

T.C. MİLLÎ EĞİTİM BAKANLIĞI

PROJE ADI

AYDIN İLİ DİDİM İLÇESİ YENİ MAHALLE 4462 ADA 1 PARSEL
DİDİM 24 DERSLİKLİ ATATÜRK İLKOKULU EK BİNA PROJESİ

S

PAFTA ADI

HESAP RAPORU

PAFTA NO

ÖLÇEK

PROJE BİLGİLERİ

İLİ	İLÇESİ	KÖY / MAHALLE		PAFTA	ADA PARSEL
AYDIN	DİDİM	YENİ MAHALLE		---	4462 -1
ARSA ALANI	BİNA OTURUM ALANI	TOPLAM İNŞAAT ALANI	KAT ADETİ	İNŞAAT TÜRÜ	DEPREM BÖLG.
---	---	--	--	BETONARME	

YÜKLENİCİ

EFLA MİMARLIK

Efla Mimarlık Mühendislik Proje Müşavirlik iç ve dış Ticaret Ltd. Şti.
Firma Adresi : Turan Güneş Bulvarı 699.sok. 4/a Çankaya/Ankara
Tel No : 0 312 441 3750
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PROJE MÜELLİFLERİ

ADI SOYADI

ÜNVANI

ODA SİCİL NO

İMZA

ADRES BİLGİLERİ

ATAKAN
ODABAŞ

İNŞ.MÜH.

86348

Efla Mimarlık Mühendislik Proje Müşavirlik
İç ve Dış Ticaret Ltd. Şti.
Firma Adresi : Turan Güneş Bulvarı 699.sok.
4/a Çankaya/Ankara
Tel No : 0 312 441 3750
Fax No : 0 312 441 37 50

İNCELEME-KONTROL

ADI SOYADI

ÜNVANI

İMZA

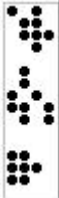
BİRİM SORUMLUSU

ONAY

Proje ve hesaplardan proje müellifi sorumludur. Müellif sözleşme ve eki teknik şartnamelere uygun olarak projeleri tamamladığını beyan ve taahhüt eder.Kusur sorumluluk süresi beş (5) yıldır. Müellif bu süre zarfında kendinden kaynaklanan kusur ve sorumlulukları idare tarafından onaylanmış olsa dahi düzeltmekle mükelleftir. Müellif iş ile ilgili yaptığı tüm işlemleri fen ve sanat kaideleri ile ulusal ve uluslararası kural ve standartlara uygun olarak yapmakla mükelleftir. Müellif işin yapımı esnasında projelerde olabilecek herhangi bir eksiklik veya değişikliğin yapılmasının gerekmesi halinde bila bedel yapmakla yükümlüdür.

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STA4-CAD
Structural Analysis FOR Computer Aided Design
VERSION 14.1
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STA MÜH. MÜŞ. LTD. ŞTİ.

STA4 programı, çok katlı betonarme yapıların 3 boyutlu analizini ve entegre olarak çizimlerini yapan entegre paket programdır. Yapının tümü için global stifnes matrisi bir defada kurulur ve bloklama tekniği ile deplasmanlar bulunur. Kat düzlemindeki plakların yatay düzlemde sonsuz rijitliğini dikkate alarak, kat düzlemindeki δ_x , δ_y , θ_z deplasmanları için her katta 3 bilinmeyen, eleman uçlarında θ_x , θ_y , δ_z deplasmanları için her noktada 3 bilinmeyen kullanarak bir noktada 6 serbestlikli betonarme yapılara özgün stifnes matrisi ile çözülmektedir. Kiriş ve kolon elemanlarında kayma deformasyonları ile burulma etkileri dikkate alınmaktadır. Denklem takımını; çözümünün hızlı olabilmesi için uç nokta numaraları, program tarafından nokta optimizasyonu ile minimum hafızada çözecek şekilde düzenlenir. Yapı+temel birlikte çözülebilmekte olup, temel stifnes matrisleri winkler hipotezi ile kurulmaktadır.

Global stifnes matrisinde dikkate alınan hususlar:

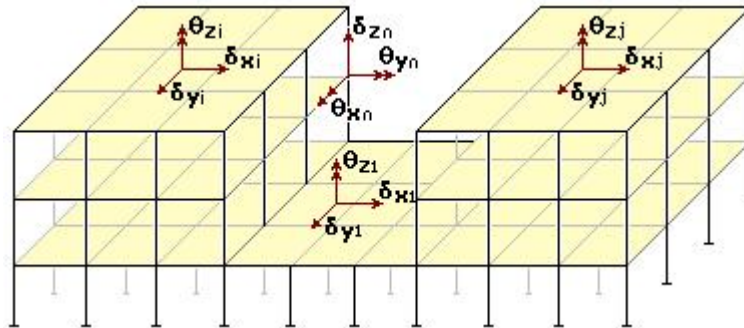
- Kirişlerin kolon ve perdelerine içindeki kısımları, sonsuz rijit alınarak yük ve rijitlik matrislerinin düzenlenmesi.
- Geniş perdelerle zayıf yönde saplanan kirişlerin, fiktif kolon kontrollü elastik ankastre olarak çözümü.
- Geniş perdelerle rijitliği yönünde saplanan kirişlerde, kayma deformasyonların dikkate alınması.
- Altındaki kolon ile statik eksenlerinde kaçıklık olan kolonlarda, eksenel yük eksantirikliğinin stifnes matrisinde dikkate alınması.
- Dinamik analizde; CQC(Complete Quadratic Combination) metodu ile %5 sönüm yüzdesine göre kuvvetlerin bulunması.

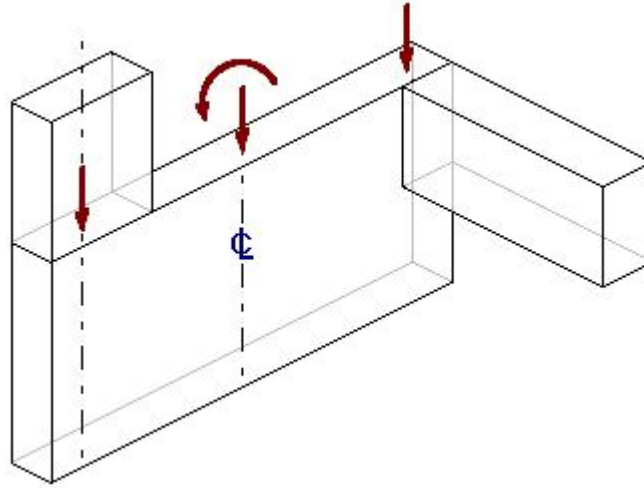
STATİK ANALİZ YÜK KOMBİNASYON NOTASYONLARI:

1. G+G+G+G+G : Genel ölü yük
2. Q+Q+Q+Q+Q : 1. Genel hareketli yük
3. Q+o+Q+o+Q : 2. Hareketli yük
4. o+Q+o+Q+o : 3. Hareketli yük
5. Q+Q+o+Q+Q : 4. Hareketli yük
6. o+Q+Q+o+Q : 5. Hareketli yük
7. Q+o+Q+Q+o : 6. Hareketli yük
8. Sz : Yatay zemin itkisi
9. Ex + %5 x ey : X yönü deprem + %5 eksantrisite
10. Ex - %5 x ey : X yönü deprem - %5 eksantrisite
11. Ey + %5 x ex : Y yönü deprem + %5 eksantrisite
12. Ey - %5 x ex : Y yönü deprem - %5 eksantrisite
13. Wx : X yönü rüzgar
14. Wy : Y yönü rüzgar
15. T : Isı yükü

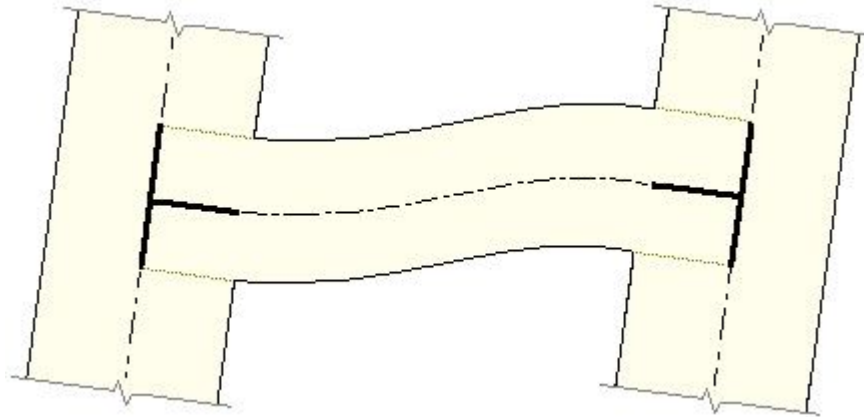
Programda kullanılan standartlar :

- 1 - TBDY 2018-Türkiye Bina Deprem Yönetmeliği
- 2 - Afet Bölgelerinde Yapılacak Yapılar Hakkında Yönetmelik (1975,1997,2007)
- 3 - TS-498 hareketli ve rüzgar yükü standardı.
- 4 - TS-500 betonarme yapıların hesap standardı.
- 5 - ACI-318, UBC-97 code
- 6 - EUROCODE-2,8 code
- 7 - SNIP-2.03.01 code

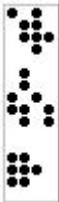
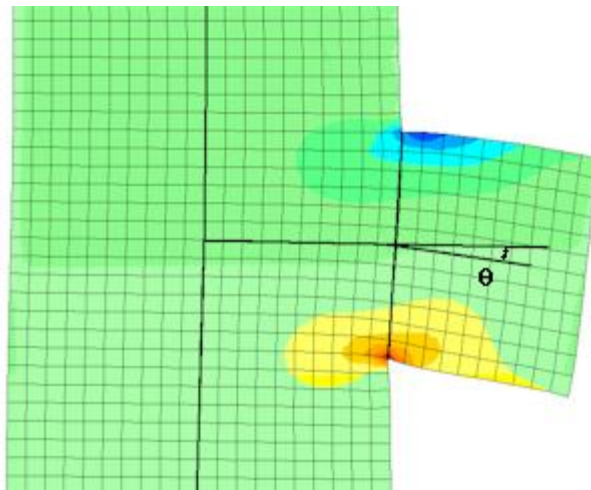


PERDE ve KOLONLARDA EKSANTRISITE

STA4-CAD Perde ve kolonlarda eksenel yük kaçıklıklarını opsiyonel olarak dikkate alır. Geometrik akslar, elemanların bilgi tanımı içindir. Statik hesaplarda, elemanların ağırlık merkezlerini dikkate alarak gerçek eksenlerle çalışır. Perdelere zayıf yönünde saplanan kirişlerin, düşey plak gibi davranan perdedeki lokal eğilme deformasyonunu sonlu elemanlara eşdeğer yöntemle elastik ankastrelik değerlerine göre opsiyonel çözüm yapılabilir.

KAYMA DEFORMASYONU ve RIJITLIK BÖLGELERİ

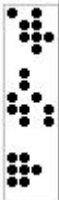
STA4-CAD Perde ve kolonlarda kayma deformasyonlarını rijitlik matrislerinde dikkate alır. Aynı şekilde rijit perdelerle bağlı kirişlerin kayma deformasyonlarında perdelerin genişlikleri oranında dikkate alarak rijitlik matrislerini oluşturur. Kirişlerin kolon kısmındaki bölgeleri, gerekse kolonların kiriş kısmındaki bölgeleri sonsuz rijit kabul edilerek moment alan teorisi ile sayısal integrasyon yapılarak gerçek rijit matrisi kurularak çözüm yapılır. Aynı şekilde kirişlerin yük matrisinde kolon kısmındaki bölgede sonsuz rijit davranışı dikkate alarak, ankastrelik tesirlerini bulur.



DÖŞEME YÜK ANALİZİ

MARLEY KAPLAMA				
Kaplama (MARLEY)	0.050 t/m ³ ×	0.003 m	:	0.000
Kaplama harcı	2.200 t/m ³ ×	0.020 m	:	0.044
Tesviye betonu	2.000 t/m ³ ×	0.030 m	:	0.060
Sıva	2.200 t/m ³ ×	0.020 m	:	0.044
TOPLAM.....				0.148
FAYANS KAPLAMA				
Kaplama (FAYANS)	2.200 t/m ³ ×	0.010 m	:	0.022
Kaplama harcı	2.200 t/m ³ ×	0.020 m	:	0.044
Tesviye betonu	2.000 t/m ³ ×	0.030 m	:	0.060
Sıva	2.200 t/m ³ ×	0.020 m	:	0.044
TOPLAM.....				0.170
KARO KAPLAMA				
Kaplama (KARO MOZAİK)	2.200 t/m ³ ×	0.020 m	:	0.044
Kaplama harcı	2.200 t/m ³ ×	0.020 m	:	0.044
Tesviye betonu	2.000 t/m ³ ×	0.040 m	:	0.080
Sıva	2.200 t/m ³ ×	0.020 m	:	0.044
TOPLAM.....				0.212
DUSUK DOSEME				
Kaplama (FAYANS)	2.200 t/m ³ ×	0.010 m	:	0.022
Kaplama harcı	2.200 t/m ³ ×	0.030 m	:	0.066
Tesviye betonu	2.000 t/m ³ ×	0.050 m	:	0.100
Sıva	2.200 t/m ³ ×	0.020 m	:	0.044
Dolgu	1.500 t/m ³ ×	0.200 m	:	0.300
TOPLAM.....				0.532
CATI DOSEMESI				
Kaplama (IZOLASYON)	0.100 t/m ³ ×	0.050 m	:	0.005
Tesviye betonu	2.000 t/m ³ ×	0.050 m	:	0.100
Sıva	2.200 t/m ³ ×	0.020 m	:	0.044
TOPLAM.....				0.149
MERDIVEN				
Kaplama (MERMER)	2.200 t/m ³ ×	0.020 m	:	0.044
Kaplama harcı	2.200 t/m ³ ×	0.020 m	:	0.044
Sıva	2.200 t/m ³ ×	0.020 m	:	0.044
Dolgu	2.200 t/m ³ ×	0.100 m	:	0.220
TOPLAM.....				0.352
SAHANLIK				
Kaplama (MERMER)	2.200 t/m ³ ×	0.020 m	:	0.044
Kaplama harcı	2.200 t/m ³ ×	0.020 m	:	0.044
Tesviye betonu	2.000 t/m ³ ×	0.030 m	:	0.060
Sıva	2.200 t/m ³ ×	0.020 m	:	0.044
TOPLAM.....				0.192

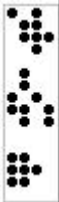
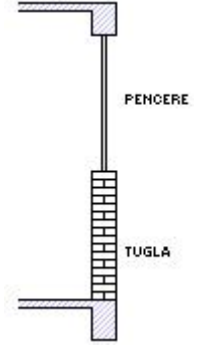
(Döşeme zatipleri, döşeme yük hesabında ilave edilecek)



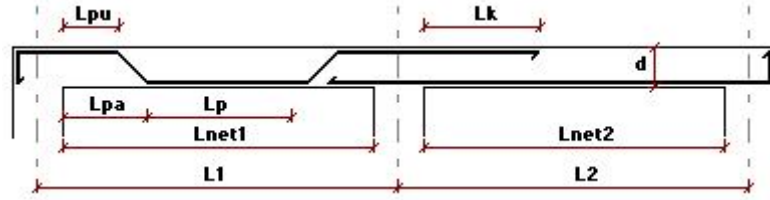
KIRIŞ YÜK ANALİZİ

19cm Tugla Duvar yükü (19 cm)	0.320 t/m ² × 2.500 m:	0.800
13cm Tugla Duvar yükü (13 cm)	0.250 t/m ² × 2.500 m:	0.625
9cm Tugla Duvar yükü (9 cm)	0.200 t/m ² × 2.500 m:	0.500
19cm Tug. pen Duvar yükü (19 cm)	0.320 t/m ² × 1.000 m:	0.320
Pencere	0.050 t/m ² × 1.500 m:	0.075
TOPLAM.....		0.395
13cm Tug. pen Duvar yükü (13 cm)	0.250 t/m ² × 1.000 m:	0.250
Pencere	0.050 t/m ² × 1.500 m:	0.075
TOPLAM.....		0.325
9cm Tug. pen. Duvar yükü (9 cm)	0.200 t/m ² × 1.000 m:	0.200
Pencere	0.050 t/m ² × 1.500 m:	0.075
TOPLAM.....		0.275
Cam Bolme Duvar yükü (2 cm)	0.050 t/m ² × 2.700 m:	0.135
25cm Tugla Duvar yükü (25 cm)	0.380 t/m ² × 2.500 m:	0.950
20cm GazBeton Duvar yükü (20 cm)	0.190 t/m ² × 2.500 m:	0.475
15cm GazBeton Duvar yükü (15 cm)	0.160 t/m ² × 2.500 m:	0.400
10cm GazBeton Duvar yükü (10 cm)	0.130 t/m ² × 2.500 m:	0.325
20cm GazB.pen. Duvar yükü (20 cm)	0.190 t/m ² × 1.000 m:	0.190
Pencere	0.050 t/m ² × 1.500 m:	0.075
TOPLAM.....		0.265
15cm GazB.pen. Duvar yükü (15 cm)	0.160 t/m ² × 1.000 m:	0.160
Pencere	0.050 t/m ² × 1.500 m:	0.075
TOPLAM.....		0.235
10cm GazB.pen. Duvar yükü (10 cm)	0.130 t/m ² × 1.000 m:	0.130
Pencere	0.050 t/m ² × 1.500 m:	0.075
TOPLAM.....		0.205
Panel duvar Duvar yükü (5 cm)	0.050 t/m ² × 2.700 m:	0.135
25cm GazBeton Duvar yükü (25 cm)	0.216 t/m ² × 2.500 m:	0.540
10cm FabrikPan. Duvar yükü (10 cm)	0.130 t/m ² × 2.500 m:	0.325
40cm Tas duvar Duvar yükü (40 cm)	1.098 t/m ² × 1.000 m:	1.098

(Kiriş zati, Kiriş yük hesabında ilave edilecek)

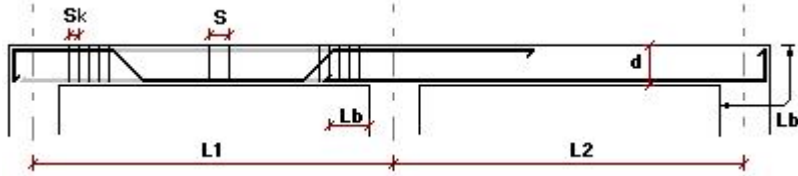


GENEL BETONARME CIZIM OPSİYONLARI



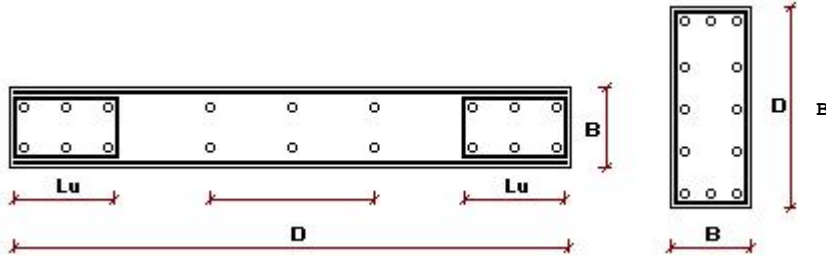
Maximum demir boyu.....cm.= 1200
 Minimum demir bindirme boyu oranı.....= $\emptyset \times 50$
 min. Lp.....= Lnet1 / 2
 Lpa.....= Lnet1 / 5
 min. Lpu.....cm.= 30
 min. Lp= d / 2
 min. Lk= Lnet2 / 4
 Pilye kayma donatısı katılım oranı.....= 0
 Genel kanca boyu= $\emptyset \times 10$
 Kiriş donatısının, kolon içindeki aderans boyu.....= $\emptyset \times 50$
 Kirişlerde sık etriye opsiyonu.....= zorunlu
 Kirişlerde Pilye opsiyonu.....= pilyesiz
 Minimum pilye açıklık oranı.....= Lnet/2
 Tek donatılarda, pilye ve düz donatı tercihi.....= düz
 Plaklarda paspayı.....cm.= 3
 Kirişlerde minimum iki demir aralığı.....cm.= 2.5

KIRIS BETONARME OPSİYONLARI



Etriye paspayı / Boyuna donatı paspayıcm.= 2.5 / 4
 Min. boyuna kesit pirsantajı= .008
 Min. çekme bölgesi TS500-2000 'e göre= 0.003
 As min= $0.8 \times f_{ctd} / f_{yd}$ alınacaktır.
 Minimum düz ve pilye donatı çapı \emptyset . = 16
 Minimum montaj donatı çapı \emptyset . = 14
 Minimum gövde donatı çapı \emptyset . = 12
 Minimum etriye donatı çapı \emptyset . = 8
 Pilye açısı.....° = 45
 Minimum gövde demirsiz kiriş yüksekliği.....cm.= 59
 Minimum düz ve montaj demir aralığıcm.= 20
 Kayma donatısı beton katılım oranı.....= .8
 Süreklilik için max. kolon genişliği.....cm.= 200
 Minimum montaj donatı oranı(% maxAs). = .25
 Maximum etriye aralığı..S.....cm.= 20
 Minimum etriye aralığı..S.....cm.= 10
 Maximum etriye aralığı. Sk.(1).....cm.= 15
 Maximum etriye aralığı. Sk.(2).....= d/4
 Maximum etriye aralığı. Sk.(3).....= $\emptyset \times 8$
 Maksimum tek etriye genişliğicm.= 40
 min.(alt As/üst As)= .5
 min.üst As=Fctd/Fyd= Hayır
 min Lb= $\emptyset \times 50$
 Alt ilaveye, düz donatıları L/4 uzatarak katılması..= Hayır
 Üst ilaveye, montaj donatı. L/4 uzatarak katılması..= Evet

KOLON-PERDE BETONARME OPSİYONLARI



KOLON ve PERDELERİN betonarme opsiyonlari :

Etriye paspayı / Boyuna donatı paspayıcm.= 3.5 / 5

Min.kolon çekme bölgesi.....= .002

Min.kolon toplam kesit= .01

Kolon eksenel yük eksantirisite etkisinin alınması..= evet

Minimum etriye aralığı.....cm.= 10

Maximum etriye aralığı.(1).....cm.= 20

Maximum etriye aralığı (2).....min.= $\emptyset \times 12$

Minimum çiroz aralığı.....min.= $\emptyset \times 25$

Minimum donatı çapı= 16

Minimum etriye çapı= 10

Perde/Kolon oranı (D/B).....= 6

Perde uzun etriyelerinde gönye.....= Gönyeli

Nervürlü etriye kanca açısı..... (90°,135°)= 135

min.Hcr yüksekliği< D x 2

max.Hcr yüksekliği>= D x 1

max.Hcr yüksekliği>= Hw/6

Min.başlık bölgesi.(Hcr).....= .002

Min.başlık bölgesi.....= .001

Min.gövde bölgesi.....= .002

Min.başlık bölgesi.....Lu= 20 cm

Min.başlık bölgesi.(Hcr).....Lu=B x 2

Min.başlık bölgesi.(Hcr).....Lu=D x .2

Min.başlık bölgesi.....Lu=B x 1

Min.başlık bölgesi.....Lu=D x .1

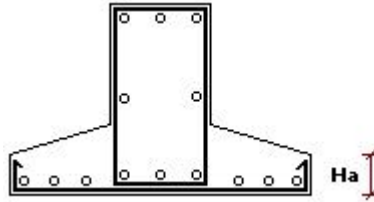
Başlık bölgesi min. donatı çapı= 20

Gövde bölgesi min. donatı çapı= 12

Perdelerde tasarım eğilme momenti.....= Evet

Kolonlarda minimum iki demir aralığı.....cm.= 4.0

TEMEL BETONARME OPSİYONLARI



Etriye paspayı / Boyuna donatı paspayıcm.= 5.5 / 7

Min. çekme bölgesi TS500-2000 (As min=0,8.fctd/fyd).= 0.003

Min. toplam kesit= .005

Minimum basınç bölgesi donatı oranı= .333

Pilye açısı.....= 60

Minimum etriye aralığı.....cm.= 10

Maximum etriye aralığı.....cm.= 20

Maximum etriye genişliği.....cm.= 60

Minimum düz ve montaj demir aralığıcm.= 20

Temelde, Kolon donatı filiz boyu.....cm.= 50

Müt. temel min. etriye çapı.....= 8

Müt. temel min. düz ve pilye çapı.....= 12

Müt. temel min. montaj çapı.....= 12

Müt. temel min. gövde çapı.....= 12

Temel min. ampatman çapı.....= 12

Ampatman kenar yüksekliği.(Ha).....cm.= 20

STA4-CAD PROGRAMI

ÇOK KATLI BETONARME YAPILARIN STATİK ve BETONARME ANALİZ PROGRAMI Ver.14.1 Rev.(29.4.2021)

PROJE İSMİ.....: 24 Derslikli Lise
 KAT ADEDİ.....: 6
 Bir kattaki KOLON SAYISI.....: 25
 X yönü aks sayısı.....: 26
 Y yönü aks sayısı.....: 23
 DEPREM YER HAREKETİ DÜZEYİ.....: DD2 50 yılda aşılma olasılığı %10
 ZEMİN SINIFI.....: ZC
 BİNA KOORDİNATI..... (ENLEM/BOYLAM) : 37.37826° / 27.26882°
 YEREL SPECTRAL İVME KATSAYISI..... S_s/S₁ : 0.846 / 0.202
 YAPI DAVRANIŞ KATSAYISI R : 4.80
 SİSTEM DAYANIM FAZLALIĞI KATSAYISI..... D : 2.5
 SPEKTRUM KAREKTERİSTİK PERİYODU..... (T_a/T_b) : 0.060 / 0.299
 HAREKETLİ YÜK KATSAYISI..... (n) : 0.6
 SIFIR RÖLATİF HAREKET YÜKSEKLİĞİ..... (m) : 4.50
 HAREKETLİ YÜK AZALTMA KATSAYISI..... (C_z) : 1.0
 ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİ. (t/m²) : 34.0
 ZEMİN YATAK KATSAYISI..... (t/m³) : 2000.0
 BETON YOĞUNLUĞU..... (t/m³) : 2.5
 GENLEŞME ISI FARKI..... (°C) : 0.0
 STATİK ANALİZ YÖNTEMİ : FRAME3D LINEER ANALİZ
 DEPREM STANDARDI : TBDY2018 CODE
 BETONARME HESAP YÖNTEMİ : TAŞIMA GÜCÜ YÖNTEMİ TS500-2000
 BETONARME KESİT DONATI HESAP YÖNTEMİ : BRÜT KESİTE GÖRE
 DEPREM HESABI YÖNTEMİ : MOD SÜPERPOZİSYONU İLE DİNAMİK ANALİZ
 TEMEL ANALİZ OPSİYONU : TEMELLER DİKKATE ALINMADAN, YAPI ANALİZİ
 Zemin gerilmesi hareketli yük azaltma değeri : 0.80
 Kolonun oturduğu kiriş tesir çarpanı : Düşey deprem analizi yapılmıştır.
 Kiriş & Kolon rijitlik bölgesi opsiyonu : Yarı Sonsuz Rijit davranış
 Kiriş uçlarında elastik ankastrelik opsiyonu : Elastik ankastre



ÇATLAMIŞ KESİT ETKİN KESİT RİJİTLİĞİ BİLGİLERİ

Elemanlar	Eğilme	Eksenel	Lokal X kesme	Lokal Y kesme
Perde	0.25	0.50	0.50	1.00
Bodrum perdesi	0.50	0.80	0.50	1.00
Döşeme	0.25	0.25	0.25	1.00
Çerçeve kirişi	0.35	1.00	1.00	1.00
Çerçeve kolonu	0.70	1.00	1.00	1.00
Bağ kirişi	0.15	1.00	1.00	1.00
Perde çubuk	0.50	1.00	0.50	0.50

BETON ve ÇELİK MALZEME BİLGİLERİ

(kg/cm²)

Yapı Elemanı		Malzeme	Elastisite Modülü E G		Beton dayanım gerilmesi	Çelik akma gerilmesi (Genel) (Etriye)		Birim Ağırlık t/m³
Plak/Nervür	E1	C35	332000	132800	350	4200	4200	2.50
HNP		C35	332000	132800	350	4200	4200	2.50
Temel		C35	332000	132800	350	4200	4200	2.50
Kiriş\Kolon	E1	C35	332000	132800	350	4200	4200	2.50

HNP : Hazır Nervürlü Plak

TAŞIMA GÜCÜ MALZEME KATSAYILARI	BETON 1.50	ÇELİK 1.15
TAŞIMA GÜCÜ YÜK KATSAYILARI	SABİT YÜK 1.40	HAREKETLİ YÜK 1.60

BETONARME HESAP YÜK KOMBİNASYONU

Ölü yük Cg	Hareketli yük Cq	Zemin Cs	Deprem ± Ce	Rüzgar ± Cw	Isı Ct
1.40	1.60	0.00	0.00	0.00	0.00
1.40	1.60	1.60	0.00	0.00	0.00
1.00	1.20	0.00	0.00	0.00	1.20
1.00	1.00	0.00	1.00	0.00	0.00
1.00	1.00	1.00	1.00	0.00	0.00
0.90	0.00	0.00	1.00	0.00	0.00
1.00	1.30	0.00	0.00	1.30	0.00
1.00	1.30	1.00	0.00	1.30	0.00
0.90	0.00	0.00	0.00	1.30	0.00
0.90	0.00	0.90	0.00	1.30	0.00

TBDY2018 Düşey Deprem Kombinasyonu : G + Q + 0.2 S + Edh + 0.3 Edz, 0.9 G + H + Edh - 0.3 Edz
CODE:TS500T.COD

ZEMİN GERİLMESİ YÜK KOMBİNASYONU $q_0 < q_t$

ZEMİN GERİLMESİ OPSİYONU:ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİ

Ölü yük Cg	Hareketli yük Cq	Zemin Cs	Deprem ± Ce	Rüzgar ± Cw	Isı Ct
1.40	1.60	0.00	0.00	0.00	0.00
1.40	1.60	1.60	0.00	0.00	0.00
1.00	1.20	0.00	0.00	0.00	1.20
1.00	1.00	0.00	1.00	0.00	0.00
1.00	1.00	1.00	1.00	0.00	0.00
0.90	0.00	0.00	1.00	0.00	0.00
1.00	1.30	0.00	0.00	1.30	0.00
1.00	1.30	1.00	0.00	1.30	0.00
0.90	0.00	0.00	0.00	1.30	0.00
0.90	0.00	0.90	0.00	1.30	0.00

ZEMİN GERİLMESİ HAREKETLİ YÜK AZALTMA DEĞERLERİ

Kat	1	2	3	4	5	6	7	8	9	10
Eksiltme %				20	40	60	80	80	90	40

DUVAR MALZEME BİLGİLERİ

Malzeme no	E (kg/cm ²)	fbd (kg/cm ²)	fbtd (kg/cm ²)
B1	10000	10.00	1.00
B2	10000	15.00	1.50
B3	10000	20.00	2.00
B4	20000	30.00	3.00
B5	30000	30.00	3.00

RÜZGAR YÜKÜ VE KATSAYILARI

RÜZGAR YÜKÜ BASINÇ KATSAYISI : 0.8

RÜZGAR YÜKÜ EMME KATSAYISI : 0.4

Yükseklik bölgesi	H	Qw
1. bölge	8.00	0.05
2. bölge	20.00	0.08
3. bölge	100.00	0.11

YAPI AKS BİLGİLERİ

X yönü aks bilgileri

no	isim	Ax	Bx
1	1	0.00	0.00
2	2	0.00	3.00
3	3	0.00	8.80
4	4	0.00	14.60
5	5	0.00	20.40
6	6	0.00	23.40
7	7	0.00	28.80
8	8	0.00	35.80
9		0.00	30.50
10		0.00	34.10
11		0.00	18.75
12		0.00	16.65
13		0.00	10.85
14		0.00	36.80
15		0.00	27.80
16		0.00	21.60
17		0.00	2.00
18		0.00	-1.00
19		0.00	13.10
20		0.00	1.55
21		0.00	1.65
22		0.00	-0.10
23		0.00	26.05
24		0.00	26.15
25		0.00	-0.80
26		0.00	36.60

Y yönü aks bilgileri

no	isim	Ay	By
1	A'	0.00	-1.80
2	A	0.00	0.00
3	B	0.00	1.70
4	C	0.00	3.10
5	D	0.00	5.86
6	E	0.00	7.46
7	F	0.00	8.40
8	G	0.00	11.60
9	H	0.00	18.00
10	I	0.00	20.00
11		0.00	6.60
12		0.00	-1.00
13		0.00	21.00
14		0.00	19.50
15		0.00	19.00
16		0.00	0.70
17		0.00	18.50
18		0.00	16.20
19		0.00	5.16
20	J	0.00	6.11
21		0.00	1.50
22		0.00	1.60
23		0.00	20.80

1. KAT KOLONLARI AKS BİLGİLERİ

Kolon no	X aksı	Y aksı	dx	dy	alt yük.
101	1X	3Y	0.0	0.0	0.00
103	8X	2Y	0.0	0.0	0.00
105	12X	7Y	5.0	0.1	0.00
107	11X	8Y	-5.0	-0.1	0.00
109	2X	15Y	-0.1	100.0	0.00
111	4X	15Y	-0.1	100.0	0.00
113	6X	9Y	0.1	-0.1	0.00
115	8X	15Y	0.1	100.0	0.00
117	8X	8Y	0.1	-0.1	0.00
119	6X	8Y	0.1	-0.1	0.00
121	4X	2Y	-10.0	-0.1	0.00
123	3X	8Y	-10.0	-0.1	0.00
125	1X	8Y	-0.1	-0.1	0.00

Kolon no	X aksı	Y aksı	dx	dy	alt yük.
102	5X	5Y	0.0	0.0	0.00
104	13X	7Y	5.0	0.1	0.00
106	4X	8Y	50.0	-0.1	0.00
108	1X	9Y	-0.1	0.1	0.00
110	3X	15Y	-0.1	100.0	0.00
112	5X	15Y	-10.0	100.0	0.00
114	7X	15Y	-0.1	100.0	0.00
116	8X	5Y	0.1	-0.1	0.00
118	7X	8Y	-0.1	-0.1	0.00
120	5X	2Y	-10.0	-0.1	0.00
122	3X	2Y	-10.0	-0.1	0.00
124	2X	8Y	-10.0	-0.1	0.00

KAT DIYAFRAMLARI

Kat: 6	6
Kat: 5	5
Kat: 4	4
Kat: 3	3
Kat: 2	2
Kat: 1	1

DEPREM RAPORU

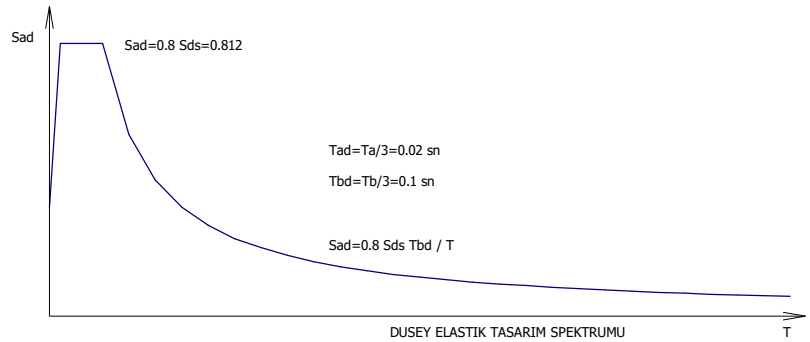
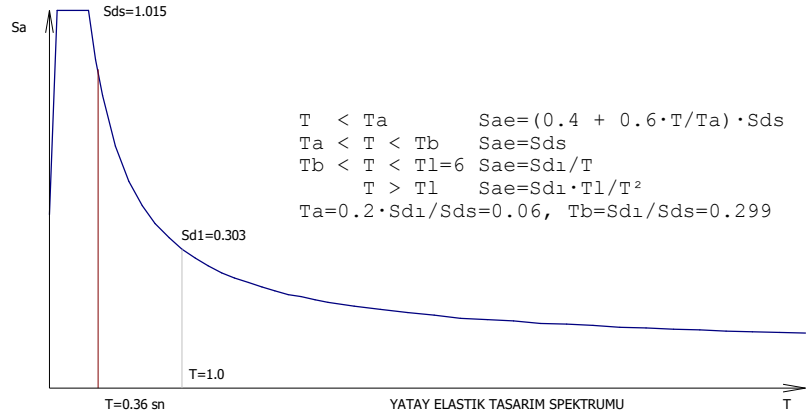
DEPREM STANDARDI : TBDY2018 CODE
 DEPREM ANALİZİ : MOD SUPERPOZISYONU YONTEMIYLE LINEER ANALİZ
 DEPREM YER HAREKETİ DÜZEYİ : DD2 50 yılda aşılma olasılığı %10
 ZEMİN SINIFI : ZC
 BİNA KOORDİNATI (ENLEM/BOYLAM) : 37.37826° / 27.26882°
 YEREL SPECTRAL İVME KATSAYISI S_s/S_1 : 0.846 / 0.202
 TASARIM SPECTRAL İVME KATSAYISI S_{ds}/S_{d1} : 1.015 / 0.303 DD2
 YAPI DAVRANIŞ KATSAYISI R : 4.80 YS. ÇERÇEVELİ ve BOŞLUKSUZ PERDELİ YAPILAR
 SİSTEM DAYANIM FAZLALIĞI KATSAYISI D : 2.5 - A15
 DEPREM TASARIM SINIFI DTS : 1a
 BİNA YÜKSEKLİK SINIFI BYS : 6 $H_n=16.0m$
 BİNA KULLANIM SINIFI BKS : 1 $I = 1.5$
 Modal Analiz min. deprem yükü oranı β : 0.9
 Deprem yükü eksantirisitesi : 0.050
 PERFORMANS HEDEFLERİ :
 DD2 } Normal Performans Hedefi : KH (Kontrollü Hasar)
 Değerlendirme/Tasarım : DGT (Dayanıma Göre Tasarım)

DİYAFRAM SAYISI : 6
 Diyafram tanımı : KAT(diyafram no)

DİNAMİK ANALİZ BİLGİLERİ

TASARIM SPECTURUM BİLGİSİ (TBDY 2018 SPEKTRUM)

T (s)	Sa
0.00	0.406
0.06	1.015
0.30	1.015
0.35	0.869
0.40	0.760
0.50	0.608
0.60	0.506
0.70	0.434
0.80	0.379
0.90	0.337
1.00	0.303
1.10	0.276
1.20	0.253
1.30	0.233
1.40	0.217
1.50	0.202
1.60	0.190
1.70	0.178
1.80	0.168
1.90	0.160
2.00	0.152
2.10	0.144
2.30	0.132
2.50	0.121
2.70	0.112
2.90	0.105
3.10	0.098
3.30	0.092
3.50	0.087
3.70	0.082
3.90	0.078
4.10	0.074
4.30	0.070
4.50	0.067
4.70	0.064
4.90	0.062
5.10	0.059
5.30	0.057
5.50	0.055
5.70	0.053



$R_a(T)_x = 3.200$ $R_a(T)_y = 3.200$ $T > T_b \Rightarrow R_a(T) = R / I$

MODAL ANALİZ - YAPI PERİYOD ve VEKTORLERİ

Mod ω T yön	1.mod 17.36 0.3620 x	2.mod 17.71 0.3548 y	3.mod 29.58 0.2124 b	4.mod 70.31 0.0894 x	5.mod 74.63 0.0842 y	6.mod 103.09 0.0609 b	7.mod 137.91 0.0456 x	8.mod 147.82 0.0425 y	9.mod 180.98 0.0347 b
1/1x	0.00403	-0.00089	-0.00166	0.02109	-0.00306	-0.00896	0.04208	-0.01049	0.01280
2/2x	0.01608	-0.00347	-0.00213	0.05118	-0.00629	-0.00878	0.04725	-0.00568	-0.00442
3/3x	0.03204	-0.00686	-0.00257	0.05209	-0.00524	-0.00740	-0.01713	0.00667	-0.02539
4/4x	0.04947	-0.01050	-0.00418	0.01648	-0.00058	-0.00798	-0.04651	0.00182	0.01675
5/5x	0.06642	-0.01396	-0.00845	-0.03732	0.00386	-0.00126	0.00874	-0.00755	0.03436
6/6x	0.07954	-0.01680	-0.04268	-0.08211	0.00268	0.06185	0.08667	0.01724	-0.11939
1/1y	0.00105	0.00492	-0.00142	0.00231	0.02706	-0.00689	0.00470	0.04843	-0.00525
2/2y	0.00318	0.01641	-0.00370	0.00387	0.05248	-0.00935	0.00516	0.03891	0.00414
3/3y	0.00611	0.03203	-0.00535	0.00473	0.05040	-0.00022	0.00262	-0.02074	0.01209
4/4y	0.00945	0.04945	-0.00613	0.00388	0.01595	0.01129	-0.00428	-0.04225	-0.00579
5/5y	0.01349	0.06691	-0.00257	0.00000	-0.03516	0.01189	-0.00789	0.00564	-0.01541
6/6y	0.02543	0.08473	0.04601	-0.02455	-0.08901	-0.05984	0.02915	0.09380	0.04713
1/1b	-0.00002	-0.00003	0.00044	0.00013	-0.00012	0.00194	0.00072	-0.00004	0.00306
2/2b	0.00019	-0.00009	0.00159	0.00098	-0.00006	0.00434	0.00122	0.00072	0.00306
3/3b	0.00046	-0.00015	0.00303	0.00105	0.00031	0.00415	-0.00056	0.00117	-0.00101
4/4b	0.00073	-0.00018	0.00446	0.00005	0.00078	0.00090	-0.00100	-0.00018	-0.00204
5/5b	0.00097	-0.00020	0.00575	-0.00140	0.00103	-0.00353	0.00136	-0.00198	-0.00033
6/6b	0.00098	-0.00021	0.00579	-0.00174	0.00120	-0.00335	0.00286	-0.00272	-0.00443
Mxr%	61.731	2.783	1.384	19.985	0.299	1.245	6.994	0.353	0.177
Myr%	2.681	63.711	0.228	0.236	22.855	0.122	0.129	6.670	0.000
Mbr%	1.421	0.118	62.577	0.298	0.929	22.078	0.909	0.002	3.298

Mod ω T yön	10.mod 190.53 0.0330 x	11.mod 202.77 0.0310 x	12.mod 232.19 0.0271 b	13.mod 236.57 0.0266 x	14.mod 242.22 0.0259 b	15.mod 285.99 0.0220 y	16.mod 307.52 0.0204 b	17.mod 347.10 0.0181 b	18.mod 373.86 0.0168 b
1/1x	0.04261	0.03914	0.00952	0.03266	-0.01017	0.00523	-0.01719	-0.00648	-0.01003
2/2x	-0.00361	-0.02080	-0.02766	-0.04290	0.00069	-0.01142	0.01546	0.01007	0.02094
3/3x	-0.03205	-0.01094	0.02119	0.04113	0.01391	0.01536	0.00984	-0.00608	-0.02345
4/4x	0.01653	0.02905	0.01819	-0.03609	-0.01228	-0.01333	-0.02346	-0.00272	0.01859
5/5x	0.01163	-0.03033	-0.03608	0.02631	0.00425	0.00731	0.01485	0.00989	-0.01056
6/6x	-0.03908	0.04950	0.05789	-0.03220	-0.00139	-0.00589	-0.00878	-0.02244	0.01013
1/1y	0.02806	-0.03214	0.02315	-0.00427	-0.03677	0.02579	0.00666	0.00290	0.00462
2/2y	0.00120	0.01167	-0.00969	0.00708	0.04160	-0.04937	-0.00294	-0.00381	-0.00874
3/3y	-0.02968	0.02533	-0.01433	-0.00953	-0.00023	0.05532	-0.00632	0.00250	0.00984
4/4y	-0.00016	-0.01803	0.01627	0.01084	-0.04243	-0.04264	0.01183	0.00128	-0.00810
5/5y	0.03869	-0.01470	-0.00063	-0.00807	0.04662	0.02169	-0.00983	-0.00504	0.00562
6/6y	-0.08913	0.05715	-0.01705	0.00875	-0.06367	-0.01594	0.01226	0.01197	-0.00755
1/1b	-0.00024	0.00073	0.00387	0.00024	0.00186	0.00005	0.00399	0.00139	0.00215
2/2b	-0.00119	-0.00151	0.00092	-0.00185	-0.00003	0.00012	-0.00277	-0.00183	-0.00377
3/3b	-0.00004	0.00022	-0.00227	0.00292	-0.00106	-0.00054	-0.00163	0.00101	0.00421
4/4b	0.00201	0.00231	-0.00151	-0.00159	-0.00040	0.00053	0.00389	0.00041	-0.00325
5/5b	-0.00050	-0.00207	0.00249	-0.00001	0.00138	-0.00010	-0.00176	-0.00219	0.00178
6/6b	-0.00117	-0.00216	0.00907	-0.00236	0.00453	-0.00044	-0.01732	0.04808	-0.01106
Mxr%	2.499	1.595	0.021	0.682	0.087	0.009	0.124	0.011	0.022
Myr%	0.953	0.959	0.553	0.009	0.625	0.214	0.041	0.004	0.008
Mbr%	0.000	0.002	5.048	0.024	1.219	0.002	1.664	0.075	0.335

$\Sigma=100.0$
 $\Sigma=100.0$

$M_r = \sum (m_i \cdot \Phi_{xir}^2 + m_i \cdot \Phi_{yir}^2 + m_{\theta i} \cdot \Phi_{\theta ir}^2)$
 $M_{xr} = \sum [(\sum m \cdot \Phi)^2 / M_r] = \%100.00 > \%95.00$ Dinamik kütle oranı yeterli.
 $M_{yr} = \sum [(\sum m \cdot \Phi)^2 / M_r] = \%100.00 > \%95.00$ Dinamik kütle oranı yeterli.

EŞDEĞER DEPREM HESABI 1. DOĞAL TİTREŞİM PERİYODUNUN KONTROLÜ

$H_n = 16.0m$ $C_{tx} = 0.07$ $C_{ty} = 0.07$

$T_{1x} = C_{tx} \cdot H_n = 0.560 s., T_x = 0.362 s. < 1.4 \times 0.56 s. >> T_{x1} = 0.362 s.$

$T_{1y} = C_{ty} \cdot H_n = 0.560 s., T_y = 0.355 s. < 1.4 \times 0.56 s. >> T_{y1} = 0.355 s.$

YAPI BURULMA KÜTLE ATALET MOMENTİ $J_{mass} = (I_x + I_y) / A$

Kat	A (m ²)	I _x (m ⁴)	I _y (m ⁴)	X _g (m)	Y _g (m)	J _{mass} (m ²)
6	97.44	1092.63	572.95	24.60	5.80	17.09
5	682.14	21731.88	72640.86	17.98	9.87	138.35
4	681.51	21698.75	72492.57	17.98	9.87	138.21
3	681.51	21698.75	72492.57	17.98	9.87	138.21
2	681.51	21698.75	72492.57	17.98	9.87	138.21
1	681.51	21698.75	72492.57	17.98	9.87	138.21

KAT KÜTLESİ ve RİJİTLİK MERKEZİ (t)

Kat (dyf)	H (m)	Wg	Wq	n	R Rx/Ry	D Dx/Dy	Xg (m)	Xr (m)	Yg (m)	Yr (m)	Σ Wk
6	25.00	179.23	33.60	0.60	4.8	2.5	24.68	20.12	5.15	4.78	199.388
5	20.50	774.80	230.58	0.60	4.8	2.5	18.29	18.90	9.12	5.02	913.149
4	16.50	931.79	231.42	0.60	4.8	2.5	17.69	19.03	9.33	5.14	1070.643
3	12.50	939.08	234.83	0.60	4.8	2.5	17.67	19.24	9.30	5.43	1079.982
2	8.50	939.31	234.93	0.60	4.8	2.5	17.67	19.70	9.30	6.35	1080.263
1	4.50	1163.56	233.09	0.60	1.72	1.5	18.20	20.46	10.28	9.74	1303.413

$$\Sigma W_t = 5646.838$$

EŞDEĞER DEPREM FORMÜLÜ

$$F_{di} = (V_t - F_t) \frac{W_i \cdot H_i}{\Sigma W_i \cdot H_i}$$

DEPREM KUVVETİ (t)

Deprem tepe yükü $F_{tx} = 42.60$ $F_{ty} = 43.46$ (t)

X YÖNÜ					Y YÖNÜ			
Kat no	Modal Analiz	Eşdeğer dep.yön.	Deprem yükü	Kat tipi	Modal Analiz	Eşdeğer dep.yön.	Deprem yükü	Kat tipi
6	110.755	108.048	115.371	UST KAT	125.104	110.243	127.534	UST KAT
5	331.909	393.886	345.744	UST KAT	341.080	401.888	347.704	UST KAT
4	233.663	315.620	243.403	NORMAL	239.131	322.032	243.776	NORMAL
3	171.874	212.249	179.039	NORMAL	175.681	216.561	179.093	NORMAL
2	133.249	106.152	138.803	NORMAL	142.258	108.309	145.021	NORMAL
1	254.389	633.605	570.244	BODRUM	317.798	646.476	581.828	BODRUM
Σ	1235.839	1769.561	1592.605	GENEL	1341.053	1805.508	1624.957	GENEL
	254.389	633.605	570.244	BODRUM	317.798	646.476	581.828	BODRUM
	981.450	1135.956	1022.360	NORMAL	1023.255	1159.032	1043.129	NORMAL

$$V_{tx} = 981.45 > 0.04 \cdot I \cdot S_{ds} \cdot W = 264.51 \quad \text{TBDY2018 4.7.1.1}$$

$$V_{ty} = 1023.26 > 0.04 \cdot I \cdot S_{ds} \cdot W = 264.51$$

$$X \text{ Deprem kontrol: } 0.90 \times 1135.956 = 1022.360 > 981.450 >>> 1022.360$$

$$Y \text{ Deprem kontrol: } 0.90 \times 1159.032 = 1043.129 > 1023.255 >>> 1043.129$$

TBDY-2018 BODRUMLU YAPI PERİYOD KONTROLU (TBDY 3.3.1.1)

Mod	1.mod	2.mod	3.mod	4.mod	5.mod	6.mod
ω	18.79	19.63	32.32	80.17	90.24	120.51
T	0.3344	0.3200	0.1944	0.0784	0.0696	0.0521
Mxr%	73.463	0.715	2.178	16.750	0.327	1.290
Myr%	0.521	74.873	0.441	0.211	18.574	0.272

$$T_x \text{ tum} = 0.362s < 1.1 \times T_x \text{ ust}(0.334s) = 0.368s \quad \checkmark$$

$$T_y \text{ tum} = 0.355s < 1.1 \times T_y \text{ ust}(0.320s) = 0.352s \quad \checkmark$$

TBDY-2018 YAPI Ralt ve Dalt KATSAYILARININ BULUNMASI (TBDY 4.3.6.1)

Eşdeğer deprem:

$$S_a(T_{x1}) = S_a(0.362) = 0.837, \quad S_a(T_{y1}) = S_a(0.355) = 0.854$$

$$V_{\text{tum}X} = V_{\text{ust}X} + S_a(T_{x1}) \times W_b / 1.5 = 1022.360 + 1303.413 \times 0.837 / 1.5 = 1749.587$$

$$V_{\text{tum}Y} = V_{\text{ust}Y} + S_a(T_{y1}) \times W_b / 1.5 = 1043.129 + 1303.413 \times 0.854 / 1.5 = 1785.129$$

$$X \text{ yönü } v_{\text{ust}X} = V_{\text{ust}X} / V_{\text{tum}X} = 1135.956 / 1863.183 = 0.610, \quad Y \text{ yönü } v_{\text{ust}Y} = V_{\text{ust}Y} / V_{\text{tum}Y} = 1159.032 / 1901.032 = 0.610$$

$$v_{\text{xalt}} = (1 - v_{\text{xust}}) \times R_a / 1.5 = 1.249, \quad v_{\text{yalt}} = (1 - v_{\text{yust}}) \times R_a / 1.5 = 1.249$$

$$v_x = v_{\text{xust}} + v_{\text{xalt}} = 1.859, \quad v_y = v_{\text{yust}} + v_{\text{yalt}} = 1.859$$

$$D_{\text{alt}X} = (0.6 \times v_{\text{xust}} \times D_{\text{ust}} + v_{\text{xalt}} \times 1.5) / v_x = 1.500$$

$$D_{\text{alt}Y} = (0.6 \times v_{\text{yust}} \times D_{\text{ust}} + v_{\text{yalt}} \times 1.5) / v_y = 1.500$$

$$R_{\text{alt}X} = R_a / v_x = 2.582, \quad R_{\text{alt}Y} = R_a / v_y = 2.582$$

Modal analiz:

$$v_{\text{ust}X} = 0, \quad v_{\text{ust}Y} = 0 \text{ alındı.}$$

$$D_{\text{alt}X} = (0.6 \times v_{\text{xust}} \times D_{\text{ust}} + v_{\text{xalt}} \times 1.5) / v_x = 1.500$$

$$D_{\text{alt}Y} = (0.6 \times v_{\text{yust}} \times D_{\text{ust}} + v_{\text{yalt}} \times 1.5) / v_y = 1.500$$

$$R_{\text{alt}X} = R_a / v_x = 1.500, \quad R_{\text{alt}Y} = R_a / v_y = 1.500$$

Rüzgar kuvvetleri (t)

Kat (dyf)	X-yönü F	X-yönü e _y m	Y-yönü F	Y-yönü e _x m
6	6.890	24.600	4.990	5.800
5	7.680	17.900	13.747	10.000
4	7.680	17.900	13.747	10.000
3	4.800	17.900	8.592	10.000
2	4.800	17.900	8.592	10.000
1	0.000	17.900	0.000	10.000

Kat Deprem deplasmanları

Kat (dyf)	9. yükleme		10. yükleme		11. yükleme		12. yükleme	
	δx (m)	θz (rad)	δx (m)	θz (rad)	δy (m)	θz (rad)	δy (m)	θz (rad)
6	0.0153667	0.0001480	0.0154250	0.0000808	-0.016555	-0.000067	-0.016295	0.0000439
5	0.0120904	0.0001434	0.0121183	0.0000799	-0.012666	-0.000066	-0.012686	0.0000416
4	0.0089996	0.0001089	0.0090196	0.0000597	-0.009366	-0.000045	-0.009376	0.0000391
3	0.0059331	0.0000695	0.0059458	0.0000358	-0.006141	-0.000025	-0.006143	0.0000328
2	0.0031517	0.0000292	0.0031559	0.0000108	-0.003260	-0.000008	-0.003257	0.0000237
1	0.0009582	-0.000002	0.0009587	-0.000008	-0.001106	0.0000018	-0.001106	0.0000121

Deprem yapı salınımı: x= 0.00061 y= 0.00066

DEPREM PERDELERİ TABAN MOMENT KONTROLU

Kat deprem momenti (tm)

Kat	H (m)	Fx	Fx . H	H (m)	Fy	Fy . H
6	20.50	115.37	2365.12	20.50	127.53	2614.44
5	16.00	345.74	5531.90	16.00	347.70	5563.27
4	12.00	243.40	2920.84	12.00	243.78	2925.31
3	8.00	179.04	1432.31	8.00	179.09	1432.75
2	4.00	138.80	555.21	4.00	145.02	580.09
1	BODRUM	-	-	BODRUM	-	-
		1022.36	12805.38		1043.13	13115.86

Perde taban momenti (tm)

M : Perde ve Panel deprem momenti

 ΣM_k : Perdelerde; bağlı olduğu kirişlerin deprem momentlerinin toplamı

Panellerde ise; başlık kolonlarından oluşan deprem momentlerinin toplamıdır.

Perde	Mx	$\Sigma M_{xk} =$	ΣM_{xr}	M/Mo<1/3	My	$\Sigma M_{yk} =$	ΣM_{yr}	M/Mo<1/3
S204	39.75	87.76	127.50	0.010 ✓	-	-	-	-
S205	40.51	98.18	138.69	0.011 ✓	-	-	-	-
S206	44.13	96.25	140.38	0.011 ✓	-	-	-	-
S207	44.84	112.86	157.70	0.012 ✓	-	-	-	-
S208	-	-	-	-	134.90	32.82	167.72	0.013 ✓
S209	-	-	-	-	36.85	29.79	66.64	0.005 ✓
S210	-	-	-	-	39.97	31.53	71.50	0.005 ✓
S211	-	-	-	-	43.43	30.38	73.80	0.006 ✓
S212	-	-	-	-	47.10	32.31	79.41	0.006 ✓
S214	-	-	-	-	52.74	37.00	89.74	0.007 ✓
S215	-	-	-	-	188.50	31.26	219.75	0.017 ✓
S201	1236.43	58.50	1294.93	0.101 ✓	3022.67	123.75	3146.42	0.240 ✓
S202	7988.18	240.59	8228.77	0.643 ✗	6759.87	330.24	7090.11	0.541 ✗
S203	1627.10	118.64	1745.74	0.136 ✓	1327.41	59.70	1387.11	0.106 ✓

TOPLAM

11833.71

12392.21

Perde taban moment oranı :

X yönü $\alpha_m = 11833.71 / 12805.38 = 0.92$ Y yönü $\alpha_m = 12392.21 / 13115.86 = 0.95$ Deprem perde taban devrilme oranı $M_{dev}/M_o = 0.92$

Bina Taşıyıcı Sistem seçimi : Süneklilik düzeyi Yüksek taşıyıcı sistem

 $H_n = H - H_{bodrum} = 20.5 - 4.5 = 16.0m$ >> $BYS=6$ TBDY2018 4.3.4.6 $M_{dev}/M_o = 0.92 \geq 0.75$ koşulu sağlanmaktadır. $BYS=6 \geq 2$ ✓

Süneklilik düzeyi Karma taşıyıcı sistem yapabilirsiniz

Kenar aks perdeleri için devrilme moment oranları

Blk/Yon	Perde	Mdev	Σ Mdev / Σ Mo
1 Y	S208+S209+S201	167.72+66.64+3146.42	0.258 > 1/6 ✓
1 Y	S215+S203	219.75+1387.11	0.123 < 1/6 ✗
1 X	S202+S203	8228.77+1745.74	0.779 > 1/6 ✓

R => 4/5 R alınmıştır. ✓

BOŞLUKLU PERDE TABAN MOMENT KONTROLÜ

Perde grubu	Perdeler	Mdev	Nv . C	Nv.C/Mdev
1 X	S205+S202+S203	9655.79	496.29	0.049 < 1/3 ✗

Boşluklu perdeler, Nv.C/Mdev < 1/3 koşulu sağlanmamıştır ✗

DEPREMDE YAPI DÜZENSİZLİKLERİNİN KONTROLÜ

A1,B2 düzensizliklerinin kontrolü

 $d_i = R/I \cdot \Delta$, K=1, $T_x = 0.362s$, $T_y = 0.355s$ $\lambda_x = S_a(T_x, DD3) / S_a(T_x, DD2) = 0.364 / 0.837 = 0.435$ $\lambda_y = S_a(T_y, DD3) / S_a(T_y, DD2) = 0.372 / 0.854 = 0.435$ $X \max(d_i/h_i) \leq 0.008 K/\lambda = 0.0184$ $Y \max(d_i/h_i) \leq 0.008 K/\lambda = 0.0184$

Ch=0.5, D=2.50, R=4.80

 $\theta_{ni} = [ort(\Delta_i) \cdot \Sigma w_k] / (V_i \cdot h_i) \leq 0.12 \cdot D / (Ch \cdot R) \Rightarrow \max \theta_{ni} = 0.125$

1. kat X düst = 0.0009582 + -0.0000029 × (.0 - 9.74) = 0.0009863 (P105)

1. kat X dalt = 0.0009582 + -0.0000029 × (20.0 - 9.74) = 0.0009286 (P109)

2. kat X düst = 0.0031517 + 0.0000292 × (.25 - 6.35) - 0.0009856 = 0.0019879 (S220)

2. kat X dalt = 0.0031517 + 0.0000292 × (18.85 - 6.35) - 0.0009319 = 0.0025847 (S209)

X YÖNÜ (+%5)

Kat	ΔX düst (m)	ΔX dalt (m)	ΔX ort	nbi	nki	$R/I \cdot \Delta x/h$	θ_i	kat tipi
6	0.0032900	0.0033442	0.0033171	1.01	0.00	0.00238 ✓	0.00127 ✓	Normal kat
5	0.0029388	0.0035790	0.0032589	1.10	1.11	0.00286 ✓	0.00197 ✓	Normal kat
4	0.0028941	0.0036270	0.0032606	1.11	1.00	0.00290 ✓	0.00253 ✓	Normal kat
3	0.0025994	0.0033499	0.0029747	1.13	0.91	0.00268 ✓	0.00275 ✓	Normal kat
2	0.0019879	0.0025847	0.0022863	1.13	0.77	0.00207 ✓	0.00243 ✓	Normal kat
1	0.0009863	0.0009286	0.0009574	1.03	0.00	0.00070 ✓	0.00000 ✓	Bodrum kat

X YÖNÜ (-%5)

Kat	ΔX düst (m)	ΔX dalt (m)	ΔX ort	nbi	nki	$R/I \cdot \Delta x/h$	θ_i	kat tipi
6	0.0033219	0.0033328	0.0033274	1.00	0.00	0.00237 ✓	0.00128 ✓	Normal kat
5	0.0030091	0.0033842	0.0031967	1.06	1.08	0.00271 ✓	0.00193 ✓	Normal kat
4	0.0029673	0.0034124	0.0031898	1.07	1.00	0.00273 ✓	0.00247 ✓	Normal kat
3	0.0026705	0.0031350	0.0029028	1.08	0.91	0.00251 ✓	0.00268 ✓	Normal kat
2	0.0020477	0.0024126	0.0022302	1.08	0.77	0.00193 ✓	0.00237 ✓	Normal kat
1	0.0010443	0.0008687	0.0009565	1.09	0.00	0.00074 ✓	0.00000 ✓	Bodrum kat

Y YÖNÜ (+%5)

Kat	ΔY dsol (m)	ΔY dsağ (m)	ΔY ort	nbi	nki	$R/I \cdot \Delta y/h$	θ_i	kat tipi
6	0.0038072	0.0038146	0.0038109	1.00	0.00	0.00271 ✓	0.00132 ✓	Normal kat
5	0.0029016	0.0036651	0.0032834	1.12	0.97	0.00293 ✓	0.00192 ✓	Normal kat
4	0.0028522	0.0035642	0.0032082	1.11	0.98	0.00285 ✓	0.00244 ✓	Normal kat
3	0.0025572	0.0031651	0.0028612	1.11	0.89	0.00253 ✓	0.00260 ✓	Normal kat
2	0.0019576	0.0023124	0.0021350	1.08	0.75	0.00185 ✓	0.00222 ✓	Normal kat
1	0.0011432	0.0010792	0.0011112	1.03	0.00	0.00081 ✓	0.00000 ✓	Bodrum kat

Y YÖNÜ (-%5)

Kat	ΔY dsol (m)	ΔY dsağ (m)	ΔY ort	nbi	nki	$R/I \cdot \Delta y/h$	θ_i	kat tipi
6	0.0036613	0.0036393	0.0036503	1.00	0.00	0.00260 ✓	0.00127 ✓	Normal kat
5	0.0033512	0.0032622	0.0033067	1.01	1.02	0.00268 ✓	0.00194 ✓	Normal kat
4	0.0033443	0.0031234	0.0032338	1.03	0.98	0.00268 ✓	0.00245 ✓	Normal kat
3	0.0030506	0.0027246	0.0028876	1.06	0.89	0.00244 ✓	0.00262 ✓	Normal kat
2	0.0023665	0.0019575	0.0021620	1.09	0.75	0.00189 ✓	0.00225 ✓	Normal kat
1	0.0013551	0.0009202	0.0011376	1.19	0.00	0.00096 ✓	0.00000 ✓	Bodrum kat

TBDY2018 4.9.3.1 Maksimum Deprem deplasmanı ve minimum deprem derzi (mm)
 $\alpha=0.5$ (R/I)= 1.600

Kat	Hi (m)	uiX	uiY	min. diX	min. diY
6	25.000	15.4	16.6	100.0	100.0
5	20.500	12.1	12.7	80.0	80.0
4	16.500	9.0	9.4	70.0	70.0
3	12.500	5.9	6.1	60.0	60.0
2	8.500	3.2	3.3	40.0	40.0
1	4.500	1.0	1.1	30.0	30.0

Hi<=6m min.di=30mm
 Hi> 6m min.di=30+10·[(Hi-6)/3] mm

TBDY 3.6.2.1 A1 burulma düzensizliği:

nbi=1.131 <1.2 , modal analizle çözülmüştür ✓

TBDY 3.6.2.1 B2 düzensizliği sağlanmaktadır. ✓

TBDY 4.9.1.3 koşulu sağlanmaktadır. Xmax(di/hi)= 0.0029<0.0184 ✓ Ymax(di/hi)= 0.0029<0.0184 ✓

TBDY 4.36 koşulu sağlanmaktadır. max θ_i =0.003 < 0.125 ✓

B1-Düşey doğrultudaki düzensizliklerinin kontrolü

Kat	Aw	Agx	Agy	Akx	Aky	Σ Aex	Σ Aey	ncix	nciy	AÇIKLAMA
6	0.75	9.00	8.37	2.17	0.98	10.08	9.27	1.00	1.00	üst kat ✓
5	2.75	20.16	22.41	18.97	13.05	25.76	27.12	2.56	2.93	Düzenli ✓
4	2.75	20.16	22.41	18.97	13.05	25.76	27.12	1.00	1.00	Düzenli ✓
3	2.75	20.16	22.41	18.97	13.05	25.76	27.12	1.00	1.00	Düzenli ✓
2	2.75	20.16	22.41	23.61	15.88	26.45	27.54	1.03	1.02	Düzenli ✓
1	2.75	30.54	28.59	0.00	0.00	33.29	31.34	1.26	1.14	bodrum kat

Ba=Bax+0.3×Bay, Ba=0.3×Bax+Bay :

Kirişlerde, Kolonlarda; (Ba=Bax+0.3×Bay, Ba=0.3×Bax+Bay) düzeltmesi yapılmıştır.

Deprem yüklerinin tümünün perdeler tarafından taşınması kontrolü TBDY2018 7.6.1.3 (Tunel kalıp için)

Yapıda Perde oranı kontrolü $V_t/Ag < 0.5 \cdot f_{ctd} = 68.6$ (t/m²)

Kat	Ap	Agx		Agy		Vtx	Vty	Vtx/Agx	Vty/Agy
		Perde	Başlık	Perde	Başlık				
6	97.44	9.00	0.00	8.37	0.00	115.37	127.53	12.81 ✓	15.23 ✓
5	682.14	20.16	0.00	22.41	0.00	461.12	475.24	22.87 ✓	21.20 ✓
4	681.51	20.16	0.00	22.41	0.00	704.52	719.01	34.94 ✓	32.08 ✓
3	681.51	20.16	0.00	22.41	0.00	883.56	898.11	43.82 ✓	40.07 ✓
2	681.51	20.16	0.00	22.41	0.00	1022.36	1043.13	50.70 ✓	46.54 ✓

2824.10 20.16 22.41 $\Sigma Ag / \Sigma Ap = 20.16 / 2824.1 = 0.0071 > 0.002$ ✓
 $\Sigma Ag / \Sigma Ap \geq 0.002$, $V_t / \Sigma Ag \leq 0.5 \cdot f_{ctd}$ ✓ Perde gövde pirsantajı 0.002 alınabilir. bw≥20cm, h/16

DUVAR ETKİLİ DEPREM ANALİZİ RAPORU

Duvar rijitliği, TBDY2018 ve FEMA356 ya göre düzenlenmiştir.

$$a=0.175 \cdot (\lambda \cdot hc)^{-0.4} \cdot r, \quad \lambda = [(E_w \cdot t_w \cdot \sin 2\theta) / (4 \cdot E_c \cdot I_k \cdot h_w)]^{1/4}, \quad k = a \cdot t_w \cdot E_w / r$$

Boşluklu duvarlar, sadece basınca çalışan sonlu elemanlarla iterasyonla hesaplanmıştır.

Duvar etkili yapı analizinde; yapı deprem yükleri, duvarların kat taşıma kapasitesine göre kontrol edilerek yapılmıştır.

Ve : Duvarsız kat deprem yükü (t)
 Vwr : Duvar kat Kesme Kapasitesi (t)
 Vew : Duvarlı deprem kat yükü (t)
 ΣVw : Toplam duvar kat kesme kuvveti (t)
 Xr : Duvar etkili X rijitlik merkezi
 Yr : Duvar etkili Y rijitlik merkezi

-X DUVARLI DEPREM ANALİZİ

Kat no	Xr m	Yr m	Ve	Vwr	Vew	ΣVw	δx m	δy m	θz (rad)
6	20.15	5.09	115.37	18.62	18.62	1.28	-0.00733258	-0.00050707	-0.00006236
5	19.60	5.36	345.74	171.45	171.45	27.33	-0.00611419	-0.00000243	-0.00006254
4	19.62	5.34	243.40	171.45	171.45	29.25	-0.00466384	0.00002703	-0.00004912
3	19.70	5.56	179.04	171.45	171.45	28.62	-0.00313168	0.00001554	-0.00003231
2	20.06	6.39	138.80	213.14	138.80	29.10	-0.00164541	0.00000081	-0.00001325
1	20.31	8.78	570.24	0.00	0.00	0.00	-0.00043867	-0.00001024	0.00000280

+X DUVARLI DEPREM ANALİZİ

Kat no	Xr m	Yr m	Ve	Vwr	Vew	ΣVw	δx m	δy m	θz (rad)
6	20.14	5.09	115.37	18.62	18.62	1.28	0.00733439	0.00050796	0.00006235
5	19.60	5.36	345.74	171.45	171.45	27.33	0.00611549	0.00000294	0.00006254
4	19.61	5.34	243.40	171.45	171.45	29.24	0.00466475	-0.00002667	0.00004912
3	19.69	5.56	179.04	171.45	171.45	28.60	0.00313223	-0.00001533	0.00003231
2	20.06	6.39	138.80	213.14	138.80	29.07	0.00164566	-0.00000072	0.00001325
1	20.31	8.78	570.24	0.00	0.00	0.00	0.00043872	0.00001026	-0.00000280

-Y DUVARLI DEPREM ANALİZİ

Kat no	Xr m	Yr m	Ve	Vwr	Vew	ΣVw	δx m	δy m	θz (rad)
6	19.90	4.76	127.53	8.57	8.57	1.24	0.00004922	0.00481466	-0.00000578
5	19.31	4.97	347.70	106.27	106.27	13.75	0.00001683	0.00385403	-0.00000602
4	19.38	5.01	243.78	106.27	106.27	14.18	0.00000683	0.00292479	-0.00000631
3	19.53	5.32	179.09	106.27	106.27	13.57	0.00000108	0.00197365	-0.00000603
2	19.99	6.25	145.02	132.11	132.11	13.37	-0.00000119	0.00107120	-0.00000502
1	20.30	8.79	581.83	0.00	0.00	0.00	-0.00000009	0.00033947	-0.00000269

+Y DUVARLI DEPREM ANALİZİ

Kat no	Xr m	Yr m	Ve	Vwr	Vew	ΣVw	δx m	δy m	θz (rad)
6	19.90	4.76	127.53	8.57	8.57	1.21	-0.00005045	-0.00481724	0.00000577
5	19.31	4.98	347.70	106.27	106.27	13.68	-0.00001773	-0.00385586	0.00000600
4	19.38	5.02	243.78	106.27	106.27	14.10	-0.00000741	-0.00292607	0.00000630
3	19.53	5.32	179.09	106.27	106.27	13.49	-0.00000141	-0.00197442	0.00000603
2	19.99	6.25	145.02	132.11	132.11	13.26	0.00000105	-0.00107156	0.00000502
1	20.30	8.79	581.83	0.00	0.00	0.00	0.00000007	-0.00033954	0.00000269

DUVARLI DEPREM ANALİZİ PERİYOTLARI (sn)

T	+X	-X	+Y	-Y
1	0.3444	0.3444	0.3448	0.3448
2	0.0877	0.0877	0.0899	0.0899
3	0.0494	0.0494	0.0540	0.0540
4	0.0370	0.0370	0.0365	0.0365
5	0.0293	0.0293	0.0266	0.0266
6	0.0248	0.0248	0.0220	0.0220

Deprem moment ve kesme kuvveti kontrolunda; duvar etkili analizde,
 275 adet kirişin, 0 kirişinde, duvar etkisi büyük çıkmıştır.
 130 adet kolonun, 20 kolonunda, duvar etkisi büyük çıkmıştır.

DEPREM YAPI DEVRİLME KONTROLU

Kat deprem momenti (tm)

Kat	H (m)	F _x	F _x . H	H (m)	F _y	F _y . H
6	25.00	115.37	2884.29	25.00	127.53	3188.34
5	20.50	345.74	7087.75	20.50	347.70	7127.94
4	16.50	243.40	4016.15	16.50	243.78	4022.30
3	12.50	179.04	2237.98	12.50	179.09	2238.67
2	8.50	138.80	1179.83	8.50	145.02	1232.68
1	4.50	570.24	2566.10	4.50	581.83	2618.23
		1592.60	19972.10		1624.96	20428.16

Kat düşey yük momenti (tm)

X=36.6m

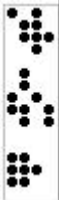
Y=-1.8m

moment noktası

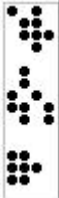
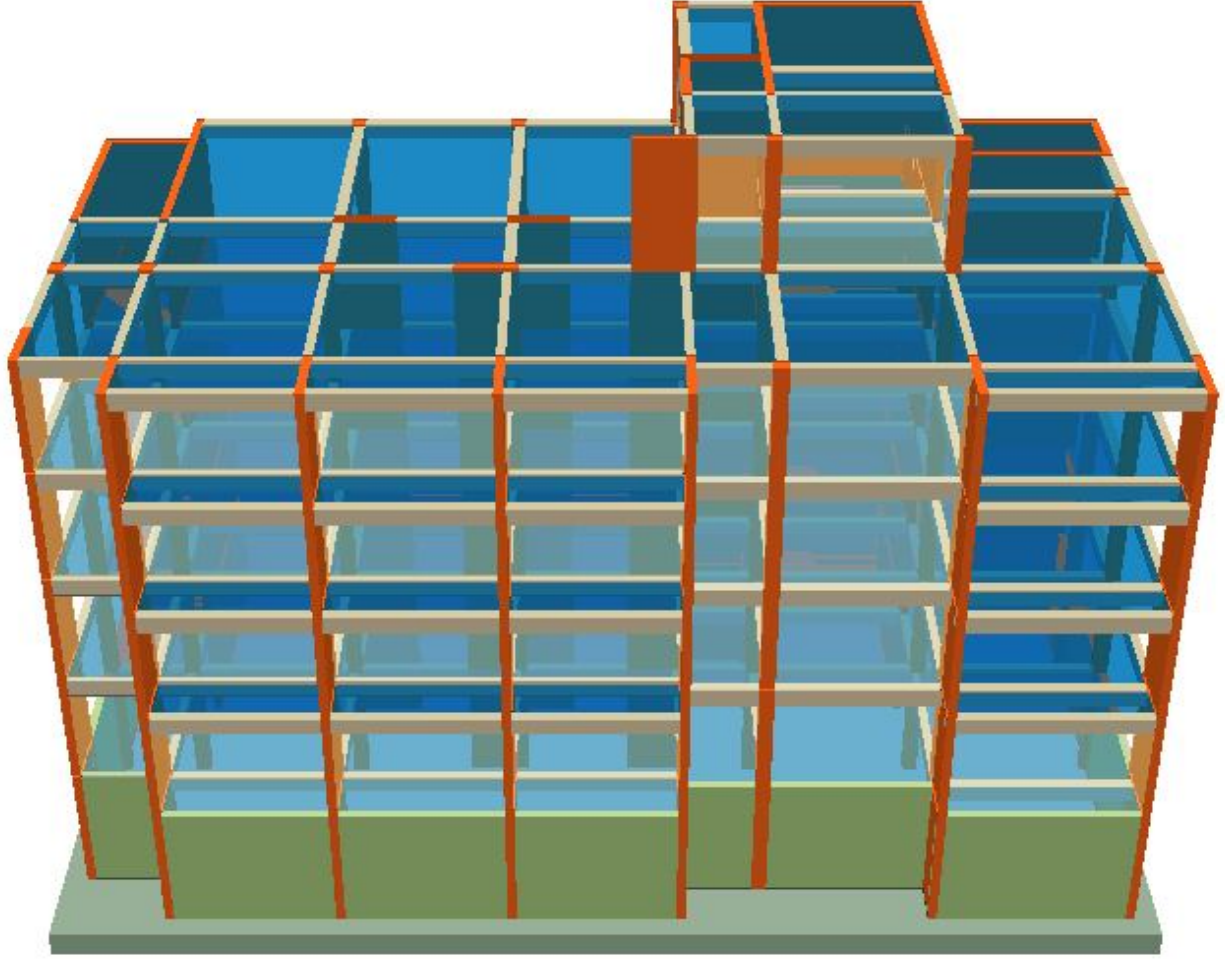
Kat	Wg+0.6·Wq	Xg-X	(Xg-X) · (Wg+0.6·Wq)	Yg-Y	(Yg-Y) · (Wg+0.6·Wq)
6	199.39	11.920	2376.62	6.947	1385.19
5	913.15	18.305	16715.58	10.925	9975.71
4	1070.64	18.914	20249.76	11.133	11919.13
3	1079.98	18.930	20444.05	11.100	11987.54
2	1080.26	18.928	20447.29	11.098	11989.12
1	1303.41	18.397	23978.26	12.079	15743.74
	1901.79	18.700	35563.47	11.300	21490.22
			139775.04		84490.66

X yönü devrilme kontrolu=139775.04/19972.1=6.999 > 1.5 ✓

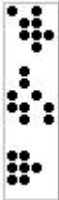
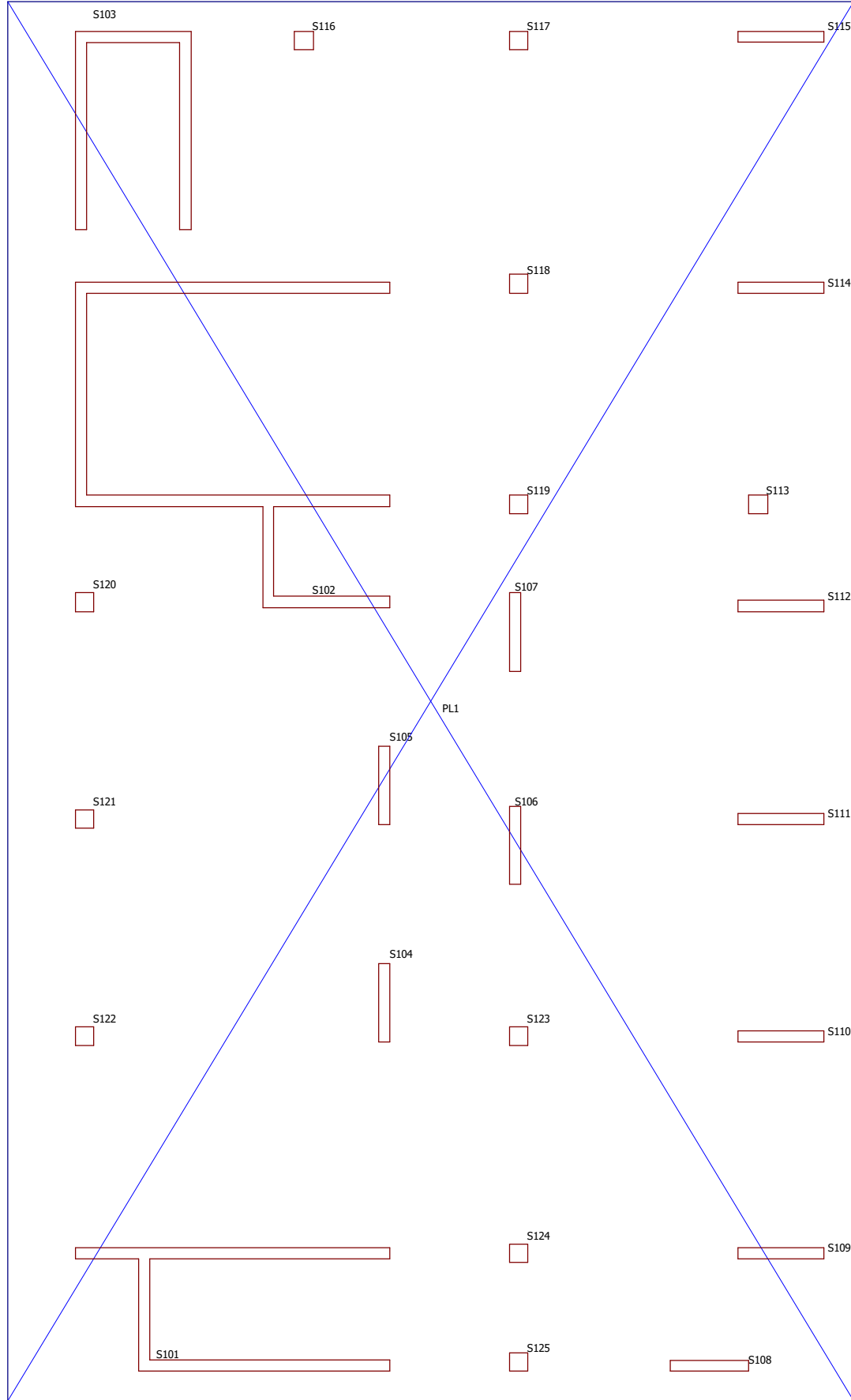
Y yönü devrilme kontrolu=84490.659/20428.163=4.136 > 1.5 ✓



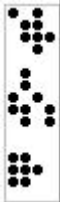
YAPI 3D GÖRÜNÜŞÜ



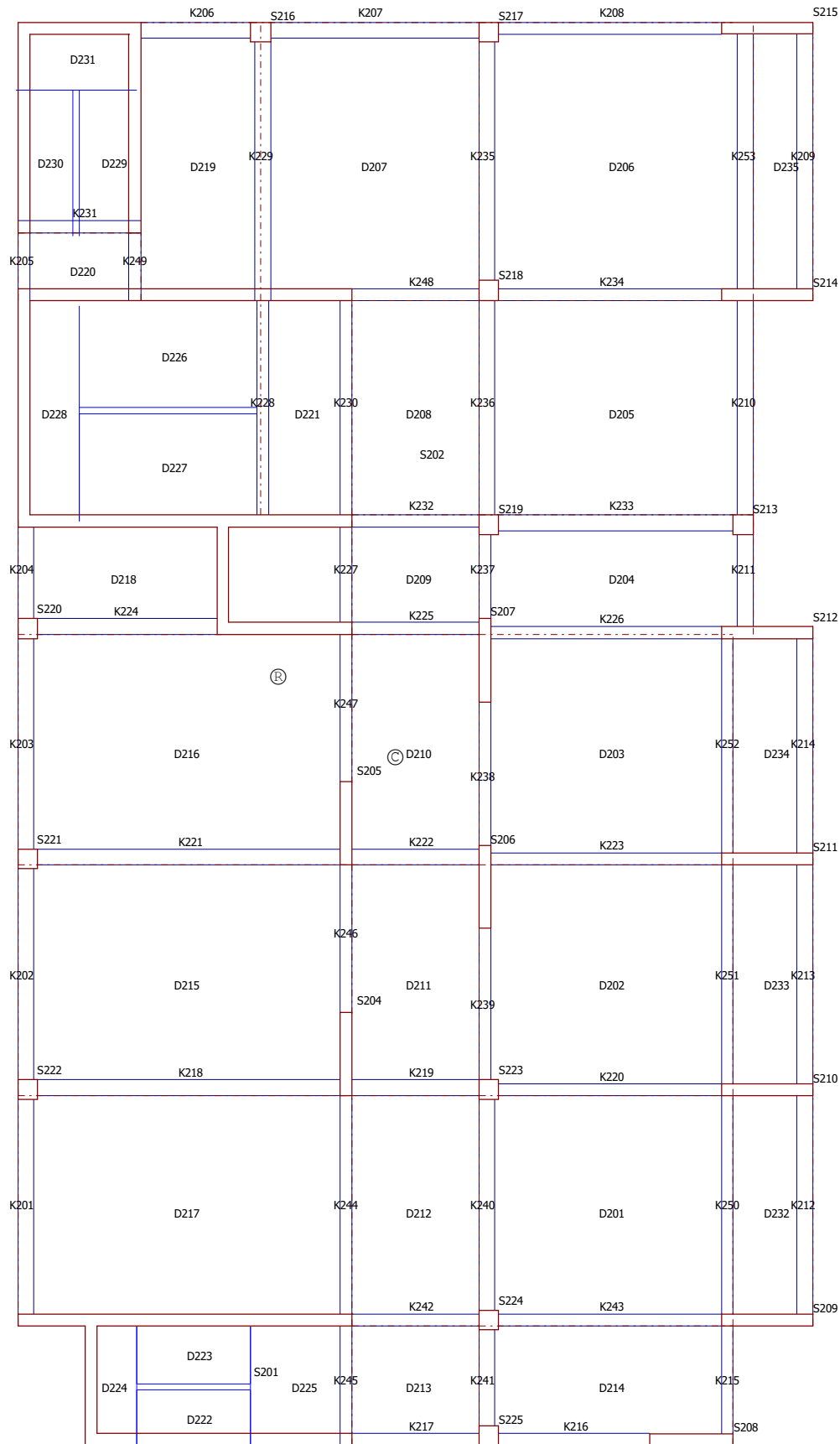
TEMEL APLIKASYON PLANI



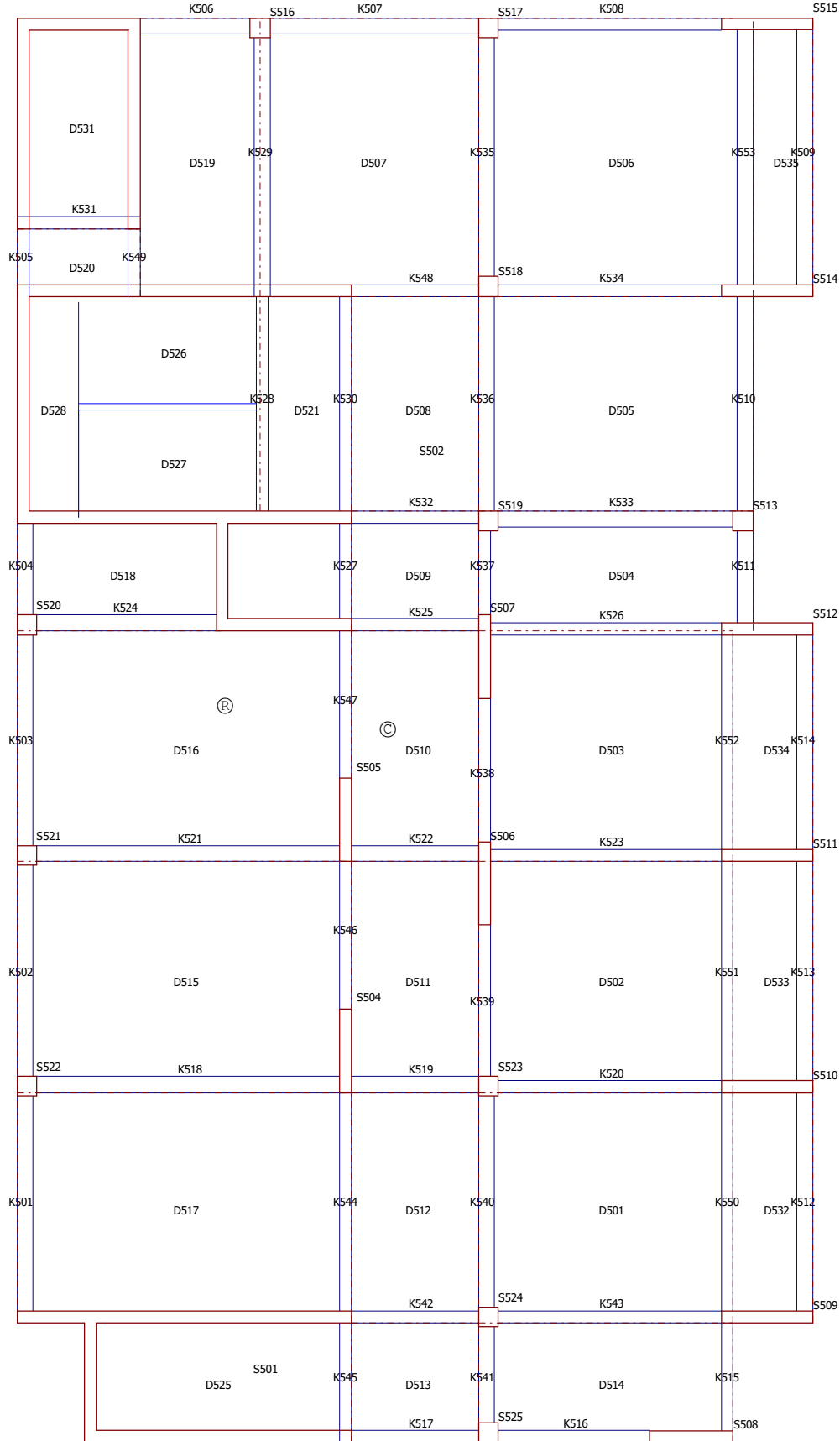
STA4CAD-V14.1



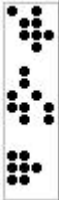
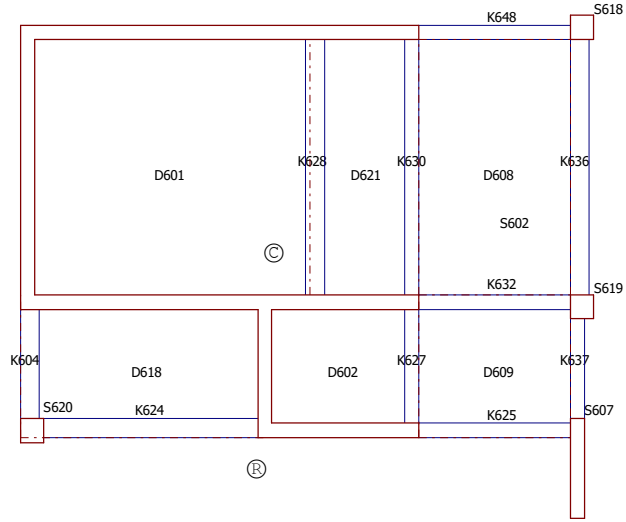
2. NORMAL KAT KALIP APLIKASYON PLANI



5. NORMAL KAT KALIP APLIKASYON PLANI



6. NORMAL KAT KALIP APLIKASYON PLANI



DÖŞEME BETONARME HESAP SONUÇLARI

Döşeme no	Msol (tm)	As cm ²	Maç (tm)	As cm ²	Msağ (tm)	As cm ²	Donatı
D101 X d=17cm Y	1.87 1.76	4.60 4.59	1.42 1.30	2.84 2.80	2.16 1.75	4.60 4.55	ø10/20 (düz)+ø10/17 (sol ila)+ø10/17 (sağ ila) ø10/20 (düz)+ø10/17 (sol ila)
D102 X d=17cm Y	2.16 1.77	4.60 4.60	1.37 1.29	2.80 2.80	2.28 1.74	4.61 4.52	ø10/20 (düz)+ø10/17 (sağ ila) ø10/20 (düz)+ø10/17 (sol ila)
D103 X d=17cm Y	2.28 1.72	4.61 4.47	1.55 1.23	3.10 2.80	1.56 1.67	4.05 4.35	ø10/20 (düz) ø10/20 (düz)+ø10/17 (sol ila)
D104 X d=17cm Y	1.56 0.00	4.05 1.70	0.39 0.00	2.80 0.00	1.66 0.00	4.32 1.70	ø10/20 (düz)+ø10/18 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D105 X d=17cm Y	1.66 2.09	4.32 4.60	1.63 1.39	3.25 2.80	2.96 0.95	6.04 2.46	ø10/20 (düz)+ø10/13 (sağ ila) ø10/20 (düz)+ø10/17 (sol ila)+ø10/20 (sağ ila)
D106 X d=17cm Y	2.96 2.77	6.04 5.62	1.84 1.63	3.69 3.27	1.29 2.32	3.32 4.68	ø10/20 (düz)+ø10/10 (sağ ila) ø10/20 (düz)+ø10/13 (sol ila)
D107 X d=17cm Y	1.39 2.00	3.59 4.60	1.49 1.58	2.97 3.16	1.05 2.77	2.70 5.62	ø10/20 (düz)+ø10/20 (sol ila)+ø12/13 (sağ ila) ø10/20 (düz)+ø10/17 (sol ila)
D108 X d=17cm Y	0.23 0.46	1.70 1.70	0.10 0.87	2.80 2.80	1.39 2.09	3.59 4.60	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D109 X d=17cm Y	0.63 0.00	1.70 1.70	0.77 0.34	2.80 2.80	0.23 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D110 X d=17cm Y	0.43 1.24	1.70 3.21	0.27 0.77	2.80 2.80	0.63 1.72	1.70 4.47	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D111 X d=17cm Y	0.40 1.24	1.70 3.19	0.35 0.77	2.80 2.80	0.43 1.77	1.70 4.60	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D112 X d=17cm Y	0.76 1.37	1.96 3.54	0.25 0.77	2.80 2.80	0.40 1.76	1.70 4.59	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D113 X d=17cm Y	0.37 0.00	1.70 1.70	0.94 0.20	2.80 2.80	0.76 0.00	1.96 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D114 X d=17cm Y	0.31 0.00	1.70 1.70	0.83 0.19	2.80 0.48	1.87 0.00	4.60 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sağ ila)
D115 X d=17cm Y	3.62 0.00	7.45 1.70	2.15 0.87	4.33 2.80	3.59 1.24	7.38 3.19	ø10/18 (düz)+ø10/10 (sol ila)+ø10/10 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D116 X d=17cm Y	3.59 0.00	7.38 1.70	2.38 0.86	4.82 2.80	2.84 1.24	5.78 3.21	ø10/16 (düz)+ø10/13 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D117 X d=17cm Y	3.37 0.00	6.91 1.70	2.38 0.98	4.81 2.80	3.62 1.37	7.45 3.54	ø10/16 (düz)+ø10/11 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D118 X d=17cm Y	2.84 0.00	5.78 1.70	0.59 0.12	2.80 2.80	0.12 0.12	1.70 1.70	ø10/20 (düz)+ø10/12 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D119 X d=17cm Y	0.15 0.67	1.70 1.72	0.13 0.79	0.32 2.80	0.15 2.00	1.70 4.60	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D120 X d=17cm Y	0.00 0.00	1.70 1.70	0.26 0.20	2.80 2.80	1.06 0.05	2.72 1.70	ø10/20 (düz)+ø10/28 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)
D121 X d=17cm Y	0.00 4.25	1.70 8.82	1.12 0.50	2.88 2.80	0.08 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø12/12 (sol ila)
D122 X d=20cm Y	0.00 0.43	2.00 0.91	0.38 0.66	0.00 1.39	0.00 0.00	0.00 0.00	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D123 X d=20cm Y	0.00 0.44	0.00 0.93	0.34 0.61	0.00 1.29	0.00 0.00	2.00 2.00	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D124 X d=20cm Y	0.00 0.00	2.00 2.00	0.08 0.12	3.40 0.25	0.00 0.82	2.00 1.72	ø10/20 (düz)+ø10/30 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)
D125 X d=20cm Y	0.10 1.05	2.00 2.22	0.50 0.55	3.40 1.15	0.07 0.06	2.00 2.00	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D126 X d=20cm Y	0.00 0.00	0.00 2.00	0.00 4.26	0.00 7.14	0.00 0.00	2.00 2.00	ø10/20 (düz)+ø10/20 (sağ ila) ø10/10 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D127 X d=20cm Y	0.00 1.39	2.00 2.94	0.80 1.60	0.00 3.39	0.00 0.00	0.00 2.00	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)
D128 X d=20cm Y	0.00 0.06	2.00 2.00	0.83 0.35	0.00 0.74	0.00 1.86	2.00 3.95	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/19 (Mon.)

DÖŞEME BETONARME HESAP SONUÇLARI

Döşeme no	Msol (tm)	As cm ²	Maç (tm)	As cm ²	Msağ (tm)	As cm ²	Donatı
D129 X d=20cm Y	0.06 0.00	2.00 0.00	0.83 0.49	1.76 0.00	0.63 0.00	1.32 2.00	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sağ ila)
D130 X d=20cm Y	0.56 0.00	2.00 2.00	0.81 0.42	1.70 0.00	0.59 0.00	1.23 0.00	ø10/20 (düz) ø10/20 (düz)+ø10/20 (sol ila)
D131 X d=20cm Y	1.23 0.00	2.61 2.00	0.17 0.13	0.35 3.40	0.01 0.00	2.00 2.00	ø10/20 (düz)+ø10/19 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D132 X d=17cm Y	0.00 1.75	1.70 4.55	0.00 0.26	0.00 2.80	0.00 0.05	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/17 (Mon.)
D133 X d=17cm Y	0.00 1.74	1.70 4.52	0.00 0.26	0.00 2.80	0.00 0.05	1.70 1.70	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/17 (Mon.)
D134 X d=17cm Y	0.00 1.67	1.70 4.35	0.00 0.27	0.00 2.80	0.00 0.05	1.70 1.70	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/18 (Mon.)
D135 X d=17cm Y	0.00 2.32	1.70 4.68	0.00 0.00	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/16 (Mon.)
D201 X d=17cm Y	1.91 1.76	4.60 4.59	1.42 1.30	2.84 2.80	2.14 1.74	4.60 4.52	ø10/20 (düz)+ø10/17 (sol ila)+ø10/17 (sağ ila) ø10/20 (düz)+ø10/17 (sol ila)
D202 X d=17cm Y	2.14 1.77	4.60 4.60	1.37 1.29	2.80 2.80	2.32 1.73	4.67 4.49	ø10/20 (düz)+ø10/16 (sağ ila) ø10/20 (düz)+ø10/17 (sol ila)
D203 X d=17cm Y	2.32 1.72	4.67 4.47	1.59 1.24	3.17 2.80	1.46 1.66	3.78 4.32	ø10/20 (düz) ø10/20 (düz)+ø10/17 (sol ila)
D204 X d=17cm Y	1.46 0.00	3.78 1.70	0.24 0.00	2.80 0.00	2.22 0.00	4.60 1.70	ø10/20 (düz)+ø10/17 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D205 X d=17cm Y	2.22 1.67	4.60 4.34	2.14 1.08	4.31 2.80	2.82 0.00	5.73 1.70	ø10/18 (düz)+ø10/13 (sağ ila) ø10/20 (düz)+ø10/18 (sol ila)+ø10/20 (sağ ila)
D206 X d=17cm Y	2.82 3.49	5.73 7.17	1.44 2.16	2.87 4.34	0.00 3.02	1.70 6.16	ø10/20 (düz)+ø10/20 (sağ ila) ø10/18 (düz)+ø10/10 (sol ila)
D207 X d=17cm Y	1.08 2.30	2.79 4.64	1.16 1.87	2.80 3.74	0.00 3.49	1.70 7.17	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/16 (sol ila)
D208 X d=17cm Y	0.30 0.55	1.70 1.70	0.14 0.93	2.80 2.80	1.08 1.67	2.79 4.34	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D209 X d=17cm Y	0.61 0.00	1.70 1.70	0.73 0.34	2.80 2.80	0.30 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D210 X d=17cm Y	0.44 1.25	1.70 3.23	0.27 0.77	2.80 2.80	0.61 1.72	1.70 4.47	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D211 X d=17cm Y	0.39 1.24	1.70 3.22	0.35 0.76	2.80 2.80	0.44 1.77	1.70 4.60	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D212 X d=17cm Y	0.78 1.38	2.01 3.57	0.25 0.77	2.80 2.80	0.39 1.76	1.70 4.59	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D213 X d=17cm Y	0.00 0.00	1.70 1.70	1.01 0.37	2.80 2.80	0.78 0.00	2.01 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D214 X d=17cm Y	0.00 0.00	1.70 1.70	1.00 0.15	2.80 0.38	1.91 0.00	4.60 1.70	ø10/20 (düz)+ø10/15 (sol ila) ø10/20 (düz)+ø10/20 (sağ ila)
D215 X d=17cm Y	3.61 0.00	7.43 1.70	2.15 0.88	4.32 2.80	3.58 1.24	7.36 3.22	ø10/18 (düz)+ø10/10 (sol ila)+ø10/10 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D216 X d=17cm Y	3.58 0.00	7.36 1.70	2.38 0.87	4.80 2.80	2.83 1.25	5.76 3.23	ø10/16 (düz)+ø10/13 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D217 X d=17cm Y	3.36 0.00	6.89 1.70	2.37 0.99	4.79 2.80	3.61 1.38	7.43 3.57	ø10/16 (düz)+ø10/11 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D218 X d=17cm Y	2.83 0.00	5.76 1.70	0.59 0.12	2.80 2.80	0.13 0.13	1.70 1.70	ø10/20 (düz)+ø10/12 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D219 X d=17cm Y	0.12 0.62	1.70 1.70	0.11 0.81	0.28 2.80	0.00 2.30	1.70 4.64	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø14/12 (sol ila)
D220 X d=17cm Y	0.00 0.00	1.70 1.70	0.26 0.20	2.80 2.80	1.05 0.05	2.72 1.70	ø10/20 (düz)+ø14/12 (sağ ila)+ø10/28 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)
D221 X d=17cm Y	0.00 4.26	1.70 8.84	1.12 0.50	2.88 2.80	0.08 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø12/12 (sol ila)

DÖŞEME BETONARME HESAP SONUÇLARI

Döşeme no	Msol (tm)	As cm ²	Maç (tm)	As cm ²	Msağ (tm)	As cm ²	Donatı
D222 X d=20cm Y	0.00 0.41	2.00 0.87	0.38 0.66	0.00 1.40	0.00 0.00	0.00 0.00	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D223 X d=20cm Y	0.00 0.43	0.00 0.90	0.34 0.63	0.00 1.32	0.00 0.00	2.00 0.00	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D224 X d=20cm Y	0.00 0.01	2.00 2.00	0.09 0.13	3.40 0.26	0.00 0.79	2.00 1.66	ø10/20 (düz)+ø10/30 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)
D225 X d=20cm Y	0.11 1.01	2.00 2.13	0.51 0.55	3.40 1.15	0.07 0.07	2.00 2.00	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D226 X d=20cm Y	0.00 1.79	0.00 3.81	0.99 2.10	0.00 3.45	0.00 0.00	2.00 2.00	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D227 X d=20cm Y	0.00 1.34	2.00 2.84	0.81 1.62	0.00 3.44	0.00 0.00	0.00 2.00	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)
D228 X d=20cm Y	0.00 0.02	2.00 2.00	0.13 0.08	0.00 0.17	0.00 2.84	2.00 5.59	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/14 (Mon.)
D229 X d=20cm Y	0.06 0.00	2.00 0.00	0.85 0.50	1.79 0.00	0.60 0.00	1.27 2.00	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sağ ila)
D230 X d=20cm Y	0.56 0.00	2.00 2.00	0.82 0.42	1.72 0.00	0.56 0.00	1.18 0.00	ø10/20 (düz) ø10/20 (düz)+ø10/20 (sol ila)
D231 X d=20cm Y	1.20 0.00	2.54 2.00	0.17 0.14	0.36 3.40	0.01 0.00	2.00 2.00	ø10/20 (düz)+ø10/19 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D232 X d=17cm Y	0.00 1.74	1.70 4.52	0.00 0.26	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/17 (Mon.)
D233 X d=17cm Y	0.00 1.73	1.70 4.49	0.00 0.26	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/17 (Mon.)
D234 X d=17cm Y	0.00 1.66	1.70 4.32	0.00 0.27	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/18 (Mon.)
D235 X d=17cm Y	0.00 3.02	1.70 6.16	0.00 0.00	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/12 (Mon.)
D301 X d=17cm Y	1.91 1.76	4.60 4.59	1.42 1.30	2.84 2.80	2.14 1.74	4.60 4.52	ø10/20 (düz)+ø10/17 (sol ila)+ø10/17 (sağ ila) ø10/20 (düz)+ø10/17 (sol ila)
D302 X d=17cm Y	2.14 1.77	4.60 4.60	1.37 1.29	2.80 2.80	2.32 1.73	4.67 4.49	ø10/20 (düz)+ø10/16 (sağ ila) ø10/20 (düz)+ø10/17 (sol ila)
D303 X d=17cm Y	2.32 1.72	4.67 4.47	1.59 1.24	3.17 2.80	1.46 1.66	3.78 4.32	ø10/20 (düz) ø10/20 (düz)+ø10/17 (sol ila)
D304 X d=17cm Y	1.46 0.00	3.78 1.70	0.24 0.00	2.80 0.00	2.22 0.00	4.60 1.70	ø10/20 (düz)+ø10/17 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D305 X d=17cm Y	2.22 1.67	4.60 4.34	2.14 1.08	4.31 2.80	2.82 0.00	5.73 1.70	ø10/18 (düz)+ø10/13 (sağ ila) ø10/20 (düz)+ø10/18 (sol ila)+ø10/20 (sağ ila)
D306 X d=17cm Y	2.82 3.49	5.73 7.17	1.44 2.16	2.87 4.34	0.00 3.02	1.70 6.16	ø10/20 (düz)+ø10/20 (sağ ila) ø10/18 (düz)+ø10/10 (sol ila)
D307 X d=17cm Y	1.08 2.30	2.79 4.64	1.16 1.87	2.80 3.74	0.00 3.49	1.70 7.17	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/16 (sol ila)
D308 X d=17cm Y	0.30 0.55	1.70 1.70	0.14 0.93	2.80 2.80	1.08 1.67	2.79 4.34	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D309 X d=17cm Y	0.61 0.00	1.70 1.70	0.73 0.34	2.80 2.80	0.30 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D310 X d=17cm Y	0.44 1.25	1.70 3.23	0.27 0.77	2.80 2.80	0.61 1.72	1.70 4.47	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D311 X d=17cm Y	0.39 1.24	1.70 3.22	0.35 0.76	2.80 2.80	0.44 1.77	1.70 4.60	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D312 X d=17cm Y	0.78 1.38	2.01 3.57	0.25 0.77	2.80 2.80	0.39 1.76	1.70 4.59	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D313 X d=17cm Y	0.00 0.00	1.70 1.70	1.01 0.37	2.80 2.80	0.78 0.00	2.01 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D314 X d=17cm Y	0.00 0.00	1.70 1.70	1.00 0.15	2.80 0.38	1.91 0.00	4.60 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sağ ila)

DÖŞEME BETONARME HESAP SONUÇLARI

Döşeme no	Msol (tm)	As cm ²	Maç (tm)	As cm ²	Msağ (tm)	As cm ²	Donatı
D315 X d=17cm Y	3.61 0.00	7.43 1.70	2.15 0.88	4.32 2.80	3.58 1.24	7.36 3.22	ø10/18 (düz)+ø10/10 (sol ila)+ø10/10 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D316 X d=17cm Y	3.58 0.00	7.36 1.70	2.38 0.87	4.80 2.80	2.83 1.25	5.76 3.23	ø10/16 (düz)+ø10/13 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D317 X d=17cm Y	3.36 0.00	6.89 1.70	2.37 0.99	4.79 2.80	3.61 1.38	7.43 3.57	ø10/16 (düz)+ø10/11 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D318 X d=17cm Y	2.83 0.00	5.76 1.70	0.59 0.12	2.80 2.80	0.13 0.13	1.70 1.70	ø10/20 (düz)+ø10/12 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D319 X d=17cm Y	0.12 0.62	1.70 1.70	0.11 0.81	0.28 2.80	0.00 2.30	1.70 4.64	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D320 X d=17cm Y	0.00 0.00	1.70 1.70	0.26 0.20	2.80 2.80	1.05 0.05	2.72 1.70	ø10/20 (düz)+ø10/28 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)
D321 X d=17cm Y	0.00 4.26	1.70 8.84	1.12 0.50	2.88 2.80	0.08 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø12/12 (sol ila)
D322 X d=20cm Y	0.00 0.41	2.00 0.87	0.38 0.66	0.00 1.40	0.00 0.00	0.00 0.00	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D323 X d=20cm Y	0.00 0.43	0.00 0.90	0.34 0.63	0.00 1.32	0.00 0.00	2.00 0.00	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D324 X d=20cm Y	0.00 0.01	2.00 2.00	0.09 0.13	3.40 0.26	0.00 0.79	2.00 1.66	ø10/20 (düz)+ø10/30 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)
D325 X d=20cm Y	0.11 1.01	2.00 2.13	0.51 0.55	3.40 1.15	0.07 0.07	2.00 2.00	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D326 X d=20cm Y	0.00 1.79	0.00 3.81	0.99 2.10	0.00 3.45	0.00 0.00	2.00 2.00	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D327 X d=20cm Y	0.00 1.34	2.00 2.84	0.81 1.62	0.00 3.44	0.00 0.00	0.00 2.00	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)
D328 X d=20cm Y	0.00 0.02	2.00 2.00	0.13 0.08	0.00 0.17	0.00 2.84	2.00 5.59	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/14 (Mon.)
D329 X d=20cm Y	0.06 0.00	2.00 0.00	0.85 0.50	1.79 0.00	0.60 0.00	1.27 2.00	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sağ ila)
D330 X d=20cm Y	0.56 0.00	2.00 2.00	0.82 0.42	1.72 0.00	0.56 0.00	1.18 0.00	ø10/20 (düz) ø10/20 (düz)+ø10/20 (sol ila)
D331 X d=20cm Y	1.20 0.00	2.54 2.00	0.17 0.14	0.36 3.40	0.01 0.00	2.00 2.00	ø10/20 (düz)+ø10/19 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D332 X d=17cm Y	0.00 1.74	1.70 4.52	0.00 0.26	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/17 (Mon.)
D333 X d=17cm Y	0.00 1.73	1.70 4.49	0.00 0.26	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/17 (Mon.)
D334 X d=17cm Y	0.00 1.66	1.70 4.32	0.00 0.27	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/18 (Mon.)
D335 X d=17cm Y	0.00 3.02	1.70 6.16	0.00 0.00	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/12 (Mon.)
D401 X d=17cm Y	1.91 1.76	4.60 4.59	1.42 1.30	2.84 2.80	2.14 1.74	4.60 4.52	ø10/20 (düz)+ø10/17 (sol ila)+ø10/17 (sağ ila) ø10/20 (düz)+ø10/17 (sol ila)
D402 X d=17cm Y	2.14 1.77	4.60 4.60	1.37 1.29	2.80 2.80	2.32 1.73	4.67 4.49	ø10/20 (düz)+ø10/16 (sağ ila) ø10/20 (düz)+ø10/17 (sol ila)
D403 X d=17cm Y	2.32 1.72	4.67 4.47	1.59 1.24	3.17 2.80	1.46 1.66	3.78 4.32	ø10/20 (düz) ø10/20 (düz)+ø10/17 (sol ila)
D404 X d=17cm Y	1.46 0.00	3.78 1.70	0.24 0.00	2.80 0.00	2.22 0.00	4.60 1.70	ø10/20 (düz)+ø10/17 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D405 X d=17cm Y	2.22 1.68	4.60 4.36	2.14 1.08	4.31 2.80	2.82 0.00	5.73 1.70	ø10/18 (düz)+ø10/13 (sağ ila) ø10/20 (düz)+ø10/18 (sol ila)+ø10/20 (sağ ila)
D406 X d=17cm Y	2.82 3.49	5.73 7.17	1.44 2.16	2.87 4.34	0.00 3.02	1.70 6.16	ø10/20 (düz)+ø10/20 (sağ ila) ø10/18 (düz)+ø10/10 (sol ila)
D407 X d=17cm Y	1.08 2.30	2.79 4.64	1.16 1.87	2.80 3.74	0.00 3.49	1.70 7.17	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/16 (sol ila)

DÖŞEME BETONARME HESAP SONUÇLARI

Döşeme no	Msol (tm)	As cm ²	Maç (tm)	As cm ²	Msağ (tm)	As cm ²	Donatı
D408 X d=17cm Y	0.30 0.54	1.70 1.70	0.14 0.96	2.80 2.80	1.08 1.68	2.79 4.36	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D409 X d=17cm Y	0.61 0.00	1.70 1.70	0.73 0.34	2.80 2.80	0.30 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D410 X d=17cm Y	0.44 1.25	1.70 3.23	0.27 0.77	2.80 2.80	0.61 1.72	1.70 4.47	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D411 X d=17cm Y	0.39 1.24	1.70 3.22	0.35 0.76	2.80 2.80	0.44 1.77	1.70 4.60	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D412 X d=17cm Y	0.78 1.38	2.01 3.57	0.25 0.77	2.80 2.80	0.39 1.76	1.70 4.59	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D413 X d=17cm Y	0.00 0.00	1.70 1.70	1.01 0.37	2.80 2.80	0.78 0.00	2.01 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D414 X d=17cm Y	0.00 0.00	1.70 1.70	1.00 0.15	2.80 0.38	1.91 0.00	4.60 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sağ ila)
D415 X d=17cm Y	3.61 0.00	7.43 1.70	2.15 0.88	4.32 2.80	3.58 1.24	7.36 3.22	ø10/18 (düz)+ø10/10 (sol ila)+ø10/10 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D416 X d=17cm Y	3.58 0.00	7.36 1.70	2.38 0.87	4.80 2.80	2.83 1.25	5.76 3.23	ø10/16 (düz)+ø10/13 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D417 X d=17cm Y	3.36 0.00	6.89 1.70	2.37 0.99	4.79 2.80	3.61 1.38	7.43 3.57	ø10/16 (düz)+ø10/11 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D418 X d=17cm Y	2.83 0.00	5.76 1.70	0.59 0.12	2.80 2.80	0.13 0.13	1.70 1.70	ø10/20 (düz)+ø10/12 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D419 X d=17cm Y	0.12 0.62	1.70 1.70	0.11 0.81	0.28 2.80	0.00 2.30	1.70 4.64	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D420 X d=17cm Y	0.01 0.00	1.70 1.70	0.28 0.20	2.80 2.80	0.80 0.04	2.05 1.70	ø10/20 (düz)+ø10/30 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)
D421 X d=17cm Y	0.00 4.26	1.70 8.84	1.12 0.50	2.88 2.80	0.08 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø12/12 (sol ila)
D422 X d=20cm Y	0.00 0.41	2.00 0.87	0.38 0.66	0.00 1.40	0.00 0.00	0.00 0.00	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D423 X d=20cm Y	0.00 0.43	0.00 0.90	0.34 0.63	0.00 1.32	0.00 0.00	2.00 0.00	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D424 X d=20cm Y	0.00 0.01	2.00 2.00	0.09 0.13	3.40 0.26	0.00 0.79	2.00 1.66	ø10/20 (düz)+ø10/30 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)
D425 X d=20cm Y	0.11 1.01	2.00 2.13	0.51 0.55	3.40 1.15	0.07 0.07	2.00 2.00	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D426 X d=20cm Y	0.00 1.79	0.00 3.81	0.99 2.10	0.00 3.45	0.00 0.00	2.00 2.00	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D427 X d=20cm Y	0.00 1.34	2.00 2.84	0.81 1.62	0.00 3.44	0.00 0.00	0.00 2.00	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)
D428 X d=20cm Y	0.00 0.02	2.00 2.00	0.13 0.08	0.00 0.17	0.00 2.84	2.00 5.59	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/14 (Mon.)
D429 X d=20cm Y	0.06 0.00	2.00 0.00	0.85 0.50	1.79 0.00	0.60 0.00	1.27 2.00	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sağ ila)
D430 X d=20cm Y	0.64 0.00	2.00 2.00	0.81 0.42	1.71 0.00	0.56 0.00	1.18 0.00	ø10/20 (düz) ø10/20 (düz)+ø10/20 (sol ila)
D431 X d=20cm Y	1.20 0.00	2.54 2.00	0.17 0.14	0.36 3.40	0.01 0.00	2.00 2.00	ø10/20 (düz)+ø10/19 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D432 X d=17cm Y	0.00 1.74	1.70 4.52	0.00 0.26	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/17 (Mon.)
D433 X d=17cm Y	0.00 1.73	1.70 4.49	0.00 0.26	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/17 (Mon.)
D434 X d=17cm Y	0.00 1.66	1.70 4.32	0.00 0.27	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/18 (Mon.)
D435 X d=17cm Y	0.00 3.02	1.70 6.16	0.00 0.00	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/12 (Mon.)

DÖŞEME BETONARME HESAP SONUÇLARI

Döşeme no	Msol (tm)	As cm ²	Maç (tm)	As cm ²	Msağ (tm)	As cm ²	Donatı
D501 X d=17cm Y	1.91 1.76	4.60 4.59	1.42 1.30	2.84 2.80	2.14 1.74	4.60 4.52	ø10/20 (düz)+ø10/17 (sol ila)+ø10/17 (sağ ila) ø10/20 (düz)+ø10/17 (sol ila)
D502 X d=17cm Y	2.14 1.77	4.60 4.60	1.37 1.29	2.80 2.80	2.32 1.73	4.67 4.49	ø10/20 (düz)+ø10/16 (sağ ila) ø10/20 (düz)+ø10/17 (sol ila)
D503 X d=17cm Y	2.32 1.72	4.67 4.47	1.59 1.24	3.17 2.80	1.46 1.66	3.78 4.32	ø10/20 (düz) ø10/20 (düz)+ø10/17 (sol ila)
D504 X d=17cm Y	1.46 0.00	3.78 1.70	0.24 0.00	2.80 0.00	2.22 0.00	4.60 1.70	ø10/20 (düz)+ø10/17 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D505 X d=17cm Y	2.22 1.68	4.60 4.36	2.14 1.08	4.31 2.80	2.82 0.00	5.73 1.70	ø10/18 (düz)+ø10/13 (sağ ila) ø10/20 (düz)+ø10/18 (sol ila)+ø10/20 (sağ ila)
D506 X d=17cm Y	2.82 3.52	5.73 7.23	1.44 2.16	2.87 4.34	0.00 3.02	1.70 6.16	ø10/20 (düz)+ø10/20 (sağ ila) ø10/18 (düz)+ø10/10 (sol ila)
D507 X d=17cm Y	1.08 2.30	2.79 4.64	1.16 1.91	2.80 3.82	0.00 3.52	1.70 7.23	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/16 (sol ila)
D508 X d=17cm Y	0.30 0.48	1.70 1.70	0.14 0.96	2.80 2.80	1.08 1.68	2.79 4.36	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D509 X d=17cm Y	0.61 0.00	1.70 1.70	0.73 0.34	2.80 2.80	0.30 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D510 X d=17cm Y	0.44 1.25	1.70 3.23	0.27 0.77	2.80 2.80	0.61 1.72	1.70 4.47	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D511 X d=17cm Y	0.39 1.24	1.70 3.22	0.35 0.76	2.80 2.80	0.44 1.77	1.70 4.60	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D512 X d=17cm Y	0.78 1.38	2.01 3.57	0.25 0.77	2.80 2.80	0.39 1.76	1.70 4.59	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D513 X d=17cm Y	0.00 0.00	1.70 1.70	1.01 0.37	2.80 2.80	0.78 0.00	2.01 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D514 X d=17cm Y	0.00 0.00	1.70 1.70	1.00 0.15	2.80 0.38	1.91 0.00	4.60 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sağ ila)
D515 X d=17cm Y	3.69 0.00	7.59 1.70	2.14 0.88	4.30 2.80	3.56 1.24	7.31 3.22	ø10/18 (düz)+ø10/10 (sol ila)+ø10/10 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D516 X d=17cm Y	3.56 0.00	7.31 1.70	2.39 0.87	4.82 2.80	2.84 1.25	5.78 3.23	ø10/16 (düz)+ø10/13 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D517 X d=17cm Y	3.00 0.00	6.12 1.70	2.50 0.99	5.05 2.80	3.69 1.38	7.59 3.57	ø10/15 (düz)+ø10/12 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D518 X d=17cm Y	2.84 0.00	5.78 1.70	0.58 0.12	2.80 2.80	0.13 0.13	1.70 1.70	ø10/20 (düz)+ø20/20 (sağ ila)+ø10/12 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D519 X d=17cm Y	0.12 0.94	1.70 2.41	0.11 0.81	0.28 2.80	0.00 2.30	1.70 4.64	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D520 X d=17cm Y	0.06 0.00	1.70 1.70	0.37 0.00	2.80 2.80	0.40 0.62	1.70 1.70	ø10/20 (düz)+ø10/30 (Mon.) ø10/20 (düz)+ø10/20 (sol ila)
D521 X d=17cm Y	0.00 3.00	1.70 6.11	1.19 0.55	3.07 2.80	0.08 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/12 (sol ila)
D525 X d=17cm Y	0.14 0.00	1.70 1.70	0.62 0.14	2.80 0.35	3.00 0.00	6.12 1.70	ø10/20 (düz)+ø10/20 (sol ila) ø10/20 (düz)+ø10/20 (sol ila)
D526 X d=15cm Y	0.00 1.94	0.00 4.60	0.86 1.84	0.00 4.35	0.00 0.00	1.50 1.50	ø10/20 (düz)+ø10/20 (sağ ila) ø10/18 (düz)+ø10/17 (sol ila)
D527 X d=15cm Y	0.00 1.48	1.50 3.94	0.70 1.42	0.00 3.94	0.00 0.00	0.00 1.50	ø10/20 (düz)+ø10/20 (sol ila) ø10/19 (düz)
D528 X d=17cm Y	0.00 0.01	1.70 1.70	0.09 0.04	0.00 0.10	0.00 2.85	1.70 5.80	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/13 (Mon.)
D531 X d=17cm Y	0.40 0.23	1.70 1.70	0.19 0.88	2.80 2.80	0.08 0.94	1.70 2.41	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/20 (sol ila)
D532 X d=17cm Y	0.00 1.74	1.70 4.52	0.00 0.26	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/17 (Mon.)
D533 X d=17cm Y	0.00 1.73	1.70 4.49	0.00 0.26	0.00 2.80	0.00 0.00	1.70 1.70	ø10/20 (düz)+ø10/20 (sağ ila) ø10/20 (düz)+ø10/17 (Mon.)

DÖŞEME BETONARME HESAP SONUÇLARI

Döşeme no		Msol (tm)	As cm ²	Maç (tm)	As cm ²	Msağ (tm)	As cm ²	Donatı
D534	X	0.00	1.70	0.00	0.00	0.00	1.70	ø10/20 (düz)+ø10/20 (sağ ila)
d=17cm	Y	1.66	4.32	0.27	2.80	0.00	1.70	ø10/20 (düz)+ø10/18 (Mon.)
D535	X	0.00	1.70	0.00	0.00	0.00	1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
d=17cm	Y	3.02	6.16	0.00	2.80	0.00	1.70	ø10/20 (düz)+ø10/12 (Mon.)
D601	X	2.25	4.60	1.77	3.54	0.70	1.80	ø10/20 (düz)+ø10/17 (sol ila)+ø10/20 (sağ ila)
d=17cm	Y	0.61	1.70	1.40	2.80	1.67	4.35	ø10/20 (düz)+ø10/20 (sol ila)+ø10/18 (sağ ila)
D602	X	0.14	1.70	0.60	2.80	0.34	1.70	ø10/20 (düz)+ø10/30 (Mon.)
d=17cm	Y	0.41	1.70	0.32	2.80	0.54	1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D608	X	0.72	1.84	0.37	2.80	0.00	1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
d=17cm	Y	1.08	2.78	1.34	2.80	0.00	1.70	ø10/20 (düz)+ø10/20 (sol ila)+ø10/20 (sağ ila)
D609	X	0.00	1.70	0.64	2.80	0.72	1.84	ø10/20 (düz)+ø10/20 (sol ila)
d=17cm	Y	0.54	1.70	0.39	2.80	0.00	1.70	ø10/20 (düz)+ø10/20 (sağ ila)
D618	X	0.00	1.70	0.59	2.80	2.25	4.60	ø10/20 (düz)+ø10/20 (sol ila)
d=17cm	Y	0.00	1.70	0.25	2.80	0.41	1.70	ø10/20 (düz)+ø10/20 (sol ila)
D621	X	0.34	1.70	0.03	0.08	0.00	1.70	ø10/20 (düz)+ø10/20 (sağ ila)
d=17cm	Y	1.67	4.35	0.00	2.80	1.08	2.78	ø10/20 (düz)

KIRIŞ BETONARME HESAP SONUÇLARI

Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K101 Mduz. (tm)	-1.59	0.00	(2.96m)	2.52	0.00	3ø16(mon.)
A4 ✓ max M (tm)	14.92	0.00	6.39	-13.52	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.39	5.08	5.55	2.77	ø10/20/12(etriye)
Asw (cm ²)	4.77			4.41		
K102 Mduz. (tm)	-2.77	0.00	(2.93m)	2.87	0.00	3ø16(mon.)
A4 ✓ max M (tm)	13.71	0.00	6.41	-14.19	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.52	2.76	5.08	5.72	2.86	ø10/20/12(etriye)
Asw (cm ²)	4.55			4.45		
K103 Mduz. (tm)	-2.81	0.00	(2.93m)	2.81	0.00	3ø16(mon.)
A4 ✓ max M (tm)	13.65	0.00	6.87	-13.27	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.52	2.76	5.08	5.52	2.76	ø10/20/12(etriye)
Asw (cm ²)	4.55			4.45		
K104 Mduz. (tm)	-1.30	0.09	(1.42m)	14.65	-1.46	3ø16(mon.)
A4 ✓ max M (tm)	6.31	-2.09	0.43	-18.21	2.24	3ø16(düz)+4ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	1.98			1.93		
K153 Mduz. (tm)	-2.16	0.00	(3.62m)	1.78	0.00	3ø16(mon.)
A4 ✓ max M (tm)	20.79	0.00	11.73	-10.19	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	2ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	9.48	4.74	6.77	6.77	3.38	ø10/20/12(etriye)
Asw (cm ²)	7.86			6.65		
K150 Mduz. (tm)	-2.26	0.00	(2.93m)	2.26	0.00	2ø16(mon.)+2ø16(sag mon.)
A4 ✓ max M (tm)	17.23	0.00	8.37	-17.26	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	2ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.64	3.82	5.08	7.65	3.83	ø10/20/10(etriye)
Asw (cm ²)	4.72			4.62		
K151 Mduz. (tm)	-2.25	0.00	(2.93m)	2.26	0.00	2ø16(mon.)+2ø16(sol mon.)+2ø16(sag mon.)
A4 ✓ max M (tm)	17.19	0.00	8.35	-17.25	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	2ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.62	3.81	5.08	7.65	3.82	ø10/20/10(etriye)
Asw (cm ²)	4.72			4.62		
K152 Mduz. (tm)	-2.42	0.00	(3.14m)	1.98	0.00	2ø16(mon.)+2ø16(sol mon.)
A4 ✓ max M (tm)	19.66	0.00	10.58	-8.80	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	8.86	4.43	5.22	5.08	2.54	ø10/20/10(etriye)
Asw (cm ²)	5.07			4.11		
K118 Mduz. (tm)	-7.35	0.00	(4.04m)	4.27	0.00	4ø16(mon.)+4ø16(sag mon.)
A4 ✓ max M (tm)	44.49	0.00	28.83	-41.42	0.00	5ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	6ø16(sol üst ila.)+2ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	19.77	9.88	14.35	19.77	9.89	ø10/20/12(etriye)
Asw (cm ²)	12.75			12.42		
K119 Mduz. (tm)	-1.28	0.00	(2.54m)	0.92	-0.36	4ø16(mon.)+4ø16(sol mon.)
A4 ✓ max M (tm)	16.79	0.00	-3.24	-8.97	2.42	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	233.33	
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.84	3.92	6.77	6.77	3.38	ø10/12(etriye)
Asw (cm ²)	5.41			1.84		
K120 Mduz. (tm)	-4.36	0.00	(2.94m)	21.69	0.00	3ø20(mon.)
A4 ✓ max M (tm)	20.16	0.00	12.70	-42.90	0.00	2ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø20(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sağ alt ila.)
As (cm ²)	8.08	4.04	6.27	11.04	5.52	ø10/20/15(etriye)
Asw (cm ²)	4.57			4.95		
K121 Mduz. (tm)	-7.33	0.00	(4.04m)	4.27	0.00	4ø16(mon.)+4ø16(sag mon.)
A4 ✓ max M (tm)	44.11	0.00	28.74	-41.69	0.00	5ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	6ø16(sol üst ila.)+2ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	19.56	9.78	14.31	19.93	9.96	ø10/20/12(etriye)
Asw (cm ²)	12.59			12.43		

KIRIŞ BETONARME HESAP SONUÇLARI

Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K122 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.21 16.39 233.33 0.00 7.66 5.13	0.00 0.00 0.00 0.00 3.83	(2.41m) -4.02 233.33 0.00 6.77	0.54 -7.99 233.33 0.00 6.77 2.12	-0.16 1.21 233.33 0.00 3.38	4ø16(mon.)+4ø16(sol mon.) 3ø20(düz)+2ø12(göv.) ø10/12(etriye)
K123 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.59 18.54 233.33 0.00 8.16 4.75	0.00 0.00 0.00 0.00 4.08	(2.95m) 13.66 233.33 0.00 6.75	22.66 -45.36 233.33 0.00 11.87 5.11	0.00 0.00 0.00 0.00 5.94	3ø20(mon.) 3ø20(düz)+2ø12(göv.) 1ø20(sağ üst ila.) ø10/20/15(etriye)
K124 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.91 13.18 233.33 0.00 6.77 4.95	-0.69 -0.78 233.33 0.00 3.38	(2.44m) 7.70 233.33 0.00 6.77	22.21 -36.50 233.33 0.00 7.36 5.27	0.00 0.00 0.00 0.00 3.68	4ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sağ üst ila.) ø10/20/12(etriye)
K125 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-8.86 15.36 233.33 0.00 5.08 2.73	0.82 -2.60 233.33 0.00 2.54	(3.30m) 0.94 233.33 0.00 5.08	0.91 -8.39 233.33 0.00 5.08 2.70	-0.01 1.17 233.33 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K126 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.48 16.69 233.33 0.00 7.23 4.75	0.00 0.00 0.00 0.00 3.62	(2.95m) 11.63 233.33 0.00 5.74	21.44 -41.79 233.33 0.00 10.56 5.11	0.00 0.00 0.00 0.00 5.28	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø20(sol üst ila.)+2ø20(sağ üst ila.) 1ø16(sağ alt ila.) ø10/20/12(etriye)
K128 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.45 15.72 233.33 0.00 6.74 3.91	0.00 0.00 0.00 0.00 3.37	(2.45m) 6.11 233.33 0.00 5.08	1.06 -9.34 233.33 0.00 5.38 5.27	0.00 0.00 0.00 0.00 2.69	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/20/12(etriye)
K129 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.33 21.62 233.33 0.00 9.83 7.36	0.00 0.00 0.00 0.00 4.91	(3.40m) 11.15 233.33 0.00 6.77	3.75 -19.49 233.33 0.00 7.96 6.69	0.00 0.00 0.00 0.00 3.98	4ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø20(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K131 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-1.14 4.43 233.33 0.00 5.08 2.27	0.00 0.00 0.00 0.00 2.54	(1.48m) 1.74 233.33 0.00 5.08	1.30 -4.86 233.33 0.00 5.08 1.98	0.00 0.00 0.00 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K132 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-23.20 29.40 233.33 0.00 5.08 2.81	1.03 -2.02 233.33 0.00 2.54	(5.85m) 1.20 233.33 0.00 5.08	1.43 -8.57 233.33 0.00 5.08 2.63	-0.03 1.91 233.33 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K133 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-4.68 21.48 233.33 0.00 8.51 6.61	0.00 0.00 0.00 0.00 4.26	(3.17m) 13.76 233.33 0.00 6.80	4.89 -23.67 233.33 0.00 9.56 6.76	0.00 0.00 0.00 0.00 4.78	4ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø20(sağ üst ila.) ø10/20/12(etriye)
K137 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-5.30 10.09 233.33 0.00 5.08 1.11	2.47 -5.47 233.33 0.00 2.54	(1.70m) -0.64 233.33 0.00 5.08	1.78 -8.72 233.33 0.00 5.08 2.47	-0.36 2.28 233.33 0.00 2.54	3ø16(mon.) 3ø16(düz)+4ø12(göv.) ø10/12(etriye)
K136 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-3.85 18.12 233.33 0.00 7.36 6.05	0.00 0.00 0.00 0.00 3.68	(2.92m) 10.67 233.33 0.00 6.77	4.26 -22.90 233.33 0.00 9.49 6.18	0.00 0.00 0.00 0.00 4.74	4ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/20/12(etriye)

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K135 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-5.39 28.70 233.33 0.00 11.99 6.80	0.00 0.00 0.00 0.00 5.99	(3.25m) 16.04 233.33 0.00 7.94	5.38 -28.84 233.33 0.00 12.07 6.80	0.00 0.00 0.00 0.00 6.03	4ø16(mon.) 4ø16(düz)+2ø12(göv.) 2ø20(sol üst ila.)+2ø20(sağ üst ila.) ø10/20/12(etriye)
K138 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-10.88 20.60 233.33 0.00 5.52 3.16	-1.28 -0.71 233.33 0.00 2.76	(2.91m) 4.14 233.33 0.00 5.08	13.73 -24.48 233.33 0.00 5.52 2.96	0.00 0.00 0.00 0.00 2.76	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/12(etriye)
K141 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.15 10.36 233.33 0.00 6.77 2.92	0.16 -2.35 233.33 0.00 3.38	(1.54m) -0.07 233.33 0.00 6.77	1.70 -7.82 233.33 0.00 6.77 2.52	-0.38 3.10 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/12(etriye)
K140 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-4.02 18.20 233.33 0.00 7.36 6.01	0.00 0.00 0.00 0.00 3.68	(2.90m) 10.68 233.33 0.00 6.77	4.18 -19.74 233.33 0.00 7.86 6.01	0.00 0.00 0.00 0.00 3.93	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø20(sol üst ila.)+1ø20(sağ üst ila.) ø10/20/12(etriye)
K139 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.64 13.49 233.33 0.00 5.52 3.48	0.00 0.00 0.00 0.00 2.76	(2.30m) 3.93 233.33 0.00 5.08	13.40 -24.10 233.33 0.00 5.52 2.98	0.00 0.00 0.00 0.00 2.76	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sağ üst ila.) ø10/20/12(etriye)
K142 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-23.56 29.48 233.33 0.00 5.08 2.74	0.56 -1.45 233.33 0.00 2.54	(5.81m) 0.87 233.33 0.00 5.08	1.42 -8.14 233.33 0.00 5.08 2.70	-0.02 2.01 233.33 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K143 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-3.49 18.20 233.33 0.00 7.50 4.57	0.00 0.00 0.00 0.00 3.75	(2.94m) 10.73 233.33 0.00 5.30	19.66 -38.59 233.33 0.00 9.78 4.95	0.00 0.00 0.00 0.00 4.89	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø20(sol üst ila.)+2ø20(sağ üst ila.) 1ø16(sağ alt ila.) ø10/20/12(etriye)
K145 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-1.33 6.01 233.33 0.00 5.08 2.47	0.00 0.00 0.00 0.00 2.54	(1.61m) 2.96 233.33 0.00 5.08	1.97 -7.81 233.33 0.00 5.08 2.12	0.00 0.00 0.00 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K144 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.55 21.63 233.33 0.00 9.86 4.87	0.00 0.00 0.00 0.00 4.93	(3.02m) 9.72 233.33 0.00 5.08	16.40 -31.50 233.33 0.00 7.71 4.48	0.00 0.00 0.00 0.00 3.85	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 2ø20(sol üst ila.)+2ø16(sağ üst ila.) 1ø16(sol alt ila.) ø10/20/12(etriye)
K146 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-14.01 25.12 233.33 0.00 5.60 3.10	0.00 0.00 0.00 0.00 2.80	(2.87m) 4.16 233.33 0.00 5.08	10.50 -20.11 233.33 0.00 5.52 3.19	1.41 0.33 233.33 0.00 2.76	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K147 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-12.57 21.62 233.33 0.00 5.52 2.70	0.00 0.00 0.00 0.00 2.76	(2.64m) 3.75 233.33 0.00 5.08	1.62 -12.85 233.33 0.00 5.67 3.34	0.23 0.99 233.33 0.00 2.83	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sağ üst ila.) ø10/12(etriye)
K127 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-0.12 0.46 233.33 0.00 5.08 2.17	0.00 0.00 0.00 0.00 2.54	(1.43m) 0.18 233.33 0.00 5.08	0.12 -0.46 233.33 0.00 5.08 2.17	0.00 0.00 0.00 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K130 Mduz. (tm)	-0.26	0.00	(2.88m)	0.26	0.00	3ø16(mon.)
A4 ✓ max M (tm)	1.79	0.00	0.79	-1.79	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/20/12(etriye)
Asw (cm ²)	4.64			4.54		
K148 Mduz. (tm)	-33.72	0.00	(5.77m)	1.46	-0.02	3ø16(mon.)
A4 ✓ max M (tm)	40.49	0.00	1.04	-8.37	2.03	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	2.68			2.76		
K134 Mduz. (tm)	-4.45	0.00	(2.98m)	25.22	0.00	3ø16(mon.)
A4 ✓ max M (tm)	20.49	0.00	13.27	-49.07	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	2ø16(sol üst ila.)+4ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	8.22	4.11	6.56	12.52	6.26	ø10/20/12(etriye)
Asw (cm ²)	4.63			4.89		
K149 Mduz. (tm)	-0.46	0.26	(0.78m)	10.69	-3.39	3ø16(mon.)
A4 ✓ max M (tm)	2.92	-2.73	0.42	-11.63	3.71	3ø16(düz)+2ø16(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	1.07			1.31		
K201 Mduz. (tm)	-1.84	0.00	(3.02m)	2.72	0.63	3ø16(mon.)
A4 ✓ max M (tm)	19.41	0.00	6.59	-15.24	0.37	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	233.33	4ø16(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	8.92	4.46	6.77	7.36	3.68	ø10/20/12(etriye)
Asw (cm ²)	6.49			5.74		
K202 Mduz. (tm)	-2.72	0.00	(2.96m)	2.79	0.00	3ø16(mon.)
A4 ✓ max M (tm)	15.99	0.00	6.83	-16.28	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø20(sol üst ila.)+1ø20(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.36	3.68	6.77	7.36	3.68	ø10/20/12(etriye)
Asw (cm ²)	6.14			5.87		
K203 Mduz. (tm)	-2.72	0.00	(2.90m)	2.80	0.00	3ø16(mon.)
A4 ✓ max M (tm)	15.77	0.00	7.20	-16.07	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø20(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.36	3.68	6.77	7.36	3.68	ø10/20/12(etriye)
Asw (cm ²)	6.01			6.01		
K204 Mduz. (tm)	-1.80	0.66	(1.29m)	19.72	-6.32	3ø16(mon.)
A4 ✓ max M (tm)	9.30	-5.65	0.65	-26.05	9.18	3ø20(düz)+2ø20(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.38	6.77	6.77	3.38	ø10/12(etriye)
Asw (cm ²)	2.35			2.87		
K205 Mduz. (tm)	-13.50	6.55	(3.67m)	12.70	-5.42	3ø16(mon.)
A4 ✓ max M (tm)	15.71	-8.21	0.29	-15.60	7.53	3ø16(düz)+2ø16(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	1.13			1.25		
K206 Mduz. (tm)	-9.81	5.01	(2.92m)	1.69	-0.97	4ø16(mon.)
A4 ✓ max M (tm)	18.23	-10.63	0.68	-9.84	7.33	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.38	6.77	6.77	3.38	ø10/12(etriye)
Asw (cm ²)	3.56			2.69		
K207 Mduz. (tm)	-2.01	-0.10	(2.87m)	2.00	0.09	4ø16(mon.)
A4 ✓ max M (tm)	13.46	-3.01	4.60	-13.81	3.33	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.36	3.68	6.77	7.36	3.68	ø10/20/12(etriye)
Asw (cm ²)	5.94			5.94		
K208 Mduz. (tm)	-2.08	-0.24	(3.08m)	10.32	1.38	3ø20(mon.)
A4 ✓ max M (tm)	14.16	-1.88	5.61	-23.25	0.69	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.11	3.06	5.08	6.56	3.28	ø10/20/12(etriye)
Asw (cm ²)	4.81			4.71		

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K209 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-0.81 5.78 233.33 0.00 6.77 7.33	-0.20 -0.96 233.33 0.00 3.38	(3.38m) 6.32 233.33 0.00 6.77	0.80 -5.99 233.33 0.00 6.77 7.18	0.19 1.56 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K211 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.11 8.00 233.33 0.00 6.77 2.54	0.55 -4.62 233.33 0.00 3.38	(1.27m) -0.87 233.33 0.00 6.77	1.82 -10.62 233.33 0.00 6.77 2.68	-0.92 6.52 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø20(göv.) 1ø16(sol üst ila.) ø10/12(etriye)
K210 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.70 15.70 233.33 0.00 7.36 5.87	-0.56 -1.42 233.33 0.00 3.68	(2.84m) 7.19 233.33 0.00 6.77	1.86 -19.31 233.33 0.00 8.85 6.36	0.00 0.00 233.33 0.00 4.43	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø20(sol üst ila.) ø10/20/12(etriye)
K253 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.90 20.92 233.33 0.00 9.69 7.86	0.00 0.00 0.00 0.00 4.84	(3.62m) 12.96 233.33 0.00 6.77	1.57 -10.94 233.33 0.00 6.77 6.65	0.36 1.44 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 2ø20(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K212 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-0.77 4.93 233.33 0.00 6.77 5.31	-0.10 -2.11 233.33 0.00 3.38	(2.49m) 4.21 233.33 0.00 6.77	0.94 -9.72 233.33 0.00 6.77 7.15	0.18 1.23 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/20/12(etriye)
K213 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-0.93 10.08 233.33 0.00 6.77 6.56	-0.06 -2.52 233.33 0.00 3.38	(3.05m) 2.86 233.33 0.00 6.77	0.93 -9.99 233.33 0.00 6.77 5.90	0.06 2.56 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K214 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-0.94 9.55 233.33 0.00 6.77 6.77	-0.14 -1.76 233.33 0.00 3.38	(3.14m) 4.27 233.33 0.00 6.77	0.80 -5.55 233.33 0.00 6.77 5.47	0.08 2.38 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sağ üst ila.) ø10/20/12(etriye)
K215 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-0.94 5.93 233.33 0.00 5.08 1.71	0.33 -4.24 233.33 0.00 2.54	(1.16m) 0.81 233.33 0.00 5.08	1.21 -10.32 233.33 0.00 5.52 2.88	-0.20 4.01 233.33 0.00 2.76	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sağ alt ila.) ø10/12(etriye)
K250 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.00 17.67 233.33 0.00 8.01 4.58	0.00 0.00 0.00 0.00 4.00	(2.84m) 8.98 233.33 0.00 5.08	2.10 -19.00 233.33 0.00 8.67 4.77	0.00 0.00 0.00 0.00 4.34	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 2ø20(sol üst ila.)+2ø20(sağ üst ila.) 1ø16(sağ alt ila.) ø10/20/12(etriye)
K251 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.02 18.53 233.33 0.00 8.47 4.77	0.00 0.00 0.00 0.00 4.23	(2.96m) 8.39 233.33 0.00 5.08	2.03 -18.50 233.33 0.00 8.44 4.58	0.00 0.00 0.00 0.00 4.22	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/20/12(etriye)
K252 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.43 19.52 233.33 0.00 8.78 5.07	0.00 0.00 0.00 0.00 4.39	(3.14m) 11.35 233.33 0.00 5.61	1.73 -9.19 233.33 0.00 5.08 4.11	0.54 0.05 233.33 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 2ø20(sol üst ila.) 1ø16(sol alt ila.) ø10/20/12(etriye)
K217 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-25.26 32.10 233.33 0.00 5.08 2.80	2.50 -5.12 233.33 0.00 2.54	(5.00m) 1.63 233.33 0.00 5.08	1.85 -10.07 233.33 0.00 5.35 2.64	-0.20 4.68 233.33 0.00 2.67	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K216 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.21 11.89 233.33 0.00 5.52 3.22	0.12 -4.51 233.33 0.00 2.76	(2.14m) 2.72 233.33 0.00 5.08	10.19 -20.64 233.33 0.00 5.52 3.24	-0.14 4.52 233.33 0.00 2.76	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K218 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-7.38 47.06 233.33 0.00 21.26 13.12	0.00 0.00 0.00 0.00 10.63	(4.08m) 27.74 233.33 0.00 13.80	4.20 -41.08 233.33 0.00 19.61 11.54	0.00 0.00 0.00 0.00 9.81	4ø20(mon.)+4ø20(sag mon.) 5ø20(düz)+2ø12(göv.) 4ø20(sol üst ila.)+4ø16(sağ üst ila.) ø10/20/12(etriye)
K219 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.40 16.67 233.33 0.00 7.71 5.00	0.11 -1.24 233.33 0.00 3.86	(2.36m) -2.56 233.33 0.00 6.77	1.40 -11.12 233.33 0.00 6.77 2.25	-0.27 4.90 233.33 0.00 3.38	4ø20(mon.)+4ø20(sol mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sağ alt ila.) ø10/15(etriye)
K220 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-3.95 21.81 233.33 0.00 9.20 4.57	0.00 0.00 0.00 0.00 4.60	(2.94m) 12.40 233.33 0.00 6.13	21.61 -42.99 233.33 0.00 11.13 4.95	0.00 0.00 0.00 0.00 5.57	3ø20(mon.) 2ø20(düz)+2ø12(göv.) 1ø20(sol üst ila.)+2ø20(sağ üst ila.) 1ø16(sağ alt ila.) ø10/20/15(etriye)
K221 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-7.34 46.61 233.33 0.00 21.02 12.89	0.00 0.00 0.00 0.00 10.51	(4.08m) 27.64 233.33 0.00 13.75	4.20 -41.53 233.33 0.00 19.87 11.61	0.00 0.00 0.00 0.00 9.94	4ø20(mon.)+4ø20(sag mon.) 5ø20(düz)+2ø12(göv.) 4ø20(sol üst ila.)+4ø16(sağ üst ila.) ø10/20/12(etriye)
K222 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.30 16.00 233.33 0.00 7.42 4.81	0.07 -0.74 233.33 0.00 3.71	(2.27m) -3.22 233.33 0.00 6.77	0.80 -9.69 233.33 0.00 6.77 2.43	-0.28 3.23 233.33 0.00 3.38	4ø20(mon.)+4ø20(sol mon.) 3ø20(düz)+2ø12(göv.) ø10/15(etriye)
K223 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.31 19.77 233.33 0.00 8.98 4.75	0.00 0.00 0.00 0.00 4.49	(2.95m) 13.35 233.33 0.00 6.60	22.51 -45.35 233.33 0.00 11.95 5.11	0.00 0.00 0.00 0.00 5.97	3ø20(mon.) 3ø20(düz)+2ø12(göv.) 1ø20(sol üst ila.)+2ø20(sağ üst ila.) ø10/20/15(etriye)
K224 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-3.22 16.96 233.33 0.00 7.36 5.02	-0.41 -3.39 233.33 0.00 3.68	(2.47m) 7.32 233.33 0.00 6.77	20.94 -38.51 233.33 0.00 8.92 5.20	0.00 0.00 0.00 0.00 4.46	3ø20(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.)+2ø16(sağ üst ila.) ø10/20/15(etriye)
K225 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-12.31 21.59 233.33 0.00 5.52 3.08	2.32 -5.67 233.33 0.00 2.76	(3.51m) 1.41 233.33 0.00 5.08	0.98 -8.84 233.33 0.00 5.10 2.36	-0.25 4.09 233.33 0.00 2.55	3ø20(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/12(etriye)
K226 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.21 17.62 233.33 0.00 7.88 4.69	0.00 0.00 0.00 0.00 3.94	(2.91m) 11.54 233.33 0.00 5.70	21.48 -42.05 233.33 0.00 10.68 5.17	0.00 0.00 0.00 0.00 5.34	3ø20(mon.) 3ø16(düz)+2ø12(göv.) 2ø16(sol üst ila.)+4ø16(sağ üst ila.) 1ø16(sağ alt ila.) ø10/20/12(etriye)
K228 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.44 15.72 233.33 0.00 6.74 3.96	0.00 0.00 0.00 0.00 3.37	(2.48m) 6.12 233.33 0.00 5.08	1.07 -9.43 233.33 0.00 5.44 5.22	0.00 0.00 0.00 0.00 2.72	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/20/12(etriye)
K229 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.09 22.76 233.33 0.00 10.57 7.36	0.00 0.00 0.00 0.00 5.28	(3.40m) 11.26 233.33 0.00 6.77	3.28 -20.51 233.33 0.00 8.74 6.69	0.00 0.00 0.00 0.00 4.37	4ø20(mon.) 3ø20(düz)+2ø12(göv.) 1ø20(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/15(etriye)

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K231 Mduz. (tm)	-1.91	0.00	(1.40m)	1.91	0.00	3ø16(mon.)
A4 ✓ max M (tm)	7.22	0.00	2.69	-7.22	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	2.12			2.12		
K232 Mduz. (tm)	-31.03	4.95	(6.00m)	1.58	-0.41	3ø16(mon.)
A4 ✓ max M (tm)	39.21	-7.29	1.86	-9.54	5.26	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.32	2.66	5.08	5.18	2.59	ø10/12(etriye)
Asw (cm ²)	3.07			2.37		
K233 Mduz. (tm)	-4.16	0.00	(3.17m)	4.32	0.00	4ø20(mon.)
A4 ✓ max M (tm)	22.77	0.00	13.48	-25.15	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø16(sol üst ila.)+2ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	9.46	4.73	6.77	10.65	5.33	ø10/20/15(etriye)
Asw (cm ²)	6.61			6.76		
K237 Mduz. (tm)	-8.42	4.64	(1.89m)	2.21	-1.01	4ø16(mon.)
A4 ✓ max M (tm)	16.06	-9.81	-0.66	-11.01	5.88	3ø16(düz)+4ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.55	5.08	5.52	2.76	ø10/12(etriye)
Asw (cm ²)	1.42			2.15		
K236 Mduz. (tm)	-3.64	0.00	(2.95m)	3.82	0.00	4ø20(mon.)
A4 ✓ max M (tm)	21.01	0.00	10.69	-23.18	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø16(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	8.81	4.41	6.77	9.86	4.93	ø10/20/15(etriye)
Asw (cm ²)	6.12			6.12		
K235 Mduz. (tm)	-5.36	0.00	(3.25m)	4.71	0.00	4ø20(mon.)
A4 ✓ max M (tm)	28.57	0.00	16.32	-28.90	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	2ø20(sol üst ila.)+2ø20(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	11.93	5.97	8.08	12.47	6.23	ø10/20/15(etriye)
Asw (cm ²)	6.80			6.80		
K238 Mduz. (tm)	-12.58	0.45	(2.91m)	15.49	0.66	3ø20(mon.)
A4 ✓ max M (tm)	25.31	-5.39	4.13	-29.24	3.86	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.45	3.22	5.08	6.99	3.50	ø10/12(etriye)
Asw (cm ²)	3.16			2.96		
K241 Mduz. (tm)	-2.98	0.61	(1.71m)	1.98	-0.75	3ø20(mon.)
A4 ✓ max M (tm)	14.92	-5.41	0.52	-9.29	7.51	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.36	3.68	6.77	6.77	3.38	ø10/11(etriye)
Asw (cm ²)	3.31			2.13		
K240 Mduz. (tm)	-3.73	0.00	(2.90m)	3.82	0.00	3ø20(mon.)
A4 ✓ max M (tm)	20.64	0.00	10.49	-21.49	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø20(sol üst ila.)+1ø20(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	8.57	4.28	6.77	8.97	4.49	ø10/20/15(etriye)
Asw (cm ²)	6.01			6.01		
K239 Mduz. (tm)	-2.93	-0.15	(2.30m)	15.03	1.66	3ø20(mon.)
A4 ✓ max M (tm)	16.04	-2.92	4.05	-28.47	1.63	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.65	3.33	5.08	6.82	3.41	ø10/20/12(etriye)
Asw (cm ²)	3.48			2.98		
K242 Mduz. (tm)	-31.46	5.40	(5.89m)	1.64	-0.42	3ø16(mon.)
A4 ✓ max M (tm)	39.45	-7.95	1.22	-9.98	5.48	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.19	2.60	5.08	5.43	2.71	ø10/12(etriye)
Asw (cm ²)	2.87			2.57		
K243 Mduz. (tm)	-3.66	0.00	(2.94m)	17.98	0.00	3ø16(mon.)
A4 ✓ max M (tm)	20.37	0.00	10.62	-38.96	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	2ø20(sol üst ila.)+3ø20(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sol alt ila.)+1ø16(sağ alt ila.)
As (cm ²)	8.57	4.28	5.24	10.91	5.45	ø10/20/12(etriye)
Asw (cm ²)	4.57			4.95		

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K245 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-1.33 6.01 233.33 0.00 5.08 2.47	0.00 0.00 0.00 0.00 2.54	(1.61m) 2.96 233.33 0.00 5.08	1.97 -7.81 233.33 0.00 5.08 2.12	0.00 0.00 0.00 0.00 2.54	3ø16(mon.)+3ø16(sag mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K244 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.41 24.82 233.33 0.00 11.71 4.93	0.00 0.00 0.00 0.00 5.86	(3.05m) 9.69 233.33 0.00 5.08	15.02 -32.11 233.33 0.00 8.78 4.42	0.00 0.00 0.00 0.00 4.39	3ø16(mon.)+3ø16(sol mon.) 3ø16(düz)+2ø12(göv.) 2ø20(sol üst ila.)+2ø20(sağ üst ila.) 1ø20(sol alt ila.)+1ø16(sağ alt ila.) ø10/20/12(etriye)
K246 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-15.38 29.12 233.33 0.00 6.98 3.10	-1.27 -2.53 233.33 0.00 3.49	(2.87m) 4.17 233.33 0.00 5.08	12.11 -24.62 233.33 0.00 6.33 3.19	-0.03 4.30 233.33 0.00 3.17	3ø20(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K247 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-13.45 24.27 233.33 0.00 5.52 2.53	-0.12 -4.78 233.33 0.00 2.76	(2.54m) 3.81 233.33 0.00 5.08	1.94 -17.29 233.33 0.00 7.84 3.50	0.05 3.43 233.33 0.00 3.92	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø20(sol üst ila.)+2ø16(sağ üst ila.) ø10/12(etriye)
K227 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-0.12 0.46 233.33 0.00 5.08 2.17	0.00 0.00 0.00 0.00 2.54	(1.43m) 0.18 233.33 0.00 5.08	0.12 -0.46 233.33 0.00 5.08 2.17	0.00 0.00 0.00 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol alt ila.) ø10/12(etriye)
K230 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-0.26 1.79 233.33 0.00 5.08 4.64	0.00 0.00 0.00 0.00 2.54	(2.88m) 0.79 233.33 0.00 5.08	0.26 -1.79 233.33 0.00 5.08 4.54	0.00 0.00 0.00 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/20/12(etriye)
K248 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-42.49 51.63 233.33 0.00 5.52 2.94	0.54 -2.30 233.33 0.00 2.76	(5.93m) 1.57 233.33 0.00 5.08	1.58 -9.44 233.33 0.00 5.11 2.50	0.05 5.67 233.33 0.00 2.77	2ø20(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/12(etriye)
K234 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-3.98 21.68 233.33 0.00 9.11 4.63	0.00 0.00 0.00 0.00 4.55	(2.98m) 13.10 233.33 0.00 6.47	25.14 -49.40 233.33 0.00 12.75 5.56	0.00 0.00 0.00 0.00 6.38	2ø20(mon.) 3ø20(düz)+2ø12(göv.) 2ø20(sol üst ila.)+4ø20(sağ üst ila.) 1ø16(sol alt ila.)+1ø16(sağ alt ila.) ø10/20/15(etriye)
K249 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-0.58 5.67 233.33 0.00 5.08 0.92	0.80 -5.99 233.33 0.00 2.56	(0.69m) 0.56 233.33 0.00 5.08	17.88 -19.71 233.33 0.00 5.08 1.46	-9.69 10.83 233.33 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø16(göv.) ø10/12(etriye)
K301 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.93 21.26 233.33 0.00 9.85 6.63	-0.43 -0.34 233.33 0.00 4.92	(3.07m) 6.61 233.33 0.00 6.77	2.75 -15.51 233.33 0.00 7.36 5.61	0.51 1.67 233.33 0.00 3.68	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 4ø16(sol üst ila.) ø10/20/12(etriye)
K302 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.79 16.62 233.33 0.00 7.36 6.07	0.00 0.00 0.00 0.00 3.68	(2.93m) 6.88 233.33 0.00 6.77	2.87 -17.06 233.33 0.00 7.36 5.94	0.00 0.00 0.00 0.00 3.68	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø20(sol üst ila.)+1ø20(sağ üst ila.) ø10/20/12(etriye)
K303 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.78 16.44 233.33 0.00 7.36 5.94	-0.66 -0.48 233.33 0.00 3.68	(2.87m) 7.25 233.33 0.00 6.77	2.91 -17.24 233.33 0.00 7.36 6.07	0.00 0.00 0.00 0.00 3.68	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø20(sağ üst ila.) ø10/20/12(etriye)

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K304 Mduz. (tm)	-2.01	0.94	(1.26m)	22.78	-8.74	3ø16(mon.)
A4 ✓ max M (tm)	10.63	-7.33	0.69	-30.41	12.54	3ø20(düz)+2ø20(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.38	6.77	6.77	3.38	ø10/12(etriye)
Asw (cm ²)	2.29			2.92		
K305 Mduz. (tm)	-15.82	9.24	(3.63m)	15.20	-7.59	3ø16(mon.)
A4 ✓ max M (tm)	18.60	-11.48	0.30	-18.81	10.34	3ø16(düz)+2ø16(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	1.07			1.31		
K306 Mduz. (tm)	-11.88	6.14	(3.12m)	1.82	-1.10	4ø16(mon.)
A4 ✓ max M (tm)	22.45	-13.13	0.89	-10.48	9.21	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.87	3.45	6.77	6.77	4.01	ø10/12(etriye)
Asw (cm ²)	4.01			2.25		
K307 Mduz. (tm)	-2.10	-0.06	(2.90m)	2.02	0.02	4ø16(mon.)
A4 ✓ max M (tm)	14.41	-3.41	4.64	-14.01	4.13	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.36	3.68	6.77	7.36	3.68	ø10/20/12(etriye)
Asw (cm ²)	6.00			5.87		
K308 Mduz. (tm)	-2.13	-0.17	(3.08m)	10.68	1.12	3ø20(mon.)
A4 ✓ max M (tm)	14.57	-2.66	5.63	-24.57	1.63	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.30	3.15	5.08	7.06	3.53	ø10/20/12(etriye)
Asw (cm ²)	4.81			4.71		
K309 Mduz. (tm)	-0.81	-0.19	(3.35m)	0.81	0.19	3ø16(mon.)
A4 ✓ max M (tm)	5.85	-1.09	6.29	-6.21	1.49	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.38	6.77	6.77	3.38	ø10/20/12(etriye)
Asw (cm ²)	7.25			7.25		
K311 Mduz. (tm)	-1.22	0.54	(1.53m)	1.73	-0.87	3ø16(mon.)
A4 ✓ max M (tm)	8.69	-4.58	-0.56	-9.99	7.44	3ø20(düz)+2ø20(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.38	6.77	6.77	3.38	ø10/12(etriye)
Asw (cm ²)	3.12			2.10		
K310 Mduz. (tm)	-2.74	-0.52	(2.87m)	1.88	0.41	3ø16(mon.)
A4 ✓ max M (tm)	16.24	-1.94	7.27	-19.65	0.40	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø20(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.36	3.68	6.77	9.02	4.51	ø10/20/12(etriye)
Asw (cm ²)	5.94			6.30		
K353 Mduz. (tm)	-1.89	0.00	(3.62m)	1.58	0.35	3ø16(mon.)
A4 ✓ max M (tm)	21.05	0.00	12.95	-11.23	1.38	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	233.33	2ø20(sol üst ila.)+1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	9.76	4.88	6.77	6.77	3.38	ø10/20/12(etriye)
Asw (cm ²)	7.86			6.65		
K312 Mduz. (tm)	-0.79	-0.09	(2.49m)	0.95	0.16	3ø16(mon.)
A4 ✓ max M (tm)	5.31	-2.28	4.15	-10.04	1.61	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.38	6.77	6.77	3.38	ø10/20/12(etriye)
Asw (cm ²)	5.31			7.15		
K313 Mduz. (tm)	-0.95	-0.04	(3.05m)	0.96	0.04	3ø16(mon.)
A4 ✓ max M (tm)	10.49	-2.99	2.97	-10.34	3.02	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.38	6.77	6.77	3.38	ø10/20/12(etriye)
Asw (cm ²)	6.56			5.90		
K314 Mduz. (tm)	-0.94	-0.12	(3.08m)	0.82	0.07	3ø16(mon.)
A4 ✓ max M (tm)	9.80	-2.16	4.25	-6.01	2.47	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.38	6.77	6.77	3.38	ø10/20/12(etriye)
Asw (cm ²)	6.64			5.60		

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K315 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-0.99 6.19 233.33 0.00 5.08 1.84	0.32 -4.13 233.33 0.00 2.54	(1.23m) 0.87 233.33 0.00 5.08	1.18 -10.00 233.33 0.00 5.52 2.75	-0.23 4.45 233.33 0.00 2.76	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K350 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.04 18.33 233.33 0.00 8.35 4.62	0.00 0.00 0.00 0.00 4.18	(2.87m) 8.91 233.33 0.00 5.08	2.11 -19.34 233.33 0.00 8.85 4.72	0.00 0.00 0.00 0.00 4.43	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 2ø20(sol üst ila.)+2ø20(sağ üst ila.) 1ø16(sol alt ila.)+1ø16(sağ alt ila.) ø10/20/12(etriye)
K351 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.04 18.93 233.33 0.00 8.67 4.77	0.00 0.00 0.00 0.00 4.33	(2.96m) 8.50 233.33 0.00 5.08	2.05 -18.83 233.33 0.00 8.61 4.58	0.00 0.00 0.00 0.00 4.30	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sağ alt ila.) ø10/20/12(etriye)
K352 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.12 19.62 233.33 0.00 9.00 5.07	0.00 0.00 0.00 0.00 4.50	(3.14m) 11.34 233.33 0.00 5.60	1.75 -9.58 233.33 0.00 5.08 4.11	0.53 0.13 233.33 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 2ø20(sol üst ila.) ø10/20/12(etriye)
K317 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-27.67 35.71 233.33 0.00 5.22 2.86	4.27 -7.84 233.33 0.00 2.61	(5.03m) 1.69 233.33 0.00 5.08	1.96 -10.79 233.33 0.00 5.52 2.58	-0.36 5.83 233.33 0.00 2.76	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K316 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.23 11.95 233.33 0.00 5.52 3.17	0.18 -4.89 233.33 0.00 2.76	(2.12m) 2.73 233.33 0.00 5.08	10.48 -21.59 233.33 0.00 5.60 3.29	-0.28 5.01 233.33 0.00 2.80	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K318 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-7.37 46.52 233.33 0.00 20.95 13.06	0.00 0.00 0.00 0.00 10.47	(4.08m) 28.10 233.33 0.00 13.98	4.20 -40.88 233.33 0.00 19.50 11.60	0.00 0.00 0.00 0.00 9.75	4ø20(mon.) 5ø20(düz)+2ø12(göv.) 4ø20(sol üst ila.)+4ø16(sağ üst ila.) ø10/20/12(etriye)
K319 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.48 17.77 233.33 0.00 8.25 4.96	0.21 -2.18 233.33 0.00 4.12	(2.34m) -2.87 233.33 0.00 6.77	1.56 -12.82 233.33 0.00 7.33 2.29	-0.41 6.04 233.33 0.00 3.66	4ø20(mon.) 3ø20(düz)+2ø12(göv.) ø10/15(etriye)
K320 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-4.01 22.63 233.33 0.00 9.61 4.51	0.00 0.00 0.00 0.00 4.80	(2.91m) 12.48 233.33 0.00 6.17	19.87 -43.61 233.33 0.00 12.45 5.01	0.00 0.00 0.00 0.00 6.23	3ø20(mon.) 2ø20(düz)+2ø12(göv.) 1ø20(sol üst ila.)+2ø20(sağ üst ila.) 1ø16(sol alt ila.)+1ø16(sağ alt ila.) ø10/20/15(etriye)
K321 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-7.33 45.97 233.33 0.00 20.65 12.64	0.00 0.00 0.00 0.00 10.32	(4.04m) 27.99 233.33 0.00 13.93	4.21 -41.47 233.33 0.00 19.84 11.85	0.00 0.00 0.00 0.00 9.92	4ø20(mon.)+4ø20(sag mon.) 5ø20(düz)+2ø12(göv.) 4ø20(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K322 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.38 17.30 233.33 0.00 8.05 4.77	0.15 -1.62 233.33 0.00 4.02	(2.26m) -3.52 233.33 0.00 6.77	0.88 -11.03 233.33 0.00 6.77 2.47	-0.37 4.08 233.33 0.00 3.38	4ø20(mon.)+4ø20(sol mon.) 3ø20(düz)+2ø12(göv.) ø10/15(etriye)
K323 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.35 20.54 233.33 0.00 9.37 4.75	0.00 0.00 0.00 0.00 4.69	(2.95m) 13.41 233.33 0.00 6.63	22.61 -45.60 233.33 0.00 12.04 5.11	0.00 0.00 0.00 0.00 6.02	3ø20(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.)+2ø20(sağ üst ila.) ø10/20/15(etriye)

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K324 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-3.39 18.49 233.33 0.00 7.62 4.95	-0.21 -5.34 233.33 0.00 3.81	(2.44m) 7.41 233.33 0.00 6.77	21.96 -41.33 233.33 0.00 9.87 5.27	3.19 0.00 233.33 0.00 4.94	3ø20(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.)+2ø16(sağ üst ila.) ø10/20/15(etriye)
K325 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-14.23 25.43 233.33 0.00 5.65 3.21	3.30 -7.67 233.33 0.00 2.83	(3.58m) 1.51 233.33 0.00 5.08	1.04 -9.51 233.33 0.00 5.51 2.23	-0.39 5.64 233.33 0.00 2.76	3ø20(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/12(etriye)
K326 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.24 18.23 233.33 0.00 8.19 4.69	0.00 0.00 0.00 0.00 4.09	(2.91m) 11.65 233.33 0.00 5.75	21.63 -42.55 233.33 0.00 10.88 5.17	0.00 0.00 0.00 0.00 5.44	3ø20(mon.) 3ø16(düz)+2ø12(göv.) 2ø16(sol üst ila.)+4ø16(sağ üst ila.) 1ø16(sağ alt ila.) ø10/20/12(etriye)
K328 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.44 15.72 233.33 0.00 6.74 3.96	0.00 0.00 0.00 0.00 3.37	(2.48m) 6.12 233.33 0.00 5.08	1.07 -9.43 233.33 0.00 5.44 5.22	0.00 0.00 0.00 0.00 2.72	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/20/12(etriye)
K329 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.15 24.28 233.33 0.00 11.35 7.44	-0.43 -0.24 233.33 0.00 5.68	(3.43m) 11.30 233.33 0.00 6.77	3.36 -21.55 233.33 0.00 9.24 6.61	0.63 1.17 233.33 0.00 4.62	4ø20(mon.) 3ø20(düz)+2ø12(göv.) 2ø20(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/15(etriye)
K331 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-1.91 7.22 233.33 0.00 5.08 2.12	0.00 0.00 0.00 0.00 2.54	(1.40m) 2.69 233.33 0.00 5.08	1.91 -7.22 233.33 0.00 5.08 2.12	0.00 0.00 0.00 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K332 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-35.49 45.19 233.33 0.00 5.52 3.20	7.59 -10.82 233.33 0.00 2.76	(6.08m) 1.99 233.33 0.00 5.08	1.69 -10.59 233.33 0.00 5.52 2.24	-0.64 7.09 233.33 0.00 3.18	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/12(etriye)
K333 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-4.24 23.68 233.33 0.00 9.91 6.61	0.00 0.00 0.00 0.00 4.95	(3.17m) 13.67 233.33 0.00 6.77	4.43 -26.48 233.33 0.00 11.31 6.76	0.00 0.00 0.00 0.00 5.65	4ø20(mon.) 3ø20(düz)+2ø12(göv.) 2ø16(sağ üst ila.) ø10/20/15(etriye)
K337 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-9.51 18.32 233.33 0.00 5.52 1.54	5.42 -11.36 233.33 0.00 2.93	(1.96m) -0.74 233.33 0.00 5.08	2.37 -11.84 233.33 0.00 5.52 2.03	-1.24 7.05 233.33 0.00 2.86	4ø16(mon.) 3ø16(düz)+4ø12(göv.) ø10/12(etriye)
K336 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-3.75 22.19 233.33 0.00 9.38 6.12	-0.87 -0.08 233.33 0.00 4.69	(2.95m) 10.77 233.33 0.00 6.77	3.89 -24.03 233.33 0.00 10.28 6.12	0.00 0.00 0.00 0.00 5.14	4ø20(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/20/15(etriye)
K335 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-4.76 28.93 233.33 0.00 12.45 6.80	0.00 0.00 0.00 0.00 6.23	(3.25m) 16.39 233.33 0.00 8.11	4.82 -30.26 233.33 0.00 13.15 6.80	0.00 0.00 0.00 0.00 6.58	4ø20(mon.) 3ø20(düz)+2ø12(göv.) 2ø20(sol üst ila.)+2ø20(sağ üst ila.) ø10/20/15(etriye)
K338 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-13.32 27.35 233.33 0.00 7.14 3.16	1.21 -7.47 233.33 0.00 3.57	(2.91m) 4.13 233.33 0.00 5.08	16.27 -31.37 233.33 0.00 7.71 2.96	-0.10 5.93 233.33 0.00 3.85	3ø20(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/12(etriye)

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K341 Mduz. (tm)	-3.28	0.70	(1.87m)	1.99	-1.05	3ø20(mon.)
A4 ✓ max M (tm)	16.82	-5.96	0.70	-9.26	8.82	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.36	3.68	6.77	6.77	3.84	ø10/11(etriye)
Asw (cm ²)	3.67			1.77		
K340 Mduz. (tm)	-3.83	-0.88	(2.90m)	3.90	0.00	3ø20(mon.)
A4 ✓ max M (tm)	21.69	-0.25	10.63	-22.43	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	0.00	1ø20(sol üst ila.)+2ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	9.07	4.54	6.77	9.43	4.71	ø10/20/15(etriye)
Asw (cm ²)	6.01			6.01		
K339 Mduz. (tm)	-3.06	-0.01	(2.27m)	15.64	1.10	3ø20(mon.)
A4 ✓ max M (tm)	16.99	-4.07	4.01	-30.25	3.23	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.09	3.54	5.08	7.44	3.72	ø10/20/12(etriye)
Asw (cm ²)	3.43			3.03		
K342 Mduz. (tm)	-35.42	7.95	(5.97m)	1.76	-0.62	3ø16(mon.)
A4 ✓ max M (tm)	44.89	-11.42	1.33	-10.86	7.07	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.52	2.76	5.08	5.52	3.18	ø10/12(etriye)
Asw (cm ²)	3.00			2.44		
K343 Mduz. (tm)	-3.72	-0.84	(2.94m)	18.49	0.00	3ø16(mon.)
A4 ✓ max M (tm)	20.99	-0.61	10.71	-40.66	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	0.00	2ø20(sol üst ila.)+3ø20(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sol alt ila.)+1ø16(sağ alt ila.)
As (cm ²)	8.88	4.44	5.29	11.58	5.79	ø10/20/12(etriye)
Asw (cm ²)	4.57			4.95		
K345 Mduz. (tm)	-1.33	0.00	(1.61m)	1.97	0.00	3ø16(mon.)+3ø16(sag mon.)
A4 ✓ max M (tm)	6.01	0.00	2.96	-7.81	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	2.47			2.12		
K344 Mduz. (tm)	-2.51	0.00	(3.08m)	15.19	0.00	3ø16(mon.)+3ø16(sol mon.)
A4 ✓ max M (tm)	26.92	0.00	9.69	-32.68	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	2ø16(sol üst ila.)+2ø20(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sol alt ila.)+1ø16(sağ alt ila.)
As (cm ²)	12.84	6.42	5.08	9.00	4.50	ø10/20/12(etriye)
Asw (cm ²)	4.98			4.36		
K346 Mduz. (tm)	-16.00	-0.56	(2.84m)	12.86	-0.68	3ø20(mon.)
A4 ✓ max M (tm)	30.71	-4.48	4.20	-26.58	6.11	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.50	3.75	5.08	6.98	3.49	ø10/20/12(etriye)
Asw (cm ²)	3.05			3.24		
K347 Mduz. (tm)	-13.81	0.93	(2.47m)	2.13	-0.05	3ø16(mon.)
A4 ✓ max M (tm)	25.17	-7.40	3.90	-19.99	4.76	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø20(sol üst ila.)+3ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sağ alt ila.)
As (cm ²)	5.73	3.19	5.08	9.19	4.60	ø10/12(etriye)
Asw (cm ²)	2.41			3.62		
K327 Mduz. (tm)	-0.12	0.00	(1.43m)	0.12	0.00	3ø16(mon.)
A4 ✓ max M (tm)	0.46	0.00	0.18	-0.46	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	2.17			2.17		
K330 Mduz. (tm)	-0.26	0.00	(2.88m)	0.26	0.00	3ø16(mon.)
A4 ✓ max M (tm)	1.79	0.00	0.79	-1.79	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/20/12(etriye)
Asw (cm ²)	4.64			4.54		
K348 Mduz. (tm)	-47.47	2.92	(6.04m)	1.66	-0.24	2ø20(mon.)
A4 ✓ max M (tm)	58.22	-5.49	1.80	-10.10	8.10	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sağ alt ila.)
As (cm ²)	5.52	2.76	5.08	5.49	3.88	ø10/12(etriye)
Asw (cm ²)	3.13			2.31		

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K334 Mduz. (tm)	-4.04	-0.95	(2.94m)	25.42	0.00	2ø20(mon.)
A4 ✓ max M (tm)	22.26	-0.32	13.21	-50.26	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	0.00	2ø20(sol üst ila.)+4ø20(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sağ alt ila.)
As (cm ²)	9.39	4.70	6.53	13.08	6.54	ø10/20/15(etriye)
Asw (cm ²)	4.57			6.31		
K349 Mduz. (tm)	-0.86	0.96	(0.61m)	22.06	-12.97	3ø16(mon.)
A4 ✓ max M (tm)	7.23	-8.02	0.72	-24.29	14.44	3ø16(düz)+2ø16(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	3.49	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	0.78			1.60		
K401 Mduz. (tm)	-1.99	-0.42	(3.10m)	2.75	0.44	3ø16(mon.)
A4 ✓ max M (tm)	22.43	-0.67	6.63	-15.76	2.48	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	4ø16(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	10.44	5.22	6.77	7.36	3.68	ø10/20/12(etriye)
Asw (cm ²)	6.69			5.55		
K402 Mduz. (tm)	-2.85	-0.63	(2.96m)	2.92	0.66	3ø16(mon.)
A4 ✓ max M (tm)	17.54	-0.54	6.87	-17.68	0.36	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø20(sol üst ila.)+1ø20(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.41	3.70	6.77	7.44	3.72	ø10/20/12(etriye)
Asw (cm ²)	6.14			5.87		
K403 Mduz. (tm)	-2.82	-0.61	(2.87m)	2.97	0.66	3ø16(mon.)
A4 ✓ max M (tm)	16.90	-1.14	7.29	-17.76	0.36	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø20(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.36	3.68	6.77	7.46	3.73	ø10/20/12(etriye)
Asw (cm ²)	5.94			6.07		
K404 Mduz. (tm)	-2.10	1.05	(1.21m)	24.12	-9.82	3ø16(mon.)
A4 ✓ max M (tm)	11.15	-7.94	0.68	-32.37	14.10	3ø20(düz)+2ø20(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.40	6.77	6.77	3.38	ø10/12(etriye)
Asw (cm ²)	2.17			3.04		
K405 Mduz. (tm)	-16.81	10.58	(3.60m)	16.51	-8.58	3ø16(mon.)
A4 ✓ max M (tm)	19.88	-13.15	0.30	-20.44	11.56	3ø16(düz)+2ø16(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	1.01			1.37		
K406 Mduz. (tm)	-13.21	6.75	(3.31m)	1.88	-1.35	4ø16(mon.)
A4 ✓ max M (tm)	24.97	-14.26	1.20	-11.04	11.05	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.36	3.71	6.77	6.77	4.81	ø10/12(etriye)
Asw (cm ²)	4.45			1.80		
K407 Mduz. (tm)	-2.21	0.01	(2.93m)	2.07	-0.08	4ø16(mon.)
A4 ✓ max M (tm)	15.74	-4.23	4.64	-14.77	5.29	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.36	3.68	6.77	7.36	3.68	ø10/20/12(etriye)
Asw (cm ²)	6.07			5.81		
K408 Mduz. (tm)	-2.17	-0.11	(3.08m)	10.95	0.91	3ø20(mon.)
A4 ✓ max M (tm)	15.15	-3.37	5.63	-25.48	2.29	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.58	3.29	5.08	7.40	3.70	ø10/20/12(etriye)
Asw (cm ²)	4.81			4.71		
K409 Mduz. (tm)	-0.81	-0.18	(3.35m)	0.82	0.18	3ø16(mon.)
A4 ✓ max M (tm)	6.15	-1.32	6.19	-6.69	1.72	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.38	6.77	6.77	3.38	ø10/20/12(etriye)
Asw (cm ²)	7.25			7.25		
K411 Mduz. (tm)	-1.32	0.58	(1.65m)	1.77	-1.04	3ø16(mon.)
A4 ✓ max M (tm)	9.41	-4.91	-0.48	-10.37	8.36	3ø20(düz)+2ø20(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.38	6.77	6.77	3.62	ø10/12(etriye)
Asw (cm ²)	3.39			1.82		

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K410 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.80 16.88 233.33 0.00 7.36 5.94	-0.46 -2.60 233.33 0.00 3.68	(2.87m) 7.43 233.33 0.00 6.77	1.91 -20.23 233.33 0.00 9.31 6.30	0.38 1.11 233.33 0.00 4.66	3ø16(mon.)+3ø16(sag mon.) 3ø20(düz)+2ø12(göv.) 1ø20(sol üst ila.)+2ø20(sağ üst ila.) ø10/20/12(etriye)
K453 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.91 21.68 233.33 0.00 10.08 7.86	0.00 0.00 0.00 0.00 5.04	(3.62m) 12.82 233.33 0.00 6.77	1.61 -11.83 233.33 0.00 6.77 6.65	0.33 1.72 233.33 0.00 3.38	3ø16(mon.)+3ø16(sol mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sağ üst ila.) ø10/20/12(etriye)
K412 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-0.81 5.63 233.33 0.00 6.77 5.31	-0.07 -2.55 233.33 0.00 3.38	(2.49m) 4.14 233.33 0.00 6.77	0.97 -10.38 233.33 0.00 6.77 7.15	0.14 1.99 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K413 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-0.97 10.91 233.33 0.00 6.77 6.56	-0.02 -3.42 233.33 0.00 3.38	(3.05m) 3.00 233.33 0.00 6.77	0.98 -10.75 233.33 0.00 6.77 5.90	0.02 3.45 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sağ üst ila.) ø10/20/12(etriye)
K414 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-0.96 10.11 233.33 0.00 6.77 6.64	-0.10 -2.60 233.33 0.00 3.38	(3.08m) 4.26 233.33 0.00 6.77	0.85 -6.41 233.33 0.00 6.77 5.60	0.05 2.77 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sağ üst ila.) ø10/20/12(etriye)
K415 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-1.06 6.77 233.33 0.00 5.08 1.91	0.36 -4.50 233.33 0.00 2.54	(1.28m) 0.89 233.33 0.00 5.08	1.21 -10.33 233.33 0.00 5.52 2.68	-0.29 5.06 233.33 0.00 2.76	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K450 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.07 18.89 233.33 0.00 8.64 4.62	-0.51 -0.36 233.33 0.00 4.32	(2.87m) 8.89 233.33 0.00 5.08	2.13 -19.77 233.33 0.00 9.07 4.72	0.00 0.00 233.33 0.00 4.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 2ø20(sol üst ila.)+2ø20(sağ üst ila.) 1ø16(sol alt ila.)+1ø16(sağ alt ila.) ø10/20/12(etriye)
K451 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.06 19.32 233.33 0.00 8.87 4.77	0.00 0.00 0.00 0.00 4.43	(2.96m) 8.53 233.33 0.00 5.08	2.07 -19.21 233.33 0.00 8.81 4.58	0.00 0.00 233.33 0.00 4.40	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sağ alt ila.) ø10/20/12(etriye)
K452 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.14 19.90 233.33 0.00 9.14 5.07	0.00 0.00 0.00 0.00 4.57	(3.14m) 11.35 233.33 0.00 5.61	1.78 -9.93 233.33 0.00 5.30 4.11	0.52 0.39 233.33 0.00 2.65	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 2ø20(sol üst ila.) ø10/20/12(etriye)
K417 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-29.30 37.91 233.33 0.00 5.52 2.86	5.52 -9.53 233.33 0.00 2.76	(5.03m) 1.72 233.33 0.00 5.08	2.04 -11.59 233.33 0.00 5.52 2.58	-0.47 6.82 233.33 0.00 3.14	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K416 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.29 12.55 233.33 0.00 5.52 3.13	0.25 -5.66 233.33 0.00 2.76	(2.09m) 2.73 233.33 0.00 5.08	10.82 -22.42 233.33 0.00 5.86 3.33	-0.54 5.62 233.33 0.00 2.93	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K418 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-7.42 47.90 233.33 0.00 21.73 13.48	0.00 0.00 0.00 0.00 10.87	(4.08m) 27.79 233.33 0.00 13.83	4.17 -40.65 233.33 0.00 19.38 11.19	0.00 0.00 233.33 0.00 9.69	4ø20(mon.) 5ø20(düz)+2ø12(göv.) 4ø20(sol üst ila.)+4ø16(sağ üst ila.) ø10/20/12(etriye)

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K419 Mduz. (tm)	-1.50	0.28	(2.30m)	1.72	-0.82	4ø20(mon.)
A4 ✓ max M (tm)	17.94	-3.05	-2.76	-13.85	6.46	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	8.32	4.16	6.77	7.36	3.68	ø10/15(etriye)
Asw (cm ²)	4.88			2.37		
K420 Mduz. (tm)	-4.05	-0.94	(2.94m)	20.06	0.00	3ø20(mon.)
A4 ✓ max M (tm)	23.28	-0.25	12.44	-44.34	0.00	2ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	0.00	1ø20(sol üst ila.)+2ø20(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sol alt ila.)+1ø16(sağ alt ila.)
As (cm ²)	9.95	4.97	6.15	12.77	6.38	ø10/20/15(etriye)
Asw (cm ²)	4.57			4.95		
K421 Mduz. (tm)	-7.38	0.00	(4.08m)	4.18	0.00	4ø20(mon.)
A4 ✓ max M (tm)	47.28	0.00	27.69	-41.12	0.00	5ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	4ø20(sol üst ila.)+4ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	21.39	10.70	13.78	19.65	9.82	ø10/20/12(etriye)
Asw (cm ²)	13.16			11.35		
K422 Mduz. (tm)	-1.40	0.22	(2.24m)	0.97	-0.41	4ø20(mon.)
A4 ✓ max M (tm)	17.43	-2.46	-3.35	-11.80	4.70	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	8.11	4.05	6.77	7.04	3.52	ø10/15(etriye)
Asw (cm ²)	4.73			2.51		
K423 Mduz. (tm)	-2.38	0.00	(2.95m)	22.58	0.00	3ø20(mon.)
A4 ✓ max M (tm)	21.05	0.00	13.38	-45.60	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø20(sol üst ila.)+2ø20(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	9.64	4.82	6.61	12.06	6.03	ø10/20/15(etriye)
Asw (cm ²)	4.75			5.11		
K424 Mduz. (tm)	-3.48	-0.14	(2.44m)	22.29	2.75	3ø20(mon.)
A4 ✓ max M (tm)	19.42	-5.99	7.35	-42.52	1.28	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+2ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	8.06	4.03	6.77	10.33	5.16	ø10/20/15(etriye)
Asw (cm ²)	4.95			5.27		
K425 Mduz. (tm)	-15.27	3.78	(3.66m)	1.06	-0.46	3ø20(mon.)
A4 ✓ max M (tm)	27.29	-8.65	1.64	-9.77	6.41	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.08	3.04	5.08	5.52	2.93	ø10/12(etriye)
Asw (cm ²)	3.33			2.10		
K426 Mduz. (tm)	-2.25	-0.58	(2.91m)	21.73	0.00	3ø20(mon.)
A4 ✓ max M (tm)	18.39	-0.08	11.70	-42.90	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	0.00	2ø16(sol üst ila.)+4ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sağ alt ila.)
As (cm ²)	8.27	4.13	5.77	11.01	5.51	ø10/20/12(etriye)
Asw (cm ²)	4.69			5.17		
K428 Mduz. (tm)	-2.44	0.00	(2.48m)	1.07	0.00	3ø16(mon.)
A4 ✓ max M (tm)	15.72	0.00	6.12	-9.43	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.74	3.37	5.08	5.44	2.72	ø10/20/12(etriye)
Asw (cm ²)	3.96			5.22		
K429 Mduz. (tm)	-2.17	-0.39	(3.40m)	3.45	0.59	4ø20(mon.)
A4 ✓ max M (tm)	24.91	-1.18	11.16	-22.88	1.75	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø20(sol üst ila.)+1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	11.68	5.84	6.77	9.90	4.95	ø10/20/15(etriye)
Asw (cm ²)	7.36			6.69		
K431 Mduz. (tm)	-1.72	0.00	(1.26m)	1.01	0.00	3ø16(mon.)
A4 ✓ max M (tm)	6.14	0.00	2.08	-4.26	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	1.89			2.36		
K432 Mduz. (tm)	-38.03	8.73	(6.16m)	1.73	-0.75	3ø16(mon.)
A4 ✓ max M (tm)	48.30	-12.41	2.18	-10.83	7.98	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.52	2.76	5.08	5.52	3.57	ø10/12(etriye)
Asw (cm ²)	3.33			2.11		

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K433 Mduz. (tm)	-4.26	0.00	(3.17m)	4.51	0.00	4ø20(mon.)
A4 ✓ max M (tm)	23.91	0.00	13.61	-27.74	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	2ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	10.02	5.01	6.77	11.94	5.97	ø10/20/15(etriye)
Asw (cm ²)	6.61			6.76		
K437 Mduz. (tm)	-9.89	5.45	(2.02m)	2.35	-1.30	4ø16(mon.)
A4 ✓ max M (tm)	19.07	-11.47	-0.75	-11.72	7.37	3ø16(düz)+4ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.52	2.97	5.08	5.52	2.99	ø10/12(etriye)
Asw (cm ²)	1.65			1.92		
K436 Mduz. (tm)	-3.80	-0.84	(2.98m)	3.91	0.00	4ø20(mon.)
A4 ✓ max M (tm)	22.71	-0.42	10.78	-24.16	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	0.00	1ø16(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	9.63	4.81	6.77	10.34	5.17	ø10/20/15(etriye)
Asw (cm ²)	6.18			6.05		
K435 Mduz. (tm)	-4.74	0.00	(3.22m)	4.91	0.00	4ø20(mon.)
A4 ✓ max M (tm)	28.76	0.00	16.30	-31.65	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	2ø20(sol üst ila.)+2ø20(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	12.37	6.19	8.07	13.86	6.93	ø10/20/15(etriye)
Asw (cm ²)	6.73			6.87		
K438 Mduz. (tm)	-13.58	1.46	(2.91m)	16.52	-0.36	3ø20(mon.)
A4 ✓ max M (tm)	28.01	-8.12	4.13	-32.05	6.63	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.35	3.67	5.08	7.94	3.97	ø10/12(etriye)
Asw (cm ²)	3.16			2.96		
K441 Mduz. (tm)	-3.51	0.72	(1.94m)	1.28	-1.91	3ø20(mon.)
A4 ✓ max M (tm)	18.16	-6.10	0.88	-9.16	10.28	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.39	3.69	6.77	6.77	4.13	ø10/11(etriye)
Asw (cm ²)	3.84			1.60		
K440 Mduz. (tm)	-3.90	-0.82	(2.90m)	3.96	0.85	3ø20(mon.)
A4 ✓ max M (tm)	22.56	-0.90	10.57	-23.15	0.77	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø20(sol üst ila.)+1ø20(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	9.50	4.75	6.77	9.78	4.89	ø10/20/15(etriye)
Asw (cm ²)	6.01			6.01		
K439 Mduz. (tm)	-3.10	0.05	(2.30m)	15.98	0.87	3ø20(mon.)
A4 ✓ max M (tm)	17.62	-4.73	4.06	-31.26	3.84	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.40	3.70	5.08	7.81	3.90	ø10/20/12(etriye)
Asw (cm ²)	3.48			2.98		
K442 Mduz. (tm)	-37.87	9.29	(6.00m)	1.81	-0.30	3ø16(mon.)
A4 ✓ max M (tm)	47.86	-13.13	1.41	-11.53	8.24	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.52	2.76	5.08	5.52	3.92	ø10/12(etriye)
Asw (cm ²)	3.07			2.37		
K443 Mduz. (tm)	-3.76	-0.79	(2.94m)	18.73	0.00	3ø16(mon.)
A4 ✓ max M (tm)	21.51	-1.33	10.70	-41.37	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	0.00	2ø20(sol üst ila.)+3ø20(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sol alt ila.)+1ø16(sağ alt ila.)
As (cm ²)	9.13	4.57	5.28	11.84	5.92	ø10/20/12(etriye)
Asw (cm ²)	4.57			4.95		
K445 Mduz. (tm)	-1.09	0.00	(1.49m)	0.94	0.00	3ø16(mon.)+3ø16(sag mon.)
A4 ✓ max M (tm)	4.59	0.00	1.92	-4.18	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	2.27			2.32		
K444 Mduz. (tm)	-2.56	0.00	(3.08m)	15.18	2.70	3ø16(mon.)+3ø16(sol mon.)
A4 ✓ max M (tm)	27.89	0.00	9.69	-32.86	0.16	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	233.33	2ø20(sol üst ila.)+2ø20(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø20(sol alt ila.)+1ø16(sağ alt ila.)
As (cm ²)	13.36	6.68	5.08	9.10	4.55	ø10/20/12(etriye)
Asw (cm ²)	4.98			4.36		

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K446 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-16.16 31.43 233.33 0.00 7.80 3.05	-0.31 -5.17 233.33 0.00 3.90	(2.84m) 4.18 233.33 0.00 5.08	13.14 -27.29 233.33 0.00 7.20 3.24	-0.88 6.65 233.33 0.00 3.60	3ø20(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K447 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-13.89 25.57 233.33 0.00 5.90 2.37	1.41 -8.54 233.33 0.00 3.52	(2.45m) 3.95 233.33 0.00 5.08	2.23 -21.36 233.33 0.00 9.89 3.66	-0.08 5.34 233.33 0.00 4.95	3ø16(mon.)+3ø16(sag mon.) 3ø16(düz)+2ø12(göv.) 1ø20(sol üst ila.)+2ø16(sağ üst ila.) 1ø16(sağ alt ila.) ø10/12(etriye)
K427 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-0.12 0.46 233.33 0.00 5.08 2.17	0.00 0.00 0.00 0.00 2.54	(1.43m) 0.18 233.33 0.00 5.08	0.12 -0.46 233.33 0.00 5.08 2.17	0.00 0.00 0.00 0.00 2.54	3ø16(mon.)+3ø16(sol mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K430 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-0.26 1.79 233.33 0.00 5.08 4.64	0.00 0.00 0.00 0.00 2.54	(2.88m) 0.79 233.33 0.00 5.08	0.26 -1.79 233.33 0.00 5.08 4.54	0.00 0.00 0.00 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/20/12(etriye)
K448 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-50.30 61.98 233.33 0.00 5.90 3.20	4.06 -7.02 233.33 0.00 2.95	(6.08m) 1.92 233.33 0.00 5.08	1.68 -10.44 233.33 0.00 5.52 2.24	-0.41 9.50 233.33 0.00 4.50	2ø20(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.) 1ø16(sağ alt ila.) ø10/12(etriye)
K434 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-4.05 22.44 233.33 0.00 9.49 4.57	-0.89 -1.03 233.33 0.00 4.74	(2.94m) 13.26 233.33 0.00 6.55	25.60 -50.83 233.33 0.00 13.31 6.61	0.00 0.00 0.00 0.00 6.65	2ø20(mon.) 3ø20(düz)+2ø12(göv.) 2ø20(sol üst ila.)+4ø20(sağ üst ila.) 1ø16(sağ alt ila.) ø10/20/15(etriye)
K449 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-0.97 7.92 233.33 0.00 5.08 0.64	1.02 -9.13 233.33 0.00 4.02	(0.53m) 0.87 233.33 0.00 5.08	24.23 -26.62 233.33 0.00 5.08 1.74	-14.28 15.82 233.33 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø16(göv.) ø10/12(etriye)
K501 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.40 17.97 233.33 0.00 8.39 6.82	-0.16 -2.15 233.33 0.00 4.20	(3.16m) 4.67 233.33 0.00 6.77	1.81 -10.47 233.33 0.00 6.77 5.41	0.03 3.20 233.33 0.00 3.38	4ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø20(sol üst ila.) ø10/20/12(etriye)
K502 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.79 10.91 233.33 0.00 6.77 6.07	-0.32 -0.80 233.33 0.00 3.38	(2.93m) 5.32 233.33 0.00 6.77	1.90 -11.75 233.33 0.00 6.77 5.94	0.36 0.49 233.33 0.00 3.38	4ø16(mon.) 3ø20(düz)+2ø12(göv.) ø10/20/12(etriye)
K503 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.87 11.95 233.33 0.00 6.77 5.81	-0.18 -2.10 233.33 0.00 3.38	(2.81m) 5.34 233.33 0.00 6.77	2.05 -13.78 233.33 0.00 7.36 6.20	0.26 1.76 233.33 0.00 3.68	4ø16(mon.) 3ø20(düz)+2ø12(göv.) ø10/20/12(etriye)
K504 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.14 10.89 233.33 0.00 6.77 2.06	1.10 -8.44 233.33 0.00 3.63	(1.16m) 1.08 233.33 0.00 6.77	25.68 -34.15 233.33 0.00 6.77 3.16	-9.50 13.92 233.33 0.00 3.38	4ø16(mon.) 3ø20(düz)+2ø20(göv.) ø10/12(etriye)
K505 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-14.28 17.24 233.33 0.00 5.08 0.83	12.62 -15.45 233.33 0.00 2.54	(3.49m) 0.19 233.33 0.00 5.08	14.62 -18.44 233.33 0.00 5.08 1.55	-10.21 13.34 233.33 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø16(göv.) ø10/12(etriye)

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K506 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-11.44 22.69 233.33 0.00 7.32 4.10	5.59 -12.66 233.33 0.00 3.66	(3.16m) 0.60 233.33 0.00 6.77	1.71 -9.25 233.33 0.00 6.77 2.15	-1.02 7.65 233.33 0.00 3.38	4ø16(mon.) 3ø20(düz)+2ø12(göv.) ø10/12(etriye)
K507 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.90 11.96 233.33 0.00 6.77 5.94	-0.21 -1.78 233.33 0.00 3.38	(2.87m) 4.85 233.33 0.00 6.77	1.89 -12.44 233.33 0.00 6.85 5.94	0.20 2.27 233.33 0.00 3.43	4ø16(mon.) 3ø20(düz)+2ø12(göv.) ø10/20/12(etriye)
K508 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.08 13.62 233.33 0.00 5.83 4.75	-0.19 -2.09 233.33 0.00 2.91	(3.05m) 5.71 233.33 0.00 5.08	10.62 -24.60 233.33 0.00 7.11 4.77	1.29 1.41 233.33 0.00 3.56	2ø20(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø20(sağ üst ila.) ø10/20/12(etriye)
K509 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-0.78 4.82 233.33 0.00 6.77 7.25	-0.22 -0.70 233.33 0.00 3.38	(3.35m) 6.91 233.33 0.00 6.77	0.78 -5.20 233.33 0.00 6.77 7.25	0.22 1.23 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K511 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-0.86 7.36 233.33 0.00 6.77 5.21	0.40 -2.96 233.33 0.00 3.38	(2.70m) -0.40 233.33 0.00 6.77	1.02 -5.90 233.33 0.00 6.77 0.00	-0.84 6.66 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø20(göv.) 1ø16(sol üst ila.) ø10/12(etriye)
K510 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-1.61 9.65 233.33 0.00 6.77 5.61	-0.10 -3.06 233.33 0.00 3.38	(2.73m) 5.24 233.33 0.00 6.77	1.35 -15.98 233.33 0.00 7.38 6.62	0.23 0.07 233.33 0.00 3.69	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/20/12(etriye)
K553 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.14 18.99 233.33 0.00 8.54 7.79	0.00 0.00 233.33 0.00 4.27	(3.59m) 13.84 233.33 0.00 6.84	1.55 -9.98 233.33 0.00 6.77 6.72	0.41 0.84 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 2ø20(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K512 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-0.73 4.16 233.33 0.00 6.77 5.25	-0.14 -1.47 233.33 0.00 3.38	(2.47m) 4.33 233.33 0.00 6.77	0.90 -8.74 233.33 0.00 6.77 7.22	0.21 0.36 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K513 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-0.87 8.93 233.33 0.00 6.77 6.63	-0.13 -1.24 233.33 0.00 3.38	(3.07m) 2.99 233.33 0.00 6.77	0.87 -8.60 233.33 0.00 6.77 5.84	0.13 1.33 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sağ üst ila.) ø10/20/12(etriye)
K514 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-0.89 8.59 233.33 0.00 6.77 6.64	-0.18 -0.94 233.33 0.00 3.38	(3.08m) 4.41 233.33 0.00 6.77	0.77 -5.09 233.33 0.00 6.77 5.60	0.12 1.66 233.33 0.00 3.38	3ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sağ üst ila.) ø10/20/12(etriye)
K515 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-0.61 4.68 233.33 0.00 5.08 1.58	0.33 -3.51 233.33 0.00 2.54	(1.08m) 0.05 233.33 0.00 5.08	0.79 -7.68 233.33 0.00 5.08 3.01	-0.26 3.43 233.33 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K550 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-1.41 12.54 233.33 0.00 5.61 4.58	-0.30 -0.65 233.33 0.00 2.81	(2.84m) 7.18 233.33 0.00 5.08	1.51 -14.07 233.33 0.00 6.36 4.77	0.00 0.00 233.33 0.00 3.18	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K551 Mduz. (tm)	-1.43	0.00	(2.99m)	1.44	0.00	3ø16(mon.)
A4 ✓ max M (tm)	13.68	0.00	6.56	-13.42	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.20	3.10	5.08	6.06	3.03	ø10/20/12(etriye)
Asw (cm ²)	4.82			4.53		
K552 Mduz. (tm)	-1.75	0.00	(3.11m)	1.24	0.31	3ø16(mon.)
A4 ✓ max M (tm)	14.42	0.00	8.90	-6.94	0.50	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	233.33	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.42	3.21	5.08	5.08	2.54	ø10/20/12(etriye)
Asw (cm ²)	5.03			4.15		
K517 Mduz. (tm)	-20.60	7.74	(5.10m)	1.40	-0.64	3ø16(mon.)
A4 ✓ max M (tm)	28.14	-12.38	1.02	-8.16	5.94	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.61	ø10/12(etriye)
Asw (cm ²)	2.97			2.46		
K516 Mduz. (tm)	-1.46	0.41	(2.04m)	7.45	-1.16	3ø16(mon.)
A4 ✓ max M (tm)	7.84	-4.56	1.86	-16.64	6.25	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.52	2.76	ø10/20/12(etriye)
Asw (cm ²)	3.04			3.42		
K518 Mduz. (tm)	-5.86	0.00	(4.04m)	3.40	0.00	4ø16(mon.)
A4 ✓ max M (tm)	35.08	0.00	25.71	-32.72	0.00	5ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	3ø20(sol üst ila.)+4ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	15.24	7.62	12.77	15.29	7.65	ø10/20/12(etriye)
Asw (cm ²)	8.59			8.64		
K519 Mduz. (tm)	-1.32	0.00	(2.48m)	1.07	-0.14	4ø16(mon.)
A4 ✓ max M (tm)	16.51	0.00	-3.54	-9.52	3.10	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	233.33	
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	7.67	3.83	6.77	6.77	3.38	ø10/12(etriye)
Asw (cm ²)	5.29			1.96		
K520 Mduz. (tm)	-3.03	-0.50	(2.87m)	15.66	0.00	3ø20(mon.)
A4 ✓ max M (tm)	17.03	-1.37	10.70	-35.98	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	0.00	2ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sağ alt ila.)
As (cm ²)	7.12	3.56	5.28	10.54	5.27	ø10/20/12(etriye)
Asw (cm ²)	4.45			5.07		
K521 Mduz. (tm)	-5.82	0.00	(4.00m)	3.41	0.00	4ø16(mon.)
A4 ✓ max M (tm)	34.40	0.00	25.59	-33.42	0.00	5ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	4ø16(sol üst ila.)+4ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	14.89	7.44	12.71	15.68	7.84	ø10/20/12(etriye)
Asw (cm ²)	8.50			8.73		
K522 Mduz. (tm)	-1.21	0.00	(2.41m)	0.59	-0.17	4ø16(mon.)
A4 ✓ max M (tm)	17.22	0.00	-4.20	-8.02	1.52	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	233.33	
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	8.10	4.05	6.77	6.77	3.38	ø10/12(etriye)
Asw (cm ²)	5.13			2.12		
K523 Mduz. (tm)	-1.76	-0.34	(2.91m)	17.79	0.00	3ø20(mon.)
A4 ✓ max M (tm)	15.26	-0.52	11.44	-36.70	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	0.00	2ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sağ alt ila.)
As (cm ²)	6.86	3.43	5.65	9.77	4.88	ø10/20/12(etriye)
Asw (cm ²)	4.69			5.17		
K524 Mduz. (tm)	-3.60	-0.14	(2.44m)	23.24	2.93	3ø20(mon.)
A4 ✓ max M (tm)	19.75	-6.46	7.75	-44.36	1.23	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+2ø20(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	8.17	4.09	6.77	10.80	5.40	ø10/20/15(etriye)
Asw (cm ²)	4.95			5.27		
K525 Mduz. (tm)	-15.71	3.38	(3.71m)	1.01	-0.48	3ø20(mon.)
A4 ✓ max M (tm)	28.06	-8.25	1.96	-8.45	6.64	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.25	3.13	5.08	5.08	3.03	ø10/12(etriye)
Asw (cm ²)	3.42			2.02		

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K526 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-1.69 14.32 233.33 0.00 6.40 4.63	-0.27 -1.90 233.33 0.00 3.20	(2.88m) 9.41 233.33 0.00 5.08	15.15 -34.32 233.33 0.00 9.91 5.23	0.00 0.00 0.00 0.00 4.96	3ø20(mon.) 3ø16(düz)+2ø12(göv.) 1ø20(sağ üst ila.) 1ø16(sağ alt ila.) ø10/20/12(etriye)
K528 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-2.27 14.74 233.33 0.00 6.31 3.96	0.00 0.00 0.00 0.00 3.16	(2.48m) 5.76 233.33 0.00 5.08	1.04 -9.08 233.33 0.00 5.22 5.22	0.00 0.00 0.00 0.00 2.61	3ø16(mon.)+4ø16(sag mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/20/12(etriye)
K529 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.22 25.62 233.33 0.00 12.04 7.59	-0.47 -0.10 233.33 0.00 6.02	(3.50m) 12.04 233.33 0.00 6.77	3.23 -18.74 233.33 0.00 7.84 6.46	0.60 1.42 233.33 0.00 3.92	4ø16(mon.)+3ø16(sol mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/12(etriye)
K531 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-0.47 1.95 233.33 0.00 5.08 2.15	0.00 0.00 0.00 0.00 2.54	(1.41m) 0.86 233.33 0.00 5.08	0.47 -1.95 233.33 0.00 5.08 2.10	0.00 0.00 0.00 0.00 2.54	3ø16(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K532 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-39.15 49.77 233.33 0.00 5.52 3.33	8.91 -12.75 233.33 0.00 2.76	(6.16m) 2.29 233.33 0.00 5.08	1.73 -10.51 233.33 0.00 5.52 2.11	-0.81 8.52 233.33 0.00 3.80	3ø16(mon.) 3ø16(düz)+2ø12(göv.) 1ø16(sol üst ila.) ø10/12(etriye)
K533 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-3.32 19.34 233.33 0.00 8.10 6.69	-0.64 -1.40 233.33 0.00 4.05	(3.20m) 11.78 233.33 0.00 6.77	3.39 -20.08 233.33 0.00 8.45 6.68	0.68 1.10 233.33 0.00 4.23	3ø20(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sol üst ila.)+1ø16(sağ üst ila.) ø10/20/15(etriye)
K537 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-9.45 18.09 233.33 0.00 5.52 1.65	4.71 -9.97 233.33 0.00 2.76	(2.02m) -0.81 233.33 0.00 5.08	2.24 -11.18 233.33 0.00 5.52 1.92	-1.11 6.42 233.33 0.00 2.76	3ø16(mon.) 3ø16(düz)+4ø12(göv.) 1ø16(sağ üst ila.) ø10/12(etriye)
K536 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-3.90 23.06 233.33 0.00 9.76 6.18	0.00 0.00 0.00 0.00 4.88	(2.98m) 11.25 233.33 0.00 6.77	4.00 -23.86 233.33 0.00 10.13 6.05	0.00 0.00 0.00 0.00 5.06	4ø20(mon.) 3ø20(düz)+2ø12(göv.) ø10/20/15(etriye)
K535 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-3.81 24.11 233.33 0.00 10.37 6.87	0.00 0.00 0.00 0.00 5.18	(3.28m) 14.53 233.33 0.00 7.18	3.69 -22.67 233.33 0.00 9.66 6.73	0.00 0.00 0.00 0.00 4.83	4ø20(mon.) 4ø16(düz)+2ø12(göv.) ø10/20/12(etriye)
K538 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=30 As' (cm ²) As (cm ²) Asw (cm ²)	-10.86 23.48 233.33 0.00 6.40 3.20	2.53 -9.45 233.33 0.00 3.41	(2.94m) 3.33 233.33 0.00 5.08	13.74 -27.27 233.33 0.00 6.87 2.91	-1.47 8.03 233.33 0.00 3.44	3ø20(mon.) 3ø16(düz)+2ø12(göv.) ø10/12(etriye)
K541 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.23 12.24 233.33 0.00 6.77 3.61	0.49 -4.14 233.33 0.00 3.38	(1.84m) 0.01 233.33 0.00 6.77	0.77 -6.13 233.33 0.00 6.77 1.83	-1.27 5.99 233.33 0.00 3.38	4ø16(mon.) 3ø20(düz)+2ø12(göv.) ø10/12(etriye)
K540 Mduz. (tm) A4 ✓ max M (tm) D=60 fcd (kg/cm ²) B=40 As' (cm ²) As (cm ²) Asw (cm ²)	-2.80 15.49 233.33 0.00 7.36 5.94	-0.54 -1.02 233.33 0.00 3.68	(2.87m) 9.27 233.33 0.00 6.77	2.92 -16.48 233.33 0.00 7.36 6.07	0.59 0.31 233.33 0.00 3.68	4ø16(mon.) 3ø20(düz)+2ø12(göv.) 1ø16(sağ üst ila.) ø10/20/12(etriye)

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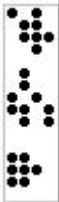
Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K539 Mduz. (tm)	-2.33	0.20	(2.32m)	12.45	0.15	3ø20(mon.)
A4 ✓ max M (tm)	13.60	-3.71	2.98	-25.01	4.47	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.69	2.84	5.08	6.36	3.18	ø10/20/12(etriye)
Asw (cm ²)	3.52			2.94		
K542 Mduz. (tm)	-35.53	7.03	(6.00m)	1.69	-0.62	3ø16(mon.)
A4 ✓ max M (tm)	45.76	-10.97	1.30	-9.58	6.26	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.52	2.76	5.08	5.13	2.78	ø10/12(etriye)
Asw (cm ²)	3.07			2.37		
K543 Mduz. (tm)	-2.71	-0.40	(2.87m)	14.08	0.00	3ø16(mon.)
A4 ✓ max M (tm)	14.69	-1.64	8.87	-32.59	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	0.00	1ø16(sol üst ila.)+3ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sağ alt ila.)
As (cm ²)	6.06	3.03	5.08	9.55	4.77	ø10/20/12(etriye)
Asw (cm ²)	4.45			5.07		
K545 Mduz. (tm)	-0.56	0.00	(1.52m)	0.56	0.00	3ø16(mon.)+3ø16(sag mon.)
A4 ✓ max M (tm)	2.51	0.00	1.15	-2.51	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	2.32			2.27		
K544 Mduz. (tm)	-2.03	-0.27	(3.18m)	11.26	0.59	3ø16(mon.)+3ø16(sol mon.)
A4 ✓ max M (tm)	24.26	-1.62	7.85	-24.88	3.96	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø20(sol üst ila.)+1ø20(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sol alt ila.)
As (cm ²)	11.61	5.80	5.08	6.92	3.46	ø10/20/12(etriye)
Asw (cm ²)	5.15			4.19		
K546 Mduz. (tm)	-13.48	0.77	(2.81m)	10.17	-2.06	3ø20(mon.)
A4 ✓ max M (tm)	26.56	-6.47	3.31	-22.35	8.20	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.64	3.32	5.08	6.16	3.08	ø10/20/12(etriye)
Asw (cm ²)	3.00			3.29		
K547 Mduz. (tm)	-11.42	2.64	(2.35m)	1.86	-0.27	3ø16(mon.)
A4 ✓ max M (tm)	21.22	-10.10	3.24	-19.56	6.28	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+3ø16(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sağ alt ila.)
As (cm ²)	5.52	3.68	5.08	9.11	4.56	ø10/12(etriye)
Asw (cm ²)	2.21			3.82		
K527 Mduz. (tm)	-0.12	0.00	(1.43m)	0.12	0.00	3ø16(mon.)
A4 ✓ max M (tm)	0.46	0.00	0.18	-0.46	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	2.17			2.17		
K530 Mduz. (tm)	-0.26	0.00	(2.88m)	0.26	0.00	3ø16(mon.)
A4 ✓ max M (tm)	1.79	0.00	0.79	-1.79	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/20/12(etriye)
Asw (cm ²)	4.64			4.54		
K548 Mduz. (tm)	-51.37	3.73	(6.16m)	0.47	-1.64	3ø20(mon.)
A4 ✓ max M (tm)	63.44	-6.86	2.33	-9.58	9.85	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.10	3.05	5.08	5.52	4.05	ø10/12(etriye)
Asw (cm ²)	3.33			2.11		
K534 Mduz. (tm)	-3.14	-0.40	(2.91m)	18.87	0.00	3ø20(mon.)
A4 ✓ max M (tm)	18.17	-3.02	11.16	-42.52	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	0.00	1ø16(sol üst ila.)+2ø20(sağ üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sağ alt ila.)
As (cm ²)	7.67	3.83	5.51	12.41	6.20	ø10/20/12(etriye)
Asw (cm ²)	4.51			5.01		
K549 Mduz. (tm)	-1.00	1.02	(0.44m)	25.11	-14.45	3ø16(mon.)
A4 ✓ max M (tm)	8.07	-9.62	1.04	-27.52	15.95	3ø16(düz)+4ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sol alt ila.)
As (cm ²)	5.08	4.28	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	0.49			1.88		

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Kiriş	üstMsol	altMsol	Mac.	üstMsağ	altMsağ	DONATI
K604 Mduz. (tm)	-1.30	1.47	(0.69m)	21.81	-10.51	4ø16(mon.)
A4 ✓ max M (tm)	7.72	-9.43	1.64	-29.26	15.41	3ø20(düz)+2ø20(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.94	6.77	6.77	3.38	ø10/12(etriye)
Asw (cm ²)	1.01			4.21		
K624 Mduz. (tm)	-1.76	0.37	(2.31m)	9.29	-1.60	4ø16(mon.)
A4 ✓ max M (tm)	11.06	-6.18	2.78	-20.95	7.55	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.38	6.77	7.36	3.68	ø10/20/12(etriye)
Asw (cm ²)	4.68			5.54		
K625 Mduz. (tm)	-12.07	2.37	(4.21m)	0.43	-0.57	3ø16(mon.)
A4 ✓ max M (tm)	22.49	-6.57	2.05	-3.90	5.86	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.52	2.76	5.08	5.08	2.61	ø10/12(etriye)
Asw (cm ²)	4.28			1.16		
K627 Mduz. (tm)	-0.12	0.00	(1.43m)	0.12	0.00	3ø16(mon.)
A4 ✓ max M (tm)	0.46	0.00	0.18	-0.46	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	2.17			2.17		
K630 Mduz. (tm)	-0.26	0.00	(2.88m)	0.26	0.00	3ø16(mon.)
A4 ✓ max M (tm)	1.79	0.00	0.79	-1.79	0.00	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/20/12(etriye)
Asw (cm ²)	4.64			4.54		
K628 Mduz. (tm)	-1.50	0.00	(2.88m)	1.50	0.00	3ø16(mon.)
A4 ✓ max M (tm)	11.99	0.00	6.02	-11.99	0.00	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	0.00	233.33	233.33	0.00	1ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.81	3.41	6.77	6.81	3.41	ø10/20/12(etriye)
Asw (cm ²)	6.18			6.05		
K632 Mduz. (tm)	-41.88	7.24	(6.35m)	0.86	-1.51	3ø16(mon.)
A4 ✓ max M (tm)	52.42	-11.14	3.68	-7.95	9.90	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.52	2.76	5.08	5.08	4.14	ø10/12(etriye)
Asw (cm ²)	3.65			1.79		
K637 Mduz. (tm)	-5.90	3.38	(2.14m)	1.29	-0.70	3ø16(mon.)
A4 ✓ max M (tm)	12.29	-7.54	-0.65	-6.11	4.05	3ø16(düz)+4ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	5.08	2.54	5.08	5.08	2.54	ø10/12(etriye)
Asw (cm ²)	1.86			1.71		
K636 Mduz. (tm)	-1.89	-0.26	(3.21m)	1.60	0.14	3ø16(mon.)
A4 ✓ max M (tm)	11.60	-1.08	5.63	-9.24	3.44	3ø20(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	1ø16(sol üst ila.)+1ø16(sağ üst ila.)
B=40 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	
As (cm ²)	6.77	3.38	6.77	6.77	3.38	ø10/20/12(etriye)
Asw (cm ²)	6.72			5.51		
K648 Mduz. (tm)	-34.36	7.14	(6.73m)	0.88	-1.00	3ø16(mon.)
A4 ✓ max M (tm)	43.49	-10.42	2.82	-6.55	10.27	3ø16(düz)+2ø12(göv.)
D=60 fcd (kg/cm ²)	233.33	233.33	233.33	233.33	233.33	
B=30 As' (cm ²)	0.00	0.00	0.00	0.00	0.00	1ø16(sağ alt ila.)
As (cm ²)	5.52	2.76	5.08	5.08	4.60	ø10/12(etriye)
Asw (cm ²)	4.30			1.14		

Ck : Kiriş üstüne oturan kolonların Dinamik Etki çarpanı

A4 : (Ba=Bax+0.3*Bay,Ba=0.3*Bax+Bay)



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Kolon			N (t)	minor M	major M	fcd	ρ	As	Donatı
S501	Polygon	X- (G+Q)	156.065	8.68	-75.70	233.3	0.0053	283.17	142ø12+39ø20
	kolon	X- (G+Q+E)	103.204	-24.79	-112.74	233.3	0.0053	283.17	ø10/[20]/10(etriye)
I:61		Y- (G+Q)	156.065	-45.10	-76.92	233.3	0.0053	283.17	Cx:1. Cy:1.
J:31	Hk=4.0m	Y- (G+Q+E)	102.781	-38.69	-481.98	233.3	0.0053	283.17	
	$\beta x = 1.000$	X- (G-E)	74.229	5.16	-19.57	233.3	0.0053	283.17	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	73.466	-24.61	39.50	233.3	0.0053	283.17	
S401	Polygon	X- (G+Q)	330.399	-123.68	-52.06	233.3	0.0053	283.17	142ø12+39ø20
	kolon	X- (G+Q+E)	280.915	3.56	330.91	233.3	0.0053	283.17	ø10/[20]/10(etriye)
I:31		Y- (G+Q)	330.399	-52.06	-123.68	233.3	0.0053	283.17	Cx:1. Cy:1.
J:10	Hk=4.0m	Y- (G+Q+E)	216.040	-42.20	-1309.61	233.3	0.0053	283.17	
	$\beta x = 1.000$	X- (G-E)	161.003	57.10	-71.82	233.3	0.0053	283.17	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	159.924	-17.59	-280.80	233.3	0.0053	283.17	
S301	Polygon	X- (G+Q)	512.371	-156.84	-58.41	233.3	0.0053	283.17	142ø12+39ø20
	kolon	X- (G+Q+E)	436.737	371.36	714.73	233.3	0.0053	283.17	ø10/[20]/10(etriye)
I:10		Y- (G+Q)	512.371	-55.29	-196.20	233.3	0.0053	283.17	Cx:1. Cy:1.
J:2	Hk=4.0m	Y- (G+Q+E)	336.122	-49.11	-2542.06	233.3	0.0053	283.17	
	$\beta x = 1.000$	X- (G-E)	249.081	-46.46	-338.28	233.3	0.0053	283.17	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	246.614	-13.72	-951.89	233.3	0.0053	283.17	
S201	Polygon	X- (G+Q)	686.927	-217.71	-78.31	233.3	0.0053	283.17	142ø12+39ø20
	kolon	X- (G+Q+E)	585.658	792.73	1214.66	233.3	0.0053	283.17	ø10/[20]/10(etriye)
I:2		Y- (G+Q)	686.927	-55.18	-265.91	233.3	0.0053	283.17	Cx:1. Cy:1.
J:1	Hk=4.0m	Y- (G+Q+E)	452.746	-59.99	-4040.91	233.3	0.0053	283.17	
	$\beta x = 1.000$	X- (G-E)	338.745	-378.90	-720.00	233.3	0.0053	283.17	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	335.861	-15.60	-1873.20	233.3	0.0053	283.17	
S101	Polygon	X- (G+Q)	795.399	413.96	-90.68	233.3	0.0064	340.61	115ø12+67ø20
	kolon	X- (G+Q+E)	686.840	-371.66	1673.09	233.3	0.0064	340.61	ø10/[20]/10(etriye)
I:1		Y- (G+Q)	795.399	-23.23	413.96	233.3	0.0064	340.61	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	826.828	89.03	-4571.36	233.3	0.0064	340.61	
Hcr✓	$\beta x = 1.000$	X- (G-E)	369.350	-652.68	-1230.52	233.3	0.0064	340.61	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	156.442	-21.39	-2109.97	233.3	0.0064	340.61	
S602	Polygon	X- (G+Q)	256.638	83.18	70.83	233.3	0.0054	451.22	235ø12+59ø20
	kolon	X- (G+Q+E)	185.062	-15.58	3070.10	233.3	0.0054	451.22	ø10/[15]/10(etriye)
I:105		Y- (G+Q)	256.638	32.52	83.18	233.3	0.0054	451.22	Cx:1. Cy:1.
J:67	Hk=4.5m	Y- (G+Q+E)	187.224	-11.65	2587.83	233.3	0.0054	451.22	
	$\beta x = 1.000$	X- (G-E)	135.126	37.14	15.24	233.3	0.0054	451.22	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	127.287	10.73	82.59	233.3	0.0054	451.22	
S502	Polygon	X- (G+Q)	546.201	-176.06	150.75	233.3	0.0054	451.22	235ø12+59ø20
	kolon	X- (G+Q+E)	384.887	-137.27	5782.18	233.3	0.0054	451.22	ø10/[15]/10(etriye)
I:67		Y- (G+Q)	546.201	12.40	253.69	233.3	0.0054	451.22	Cx:1. Cy:1.
J:49	Hk=4.0m	Y- (G+Q+E)	397.984	-15.02	4873.88	233.3	0.0054	451.22	
	$\beta x = 1.000$	X- (G-E)	278.487	66.89	304.12	233.3	0.0054	451.22	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	266.295	4.22	-226.40	233.3	0.0054	451.22	
S402	Polygon	X- (G+Q)	841.247	-370.28	232.18	233.3	0.0059	493.32	200ø12+85ø20
	kolon	X- (G+Q+E)	588.669	-413.16	8019.65	233.3	0.0059	493.32	ø10/[15]/10(etriye)
I:49		Y- (G+Q)	841.247	28.72	450.18	233.3	0.0059	493.32	Cx:1. Cy:1.
J:45	Hk=4.0m	Y- (G+Q+E)	612.583	-28.29	6759.87	233.3	0.0059	493.32	
Hcr✓	$\beta x = 1.000$	X- (G-E)	431.972	134.25	1366.01	233.3	0.0059	493.32	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	407.157	2.14	-1051.91	233.3	0.0059	493.32	
S302	Polygon	X- (G+Q)	1126.172	-487.62	310.82	233.3	0.0059	493.32	200ø12+85ø20
	kolon	X- (G+Q+E)	786.585	-760.11	8019.65	233.3	0.0059	493.32	ø10/[14]/10(etriye)
I:45		Y- (G+Q)	1126.172	40.96	644.81	233.3	0.0059	493.32	Cx:1. Cy:1.
J:43	Hk=4.0m	Y- (G+Q+E)	819.933	-51.33	6759.87	233.3	0.0059	493.32	
Hcr✓	$\beta x = 1.000$	X- (G-E)	584.113	281.05	3134.84	233.3	0.0059	493.32	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	549.503	1.20	-2483.21	233.3	0.0059	493.32	
S202	Polygon	X- (G+Q)	1397.601	-713.32	385.74	233.3	0.0059	493.32	200ø12+85ø20
	kolon	X- (G+Q+E)	976.697	-1142.18	8019.65	233.3	0.0059	493.32	ø10/[14]/10(etriye)
I:43		Y- (G+Q)	1397.601	55.27	856.91	233.3	0.0059	493.32	Cx:1. Cy:1.
J:42	Hk=4.0m	Y- (G+Q+E)	1017.103	-67.04	6759.87	233.3	0.0059	493.32	
Hcr✓	$\beta x = 1.000$	X- (G-E)	733.247	670.59	5390.79	233.3	0.0059	493.32	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	692.841	8.16	-4285.79	233.3	0.0059	493.32	
S102	Polygon	X- (G+Q)	1590.702	907.78	439.03	233.3	0.0059	493.32	200ø12+85ø20
	kolon	X- (G+Q+E)	1590.034	-981.33	8824.88	233.3	0.0059	493.32	ø10/[15]/10(etriye)
I:42		Y- (G+Q)	1590.702	235.45	1090.86	233.3	0.0059	493.32	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	1361.272	-264.77	8030.21	233.3	0.0059	493.32	
Hcr✓	$\beta x = 1.000$	X- (G-E)	569.235	850.33	-6860.93	233.3	0.0059	493.32	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	797.996	144.66	-6032.45	233.3	0.0059	493.32	
S503	Polygon	X- (G+Q)	94.783	6.59	36.31	233.3	0.0052	202.73	107ø12+26ø20
	kolon	X- (G+Q+E)	77.713	0.09	639.35	233.3	0.0052	202.73	ø10/[20]/10(etriye)
I:97		Y- (G+Q)	94.783	21.70	-40.16	233.3	0.0052	202.73	Cx:1. Cy:1.
J:92	Hk=4.0m	Y- (G+Q+E)	71.020	8.68	513.31	233.3	0.0052	202.73	
	$\beta x = 1.000$	X- (G-E)	39.927	0.53	-3.97	233.3	0.0052	202.73	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	46.485	12.77	13.55	233.3	0.0052	202.73	

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Kolon			N (t)	minor M	major M	fcd	ρ	As	Donatı
S403	Polygon	X- (G+Q)	201.696	27.07	35.10	233.3	0.0052	202.73	107ø12+26ø20
	kolon	X- (G+Q+E)	163.835	-35.41	1244.71	233.3	0.0052	202.73	ø10/[20]/10 (etriye)
I:92		Y- (G+Q)	201.696	29.58	-57.25	233.3	0.0052	202.73	Cx:1. Cy:1.
J:86	Hk=4.0m	Y- (G+Q+E)	151.451	6.07	999.34	233.3	0.0052	202.73	
	$\beta x = 1.000$	X- (G-E)	86.084	-25.58	87.38	233.3	0.0052	202.73	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	99.050	3.34	-60.06	233.3	0.0052	202.73	
S303	Polygon	X- (G+Q)	314.996	49.75	54.81	233.3	0.0065	255.52	87ø12+50ø20
	kolon	X- (G+Q+E)	253.388	-130.35	1653.33	233.3	0.0065	255.52	ø10/[20]/10 (etriye)
I:86		Y- (G+Q)	314.996	14.78	-83.94	233.3	0.0065	255.52	Cx:1. Cy:1.
J:81	Hk=4.0m	Y- (G+Q+E)	235.664	-21.48	1327.41	233.3	0.0065	255.52	
Hcr✓	$\beta x = 1.000$	X- (G-E)	136.692	19.37	381.59	233.3	0.0065	255.52	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	153.836	2.51	-243.50	233.3	0.0065	255.52	
S203	Polygon	X- (G+Q)	424.207	71.55	73.81	233.3	0.0065	255.52	87ø12+50ø20
	kolon	X- (G+Q+E)	388.917	-279.04	1662.34	233.3	0.0065	255.52	ø10/[20]/10 (etriye)
I:81		Y- (G+Q)	424.207	-16.68	-112.95	233.3	0.0065	255.52	Cx:1. Cy:1.
J:80	Hk=4.0m	Y- (G+Q+E)	277.580	-76.10	-1493.69	233.3	0.0065	255.52	
Hcr✓	$\beta x = 1.000$	X- (G-E)	188.766	89.98	828.87	233.3	0.0065	255.52	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	209.706	-5.90	-535.61	233.3	0.0065	255.52	
S103	Polygon	X- (G+Q)	463.192	115.03	80.60	233.3	0.0065	255.52	87ø12+50ø20
	kolon	X- (G+Q+E)	604.502	7.33	1653.33	233.3	0.0065	255.52	ø10/[20]/10 (etriye)
I:80		Y- (G+Q)	463.192	70.49	115.03	233.3	0.0065	255.52	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	562.314	0.79	1327.41	233.3	0.0065	255.52	
Hcr✓	$\beta x = 1.000$	X- (G-E)	-28.947	310.64	731.69	233.3	0.0065	255.52	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	13.242	47.87	-219.50	233.3	0.0065	255.52	
S504	Bx=210	X- (G+Q)	66.028	13.94	23.63	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	53.376	11.53	35.64	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:59		Y- (G+Q)	66.028	20.92	14.94	233.3	0.0007	4.50	Cx:1. Cy:1.
J:32	Hk=4.0m	Y- (G+Q+E)	53.016	14.07	18.13	233.3	0.0007	4.50	
	$\beta x = 1.000$	X- (G-E)	27.251	5.42	20.16	233.3	0.0010	6.30	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	27.612	5.55	12.49	233.3	0.0007	4.50	
S404	Bx=210	X- (G+Q)	143.073	14.00	20.28	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	102.066	11.59	34.04	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:32		Y- (G+Q)	143.073	20.28	14.00	233.3	0.0007	4.50	Cx:1. Cy:1.
J:11	Hk=4.0m	Y- (G+Q+E)	117.177	15.12	16.79	233.3	0.0007	4.50	
	$\beta x = 1.000$	X- (G-E)	61.737	4.85	12.80	233.3	0.0010	6.30	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	61.357	4.65	10.71	233.3	0.0007	4.50	
S304	Bx=210	X- (G+Q)	220.954	13.94	20.34	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	180.824	11.54	41.32	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:11		Y- (G+Q)	220.954	20.34	13.94	233.3	0.0007	4.50	Cx:1. Cy:1.
J:4	Hk=4.0m	Y- (G+Q+E)	181.725	15.19	16.33	233.3	0.0007	4.50	
	$\beta x = 1.000$	X- (G-E)	96.585	4.91	10.59	233.3	0.0010	6.30	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	95.683	4.74	10.33	233.3	0.0007	4.50	
S204	Bx=210	X- (G+Q)	295.045	15.37	23.01	233.3	0.0020	12.60	2×8ø20+2×4ø12 (govde)
	By=30	X- (G+Q+E)	242.328	12.70	57.09	233.3	0.0020	12.60	ø10/[20]/10 (etriye)
I:4		Y- (G+Q)	295.045	21.83	15.37	233.3	0.0004	2.70	Cx:1. Cy:1.
J:3	Hk=4.0m	Y- (G+Q+E)	243.655	18.00	16.49	233.3	0.0004	2.70	
Hcr✓	$\beta x = 1.000$	X- (G-E)	131.859	4.96	4.63	233.3	0.0020	12.60	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	130.532	4.94	9.35	233.3	0.0004	2.70	
S104	Bx=210	X- (G+Q)	121.067	6.80	-2.91	233.3	0.0055	34.41	2×12ø20+2×4ø12 (govde)
	By=30	X- (G+Q+E)	198.009	169.34	4.75	233.3	0.0015	9.60	ø10/[20]/10 (etriye)
I:3		Y- (G+Q)	121.067	-0.15	13.43	233.3	0.0015	9.60	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	200.164	-0.13	-232.51	233.3	0.0015	9.60	
Hcr✓	$\beta x = 1.000$	X- (G-E)	50.891	-8.77	-0.12	233.3	0.0015	9.60	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	-50.471	-0.05	-189.88	233.3	0.0015	9.60	
S505	Bx=210	X- (G+Q)	59.174	13.44	24.74	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	47.265	10.84	38.76	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:64		Y- (G+Q)	59.174	14.95	14.81	233.3	0.0007	4.50	Cx:1. Cy:1.
J:34	Hk=4.0m	Y- (G+Q+E)	47.310	12.17	17.87	233.3	0.0007	4.50	
	$\beta x = 1.000$	X- (G-E)	25.351	4.98	21.59	233.3	0.0010	6.30	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	25.319	6.27	12.18	233.3	0.0007	4.50	
S405	Bx=210	X- (G+Q)	128.023	13.71	18.00	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	89.601	11.03	35.42	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:34		Y- (G+Q)	128.023	18.00	13.71	233.3	0.0007	4.50	Cx:1. Cy:1.
J:19	Hk=4.0m	Y- (G+Q+E)	104.534	13.39	16.30	233.3	0.0007	4.50	
	$\beta x = 1.000$	X- (G-E)	57.515	4.51	13.23	233.3	0.0010	6.30	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	55.872	4.20	10.44	233.3	0.0007	4.50	
S305	Bx=210	X- (G+Q)	197.651	13.54	17.12	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	138.219	10.88	40.51	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:19		Y- (G+Q)	197.651	17.12	13.54	233.3	0.0007	4.50	Cx:1. Cy:1.
J:17	Hk=4.0m	Y- (G+Q+E)	162.102	12.74	15.76	233.3	0.0007	4.50	
	$\beta x = 1.000$	X- (G-E)	90.093	4.56	11.34	233.3	0.0010	6.30	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	86.962	4.24	10.04	233.3	0.0007	4.50	

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Kolon			N (t)	minor M	major M	fcd	ρ	As	Donatı
S205	Bx=210	X- (G+Q)	263.994	15.04	20.59	233.3	0.0020	12.60	2×8ø20+2×4ø12 (govde)
	By=30	X- (G+Q+E)	212.888	12.12	53.65	233.3	0.0020	12.60	ø10/[20]/10 (etriye)
I:17		Y- (G+Q)	263.994	16.51	15.04	233.3	0.0004	2.70	Cx:1. Cy:1.
J:16	Hk=4.0m	Y- (G+Q+E)	217.373	13.87	15.97	233.3	0.0004	2.70	
Hcr✓	βx =1.000	X- (G-E)	125.200	5.82	4.87	233.3	0.0020	12.60	
A4 ✓	βy =1.000	Y- (G-E)	118.551	4.14	9.09	233.3	0.0004	2.70	
S105	Bx=210	X- (G+Q)	329.766	9.12	25.72	233.3	0.0020	12.60	2×8ø20+2×4ø12 (govde)
	By=30	X- (G+Q+E)	266.795	3.83	43.08	233.3	0.0020	12.60	ø10/[20]/10 (etriye)
I:16		Y- (G+Q)	329.766	9.15	9.87	233.3	0.0004	2.70	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	272.186	6.57	9.20	233.3	0.0004	2.70	
Hcr✓	βx =1.000	X- (G-E)	157.688	3.25	-20.67	233.3	0.0020	12.60	
A4 ✓	βy =1.000	Y- (G-E)	152.337	-0.39	4.50	233.3	0.0004	2.70	
S506	Bx=210	X- (G+Q)	46.559	-6.47	-10.90	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	33.336	-5.34	30.50	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:101		Y- (G+Q)	46.559	-8.14	-7.08	233.3	0.0007	4.50	Cx:1. Cy:1.
J:68	Hk=4.0m	Y- (G+Q+E)	32.339	-4.97	-11.31	233.3	0.0007	4.50	
	βx =1.000	X- (G-E)	19.736	-2.07	10.93	233.3	0.0010	6.30	
A4 ✓	βy =1.000	Y- (G-E)	20.734	-2.63	-9.31	233.3	0.0007	4.50	
S406	Bx=210	X- (G+Q)	104.378	-6.81	-8.14	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	74.095	-4.01	37.32	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:68		Y- (G+Q)	104.378	-7.86	-6.81	233.3	0.0007	4.50	Cx:1. Cy:1.
J:48	Hk=4.0m	Y- (G+Q+E)	74.145	-5.20	-10.46	233.3	0.0007	4.50	
	βx =1.000	X- (G-E)	46.692	-1.85	7.21	233.3	0.0010	6.30	
A4 ✓	βy =1.000	Y- (G-E)	46.642	-0.50	-7.69	233.3	0.0007	4.50	
S306	Bx=210	X- (G+Q)	161.777	-6.78	-12.62	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	114.600	-3.92	44.13	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:48		Y- (G+Q)	161.777	-8.13	-6.78	233.3	0.0007	4.50	Cx:1. Cy:1.
J:44	Hk=4.0m	Y- (G+Q+E)	115.414	-5.50	-10.05	233.3	0.0007	4.50	
	βx =1.000	X- (G-E)	73.480	-1.87	4.49	233.3	0.0010	6.30	
A4 ✓	βy =1.000	Y- (G-E)	72.665	-0.73	-7.32	233.3	0.0007	4.50	
S206	Bx=210	X- (G+Q)	216.494	-8.01	-16.89	233.3	0.0020	12.60	2×8ø20+2×4ø12 (govde)
	By=30	X- (G+Q+E)	153.280	-5.00	44.13	233.3	0.0020	12.60	ø10/[20]/10 (etriye)
I:44		Y- (G+Q)	216.494	-9.20	-8.01	233.3	0.0004	2.70	Cx:1. Cy:1.
J:41	Hk=4.0m	Y- (G+Q+E)	154.764	-7.99	-9.81	233.3	0.0004	2.70	
Hcr✓	βx =1.000	X- (G-E)	100.441	-2.07	-7.30	233.3	0.0020	12.60	
A4 ✓	βy =1.000	Y- (G-E)	98.958	-0.87	-6.31	233.3	0.0004	2.70	
S106	Bx=210	X- (G+Q)	268.258	-5.14	-20.92	233.3	0.0020	12.60	2×8ø20+2×4ø12 (govde)
	By=30	X- (G+Q+E)	189.951	-1.77	44.13	233.3	0.0020	12.60	ø10/[20]/10 (etriye)
I:41		Y- (G+Q)	268.258	-6.48	-6.44	233.3	0.0004	2.70	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	191.736	-3.72	-5.00	233.3	0.0004	2.70	
Hcr✓	βx =1.000	X- (G-E)	127.824	-1.83	-31.49	233.3	0.0020	12.60	
A4 ✓	βy =1.000	Y- (G-E)	126.039	0.04	-3.46	233.3	0.0004	2.70	
S607	Bx=210	X- (G+Q)	12.830	-1.43	-5.20	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	13.162	-0.93	18.73	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:133		Y- (G+Q)	12.830	-1.33	-3.76	233.3	0.0007	4.50	Cx:1. Cy:1.
J:103	Hk=4.5m	Y- (G+Q+E)	12.260	-5.57	-7.86	233.3	0.0007	4.50	
	βx =1.000	X- (G-E)	3.758	-1.34	3.36	233.3	0.0010	6.30	
A4 ✓	βy =1.000	Y- (G-E)	4.609	-1.90	-4.50	233.3	0.0007	4.50	
S507	Bx=210	X- (G+Q)	55.977	-5.51	4.37	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	44.202	-4.46	27.43	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:103		Y- (G+Q)	55.977	1.08	-7.03	233.3	0.0007	4.50	Cx:1. Cy:1.
J:94	Hk=4.0m	Y- (G+Q+E)	44.174	2.35	-11.25	233.3	0.0007	4.50	
	βx =1.000	X- (G-E)	22.153	-2.48	14.12	233.3	0.0010	6.30	
A4 ✓	βy =1.000	Y- (G-E)	22.181	-4.41	-8.57	233.3	0.0007	4.50	
S407	Bx=210	X- (G+Q)	106.172	-6.09	-8.28	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	80.588	-5.38	36.13	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:94		Y- (G+Q)	106.172	1.35	-7.20	233.3	0.0007	4.50	Cx:1. Cy:1.
J:87	Hk=4.0m	Y- (G+Q+E)	81.211	2.05	-11.12	233.3	0.0007	4.50	
	βx =1.000	X- (G-E)	44.893	-2.48	9.31	233.3	0.0010	6.30	
A4 ✓	βy =1.000	Y- (G-E)	44.270	-0.21	-8.44	233.3	0.0007	4.50	
S307	Bx=210	X- (G+Q)	156.342	-6.10	12.19	233.3	0.0010	6.30	2×6ø20+2×7ø12 (govde)
	By=30	X- (G+Q+E)	117.109	-5.12	44.83	233.3	0.0010	6.30	ø10/[20]/20 (etriye)
I:87		Y- (G+Q)	156.342	1.56	-6.90	233.3	0.0007	4.50	Cx:1. Cy:1.
J:76	Hk=4.0m	Y- (G+Q+E)	117.970	2.91	-10.31	233.3	0.0007	4.50	
	βx =1.000	X- (G-E)	67.543	-2.35	2.02	233.3	0.0010	6.30	
A4 ✓	βy =1.000	Y- (G-E)	66.682	-0.03	-7.63	233.3	0.0007	4.50	
S207	Bx=210	X- (G+Q)	204.374	-5.85	15.94	233.3	0.0020	12.60	2×8ø20+2×4ø12 (govde)
	By=30	X- (G+Q+E)	174.999	-5.35	46.83	233.3	0.0020	12.60	ø10/[20]/10 (etriye)
I:76		Y- (G+Q)	204.374	1.62	-7.15	233.3	0.0004	2.70	Cx:1. Cy:1.
J:75	Hk=4.0m	Y- (G+Q+E)	152.978	3.98	-9.24	233.3	0.0004	2.70	
Hcr✓	βx =1.000	X- (G-E)	90.435	-2.33	-4.51	233.3	0.0020	12.60	
A4 ✓	βy =1.000	Y- (G-E)	89.693	0.45	-6.27	233.3	0.0004	2.70	

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Kolon			N (t)	minor M	major M	fcd	ρ	As	Donatı
S107 I:75 J:0 Hcr✓ A4 ✓	Bx=210	X- (G+Q)	251.201	-4.43	19.59	233.3	0.0020	12.60	2×8ø20+2×4ø12 (govde) ø10/[20]/10 (ettriye) Cx:1. Cy:1.
	By=30	X- (G+Q+E)	186.026	-1.98	44.84	233.3	0.0020	12.60	
		Y- (G+Q)	251.201	2.80	-6.03	233.3	0.0004	2.70	
	Hk=4.5m	Y- (G+Q+E)	186.622	0.02	4.48	233.3	0.0004	2.70	
	$\beta x = 1.000$	X- (G-E)	114.850	-1.52	-28.60	233.3	0.0020	12.60	
	$\beta y = 1.000$	Y- (G-E)	114.254	0.63	-3.13	233.3	0.0004	2.70	
S508 I:65 J:39 A4 ✓	Bx=30	X- (G+Q)	17.969	5.59	-0.79	233.3	0.0007	4.50	2×6ø20+2×7ø12 (govde) ø10/[20]/20 (ettriye) Cx:1. Cy:1.
	By=210	X- (G+Q+E)	10.183	4.92	-3.99	233.3	0.0007	4.50	
		Y- (G+Q)	17.969	-0.61	7.83	233.3	0.0010	6.30	
	Hk=4.0m	Y- (G+Q+E)	15.211	-0.33	60.65	233.3	0.0010	6.30	
	$\beta x = 1.000$	X- (G-E)	7.256	-0.13	2.39	233.3	0.0007	4.50	
	$\beta y = 1.000$	Y- (G-E)	7.106	-0.43	-1.01	233.3	0.0010	6.30	
S408 I:39 J:28 A4 ✓	Bx=30	X- (G+Q)	40.918	6.97	-0.98	233.3	0.0007	4.50	2×6ø20+2×7ø12 (govde) ø10/[20]/20 (ettriye) Cx:1. Cy:1.
	By=210	X- (G+Q+E)	22.978	3.59	-3.29	233.3	0.0007	4.50	
		Y- (G+Q)	40.918	-0.70	7.12	233.3	0.0010	6.30	
	Hk=4.0m	Y- (G+Q+E)	34.631	-0.42	112.31	233.3	0.0016	9.97	
	$\beta x = 1.000$	X- (G-E)	16.672	6.87	1.79	233.3	0.0007	4.50	
	$\beta y = 1.000$	Y- (G-E)	16.425	-0.13	2.22	233.3	0.0016	9.97	
S308 I:28 J:27 A4 ✓	Bx=30	X- (G+Q)	63.641	7.39	-1.53	233.3	0.0007	4.50	2×7ø20+2×7ø12 (govde) ø10/[20]/20 (ettriye) Cx:1. Cy:1.
	By=210	X- (G+Q+E)	61.153	7.77	1.73	233.3	0.0007	4.50	
		Y- (G+Q)	63.641	-0.56	7.82	233.3	0.0010	6.30	
	Hk=4.0m	Y- (G+Q+E)	53.572	-0.42	163.97	233.3	0.0022	13.60	
	$\beta x = 1.000$	X- (G-E)	26.204	3.78	1.39	233.3	0.0007	4.50	
	$\beta y = 1.000$	Y- (G-E)	26.075	-0.20	-8.43	233.3	0.0022	13.60	
S208 I:27 J:26 Hcr✓ A4 ✓	Bx=30	X- (G+Q)	85.296	-10.90	-2.05	233.3	0.0004	2.70	2×9ø20+2×4ø12 (govde) ø10/[18]/10 (ettriye) Cx:1. Cy:1.
	By=210	X- (G+Q+E)	81.965	40.29	6.33	233.3	0.0004	2.70	
		Y- (G+Q)	85.296	-0.52	-12.83	233.3	0.0020	12.60	
	Hk=4.0m	Y- (G+Q+E)	71.519	-1.22	-187.52	233.3	0.0029	18.58	
	$\beta x = 1.000$	X- (G-E)	35.788	3.33	1.87	233.3	0.0004	2.70	
	$\beta y = 1.000$	Y- (G-E)	36.207	-0.12	8.69	233.3	0.0029	18.58	
S108 I:26 J:0 Hcr✓ A4 ✓	Bx=30	X- (G+Q)	60.438	-6.33	-1.45	233.3	0.0004	2.70	2×9ø20+2×4ø12 (govde) ø10/[11]/10 (ettriye) Cx:1. Cy:1.
	By=210	X- (G+Q+E)	76.507	-11.91	2.97	233.3	0.0004	2.70	
		Y- (G+Q)	60.438	-0.17	-7.89	233.3	0.0020	12.60	
	Hk=4.5m	Y- (G+Q+E)	104.885	-0.60	163.98	233.3	0.0024	14.92	
	$\beta x = 1.000$	X- (G-E)	4.420	-17.97	2.72	233.3	0.0004	2.70	
	$\beta y = 1.000$	Y- (G-E)	-27.477	0.56	-107.06	233.3	0.0024	14.92	
S509 I:71 J:57 A4 ✓	Bx=30	X- (G+Q)	41.592	10.71	-7.42	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde) ø10/[20]/20 (ettriye) Cx:1. Cy:1.
	By=230	X- (G+Q+E)	29.727	11.78	-13.22	233.3	0.0007	5.10	
		Y- (G+Q)	41.592	-4.86	20.78	233.3	0.0010	6.90	
	Hk=4.0m	Y- (G+Q+E)	35.270	-3.94	22.81	233.3	0.0010	6.90	
	$\beta x = 1.000$	X- (G-E)	18.783	0.78	-10.81	233.3	0.0007	5.10	
	$\beta y = 1.000$	Y- (G-E)	19.686	-3.15	5.69	233.3	0.0010	6.90	
S409 I:57 J:37 A4 ✓	Bx=30	X- (G+Q)	93.435	9.43	-6.72	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde) ø10/[20]/20 (ettriye) Cx:1. Cy:1.
	By=230	X- (G+Q+E)	66.881	7.16	-11.90	233.3	0.0007	5.10	
		Y- (G+Q)	93.435	-4.11	12.03	233.3	0.0010	6.90	
	Hk=4.0m	Y- (G+Q+E)	69.481	-3.76	32.42	233.3	0.0010	6.90	
	$\beta x = 1.000$	X- (G-E)	44.209	7.74	-8.45	233.3	0.0007	5.10	
	$\beta y = 1.000$	Y- (G-E)	41.609	-1.67	4.25	233.3	0.0010	6.90	
S309 I:37 J:25 A4 ✓	Bx=30	X- (G+Q)	145.360	8.20	-6.94	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde) ø10/[20]/20 (ettriye) Cx:1. Cy:1.
	By=230	X- (G+Q+E)	104.041	1.45	-11.44	233.3	0.0007	5.10	
		Y- (G+Q)	145.360	-4.28	13.24	233.3	0.0010	6.90	
	Hk=4.0m	Y- (G+Q+E)	124.425	-4.16	44.86	233.3	0.0010	6.90	
	$\beta x = 1.000$	X- (G-E)	69.705	4.77	-8.10	233.3	0.0007	5.10	
	$\beta y = 1.000$	Y- (G-E)	66.724	-2.34	11.41	233.3	0.0010	6.90	
S209 I:25 J:24 Hcr✓ A4 ✓	Bx=30	X- (G+Q)	195.185	7.44	-4.90	233.3	0.0005	3.30	2×8ø20+2×5ø12 (govde) ø10/[20]/10 (ettriye) Cx:1. Cy:1.
	By=230	X- (G+Q+E)	139.999	-22.64	-11.72	233.3	0.0005	3.30	
		Y- (G+Q)	195.185	-3.19	16.40	233.3	0.0020	13.80	
	Hk=4.0m	Y- (G+Q+E)	167.350	-1.58	62.43	233.3	0.0020	13.80	
	$\beta x = 1.000$	X- (G-E)	95.142	1.11	-7.04	233.3	0.0005	3.30	
	$\beta y = 1.000$	Y- (G-E)	90.200	-0.21	-31.03	233.3	0.0020	13.80	
S109 I:24 J:0 Hcr✓ A4 ✓	Bx=30	X- (G+Q)	108.384	19.17	-2.60	233.3	0.0005	3.30	2×8ø20+2×5ø12 (govde) ø10/[20]/10 (ettriye) Cx:1. Cy:1.
	By=230	X- (G+Q+E)	96.967	-14.16	3.29	233.3	0.0005	3.30	
		Y- (G+Q)	108.384	-0.25	20.39	233.3	0.0020	13.80	
	Hk=4.5m	Y- (G+Q+E)	103.454	0.38	111.52	233.3	0.0020	13.80	
	$\beta x = 1.000$	X- (G-E)	51.332	-17.83	3.02	233.3	0.0005	3.30	
	$\beta y = 1.000$	Y- (G-E)	45.478	0.53	55.67	233.3	0.0020	13.80	
S510 I:100 J:69 A4 ✓	Bx=30	X- (G+Q)	59.240	20.91	2.76	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde) ø10/[20]/20 (ettriye) Cx:1. Cy:1.
	By=230	X- (G+Q+E)	46.961	16.61	12.15	233.3	0.0007	5.10	
		Y- (G+Q)	59.240	0.88	24.27	233.3	0.0010	6.90	
	Hk=4.0m	Y- (G+Q+E)	48.983	0.70	25.32	233.3	0.0010	6.90	
	$\beta x = 1.000$	X- (G-E)	27.174	2.21	10.09	233.3	0.0007	5.10	
	$\beta y = 1.000$	Y- (G-E)	27.159	0.32	5.50	233.3	0.0010	6.90	

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Kolon			N (t)	minor M	major M	fcd	ρ	As	Donatı
S410	Bx=30	X- (G+Q)	130.436	10.46	3.13	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde)
	By=230	X- (G+Q+E)	104.412	8.09	11.17	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:69		Y- (G+Q)	130.436	0.51	13.12	233.3	0.0010	6.90	Cx:1. Cy:1.
J:50	Hk=4.0m	Y- (G+Q+E)	94.574	0.58	32.54	233.3	0.0010	6.90	
	$\beta_x = 1.000$	X- (G-E)	62.226	6.05	8.41	233.3	0.0007	5.10	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	58.266	-0.47	3.14	233.3	0.0010	6.90	
S310	Bx=30	X- (G+Q)	201.710	7.74	4.84	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde)
	By=230	X- (G+Q+E)	161.900	8.71	10.48	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:50		Y- (G+Q)	201.710	0.65	16.94	233.3	0.0010	6.90	Cx:1. Cy:1.
J:47	Hk=4.0m	Y- (G+Q+E)	146.186	0.84	44.53	233.3	0.0010	6.90	
	$\beta_x = 1.000$	X- (G-E)	97.247	4.56	7.84	233.3	0.0007	5.10	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	91.380	-0.35	11.83	233.3	0.0010	6.90	
S210	Bx=30	X- (G+Q)	269.593	12.37	6.47	233.3	0.0005	3.30	2×8ø20+2×5ø12 (govde)
	By=230	X- (G+Q+E)	217.230	39.65	11.11	233.3	0.0005	3.30	ø10/[20]/10 (ettriye)
I:47		Y- (G+Q)	269.593	0.06	25.71	233.3	0.0020	13.80	Cx:1. Cy:1.
J:46	Hk=4.0m	Y- (G+Q+E)	225.260	0.64	71.15	233.3	0.0020	13.80	
Hcr✓	$\beta_x = 1.000$	X- (G-E)	132.314	1.91	6.83	233.3	0.0005	3.30	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	124.284	0.64	-25.53	233.3	0.0020	13.80	
S110	Bx=30	X- (G+Q)	147.721	34.59	-3.55	233.3	0.0005	3.30	2×8ø20+2×5ø12 (govde)
	By=230	X- (G+Q+E)	123.178	-7.19	3.36	233.3	0.0005	3.30	ø10/[20]/10 (ettriye)
I:46		Y- (G+Q)	147.721	-0.10	36.37	233.3	0.0020	13.80	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	122.817	0.31	106.94	233.3	0.0020	13.80	
Hcr✓	$\beta_x = 1.000$	X- (G-E)	77.043	-3.83	3.34	233.3	0.0005	3.30	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	77.405	0.33	63.53	233.3	0.0020	13.80	
S511	Bx=30	X- (G+Q)	59.934	11.39	-2.86	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde)
	By=230	X- (G+Q+E)	41.704	10.19	-11.82	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:108		Y- (G+Q)	59.934	0.86	22.72	233.3	0.0010	6.90	Cx:1. Cy:1.
J:95	Hk=4.0m	Y- (G+Q+E)	49.242	0.39	23.60	233.3	0.0010	6.90	
	$\beta_x = 1.000$	X- (G-E)	27.077	3.00	-9.84	233.3	0.0007	5.10	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	27.429	-0.45	5.17	233.3	0.0010	6.90	
S411	Bx=30	X- (G+Q)	132.608	5.17	-3.18	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde)
	By=230	X- (G+Q+E)	93.026	4.82	-11.06	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:95		Y- (G+Q)	132.608	0.74	12.61	233.3	0.0010	6.90	Cx:1. Cy:1.
J:88	Hk=4.0m	Y- (G+Q+E)	95.500	-0.05	32.56	233.3	0.0010	6.90	
	$\beta_x = 1.000$	X- (G-E)	61.984	4.66	-7.87	233.3	0.0007	5.10	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	59.749	-0.93	3.40	233.3	0.0010	6.90	
S311	Bx=30	X- (G+Q)	205.367	2.24	-4.93	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde)
	By=230	X- (G+Q+E)	144.377	1.29	-10.34	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:88		Y- (G+Q)	205.367	0.64	17.25	233.3	0.0010	6.90	Cx:1. Cy:1.
J:74	Hk=4.0m	Y- (G+Q+E)	147.877	-0.34	44.90	233.3	0.0010	6.90	
	$\beta_x = 1.000$	X- (G-E)	96.938	4.48	-7.37	233.3	0.0007	5.10	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	93.438	-0.11	12.37	233.3	0.0010	6.90	
S211	Bx=30	X- (G+Q)	274.796	7.80	-6.60	233.3	0.0005	3.30	2×8ø20+2×5ø12 (govde)
	By=230	X- (G+Q+E)	224.015	27.89	10.72	233.3	0.0005	3.30	ø10/[20]/10 (ettriye)
I:74		Y- (G+Q)	274.796	-1.63	25.02	233.3	0.0020	13.80	Cx:1. Cy:1.
J:73	Hk=4.0m	Y- (G+Q+E)	228.330	-0.56	67.76	233.3	0.0020	13.80	
Hcr✓	$\beta_x = 1.000$	X- (G-E)	132.032	3.39	-6.55	233.3	0.0005	3.30	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	127.717	0.35	-29.25	233.3	0.0020	13.80	
S111	Bx=30	X- (G+Q)	147.904	2.13	3.55	233.3	0.0005	3.30	2×8ø20+2×5ø12 (govde)
	By=230	X- (G+Q+E)	124.891	21.68	3.41	233.3	0.0005	3.30	ø10/[20]/10 (ettriye)
I:73		Y- (G+Q)	147.904	0.02	36.00	233.3	0.0020	13.80	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	125.147	0.36	99.08	233.3	0.0020	13.80	
Hcr✓	$\beta_x = 1.000$	X- (G-E)	75.665	7.06	-3.17	233.3	0.0005	3.30	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	75.409	0.37	61.62	233.3	0.0020	13.80	
S512	Bx=30	X- (G+Q)	42.429	9.66	4.10	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde)
	By=230	X- (G+Q+E)	35.653	10.48	10.29	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:128		Y- (G+Q)	42.429	2.32	24.27	233.3	0.0010	6.90	Cx:1. Cy:1.
J:124	Hk=4.0m	Y- (G+Q+E)	36.166	1.30	25.42	233.3	0.0010	6.90	
	$\beta_x = 1.000$	X- (G-E)	18.622	5.34	8.32	233.3	0.0007	5.10	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	20.252	1.64	6.44	233.3	0.0010	6.90	
S412	Bx=30	X- (G+Q)	94.321	7.59	3.72	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde)
	By=230	X- (G+Q+E)	80.361	6.78	9.03	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:124		Y- (G+Q)	94.321	1.88	15.39	233.3	0.0010	6.90	Cx:1. Cy:1.
J:112	Hk=4.0m	Y- (G+Q+E)	70.061	1.56	34.29	233.3	0.0010	6.90	
	$\beta_x = 1.000$	X- (G-E)	42.400	4.28	6.42	233.3	0.0007	5.10	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	42.151	0.59	5.02	233.3	0.0010	6.90	
S312	Bx=30	X- (G+Q)	145.734	5.51	4.32	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde)
	By=230	X- (G+Q+E)	124.538	4.37	8.83	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:112		Y- (G+Q)	145.734	2.23	16.59	233.3	0.0010	6.90	Cx:1. Cy:1.
J:110	Hk=4.0m	Y- (G+Q+E)	108.012	2.25	47.09	233.3	0.0010	6.90	
	$\beta_x = 1.000$	X- (G-E)	66.097	5.23	6.16	233.3	0.0007	5.10	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	66.166	0.75	14.31	233.3	0.0010	6.90	

KOLON BETONARME HESAP SONUÇLARI

Kolon			N (t)	minor M	major M	fcd	ρ	As	Donatı
S212	Bx=30	X- (G+Q)	194.011	10.41	4.66	233.3	0.0005	3.30	2x8ø20+2x5ø12 (govde)
	By=230	X- (G+Q+E)	166.597	10.91	10.44	233.3	0.0005	3.30	ø10/[20]/10 (ettriye)
I:110		Y- (G+Q)	194.011	1.88	17.54	233.3	0.0020	13.80	Cx:1. Cy:1.
J:109	Hk=4.0m	Y- (G+Q+E)	165.782	0.91	61.82	233.3	0.0020	13.80	
Hcr✓	$\beta x = 1.000$	X- (G-E)	89.299	6.02	5.66	233.3	0.0005	3.30	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	90.114	0.78	35.58	233.3	0.0020	13.80	
S112	Bx=30	X- (G+Q)	128.833	28.17	-3.09	233.3	0.0005	3.30	2x8ø20+2x5ø12 (govde)
	By=230	X- (G+Q+E)	108.745	0.07	3.35	233.3	0.0005	3.30	ø10/[20]/10 (ettriye)
I:109		Y- (G+Q)	128.833	-0.09	28.17	233.3	0.0020	13.80	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	111.528	0.32	89.36	233.3	0.0020	13.80	
Hcr✓	$\beta x = 1.000$	X- (G-E)	66.525	0.37	-3.20	233.3	0.0005	3.30	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	64.331	0.01	56.61	233.3	0.0020	13.80	
S513	Bx=50	X- (G+Q)	24.272	12.75	-5.68	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X- (G+Q+E)	18.622	9.98	-11.80	233.3	0.0022	5.48	ø10/19/9 (ettriye)
I:129		Y- (G+Q)	24.272	-5.68	12.75	233.3	0.0020	5.00	Cx:1. Cy:1.
J:127	Hk=4.0m	Y- (G+Q+E)	20.933	-4.66	14.43	233.3	0.0022	5.38	
	$\beta x = 1.000$	X- (G-E)	9.281	3.89	-9.47	233.3	0.0022	5.48	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	11.105	-2.15	4.89	233.3	0.0022	5.38	
S413	Bx=50	X- (G+Q)	60.259	11.74	-5.27	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X- (G+Q+E)	46.658	9.27	-10.90	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:127		Y- (G+Q)	60.259	-5.27	11.74	233.3	0.0020	5.00	Cx:1. Cy:1.
J:123	Hk=4.0m	Y- (G+Q+E)	52.074	-4.83	12.77	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	24.749	3.23	-7.68	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	25.700	-1.88	1.70	233.3	0.0020	5.00	
S313	Bx=50	X- (G+Q)	96.366	11.44	-5.36	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X- (G+Q+E)	74.589	9.07	-10.39	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:123		Y- (G+Q)	96.366	-5.36	11.44	233.3	0.0020	5.00	Cx:1. Cy:1.
J:120	Hk=4.0m	Y- (G+Q+E)	83.185	-4.87	12.69	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	40.478	3.31	-7.21	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	42.204	-1.89	1.46	233.3	0.0020	5.00	
S213	Bx=50	X- (G+Q)	131.668	6.90	-3.95	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X- (G+Q+E)	102.069	9.70	-10.79	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:120		Y- (G+Q)	131.668	-2.22	11.92	233.3	0.0020	5.00	Cx:1. Cy:1.
J:119	Hk=4.0m	Y- (G+Q+E)	113.623	-2.27	12.42	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	56.514	3.36	-6.28	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	59.281	-0.28	2.84	233.3	0.0020	5.00	
S113	Bx=50	X- (G+Q)	43.506	6.78	1.31	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X- (G+Q+E)	36.129	5.59	3.40	233.3	0.0020	5.00	ø10/9 (ettriye)
I:119		Y- (G+Q)	43.506	0.02	7.18	233.3	0.0020	5.00	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	37.789	0.37	6.05	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	24.225	1.26	3.36	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	22.593	0.04	-0.56	233.3	0.0020	5.00	
S514	Bx=30	X- (G+Q)	57.864	27.52	-6.98	233.3	0.0007	5.10	2x6ø20+2x8ø12 (govde)
	By=230	X- (G+Q+E)	39.577	21.94	-12.96	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:131		Y- (G+Q)	57.864	-2.59	29.35	233.3	0.0010	6.90	Cx:1. Cy:1.
J:126	Hk=4.0m	Y- (G+Q+E)	48.486	-3.29	30.60	233.3	0.0010	6.90	
	$\beta x = 1.000$	X- (G-E)	26.547	7.97	5.82	233.3	0.0007	5.10	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	26.763	-1.76	8.88	233.3	0.0010	6.90	
S414	Bx=30	X- (G+Q)	123.391	16.89	-4.58	233.3	0.0007	5.10	2x6ø20+2x8ø12 (govde)
	By=230	X- (G+Q+E)	84.697	13.27	-10.14	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:126		Y- (G+Q)	123.391	-1.31	18.65	233.3	0.0010	6.90	Cx:1. Cy:1.
J:121	Hk=4.0m	Y- (G+Q+E)	90.397	-1.79	38.49	233.3	0.0010	6.90	
	$\beta x = 1.000$	X- (G-E)	58.260	3.31	5.29	233.3	0.0007	5.10	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	54.128	-0.39	8.76	233.3	0.0010	6.90	
S314	Bx=30	X- (G+Q)	188.834	14.48	-5.06	233.3	0.0007	5.10	2x6ø20+2x8ø12 (govde)
	By=230	X- (G+Q+E)	129.737	14.70	-9.83	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:121		Y- (G+Q)	188.834	-0.98	19.75	233.3	0.0010	6.90	Cx:1. Cy:1.
J:116	Hk=4.0m	Y- (G+Q+E)	158.598	-2.49	53.88	233.3	0.0010	6.90	
	$\beta x = 1.000$	X- (G-E)	89.893	6.20	4.39	233.3	0.0007	5.10	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	83.877	-0.70	17.05	233.3	0.0010	6.90	
S214	Bx=30	X- (G+Q)	250.934	13.70	-6.02	233.3	0.0005	3.30	2x8ø20+2x5ø12 (govde)
	By=230	X- (G+Q+E)	172.584	36.43	-11.27	233.3	0.0005	3.30	ø10/[20]/10 (ettriye)
I:116		Y- (G+Q)	250.934	-2.39	22.56	233.3	0.0020	13.80	Cx:1. Cy:1.
J:118	Hk=4.0m	Y- (G+Q+E)	211.010	-2.35	76.32	233.3	0.0020	13.80	
Hcr✓	$\beta x = 1.000$	X- (G-E)	121.374	9.13	3.99	233.3	0.0005	3.30	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	113.187	-1.12	-36.74	233.3	0.0020	13.80	
S114	Bx=30	X- (G+Q)	145.291	32.71	-3.49	233.3	0.0005	3.30	2x8ø20+2x5ø12 (govde)
	By=230	X- (G+Q+E)	123.977	9.37	3.32	233.3	0.0005	3.30	ø10/[20]/10 (ettriye)
I:118		Y- (G+Q)	145.291	-0.16	33.20	233.3	0.0020	13.80	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	123.478	-0.05	89.25	233.3	0.0020	13.80	
Hcr✓	$\beta x = 1.000$	X- (G-E)	72.031	7.70	-3.21	233.3	0.0005	3.30	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	72.530	-0.04	68.79	233.3	0.0020	13.80	

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Kolon			N (t)	minor M	major M	fcd	ρ	As	Donatı
S515	Bx=30	X- (G+Q)	37.217	16.00	8.84	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde)
	By=230	X- (G+Q+E)	31.371	11.57	11.79	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:143		Y- (G+Q)	37.217	6.29	16.80	233.3	0.0010	6.90	Cx:1. Cy:1.
J:142	Hk=4.0m	Y- (G+Q+E)	27.448	4.83	68.06	233.3	0.0010	6.90	
	$\beta_x = 1.000$	X- (G-E)	18.183	3.47	3.31	233.3	0.0007	5.10	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	16.612	2.91	2.69	233.3	0.0010	6.90	
S415	Bx=30	X- (G+Q)	74.370	6.38	6.02	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde)
	By=230	X- (G+Q+E)	63.273	4.66	8.41	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:142		Y- (G+Q)	74.370	2.72	9.95	233.3	0.0010	6.90	Cx:1. Cy:1.
J:141	Hk=4.0m	Y- (G+Q+E)	55.078	4.21	128.27	233.3	0.0013	9.29	
	$\beta_x = 1.000$	X- (G-E)	32.883	-1.16	-0.82	233.3	0.0007	5.10	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	32.909	1.49	7.59	233.3	0.0013	9.29	
S315	Bx=30	X- (G+Q)	111.431	6.99	6.91	233.3	0.0007	5.10	2×6ø20+2×8ø12 (govde)
	By=230	X- (G+Q+E)	94.860	2.22	8.29	233.3	0.0007	5.10	ø10/[20]/20 (ettriye)
I:141		Y- (G+Q)	111.431	5.48	11.33	233.3	0.0010	6.90	Cx:1. Cy:1.
J:136	Hk=4.0m	Y- (G+Q+E)	82.473	5.11	188.48	233.3	0.0018	12.52	
	$\beta_x = 1.000$	X- (G-E)	49.180	2.98	0.20	233.3	0.0007	5.10	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	49.353	1.91	18.45	233.3	0.0018	12.52	
S215	Bx=30	X- (G+Q)	146.526	7.37	4.98	233.3	0.0005	3.30	2×9ø20+2×5ø12 (govde)
	By=230	X- (G+Q+E)	125.121	-71.89	10.00	233.3	0.0005	3.30	ø10/[17]/10 (ettriye)
I:136		Y- (G+Q)	146.526	2.42	-24.52	233.3	0.0020	13.80	Cx:1. Cy:1.
J:137	Hk=4.0m	Y- (G+Q+E)	108.394	2.82	-222.17	233.3	0.0026	17.62	
Hcr✓	$\beta_x = 1.000$	X- (G-E)	65.506	5.25	-0.40	233.3	0.0005	3.30	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	65.859	1.25	27.81	233.3	0.0026	17.62	
S115	Bx=30	X- (G+Q)	109.208	-10.53	-2.62	233.3	0.0005	3.30	2×9ø20+2×5ø12 (govde)
	By=230	X- (G+Q+E)	116.649	-2.36	3.15	233.3	0.0005	3.30	ø10/[14]/10 (ettriye)
I:137		Y- (G+Q)	109.208	-0.30	-10.53	233.3	0.0020	13.80	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	155.611	0.02	188.50	233.3	0.0020	13.80	
Hcr✓	$\beta_x = 1.000$	X- (G-E)	26.553	9.03	-2.91	233.3	0.0005	3.30	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	-20.897	-0.50	-87.57	233.3	0.0020	13.80	
S516	Bx=50	X- (G+Q)	26.562	-5.14	10.96	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	22.757	-5.28	13.53	233.3	0.0020	5.09	ø10/19/9 (ettriye)
I:107		Y- (G+Q)	26.562	10.96	-5.14	233.3	0.0020	5.00	Cx:1. Cy:1.
J:99	Hk=4.0m	Y- (G+Q+E)	21.703	8.92	-12.89	233.3	0.0022	5.50	
	$\beta_x = 1.000$	X- (G-E)	12.292	-2.19	4.14	233.3	0.0020	5.09	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	8.963	2.86	-10.82	233.3	0.0022	5.50	
S416	Bx=50	X- (G+Q)	53.856	-2.86	8.73	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	46.337	-3.67	10.17	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:99		Y- (G+Q)	53.856	6.61	-4.11	233.3	0.0020	5.00	Cx:1. Cy:1.
J:91	Hk=4.0m	Y- (G+Q+E)	43.888	5.60	-10.90	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X- (G-E)	21.021	-2.02	-0.04	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	18.227	1.76	-7.03	233.3	0.0020	5.00	
S316	Bx=50	X- (G+Q)	81.330	-2.75	9.10	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	69.776	-3.61	10.49	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:91		Y- (G+Q)	81.330	7.25	-3.81	233.3	0.0020	5.00	Cx:1. Cy:1.
J:84	Hk=4.0m	Y- (G+Q+E)	65.949	6.08	-9.78	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X- (G-E)	31.873	-2.00	0.20	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	27.804	2.08	-6.42	233.3	0.0020	5.00	
S216	Bx=50	X- (G+Q)	107.840	-1.79	8.26	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	92.421	-3.12	9.64	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:84		Y- (G+Q)	107.840	4.57	-3.24	233.3	0.0020	5.00	Cx:1. Cy:1.
J:77	Hk=4.0m	Y- (G+Q+E)	86.663	6.36	-10.15	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X- (G-E)	43.209	-1.56	0.05	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	38.341	2.04	-5.00	233.3	0.0020	5.00	
S116	Bx=50	X- (G+Q)	36.416	-0.14	4.62	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	36.351	0.51	3.74	233.3	0.0020	5.00	ø10/9 (ettriye)
I:77		Y- (G+Q)	36.416	2.02	-1.09	233.3	0.0020	5.00	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	63.930	2.08	3.92	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X- (G-E)	13.994	0.45	-1.05	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	-13.585	0.55	-3.76	233.3	0.0020	5.00	
S517	Bx=50	X- (G+Q)	35.752	-1.92	15.27	233.3	0.0020	5.03	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	30.060	-2.68	16.44	233.3	0.0022	5.61	ø10/19/9 (ettriye)
I:130		Y- (G+Q)	35.752	14.56	-3.06	233.3	0.0020	5.00	Cx:1. Cy:1.
J:125	Hk=4.0m	Y- (G+Q+E)	24.374	11.37	-9.97	233.3	0.0021	5.21	
	$\beta_x = 1.000$	X- (G-E)	15.899	-0.80	5.93	233.3	0.0022	5.61	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	15.772	4.84	6.94	233.3	0.0021	5.21	
S417	Bx=50	X- (G+Q)	76.444	-1.96	13.76	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	64.674	-2.64	14.31	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:125		Y- (G+Q)	76.444	9.73	-2.43	233.3	0.0020	5.00	Cx:1. Cy:1.
J:122	Hk=4.0m	Y- (G+Q+E)	52.861	7.98	-8.17	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X- (G-E)	30.913	-1.03	2.17	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y- (G-E)	34.751	3.57	-5.09	233.3	0.0020	5.00	

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Kolon			N (t)	minor M	major M	fcd	ρ	As	Donatı
S317	Bx=50	X- (G+Q)	117.065	-1.97	13.81	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	99.101	-2.68	14.44	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:122		Y- (G+Q)	117.065	10.25	-3.51	233.3	0.0020	5.00	Cx:1. Cy:1.
J:113	Hk=4.0m	Y- (G+Q+E)	81.156	8.16	-7.27	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	47.702	-1.74	2.21	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	53.474	3.74	-4.63	233.3	0.0020	5.00	
S217	Bx=50	X- (G+Q)	155.622	-0.49	12.26	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	131.973	-2.43	13.41	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:113		Y- (G+Q)	155.622	9.87	-4.67	233.3	0.0020	5.00	Cx:1. Cy:1.
J:117	Hk=4.0m	Y- (G+Q+E)	108.216	7.67	-9.77	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	65.065	-1.64	1.59	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	72.186	3.59	-3.81	233.3	0.0020	5.00	
S117	Bx=50	X- (G+Q)	42.190	-0.26	6.72	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	35.798	0.20	5.29	233.3	0.0020	5.00	ø10/9 (ettriye)
I:117		Y- (G+Q)	42.190	6.02	-1.27	233.3	0.0020	5.00	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	35.503	3.49	3.80	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	21.624	0.00	-0.49	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	21.981	0.99	-3.84	233.3	0.0020	5.00	
S618	Bx=50	X- (G+Q)	10.365	-2.16	4.26	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	9.879	-3.04	7.65	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:134		Y- (G+Q)	10.365	-0.03	-5.17	233.3	0.0020	5.00	Cx:1. Cy:1.
J:106	Hk=4.5m	Y- (G+Q+E)	10.855	0.26	-10.21	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	4.184	-1.19	-1.90	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	1.954	1.52	-6.51	233.3	0.0020	5.00	
S518	Bx=50	X- (G+Q)	64.594	-7.17	-3.86	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	46.033	-5.16	-9.23	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:106		Y- (G+Q)	64.594	0.21	-8.99	233.3	0.0020	5.00	Cx:1. Cy:1.
J:98	Hk=4.0m	Y- (G+Q+E)	49.718	0.28	-13.96	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	27.988	-3.07	-5.82	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	24.303	-0.32	-9.35	233.3	0.0020	5.00	
S418	Bx=50	X- (G+Q)	126.349	-7.31	-4.50	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	88.630	-5.26	-9.66	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:98		Y- (G+Q)	126.349	-0.12	-9.31	233.3	0.0020	5.00	Cx:1. Cy:1.
J:89	Hk=4.0m	Y- (G+Q+E)	93.866	-0.11	-13.95	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	57.082	-3.45	-6.06	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	51.846	-0.64	-9.21	233.3	0.0020	5.00	
S318	Bx=50	X- (G+Q)	188.628	-6.82	-5.66	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	131.665	-4.83	-9.34	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:89		Y- (G+Q)	188.628	-0.28	-8.89	233.3	0.0020	5.00	Cx:1. Cy:1.
J:83	Hk=4.0m	Y- (G+Q+E)	138.200	-0.20	-13.05	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	86.481	-3.30	-5.41	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	79.947	-0.62	-8.24	233.3	0.0020	5.00	
S218	Bx=50	X- (G+Q)	248.599	-7.84	-7.46	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	173.286	-5.50	-8.48	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:83		Y- (G+Q)	248.599	-2.11	-9.71	233.3	0.0020	5.00	Cx:1. Cy:1.
J:78	Hk=4.0m	Y- (G+Q+E)	180.850	-1.42	-12.39	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	116.249	-2.99	-4.10	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	108.835	-0.59	-6.68	233.3	0.0020	5.00	
S118	Bx=50	X- (G+Q)	307.363	-5.71	-9.22	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	247.803	-2.59	7.43	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:78		Y- (G+Q)	307.363	-3.43	-9.22	233.3	0.0020	5.00	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	222.414	-1.44	6.67	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	147.229	-1.70	-1.04	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	139.195	-0.26	-3.64	233.3	0.0020	5.00	
S619	Bx=50	X- (G+Q)	15.473	-4.60	-7.58	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	12.644	-3.07	-11.56	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:132		Y- (G+Q)	15.473	-5.84	-5.33	233.3	0.0020	5.00	Cx:1. Cy:1.
J:104	Hk=4.5m	Y- (G+Q+E)	14.695	-4.96	-10.61	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	5.705	-1.12	-9.23	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	3.654	-2.07	-6.53	233.3	0.0020	5.00	
S519	Bx=50	X- (G+Q)	57.634	-7.97	-8.55	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	44.669	-6.08	-13.09	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:104		Y- (G+Q)	57.634	-6.50	-10.01	233.3	0.0020	5.00	Cx:1. Cy:1.
J:96	Hk=4.0m	Y- (G+Q+E)	45.651	-4.96	-14.30	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	22.614	-2.93	-9.18	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	21.632	-3.01	-9.35	233.3	0.0020	5.00	
S419	Bx=50	X- (G+Q)	103.056	-8.09	-8.14	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	79.638	-6.12	-13.04	233.3	0.0020	5.00	ø10/19/9 (ettriye)
I:96		Y- (G+Q)	103.056	-6.10	-10.15	233.3	0.0020	5.00	Cx:1. Cy:1.
J:90	Hk=4.0m	Y- (G+Q+E)	78.385	-4.72	-14.37	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	41.048	-3.36	-8.90	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	42.302	-2.60	-9.51	233.3	0.0020	5.00	

KOLON BETONARME HESAP SONUÇLARI

Kolon			N (t)	minor M	major M	fcd	ρ	As	Donatı
S319	Bx=50	X-(G+Q)	148.429	-7.75	-7.79	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X-(G+Q+E)	114.683	-5.84	-12.42	233.3	0.0020	5.00	ø10/19/9(etriye)
I:90		Y-(G+Q)	148.429	-5.66	-9.69	233.3	0.0020	5.00	Cx:1. Cy:1.
J:85	Hk=4.0m	Y-(G+Q+E)	111.031	-4.41	-13.40	233.3	0.0020	5.00	
	$\beta x = 1.000$	X-(G-E)	59.725	-3.19	-8.27	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y-(G-E)	63.377	-2.53	-8.48	233.3	0.0020	5.00	
S219	Bx=50	X-(G+Q)	192.159	-8.90	-7.98	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X-(G+Q+E)	148.390	-6.75	-11.73	233.3	0.0020	5.00	ø10/19/9(etriye)
I:85		Y-(G+Q)	192.159	-6.18	-10.41	233.3	0.0020	5.00	Cx:1. Cy:1.
J:79	Hk=4.0m	Y-(G+Q+E)	142.398	-4.90	-12.59	233.3	0.0020	5.00	
	$\beta x = 1.000$	X-(G-E)	79.030	-3.09	-6.92	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y-(G-E)	84.818	-2.11	-6.81	233.3	0.0020	5.00	
S119	Bx=50	X-(G+Q)	235.353	-6.53	-7.06	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X-(G+Q+E)	180.570	-3.14	5.42	233.3	0.0020	5.00	ø10/19/9(etriye)
I:79		Y-(G+Q)	235.353	-4.92	-7.06	233.3	0.0020	5.00	Cx:1. Cy:1.
J:0	Hk=4.5m	Y-(G+Q+E)	173.170	-3.88	-5.71	233.3	0.0020	5.00	
	$\beta x = 1.000$	X-(G-E)	100.556	-2.03	-2.90	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y-(G-E)	107.687	-1.58	-3.89	233.3	0.0020	5.00	
S620	Bx=50	X-(G+Q)	9.370	-5.01	2.60	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X-(G+Q+E)	12.675	-4.58	8.30	233.3	0.0020	5.00	ø10/19/9(etriye)
I:102		Y-(G+Q)	9.370	2.28	-5.04	233.3	0.0020	5.00	Cx:1. Cy:1.
J:70	Hk=4.5m	Y-(G+Q+E)	3.855	2.12	-8.85	233.3	0.0020	5.00	
	$\beta x = 1.000$	X-(G-E)	0.059	-1.63	6.32	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y-(G-E)	2.339	0.37	3.08	233.3	0.0020	5.00	
S520	Bx=50	X-(G+Q)	37.193	-6.30	5.22	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X-(G+Q+E)	38.668	-5.28	10.84	233.3	0.0020	5.00	ø10/19/9(etriye)
I:70		Y-(G+Q)	37.193	5.22	-6.30	233.3	0.0020	5.00	Cx:1. Cy:1.
J:54	Hk=4.0m	Y-(G+Q+E)	19.718	4.08	-8.93	233.3	0.0020	5.00	
	$\beta x = 1.000$	X-(G-E)	10.374	-2.24	7.25	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y-(G-E)	12.753	1.37	1.04	233.3	0.0020	5.00	
S420	Bx=50	X-(G+Q)	68.600	-6.09	5.57	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X-(G+Q+E)	67.332	-5.12	11.18	233.3	0.0020	5.00	ø10/19/9(etriye)
I:54		Y-(G+Q)	68.600	5.57	-6.09	233.3	0.0020	5.00	Cx:1. Cy:1.
J:53	Hk=4.0m	Y-(G+Q+E)	38.237	4.43	-8.97	233.3	0.0020	5.00	
	$\beta x = 1.000$	X-(G-E)	23.370	-1.99	7.84	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y-(G-E)	25.546	1.70	1.66	233.3	0.0020	5.00	
S320	Bx=50	X-(G+Q)	99.659	-5.94	5.18	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X-(G+Q+E)	95.567	-4.92	10.35	233.3	0.0020	5.00	ø10/19/9(etriye)
I:53		Y-(G+Q)	99.659	5.18	-5.94	233.3	0.0020	5.00	Cx:1. Cy:1.
J:52	Hk=4.0m	Y-(G+Q+E)	56.759	4.09	-8.56	233.3	0.0020	5.00	
	$\beta x = 1.000$	X-(G-E)	36.567	-1.97	6.89	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y-(G-E)	38.553	1.57	0.91	233.3	0.0020	5.00	
S220	Bx=50	X-(G+Q)	129.653	-7.18	5.24	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X-(G+Q+E)	122.600	-5.88	8.84	233.3	0.0020	5.00	ø10/19/9(etriye)
I:52		Y-(G+Q)	129.653	5.11	-7.21	233.3	0.0020	5.00	Cx:1. Cy:1.
J:51	Hk=4.0m	Y-(G+Q+E)	75.215	4.07	-8.65	233.3	0.0020	5.00	
	$\beta x = 1.000$	X-(G-E)	50.458	-1.96	5.44	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y-(G-E)	52.260	1.95	0.30	233.3	0.0020	5.00	
S120	Bx=50	X-(G+Q)	158.373	-2.99	4.75	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X-(G+Q+E)	147.463	-1.65	4.42	233.3	0.0020	5.00	ø10/19/9(etriye)
I:51		Y-(G+Q)	158.373	3.26	-4.75	233.3	0.0020	5.00	Cx:1. Cy:1.
J:0	Hk=4.5m	Y-(G+Q+E)	146.287	0.97	4.39	233.3	0.0020	5.00	
	$\beta x = 1.000$	X-(G-E)	65.695	-1.54	2.31	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y-(G-E)	66.872	0.58	1.15	233.3	0.0020	5.00	
S521	Bx=50	X-(G+Q)	42.085	-24.61	1.75	233.3	0.0031	7.80	2×5ø16+2×3ø16 (govde)
	By=50	X-(G+Q+E)	33.529	-19.09	7.55	233.3	0.0027	6.83	ø10/19/9(etriye)
I:60		Y-(G+Q)	42.085	0.46	-25.46	233.3	0.0032	8.01	Cx:1. Cy:1.
J:36	Hk=4.0m	Y-(G+Q+E)	27.665	0.26	-21.08	233.3	0.0029	7.13	
	$\beta x = 1.000$	X-(G-E)	18.187	-8.21	6.34	233.3	0.0027	6.83	
A4 ✓	$\beta y = 1.000$	Y-(G-E)	18.573	0.19	-10.18	233.3	0.0029	7.13	
S421	Bx=50	X-(G+Q)	98.332	-18.76	-2.95	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X-(G+Q+E)	78.792	-13.38	5.88	233.3	0.0020	5.00	ø10/19/9(etriye)
I:36		Y-(G+Q)	98.332	0.44	-22.94	233.3	0.0023	5.79	Cx:1. Cy:1.
J:23	Hk=4.0m	Y-(G+Q+E)	65.063	0.24	-18.72	233.3	0.0021	5.31	
	$\beta x = 1.000$	X-(G-E)	45.779	-5.90	4.14	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y-(G-E)	43.489	0.17	-5.62	233.3	0.0021	5.31	
S321	Bx=50	X-(G+Q)	154.446	-18.60	-4.63	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X-(G+Q+E)	124.000	-12.88	5.65	233.3	0.0020	5.00	ø10/19/9(etriye)
I:23		Y-(G+Q)	154.446	0.44	-22.28	233.3	0.0020	5.02	Cx:1. Cy:1.
J:22	Hk=4.0m	Y-(G+Q+E)	102.530	0.29	-18.39	233.3	0.0020	5.00	
	$\beta x = 1.000$	X-(G-E)	73.266	-6.28	3.90	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y-(G-E)	69.578	-0.03	-6.17	233.3	0.0020	5.00	

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Kolon			N (t)	minor M	major M	fcd	ρ	As	Donatı
S221	Bx=50	X- (G+Q)	208.081	-23.64	-6.24	233.3	0.0022	5.43	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	167.650	-20.39	5.03	233.3	0.0020	5.00	ø10/19/9 (etriye)
I:22		Y- (G+Q)	208.081	0.17	-26.15	233.3	0.0022	5.61	Cx:1. Cy:1.
J:21	Hk=4.0m	Y- (G+Q+E)	138.712	0.05	-20.69	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	100.855	-6.44	2.59	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	96.040	-0.12	-7.24	233.3	0.0020	5.00	
S121	Bx=50	X- (G+Q)	258.959	-17.22	-7.77	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	209.473	-5.64	6.28	233.3	0.0020	5.00	ø10/19/9 (etriye)
I:21		Y- (G+Q)	258.959	-1.51	-17.22	233.3	0.0020	5.00	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	179.124	-0.43	-11.97	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	128.220	-5.77	0.40	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	122.769	-0.41	-1.97	233.3	0.0020	5.00	
S522	Bx=50	X- (G+Q)	41.032	-16.84	-3.75	233.3	0.0022	5.52	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	28.850	-14.61	-9.05	233.3	0.0023	5.83	ø10/19/9 (etriye)
I:62		Y- (G+Q)	41.032	-1.31	-25.81	233.3	0.0033	8.20	Cx:1. Cy:1.
J:30	Hk=4.0m	Y- (G+Q+E)	27.027	-1.91	-21.28	233.3	0.0029	7.31	
	$\beta x = 1.000$	X- (G-E)	17.430	-8.13	-7.51	233.3	0.0023	5.83	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	18.072	-1.20	-10.20	233.3	0.0029	7.31	
S422	Bx=50	X- (G+Q)	96.326	-11.72	-2.89	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	67.460	-15.44	-7.24	233.3	0.0020	5.00	ø10/19/9 (etriye)
I:30		Y- (G+Q)	96.326	-0.62	-23.32	233.3	0.0024	5.92	Cx:1. Cy:1.
J:12	Hk=4.0m	Y- (G+Q+E)	63.837	-0.56	-19.02	233.3	0.0022	5.43	
	$\beta x = 1.000$	X- (G-E)	44.284	-5.80	-4.97	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	42.767	-0.51	-5.72	233.3	0.0022	5.43	
S322	Bx=50	X- (G+Q)	151.611	-13.41	-4.55	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	106.090	-15.22	-6.86	233.3	0.0020	5.00	ø10/19/9 (etriye)
I:12		Y- (G+Q)	151.611	-0.41	-22.66	233.3	0.0021	5.13	Cx:1. Cy:1.
J:6	Hk=4.0m	Y- (G+Q+E)	100.767	-0.36	-18.72	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	71.128	-6.18	-4.68	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	68.359	-0.69	-6.14	233.3	0.0020	5.00	
S222	Bx=50	X- (G+Q)	204.697	-14.07	-6.14	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	165.785	-20.23	4.97	233.3	0.0020	5.00	ø10/19/9 (etriye)
I:6		Y- (G+Q)	204.697	-0.02	-26.39	233.3	0.0023	5.67	Cx:1. Cy:1.
J:5	Hk=4.0m	Y- (G+Q+E)	136.558	-0.07	-21.00	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	98.207	-6.36	-3.26	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	94.489	-0.56	-7.20	233.3	0.0020	5.00	
S122	Bx=50	X- (G+Q)	255.269	-10.44	-7.66	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	207.439	-7.98	6.22	233.3	0.0020	5.00	ø10/19/9 (etriye)
I:5		Y- (G+Q)	255.269	-0.56	-17.39	233.3	0.0020	5.00	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	178.797	0.16	-12.30	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	125.366	-5.99	-0.73	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	120.979	-0.47	-1.75	233.3	0.0020	5.00	
S523	Bx=50	X- (G+Q)	39.535	-8.28	4.30	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	32.440	-5.81	11.46	233.3	0.0020	5.00	ø10/19/9 (etriye)
I:72		Y- (G+Q)	39.535	4.30	-8.28	233.3	0.0020	5.00	Cx:1. Cy:1.
J:58	Hk=4.0m	Y- (G+Q+E)	27.415	3.35	-13.53	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	15.783	-1.66	9.80	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	16.921	1.29	-10.44	233.3	0.0020	5.00	
S423	Bx=50	X- (G+Q)	90.885	-7.89	3.87	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	74.644	-5.53	10.19	233.3	0.0020	5.00	ø10/19/9 (etriye)
I:58		Y- (G+Q)	90.885	3.87	-7.89	233.3	0.0020	5.00	Cx:1. Cy:1.
J:35	Hk=4.0m	Y- (G+Q+E)	64.736	2.97	-12.37	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	39.042	-1.64	7.08	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	39.546	1.14	-8.02	233.3	0.0020	5.00	
S323	Bx=50	X- (G+Q)	142.032	-7.90	4.26	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	116.701	-5.45	9.87	233.3	0.0020	5.00	ø10/19/9 (etriye)
I:35		Y- (G+Q)	142.032	3.81	-7.90	233.3	0.0020	5.00	Cx:1. Cy:1.
J:20	Hk=4.0m	Y- (G+Q+E)	101.671	2.90	-12.12	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	62.238	-1.67	6.82	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	62.363	1.20	-7.78	233.3	0.0020	5.00	
S223	Bx=50	X- (G+Q)	190.798	-9.77	5.72	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	157.135	-6.85	9.42	233.3	0.0020	5.00	ø10/19/9 (etriye)
I:20		Y- (G+Q)	190.798	4.32	-9.77	233.3	0.0020	5.00	Cx:1. Cy:1.
J:18	Hk=4.0m	Y- (G+Q+E)	136.895	3.25	-12.29	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	85.636	-1.97	5.43	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	85.457	1.26	-6.62	233.3	0.0020	5.00	
S123	Bx=50	X- (G+Q)	236.731	-6.36	7.10	233.3	0.0020	5.00	2×5ø16+2×3ø16 (govde)
	By=50	X- (G+Q+E)	195.502	-3.00	5.87	233.3	0.0020	5.00	ø10/19/9 (etriye)
I:18		Y- (G+Q)	236.731	2.74	-7.10	233.3	0.0020	5.00	Cx:1. Cy:1.
J:0	Hk=4.5m	Y- (G+Q+E)	169.790	1.21	-6.02	233.3	0.0020	5.00	
	$\beta x = 1.000$	X- (G-E)	109.317	-2.49	1.98	233.3	0.0020	5.00	
A4 ✓	$\beta y = 1.000$	Y- (G-E)	109.163	0.94	-4.06	233.3	0.0020	5.00	

KOLON BETONARME HESAP SONUÇLARI

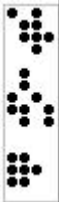
Kolon			N (t)	minor M	major M	fcd	ρ	As	Donatı
S524	Bx=50	X-(G+Q)	32.474	-8.20	-9.87	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X-(G+Q+E)	24.564	-7.63	-14.71	233.3	0.0023	5.73	ø10/19/9(etriye)
I:66		Y-(G+Q)	32.474	-9.87	-8.20	233.3	0.0020	5.00	Cx:1. Cy:1.
J:40	Hk=4.0m	Y-(G+Q+E)	23.832	-7.21	-14.30	233.3	0.0022	5.56	
	$\beta_x = 1.000$	X-(G-E)	11.787	-0.85	-11.29	233.3	0.0023	5.73	
A4 ✓	$\beta_y = 1.000$	Y-(G-E)	12.519	-3.10	-11.26	233.3	0.0022	5.56	
S424	Bx=50	X-(G+Q)	73.434	-7.85	-8.61	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X-(G+Q+E)	56.661	-7.37	-13.27	233.3	0.0020	5.00	ø10/19/9(etriye)
I:40		Y-(G+Q)	73.434	-8.61	-7.85	233.3	0.0020	5.00	Cx:1. Cy:1.
J:29	Hk=4.0m	Y-(G+Q+E)	53.806	-6.82	-12.61	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X-(G-E)	28.032	-1.16	-9.02	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y-(G-E)	30.886	-2.49	-7.83	233.3	0.0020	5.00	
S324	Bx=50	X-(G+Q)	115.441	-7.56	-8.21	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X-(G+Q+E)	89.427	-7.20	-12.76	233.3	0.0020	5.00	ø10/19/9(etriye)
I:29		Y-(G+Q)	115.441	-8.21	-7.56	233.3	0.0020	5.00	Cx:1. Cy:1.
J:13	Hk=4.0m	Y-(G+Q+E)	84.378	-6.56	-12.15	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X-(G-E)	44.737	-1.06	-8.57	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y-(G-E)	49.786	-2.37	-7.65	233.3	0.0020	5.00	
S224	Bx=50	X-(G+Q)	156.507	-8.12	-8.35	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X-(G+Q+E)	121.424	-7.90	-12.03	233.3	0.0020	5.00	ø10/19/9(etriye)
I:13		Y-(G+Q)	156.507	-8.35	-8.12	233.3	0.0020	5.00	Cx:1. Cy:1.
J:7	Hk=4.0m	Y-(G+Q+E)	114.182	-6.84	-11.42	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X-(G-E)	62.194	-1.33	-7.17	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y-(G-E)	69.437	-2.19	-6.18	233.3	0.0020	5.00	
S124	Bx=50	X-(G+Q)	197.999	-5.17	-5.94	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X-(G+Q+E)	152.470	-2.10	4.57	233.3	0.0020	5.00	ø10/19/9(etriye)
I:7		Y-(G+Q)	197.999	-4.99	-5.94	233.3	0.0020	5.00	Cx:1. Cy:1.
J:0	Hk=4.5m	Y-(G+Q+E)	143.773	-2.42	-5.77	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X-(G-E)	82.098	-2.08	-3.01	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y-(G-E)	90.795	-1.61	-3.54	233.3	0.0020	5.00	
S525	Bx=50	X-(G+Q)	16.158	-1.40	-4.67	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X-(G+Q+E)	7.587	-2.59	-8.01	233.3	0.0020	5.00	ø10/19/9(etriye)
I:63		Y-(G+Q)	16.158	-3.89	-1.57	233.3	0.0020	5.00	Cx:1. Cy:1.
J:33	Hk=4.0m	Y-(G+Q+E)	11.743	-3.09	-10.12	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X-(G-E)	4.302	1.01	2.72	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y-(G-E)	7.367	-1.71	-8.22	233.3	0.0020	5.00	
S425	Bx=50	X-(G+Q)	41.097	-0.73	-3.88	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X-(G+Q+E)	19.019	-2.13	-7.21	233.3	0.0020	5.00	ø10/19/9(etriye)
I:33		Y-(G+Q)	41.097	-3.12	-1.42	233.3	0.0020	5.00	Cx:1. Cy:1.
J:15	Hk=4.0m	Y-(G+Q+E)	29.408	-2.57	-8.22	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X-(G-E)	11.413	0.87	2.07	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y-(G-E)	20.188	-1.10	-5.33	233.3	0.0020	5.00	
S325	Bx=50	X-(G+Q)	65.390	-1.33	-3.52	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X-(G+Q+E)	30.172	-2.53	-7.02	233.3	0.0020	5.00	ø10/19/9(etriye)
I:15		Y-(G+Q)	65.390	-3.03	-1.96	233.3	0.0020	5.00	Cx:1. Cy:1.
J:8	Hk=4.0m	Y-(G+Q+E)	46.435	-2.54	-7.41	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X-(G-E)	18.441	0.91	1.92	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y-(G-E)	32.971	-1.02	-5.09	233.3	0.0020	5.00	
S225	Bx=50	X-(G+Q)	88.434	-0.85	-2.65	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X-(G+Q+E)	93.062	1.62	3.77	233.3	0.0020	5.00	ø10/19/9(etriye)
I:8		Y-(G+Q)	88.434	-1.95	-2.65	233.3	0.0020	5.00	Cx:1. Cy:1.
J:14	Hk=4.0m	Y-(G+Q+E)	62.187	-1.85	-9.96	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X-(G-E)	25.657	0.78	1.36	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y-(G-E)	44.892	-0.91	-3.64	233.3	0.0020	5.00	
S125	Bx=50	X-(G+Q)	31.604	-0.12	-0.95	233.3	0.0020	5.00	2x5ø16+2x3ø16 (govde)
	By=50	X-(G+Q+E)	24.389	0.04	-2.27	233.3	0.0020	5.00	ø10/9(etriye)
I:14		Y-(G+Q)	31.604	-0.43	-0.95	233.3	0.0020	5.00	Cx:1. Cy:1.
J:0	Hk=4.5m	Y-(G+Q+E)	40.156	-0.36	4.94	233.3	0.0020	5.00	
	$\beta_x = 1.000$	X-(G-E)	15.302	-0.63	0.19	233.3	0.0020	5.00	
A4 ✓	$\beta_y = 1.000$	Y-(G-E)	4.564	-0.05	-4.74	233.3	0.0020	5.00	

 β_x, β_y : Kolon Moment büyütme katsayısı

Cx,Cy : Güçlü kolon Moment büyütme katsayısı

Ck : Kiriş üstüne oturan kolonların Dinamik Etki çarpanı

A4 : (Ba=Bax+0.3*Bay, Ba=0.3*Bax+Bay)

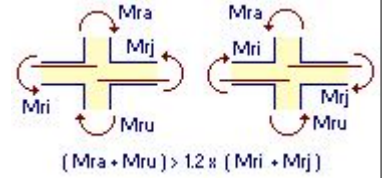


PANEL BETONARME HESAP SONUÇLARI

Panel			N (t)	maxM	fcd	ρ	As	Donatı
P105	Bx=140 By=30 I/J :82/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) Y-(Zemin)	97.809 90.856 97.809 99.274 97.809	5.58 31.67 2.35 2.38 8.91	233.3 233.3 233.3 233.3 233.3	0.0010 0.0010 0.0016 0.0010 0.0016	4.20 4.20 6.56 4.20 4.69	2x7ø16 (düşey) ø10/20 (yatay)
P106	Bx=30 By=276 I/J :114/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) X-(Zemin)	120.928 146.831 120.928 171.805 120.928	2.90 3.52 11.83 -134.29 8.91	233.3 233.3 233.3 233.3 233.3	0.0033 0.0010 0.0010 0.0010 0.0033	27.15 8.28 8.28 8.28 9.84	2x14ø20 (düşey) ø10/20 (yatay)
P107	Bx=30 By=524 I/J :115/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) X-(Zemin)	159.970 132.513 159.970 178.647 159.970	4.66 4.62 -39.27 -462.60 8.91	233.3 233.3 233.3 233.3 233.3	0.0040 0.0010 0.0010 0.0010 0.0040	62.39 15.72 15.72 15.72 11.91	2x29ø20 (düşey) ø10/20 (yatay)
P108	Bx=30 By=560 I/J :138/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) X-(Zemin)	145.215 137.868 145.215 119.796 145.215	3.49 4.44 -40.60 -551.87 8.91	233.3 233.3 233.3 233.3 233.3	0.0042 0.0010 0.0010 0.0010 0.0042	70.84 16.80 16.80 16.80 12.65	2x32ø20 (düşey) ø10/20 (yatay)
P109	Bx=640 By=30 I/J :140/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) Y-(Zemin)	119.455 91.706 119.455 120.303 119.455	24.73 -609.07 2.87 4.08 8.91	233.3 233.3 233.3 233.3 233.3	0.0010 0.0010 0.0046 0.0010 0.0046	19.21 19.21 88.56 19.21 13.83	2x39ø20 (düşey) ø10/20 (yatay)
P110	Bx=540 By=30 I/J :139/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) Y-(Zemin)	192.087 156.378 192.087 160.694 192.087	-33.99 411.79 4.61 4.36 8.91	233.3 233.3 233.3 233.3 233.3	0.0010 0.0010 0.0037 0.0010 0.0037	16.19 16.19 59.95 16.19 11.11	2x28ø20 (düşey) ø10/20 (yatay)
P111	Bx=230 By=30 I/J :135/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) Y-(Zemin)	113.666 94.133 113.666 96.658 113.666	9.55 81.57 2.73 2.32 8.91	233.3 233.3 233.3 233.3 233.3	0.0010 0.0010 0.0030 0.0010 0.0030	6.90 6.90 20.40 6.90 8.87	2x11ø20 (düşey) ø10/20 (yatay)
P112	Bx=550 By=30 I/J :55/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) Y-(Zemin)	178.939 152.685 178.939 146.412 178.939	-32.21 429.76 4.29 3.83 8.91	233.3 233.3 233.3 233.3 233.3	0.0010 0.0010 0.0039 0.0010 0.0039	16.50 16.50 63.74 16.50 11.59	2x30ø20 (düşey) ø10/20 (yatay)
P113	Bx=550 By=30 I/J :93/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) Y-(Zemin)	232.214 188.650 232.214 191.524 232.214	-41.80 422.60 5.57 4.60 8.91	233.3 233.3 233.3 233.3 233.3	0.0010 0.0010 0.0034 0.0010 0.0034	16.50 16.50 55.38 16.50 10.07	2x27ø20 (düşey) ø10/20 (yatay)
P114	Bx=540 By=30 I/J :111/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) Y-(Zemin)	183.543 154.665 183.543 153.226 183.543	-32.49 413.66 4.41 3.68 8.91	233.3 233.3 233.3 233.3 233.3	0.0010 0.0010 0.0038 0.0010 0.0038	16.20 16.20 61.35 16.20 11.36	2x29ø20 (düşey) ø10/20 (yatay)
P115	Bx=270 By=30 I/J :56/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) Y-(Zemin)	90.541 89.467 90.541 110.849 90.541	-14.35 109.76 2.17 2.66 8.91	233.3 233.3 233.3 233.3 233.3	0.0010 0.0010 0.0038 0.0010 0.0038	8.10 8.10 30.89 8.10 11.44	2x15ø20 (düşey) ø10/20 (yatay)
P116	Bx=30 By=380 I/J :38/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) X-(Zemin)	92.980 99.526 92.980 85.158 92.980	-2.23 2.54 -19.15 -328.82 8.91	233.3 233.3 233.3 233.3 233.3	0.0043 0.0010 0.0010 0.0010 0.0043	49.01 11.41 11.59 11.59 12.89	2x22ø20 (düşey) ø10/20 (yatay)
P117	Bx=30 By=320 I/J :9/0 Hk = 4.500 m Asw= 7.50 cm ² /m	X-(G+Q) X-(G+Q+E) Y-(G+Q) Y-(G+Q+E) X-(Zemin)	121.067 198.009 121.067 200.164 121.067	-2.91 4.75 13.43 -232.51 8.91	233.3 233.3 233.3 233.3 233.3	0.0036 0.0010 0.0010 0.0010 0.0036	34.41 9.60 9.60 9.60 10.76	2x17ø20 (düşey) ø10/20 (yatay)

GÜÇLÜ KOLONLARIN, KAT KESME GÜVENLİĞİ (t)

Kat	Dyf	Vsx	Vkx	α_x	Vsy	Vky	α_y
1	1	1592.60	1592.60	1.00	1624.96	1624.96	1.00
2	2	1022.36	1022.36	1.00	1043.13	1043.13	1.00
3	3	883.56	883.56	1.00	898.11	898.11	1.00
4	4	704.52	704.52	1.00	719.01	719.01	1.00
5	5	461.12	461.12	1.00	475.24	475.24	1.00
6	6	115.37	115.37	1.00	127.53	127.53	1.00



Vs/Vk > .70 KOŞULU SAĞLANMAKTADIR. GÜÇLÜ KOLONLAR, (1/α) ile ÇARPILMIŞTIR.
Bodrum katlar; normal sünek kat olup, güçlü kolon kontrolü yeterliliği aranmaz.

GÜÇLÜ KOLON KONTROLÜ (tm)

Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S501(1653.41)	1653.41	K501(18.87)+K544(16.02)	41.87	Kolon üst kat koşulu
-X	S501(1995.44)	1995.44	K501(22.23)+K544(29.06)	61.55	Kolon üst kat koşulu
+Y	S501(4297.54)	4297.54	K517(12.15)+K542(12.15)	29.16	Kolon üst kat koşulu
-Y	S501(4056.29)	4056.29	K517(12.15)+K542(16.02)	33.8	Kolon üst kat koşulu
+X	S501(1653.41)+S401(1911.89)	3565.3	K401(18.87)+K444(18.15)	44.43	Nd < 0,10.Ac.fck koşulu
-X	S501(1995.44)+S401(2307.39)	4302.83	K401(27.63)+K444(34.41)	74.46	Nd < 0,10.Ac.fck koşulu
+Y	S501(4297.54)+S401(4692.15)	8989.69	K417(12.15)+K442(12.15)	29.16	Nd < 0,10.Ac.fck koşulu
-Y	S501(4056.29)+S401(4350.91)	8407.19	K417(12.15)+K442(16.02)	33.8	Nd < 0,10.Ac.fck koşulu
+X	S401(1911.89)+S301(2138.54)	4050.43	K301(18.87)+K344(16.02)	41.87	Nd < 0,10.Ac.fck koşulu
-X	S401(2307.39)+S301(2580.92)	4888.31	K301(27.63)+K344(30.58)	69.86	Nd < 0,10.Ac.fck koşulu
+Y	S401(4692.15)+S301(5107.16)	9799.31	K317(12.15)+K342(12.15)	29.16	Nd < 0,10.Ac.fck koşulu
-Y	S401(4350.91)+S301(4657.69)	9008.59	K317(12.15)+K342(16.02)	33.8	Nd < 0,10.Ac.fck koşulu
+X	S301(2138.54)+S201(2355.14)	4493.68	K201(18.87)+K244(18.15)	44.43	Nd < 0,10.Ac.fck koşulu
-X	S301(2580.92)+S201(2834.91)	5415.83	K201(27.63)+K244(34.41)	74.46	Nd < 0,10.Ac.fck koşulu
+Y	S301(5107.16)+S201(5507.21)	10614.3	K217(12.15)+K242(12.15)	29.16	Nd < 0,10.Ac.fck koşulu
-Y	S301(4657.69)+S201(4940.05)	9597.74	K217(12.15)+K242(16.02)	33.8	Nd < 0,10.Ac.fck koşulu
+X	S201(2355.14)+S101(2788.8)	5143.94	K101(12.15)+K144(16.02)	33.8	Panel başlığı
-X	S201(2834.91)+S101(3375.29)	6210.2	K101(16.02)+K144(23.94)	47.94	Panel başlığı
+Y	S201(5507.21)+S101(7260.19)	12767.3	K117(12.15)+K142(12.15)	29.16	Panel başlığı
-Y	S201(4940.05)+S101(6409.73)	11349.7	K117(12.15)+K142(12.15)	29.16	Panel başlığı
+X	S602(7328.05)	7328.05	K604(16.2)	19.44	Kolon üst kat koşulu
-X	S602(7971.48)	7971.48	K604(18.87)	22.65	Kolon üst kat koşulu
+Y	S602(7184.67)	7184.67	K624(16.2)+K625(12.15)+K632(12.15)	63.18	Kolon üst kat koşulu
-Y	S602(7138.53)	7138.53	K624(18.87)+K625(16.02)+K632(12.15)	75.67	Kolon üst kat koşulu
+X	S602(7328.05)+S502(8127.37)	15455.4	K504(16.2)+K505(12.15)+K529(18.87)	104.07	Kolon üst kat koşulu
-X	S602(7971.48)+S502(8842.86)	16814.3	K504(18.87)+K505(12.15)+K529(30.62)	108.6	Kolon üst kat koşulu
+Y	S602(7184.67)+S502(7989.49)	15174.1	K524(30.62)+K525(12.15)+K532(12.15)	80.49	Kolon üst kat koşulu
-Y	S602(7138.53)+S502(7958.83)	15097.3	K524(18.87)+K525(18.62)+K532(20.08)	94.16	Kolon üst kat koşulu
+X	S502(8127.37)+S402(9300.13)	17427.5	K404(16.2)+K405(12.15)+K429(18.87)	107.95	Nd < 0,10.Ac.fck koşulu
-X	S502(8842.86)+S402(10900.11)	19742.9	K404(18.87)+K405(12.15)+K429(30.62)	107.78	Nd < 0,10.Ac.fck koşulu
+Y	S502(7989.49)+S402(9161.39)	17150.8	K424(26.47)+K425(12.15)+K432(12.15)	75.51	Nd < 0,10.Ac.fck koşulu
-Y	S502(7958.83)+S402(9499.25)	17458.0	K424(18.87)+K425(22.34)+K432(20.08)	102.8	Nd < 0,10.Ac.fck koşulu
+X	S402(9300.13)+S302(10070.52)	19370.6	K304(16.2)+K305(12.15)+K329(18.87)	99.43	Nd < 0,10.Ac.fck koşulu
-X	S402(10900.11)+S302(11770.26)	22670.3	K304(18.87)+K305(12.15)+K329(30.62)	114.53	Nd < 0,10.Ac.fck koşulu
+Y	S402(9161.39)+S302(9900.45)	19061.8	K324(26.47)+K325(12.15)+K332(12.15)	75.51	Nd < 0,10.Ac.fck koşulu
-Y	S402(9499.25)+S302(10315.48)	19814.7	K324(18.87)+K325(22.34)+K332(20.08)	102.8	Nd < 0,10.Ac.fck koşulu
+X	S302(10070.52)+S202(10810.53)	20881.0	K204(16.2)+K205(12.15)+K229(18.87)	95	Nd < 0,10.Ac.fck koşulu
-X	S302(11770.26)+S202(12573.11)	24343.3	K204(18.87)+K205(12.15)+K229(30.62)	107.78	Nd < 0,10.Ac.fck koşulu
+Y	S302(9900.45)+S202(10596.56)	20497.0	K224(26.47)+K225(12.15)+K232(12.15)	75.51	Nd < 0,10.Ac.fck koşulu
-Y	S302(10315.48)+S202(11091.63)	21407.1	K224(18.87)+K225(22.34)+K232(20.08)	102.8	Nd < 0,10.Ac.fck koşulu
+X	S202(10810.53)+S102(13197.95)	24008.4	K104(12.15)+K105(12.15)+K129(12.15)	85.61	Panel başlığı
-X	S202(12573.11)+S102(14731.99)	27305.1	K104(12.15)+K105(12.15)+K129(20.08)	85	Panel başlığı
+Y	S202(10596.56)+S102(11752.95)	22349.5	K124(20.08)+K125(12.15)+K132(12.15)	67.84	Panel başlığı
-Y	S202(11091.63)+S102(12446.43)	23538.0	K124(18.87)+K125(12.15)+K132(12.15)	71.03	Panel başlığı
+X	S503(1823.43)	1823.43	K505(12.15)+K549(12.15)	29.16	Kolon üst kat koşulu
-X	S503(2231.22)	2231.22	K505(12.15)+K549(12.15)	29.16	Kolon üst kat koşulu
+Y	S503(1226.51)	1226.51	K506(18.87)	22.65	Kolon üst kat koşulu
-Y	S503(1216.3)	1216.3	K506(16.2)	19.44	Kolon üst kat koşulu
+X	S503(1823.43)+S403(2015.49)	3838.92	K405(12.15)+K449(12.15)	29.16	Nd < 0,10.Ac.fck koşulu
-X	S503(2231.22)+S403(2457.52)	4688.74	K405(12.15)+K449(12.15)	29.16	Nd < 0,10.Ac.fck koşulu
+Y	S503(1226.51)+S403(1348.15)	2574.65	K406(18.87)	22.65	Nd < 0,10.Ac.fck koşulu
-Y	S503(1216.3)+S403(1336.93)	2553.23	K406(20.08)	24.1	Nd < 0,10.Ac.fck koşulu
+X	S403(2015.49)+S303(2707.74)	4723.23	K305(12.15)+K349(12.15)	29.16	Nd < 0,10.Ac.fck koşulu
-X	S403(2457.52)+S303(3077.65)	5535.16	K305(12.15)+K349(12.15)	29.16	Nd < 0,10.Ac.fck koşulu
+Y	S403(1348.15)+S303(1765.87)	3114.02	K306(18.87)	22.65	Nd < 0,10.Ac.fck koşulu
-Y	S403(1336.93)+S303(1752.21)	3089.14	K306(20.08)	24.1	Nd < 0,10.Ac.fck koşulu

GÜÇLÜ KOLON KONTROLU (tm)

Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S303(2707.74)+S203(2972.95)	5680.69	K205(12.15)+K249(12.15)	29.16	Nd < 0,10.Ac.fck koşulu
-X	S303(3077.65)+S203(3399.1)	6476.74	K205(12.15)+K249(12.15)	29.16	Nd < 0,10.Ac.fck koşulu
+Y	S303(1765.87)+S203(1829.23)	3595.1	K206(18.87)	22.65	Nd < 0,10.Ac.fck koşulu
-Y	S303(1752.21)+S203(1815.08)	3567.3	K206(20.08)	24.1	Nd < 0,10.Ac.fck koşulu
+X	S203(2972.95)+S103(3394.81)	6367.75	K105(12.15)+K149(12.15)	29.16	Panel başlığı
-X	S203(3399.1)+S103(3891.15)	7290.25	K105(12.15)+K149(12.15)	29.16	Panel başlığı
+Y	S203(1829.23)+S103(2233.7)	4062.93	K106(18.87)	22.65	Panel başlığı
-Y	S203(1815.08)+S103(2221.33)	4036.41	K106(20.08)	24.1	Panel başlığı
+X	S504(226.76)	226.76	K544(18.15)+K546(12.15)	36.36	Kolon üst kat koşulu
-X	S504(226.76)	226.76	K544(12.15)+K546(18.62)	36.93	Kolon üst kat koşulu
+Y	S504(29.79)	29.79	K518(31.31)+K519(18.87)	60.22	Kolon üst kat koşulu
-Y	S504(29.79)	29.79	K518(30.62)+K519(33.8)	77.3	Kolon üst kat koşulu
+X	S504(226.76)+S404(263.4)	490.16	K444(23.94)+K446(12.15)	43.3	Nd < 0,10.Ac.fck koşulu
-X	S504(226.76)+S404(263.4)	490.16	K444(16.02)+K446(22.34)	46.03	Nd < 0,10.Ac.fck koşulu
+Y	S504(29.79)+S404(36.43)	66.22	K418(39.33)+K419(18.87)	69.84	Perde zayıf yönü koşulu
-Y	S504(29.79)+S404(36.43)	66.22	K418(30.62)+K419(39.33)	83.94	Perde zayıf yönü koşulu
+X	S404(263.4)+S304(317.14)	580.54	K344(23.94)+K346(12.15)	43.3	Nd < 0,10.Ac.fck koşulu
-X	S404(263.4)+S304(317.14)	580.54	K344(16.02)+K346(22.34)	46.03	Nd < 0,10.Ac.fck koşulu
+Y	S404(36.43)+S304(42.8)	79.23	K318(39.33)+K319(18.87)	69.84	Perde zayıf yönü koşulu
-Y	S404(36.43)+S304(42.8)	79.23	K318(30.62)+K319(39.33)	83.94	Perde zayıf yönü koşulu
+X	S304(317.14)+S204(355.41)	672.55	K244(23.94)+K246(12.15)	43.3	Nd < 0,10.Ac.fck koşulu
-X	S304(317.14)+S204(355.41)	672.55	K244(16.02)+K246(22.34)	46.03	Nd < 0,10.Ac.fck koşulu
+Y	S304(42.8)+S204(50.49)	93.29	K218(59.79)+K219(18.87)	94.4	Perde zayıf yönü koşulu
-Y	S304(42.8)+S204(50.49)	93.29	K218(30.62)+K219(59.79)	108.5	Perde zayıf yönü koşulu
+X	S204(355.41)+S104(395.91)	751.32	K144(19.8)+K146(12.15)	38.33	Bodrum kat
-X	S204(355.41)+S104(395.91)	751.32	K144(12.15)+K146(16.02)	33.8	Bodrum kat
+Y	S204(50.49)+S104(55.6)	106.09	K118(38.45)+K119(18.87)	68.79	Bodrum kat
-Y	S204(50.49)+S104(55.6)	106.09	K118(30.62)+K119(40.85)	85.77	Bodrum kat
+X	S505(221.95)	221.95	K546(18.62)+K547(12.15)	36.93	Kolon üst kat koşulu
-X	S505(221.95)	221.95	K546(12.15)+K547(16.02)	33.8	Kolon üst kat koşulu
+Y	S505(29.19)	29.19	K521(31.31)+K522(18.87)	60.22	Kolon üst kat koşulu
-Y	S505(29.19)	29.19	K521(30.62)+K522(33.8)	77.3	Kolon üst kat koşulu
+X	S505(221.95)+S405(254.23)	476.17	K446(22.34)+K447(12.15)	41.39	Nd < 0,10.Ac.fck koşulu
-X	S505(221.95)+S405(254.23)	476.17	K446(12.15)+K447(18.15)	36.36	Nd < 0,10.Ac.fck koşulu
+Y	S505(29.19)+S405(35.14)	64.33	K421(39.33)+K422(18.87)	69.84	Perde zayıf yönü koşulu
-Y	S505(29.19)+S405(35.14)	64.33	K421(30.62)+K422(39.33)	83.94	Perde zayıf yönü koşulu
+X	S405(254.23)+S305(288.99)	543.21	K346(22.34)+K347(12.15)	41.39	Nd < 0,10.Ac.fck koşulu
-X	S405(254.23)+S305(288.99)	543.21	K346(12.15)+K347(18.15)	36.36	Nd < 0,10.Ac.fck koşulu
+Y	S405(35.14)+S305(40.89)	76.03	K321(50.3)+K322(18.87)	83.01	Perde zayıf yönü koşulu
-Y	S405(35.14)+S305(40.89)	76.03	K321(30.62)+K322(50.3)	97.11	Perde zayıf yönü koşulu
+X	S305(288.99)+S205(340.23)	629.22	K246(22.34)+K247(12.15)	41.39	Nd < 0,10.Ac.fck koşulu
-X	S305(288.99)+S205(340.23)	629.22	K246(12.15)+K247(18.15)	36.36	Nd < 0,10.Ac.fck koşulu
+Y	S305(40.89)+S205(48.17)	89.06	K221(59.79)+K222(18.87)	94.4	Perde zayıf yönü koşulu
-Y	S305(40.89)+S205(48.17)	89.06	K221(30.62)+K222(59.79)	108.5	Perde zayıf yönü koşulu
+X	S205(340.23)+S105(367.46)	707.69	K146(16.02)+K147(12.15)	33.8	Bodrum kat
-X	S205(340.23)+S105(367.46)	707.69	K146(12.15)+K147(12.15)	29.16	Bodrum kat
+Y	S205(48.17)+S105(52.93)	101.11	K121(38.45)+K122(18.87)	68.79	Bodrum kat
-Y	S205(48.17)+S105(52.93)	101.11	K121(30.62)+K122(40.85)	85.77	Bodrum kat
+X	S506(210.97)	210.97	K538(12.15)+K539(18.62)	36.93	Kolon üst kat koşulu
-X	S506(210.97)	210.97	K538(18.62)+K539(12.15)	36.93	Kolon üst kat koşulu
+Y	S506(27.61)	27.61	K522(18.87)+K523(12.15)	37.23	Kolon üst kat koşulu
-Y	S506(27.61)	27.61	K522(18.87)+K523(18.62)	45	Kolon üst kat koşulu
+X	S506(210.97)+S406(242.81)	453.78	K438(12.15)+K439(22.34)	41.39	Nd < 0,10.Ac.fck koşulu
-X	S506(210.97)+S406(242.81)	453.78	K438(22.34)+K439(12.15)	41.39	Nd < 0,10.Ac.fck koşulu
+Y	S506(27.61)+S406(32.02)	59.63	K422(30.62)+K423(18.62)	59.1	Perde zayıf yönü koşulu
-Y	S506(27.61)+S406(32.02)	59.63	K422(18.87)+K423(29.93)	58.57	Perde zayıf yönü koşulu
+X	S406(242.81)+S306(272.62)	515.43	K338(12.15)+K339(22.34)	41.39	Nd < 0,10.Ac.fck koşulu
-X	S406(242.81)+S306(272.62)	515.43	K338(22.34)+K339(12.15)	41.39	Nd < 0,10.Ac.fck koşulu
+Y	S406(32.02)+S306(36.25)	68.27	K322(28.56)+K323(18.62)	56.62	Perde zayıf yönü koşulu
-Y	S406(32.02)+S306(36.25)	68.27	K322(18.87)+K323(27.96)	56.2	Perde zayıf yönü koşulu
+X	S306(272.62)+S206(306.06)	578.68	K238(12.15)+K239(22.34)	41.39	Nd < 0,10.Ac.fck koşulu
-X	S306(272.62)+S206(306.06)	578.68	K238(22.34)+K239(12.15)	41.39	Nd < 0,10.Ac.fck koşulu
+Y	S306(36.25)+S206(42.27)	78.52	K222(30.62)+K223(18.62)	59.1	Perde zayıf yönü koşulu
-Y	S306(36.25)+S206(42.27)	78.52	K222(18.87)+K223(29.93)	58.57	Perde zayıf yönü koşulu
+X	S206(306.06)+S106(327.39)	633.45	K138(12.15)+K139(16.02)	33.8	Bodrum kat
-X	S206(306.06)+S106(327.39)	633.45	K138(16.02)+K139(12.15)	33.8	Bodrum kat
+Y	S206(42.27)+S106(45.81)	88.08	K122(18.87)+K123(18.62)	45	Bodrum kat
-Y	S206(42.27)+S106(45.81)	88.08	K122(18.87)+K123(18.62)	45	Bodrum kat

GÜÇLÜ KOLON KONTROLU (tm)

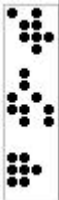
Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S607(194.76)	194.76	K637(12.15)	14.58	Kolon üst kat koşulu
-X	S607(194.76)	194.76	K637(12.15)	14.58	Kolon üst kat koşulu
+Y	S607(25.5)	25.5	K625(12.15)	14.58	Kolon üst kat koşulu
-Y	S607(25.5)	25.5	K625(12.15)	14.58	Kolon üst kat koşulu
+X	S607(194.76)+S507(219.53)	414.29	K537(12.15)+K538(18.62)	36.93	Kolon üst kat koşulu
-X	S607(194.76)+S507(219.53)	414.29	K537(24.39)+K538(12.15)	43.85	Kolon üst kat koşulu
+Y	S607(25.5)+S507(28.86)	54.36	K525(18.62)+K526(12.15)	36.93	Kolon üst kat koşulu
-Y	S607(25.5)+S507(28.86)	54.36	K525(12.15)+K526(18.62)	36.93	Kolon üst kat koşulu
+X	S507(219.53)+S407(247.59)	467.12	K437(12.15)+K438(22.34)	41.39	Nd < 0,10.Ac.fck koşulu
-X	S507(219.53)+S407(247.59)	467.12	K437(24.39)+K438(12.15)	43.85	Nd < 0,10.Ac.fck koşulu
+Y	S507(28.86)+S407(32.76)	61.62	K425(25.96)+K426(12.15)	45.74	Perde zayıf yönü koşulu
-Y	S507(28.86)+S407(32.76)	61.62	K425(12.15)+K426(25.96)	45.74	Perde zayıf yönü koşulu
+X	S407(247.59)+S307(274.36)	521.95	K337(12.15)+K338(22.34)	41.39	Nd < 0,10.Ac.fck koşulu
-X	S407(247.59)+S307(274.36)	521.95	K337(24.39)+K338(12.15)	43.85	Nd < 0,10.Ac.fck koşulu
+Y	S407(32.76)+S307(36.51)	69.27	K325(25.96)+K326(12.15)	45.74	Perde zayıf yönü koşulu
-Y	S407(32.76)+S307(36.51)	69.27	K325(12.15)+K326(25.96)	45.74	Perde zayıf yönü koşulu
+X	S307(274.36)+S207(319.01)	593.37	K237(12.15)+K238(22.34)	41.39	Nd < 0,10.Ac.fck koşulu
-X	S307(274.36)+S207(319.01)	593.37	K237(24.39)+K238(12.15)	43.85	Nd < 0,10.Ac.fck koşulu
+Y	S307(36.51)+S207(42.1)	78.6	K225(25.96)+K226(12.15)	45.74	Perde zayıf yönü koşulu
-Y	S307(36.51)+S207(42.1)	78.6	K225(12.15)+K226(25.96)	45.74	Perde zayıf yönü koşulu
+X	S207(319.01)+S107(325.19)	644.2	K137(12.15)+K138(16.02)	33.8	Bodrum kat
-X	S207(319.01)+S107(325.19)	644.2	K137(16.02)+K138(12.15)	33.8	Bodrum kat
+Y	S207(42.1)+S107(45.34)	87.43	K125(18.15)+K126(12.15)	36.36	Bodrum kat
-Y	S207(42.1)+S107(45.34)	87.43	K125(12.15)+K126(18.15)	36.36	Bodrum kat
+X	S508(25.28)	25.28	K515(12.15)	14.58	Kolon üst kat koşulu
-X	S508(25.28)	25.28	K515(12.15)	14.58	Kolon üst kat koşulu
+Y	S508(196.45)	196.45	K516(16.02)	19.22	Kolon üst kat koşulu
-Y	S508(196.45)	196.45	K516(12.15)	14.58	Kolon üst kat koşulu
+X	S508(25.28)+S408(26.63)	51.9	K415(12.15)	14.58	Perde zayıf yönü koşulu
-X	S508(25.28)+S408(26.63)	51.9	K415(12.15)	14.58	Perde zayıf yönü koşulu
+Y	S508(196.45)+S408(211.99)	408.44	K416(16.02)	19.22	Nd < 0,10.Ac.fck koşulu
-Y	S508(196.45)+S408(211.99)	408.44	K416(12.15)	14.58	Nd < 0,10.Ac.fck koşulu
+X	S408(26.63)+S308(33.05)	59.68	K315(12.15)	14.58	Perde zayıf yönü koşulu
-X	S408(26.63)+S308(33.05)	59.68	K315(12.15)	14.58	Perde zayıf yönü koşulu
+Y	S408(211.99)+S308(249.85)	461.84	K316(16.02)	19.22	Nd < 0,10.Ac.fck koşulu
-Y	S408(211.99)+S308(249.85)	461.84	K316(12.15)	14.58	Nd < 0,10.Ac.fck koşulu
+X	S308(33.05)+S208(37.3)	70.35	K215(12.15)	14.58	Perde zayıf yönü koşulu
-X	S308(33.05)+S208(37.3)	70.35	K215(12.15)	14.58	Perde zayıf yönü koşulu
+Y	S308(249.85)+S208(276.46)	526.31	K216(16.02)	19.22	Nd < 0,10.Ac.fck koşulu
-Y	S308(249.85)+S208(276.46)	526.31	K216(12.15)	14.58	Nd < 0,10.Ac.fck koşulu
+X	S208(37.3)+S108(36.75)	74.05	K115(12.15)	14.58	Panel başlığı
-X	S208(37.3)+S108(36.75)	74.05	K115(65.48)	78.57	Panel başlığı
+Y	S208(276.46)+S108(298.64)	575.09	K116(16.02)	19.22	Panel başlığı
-Y	S208(276.46)+S108(298.64)	575.09	K116(12.15)	14.58	Panel başlığı
+X	S509(28.57)	28.57	K512(18.87)+K515(16.02)+K550(16.02)	56.45	Kolon üst kat koşulu
-X	S509(28.57)	28.57	K512(16.2)+K515(12.15)+K550(16.02)	53.24	Kolon üst kat koşulu
+Y	S509(243)	243	K543(23.48)	28.18	Kolon üst kat koşulu
-Y	S509(243)	243	K543(16.02)	19.22	Kolon üst kat koşulu
+X	S509(28.57)+S409(32.49)	61.06	K412(18.87)+K415(23.94)+K450(16.02)	70.59	Perde zayıf yönü koşulu
-X	S509(28.57)+S409(32.49)	61.06	K412(16.2)+K415(16.02)+K450(23.94)	67.38	Perde zayıf yönü koşulu
+Y	S509(243)+S409(272.66)	515.65	K443(29.5)	35.4	Nd < 0,10.Ac.fck koşulu
-Y	S509(243)+S409(272.66)	515.65	K443(16.02)	19.22	Nd < 0,10.Ac.fck koşulu
+X	S409(32.49)+S309(36.37)	68.86	K312(18.87)+K315(23.94)+K350(16.02)	70.59	Perde zayıf yönü koşulu
-X	S409(32.49)+S309(36.37)	68.86	K312(16.2)+K315(16.02)+K350(23.94)	67.38	Perde zayıf yönü koşulu
+Y	S409(272.66)+S309(318.14)	590.8	K343(29.5)	35.4	Nd < 0,10.Ac.fck koşulu
-Y	S409(272.66)+S309(318.14)	590.8	K343(16.02)	19.22	Nd < 0,10.Ac.fck koşulu
+X	S309(36.37)+S209(42.17)	78.54	K212(18.87)+K215(23.94)+K250(16.02)	70.59	Perde zayıf yönü koşulu
-X	S309(36.37)+S209(42.17)	78.54	K212(16.2)+K215(16.02)+K250(23.94)	67.38	Perde zayıf yönü koşulu
+Y	S309(318.14)+S209(358.34)	676.48	K243(29.5)	35.4	Nd < 0,10.Ac.fck koşulu
-Y	S309(318.14)+S209(358.34)	676.48	K243(16.02)	19.22	Nd < 0,10.Ac.fck koşulu
+X	S209(42.17)+S109(37.78)	79.95	K112(18.87)+K115(130.59)+K150(16.02)	193.94	Panel başlığı
-X	S209(42.17)+S109(37.78)	79.95	K112(16.2)+K115(16.02)+K150(16.02)	57.88	Panel başlığı
+Y	S209(358.34)+S109(313.17)	671.51	K143(23.94)	28.72	Panel başlığı
-Y	S209(358.34)+S109(313.17)	671.51	K143(16.02)	19.22	Panel başlığı
+X	S510(30.39)	30.39	K512(16.2)+K513(18.87)+K550(16.02)	75.89	Kolon üst kat koşulu
-X	S510(30.39)	30.39	K512(18.87)+K513(16.2)+K550(12.15)	75.89	Kolon üst kat koşulu
+Y	S510(254.89)	254.89	K520(25.96)	31.16	Kolon üst kat koşulu
-Y	S510(254.89)	254.89	K520(16.02)	19.22	Kolon üst kat koşulu

GÜÇLÜ KOLON KONTROLU (tm)

Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S510 (30.39)+S410 (36.41)	66.8	K412 (16.2)+K413 (18.87)+K450 (23	90.03	Perde zayıf yönü koşulu
-X	S510 (30.39)+S410 (36.41)	66.8	K412 (18.87)+K413 (16.2)+K450 (16	90.03	Perde zayıf yönü koşulu
+Y	S510 (254.89)+S410 (293.8)	548.68	K420 (35.25)	42.3	Nd < 0,10.Ac.fck koşulu
-Y	S510 (254.89)+S410 (293.8)	548.68	K420 (16.5)	19.79	Nd < 0,10.Ac.fck koşulu
+X	S410 (36.41)+S310 (42.24)	78.65	K312 (16.2)+K313 (18.87)+K350 (23	90.03	Perde zayıf yönü koşulu
-X	S410 (36.41)+S310 (42.24)	78.65	K312 (18.87)+K313 (16.2)+K350 (16	90.03	Perde zayıf yönü koşulu
+Y	S410 (293.8)+S310 (334.95)	628.75	K320 (35.25)	42.3	Nd < 0,10.Ac.fck koşulu
-Y	S410 (293.8)+S310 (334.95)	628.75	K320 (16.5)	19.79	Nd < 0,10.Ac.fck koşulu
+X	S310 (42.24)+S210 (49.63)	91.86	K212 (16.2)+K213 (18.87)+K250 (23	90.03	Perde zayıf yönü koşulu
-X	S310 (42.24)+S210 (49.63)	91.86	K212 (18.87)+K213 (16.2)+K250 (16	90.03	Perde zayıf yönü koşulu
+Y	S310 (334.95)+S210 (395.95)	730.9	K220 (35.25)	42.3	Nd < 0,10.Ac.fck koşulu
-Y	S310 (334.95)+S210 (395.95)	730.9	K220 (16.5)	19.79	Nd < 0,10.Ac.fck koşulu
+X	S210 (49.63)+S110 (40.45)	90.08	K112 (16.2)+K113 (18.87)+K150 (16	75.89	Panel başlığı
-X	S210 (49.63)+S110 (40.45)	90.08	K112 (18.87)+K113 (16.2)+K150 (12	75.89	Panel başlığı
+Y	S210 (395.95)+S110 (327.19)	723.14	K120 (24.39)	29.27	Panel başlığı
-Y	S210 (395.95)+S110 (327.19)	723.14	K120 (16.5)	19.79	Panel başlığı
+X	S511 (29.83)	29.83	K513 (16.2)+K514 (18.87)+K551 (16	75.89	Kolon üst kat koşulu
-X	S511 (29.83)	29.83	K513 (18.87)+K514 (16.2)+K551 (12	75.89	Kolon üst kat koşulu
+Y	S511 (255.11)	255.11	K523 (25.96)	31.16	Kolon üst kat koşulu
-Y	S511 (255.11)	255.11	K523 (16.02)	19.22	Kolon üst kat koşulu
+X	S511 (29.83)+S411 (35.25)	65.08	K413 (16.2)+K414 (18.87)+K451 (23	90.03	Perde zayıf yönü koşulu
-X	S511 (29.83)+S411 (35.25)	65.08	K413 (18.87)+K414 (16.2)+K451 (16	90.03	Perde zayıf yönü koşulu
+Y	S511 (255.11)+S411 (294.55)	549.66	K423 (35.25)	42.3	Nd < 0,10.Ac.fck koşulu
-Y	S511 (255.11)+S411 (294.55)	549.66	K423 (18.62)	22.35	Nd < 0,10.Ac.fck koşulu
+X	S411 (35.25)+S311 (40.49)	75.74	K313 (16.2)+K314 (18.87)+K351 (23	90.03	Perde zayıf yönü koşulu
-X	S411 (35.25)+S311 (40.49)	75.74	K313 (18.87)+K314 (16.2)+K351 (16	90.03	Perde zayıf yönü koşulu
+Y	S411 (294.55)+S311 (336.23)	630.78	K323 (35.25)	42.3	Nd < 0,10.Ac.fck koşulu
-Y	S411 (294.55)+S311 (336.23)	630.78	K323 (18.62)	22.35	Nd < 0,10.Ac.fck koşulu
+X	S311 (40.49)+S211 (50.25)	90.74	K213 (16.2)+K214 (18.87)+K251 (23	90.03	Perde zayıf yönü koşulu
-X	S311 (40.49)+S211 (50.25)	90.74	K213 (18.87)+K214 (16.2)+K251 (16	90.03	Perde zayıf yönü koşulu
+Y	S311 (336.23)+S211 (397.87)	734.1	K223 (35.25)	42.3	Nd < 0,10.Ac.fck koşulu
-Y	S311 (336.23)+S211 (397.87)	734.1	K223 (18.62)	22.35	Nd < 0,10.Ac.fck koşulu
+X	S211 (50.25)+S111 (40.63)	90.88	K113 (16.2)+K114 (18.87)+K151 (23	84.85	Panel başlığı
-X	S211 (50.25)+S111 (40.63)	90.88	K113 (18.87)+K114 (16.2)+K151 (12	84.85	Panel başlığı
+Y	S211 (397.87)+S111 (328.87)	726.74	K123 (24.39)	29.27	Panel başlığı
-Y	S211 (397.87)+S111 (328.87)	726.74	K123 (18.62)	22.35	Panel başlığı
+X	S512 (29.2)	29.2	K511 (18.87)+K514 (16.2)+K552 (12	56.67	Kolon üst kat koşulu
-X	S512 (29.2)	29.2	K511 (16.2)+K514 (18.87)+K552 (12	56.67	Kolon üst kat koşulu
+Y	S512 (243.77)	243.77	K526 (24.39)	29.27	Kolon üst kat koşulu
-Y	S512 (243.77)	243.77	K526 (16.02)	19.22	Kolon üst kat koşulu
+X	S512 (29.2)+S412 (33.91)	63.11	K411 (18.87)+K414 (16.2)+K452 (12	56.67	Perde zayıf yönü koşulu
-X	S512 (29.2)+S412 (33.91)	63.11	K411 (16.2)+K414 (18.87)+K452 (12	56.67	Perde zayıf yönü koşulu
+Y	S512 (243.77)+S412 (273.16)	516.93	K426 (32.94)	39.53	Nd < 0,10.Ac.fck koşulu
-Y	S512 (243.77)+S412 (273.16)	516.93	K426 (16.02)	19.22	Nd < 0,10.Ac.fck koşulu
+X	S412 (33.91)+S312 (38.46)	72.38	K311 (18.87)+K314 (16.2)+K352 (12	56.67	Perde zayıf yönü koşulu
-X	S412 (33.91)+S312 (38.46)	72.38	K311 (16.2)+K314 (18.87)+K352 (12	56.67	Perde zayıf yönü koşulu
+Y	S412 (273.16)+S312 (304.75)	577.91	K326 (32.94)	39.53	Nd < 0,10.Ac.fck koşulu
-Y	S412 (273.16)+S312 (304.75)	577.91	K326 (16.02)	19.22	Nd < 0,10.Ac.fck koşulu
+X	S312 (38.46)+S212 (44.79)	83.25	K211 (18.87)+K214 (16.2)+K252 (12	56.67	Perde zayıf yönü koşulu
-X	S312 (38.46)+S212 (44.79)	83.25	K211 (16.2)+K214 (18.87)+K252 (12	56.67	Perde zayıf yönü koşulu
+Y	S312 (304.75)+S212 (357.28)	662.04	K226 (32.94)	39.53	Nd < 0,10.Ac.fck koşulu
-Y	S312 (304.75)+S212 (357.28)	662.04	K226 (16.02)	19.22	Nd < 0,10.Ac.fck koşulu
+X	S212 (44.79)+S112 (38.98)	83.77	K111 (18.87)+K114 (16.2)+K152 (12	56.67	Panel başlığı
-X	S212 (44.79)+S112 (38.98)	83.77	K111 (16.2)+K114 (18.87)+K152 (12	56.67	Panel başlığı
+Y	S212 (357.28)+S112 (319.02)	676.3	K126 (23.94)	28.72	Panel başlığı
-Y	S212 (357.28)+S112 (319.02)	676.3	K126 (16.02)	19.22	Panel başlığı
+X	S513 (28.11)	28.11	K510 (18.87)+K511 (16.2)	42.09	Kolon üst kat koşulu
-X	S513 (28.11)	28.11	K510 (16.2)+K511 (18.87)	42.09	Kolon üst kat koşulu
+Y	S513 (28.52)	28.52	K533 (22.71)	27.25	Kolon üst kat koşulu
-Y	S513 (28.52)	28.52	K533 (18.87)	22.65	Kolon üst kat koşulu
+X	S513 (28.11)+S413 (32.71)	60.82	K410 (18.87)+K411 (18.39)	44.72	Nd < 0,10.Ac.fck koşulu
-X	S513 (28.11)+S413 (32.71)	60.82	K410 (18.39)+K411 (18.87)	44.72	Nd < 0,10.Ac.fck koşulu
+Y	S513 (28.52)+S413 (33.55)	62.07	K433 (32.22)	38.66	Nd < 0,10.Ac.fck koşulu
-Y	S513 (28.52)+S413 (33.55)	62.07	K433 (18.87)	22.65	Nd < 0,10.Ac.fck koşulu
+X	S413 (32.71)+S313 (36.82)	69.54	K310 (18.87)+K311 (18.39)	44.72	Nd < 0,10.Ac.fck koşulu
-X	S413 (32.71)+S313 (36.82)	69.54	K310 (18.39)+K311 (18.87)	44.72	Nd < 0,10.Ac.fck koşulu
+Y	S413 (33.55)+S313 (37.96)	71.51	K333 (32.22)	38.66	Nd < 0,10.Ac.fck koşulu
-Y	S413 (33.55)+S313 (37.96)	71.51	K333 (18.87)	22.65	Nd < 0,10.Ac.fck koşulu

GÜÇLÜ KOLON KONTROLU (tm)

Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S313 (36.82)+S213 (40.28)	77.11	K210 (18.87)+K211 (18.39)	44.72	✓
-X	S313 (36.82)+S213 (40.28)	77.11	K210 (18.39)+K211 (18.87)	44.72	✓
+Y	S313 (37.96)+S213 (41.32)	79.28	K233 (32.22)	38.66	✓
-Y	S313 (37.96)+S213 (41.32)	79.28	K233 (18.87)	22.65	✓
+X	S213 (40.28)+S113 (31.08)	71.36	K110 (18.87)+K111 (18.39)	44.72	Panel başlığı
-X	S213 (40.28)+S113 (31.08)	71.36	K110 (98.08)+K111 (18.87)	140.35	Panel başlığı
+Y	S213 (41.32)+S113 (31.34)	72.66	K133 (22.23)	26.68	Panel başlığı
-Y	S213 (41.32)+S113 (31.34)	72.66	K133 (18.87)	22.65	Panel başlığı
+X	S514 (29.61)	29.61	K509 (18.87)+K510 (24.36)+K553 (1	74.53	Kolon üst kat koşulu
-X	S514 (29.61)	29.61	K509 (16.2)+K510 (18.87)+K553 (24	71.32	Kolon üst kat koşulu
+Y	S514 (254.45)	254.45	K534 (29.93)	35.92	Kolon üst kat koşulu
-Y	S514 (254.45)	254.45	K534 (16.02)	19.22	Kolon üst kat koşulu
+X	S514 (29.61)+S414 (34.37)	63.98	K409 (18.87)+K410 (35.36)+K453 (1	87.73	Perde zayıf yönü koşulu
-X	S514 (29.61)+S414 (34.37)	63.98	K409 (16.2)+K410 (18.87)+K453 (35	84.52	Perde zayıf yönü koşulu
+Y	S514 (254.45)+S414 (290.39)	544.84	K434 (35.25)	42.3	Nd < 0,10.Ac.fck koşulu
-Y	S514 (254.45)+S414 (290.39)	544.84	K434 (22.34)	26.81	Nd < 0,10.Ac.fck koşulu
+X	S414 (34.37)+S314 (39)	73.37	K309 (18.87)+K310 (24.36)+K353 (1	74.53	Perde zayıf yönü koşulu
-X	S414 (34.37)+S314 (39)	73.37	K309 (16.2)+K310 (18.87)+K353 (24	71.32	Perde zayıf yönü koşulu
+Y	S414 (290.39)+S314 (344.33)	634.72	K334 (35.25)	42.3	Nd < 0,10.Ac.fck koşulu
-Y	S414 (290.39)+S314 (344.33)	634.72	K334 (22.34)	26.81	Nd < 0,10.Ac.fck koşulu
+X	S314 (39)+S214 (45.37)	84.36	K209 (18.87)+K210 (24.36)+K253 (1	74.53	Perde zayıf yönü koşulu
-X	S314 (39)+S214 (45.37)	84.36	K209 (16.2)+K210 (18.87)+K253 (24	71.32	Perde zayıf yönü koşulu
+Y	S314 (344.33)+S214 (387.03)	731.35	K234 (35.25)	42.3	Nd < 0,10.Ac.fck koşulu
-Y	S314 (344.33)+S214 (387.03)	731.35	K234 (22.34)	26.81	Nd < 0,10.Ac.fck koşulu
+X	S214 (45.37)+S114 (40.54)	85.91	K109 (18.87)+K110 (163.01)+K153 (240.91	Panel başlığı
-X	S214 (45.37)+S114 (40.54)	85.91	K109 (16.2)+K110 (18.87)+K153 (20	66.18	Panel başlığı
+Y	S214 (387.03)+S114 (327.66)	714.69	K134 (27.08)	32.49	Panel başlığı
-Y	S214 (387.03)+S114 (327.66)	714.69	K134 (18.62)	22.35	Panel başlığı
+X	S515 (28.74)	28.74	K509 (16.2)+K553 (16.2)	38.88	Kolon üst kat koşulu
-X	S515 (28.74)	28.74	K509 (18.87)+K553 (18.87)	45.3	Kolon üst kat koşulu
+Y	S515 (236.03)	236.03	K508 (21.88)	26.26	Kolon üst kat koşulu
-Y	S515 (236.03)	236.03	K508 (12.15)	14.58	Kolon üst kat koşulu
+X	S515 (28.74)+S415 (32.11)	60.86	K409 (16.2)+K453 (16.2)	38.88	Perde zayıf yönü koşulu
-X	S515 (28.74)+S415 (32.11)	60.86	K409 (18.87)+K453 (18.87)	45.3	Perde zayıf yönü koşulu
+Y	S515 (236.03)+S415 (260.17)	496.2	K408 (18.62)	22.35	Nd < 0,10.Ac.fck koşulu
-Y	S515 (236.03)+S415 (260.17)	496.2	K408 (12.15)	14.58	Nd < 0,10.Ac.fck koşulu
+X	S415 (32.11)+S315 (35.43)	67.54	K309 (16.2)+K353 (16.2)	38.88	Perde zayıf yönü koşulu
-X	S415 (32.11)+S315 (35.43)	67.54	K309 (18.87)+K353 (18.87)	45.3	Perde zayıf yönü koşulu
+Y	S415 (260.17)+S315 (283.92)	544.09	K308 (18.62)	22.35	Nd < 0,10.Ac.fck koşulu
-Y	S415 (260.17)+S315 (283.92)	544.09	K308 (12.15)	14.58	Nd < 0,10.Ac.fck koşulu
+X	S315 (35.43)+S215 (42.98)	78.41	K209 (16.2)+K253 (16.2)	38.88	Perde zayıf yönü koşulu
-X	S315 (35.43)+S215 (42.98)	78.41	K209 (18.87)+K253 (18.87)	45.3	Perde zayıf yönü koşulu
+Y	S315 (283.92)+S215 (341.98)	625.9	K208 (18.62)	22.35	Nd < 0,10.Ac.fck koşulu
-Y	S315 (283.92)+S215 (341.98)	625.9	K208 (12.15)	14.58	Nd < 0,10.Ac.fck koşulu
+X	S215 (42.98)+S115 (42.13)	85.11	K109 (16.2)+K153 (16.2)	38.88	Panel başlığı
-X	S215 (42.98)+S115 (42.13)	85.11	K109 (18.87)+K153 (18.87)	45.3	Panel başlığı
+Y	S215 (341.98)+S115 (375.65)	717.63	K108 (18.62)	22.35	Panel başlığı
-Y	S215 (341.98)+S115 (375.65)	717.63	K108 (12.15)	14.58	Panel başlığı
+X	S516 (28.85)	28.85	K529 (20.08)	24.1	Kolon üst kat koşulu
-X	S516 (28.85)	28.85	K529 (18.87)	22.65	Kolon üst kat koşulu
+Y	S516 (28.66)	28.66	K506 (16.2)+K507 (18.87)	42.09	Kolon üst kat koşulu
-Y	S516 (28.66)	28.66	K506 (18.87)+K507 (16.2)	42.09	Kolon üst kat koşulu
+X	S516 (28.85)+S416 (32.66)	61.52	K429 (28.56)	34.27	Nd < 0,10.Ac.fck koşulu
-X	S516 (28.85)+S416 (32.66)	61.52	K429 (18.87)	22.65	Nd < 0,10.Ac.fck koşulu
+Y	S516 (28.66)+S416 (32.28)	60.95	K406 (20.08)+K407 (18.87)	46.74	Nd < 0,10.Ac.fck koşulu
-Y	S516 (28.66)+S416 (32.28)	60.95	K406 (18.87)+K407 (22.71)	49.9	Nd < 0,10.Ac.fck koşulu
+X	S416 (32.66)+S316 (36.17)	68.84	K329 (28.56)	34.27	Nd < 0,10.Ac.fck koşulu
-X	S416 (32.66)+S316 (36.17)	68.84	K329 (18.87)	22.65	Nd < 0,10.Ac.fck koşulu
+Y	S416 (32.28)+S316 (35.61)	67.89	K306 (20.08)+K307 (18.87)	46.74	Nd < 0,10.Ac.fck koşulu
-Y	S416 (32.28)+S316 (35.61)	67.89	K306 (18.87)+K307 (22.71)	49.9	Nd < 0,10.Ac.fck koşulu
+X	S316 (36.17)+S216 (39.12)	75.29	K229 (28.56)	34.27	Nd < 0,10.Ac.fck koşulu
-X	S316 (36.17)+S216 (39.12)	75.29	K229 (18.87)	22.65	Nd < 0,10.Ac.fck koşulu
+Y	S316 (35.61)+S216 (38.42)	74.03	K206 (20.08)+K207 (18.87)	46.74	✓
-Y	S316 (35.61)+S216 (38.42)	74.03	K206 (18.87)+K207 (22.71)	49.9	✓
+X	S216 (39.12)+S116 (31.11)	70.23	K129 (20.08)	24.1	Panel başlığı
-X	S216 (39.12)+S116 (31.11)	70.23	K129 (18.87)	22.65	Panel başlığı
+Y	S216 (38.42)+S116 (35.31)	73.73	K106 (20.08)+K107 (18.87)	46.74	Panel başlığı
-Y	S216 (38.42)+S116 (35.31)	73.73	K106 (18.87)+K107 (22.71)	49.9	Panel başlığı



GÜÇLÜ KOLON KONTROLU (tm)

Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S517(30.13)	30.13	K535(24.83)	29.8	Kolon üst kat koşulu
-X	S517(30.13)	30.13	K535(16.2)	19.44	Kolon üst kat koşulu
+Y	S517(29.14)	29.14	K507(20.08)+K508(12.15)	38.68	Kolon üst kat koşulu
-Y	S517(29.14)	29.14	K507(18.87)+K508(19.8)	46.4	Kolon üst kat koşulu
+X	S517(30.13)+S417(35.42)	65.55	K435(36.25)	43.5	Nd < 0,10.Ac.fck koşulu
-X	S517(30.13)+S417(35.42)	65.55	K435(18.87)	22.65	Nd < 0,10.Ac.fck koşulu
+Y	S517(29.14)+S417(33.66)	62.81	K407(22.71)+K408(12.15)	41.83	Nd < 0,10.Ac.fck koşulu
-Y	S517(29.14)+S417(33.66)	62.81	K407(18.87)+K408(22.34)	49.46	Nd < 0,10.Ac.fck koşulu
+X	S417(35.42)+S317(39.92)	75.34	K335(36.25)	43.5	Nd < 0,10.Ac.fck koşulu
-X	S417(35.42)+S317(39.92)	75.34	K335(18.87)	22.65	Nd < 0,10.Ac.fck koşulu
+Y	S417(33.66)+S317(37.69)	71.36	K307(22.71)+K308(12.15)	41.83	Nd < 0,10.Ac.fck koşulu
-Y	S417(33.66)+S317(37.69)	71.36	K307(18.87)+K308(22.34)	49.46	Nd < 0,10.Ac.fck koşulu
+X	S317(39.92)+S217(42.88)	82.81	K235(36.25)	43.5	✓
-X	S317(39.92)+S217(42.88)	82.81	K235(18.87)	22.65	✓
+Y	S317(37.69)+S217(40.83)	78.53	K207(22.71)+K208(12.15)	41.83	✓
-Y	S317(37.69)+S217(40.83)	78.53	K207(18.87)+K208(22.34)	49.46	✓
+X	S217(42.88)+S117(31.03)	73.91	K135(28.1)	33.72	Panel başlığı
-X	S217(42.88)+S117(31.03)	73.91	K135(16.2)	19.44	Panel başlığı
+Y	S217(40.83)+S117(30.98)	71.81	K107(22.71)+K108(12.15)	41.83	Panel başlığı
-Y	S217(40.83)+S117(30.98)	71.81	K107(18.87)+K108(22.34)	49.46	Panel başlığı
+X	S618(26.53)	26.53	K636(16.2)	19.44	Kolon üst kat koşulu
-X	S618(26.53)	26.53	K636(18.87)	22.65	Kolon üst kat koşulu
+Y	S618(26.71)	26.71	K648(12.15)	14.58	Kolon üst kat koşulu
-Y	S618(26.71)	26.71	K648(16.02)	19.22	Kolon üst kat koşulu
+X	S618(26.53)+S518(32.62)	59.15	K535(16.2)+K536(24.83)	49.24	Kolon üst kat koşulu
-X	S618(26.53)+S518(32.62)	59.15	K535(24.83)+K536(18.87)	52.45	Kolon üst kat koşulu
+Y	S618(26.71)+S518(33.19)	59.9	K534(12.15)+K548(22.34)	41.39	Kolon üst kat koşulu
-Y	S618(26.71)+S518(33.19)	59.9	K534(22.34)+K548(12.15)	41.39	Kolon üst kat koşulu
+X	S518(32.62)+S418(38.66)	71.28	K435(18.87)+K436(36.25)	66.15	✓
-X	S518(32.62)+S418(38.66)	71.28	K435(36.25)+K436(18.87)	66.15	✓
+Y	S518(33.19)+S418(39.29)	72.48	K434(22.34)+K448(24.39)	56.07	✓
-Y	S518(33.19)+S418(39.29)	72.48	K434(24.39)+K448(16.02)	48.49	✓
+X	S418(38.66)+S318(42.86)	81.52	K335(18.87)+K336(36.25)	66.15	✓
-X	S418(38.66)+S318(42.86)	81.52	K335(36.25)+K336(18.87)	66.15	✓
+Y	S418(39.29)+S318(43.39)	82.68	K334(22.34)+K348(24.39)	56.07	✓
-Y	S418(39.29)+S318(43.39)	82.68	K334(24.39)+K348(16.02)	48.49	✓
+X	S318(42.86)+S218(45.75)	88.61	K235(18.87)+K236(36.25)	66.15	✓
-X	S318(42.86)+S218(45.75)	88.61	K235(36.25)+K236(18.87)	66.15	✓
+Y	S318(43.39)+S218(46.04)	89.43	K234(22.34)+K248(24.39)	56.07	✓
-Y	S318(43.39)+S218(46.04)	89.43	K234(24.39)+K248(16.02)	48.49	✓
+X	S218(45.75)+S118(46.98)	92.73	K135(16.2)+K136(28.1)	53.16	Bodrum kat
-X	S218(45.75)+S118(46.98)	92.73	K135(28.1)+K136(18.87)	56.37	Bodrum kat
+Y	S218(46.04)+S118(47.11)	93.15	K134(18.62)+K148(19.8)	46.1	Bodrum kat
-Y	S218(46.04)+S118(47.11)	93.15	K134(19.8)+K148(12.15)	38.33	Bodrum kat
+X	S619(27.03)	27.03	K636(18.87)+K637(16.02)	41.87	Kolon üst kat koşulu
-X	S619(27.03)	27.03	K636(16.2)+K637(12.15)	34.02	Kolon üst kat koşulu
+Y	S619(27.4)	27.4	K632(12.15)	14.58	Kolon üst kat koşulu
-Y	S619(27.4)	27.4	K632(12.15)	14.58	Kolon üst kat koşulu
+X	S619(27.03)+S519(32.4)	59.43	K536(18.87)+K537(27.96)	56.2	Kolon üst kat koşulu
-X	S619(27.03)+S519(32.4)	59.43	K536(28.56)+K537(12.15)	48.85	Kolon üst kat koşulu
+Y	S619(27.4)+S519(32.56)	59.96	K532(22.34)+K533(18.87)	49.46	Kolon üst kat koşulu
-Y	S619(27.4)+S519(32.56)	59.96	K532(12.15)+K533(22.71)	41.83	Kolon üst kat koşulu
+X	S519(32.4)+S419(37.49)	69.9	K436(18.87)+K437(27.96)	56.2	Nd < 0,10.Ac.fck koşulu
-X	S519(32.4)+S419(37.49)	69.9	K436(28.56)+K437(12.15)	48.85	Nd < 0,10.Ac.fck koşulu
+Y	S519(32.56)+S419(37.33)	69.88	K432(27.96)+K433(18.87)	56.2	Nd < 0,10.Ac.fck koşulu
-Y	S519(32.56)+S419(37.33)	69.88	K432(12.15)+K433(28.56)	48.85	Nd < 0,10.Ac.fck koşulu
+X	S419(37.49)+S319(41.42)	78.91	K336(18.87)+K337(27.96)	56.2	✓
-X	S419(37.49)+S319(41.42)	78.91	K336(28.56)+K337(12.15)	48.85	✓
+Y	S419(37.33)+S319(41.09)	78.41	K332(27.96)+K333(18.87)	56.2	✓
-Y	S419(37.33)+S319(41.09)	78.41	K332(12.15)+K333(28.56)	48.85	✓
+X	S319(41.42)+S219(44.15)	85.57	K236(18.87)+K237(27.96)	56.2	✓
-X	S319(41.42)+S219(44.15)	85.57	K236(28.56)+K237(12.15)	48.85	✓
+Y	S319(41.09)+S219(43.71)	84.79	K232(27.96)+K233(18.87)	56.2	✓
-Y	S319(41.09)+S219(43.71)	84.79	K232(12.15)+K233(28.56)	48.85	✓
+X	S219(44.15)+S119(46.03)	90.18	K136(18.87)+K137(19.8)	46.4	Bodrum kat
-X	S219(44.15)+S119(46.03)	90.18	K136(20.08)+K137(12.15)	38.68	Bodrum kat
+Y	S219(43.71)+S119(45.75)	89.45	K132(19.8)+K133(18.87)	46.4	Bodrum kat
-Y	S219(43.71)+S119(45.75)	89.45	K132(12.15)+K133(20.08)	38.68	Bodrum kat

GÜÇLÜ KOLON KONTROLU (tm)

Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S620 (27.04)	27.04	K604 (18.87)	22.65	Kolon üst kat koşulu
-X	S620 (27.04)	27.04	K604 (16.2)	19.44	Kolon üst kat koşulu
+Y	S620 (25.38)	25.38	K624 (18.87)	22.65	Kolon üst kat koşulu
-Y	S620 (25.38)	25.38	K624 (16.2)	19.44	Kolon üst kat koşulu
+X	S620 (27.04)+S520 (31.47)	58.51	K503 (16.2)+K504 (18.87)	42.09	Kolon üst kat koşulu
-X	S620 (27.04)+S520 (31.47)	58.51	K503 (18.87)+K504 (16.2)	42.09	Kolon üst kat koşulu
+Y	S620 (25.38)+S520 (28.31)	53.68	K524 (18.87)	22.65	Kolon üst kat koşulu
-Y	S620 (25.38)+S520 (28.31)	53.68	K524 (22.71)	27.25	Kolon üst kat koşulu
+X	S520 (31.47)+S420 (35.81)	67.28	K403 (18.39)+K404 (18.87)	44.72	Nd < 0,10.Ac.fck koşulu
-X	S520 (31.47)+S420 (35.81)	67.28	K403 (18.87)+K404 (18.39)	44.72	Nd < 0,10.Ac.fck koşulu
+Y	S520 (28.31)+S420 (31.4)	59.71	K424 (18.87)	22.65	Nd < 0,10.Ac.fck koşulu
-Y	S520 (28.31)+S420 (31.4)	59.71	K424 (22.71)	27.25	Nd < 0,10.Ac.fck koşulu
+X	S420 (35.81)+S320 (39.5)	75.31	K303 (18.39)+K304 (18.87)	44.72	Nd < 0,10.Ac.fck koşulu
-X	S420 (35.81)+S320 (39.5)	75.31	K303 (18.87)+K304 (18.39)	44.72	Nd < 0,10.Ac.fck koşulu
+Y	S420 (31.4)+S320 (34.24)	65.65	K324 (18.87)	22.65	Nd < 0,10.Ac.fck koşulu
-Y	S420 (31.4)+S320 (34.24)	65.65	K324 (22.71)	27.25	Nd < 0,10.Ac.fck koşulu
+X	S320 (39.5)+S220 (42.11)	81.61	K203 (18.39)+K204 (18.87)	44.72	✓
-X	S320 (39.5)+S220 (42.11)	81.61	K203 (18.87)+K204 (18.39)	44.72	✓
+Y	S320 (34.24)+S220 (36.91)	71.15	K224 (18.87)	22.65	✓
-Y	S320 (34.24)+S220 (36.91)	71.15	K224 (22.71)	27.25	✓
+X	S220 (42.11)+S120 (44.09)	86.19	K103 (16.02)+K104 (12.15)	33.8	Bodrum kat
-X	S220 (42.11)+S120 (44.09)	86.19	K103 (12.15)+K104 (16.02)	33.8	Bodrum kat
+Y	S220 (36.91)+S120 (44)	80.9	K124 (18.87)	22.65	Bodrum kat
-Y	S220 (36.91)+S120 (44)	80.9	K124 (16.2)	19.44	Bodrum kat
+X	S521 (30.67)	30.67	K502 (16.2)+K503 (18.87)	42.09	Kolon üst kat koşulu
-X	S521 (30.67)	30.67	K502 (18.87)+K503 (16.2)	42.09	Kolon üst kat koşulu
+Y	S521 (29.74)	29.74	K521 (30.62)	36.75	Kolon üst kat koşulu
-Y	S521 (29.74)	29.74	K521 (31.31)	37.57	Kolon üst kat koşulu
+X	S521 (30.67)+S421 (37.38)	68.05	K402 (18.39)+K403 (18.87)	44.72	Nd < 0,10.Ac.fck koşulu
-X	S521 (30.67)+S421 (37.38)	68.05	K402 (18.87)+K403 (18.39)	44.72	Nd < 0,10.Ac.fck koşulu
+Y	S521 (29.74)+S421 (35.47)	65.21	K421 (30.62)	36.75	Nd < 0,10.Ac.fck koşulu
-Y	S521 (29.74)+S421 (35.47)	65.21	K421 (47)	56.4	Nd < 0,10.Ac.fck koşulu
+X	S421 (37.38)+S321 (42.22)	79.6	K302 (18.39)+K303 (18.87)	44.72	✓
-X	S421 (37.38)+S321 (42.22)	79.6	K302 (18.87)+K303 (18.39)	44.72	✓
+Y	S421 (35.47)+S321 (40.32)	75.8	K321 (30.62)	36.75	✓
-Y	S421 (35.47)+S321 (40.32)	75.8	K321 (47)	56.4	✓
+X	S321 (42.22)+S221 (45.47)	87.7	K202 (18.39)+K203 (18.87)	44.72	✓
-X	S321 (42.22)+S221 (45.47)	87.7	K202 (18.87)+K203 (18.39)	44.72	✓
+Y	S321 (40.32)+S221 (43.43)	83.75	K221 (30.62)	36.75	✓
-Y	S321 (40.32)+S221 (43.43)	83.75	K221 (47)	56.4	✓
+X	S221 (45.47)+S121 (46.86)	92.34	K102 (16.02)+K103 (12.15)	33.8	Bodrum kat
-X	S221 (45.47)+S121 (46.86)	92.34	K102 (12.15)+K103 (16.02)	33.8	Bodrum kat
+Y	S221 (43.43)+S121 (45.97)	89.4	K121 (30.62)	36.75	Bodrum kat
-Y	S221 (43.43)+S121 (45.97)	89.4	K121 (38.45)	46.14	Bodrum kat
+X	S522 (29.95)	29.95	K501 (16.2)+K502 (18.87)	42.09	Kolon üst kat koşulu
-X	S522 (29.95)	29.95	K501 (18.87)+K502 (16.2)	42.09	Kolon üst kat koşulu
+Y	S522 (29.62)	29.62	K518 (30.62)	36.75	Kolon üst kat koşulu
-Y	S522 (29.62)	29.62	K518 (33.8)	40.55	Kolon üst kat koşulu
+X	S522 (29.95)+S422 (35.83)	65.78	K401 (18.39)+K402 (18.87)	44.72	Nd < 0,10.Ac.fck koşulu
-X	S522 (29.95)+S422 (35.83)	65.78	K401 (18.87)+K402 (18.39)	44.72	Nd < 0,10.Ac.fck koşulu
+Y	S522 (29.62)+S422 (35.29)	64.92	K418 (30.62)	36.75	Nd < 0,10.Ac.fck koşulu
-Y	S522 (29.62)+S422 (35.29)	64.92	K418 (47)	56.4	Nd < 0,10.Ac.fck koşulu
+X	S422 (35.83)+S322 (40.64)	76.47	K301 (18.39)+K302 (18.87)	44.72	✓
-X	S422 (35.83)+S322 (40.64)	76.47	K301 (18.87)+K302 (18.39)	44.72	✓
+Y	S422 (35.29)+S322 (40.12)	75.42	K318 (30.62)	36.75	✓
-Y	S422 (35.29)+S322 (40.12)	75.42	K318 (47)	56.4	✓
+X	S322 (40.64)+S222 (45.35)	85.99	K201 (18.39)+K202 (18.87)	44.72	✓
-X	S322 (40.64)+S222 (45.35)	85.99	K201 (18.87)+K202 (18.39)	44.72	✓
+Y	S322 (40.12)+S222 (43.26)	83.39	K218 (30.62)	36.75	✓
-Y	S322 (40.12)+S222 (43.26)	83.39	K218 (47)	56.4	✓
+X	S222 (45.35)+S122 (46.82)	92.17	K101 (16.02)+K102 (12.15)	33.8	Bodrum kat
-X	S222 (45.35)+S122 (46.82)	92.17	K101 (12.15)+K102 (16.02)	33.8	Bodrum kat
+Y	S222 (43.26)+S122 (45.96)	89.22	K118 (30.62)	36.75	Bodrum kat
-Y	S222 (43.26)+S122 (45.96)	89.22	K118 (38.45)	46.14	Bodrum kat
+X	S523 (30.5)	30.5	K539 (12.15)+K540 (22.71)	41.83	Kolon üst kat koşulu
-X	S523 (30.5)	30.5	K539 (22.34)+K540 (18.87)	49.46	Kolon üst kat koşulu
+Y	S523 (29.69)	29.69	K519 (18.87)+K520 (12.15)	37.23	Kolon üst kat koşulu
-Y	S523 (29.69)	29.69	K519 (18.87)+K520 (18.62)	45	Kolon üst kat koşulu

GÜÇLÜ KOLON KONTROLU (tm)

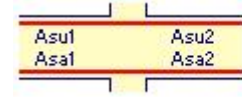
Yön	Kolon	Mrc	Kiriş	Mrb	AÇIKLAMA
+X	S523 (30.5)+S423 (36.83)	67.34	K439 (12.15)+K440 (24.83)	44.38	Nd < 0,10.Ac.fck koşulu
-X	S523 (30.5)+S423 (36.83)	67.34	K439 (24.39)+K440 (18.87)	51.92	Nd < 0,10.Ac.fck koşulu
+Y	S523 (29.69)+S423 (35.43)	65.12	K419 (30.62)+K420 (16.5)	56.54	Nd < 0,10.Ac.fck koşulu
-Y	S523 (29.69)+S423 (35.43)	65.12	K419 (22.71)+K420 (29.93)	63.17	Nd < 0,10.Ac.fck koşulu
+X	S423 (36.83)+S323 (41.6)	78.43	K339 (12.15)+K340 (26.47)	46.35	✓
-X	S423 (36.83)+S323 (41.6)	78.43	K339 (25.96)+K340 (18.87)	53.8	✓
+Y	S423 (35.43)+S323 (40.23)	75.66	K319 (30.62)+K320 (16.5)	56.54	✓
-Y	S423 (35.43)+S323 (40.23)	75.66	K319 (22.71)+K320 (29.93)	63.17	✓
+X	S323 (41.6)+S223 (44.78)	86.38	K239 (12.15)+K240 (24.83)	44.38	✓
-X	S323 (41.6)+S223 (44.78)	86.38	K239 (24.39)+K240 (18.87)	51.92	✓
+Y	S323 (40.23)+S223 (43.29)	83.52	K219 (30.62)+K220 (16.5)	56.54	✓
-Y	S323 (40.23)+S223 (43.29)	83.52	K219 (22.71)+K220 (29.93)	63.17	✓
+X	S223 (44.78)+S123 (46.51)	91.29	K139 (12.15)+K140 (18.39)	36.65	Bodrum kat
-X	S223 (44.78)+S123 (46.51)	91.29	K139 (18.15)+K140 (18.87)	44.43	Bodrum kat
+Y	S223 (43.29)+S123 (45.62)	88.91	K119 (18.87)+K120 (12.64)	37.82	Bodrum kat
-Y	S223 (43.29)+S123 (45.62)	88.91	K119 (18.87)+K120 (18.62)	45	Bodrum kat
+X	S524 (29.18)	29.18	K540 (18.87)+K541 (16.2)	42.09	Kolon üst kat koşulu
-X	S524 (29.18)	29.18	K540 (18.87)+K541 (18.87)	45.3	Kolon üst kat koşulu
+Y	S524 (29.05)	29.05	K542 (16.02)+K543 (12.15)	33.8	Kolon üst kat koşulu
-Y	S524 (29.05)	29.05	K542 (12.15)+K543 (16.02)	33.8	Kolon üst kat koşulu
+X	S524 (29.18)+S424 (34.23)	63.41	K440 (18.87)+K441 (24.83)	52.45	Nd < 0,10.Ac.fck koşulu
-X	S524 (29.18)+S424 (34.23)	63.41	K440 (24.83)+K441 (18.87)	52.45	Nd < 0,10.Ac.fck koşulu
+Y	S524 (29.05)+S424 (33.8)	62.85	K442 (23.94)+K443 (16.02)	47.94	Nd < 0,10.Ac.fck koşulu
-Y	S524 (29.05)+S424 (33.8)	62.85	K442 (16.02)+K443 (23.94)	47.94	Nd < 0,10.Ac.fck koşulu
+X	S424 (34.23)+S324 (38.76)	72.98	K340 (18.87)+K341 (24.83)	52.45	✓
-X	S424 (34.23)+S324 (38.76)	72.98	K340 (24.83)+K341 (18.87)	52.45	✓
+Y	S424 (33.8)+S324 (38.12)	71.92	K342 (23.94)+K343 (16.02)	47.94	Nd < 0,10.Ac.fck koşulu
-Y	S424 (33.8)+S324 (38.12)	71.92	K342 (16.02)+K343 (23.94)	47.94	Nd < 0,10.Ac.fck koşulu
+X	S324 (38.76)+S224 (42.01)	80.77	K240 (18.87)+K241 (24.83)	52.45	✓
-X	S324 (38.76)+S224 (42.01)	80.77	K240 (24.83)+K241 (18.87)	52.45	✓
+Y	S324 (38.12)+S224 (41.37)	79.49	K242 (23.94)+K243 (16.02)	47.94	✓
-Y	S324 (38.12)+S224 (41.37)	79.49	K242 (16.02)+K243 (23.94)	47.94	✓
+X	S224 (42.01)+S124 (44.46)	86.47	K140 (18.87)+K141 (18.39)	44.72	Bodrum kat
-X	S224 (42.01)+S124 (44.46)	86.47	K140 (18.39)+K141 (18.87)	44.72	Bodrum kat
+Y	S224 (41.37)+S124 (43.81)	85.18	K142 (18.15)+K143 (12.15)	36.36	Bodrum kat
-Y	S224 (41.37)+S124 (43.81)	85.18	K142 (12.15)+K143 (18.15)	36.36	Bodrum kat
+X	S525 (26.1)	26.1	K541 (18.87)	22.65	Kolon üst kat koşulu
-X	S525 (26.1)	26.1	K541 (16.2)	19.44	Kolon üst kat koşulu
+Y	S525 (26.87)	26.87	K516 (12.15)+K517 (12.15)	29.16	Kolon üst kat koşulu
-Y	S525 (26.87)	26.87	K516 (12.15)+K517 (12.15)	29.16	Kolon üst kat koşulu
+X	S525 (26.1)+S425 (28.18)	54.28	K441 (18.87)	22.65	Nd < 0,10.Ac.fck koşulu
-X	S525 (26.1)+S425 (28.18)	54.28	K441 (22.71)	27.25	Nd < 0,10.Ac.fck koşulu
+Y	S525 (26.87)+S425 (30.03)	56.9	K416 (12.15)+K417 (16.02)	33.8	Nd < 0,10.Ac.fck koşulu
-Y	S525 (26.87)+S425 (30.03)	56.9	K416 (16.02)+K417 (12.15)	33.8	Nd < 0,10.Ac.fck koşulu
+X	S425 (28.18)+S325 (30.15)	58.33	K341 (18.87)	22.65	Nd < 0,10.Ac.fck koşulu
-X	S425 (28.18)+S325 (30.15)	58.33	K341 (22.71)	27.25	Nd < 0,10.Ac.fck koşulu
+Y	S425 (30.03)+S325 (32.68)	62.71	K316 (12.15)+K317 (16.02)	33.8	Nd < 0,10.Ac.fck koşulu
-Y	S425 (30.03)+S325 (32.68)	62.71	K316 (16.02)+K317 (12.15)	33.8	Nd < 0,10.Ac.fck koşulu
+X	S325 (30.15)+S225 (39.2)	69.35	K241 (18.87)	22.65	Nd < 0,10.Ac.fck koşulu
-X	S325 (30.15)+S225 (39.2)	69.35	K241 (22.71)	27.25	Nd < 0,10.Ac.fck koşulu
+Y	S325 (32.68)+S225 (35.05)	67.73	K216 (12.15)+K217 (16.02)	33.8	Nd < 0,10.Ac.fck koşulu
-Y	S325 (32.68)+S225 (35.05)	67.73	K216 (16.02)+K217 (12.15)	33.8	Nd < 0,10.Ac.fck koşulu
+X	S225 (39.2)+S125 (29.15)	68.34	K141 (18.87)	22.65	Panel başlığı
-X	S225 (39.2)+S125 (29.15)	68.34	K141 (16.2)	19.44	Panel başlığı
+Y	S225 (35.05)+S125 (31.7)	66.75	K116 (12.15)+K117 (16.02)	33.8	Panel başlığı
-Y	S225 (35.05)+S125 (31.7)	66.75	K116 (16.02)+K117 (12.15)	33.8	Panel başlığı

KUŞATILMIŞ KOLON KONTROLU

TBDY 2018'e göre yapılmıştır.

 $V_e = 1.25 \cdot f_{yk} (A_{s1} + A_{s2}) - V_{kol} < V_{max} = (1.7 \div 1.0) \cdot b_j \cdot h_c \cdot \sqrt{f_{ck}}$

Konsol kirişler, kuşatılmış kolon kontrolunda dikkate alınmamıştır.


 $A_{st} > A_{s1} + A_{s2}$

Bodrum katlar; normal sünek kat olup, kuşatılmış kolon kontrolu yeterliliği aranmaz.

Perdelerde kuşatılmış kolon kontrolu yapılmaz. Sadece kolonlarda yapılır.

Kolon		Bx/By	bw1	bw2	bj	Asu1	Asa1	Asu2	Asa2	Ast	Vkol	Ve	Vmax	AÇIKLAMA
S513	x	50	30.2	19.9	50.0	8.0	9.4	8.0	9.4	17.5	0.0	91.7 <	147.9	V=1.0·bj·hc·√fck
S513	y	50	20.0	30.0	50.0	11.4	9.4	0.0	0.0	11.4	0.0	60.0 <	147.9	✓
S413	x	50	30.2	19.9	50.0	9.2	9.4	9.2	9.4	18.6	3.5	94.1 <	147.9	V=1.0·bj·hc·√fck
S413	y	50	20.0	30.0	50.0	16.6	9.4	0.0	0.0	16.6	1.7	85.4 <	147.9	✓
S313	x	50	30.2	19.9	50.0	9.2	9.4	9.2	9.4	18.6	3.2	94.4 <	147.9	V=1.0·bj·hc·√fck
S313	y	50	20.0	30.0	50.0	16.6	9.4	0.0	0.0	16.6	1.7	85.4 <	147.9	✓
S213	x	50	30.2	19.9	50.0	9.2	9.4	9.2	9.4	18.6	3.2	94.4 <	147.9	V=1.0·bj·hc·√fck
S213	y	50	20.0	30.0	50.0	16.6	9.4	0.0	0.0	16.6	1.2	85.9 <	147.9	✓
S516	x	50	30.1	19.9	50.0	10.1	9.4	0.0	0.0	10.1	0.0	52.8 <	147.9	V=1.0·bj·hc·√fck
S516	y	50	30.0	20.0	50.0	8.0	9.4	8.0	9.4	17.5	0.0	91.7 <	147.9	✓
S416	x	50	30.1	19.9	50.0	14.6	9.4	0.0	0.0	14.6	1.7	74.8 <	147.9	V=1.0·bj·hc·√fck
S416	y	50	30.0	20.0	50.0	10.1	9.4	10.1	9.4	19.5	3.5	98.7 <	147.9	✓
S316	x	50	30.1	19.9	50.0	14.6	9.4	0.0	0.0	14.6	1.7	74.8 <	147.9	V=1.0·bj·hc·√fck
S316	y	50	30.0	20.0	50.0	10.1	9.4	10.1	9.4	19.5	3.1	99.2 <	147.9	✓
S216	x	50	30.1	19.9	50.0	14.6	9.4	0.0	0.0	14.6	1.4	75.2 <	147.9	V=1.0·bj·hc·√fck
S216	y	50	30.0	20.0	50.0	10.1	9.4	10.1	9.4	19.5	3.1	99.2 <	147.9	✓
S517	x	50	20.0	30.0	50.0	12.6	8.0	0.0	0.0	12.6	0.0	66.0 <	147.9	V=1.0·bj·hc·√fck
S517	y	50	35.0	15.0	50.0	10.1	9.4	10.1	6.0	19.5	0.0	102.3 <	147.9	✓
S417	x	50	20.0	30.0	50.0	18.9	9.4	0.0	0.0	18.9	1.8	97.2 <	147.9	V=1.0·bj·hc·√fck
S417	y	50	35.0	15.0	50.0	11.4	9.4	11.4	6.0	20.9	2.9	106.7 <	147.9	✓
S317	x	50	20.0	30.0	50.0	18.9	9.4	0.0	0.0	18.9	1.8	97.2 <	147.9	V=1.0·bj·hc·√fck
S317	y	50	35.0	15.0	50.0	11.4	9.4	11.4	6.0	20.9	2.5	107.0 <	147.9	✓
S217	x	50	20.0	30.0	50.0	18.9	9.4	0.0	0.0	18.9	1.5	97.4 <	147.9	V=1.0·bj·hc·√fck
S217	y	50	35.0	15.0	50.0	11.4	9.4	11.4	6.0	20.9	2.5	107.0 <	147.9	✓
S618	x	50	20.0	30.0	50.0	8.0	9.4	0.0	0.0	9.4	0.0	49.5 <	147.9	V=1.0·bj·hc·√fck
S618	y	50	35.0	15.0	50.0	6.0	6.0	0.0	0.0	8.0	0.0	42.2 <	147.9	✓
S518	x	50	20.0	30.0	50.0	12.6	9.4	12.6	8.0	22.0	2.2	113.3 <	147.9	V=1.0·bj·hc·√fck
S518	y	50	35.0	15.0	50.0	11.4	6.0	11.4	6.0	17.5	3.0	88.7 <	147.9	✓
S418	x	50	20.0	30.0	50.0	18.9	9.4	18.9	9.4	28.3	3.5	145.0 <	147.9	V=1.0·bj·hc·√fck
S418	y	50	35.0	15.0	50.0	12.6	8.0	12.6	11.4	24.0	3.6	122.4 <	147.9	✓
S318	x	50	20.0	30.0	50.0	18.9	9.4	18.9	9.4	28.3	3.2	145.3 <	147.9	V=1.0·bj·hc·√fck
S318	y	50	35.0	15.0	50.0	12.6	8.0	12.6	11.4	24.0	3.2	122.8 <	147.9	✓
S218	x	50	20.0	30.0	50.0	18.9	9.4	18.9	9.4	28.3	2.6	145.9 <	147.9	V=1.0·bj·hc·√fck
S218	y	50	35.0	15.0	50.0	12.6	8.0	12.6	11.4	24.0	2.4	123.6 <	147.9	✓
S118												Bodrum kat		
S619	x	50	15.0	35.0	50.0	8.0	6.0	8.0	9.4	17.5	0.0	91.7 <	147.9	V=1.0·bj·hc·√fck
S619	y	50	15.0	35.0	50.0	6.0	6.0	0.0	0.0	6.0	0.0	31.7 <	147.9	✓
S519	x	50	15.0	35.0	50.0	14.6	6.0	14.6	9.4	24.0	3.3	122.7 <	147.9	V=1.0·bj·hc·√fck
S519	y	50	30.0	20.0	50.0	11.4	6.0	11.4	9.4	20.9	3.2	106.4 <	147.9	✓
S419	x	50	15.0	35.0	50.0	14.6	6.0	14.6	9.4	24.0	3.7	122.3 <	147.9	V=1.0·bj·hc·√fck
S419	y	50	30.0	20.0	50.0	14.6	6.0	14.6	9.4	24.0	3.7	122.3 <	147.9	✓
S319	x	50	15.0	35.0	50.0	14.6	6.0	14.6	9.4	24.0	3.5	122.5 <	147.9	V=1.0·bj·hc·√fck
S319	y	50	30.0	20.0	50.0	14.6	6.0	14.6	9.4	24.0	3.3	122.7 <	147.9	✓
S219	x	50	15.0	35.0	50.0	14.6	6.0	14.6	9.4	24.0	2.9	123.1 <	147.9	V=1.0·bj·hc·√fck
S219	y	50	30.0	20.0	50.0	14.6	6.0	14.6	9.4	24.0	2.5	123.6 <	147.9	✓
S119												Bodrum kat		
S620	x	50	30.0	20.0	50.0	0.0	0.0	8.0	9.4	9.4	0.0	49.5 <	147.9	V=1.0·bj·hc·√fck
S620	y	50	29.9	20.1	50.0	0.0	0.0	8.0	9.4	9.4	0.0	49.5 <	147.9	✓
S520	x	50	30.0	20.0	50.0	8.0	9.4	8.0	9.4	17.5	3.1	88.6 <	147.9	V=1.0·bj·hc·√fck
S520	y	50	29.9	20.1	50.0	0.0	0.0	11.4	9.4	11.4	2.4	57.7 <	147.9	✓
S420	x	50	30.0	20.0	50.0	9.2	9.4	9.2	9.4	18.6	3.5	94.2 <	147.9	V=1.0·bj·hc·√fck
S420	y	50	29.9	20.1	50.0	0.0	0.0	11.4	9.4	11.4	2.4	57.7 <	147.9	✓

KUŞATILMIS KOLON KONTROLU

Kolon	Bx/By	bw1	bw2	bj	Asu1	Asa1	Asu2	Asa2	Ast	Vkol	Ve	Vmax	AÇIKLAMA
S320	x	50	30.0	20.0	9.2	9.4	9.2	9.4	18.6	3.1	94.5 <	147.9	V=1.0.bj.hc.√fck
S320	y	50	29.9	20.1	0.0	0.0	11.4	9.4	11.4	2.1	57.9 <	147.9	✓
S220	x	50	30.0	20.0	9.2	9.4	9.2	9.4	18.6	2.3	95.4 <	147.9	V=1.0.bj.hc.√fck
S220	y	50	29.9	20.1	0.0	0.0	11.4	9.4	11.4	1.6	58.5 <	147.9	✓
S120											Bodrum kat		
S521	x	50	30.0	20.0	8.0	9.4	8.0	9.4	17.5	0.0	91.7 <	147.9	V=1.0.bj.hc.√fck
S521	y	50	29.9	20.1	0.0	0.0	16.1	15.7	16.1	0.0	84.5 <	147.9	✓
S421	x	50	30.0	20.0	9.2	9.4	9.2	9.4	18.6	2.7	95.0 <	147.9	V=1.0.bj.hc.√fck
S421	y	50	29.9	20.1	0.0	0.0	25.1	15.7	25.1	1.5	130.5 <	147.9	✓
S321	x	50	30.0	20.0	9.2	9.4	9.2	9.4	18.6	2.6	95.1 <	147.9	V=1.0.bj.hc.√fck
S321	y	50	29.9	20.1	0.0	0.0	25.1	15.7	25.1	1.5	130.5 <	147.9	✓
S221	x	50	30.0	20.0	9.2	9.4	9.2	9.4	18.6	1.9	95.8 <	147.9	V=1.0.bj.hc.√fck
S221	y	50	29.9	20.1	0.0	0.0	25.1	15.7	25.1	1.1	130.9 <	147.9	✓
S121											Bodrum kat		
S522	x	50	30.0	20.0	8.0	9.4	8.0	9.4	17.5	0.0	91.7 <	147.9	V=1.0.bj.hc.√fck
S522	y	50	29.9	20.1	0.0	0.0	17.5	15.7	17.5	0.0	91.7 <	147.9	✓
S422	x	50	30.0	20.0	9.2	9.4	9.2	9.4	18.6	2.8	94.8 <	147.9	V=1.0.bj.hc.√fck
S422	y	50	29.9	20.1	0.0	0.0	25.1	15.7	25.1	1.4	130.6 <	147.9	✓
S322	x	50	30.0	20.0	9.2	9.4	9.2	9.4	18.6	2.7	95.0 <	147.9	V=1.0.bj.hc.√fck
S322	y	50	29.9	20.1	0.0	0.0	25.1	15.7	25.1	1.4	130.6 <	147.9	✓
S222	x	50	30.0	20.0	9.2	9.4	9.2	9.4	18.6	2.0	95.7 <	147.9	V=1.0.bj.hc.√fck
S222	y	50	29.9	20.1	0.0	0.0	25.1	15.7	25.1	1.0	131.0 <	147.9	✓
S122											Bodrum kat		
S523	x	50	20.0	30.0	11.4	9.4	11.4	6.0	20.9	0.0	109.5 <	147.9	V=1.0.bj.hc.√fck
S523	y	50	24.9	25.1	9.4	9.4	9.4	6.0	18.9	0.0	99.0 <	147.9	✓
S423	x	50	20.0	30.0	12.6	9.4	12.6	6.0	22.0	3.6	111.9 <	147.9	V=1.0.bj.hc.√fck
S423	y	50	24.9	25.1	15.7	11.4	15.7	8.3	27.1	3.3	139.3 <	147.9	✓
S323	x	50	20.0	30.0	13.4	9.4	13.4	6.0	22.9	3.4	116.7 <	147.9	V=1.0.bj.hc.√fck
S323	y	50	24.9	25.1	15.7	11.4	15.7	8.3	27.1	3.1	139.5 <	147.9	✓
S223	x	50	20.0	30.0	12.6	9.4	12.6	6.0	22.0	2.8	112.7 <	147.9	V=1.0.bj.hc.√fck
S223	y	50	24.9	25.1	15.7	11.4	15.7	8.3	27.1	2.3	140.2 <	147.9	✓
S123											Bodrum kat		
S524	x	50	20.0	30.0	8.0	9.4	8.0	9.4	17.5	0.0	91.7 <	147.9	V=1.0.bj.hc.√fck
S524	y	50	24.9	25.1	8.0	6.0	8.0	6.0	14.1	0.0	73.9 <	147.9	✓
S424	x	50	20.0	30.0	12.6	9.4	12.6	9.4	22.0	3.7	111.8 <	147.9	V=1.0.bj.hc.√fck
S424	y	50	24.9	25.1	12.3	8.0	12.3	8.0	20.4	3.1	103.8 <	147.9	✓
S324	x	50	20.0	30.0	12.6	9.4	12.6	9.4	22.0	3.5	111.9 <	147.9	V=1.0.bj.hc.√fck
S324	y	50	24.9	25.1	12.3	8.0	12.3	8.0	20.4	3.0	103.9 <	147.9	✓
S224	x	50	20.0	30.0	12.6	9.4	12.6	9.4	22.0	2.9	112.5 <	147.9	V=1.0.bj.hc.√fck
S224	y	50	24.9	25.1	12.3	8.0	12.3	8.0	20.4	2.2	104.7 <	147.9	✓
S124											Bodrum kat		
S525	x	50	30.0	20.0	0.0	0.0	8.0	9.4	9.4	0.0	49.5 <	147.9	V=1.0.bj.hc.√fck
S525	y	50	35.0	15.0	6.0	6.0	6.0	6.0	12.1	0.0	63.3 <	147.9	✓
S425	x	50	30.0	20.0	0.0	0.0	11.4	9.4	11.4	2.3	57.8 <	147.9	V=1.0.bj.hc.√fck
S425	y	50	35.0	15.0	8.0	6.0	8.0	6.0	14.1	3.0	70.9 <	147.9	✓
S325	x	50	30.0	20.0	0.0	0.0	11.4	9.4	11.4	2.2	57.8 <	147.9	V=1.0.bj.hc.√fck
S325	y	50	35.0	15.0	8.0	6.0	8.0	6.0	14.1	2.7	71.2 <	147.9	✓
S225	x	50	30.0	20.0	0.0	0.0	11.4	9.4	11.4	2.0	58.1 <	147.9	V=1.0.bj.hc.√fck
S225	y	50	35.0	15.0	8.0	6.0	8.0	6.0	14.1	2.7	71.2 <	147.9	✓

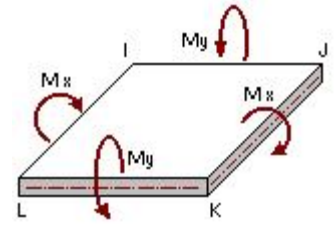
STA4-CAD Ver.14.1 RADYE PROGRAMI**RADYE MAT TEMELLERİN SONLU ELEMANLARLA ANALİZİ**

ZEMİN YATAK KATSAYISI (t/m³) : 2000.0
 ZEMİN TAŞIMA GÜCÜ TAS. GER. (t/m²): 34.0
 BETONARME HESAP YÖNTEMİ:TAŞIMA GÜCÜ YÖNTEMİ TS500-2000
 BETON ve ÇELİK MALZEME BİLGİLERİ
 Beton dayanım gerilmesi (kg/cm²):350
 Çelik akma gerilmesi (kg/cm²):4200
 Minimum donatı kesit porsantajı :0.001
 Winkler Yayları Opsiyonu:Ks=Ko (Winkler)
 Nokta Tasarım Momenti Opsiyonu:Düğüm noktasındaki tasarım momentine göre hesaplama

BETONARME HESAP YÜK KOMBİNASYON PARAMETRESİ

Ölü yük Cg	Hareketli yük Cq	Zemin Cs	Deprem ± Ce	Rüzgar ± Cw	Isı Ct
1.40	1.60	0.00	0.00	0.00	0.00
1.40	1.60	1.60	0.00	0.00	0.00
1.00	1.20	0.00	0.00	0.00	1.20
1.00	1.00	0.00	1.00	0.00	0.00
1.00	1.00	1.00	1.00	0.00	0.00
0.90	0.00	0.00	1.00	0.00	0.00
1.00	1.30	0.00	0.00	1.30	0.00
1.00	1.30	1.00	0.00	1.30	0.00
0.90	0.00	0.00	0.00	1.30	0.00
0.90	0.00	0.90	0.00	1.30	0.00

CODE:TS500T.COD

**ZEMİN GERİLMESİ YÜK KOMBİNASYONU** $q_0 < q_t$ DEPREM ZEMİN GERİLMESİ DAVRANIŞ KATSAYISI $R_s=8$

Ölü yük Cg	Hareketli yük Cq	Zemin Cs	Deprem ± Ce	Rüzgar ± Cw	Isı Ct
1.40	1.60	0.00	0.00	0.00	0.00
1.40	1.60	1.60	0.00	0.00	0.00
1.00	1.20	0.00	0.00	0.00	1.20
1.00	1.00	0.00	1.00	0.00	0.00
1.00	1.00	1.00	1.00	0.00	0.00
0.90	0.00	0.00	1.00	0.00	0.00
1.00	1.30	0.00	0.00	1.30	0.00
1.00	1.30	1.00	0.00	1.30	0.00
0.90	0.00	0.00	0.00	1.30	0.00
0.90	0.00	0.90	0.00	1.30	0.00

STATİK ANALİZ YÜK KOMBİNASYON NOTASYONLARI:

1. G+G+G+G+G	GENEL ÖLÜ YÜK
2. Q+Q+Q+Q+Q	1. GENEL HAREKETLİ YÜK
3. Q+o+Q+o+Q	2. HAREKETLİ YÜK
4. o+Q+o+Q+o	3. HAREKETLİ YÜK
5. Q+Q+o+Q+Q	4. HAREKETLİ YÜK
6. o+Q+Q+o+Q	5. HAREKETLİ YÜK
7. Q+o+Q+Q+o	6. HAREKETLİ YÜK
8. Gz	Yatay zemin itkisi
9. Ex + %5 x ey	X yönü deprem + %5 eksantrisine
10. Ex - %5 x ey	X yönü deprem - %5 eksantrisine
11. Ey + %5 x ex	Y yönü deprem + %5 eksantrisine
12. Ey - %5 x ex	Y yönü deprem - %5 eksantrisine
13. Wx	X yönü rüzgar
14. Wy	Y yönü rüzgar
15. T	Isı etkisi
17. Ez	Z deprem

$$Ed(H) = Edx \pm 0.3 \times Edy, Ed(H) = Edy \pm 0.3 \times Edx$$

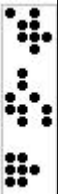
$$Ed = Ed(H) \pm 0.3 \times Edz$$

ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
1	8.013	1.767	3.885	0.451	14.046	< 34.000 ✓	13.665	< 34.000 ✓	10.231	< 34.000 ✓
2	7.559	1.734	3.715	0.431	13.357	< 34.000 ✓	13.008	< 34.000 ✓	9.724	< 34.000 ✓
3	7.139	1.707	3.541	0.411	12.725	< 34.000 ✓	12.387	< 34.000 ✓	9.256	< 34.000 ✓
4	8.626	1.893	3.832	0.392	15.105	< 34.000 ✓	14.350	< 34.000 ✓	10.911	< 34.000 ✓
5	8.149	1.856	3.662	0.372	14.377	< 34.000 ✓	13.666	< 34.000 ✓	10.376	< 34.000 ✓
6	6.753	1.688	3.346	0.387	12.155	< 34.000 ✓	11.787	< 34.000 ✓	8.828	< 34.000 ✓
7	7.691	1.822	3.489	0.352	13.683	< 34.000 ✓	13.002	< 34.000 ✓	9.865	< 34.000 ✓
8	9.256	2.021	3.767	0.332	16.192	< 34.000 ✓	15.044	< 34.000 ✓	11.609	< 34.000 ✓
9	8.742	1.978	3.601	0.312	15.404	< 34.000 ✓	14.321	< 34.000 ✓	11.032	< 34.000 ✓
10	6.393	1.677	3.098	0.355	11.634	< 34.000 ✓	11.168	< 34.000 ✓	8.425	< 34.000 ✓
11	7.260	1.795	3.299	0.330	13.035	< 34.000 ✓	12.354	< 34.000 ✓	9.384	< 34.000 ✓
12	8.235	1.937	3.427	0.292	14.629	< 34.000 ✓	13.600	< 34.000 ✓	10.464	< 34.000 ✓
13	9.859	2.146	3.647	0.267	17.235	< 34.000 ✓	15.652	< 34.000 ✓	12.272	< 34.000 ✓
14	9.310	2.097	3.498	0.247	16.389	< 34.000 ✓	14.905	< 34.000 ✓	11.654	< 34.000 ✓
15	6.079	1.681	2.775	0.310	11.200	< 34.000 ✓	10.535	< 34.000 ✓	8.069	< 34.000 ✓
16	6.844	1.774	3.064	0.301	12.420	< 34.000 ✓	11.682	< 34.000 ✓	8.919	< 34.000 ✓
17	7.750	1.900	3.240	0.270	13.890	< 34.000 ✓	12.889	< 34.000 ✓	9.919	< 34.000 ✓
18	8.741	2.046	3.326	0.226	15.512	< 34.000 ✓	14.114	< 34.000 ✓	11.014	< 34.000 ✓
19	10.339	2.251	3.405	0.195	18.077	< 34.000 ✓	15.996	< 34.000 ✓	12.786	< 34.000 ✓
20	9.693	2.177	3.376	0.198	17.054	< 34.000 ✓	15.247	< 34.000 ✓	12.068	< 34.000 ✓
21	9.246	2.135	3.261	0.181	16.361	< 34.000 ✓	14.642	< 34.000 ✓	11.563	< 34.000 ✓
22	5.868	1.707	2.413	0.259	10.946	< 34.000 ✓	9.988	< 34.000 ✓	7.834	< 34.000 ✓
23	6.446	1.762	2.736	0.259	11.844	< 34.000 ✓	10.945	< 34.000 ✓	8.468	< 34.000 ✓
24	7.257	1.856	3.064	0.259	13.130	< 34.000 ✓	12.177	< 34.000 ✓	9.372	< 34.000 ✓
25	8.178	1.997	3.131	0.203	14.645	< 34.000 ✓	13.306	< 34.000 ✓	10.378	< 34.000 ✓
26	9.054	2.117	3.207	0.174	16.063	< 34.000 ✓	14.378	< 34.000 ✓	11.345	< 34.000 ✓
27	10.673	2.333	3.038	0.178	18.674	< 34.000 ✓	16.043	< 34.000 ✓	13.184	< 34.000 ✓
28	9.147	2.141	3.137	0.152	16.230	< 34.000 ✓	14.424	< 34.000 ✓	11.439	< 34.000 ✓
29	10.003	2.254	3.078	0.129	17.610	< 34.000 ✓	15.334	< 34.000 ✓	12.385	< 34.000 ✓
30	6.164	1.775	2.375	0.214	11.469	< 34.000 ✓	10.313	< 34.000 ✓	8.152	< 34.000 ✓
31	5.791	1.760	2.055	0.209	10.923	< 34.000 ✓	9.606	< 34.000 ✓	7.760	< 34.000 ✓
32	6.779	1.838	2.686	0.206	12.432	< 34.000 ✓	11.303	< 34.000 ✓	8.823	< 34.000 ✓
33	7.596	1.936	2.961	0.194	13.733	< 34.000 ✓	12.493	< 34.000 ✓	9.727	< 34.000 ✓
34	8.349	2.052	2.987	0.147	14.971	< 34.000 ✓	13.388	< 34.000 ✓	10.548	< 34.000 ✓
35	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
36	10.933	2.399	2.607	0.170	19.144	< 34.000 ✓	15.939	< 34.000 ✓	13.501	< 34.000 ✓
37	9.420	2.211	2.859	0.084	16.726	< 34.000 ✓	14.491	< 34.000 ✓	11.715	< 34.000 ✓
38	10.347	2.343	2.584	0.119	18.235	< 34.000 ✓	15.275	< 34.000 ✓	12.809	< 34.000 ✓
39	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
40	6.028	1.815	2.025	0.170	11.344	< 34.000 ✓	9.868	< 34.000 ✓	8.013	< 34.000 ✓
41	6.419	1.835	2.324	0.166	11.922	< 34.000 ✓	10.578	< 34.000 ✓	8.420	< 34.000 ✓
42	5.836	1.831	1.733	0.165	11.100	< 34.000 ✓	9.399	< 34.000 ✓	7.832	< 34.000 ✓
43	7.068	1.908	2.598	0.148	12.947	< 34.000 ✓	11.573	< 34.000 ✓	9.123	< 34.000 ✓
44	7.901	2.011	2.831	0.131	14.279	< 34.000 ✓	12.743	< 34.000 ✓	10.043	< 34.000 ✓
45	8.788	2.150	2.738	0.066	15.744	< 34.000 ✓	13.676	< 34.000 ✓	11.004	< 34.000 ✓
46	11.116	2.450	2.123	0.159	19.483	< 34.000 ✓	15.689	< 34.000 ✓	13.725	< 34.000 ✓
47	9.634	2.271	2.539	0.066	17.121	< 34.000 ✓	14.444	< 34.000 ✓	11.970	< 34.000 ✓
48	10.524	2.394	2.157	0.110	18.564	< 34.000 ✓	15.075	< 34.000 ✓	13.028	< 34.000 ✓
49	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
50	6.219	1.862	1.981	0.130	11.685	< 34.000 ✓	10.062	< 34.000 ✓	8.211	< 34.000 ✓
51	6.031	1.878	1.713	0.132	11.448	< 34.000 ✓	9.622	< 34.000 ✓	8.041	< 34.000 ✓
52	6.632	1.889	2.251	0.118	12.306	< 34.000 ✓	10.771	< 34.000 ✓	8.638	< 34.000 ✓
53	5.937	1.904	1.454	0.129	11.358	< 34.000 ✓	9.295	< 34.000 ✓	7.970	< 34.000 ✓
54	7.313	1.971	2.477	0.090	13.391	< 34.000 ✓	11.760	< 34.000 ✓	9.373	< 34.000 ✓
55	8.155	2.077	2.664	0.071	14.739	< 34.000 ✓	12.896	< 34.000 ✓	10.303	< 34.000 ✓
56	8.980	2.205	2.473	0.022	16.100	< 34.000 ✓	13.659	< 34.000 ✓	11.207	< 34.000 ✓
57	11.214	2.483	1.883	0.147	19.672	< 34.000 ✓	15.580	< 34.000 ✓	13.844	< 34.000 ✓
58	9.790	2.318	2.179	0.059	17.415	< 34.000 ✓	14.287	< 34.000 ✓	12.168	< 34.000 ✓
59	10.625	2.428	1.710	0.101	18.759	< 34.000 ✓	14.762	< 34.000 ✓	13.153	< 34.000 ✓
60	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
61	6.177	1.916	1.680	0.099	11.713	< 34.000 ✓	9.773	< 34.000 ✓	8.192	< 34.000 ✓
62	6.354	1.899	1.918	0.090	11.934	< 34.000 ✓	10.171	< 34.000 ✓	8.343	< 34.000 ✓
63	6.114	1.947	1.448	0.102	11.676	< 34.000 ✓	9.510	< 34.000 ✓	8.163	< 34.000 ✓
64	6.808	1.936	2.151	0.069	12.629	< 34.000 ✓	10.894	< 34.000 ✓	8.813	< 34.000 ✓
65	6.010	1.954	1.217	0.102	11.541	< 34.000 ✓	9.181	< 34.000 ✓	8.066	< 34.000 ✓
66	7.515	2.027	2.324	0.048	13.764	< 34.000 ✓	11.865	< 34.000 ✓	9.590	< 34.000 ✓
67	8.412	2.151	2.378	0.015	15.218	< 34.000 ✓	12.941	< 34.000 ✓	10.578	< 34.000 ✓
68	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
69	9.117	2.250	2.175	0.033	16.364	< 34.000 ✓	13.542	< 34.000 ✓	11.400	< 34.000 ✓
70	11.219	2.495	1.896	0.133	19.698	< 34.000 ✓	15.610	< 34.000 ✓	13.846	< 34.000 ✓
71	9.882	2.352	1.787	0.059	17.599	< 34.000 ✓	14.021	< 34.000 ✓	12.293	< 34.000 ✓
72	10.643	2.445	1.716	0.091	18.811	< 34.000 ✓	14.804	< 34.000 ✓	13.178	< 34.000 ✓
73	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
74	6.262	1.988	1.432	0.074	11.947	< 34.000 ✓	9.681	< 34.000 ✓	8.323	< 34.000 ✓
75	6.236	1.935	1.625	0.066	11.827	< 34.000 ✓	9.796	< 34.000 ✓	8.237	< 34.000 ✓
76	6.453	1.929	1.834	0.067	12.122	< 34.000 ✓	10.216	< 34.000 ✓	8.449	< 34.000 ✓
77	6.162	1.993	1.221	0.079	11.815	< 34.000 ✓	9.375	< 34.000 ✓	8.234	< 34.000 ✓
78	6.957	1.982	2.027	0.062	12.911	< 34.000 ✓	10.966	< 34.000 ✓	9.001	< 34.000 ✓
79	6.033	1.977	1.022	0.085	11.610	< 34.000 ✓	9.032	< 34.000 ✓	8.095	< 34.000 ✓
80	7.677	2.078	2.145	0.047	14.071	< 34.000 ✓	11.899	< 34.000 ✓	9.802	< 34.000 ✓
81	8.539	2.195	2.126	0.042	15.467	< 34.000 ✓	12.861	< 34.000 ✓	10.776	< 34.000 ✓
82	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
83	9.200	2.284	1.848	0.070	16.534	< 34.000 ✓	13.332	< 34.000 ✓	11.553	< 34.000 ✓
84	11.125	2.486	1.922	0.118	19.553	< 34.000 ✓	15.534	< 34.000 ✓	13.730	< 34.000 ✓

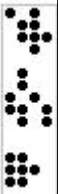
ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
85	9.906	2.372	1.509	0.087	17.664	< 34.000 ✓	13.788	< 34.000 ✓	12.365	< 34.000 ✓
86	10.572	2.441	1.723	0.089	18.707	< 34.000 ✓	14.736	< 34.000 ✓	13.103	< 34.000 ✓
87	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
88	6.230	1.986	1.380	0.055	11.899	< 34.000 ✓	9.596	< 34.000 ✓	8.271	< 34.000 ✓
89	6.357	2.037	1.296	0.059	12.158	< 34.000 ✓	9.690	< 34.000 ✓	8.453	< 34.000 ✓
90	6.249	1.946	1.552	0.063	11.862	< 34.000 ✓	9.747	< 34.000 ✓	8.258	< 34.000 ✓
91	6.545	1.962	1.734	0.066	12.302	< 34.000 ✓	10.241	< 34.000 ✓	8.573	< 34.000 ✓
92	6.127	2.003	1.027	0.065	11.784	< 34.000 ✓	9.158	< 34.000 ✓	8.196	< 34.000 ✓
93	6.292	2.031	1.207	0.056	12.059	< 34.000 ✓	9.530	< 34.000 ✓	8.379	< 34.000 ✓
94	7.093	2.027	1.884	0.061	13.173	< 34.000 ✓	11.004	< 34.000 ✓	9.181	< 34.000 ✓
95	6.064	1.989	0.878	0.077	11.671	< 34.000 ✓	8.930	< 34.000 ✓	8.130	< 34.000 ✓
96	7.803	2.123	1.942	0.046	14.321	< 34.000 ✓	11.868	< 34.000 ✓	9.973	< 34.000 ✓
97	8.618	2.230	1.849	0.076	15.634	< 34.000 ✓	12.697	< 34.000 ✓	10.925	< 34.000 ✓
98	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
99	9.229	2.308	1.502	0.098	16.613	< 34.000 ✓	13.038	< 34.000 ✓	11.635	< 34.000 ✓
100	10.951	2.458	2.049	0.106	19.265	< 34.000 ✓	15.458	< 34.000 ✓	13.515	< 34.000 ✓
101	10.605	2.441	1.768	0.090	18.752	< 34.000 ✓	14.813	< 34.000 ✓	13.136	< 34.000 ✓
102	9.860	2.377	1.508	0.104	17.606	< 34.000 ✓	13.744	< 34.000 ✓	12.341	< 34.000 ✓
103	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
104	6.207	2.017	1.162	0.042	11.918	< 34.000 ✓	9.386	< 34.000 ✓	8.267	< 34.000 ✓
105	6.153	1.975	1.312	0.053	11.774	< 34.000 ✓	9.440	< 34.000 ✓	8.181	< 34.000 ✓
106	6.281	1.965	1.470	0.061	11.938	< 34.000 ✓	9.716	< 34.000 ✓	8.308	< 34.000 ✓
107	6.654	2.002	1.623	0.064	12.519	< 34.000 ✓	10.278	< 34.000 ✓	8.720	< 34.000 ✓
108	6.126	2.008	0.884	0.060	11.788	< 34.000 ✓	9.017	< 34.000 ✓	8.193	< 34.000 ✓
109	6.177	2.021	1.018	0.045	11.881	< 34.000 ✓	9.216	< 34.000 ✓	8.243	< 34.000 ✓
110	7.221	2.074	1.724	0.059	13.428	< 34.000 ✓	11.019	< 34.000 ✓	9.354	< 34.000 ✓
111	6.158	2.002	0.789	0.079	11.825	< 34.000 ✓	8.949	< 34.000 ✓	8.240	< 34.000 ✓
112	7.898	2.164	1.718	0.077	14.519	< 34.000 ✓	11.779	< 34.000 ✓	10.139	< 34.000 ✓
113	8.654	2.257	1.550	0.104	15.727	< 34.000 ✓	12.462	< 34.000 ✓	11.015	< 34.000 ✓
114	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
115	9.208	2.321	1.320	0.118	16.604	< 34.000 ✓	12.848	< 34.000 ✓	11.646	< 34.000 ✓
116	10.743	2.423	2.419	0.094	18.917	< 34.000 ✓	15.585	< 34.000 ✓	13.260	< 34.000 ✓
117	10.501	2.425	1.794	0.093	18.581	< 34.000 ✓	14.720	< 34.000 ✓	13.018	< 34.000 ✓
118	10.374	2.415	1.745	0.096	18.387	< 34.000 ✓	14.534	< 34.000 ✓	12.885	< 34.000 ✓
119	9.748	2.367	1.511	0.112	17.434	< 34.000 ✓	13.625	< 34.000 ✓	12.227	< 34.000 ✓
120	6.094	1.998	1.111	0.040	11.729	< 34.000 ✓	9.203	< 34.000 ✓	8.132	< 34.000 ✓
121	6.128	2.017	0.987	0.026	11.807	< 34.000 ✓	9.132	< 34.000 ✓	8.172	< 34.000 ✓
122	6.132	1.982	1.244	0.051	11.757	< 34.000 ✓	9.359	< 34.000 ✓	8.166	< 34.000 ✓
123	6.366	2.001	1.386	0.059	12.113	< 34.000 ✓	9.752	< 34.000 ✓	8.426	< 34.000 ✓
124	6.788	2.053	1.503	0.061	12.787	< 34.000 ✓	10.343	< 34.000 ✓	8.902	< 34.000 ✓
125	6.143	2.018	0.876	0.042	11.830	< 34.000 ✓	9.037	< 34.000 ✓	8.203	< 34.000 ✓
126	6.214	2.021	0.797	0.062	11.933	< 34.000 ✓	9.032	< 34.000 ✓	8.297	< 34.000 ✓
127	7.340	2.122	1.549	0.073	13.672	< 34.000 ✓	11.011	< 34.000 ✓	9.535	< 34.000 ✓
128	6.318	2.018	0.752	0.091	12.074	< 34.000 ✓	9.088	< 34.000 ✓	8.427	< 34.000 ✓
129	7.961	2.198	1.475	0.102	14.663	< 34.000 ✓	11.634	< 34.000 ✓	10.261	< 34.000 ✓
130	8.654	2.276	1.236	0.125	15.757	< 34.000 ✓	12.166	< 34.000 ✓	11.055	< 34.000 ✓
131	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
132	9.141	2.324	1.309	0.129	16.516	< 34.000 ✓	12.774	< 34.000 ✓	11.594	< 34.000 ✓
133	10.516	2.382	2.755	0.084	18.534	< 34.000 ✓	15.654	< 34.000 ✓	12.982	< 34.000 ✓
134	10.312	2.394	2.105	0.093	18.267	< 34.000 ✓	14.811	< 34.000 ✓	12.798	< 34.000 ✓
135	9.600	2.347	1.601	0.110	17.195	< 34.000 ✓	13.548	< 34.000 ✓	12.057	< 34.000 ✓
136	6.048	2.008	0.947	0.024	11.680	< 34.000 ✓	9.003	< 34.000 ✓	8.080	< 34.000 ✓
137	6.054	2.002	1.058	0.038	11.678	< 34.000 ✓	9.114	< 34.000 ✓	8.093	< 34.000 ✓
138	6.105	2.018	0.854	0.024	11.776	< 34.000 ✓	8.977	< 34.000 ✓	8.147	< 34.000 ✓
139	6.202	2.016	1.183	0.049	11.908	< 34.000 ✓	9.400	< 34.000 ✓	8.267	< 34.000 ✓
140	6.513	2.056	1.301	0.056	12.408	< 34.000 ✓	9.870	< 34.000 ✓	8.625	< 34.000 ✓
141	6.942	2.111	1.374	0.067	13.096	< 34.000 ✓	10.427	< 34.000 ✓	9.119	< 34.000 ✓
142	6.227	2.031	0.792	0.045	11.968	< 34.000 ✓	9.051	< 34.000 ✓	8.303	< 34.000 ✓
143	6.394	2.043	0.764	0.074	12.220	< 34.000 ✓	9.201	< 34.000 ✓	8.510	< 34.000 ✓
144	7.442	2.167	1.359	0.093	13.887	< 34.000 ✓	10.969	< 34.000 ✓	9.703	< 34.000 ✓
145	6.489	2.023	0.765	0.114	12.322	< 34.000 ✓	9.277	< 34.000 ✓	8.626	< 34.000 ✓
146	7.993	2.226	1.215	0.120	14.751	< 34.000 ✓	11.433	< 34.000 ✓	10.338	< 34.000 ✓
147	8.574	2.287	1.135	0.142	15.663	< 34.000 ✓	11.996	< 34.000 ✓	11.003	< 34.000 ✓
148	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
149	9.032	2.315	1.311	0.125	16.348	< 34.000 ✓	12.658	< 34.000 ✓	11.472	< 34.000 ✓
150	9.985	2.350	2.340	0.090	17.739	< 34.000 ✓	14.675	< 34.000 ✓	12.425	< 34.000 ✓
151	10.296	2.343	3.075	0.075	18.163	< 34.000 ✓	15.714	< 34.000 ✓	12.713	< 34.000 ✓
152	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
153	9.435	2.320	1.925	0.102	16.922	< 34.000 ✓	13.680	< 34.000 ✓	11.857	< 34.000 ✓
154	6.023	2.017	0.910	0.021	11.659	< 34.000 ✓	8.950	< 34.000 ✓	8.061	< 34.000 ✓
155	6.050	2.017	0.826	0.008	11.696	< 34.000 ✓	8.892	< 34.000 ✓	8.074	< 34.000 ✓
156	6.125	2.036	1.017	0.035	11.833	< 34.000 ✓	9.178	< 34.000 ✓	8.196	< 34.000 ✓
157	6.187	2.031	0.774	0.028	11.911	< 34.000 ✓	8.992	< 34.000 ✓	8.246	< 34.000 ✓
158	6.369	2.077	1.129	0.046	12.240	< 34.000 ✓	9.575	< 34.000 ✓	8.492	< 34.000 ✓
159	6.714	2.127	1.215	0.059	12.803	< 34.000 ✓	10.056	< 34.000 ✓	8.901	< 34.000 ✓
160	7.097	2.170	1.236	0.082	13.408	< 34.000 ✓	10.503	< 34.000 ✓	9.349	< 34.000 ✓
161	6.428	2.060	0.764	0.055	12.296	< 34.000 ✓	9.252	< 34.000 ✓	8.543	< 34.000 ✓
162	6.607	2.060	0.812	0.094	12.545	< 34.000 ✓	9.478	< 34.000 ✓	8.760	< 34.000 ✓
163	7.515	2.204	1.154	0.107	14.048	< 34.000 ✓	10.874	< 34.000 ✓	9.826	< 34.000 ✓
164	6.611	2.001	0.950	0.147	12.458	< 34.000 ✓	9.563	< 34.000 ✓	8.759	< 34.000 ✓
165	7.991	2.244	0.971	0.129	14.778	< 34.000 ✓	11.207	< 34.000 ✓	10.365	< 34.000 ✓
166	8.486	2.284	1.113	0.133	15.536	< 34.000 ✓	11.884	< 34.000 ✓	10.904	< 34.000 ✓
167	8.914	2.300	1.544	0.111	16.159	< 34.000 ✓	12.758	< 34.000 ✓	11.325	< 34.000 ✓
168	9.799	2.316	2.610	0.083	17.424	< 34.000 ✓	14.725	< 34.000 ✓	12.198	< 34.000 ✓



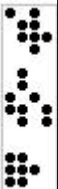
ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
169	10.101	2.302	3.373	0.066	17.825 <	34.000 ✓	15.777 <	34.000 ✓	12.470 <	34.000 ✓
170	9.922	2.323	2.720	0.081	17.608 <	34.000 ✓	14.966 <	34.000 ✓	12.326 <	34.000 ✓
171	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
172	9.259	2.286	2.225	0.089	16.619 <	34.000 ✓	13.769 <	34.000 ✓	11.633 <	34.000 ✓
173	6.043	2.031	0.801	0.007	11.710 <	34.000 ✓	8.875 <	34.000 ✓	8.081 <	34.000 ✓
174	6.107	2.056	0.886	0.022	11.840 <	34.000 ✓	9.049 <	34.000 ✓	8.185 <	34.000 ✓
175	6.131	2.031	0.750	0.017	11.833 <	34.000 ✓	8.912 <	34.000 ✓	8.179 <	34.000 ✓
176	6.315	2.104	0.988	0.037	12.207 <	34.000 ✓	9.407 <	34.000 ✓	8.456 <	34.000 ✓
177	6.372	2.057	0.744	0.037	12.212 <	34.000 ✓	9.173 <	34.000 ✓	8.466 <	34.000 ✓
178	6.622	2.162	1.081	0.053	12.730 <	34.000 ✓	9.865 <	34.000 ✓	8.837 <	34.000 ✓
179	6.937	2.205	1.125	0.072	13.240 <	34.000 ✓	10.267 <	34.000 ✓	9.214 <	34.000 ✓
180	7.222	2.219	1.085	0.092	13.661 <	34.000 ✓	10.526 <	34.000 ✓	9.534 <	34.000 ✓
181	6.713	2.097	0.852	0.072	12.753 <	34.000 ✓	9.662 <	34.000 ✓	8.882 <	34.000 ✓
182	6.742	2.043	0.999	0.123	12.707 <	34.000 ✓	9.783 <	34.000 ✓	8.907 <	34.000 ✓
183	7.547	2.228	0.940	0.113	14.131 <	34.000 ✓	10.715 <	34.000 ✓	9.888 <	34.000 ✓
184	6.702	1.957	1.164	0.191	12.514 <	34.000 ✓	9.823 <	34.000 ✓	8.849 <	34.000 ✓
185	7.953	2.250	0.954	0.124	14.734 <	34.000 ✓	11.157 <	34.000 ✓	10.327 <	34.000 ✓
186	8.413	2.279	1.224	0.115	15.426 <	34.000 ✓	11.917 <	34.000 ✓	10.808 <	34.000 ✓
187	8.771	2.272	1.828	0.094	15.916 <	34.000 ✓	12.872 <	34.000 ✓	11.138 <	34.000 ✓
188	9.593	2.274	2.943	0.071	17.068 <	34.000 ✓	14.810 <	34.000 ✓	11.938 <	34.000 ✓
189	9.921	2.261	3.652	0.059	17.508 <	34.000 ✓	15.835 <	34.000 ✓	12.241 <	34.000 ✓
190	9.702	2.281	3.036	0.070	17.232 <	34.000 ✓	15.018 <	34.000 ✓	12.053 <	34.000 ✓
191	9.060	2.242	2.496	0.075	16.271 <	34.000 ✓	13.798 <	34.000 ✓	11.377 <	34.000 ✓
192	6.141	2.074	0.789	0.019	11.915 <	34.000 ✓	9.003 <	34.000 ✓	8.234 <	34.000 ✓
193	6.127	2.046	0.731	0.020	11.852 <	34.000 ✓	8.904 <	34.000 ✓	8.194 <	34.000 ✓
194	6.316	2.129	0.876	0.033	12.250 <	34.000 ✓	9.322 <	34.000 ✓	8.479 <	34.000 ✓
195	6.291	2.051	0.720	0.040	12.089 <	34.000 ✓	9.062 <	34.000 ✓	8.382 <	34.000 ✓
196	6.612	2.200	0.970	0.047	12.778 <	34.000 ✓	9.783 <	34.000 ✓	8.860 <	34.000 ✓
197	6.611	2.083	0.864	0.060	12.589 <	34.000 ✓	9.559 <	34.000 ✓	8.754 <	34.000 ✓
198	6.925	2.260	1.033	0.062	13.311 <	34.000 ✓	10.218 <	34.000 ✓	9.248 <	34.000 ✓
199	7.130	2.271	1.023	0.079	13.615 <	34.000 ✓	10.424 <	34.000 ✓	9.479 <	34.000 ✓
200	7.291	2.249	0.921	0.096	13.806 <	34.000 ✓	10.461 <	34.000 ✓	9.635 <	34.000 ✓
201	6.840	2.112	0.933	0.079	12.955 <	34.000 ✓	9.884 <	34.000 ✓	9.031 <	34.000 ✓
202	6.824	1.998	1.208	0.161	12.751 <	34.000 ✓	10.030 <	34.000 ✓	8.984 <	34.000 ✓
203	6.847	2.080	1.039	0.098	12.915 <	34.000 ✓	9.967 <	34.000 ✓	9.026 <	34.000 ✓
204	7.534	2.236	0.834	0.109	14.124 <	34.000 ✓	10.604 <	34.000 ✓	9.878 <	34.000 ✓
205	6.842	1.912	1.407	0.245	12.638 <	34.000 ✓	10.161 <	34.000 ✓	8.999 <	34.000 ✓
206	7.888	2.243	0.959	0.109	14.631 <	34.000 ✓	11.089 <	34.000 ✓	10.240 <	34.000 ✓
207	8.411	2.276	1.494	0.097	15.416 <	34.000 ✓	12.181 <	34.000 ✓	10.784 <	34.000 ✓
208	8.554	2.219	2.075	0.077	15.526 <	34.000 ✓	12.848 <	34.000 ✓	10.850 <	34.000 ✓
209	9.518	2.239	3.330	0.057	16.908 <	34.000 ✓	15.087 <	34.000 ✓	11.814 <	34.000 ✓
210	9.747	2.222	3.913	0.052	17.200 <	34.000 ✓	15.882 <	34.000 ✓	12.020 <	34.000 ✓
211	8.874	2.198	2.751	0.060	15.941 <	34.000 ✓	13.823 <	34.000 ✓	11.132 <	34.000 ✓
212	6.228	2.090	0.725	0.023	12.064 <	34.000 ✓	9.044 <	34.000 ✓	8.342 <	34.000 ✓
213	6.360	2.150	0.792	0.030	12.343 <	34.000 ✓	9.301 <	34.000 ✓	8.540 <	34.000 ✓
214	6.274	2.063	0.737	0.044	12.084 <	34.000 ✓	9.074 <	34.000 ✓	8.381 <	34.000 ✓
215	6.639	2.232	0.880	0.043	12.866 <	34.000 ✓	9.751 <	34.000 ✓	8.914 <	34.000 ✓
216	6.495	2.068	0.871	0.065	12.401 <	34.000 ✓	9.434 <	34.000 ✓	8.628 <	34.000 ✓
217	6.977	2.313	0.957	0.055	13.469 <	34.000 ✓	10.247 <	34.000 ✓	9.345 <	34.000 ✓
218	6.783	2.077	1.053	0.085	12.820 <	34.000 ✓	9.913 <	34.000 ✓	8.945 <	34.000 ✓
219	7.212	2.352	0.977	0.067	13.860 <	34.000 ✓	10.541 <	34.000 ✓	9.631 <	34.000 ✓
220	7.232	2.306	0.903	0.080	13.814 <	34.000 ✓	10.441 <	34.000 ✓	9.618 <	34.000 ✓
221	7.297	2.256	0.760	0.092	13.826 <	34.000 ✓	10.314 <	34.000 ✓	9.645 <	34.000 ✓
222	6.976	1.958	1.448	0.209	12.900 <	34.000 ✓	10.382 <	34.000 ✓	9.143 <	34.000 ✓
223	6.906	2.031	1.242	0.132	12.918 <	34.000 ✓	10.179 <	34.000 ✓	9.069 <	34.000 ✓
224	7.474	2.224	0.824	0.097	14.023 <	34.000 ✓	10.522 <	34.000 ✓	9.795 <	34.000 ✓
225	7.087	1.883	1.674	0.309	12.934 <	34.000 ✓	10.644 <	34.000 ✓	9.279 <	34.000 ✓
226	7.781	2.216	1.181	0.090	14.440 <	34.000 ✓	11.179 <	34.000 ✓	10.088 <	34.000 ✓
227	8.080	2.196	1.701	0.076	14.825 <	34.000 ✓	11.977 <	34.000 ✓	10.351 <	34.000 ✓
228	8.362	2.165	2.310	0.060	15.171 <	34.000 ✓	12.837 <	34.000 ✓	10.587 <	34.000 ✓
229	9.258	2.196	3.464	0.045	16.476 <	34.000 ✓	14.918 <	34.000 ✓	11.499 <	34.000 ✓
230	9.278	2.175	3.815	0.035	16.469 <	34.000 ✓	15.267 <	34.000 ✓	11.488 <	34.000 ✓
231	9.609	2.187	4.163	0.046	16.952 <	34.000 ✓	15.959 <	34.000 ✓	11.843 <	34.000 ✓
232	8.732	2.161	2.998	0.045	15.683 <	34.000 ✓	13.891 <	34.000 ✓	10.939 <	34.000 ✓
233	6.449	2.167	0.735	0.027	12.497 <	34.000 ✓	9.352 <	34.000 ✓	8.644 <	34.000 ✓
234	6.372	2.107	0.765	0.047	12.292 <	34.000 ✓	9.244 <	34.000 ✓	8.526 <	34.000 ✓
235	6.687	2.255	0.808	0.039	12.969 <	34.000 ✓	9.749 <	34.000 ✓	8.980 <	34.000 ✓
236	6.466	2.078	0.885	0.070	12.378 <	34.000 ✓	9.429 <	34.000 ✓	8.615 <	34.000 ✓
237	7.031	2.352	0.889	0.049	13.606 <	34.000 ✓	10.272 <	34.000 ✓	9.431 <	34.000 ✓
238	6.695	2.070	1.059	0.092	12.685 <	34.000 ✓	9.824 <	34.000 ✓	8.857 <	34.000 ✓
239	7.389	2.435	0.926	0.059	14.241 <	34.000 ✓	10.750 <	34.000 ✓	9.884 <	34.000 ✓
240	6.915	2.048	1.263	0.111	12.958 <	34.000 ✓	10.225 <	34.000 ✓	9.074 <	34.000 ✓
241	7.325	2.386	0.890	0.067	14.072 <	34.000 ✓	10.600 <	34.000 ✓	9.778 <	34.000 ✓
242	7.250	2.312	0.767	0.076	13.849 <	34.000 ✓	10.328 <	34.000 ✓	9.638 <	34.000 ✓
243	7.246	2.242	0.751	0.082	13.732 <	34.000 ✓	10.239 <	34.000 ✓	9.570 <	34.000 ✓
244	7.072	1.997	1.481	0.172	13.096 <	34.000 ✓	10.550 <	34.000 ✓	9.242 <	34.000 ✓
245	7.247	1.938	1.714	0.264	13.247 <	34.000 ✓	10.899 <	34.000 ✓	9.449 <	34.000 ✓
246	7.369	2.192	0.949	0.081	13.824 <	34.000 ✓	10.511 <	34.000 ✓	9.642 <	34.000 ✓
247	7.434	1.872	1.942	0.382	13.403 <	34.000 ✓	11.248 <	34.000 ✓	9.688 <	34.000 ✓
248	7.608	2.163	1.378	0.071	14.111 <	34.000 ✓	11.149 <	34.000 ✓	9.842 <	34.000 ✓
249	7.889	2.136	1.913	0.057	14.461 <	34.000 ✓	11.937 <	34.000 ✓	10.082 <	34.000 ✓
250	8.250	2.127	2.546	0.043	14.953 <	34.000 ✓	12.923 <	34.000 ✓	10.420 <	34.000 ✓
251	9.208	2.171	3.750	0.033	16.365 <	34.000 ✓	15.129 <	34.000 ✓	11.412 <	34.000 ✓
252	9.250	2.166	3.887	0.034	16.416 <	34.000 ✓	15.303 <	34.000 ✓	11.450 <	34.000 ✓



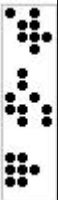
ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
253	9.468	2.154	4.391	0.041	16.701 <	34.000 ✓	16.013 <	34.000 ✓	11.663 <	34.000 ✓
254	8.684	2.139	3.245	0.031	15.579 <	34.000 ✓	14.068 <	34.000 ✓	10.854 <	34.000 ✓
255	6.594	2.185	0.805	0.049	12.728 <	34.000 ✓	9.584 <	34.000 ✓	8.828 <	34.000 ✓
256	6.772	2.271	0.757	0.036	13.115 <	34.000 ✓	9.800 <	34.000 ✓	9.080 <	34.000 ✓
257	6.565	2.122	0.909	0.074	12.587 <	34.000 ✓	9.597 <	34.000 ✓	8.762 <	34.000 ✓
258	7.073	2.373	0.828	0.045	13.699 <	34.000 ✓	10.275 <	34.000 ✓	9.491 <	34.000 ✓
259	6.689	2.087	1.072	0.098	12.703 <	34.000 ✓	9.848 <	34.000 ✓	8.873 <	34.000 ✓
260	7.465	2.479	0.882	0.053	14.418 <	34.000 ✓	10.826 <	34.000 ✓	9.997 <	34.000 ✓
261	6.904	2.062	1.277	0.118	12.965 <	34.000 ✓	10.243 <	34.000 ✓	9.084 <	34.000 ✓
262	7.446	2.453	0.871	0.058	14.349 <	34.000 ✓	10.770 <	34.000 ✓	9.957 <	34.000 ✓
263	7.344	2.409	0.947	0.063	14.136 <	34.000 ✓	10.700 <	34.000 ✓	9.816 <	34.000 ✓
264	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
265	7.129	2.028	1.505	0.137	13.225 <	34.000 ✓	10.662 <	34.000 ✓	9.294 <	34.000 ✓
266	7.333	2.386	0.779	0.063	14.084 <	34.000 ✓	10.498 <	34.000 ✓	9.782 <	34.000 ✓
267	7.210	2.296	0.722	0.068	13.768 <	34.000 ✓	10.228 <	34.000 ✓	9.574 <	34.000 ✓
268	7.145	2.205	0.792	0.069	13.532 <	34.000 ✓	10.143 <	34.000 ✓	9.419 <	34.000 ✓
269	7.373	1.986	1.750	0.219	13.501 <	34.000 ✓	11.109 <	34.000 ✓	9.579 <	34.000 ✓
270	7.631	1.939	1.987	0.326	13.786 <	34.000 ✓	11.556 <	34.000 ✓	9.895 <	34.000 ✓
271	7.236	2.144	1.121	0.063	13.560 <	34.000 ✓	10.501 <	34.000 ✓	9.443 <	34.000 ✓
272	7.824	1.873	2.171	0.459	13.950 <	34.000 ✓	11.868 <	34.000 ✓	10.156 <	34.000 ✓
273	7.466	2.109	1.570	0.053	13.826 <	34.000 ✓	11.144 <	34.000 ✓	9.628 <	34.000 ✓
274	7.808	2.096	2.132	0.040	14.286 <	34.000 ✓	12.037 <	34.000 ✓	9.945 <	34.000 ✓
275	8.243	2.109	2.788	0.028	14.915 <	34.000 ✓	13.140 <	34.000 ✓	10.381 <	34.000 ✓
276	9.163	2.157	3.874	0.031	16.280 <	34.000 ✓	15.194 <	34.000 ✓	11.351 <	34.000 ✓
277	9.131	2.144	3.991	0.030	16.214 <	34.000 ✓	15.266 <	34.000 ✓	11.305 <	34.000 ✓
278	9.386	2.130	4.585	0.037	16.549 <	34.000 ✓	16.102 <	34.000 ✓	11.553 <	34.000 ✓
279	8.722	2.128	3.479	0.019	15.616 <	34.000 ✓	14.330 <	34.000 ✓	10.869 <	34.000 ✓
280	6.919	2.289	0.852	0.049	13.349 <	34.000 ✓	10.060 <	34.000 ✓	9.257 <	34.000 ✓
281	6.794	2.202	0.944	0.076	13.034 <	34.000 ✓	9.940 <	34.000 ✓	9.071 <	34.000 ✓
282	7.139	2.385	0.804	0.043	13.811 <	34.000 ✓	10.328 <	34.000 ✓	9.567 <	34.000 ✓
283	6.803	2.136	1.095	0.102	12.941 <	34.000 ✓	10.033 <	34.000 ✓	9.041 <	34.000 ✓
284	7.425	2.479	0.837	0.048	14.362 <	34.000 ✓	10.741 <	34.000 ✓	9.952 <	34.000 ✓
285	7.495	2.497	0.858	0.050	14.489 <	34.000 ✓	10.851 <	34.000 ✓	10.042 <	34.000 ✓
286	6.948	2.092	1.293	0.125	13.075 <	34.000 ✓	10.333 <	34.000 ✓	9.165 <	34.000 ✓
287	7.526	2.496	0.841	0.052	14.531 <	34.000 ✓	10.864 <	34.000 ✓	10.074 <	34.000 ✓
288	7.178	2.058	1.525	0.142	13.343 <	34.000 ✓	10.761 <	34.000 ✓	9.379 <	34.000 ✓
289	7.439	2.449	0.781	0.054	14.333 <	34.000 ✓	10.669 <	34.000 ✓	9.942 <	34.000 ✓
290	7.462	2.028	1.775	0.176	13.691 <	34.000 ✓	11.264 <	34.000 ✓	9.665 <	34.000 ✓
291	7.311	2.371	0.726	0.056	14.029 <	34.000 ✓	10.408 <	34.000 ✓	9.738 <	34.000 ✓
292	7.112	2.255	0.711	0.057	13.564 <	34.000 ✓	10.078 <	34.000 ✓	9.423 <	34.000 ✓
293	7.021	2.153	0.934	0.054	13.273 <	34.000 ✓	10.107 <	34.000 ✓	9.227 <	34.000 ✓
294	7.801	2.001	2.029	0.270	14.123 <	34.000 ✓	11.831 <	34.000 ✓	10.072 <	34.000 ✓
295	8.063	1.953	2.225	0.391	14.412 <	34.000 ✓	12.241 <	34.000 ✓	10.406 <	34.000 ✓
296	7.134	2.094	1.290	0.047	13.338 <	34.000 ✓	10.518 <	34.000 ✓	9.275 <	34.000 ✓
297	8.193	1.876	2.311	0.536	14.471 <	34.000 ✓	12.380 <	34.000 ✓	10.605 <	34.000 ✓
298	7.425	2.073	1.770	0.036	13.712 <	34.000 ✓	11.268 <	34.000 ✓	9.534 <	34.000 ✓
299	7.858	2.084	2.363	0.025	14.336 <	34.000 ✓	12.305 <	34.000 ✓	9.968 <	34.000 ✓
300	8.362	2.113	3.027	0.015	15.087 <	34.000 ✓	13.501 <	34.000 ✓	10.490 <	34.000 ✓
301	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
302	9.143	2.131	4.188	0.029	16.209 <	34.000 ✓	15.461 <	34.000 ✓	11.302 <	34.000 ✓
303	9.354	2.112	4.669	0.036	16.474 <	34.000 ✓	16.135 <	34.000 ✓	11.502 <	34.000 ✓
304	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
305	8.840	2.131	3.680	0.020	15.784 <	34.000 ✓	14.650 <	34.000 ✓	10.990 <	34.000 ✓
306	7.287	2.404	0.897	0.047	14.047 <	34.000 ✓	10.587 <	34.000 ✓	9.737 <	34.000 ✓
307	7.128	2.310	0.987	0.075	13.675 <	34.000 ✓	10.425 <	34.000 ✓	9.513 <	34.000 ✓
308	7.040	2.218	1.125	0.104	13.405 <	34.000 ✓	10.383 <	34.000 ✓	9.362 <	34.000 ✓
309	7.456	2.481	0.842	0.047	14.407 <	34.000 ✓	10.778 <	34.000 ✓	9.984 <	34.000 ✓
310	7.089	2.149	1.315	0.131	13.362 <	34.000 ✓	10.552 <	34.000 ✓	9.368 <	34.000 ✓
311	7.572	2.519	0.811	0.048	14.632 <	34.000 ✓	10.902 <	34.000 ✓	10.140 <	34.000 ✓
312	7.269	2.102	1.544	0.151	13.540 <	34.000 ✓	10.916 <	34.000 ✓	9.522 <	34.000 ✓
313	7.512	2.488	0.772	0.048	14.497 <	34.000 ✓	10.771 <	34.000 ✓	10.047 <	34.000 ✓
314	7.544	2.070	1.794	0.161	13.873 <	34.000 ✓	11.408 <	34.000 ✓	9.775 <	34.000 ✓
315	7.412	2.431	0.741	0.046	14.267 <	34.000 ✓	10.584 <	34.000 ✓	9.890 <	34.000 ✓
316	7.900	2.049	2.051	0.217	14.339 <	34.000 ✓	12.001 <	34.000 ✓	10.166 <	34.000 ✓
317	7.231	2.332	0.713	0.046	13.855 <	34.000 ✓	10.276 <	34.000 ✓	9.609 <	34.000 ✓
318	7.374	2.395	0.732	0.041	14.155 <	34.000 ✓	10.501 <	34.000 ✓	9.810 <	34.000 ✓
319	6.964	2.191	0.811	0.044	13.255 <	34.000 ✓	9.966 <	34.000 ✓	9.199 <	34.000 ✓
320	6.929	2.099	1.077	0.039	13.060 <	34.000 ✓	10.106 <	34.000 ✓	9.068 <	34.000 ✓
321	8.386	2.044	2.322	0.323	15.012 <	34.000 ✓	12.752 <	34.000 ✓	10.754 <	34.000 ✓
322	8.435	1.961	2.372	0.455	14.948 <	34.000 ✓	12.769 <	34.000 ✓	10.851 <	34.000 ✓
323	7.127	2.060	1.469	0.031	13.274 <	34.000 ✓	10.656 <	34.000 ✓	9.218 <	34.000 ✓
324	8.510	1.879	2.323	0.603	14.921 <	34.000 ✓	12.712 <	34.000 ✓	10.992 <	34.000 ✓
325	7.517	2.064	1.982	0.022	13.826 <	34.000 ✓	11.563 <	34.000 ✓	9.603 <	34.000 ✓
326	8.034	2.100	2.598	0.012	14.607 <	34.000 ✓	12.731 <	34.000 ✓	10.146 <	34.000 ✓
327	8.585	2.132	3.239	0.013	15.431 <	34.000 ✓	13.956 <	34.000 ✓	10.730 <	34.000 ✓
328	9.150	2.124	4.224	0.029	16.207 <	34.000 ✓	15.497 <	34.000 ✓	11.302 <	34.000 ✓
329	8.867	2.132	3.710	0.020	15.825 <	34.000 ✓	14.709 <	34.000 ✓	11.020 <	34.000 ✓
330	9.341	2.099	4.687	0.036	16.435 <	34.000 ✓	16.127 <	34.000 ✓	11.476 <	34.000 ✓
331	8.954	2.136	3.780	0.022	15.954 <	34.000 ✓	14.870 <	34.000 ✓	11.112 <	34.000 ✓
332	7.606	2.500	0.927	0.051	14.649 <	34.000 ✓	11.034 <	34.000 ✓	10.157 <	34.000 ✓
333	7.517	2.430	1.029	0.071	14.412 <	34.000 ✓	10.976 <	34.000 ✓	10.018 <	34.000 ✓
334	7.378	2.328	1.160	0.102	14.053 <	34.000 ✓	10.866 <	34.000 ✓	9.808 <	34.000 ✓
335	7.332	2.234	1.340	0.133	13.839 <	34.000 ✓	10.905 <	34.000 ✓	9.699 <	34.000 ✓
336	7.632	2.529	0.856	0.049	14.731 <	34.000 ✓	11.017 <	34.000 ✓	10.210 <	34.000 ✓



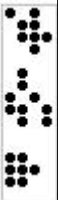
ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
337	7.436	2.166	1.566	0.157	13.877 <	34.000 ✓	11.169 <	34.000 ✓	9.760 <	34.000 ✓
338	7.577	2.513	0.801	0.045	14.629 <	34.000 ✓	10.891 <	34.000 ✓	10.135 <	34.000 ✓
339	7.667	2.123	1.815	0.170	14.130 <	34.000 ✓	11.605 <	34.000 ✓	9.959 <	34.000 ✓
340	7.442	2.456	0.752	0.041	14.347 <	34.000 ✓	10.649 <	34.000 ✓	9.938 <	34.000 ✓
341	7.988	2.097	2.065	0.171	14.538 <	34.000 ✓	12.149 <	34.000 ✓	10.255 <	34.000 ✓
342	7.330	2.389	0.724	0.038	14.085 <	34.000 ✓	10.444 <	34.000 ✓	9.757 <	34.000 ✓
343	8.383	2.083	2.301	0.257	15.069 <	34.000 ✓	12.767 <	34.000 ✓	10.723 <	34.000 ✓
344	7.021	2.246	0.737	0.035	13.424 <	34.000 ✓	10.005 <	34.000 ✓	9.303 <	34.000 ✓
345	6.851	2.126	0.926	0.031	12.993 <	34.000 ✓	9.903 <	34.000 ✓	9.008 <	34.000 ✓
346	6.937	2.063	1.234	0.025	13.013 <	34.000 ✓	10.234 <	34.000 ✓	9.026 <	34.000 ✓
347	8.664	2.044	2.440	0.374	15.400 <	34.000 ✓	13.148 <	34.000 ✓	11.082 <	34.000 ✓
348	8.755	1.970	2.397	0.509	15.409 <	34.000 ✓	13.122 <	34.000 ✓	11.234 <	34.000 ✓
349	7.251	2.053	1.664	0.018	13.436 <	34.000 ✓	10.968 <	34.000 ✓	9.322 <	34.000 ✓
350	8.771	1.887	2.279	0.649	15.298 <	34.000 ✓	12.937 <	34.000 ✓	11.307 <	34.000 ✓
351	7.736	2.084	2.202	0.010	14.165 <	34.000 ✓	12.022 <	34.000 ✓	9.830 <	34.000 ✓
352	8.328	2.131	2.821	0.006	15.068 <	34.000 ✓	13.279 <	34.000 ✓	10.464 <	34.000 ✓
353	8.623	2.136	3.266	0.013	15.490 <	34.000 ✓	14.025 <	34.000 ✓	10.772 <	34.000 ✓
354	9.206	2.121	4.253	0.030	16.283 <	34.000 ✓	15.581 <	34.000 ✓	11.357 <	34.000 ✓
355	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
356	9.384	2.095	4.703	0.037	16.490 <	34.000 ✓	16.182 <	34.000 ✓	11.516 <	34.000 ✓
357	8.786	2.151	3.356	0.015	15.743 <	34.000 ✓	14.293 <	34.000 ✓	10.953 <	34.000 ✓
358	9.099	2.148	3.830	0.024	16.176 <	34.000 ✓	15.078 <	34.000 ✓	11.271 <	34.000 ✓
359	7.781	2.549	0.934	0.055	14.972 <	34.000 ✓	11.265 <	34.000 ✓	10.385 <	34.000 ✓
360	7.997	2.564	1.092	0.068	15.299 <	34.000 ✓	11.653 <	34.000 ✓	10.629 <	34.000 ✓
361	7.768	2.450	1.193	0.096	14.795 <	34.000 ✓	11.411 <	34.000 ✓	10.315 <	34.000 ✓
362	7.657	2.343	1.362	0.130	14.469 <	34.000 ✓	11.363 <	34.000 ✓	10.130 <	34.000 ✓
363	7.681	2.253	1.584	0.160	14.359 <	34.000 ✓	11.518 <	34.000 ✓	10.094 <	34.000 ✓
364	7.678	2.533	0.848	0.047	14.802 <	34.000 ✓	11.059 <	34.000 ✓	10.258 <	34.000 ✓
365	7.854	2.193	1.837	0.177	14.505 <	34.000 ✓	11.885 <	34.000 ✓	10.225 <	34.000 ✓
366	7.505	2.478	0.776	0.039	14.471 <	34.000 ✓	10.759 <	34.000 ✓	10.022 <	34.000 ✓
367	8.123	2.155	2.082	0.177	14.820 <	34.000 ✓	12.360 <	34.000 ✓	10.455 <	34.000 ✓
368	7.306	2.397	0.722	0.033	14.064 <	34.000 ✓	10.425 <	34.000 ✓	9.736 <	34.000 ✓
369	8.457	2.133	2.303	0.194	15.252 <	34.000 ✓	12.892 <	34.000 ✓	10.784 <	34.000 ✓
370	7.082	2.289	0.689	0.028	13.577 <	34.000 ✓	10.060 <	34.000 ✓	9.399 <	34.000 ✓
371	8.794	2.109	2.467	0.293	15.687 <	34.000 ✓	13.371 <	34.000 ✓	11.196 <	34.000 ✓
372	6.862	2.164	0.822	0.024	13.069 <	34.000 ✓	9.848 <	34.000 ✓	9.050 <	34.000 ✓
373	6.853	2.083	1.059	0.019	12.927 <	34.000 ✓	9.995 <	34.000 ✓	8.955 <	34.000 ✓
374	7.084	2.057	1.411	0.014	13.209 <	34.000 ✓	10.552 <	34.000 ✓	9.154 <	34.000 ✓
375	8.989	2.057	2.486	0.417	15.876 <	34.000 ✓	13.532 <	34.000 ✓	11.463 <	34.000 ✓
376	9.019	1.982	2.267	0.542	15.798 <	34.000 ✓	13.268 <	34.000 ✓	11.543 <	34.000 ✓
377	7.507	2.078	1.871	0.007	13.834 <	34.000 ✓	11.456 <	34.000 ✓	9.592 <	34.000 ✓
378	8.983	1.899	2.533	0.669	15.614 <	34.000 ✓	13.415 <	34.000 ✓	11.551 <	34.000 ✓
379	8.088	2.127	2.411	0.002	14.726 <	34.000 ✓	12.626 <	34.000 ✓	10.217 <	34.000 ✓
380	8.495	2.149	2.916	0.008	15.332 <	34.000 ✓	13.560 <	34.000 ✓	10.652 <	34.000 ✓
381	8.674	2.169	3.006	0.011	15.613 <	34.000 ✓	13.848 <	34.000 ✓	10.853 <	34.000 ✓
382	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
383	9.300	2.125	4.283	0.031	16.420 <	34.000 ✓	15.709 <	34.000 ✓	11.457 <	34.000 ✓
384	9.040	2.180	3.441	0.019	16.144 <	34.000 ✓	14.661 <	34.000 ✓	11.239 <	34.000 ✓
385	9.285	2.166	3.892	0.026	16.464 <	34.000 ✓	15.343 <	34.000 ✓	11.477 <	34.000 ✓
386	8.007	2.579	1.045	0.066	15.336 <	34.000 ✓	11.631 <	34.000 ✓	10.652 <	34.000 ✓
387	7.830	2.556	0.920	0.054	15.052 <	34.000 ✓	11.306 <	34.000 ✓	10.440 <	34.000 ✓
388	8.117	2.557	1.210	0.087	15.455 <	34.000 ✓	11.885 <	34.000 ✓	10.761 <	34.000 ✓
389	8.119	2.572	1.171	0.079	15.482 <	34.000 ✓	11.862 <	34.000 ✓	10.770 <	34.000 ✓
390	8.021	2.461	1.377	0.122	15.168 <	34.000 ✓	11.859 <	34.000 ✓	10.604 <	34.000 ✓
391	7.977	2.357	1.591	0.156	14.939 <	34.000 ✓	11.926 <	34.000 ✓	10.490 <	34.000 ✓
392	8.097	2.281	1.851	0.180	14.987 <	34.000 ✓	12.230 <	34.000 ✓	10.559 <	34.000 ✓
393	7.635	2.506	0.823	0.042	14.699 <	34.000 ✓	10.964 <	34.000 ✓	10.183 <	34.000 ✓
394	8.322	2.231	2.105	0.184	15.221 <	34.000 ✓	12.658 <	34.000 ✓	10.738 <	34.000 ✓
395	7.358	2.415	0.739	0.032	14.165 <	34.000 ✓	10.511 <	34.000 ✓	9.804 <	34.000 ✓
396	8.586	2.195	2.311	0.168	15.532 <	34.000 ✓	13.091 <	34.000 ✓	10.949 <	34.000 ✓
397	7.105	2.310	0.682	0.024	13.643 <	34.000 ✓	10.097 <	34.000 ✓	9.439 <	34.000 ✓
398	8.892	2.170	2.471	0.215	15.920 <	34.000 ✓	13.533 <	34.000 ✓	11.277 <	34.000 ✓
399	6.903	2.199	0.751	0.019	13.182 <	34.000 ✓	9.852 <	34.000 ✓	9.120 <	34.000 ✓
400	9.149	2.134	2.528	0.318	16.223 <	34.000 ✓	13.811 <	34.000 ✓	11.601 <	34.000 ✓
401	6.848	2.112	0.931	0.014	12.966 <	34.000 ✓	9.891 <	34.000 ✓	8.973 <	34.000 ✓
402	7.015	2.075	1.218	0.010	13.141 <	34.000 ✓	10.308 <	34.000 ✓	9.100 <	34.000 ✓
403	7.376	2.085	1.608	0.006	13.662 <	34.000 ✓	11.069 <	34.000 ✓	9.467 <	34.000 ✓
404	9.218	2.071	2.415	0.437	16.218 <	34.000 ✓	13.703 <	34.000 ✓	11.725 <	34.000 ✓
405	9.218	1.996	2.435	0.550	16.099 <	34.000 ✓	13.649 <	34.000 ✓	11.764 <	34.000 ✓
406	7.911	2.128	2.084	0.001	14.480 <	34.000 ✓	12.123 <	34.000 ✓	10.040 <	34.000 ✓
407	9.172	1.917	2.794	0.668	15.908 <	34.000 ✓	13.883 <	34.000 ✓	11.757 <	34.000 ✓
408	8.502	2.179	2.604	0.006	15.389 <	34.000 ✓	13.285 <	34.000 ✓	10.687 <	34.000 ✓
409	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
410	9.092	2.219	3.177	0.016	16.279 <	34.000 ✓	14.488 <	34.000 ✓	11.327 <	34.000 ✓
411	9.350	2.216	3.557	0.023	16.635 <	34.000 ✓	15.123 <	34.000 ✓	11.588 <	34.000 ✓
412	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
413	8.012	2.577	1.013	0.067	15.339 <	34.000 ✓	11.601 <	34.000 ✓	10.655 <	34.000 ✓
414	8.228	2.596	1.179	0.083	15.673 <	34.000 ✓	12.003 <	34.000 ✓	10.907 <	34.000 ✓
415	7.801	2.533	0.891	0.050	14.975 <	34.000 ✓	11.225 <	34.000 ✓	10.384 <	34.000 ✓
416	8.351	2.583	1.336	0.101	15.824 <	34.000 ✓	12.270 <	34.000 ✓	11.035 <	34.000 ✓
417	8.175	2.575	1.210	0.084	15.566 <	34.000 ✓	11.960 <	34.000 ✓	10.835 <	34.000 ✓
418	8.283	2.466	1.581	0.145	15.542 <	34.000 ✓	12.330 <	34.000 ✓	10.894 <	34.000 ✓
419	8.355	2.379	1.841	0.175	15.502 <	34.000 ✓	12.574 <	34.000 ✓	10.908 <	34.000 ✓
420	8.569	2.321	2.118	0.187	15.710 <	34.000 ✓	13.008 <	34.000 ✓	11.077 <	34.000 ✓



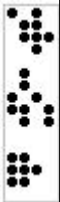
ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
421	7.500	2.447	0.780	0.034	14.415 <	34.000 ✓	10.727 <	34.000 ✓	9.981 <	34.000 ✓
422	7.673	2.489	0.833	0.041	14.726 <	34.000 ✓	10.996 <	34.000 ✓	10.204 <	34.000 ✓
423	8.783	2.273	2.327	0.170	15.932 <	34.000 ✓	13.383 <	34.000 ✓	11.225 <	34.000 ✓
424	7.164	2.329	0.694	0.023	13.757 <	34.000 ✓	10.187 <	34.000 ✓	9.517 <	34.000 ✓
425	9.008	2.234	2.468	0.142	16.186 <	34.000 ✓	13.710 <	34.000 ✓	11.384 <	34.000 ✓
426	6.948	2.224	0.701	0.016	13.286 <	34.000 ✓	9.874 <	34.000 ✓	9.188 <	34.000 ✓
427	9.267	2.204	2.542	0.224	16.500 <	34.000 ✓	14.013 <	34.000 ✓	11.695 <	34.000 ✓
428	6.881	2.142	0.839	0.010	13.061 <	34.000 ✓	9.862 <	34.000 ✓	9.034 <	34.000 ✓
429	9.352	2.140	2.462	0.341	16.516 <	34.000 ✓	13.954 <	34.000 ✓	11.832 <	34.000 ✓
430	7.019	2.102	1.073	0.009	13.189 <	34.000 ✓	10.193 <	34.000 ✓	9.130 <	34.000 ✓
431	7.341	2.106	1.404	0.006	13.647 <	34.000 ✓	10.851 <	34.000 ✓	9.453 <	34.000 ✓
432	7.829	2.143	1.820	0.003	14.389 <	34.000 ✓	11.792 <	34.000 ✓	9.975 <	34.000 ✓
433	9.399	2.088	2.273	0.428	16.499 <	34.000 ✓	13.759 <	34.000 ✓	11.915 <	34.000 ✓
434	9.389	2.013	2.673	0.542	16.365 <	34.000 ✓	14.075 <	34.000 ✓	11.944 <	34.000 ✓
435	8.416	2.196	2.297	0.007	15.296 <	34.000 ✓	12.909 <	34.000 ✓	10.619 <	34.000 ✓
436	9.350	1.941	3.056	0.650	16.196 <	34.000 ✓	14.347 <	34.000 ✓	11.941 <	34.000 ✓
437	8.953	2.237	2.786	0.011	16.114 <	34.000 ✓	13.976 <	34.000 ✓	11.202 <	34.000 ✓
438	9.386	2.258	3.251	0.019	16.753 <	34.000 ✓	14.895 <	34.000 ✓	11.663 <	34.000 ✓
439	9.135	2.324	2.350	0.013	16.507 <	34.000 ✓	13.808 <	34.000 ✓	11.471 <	34.000 ✓
440	7.956	2.550	0.968	0.062	15.219 <	34.000 ✓	11.474 <	34.000 ✓	10.569 <	34.000 ✓
441	8.189	2.588	1.122	0.084	15.605 <	34.000 ✓	11.898 <	34.000 ✓	10.860 <	34.000 ✓
442	8.426	2.601	1.326	0.103	15.958 <	34.000 ✓	12.353 <	34.000 ✓	11.131 <	34.000 ✓
443	7.750	2.499	0.868	0.047	14.849 <	34.000 ✓	11.117 <	34.000 ✓	10.296 <	34.000 ✓
444	8.237	2.578	1.253	0.090	15.658 <	34.000 ✓	12.069 <	34.000 ✓	10.906 <	34.000 ✓
445	8.462	2.585	1.419	0.111	15.983 <	34.000 ✓	12.467 <	34.000 ✓	11.159 <	34.000 ✓
446	8.530	2.557	1.547	0.129	16.033 <	34.000 ✓	12.634 <	34.000 ✓	11.216 <	34.000 ✓
447	8.591	2.474	1.805	0.162	15.986 <	34.000 ✓	12.870 <	34.000 ✓	11.227 <	34.000 ✓
448	8.783	2.411	2.088	0.179	16.154 <	34.000 ✓	13.282 <	34.000 ✓	11.372 <	34.000 ✓
449	9.094	2.376	2.357	0.162	16.532 <	34.000 ✓	13.826 <	34.000 ✓	11.632 <	34.000 ✓
450	7.280	2.356	0.724	0.026	13.961 <	34.000 ✓	10.360 <	34.000 ✓	9.662 <	34.000 ✓
451	9.155	2.307	2.459	0.129	16.510 <	34.000 ✓	13.922 <	34.000 ✓	11.592 <	34.000 ✓
452	7.014	2.247	0.672	0.015	13.415 <	34.000 ✓	9.933 <	34.000 ✓	9.276 <	34.000 ✓
453	9.367	2.271	2.539	0.137	16.747 <	34.000 ✓	14.177 <	34.000 ✓	11.775 <	34.000 ✓
454	6.932	2.169	0.772	0.007	13.175 <	34.000 ✓	9.873 <	34.000 ✓	9.108 <	34.000 ✓
455	9.493	2.225	2.503	0.220	16.851 <	34.000 ✓	14.222 <	34.000 ✓	11.939 <	34.000 ✓
456	7.058	2.131	0.961	0.007	13.291 <	34.000 ✓	10.150 <	34.000 ✓	9.196 <	34.000 ✓
457	9.522	2.227	2.470	0.217	16.894 <	34.000 ✓	14.219 <	34.000 ✓	11.966 <	34.000 ✓
458	9.559	2.169	2.185	0.301	16.854 <	34.000 ✓	13.914 <	34.000 ✓	12.029 <	34.000 ✓
459	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
460	7.380	2.136	1.247	0.006	13.750 <	34.000 ✓	10.763 <	34.000 ✓	9.522 <	34.000 ✓
461	7.834	2.171	1.609	0.006	14.441 <	34.000 ✓	11.613 <	34.000 ✓	10.011 <	34.000 ✓
462	8.401	2.223	2.040	0.008	15.318 <	34.000 ✓	12.664 <	34.000 ✓	10.632 <	34.000 ✓
463	9.555	2.104	2.477	0.415	16.743 <	34.000 ✓	14.136 <	34.000 ✓	12.074 <	34.000 ✓
464	9.538	2.032	2.911	0.523	16.604 <	34.000 ✓	14.481 <	34.000 ✓	12.093 <	34.000 ✓
465	8.961	2.272	2.501	0.012	16.181 <	34.000 ✓	13.734 <	34.000 ✓	11.245 <	34.000 ✓
466	9.513	1.968	3.310	0.619	16.466 <	34.000 ✓	14.791 <	34.000 ✓	12.099 <	34.000 ✓
467	9.398	2.295	2.946	0.016	16.830 <	34.000 ✓	14.640 <	34.000 ✓	11.709 <	34.000 ✓
468	9.051	2.347	2.018	0.014	16.426 <	34.000 ✓	13.416 <	34.000 ✓	11.411 <	34.000 ✓
469	9.565	2.390	2.426	0.016	17.215 <	34.000 ✓	14.382 <	34.000 ✓	11.971 <	34.000 ✓
470	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
471	8.104	2.555	1.063	0.080	15.433 <	34.000 ✓	11.722 <	34.000 ✓	10.739 <	34.000 ✓
472	7.892	2.513	0.938	0.059	15.070 <	34.000 ✓	11.344 <	34.000 ✓	10.465 <	34.000 ✓
473	7.957	2.518	0.973	0.066	15.169 <	34.000 ✓	11.449 <	34.000 ✓	10.541 <	34.000 ✓
474	8.353	2.589	1.245	0.106	15.837 <	34.000 ✓	12.187 <	34.000 ✓	11.048 <	34.000 ✓
475	8.600	2.595	1.479	0.130	16.192 <	34.000 ✓	12.674 <	34.000 ✓	11.325 <	34.000 ✓
476	7.421	2.380	0.770	0.033	14.197 <	34.000 ✓	10.570 <	34.000 ✓	9.834 <	34.000 ✓
477	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
478	8.761	2.551	1.742	0.142	16.348 <	34.000 ✓	13.054 <	34.000 ✓	11.454 <	34.000 ✓
479	8.956	2.496	2.028	0.162	16.532 <	34.000 ✓	13.480 <	34.000 ✓	11.614 <	34.000 ✓
480	9.214	2.443	2.307	0.146	16.808 <	34.000 ✓	13.964 <	34.000 ✓	11.802 <	34.000 ✓
481	9.335	2.396	2.429	0.111	16.902 <	34.000 ✓	14.160 <	34.000 ✓	11.842 <	34.000 ✓
482	7.114	2.270	0.675	0.017	13.591 <	34.000 ✓	10.059 <	34.000 ✓	9.401 <	34.000 ✓
483	9.459	2.337	2.518	0.075	16.982 <	34.000 ✓	14.314 <	34.000 ✓	11.871 <	34.000 ✓
484	7.002	2.193	0.728	0.007	13.311 <	34.000 ✓	9.922 <	34.000 ✓	9.202 <	34.000 ✓
485	9.578	2.291	2.516	0.126	17.075 <	34.000 ✓	14.385 <	34.000 ✓	11.995 <	34.000 ✓
486	7.110	2.157	0.876	0.005	13.406 <	34.000 ✓	10.144 <	34.000 ✓	9.273 <	34.000 ✓
487	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
488	7.442	2.169	1.114	0.006	13.889 <	34.000 ✓	10.725 <	34.000 ✓	9.616 <	34.000 ✓
489	9.606	2.229	2.245	0.196	17.014 <	34.000 ✓	14.080 <	34.000 ✓	12.031 <	34.000 ✓
490	9.599	2.291	2.489	0.123	17.105 <	34.000 ✓	14.379 <	34.000 ✓	12.013 <	34.000 ✓
491	9.662	2.179	2.373	0.280	17.013 <	34.000 ✓	14.214 <	34.000 ✓	12.121 <	34.000 ✓
492	7.920	2.210	1.444	0.008	14.624 <	34.000 ✓	11.574 <	34.000 ✓	10.138 <	34.000 ✓
493	7.903	2.224	1.325	0.009	14.624 <	34.000 ✓	11.452 <	34.000 ✓	10.137 <	34.000 ✓
494	8.432	2.256	1.818	0.010	15.414 <	34.000 ✓	12.506 <	34.000 ✓	10.698 <	34.000 ✓
495	9.722	2.123	2.764	0.392	17.008 <	34.000 ✓	14.609 <	34.000 ✓	12.237 <	34.000 ✓
496	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
497	9.660	2.051	3.139	0.496	16.806 <	34.000 ✓	14.850 <	34.000 ✓	12.208 <	34.000 ✓
498	9.465	2.341	2.673	0.016	16.997 <	34.000 ✓	14.480 <	34.000 ✓	11.822 <	34.000 ✓
499	9.644	1.994	3.544	0.578	16.693 <	34.000 ✓	15.183 <	34.000 ✓	12.217 <	34.000 ✓
500	9.162	2.394	1.829	0.014	16.657 <	34.000 ✓	13.384 <	34.000 ✓	11.570 <	34.000 ✓
501	9.631	2.432	2.196	0.017	17.375 <	34.000 ✓	14.259 <	34.000 ✓	12.080 <	34.000 ✓
502	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
503	7.927	2.495	0.980	0.070	15.089 <	34.000 ✓	11.401 <	34.000 ✓	10.491 <	34.000 ✓
504	8.208	2.550	1.150	0.099	15.572 <	34.000 ✓	11.908 <	34.000 ✓	10.858 <	34.000 ✓



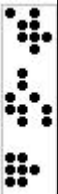
ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
505	7.547	2.396	0.822	0.043	14.399 <	34.000 ✓	10.764 <	34.000 ✓	9.985 <	34.000 ✓
506	8.528	2.589	1.379	0.135	16.081 <	34.000 ✓	12.496 <	34.000 ✓	11.252 <	34.000 ✓
507	8.808	2.592	1.646	0.166	16.478 <	34.000 ✓	13.046 <	34.000 ✓	11.566 <	34.000 ✓
508	7.233	2.292	0.707	0.023	13.792 <	34.000 ✓	10.232 <	34.000 ✓	9.547 <	34.000 ✓
509	9.071	2.566	1.941	0.178	16.806 <	34.000 ✓	13.579 <	34.000 ✓	11.815 <	34.000 ✓
510	9.313	2.505	2.245	0.128	17.047 <	34.000 ✓	14.064 <	34.000 ✓	11.947 <	34.000 ✓
511	9.420	2.591	2.125	0.218	17.334 <	34.000 ✓	14.136 <	34.000 ✓	12.229 <	34.000 ✓
512	9.441	2.465	2.379	0.095	17.161 <	34.000 ✓	14.284 <	34.000 ✓	12.000 <	34.000 ✓
513	9.534	2.410	2.469	0.058	17.203 <	34.000 ✓	14.412 <	34.000 ✓	12.002 <	34.000 ✓
514	7.097	2.216	0.702	0.009	13.481 <	34.000 ✓	10.015 <	34.000 ✓	9.321 <	34.000 ✓
515	9.603	2.315	2.515	0.092	17.148 <	34.000 ✓	14.433 <	34.000 ✓	12.010 <	34.000 ✓
516	9.646	2.366	2.501	0.019	17.291 <	34.000 ✓	14.513 <	34.000 ✓	12.031 <	34.000 ✓
517	7.181	2.182	0.815	0.003	13.545 <	34.000 ✓	10.178 <	34.000 ✓	9.366 <	34.000 ✓
518	7.488	2.195	1.013	0.006	13.994 <	34.000 ✓	10.696 <	34.000 ✓	9.689 <	34.000 ✓
519	8.018	2.250	1.297	0.010	14.825 <	34.000 ✓	11.565 <	34.000 ✓	10.278 <	34.000 ✓
520	9.621	2.282	2.289	0.102	17.119 <	34.000 ✓	14.191 <	34.000 ✓	12.004 <	34.000 ✓
521	9.639	2.227	2.188	0.174	17.057 <	34.000 ✓	14.054 <	34.000 ✓	12.040 <	34.000 ✓
522	9.738	2.185	2.561	0.262	17.129 <	34.000 ✓	14.484 <	34.000 ✓	12.185 <	34.000 ✓
523	8.544	2.302	1.642	0.012	15.644 <	34.000 ✓	12.487 <	34.000 ✓	10.857 <	34.000 ✓
524	8.002	2.239	1.355	0.010	14.786 <	34.000 ✓	11.596 <	34.000 ✓	10.251 <	34.000 ✓
525	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
526	9.799	2.133	2.967	0.371	17.131 <	34.000 ✓	14.898 <	34.000 ✓	12.303 <	34.000 ✓
527	9.748	2.069	3.346	0.462	16.958 <	34.000 ✓	15.163 <	34.000 ✓	12.279 <	34.000 ✓
528	9.719	2.013	3.742	0.538	16.828 <	34.000 ✓	15.474 <	34.000 ✓	12.270 <	34.000 ✓
529	9.297	2.443	1.669	0.015	16.924 <	34.000 ✓	13.408 <	34.000 ✓	11.754 <	34.000 ✓
530	9.746	2.481	1.999	0.017	17.614 <	34.000 ✓	14.226 <	34.000 ✓	12.244 <	34.000 ✓
531	9.287	2.433	1.732	0.014	16.895 <	34.000 ✓	13.452 <	34.000 ✓	11.734 <	34.000 ✓
532	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
533	7.649	2.401	0.875	0.055	14.551 <	34.000 ✓	10.926 <	34.000 ✓	10.105 <	34.000 ✓
534	7.997	2.486	1.044	0.087	15.174 <	34.000 ✓	11.528 <	34.000 ✓	10.570 <	34.000 ✓
535	8.374	2.553	1.263	0.127	15.808 <	34.000 ✓	12.190 <	34.000 ✓	11.053 <	34.000 ✓
536	7.349	2.308	0.746	0.030	13.981 <	34.000 ✓	10.403 <	34.000 ✓	9.687 <	34.000 ✓
537	8.738	2.595	1.521	0.170	16.384 <	34.000 ✓	12.853 <	34.000 ✓	11.503 <	34.000 ✓
538	9.075	2.605	1.815	0.209	16.873 <	34.000 ✓	13.495 <	34.000 ✓	11.889 <	34.000 ✓
539	7.208	2.238	0.691	0.013	13.672 <	34.000 ✓	10.137 <	34.000 ✓	9.459 <	34.000 ✓
540	9.392	2.590	2.111	0.215	17.293 <	34.000 ✓	14.094 <	34.000 ✓	12.197 <	34.000 ✓
541	9.443	2.615	2.085	0.243	17.405 <	34.000 ✓	14.143 <	34.000 ✓	12.302 <	34.000 ✓
542	9.518	2.532	2.301	0.172	17.376 <	34.000 ✓	14.351 <	34.000 ✓	12.222 <	34.000 ✓
543	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
544	9.543	2.588	2.193	0.238	17.501 <	34.000 ✓	14.324 <	34.000 ✓	12.369 <	34.000 ✓
545	9.612	2.471	2.421	0.116	17.411 <	34.000 ✓	14.504 <	34.000 ✓	12.199 <	34.000 ✓
546	9.675	2.416	2.469	0.053	17.411 <	34.000 ✓	14.561 <	34.000 ✓	12.144 <	34.000 ✓
547	7.277	2.208	0.775	0.001	13.721 <	34.000 ✓	10.260 <	34.000 ✓	9.486 <	34.000 ✓
548	9.617	2.331	2.310	0.030	17.193 <	34.000 ✓	14.257 <	34.000 ✓	11.977 <	34.000 ✓
549	7.566	2.221	0.936	0.006	14.146 <	34.000 ✓	10.723 <	34.000 ✓	9.793 <	34.000 ✓
550	8.065	2.274	1.177	0.010	14.928 <	34.000 ✓	11.516 <	34.000 ✓	10.348 <	34.000 ✓
551	8.663	2.346	1.490	0.012	15.882 <	34.000 ✓	12.499 <	34.000 ✓	11.022 <	34.000 ✓
552	9.584	2.267	2.004	0.082	17.044 <	34.000 ✓	13.855 <	34.000 ✓	11.932 <	34.000 ✓
553	9.663	2.225	2.346	0.157	17.088 <	34.000 ✓	14.234 <	34.000 ✓	12.044 <	34.000 ✓
554	9.787	2.190	2.741	0.247	17.205 <	34.000 ✓	14.718 <	34.000 ✓	12.224 <	34.000 ✓
555	8.654	2.337	1.549	0.012	15.856 <	34.000 ✓	12.540 <	34.000 ✓	11.004 <	34.000 ✓
556	9.031	2.394	1.659	0.013	16.474 <	34.000 ✓	13.084 <	34.000 ✓	11.439 <	34.000 ✓
557	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
558	9.819	2.136	3.057	0.360	17.164 <	34.000 ✓	15.012 <	34.000 ✓	12.315 <	34.000 ✓
559	9.825	2.130	3.222	0.358	17.162 <	34.000 ✓	15.176 <	34.000 ✓	12.312 <	34.000 ✓
560	9.776	2.078	3.511	0.429	17.011 <	34.000 ✓	15.365 <	34.000 ✓	12.283 <	34.000 ✓
561	9.735	2.023	3.901	0.498	16.866 <	34.000 ✓	15.659 <	34.000 ✓	12.256 <	34.000 ✓
562	9.414	2.484	1.531	0.015	17.155 <	34.000 ✓	13.429 <	34.000 ✓	11.914 <	34.000 ✓
563	9.895	2.534	1.834	0.018	17.907 <	34.000 ✓	14.263 <	34.000 ✓	12.447 <	34.000 ✓
564	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
565	7.454	2.318	0.789	0.040	14.144 <	34.000 ✓	10.561 <	34.000 ✓	9.812 <	34.000 ✓
566	7.745	2.402	0.934	0.070	14.685 <	34.000 ✓	11.080 <	34.000 ✓	10.217 <	34.000 ✓
567	8.146	2.491	1.134	0.110	15.390 <	34.000 ✓	11.771 <	34.000 ✓	10.747 <	34.000 ✓
568	8.569	2.567	1.370	0.155	16.104 <	34.000 ✓	12.506 <	34.000 ✓	11.291 <	34.000 ✓
569	7.322	2.256	0.697	0.019	13.860 <	34.000 ✓	10.274 <	34.000 ✓	9.596 <	34.000 ✓
570	8.966	2.608	1.656	0.210	16.726 <	34.000 ✓	13.230 <	34.000 ✓	11.784 <	34.000 ✓
571	9.346	2.625	1.963	0.254	17.285 <	34.000 ✓	13.934 <	34.000 ✓	12.225 <	34.000 ✓
572	7.395	2.233	0.752	0.004	13.925 <	34.000 ✓	10.380 <	34.000 ✓	9.631 <	34.000 ✓
573	9.461	2.618	2.036	0.277	17.434 <	34.000 ✓	14.115 <	34.000 ✓	12.356 <	34.000 ✓
574	9.633	2.528	2.340	0.192	17.531 <	34.000 ✓	14.501 <	34.000 ✓	12.353 <	34.000 ✓
575	9.602	2.574	2.228	0.259	17.561 <	34.000 ✓	14.404 <	34.000 ✓	12.435 <	34.000 ✓
576	9.687	2.461	2.420	0.120	17.499 <	34.000 ✓	14.568 <	34.000 ✓	12.267 <	34.000 ✓
577	9.589	2.377	2.303	0.067	17.228 <	34.000 ✓	14.270 <	34.000 ✓	12.033 <	34.000 ✓
578	7.680	2.250	0.883	0.005	14.351 <	34.000 ✓	10.813 <	34.000 ✓	9.934 <	34.000 ✓
579	9.513	2.303	2.042	0.043	17.004 <	34.000 ✓	13.859 <	34.000 ✓	11.860 <	34.000 ✓
580	8.151	2.302	1.085	0.010	15.095 <	34.000 ✓	11.539 <	34.000 ✓	10.464 <	34.000 ✓
581	8.733	2.376	1.354	0.013	16.028 <	34.000 ✓	12.464 <	34.000 ✓	11.122 <	34.000 ✓
582	9.555	2.256	2.132	0.066	16.985 <	34.000 ✓	13.942 <	34.000 ✓	11.876 <	34.000 ✓
583	9.688	2.225	2.502	0.144	17.122 <	34.000 ✓	14.415 <	34.000 ✓	12.057 <	34.000 ✓
584	9.796	2.189	2.898	0.235	17.216 <	34.000 ✓	14.883 <	34.000 ✓	12.220 <	34.000 ✓
585	9.823	2.138	3.179	0.341	17.173 <	34.000 ✓	15.140 <	34.000 ✓	12.303 <	34.000 ✓
586	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
587	9.791	2.128	3.347	0.330	17.113 <	34.000 ✓	15.267 <	34.000 ✓	12.250 <	34.000 ✓
588	9.767	2.082	3.644	0.397	17.005 <	34.000 ✓	15.494 <	34.000 ✓	12.247 <	34.000 ✓



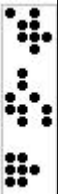
ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
589	9.666	2.023	4.056	0.453	16.769	< 34.000 ✓	15.745	< 34.000 ✓	12.142	< 34.000 ✓
590	9.597	2.536	1.430	0.016	17.494	< 34.000 ✓	13.564	< 34.000 ✓	12.149	< 34.000 ✓
591	10.061	2.588	1.697	0.018	18.226	< 34.000 ✓	14.346	< 34.000 ✓	12.667	< 34.000 ✓
592	9.749	2.563	1.466	0.016	17.748	< 34.000 ✓	13.777	< 34.000 ✓	12.327	< 34.000 ✓
593	7.425	2.270	0.729	0.026	14.027	< 34.000 ✓	10.424	< 34.000 ✓	9.721	< 34.000 ✓
594	7.554	2.325	0.835	0.053	14.296	< 34.000 ✓	10.714	< 34.000 ✓	9.932	< 34.000 ✓
595	7.874	2.409	1.001	0.089	14.879	< 34.000 ✓	11.285	< 34.000 ✓	10.373	< 34.000 ✓
596	8.339	2.511	1.222	0.133	15.692	< 34.000 ✓	12.072	< 34.000 ✓	10.983	< 34.000 ✓
597	8.793	2.585	1.484	0.191	16.446	< 34.000 ✓	12.862	< 34.000 ✓	11.569	< 34.000 ✓
598	8.498	2.539	1.294	0.150	15.960	< 34.000 ✓	12.332	< 34.000 ✓	11.187	< 34.000 ✓
599	7.513	2.255	0.741	0.008	14.126	< 34.000 ✓	10.509	< 34.000 ✓	9.776	< 34.000 ✓
600	9.166	2.620	1.765	0.248	17.024	< 34.000 ✓	13.551	< 34.000 ✓	12.033	< 34.000 ✓
601	7.819	2.280	0.851	0.003	14.594	< 34.000 ✓	10.950	< 34.000 ✓	10.102	< 34.000 ✓
602	9.473	2.596	2.062	0.296	17.416	< 34.000 ✓	14.131	< 34.000 ✓	12.365	< 34.000 ✓
603	9.262	2.613	1.826	0.273	17.149	< 34.000 ✓	13.702	< 34.000 ✓	12.149	< 34.000 ✓
604	9.656	2.514	2.327	0.202	17.541	< 34.000 ✓	14.496	< 34.000 ✓	12.372	< 34.000 ✓
605	9.593	2.555	2.217	0.271	17.518	< 34.000 ✓	14.365	< 34.000 ✓	12.418	< 34.000 ✓
606	9.527	2.417	2.259	0.143	17.205	< 34.000 ✓	14.203	< 34.000 ✓	12.087	< 34.000 ✓
607	9.634	2.505	2.311	0.204	17.496	< 34.000 ✓	14.450	< 34.000 ✓	12.344	< 34.000 ✓
608	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
609	9.423	2.337	2.059	0.080	16.933	< 34.000 ✓	13.820	< 34.000 ✓	11.841	< 34.000 ✓
610	8.278	2.335	1.022	0.010	15.326	< 34.000 ✓	11.635	< 34.000 ✓	10.623	< 34.000 ✓
611	9.430	2.282	1.922	0.046	16.854	< 34.000 ✓	13.635	< 34.000 ✓	11.758	< 34.000 ✓
612	8.853	2.413	1.254	0.013	16.254	< 34.000 ✓	12.519	< 34.000 ✓	11.279	< 34.000 ✓
613	9.552	2.250	2.262	0.055	16.973	< 34.000 ✓	14.064	< 34.000 ✓	11.857	< 34.000 ✓
614	9.697	2.223	2.641	0.135	17.133	< 34.000 ✓	14.561	< 34.000 ✓	12.055	< 34.000 ✓
615	9.742	2.181	3.015	0.216	17.128	< 34.000 ✓	14.938	< 34.000 ✓	12.139	< 34.000 ✓
616	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
617	9.782	2.186	2.952	0.227	17.193	< 34.000 ✓	14.920	< 34.000 ✓	12.196	< 34.000 ✓
618	9.757	2.135	3.383	0.295	17.075	< 34.000 ✓	15.275	< 34.000 ✓	12.186	< 34.000 ✓
619	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
620	9.686	2.078	3.886	0.361	16.885	< 34.000 ✓	15.649	< 34.000 ✓	12.124	< 34.000 ✓
621	9.578	2.021	4.713	0.407	16.643	< 34.000 ✓	16.312	< 34.000 ✓	12.006	< 34.000 ✓
622	9.761	2.582	1.349	0.016	17.796	< 34.000 ✓	13.692	< 34.000 ✓	12.358	< 34.000 ✓
623	10.261	2.646	1.592	0.019	18.600	< 34.000 ✓	14.500	< 34.000 ✓	12.926	< 34.000 ✓
624	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
625	9.917	2.609	1.383	0.016	18.059	< 34.000 ✓	13.910	< 34.000 ✓	12.543	< 34.000 ✓
626	7.615	2.271	0.735	0.014	14.294	< 34.000 ✓	10.621	< 34.000 ✓	9.899	< 34.000 ✓
627	7.521	2.280	0.764	0.036	14.177	< 34.000 ✓	10.565	< 34.000 ✓	9.837	< 34.000 ✓
628	7.668	2.333	0.885	0.068	14.468	< 34.000 ✓	10.886	< 34.000 ✓	10.069	< 34.000 ✓
629	8.035	2.425	1.070	0.110	15.129	< 34.000 ✓	11.530	< 34.000 ✓	10.570	< 34.000 ✓
630	8.949	2.594	1.562	0.221	16.678	< 34.000 ✓	13.104	< 34.000 ✓	11.763	< 34.000 ✓
631	8.580	2.546	1.331	0.163	16.085	< 34.000 ✓	12.457	< 34.000 ✓	11.289	< 34.000 ✓
632	7.958	2.308	0.831	0.003	14.834	< 34.000 ✓	11.097	< 34.000 ✓	10.269	< 34.000 ✓
633	8.437	2.372	0.981	0.009	15.608	< 34.000 ✓	11.791	< 34.000 ✓	10.818	< 34.000 ✓
634	9.318	2.544	2.013	0.304	17.116	< 34.000 ✓	13.875	< 34.000 ✓	12.166	< 34.000 ✓
635	9.562	2.570	2.172	0.295	17.499	< 34.000 ✓	14.304	< 34.000 ✓	12.428	< 34.000 ✓
636	9.242	2.588	1.839	0.289	17.081	< 34.000 ✓	13.670	< 34.000 ✓	12.120	< 34.000 ✓
637	9.023	2.587	1.607	0.245	16.771	< 34.000 ✓	13.217	< 34.000 ✓	11.855	< 34.000 ✓
638	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
639	9.515	2.533	2.181	0.271	17.373	< 34.000 ✓	14.228	< 34.000 ✓	12.318	< 34.000 ✓
640	9.309	2.367	2.042	0.151	16.820	< 34.000 ✓	13.718	< 34.000 ✓	11.827	< 34.000 ✓
641	9.426	2.451	2.182	0.210	17.117	< 34.000 ✓	14.058	< 34.000 ✓	12.087	< 34.000 ✓
642	9.288	2.306	1.760	0.089	16.694	< 34.000 ✓	13.355	< 34.000 ✓	11.684	< 34.000 ✓
643	8.997	2.452	1.181	0.013	16.518	< 34.000 ✓	12.629	< 34.000 ✓	11.461	< 34.000 ✓
644	9.392	2.271	2.023	0.049	16.782	< 34.000 ✓	13.686	< 34.000 ✓	11.712	< 34.000 ✓
645	9.552	2.247	2.379	0.065	16.968	< 34.000 ✓	14.178	< 34.000 ✓	11.864	< 34.000 ✓
646	9.687	2.221	2.692	0.131	17.116	< 34.000 ✓	14.600	< 34.000 ✓	12.039	< 34.000 ✓
647	9.664	2.171	3.097	0.196	17.004	< 34.000 ✓	14.932	< 34.000 ✓	12.031	< 34.000 ✓
648	9.632	2.211	2.750	0.123	17.022	< 34.000 ✓	14.593	< 34.000 ✓	11.966	< 34.000 ✓
649	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
650	9.702	2.131	3.585	0.271	16.993	< 34.000 ✓	15.418	< 34.000 ✓	12.105	< 34.000 ✓
651	9.598	2.074	4.542	0.325	16.756	< 34.000 ✓	16.214	< 34.000 ✓	11.997	< 34.000 ✓
652	9.491	2.021	5.364	0.365	16.520	< 34.000 ✓	16.875	< 34.000 ✓	11.876	< 34.000 ✓
653	9.897	2.617	1.285	0.016	18.042	< 34.000 ✓	13.799	< 34.000 ✓	12.529	< 34.000 ✓
654	10.446	2.697	1.505	0.019	18.941	< 34.000 ✓	14.649	< 34.000 ✓	13.163	< 34.000 ✓
655	10.244	2.690	1.264	0.015	18.645	< 34.000 ✓	14.197	< 34.000 ✓	12.949	< 34.000 ✓
656	8.055	2.326	0.816	0.004	15.000	< 34.000 ✓	11.197	< 34.000 ✓	10.385	< 34.000 ✓
657	7.698	2.282	0.734	0.021	14.428	< 34.000 ✓	10.714	< 34.000 ✓	10.001	< 34.000 ✓
658	7.619	2.289	0.800	0.047	14.329	< 34.000 ✓	10.708	< 34.000 ✓	9.955	< 34.000 ✓
659	7.790	2.345	0.934	0.083	14.658	< 34.000 ✓	11.070	< 34.000 ✓	10.219	< 34.000 ✓
660	8.179	2.439	1.128	0.130	15.352	< 34.000 ✓	11.745	< 34.000 ✓	10.748	< 34.000 ✓
661	8.725	2.555	1.398	0.190	16.302	< 34.000 ✓	12.678	< 34.000 ✓	11.470	< 34.000 ✓
662	8.786	2.557	1.428	0.203	16.393	< 34.000 ✓	12.771	< 34.000 ✓	11.547	< 34.000 ✓
663	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
664	8.614	2.410	0.957	0.007	15.915	< 34.000 ✓	11.981	< 34.000 ✓	11.031	< 34.000 ✓
665	8.568	2.405	0.929	0.006	15.842	< 34.000 ✓	11.901	< 34.000 ✓	10.979	< 34.000 ✓
666	9.156	2.491	1.130	0.012	16.804	< 34.000 ✓	12.777	< 34.000 ✓	11.659	< 34.000 ✓
667	9.086	2.540	1.803	0.295	16.785	< 34.000 ✓	13.429	< 34.000 ✓	11.921	< 34.000 ✓
668	9.065	2.482	1.915	0.292	16.662	< 34.000 ✓	13.461	< 34.000 ✓	11.838	< 34.000 ✓
669	8.994	2.565	1.607	0.260	16.695	< 34.000 ✓	13.165	< 34.000 ✓	11.818	< 34.000 ✓
670	8.717	2.531	1.394	0.208	16.255	< 34.000 ✓	12.643	< 34.000 ✓	11.456	< 34.000 ✓
671	9.280	2.475	2.071	0.264	16.952	< 34.000 ✓	13.826	< 34.000 ✓	12.019	< 34.000 ✓
672	9.161	2.391	1.990	0.211	16.652	< 34.000 ✓	13.543	< 34.000 ✓	11.763	< 34.000 ✓



ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
673	9.129	2.327	1.778	0.154	16.505	< 34.000 ✓	13.235	< 34.000 ✓	11.611	< 34.000 ✓
674	9.214	2.288	1.787	0.093	16.559	< 34.000 ✓	13.288	< 34.000 ✓	11.595	< 34.000 ✓
675	9.371	2.263	2.111	0.067	16.741	< 34.000 ✓	13.745	< 34.000 ✓	11.702	< 34.000 ✓
676	9.540	2.244	2.420	0.081	16.945	< 34.000 ✓	14.203	< 34.000 ✓	11.864	< 34.000 ✓
677	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
678	9.521	2.194	2.804	0.111	16.840	< 34.000 ✓	14.519	< 34.000 ✓	11.826	< 34.000 ✓
679	9.570	2.161	3.474	0.178	16.856	< 34.000 ✓	15.205	< 34.000 ✓	11.910	< 34.000 ✓
680	9.468	2.230	2.466	0.097	16.823	< 34.000 ✓	14.164	< 34.000 ✓	11.794	< 34.000 ✓
681	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
682	9.601	2.124	4.363	0.242	16.840	< 34.000 ✓	16.088	< 34.000 ✓	11.967	< 34.000 ✓
683	9.510	2.072	5.190	0.292	16.629	< 34.000 ✓	16.771	< 34.000 ✓	11.874	< 34.000 ✓
684	9.409	2.021	6.002	0.328	16.407	< 34.000 ✓	17.432	< 34.000 ✓	11.759	< 34.000 ✓
685	10.608	2.739	1.436	0.019	19.234	< 34.000 ✓	14.783	< 34.000 ✓	13.366	< 34.000 ✓
686	9.340	2.532	1.099	0.011	17.128	< 34.000 ✓	12.972	< 34.000 ✓	11.884	< 34.000 ✓
687	10.161	2.678	1.206	0.014	18.509	< 34.000 ✓	14.044	< 34.000 ✓	12.852	< 34.000 ✓
688	10.774	2.778	1.386	0.019	19.529	< 34.000 ✓	14.939	< 34.000 ✓	13.571	< 34.000 ✓
689	10.262	2.694	1.258	0.015	18.677	< 34.000 ✓	14.214	< 34.000 ✓	12.971	< 34.000 ✓
690	8.702	2.428	0.932	0.005	16.068	< 34.000 ✓	12.062	< 34.000 ✓	11.135	< 34.000 ✓
691	8.111	2.335	0.805	0.009	15.092	< 34.000 ✓	11.251	< 34.000 ✓	10.455	< 34.000 ✓
692	7.778	2.291	0.754	0.029	14.555	< 34.000 ✓	10.823	< 34.000 ✓	10.099	< 34.000 ✓
693	7.716	2.299	0.836	0.059	14.480	< 34.000 ✓	10.850	< 34.000 ✓	10.074	< 34.000 ✓
694	7.897	2.355	0.976	0.099	14.824	< 34.000 ✓	11.228	< 34.000 ✓	10.351	< 34.000 ✓
695	8.279	2.445	1.170	0.150	15.502	< 34.000 ✓	11.893	< 34.000 ✓	10.874	< 34.000 ✓
696	8.680	2.423	0.950	0.007	16.029	< 34.000 ✓	12.053	< 34.000 ✓	11.110	< 34.000 ✓
697	8.794	2.469	1.717	0.286	16.262	< 34.000 ✓	12.980	< 34.000 ✓	11.549	< 34.000 ✓
698	8.832	2.519	1.571	0.264	16.395	< 34.000 ✓	12.922	< 34.000 ✓	11.615	< 34.000 ✓
699	8.744	2.410	1.769	0.277	16.098	< 34.000 ✓	12.923	< 34.000 ✓	11.431	< 34.000 ✓
700	8.695	2.516	1.383	0.220	16.198	< 34.000 ✓	12.594	< 34.000 ✓	11.430	< 34.000 ✓
701	8.310	2.439	1.187	0.166	15.536	< 34.000 ✓	11.936	< 34.000 ✓	10.915	< 34.000 ✓
702	8.975	2.407	1.900	0.255	16.415	< 34.000 ✓	13.282	< 34.000 ✓	11.636	< 34.000 ✓
703	8.944	2.344	1.762	0.209	16.272	< 34.000 ✓	13.050	< 34.000 ✓	11.497	< 34.000 ✓
704	9.019	2.302	1.554	0.154	16.309	< 34.000 ✓	12.875	< 34.000 ✓	11.475	< 34.000 ✓
705	9.167	2.274	1.841	0.092	16.473	< 34.000 ✓	13.283	< 34.000 ✓	11.533	< 34.000 ✓
706	9.352	2.258	2.137	0.083	16.706	< 34.000 ✓	13.747	< 34.000 ✓	11.693	< 34.000 ✓
707	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
708	9.422	2.178	3.223	0.111	16.676	< 34.000 ✓	14.823	< 34.000 ✓	11.711	< 34.000 ✓
709	9.381	2.205	2.555	0.105	16.661	< 34.000 ✓	14.141	< 34.000 ✓	11.691	< 34.000 ✓
710	9.488	2.151	4.109	0.165	16.724	< 34.000 ✓	15.747	< 34.000 ✓	11.803	< 34.000 ✓
711	9.261	2.239	2.147	0.101	16.548	< 34.000 ✓	13.647	< 34.000 ✓	11.601	< 34.000 ✓
712	9.518	2.119	5.004	0.221	16.716	< 34.000 ✓	16.641	< 34.000 ✓	11.858	< 34.000 ✓
713	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
714	9.428	2.070	5.823	0.265	16.512	< 34.000 ✓	17.321	< 34.000 ✓	11.763	< 34.000 ✓
715	9.328	2.022	6.623	0.299	16.294	< 34.000 ✓	17.973	< 34.000 ✓	11.649	< 34.000 ✓
716	9.426	2.552	1.066	0.010	17.279	< 34.000 ✓	13.044	< 34.000 ✓	11.987	< 34.000 ✓
717	9.418	2.549	1.092	0.011	17.264	< 34.000 ✓	13.060	< 34.000 ✓	11.978	< 34.000 ✓
718	9.843	2.622	1.175	0.013	17.975	< 34.000 ✓	13.640	< 34.000 ✓	12.478	< 34.000 ✓
719	10.206	2.685	1.174	0.013	18.584	< 34.000 ✓	14.065	< 34.000 ✓	12.904	< 34.000 ✓
720	10.880	2.800	1.342	0.019	19.712	< 34.000 ✓	15.022	< 34.000 ✓	13.699	< 34.000 ✓
721	10.428	2.722	1.181	0.013	18.955	< 34.000 ✓	14.332	< 34.000 ✓	13.164	< 34.000 ✓
722	8.722	2.432	0.910	0.001	16.102	< 34.000 ✓	12.063	< 34.000 ✓	11.155	< 34.000 ✓
723	8.168	2.342	0.801	0.015	15.182	< 34.000 ✓	11.311	< 34.000 ✓	10.524	< 34.000 ✓
724	7.858	2.300	0.779	0.038	14.681	< 34.000 ✓	10.937	< 34.000 ✓	10.195	< 34.000 ✓
725	7.794	2.305	0.864	0.070	14.601	< 34.000 ✓	10.964	< 34.000 ✓	10.170	< 34.000 ✓
726	7.963	2.357	1.004	0.114	14.920	< 34.000 ✓	11.324	< 34.000 ✓	10.434	< 34.000 ✓
727	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
728	8.479	2.398	1.602	0.273	15.707	< 34.000 ✓	12.479	< 34.000 ✓	11.151	< 34.000 ✓
729	8.508	2.441	1.504	0.259	15.817	< 34.000 ✓	12.453	< 34.000 ✓	11.208	< 34.000 ✓
730	8.696	2.511	1.386	0.228	16.192	< 34.000 ✓	12.593	< 34.000 ✓	11.435	< 34.000 ✓
731	8.490	2.356	1.607	0.267	15.655	< 34.000 ✓	12.453	< 34.000 ✓	11.112	< 34.000 ✓
732	8.262	2.420	1.177	0.176	15.440	< 34.000 ✓	11.860	< 34.000 ✓	10.859	< 34.000 ✓
733	7.968	2.349	1.013	0.126	14.915	< 34.000 ✓	11.331	< 34.000 ✓	10.444	< 34.000 ✓
734	8.730	2.354	1.706	0.249	15.989	< 34.000 ✓	12.791	< 34.000 ✓	11.333	< 34.000 ✓
735	8.805	2.313	1.497	0.206	16.027	< 34.000 ✓	12.615	< 34.000 ✓	11.324	< 34.000 ✓
736	8.942	2.283	1.576	0.149	16.171	< 34.000 ✓	12.801	< 34.000 ✓	11.373	< 34.000 ✓
737	9.135	2.266	1.853	0.090	16.415	< 34.000 ✓	13.254	< 34.000 ✓	11.492	< 34.000 ✓
738	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
739	9.288	2.190	2.878	0.109	16.507	< 34.000 ✓	14.356	< 34.000 ✓	11.587	< 34.000 ✓
740	9.203	2.177	3.385	0.112	16.367	< 34.000 ✓	14.764	< 34.000 ✓	11.492	< 34.000 ✓
741	9.331	2.165	3.834	0.115	16.528	< 34.000 ✓	15.331	< 34.000 ✓	11.612	< 34.000 ✓
742	9.080	2.204	2.106	0.113	16.239	< 34.000 ✓	13.390	< 34.000 ✓	11.397	< 34.000 ✓
743	9.410	2.143	4.727	0.154	16.603	< 34.000 ✓	16.280	< 34.000 ✓	11.707	< 34.000 ✓
744	9.021	2.243	1.835	0.104	16.218	< 34.000 ✓	13.099	< 34.000 ✓	11.368	< 34.000 ✓
745	9.437	2.114	5.755	0.200	16.594	< 34.000 ✓	17.306	< 34.000 ✓	11.751	< 34.000 ✓
746	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
747	9.370	2.069	6.437	0.242	16.429	< 34.000 ✓	17.877	< 34.000 ✓	11.682	< 34.000 ✓
748	9.264	2.021	7.227	0.275	16.204	< 34.000 ✓	18.512	< 34.000 ✓	11.561	< 34.000 ✓
749	9.443	2.554	1.037	0.008	17.308	< 34.000 ✓	13.035	< 34.000 ✓	12.005	< 34.000 ✓
750	10.950	2.811	1.308	0.019	19.827	< 34.000 ✓	15.068	< 34.000 ✓	13.779	< 34.000 ✓
751	9.477	2.559	1.020	0.005	17.362	< 34.000 ✓	13.056	< 34.000 ✓	12.041	< 34.000 ✓
752	10.242	2.683	1.135	0.011	18.632	< 34.000 ✓	14.060	< 34.000 ✓	12.936	< 34.000 ✓
753	11.008	2.816	1.284	0.019	19.917	< 34.000 ✓	15.109	< 34.000 ✓	13.843	< 34.000 ✓
754	10.285	2.671	1.141	0.010	18.673	< 34.000 ✓	14.097	< 34.000 ✓	12.966	< 34.000 ✓
755	8.757	2.436	0.897	0.003	16.157	< 34.000 ✓	12.090	< 34.000 ✓	11.196	< 34.000 ✓
756	8.235	2.350	0.804	0.020	15.288	< 34.000 ✓	11.389	< 34.000 ✓	10.605	< 34.000 ✓

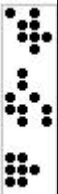


ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
757	7.920	2.305	0.799	0.046	14.775 <	34.000 ✓	11.023 <	34.000 ✓	10.270 <	34.000 ✓
758	7.829	2.304	0.881	0.081	14.648 <	34.000 ✓	11.015 <	34.000 ✓	10.214 <	34.000 ✓
759	8.232	2.347	1.470	0.262	15.280 <	34.000 ✓	12.049 <	34.000 ✓	10.841 <	34.000 ✓
760	8.191	2.370	1.415	0.250	15.260 <	34.000 ✓	11.977 <	34.000 ✓	10.811 <	34.000 ✓
761	8.193	2.392	1.296	0.221	15.298 <	34.000 ✓	11.882 <	34.000 ✓	10.807 <	34.000 ✓
762	8.107	2.381	1.149	0.180	15.160 <	34.000 ✓	11.637 <	34.000 ✓	10.669 <	34.000 ✓
763	8.319	2.322	1.425	0.260	15.361 <	34.000 ✓	12.066 <	34.000 ✓	10.901 <	34.000 ✓
764	7.899	2.329	1.003	0.134	14.784 <	34.000 ✓	11.231 <	34.000 ✓	10.361 <	34.000 ✓
765	7.805	2.293	0.883	0.090	14.596 <	34.000 ✓	10.981 <	34.000 ✓	10.187 <	34.000 ✓
766	8.571	2.320	1.487	0.244	15.711 <	34.000 ✓	12.377 <	34.000 ✓	11.135 <	34.000 ✓
767	8.705	2.289	1.319	0.198	15.850 <	34.000 ✓	12.314 <	34.000 ✓	11.192 <	34.000 ✓
768	8.898	2.272	1.574	0.144	16.093 <	34.000 ✓	12.744 <	34.000 ✓	11.315 <	34.000 ✓
769	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
770	9.128	2.171	3.522	0.113	16.254 <	34.000 ✓	14.822 <	34.000 ✓	11.413 <	34.000 ✓
771	8.923	2.175	2.568	0.115	15.972 <	34.000 ✓	13.666 <	34.000 ✓	11.213 <	34.000 ✓
772	9.173	2.172	3.583	0.113	16.318 <	34.000 ✓	14.928 <	34.000 ✓	11.459 <	34.000 ✓
773	9.254	2.156	4.430	0.120	16.405 <	34.000 ✓	15.840 <	34.000 ✓	11.530 <	34.000 ✓
774	8.792	2.197	1.747	0.118	15.825 <	34.000 ✓	12.737 <	34.000 ✓	11.108 <	34.000 ✓
775	9.346	2.138	5.330	0.148	16.505 <	34.000 ✓	16.814 <	34.000 ✓	11.631 <	34.000 ✓
776	8.766	2.244	1.536	0.136	15.863 <	34.000 ✓	12.547 <	34.000 ✓	11.147 <	34.000 ✓
777	9.384	2.111	6.267	0.189	16.516 <	34.000 ✓	17.763 <	34.000 ✓	11.684 <	34.000 ✓
778	9.306	2.067	7.031	0.223	16.335 <	34.000 ✓	18.404 <	34.000 ✓	11.596 <	34.000 ✓
779	9.501	2.557	1.008	0.003	17.393 <	34.000 ✓	13.066 <	34.000 ✓	12.061 <	34.000 ✓
780	10.206	2.668	1.121	0.009	18.556 <	34.000 ✓	13.994 <	34.000 ✓	12.883 <	34.000 ✓
781	10.966	2.802	1.256	0.018	19.837 <	34.000 ✓	15.025 <	34.000 ✓	13.787 <	34.000 ✓
782	9.939	2.598	1.129	0.008	18.072 <	34.000 ✓	13.667 <	34.000 ✓	12.545 <	34.000 ✓
783	10.798	2.753	1.223	0.017	19.522 <	34.000 ✓	14.774 <	34.000 ✓	13.568 <	34.000 ✓
784	9.520	2.546	1.017	0.003	17.401 <	34.000 ✓	13.083 <	34.000 ✓	12.068 <	34.000 ✓
785	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
786	8.811	2.441	0.893	0.007	16.241 <	34.000 ✓	12.146 <	34.000 ✓	11.260 <	34.000 ✓
787	8.295	2.355	0.814	0.025	15.381 <	34.000 ✓	11.464 <	34.000 ✓	10.675 <	34.000 ✓
788	7.929	2.300	0.807	0.052	14.781 <	34.000 ✓	11.036 <	34.000 ✓	10.282 <	34.000 ✓
789	8.070	2.317	1.318	0.252	15.006 <	34.000 ✓	11.705 <	34.000 ✓	10.639 <	34.000 ✓
790	7.962	2.325	1.311	0.238	14.867 <	34.000 ✓	11.598 <	34.000 ✓	10.526 <	34.000 ✓
791	7.884	2.324	1.227	0.214	14.756 <	34.000 ✓	11.434 <	34.000 ✓	10.422 <	34.000 ✓
792	7.835	2.319	1.105	0.179	14.678 <	34.000 ✓	11.258 <	34.000 ✓	10.332 <	34.000 ✓
793	7.749	2.293	0.978	0.137	14.518 <	34.000 ✓	11.021 <	34.000 ✓	10.180 <	34.000 ✓
794	8.189	2.295	1.201	0.255	15.136 <	34.000 ✓	11.685 <	34.000 ✓	10.739 <	34.000 ✓
795	7.717	2.271	0.871	0.096	14.437 <	34.000 ✓	10.859 <	34.000 ✓	10.083 <	34.000 ✓
796	7.872	2.284	0.803	0.058	14.676 <	34.000 ✓	10.959 <	34.000 ✓	10.215 <	34.000 ✓
797	8.459	2.295	1.219	0.238	15.515 <	34.000 ✓	11.973 <	34.000 ✓	10.993 <	34.000 ✓
798	8.652	2.277	1.305	0.191	15.757 <	34.000 ✓	12.234 <	34.000 ✓	11.121 <	34.000 ✓
799	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
800	9.057	2.162	4.099	0.116	16.138 <	34.000 ✓	15.318 <	34.000 ✓	11.334 <	34.000 ✓
801	8.813	2.156	3.133	0.113	15.788 <	34.000 ✓	14.103 <	34.000 ✓	11.083 <	34.000 ✓
802	8.597	2.159	2.210	0.118	15.491 <	34.000 ✓	12.967 <	34.000 ✓	10.875 <	34.000 ✓
803	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
804	9.100	2.163	4.162	0.117	16.200 <	34.000 ✓	15.425 <	34.000 ✓	11.380 <	34.000 ✓
805	9.200	2.152	5.011	0.126	16.323 <	34.000 ✓	16.362 <	34.000 ✓	11.478 <	34.000 ✓
806	8.503	2.190	1.417	0.119	15.409 <	34.000 ✓	12.110 <	34.000 ✓	10.812 <	34.000 ✓
807	9.304	2.135	5.976	0.147	16.441 <	34.000 ✓	17.415 <	34.000 ✓	11.585 <	34.000 ✓
808	8.507	2.246	1.253	0.180	15.504 <	34.000 ✓	12.006 <	34.000 ✓	10.934 <	34.000 ✓
809	9.312	2.107	6.797	0.177	16.409 <	34.000 ✓	18.217 <	34.000 ✓	11.597 <	34.000 ✓
810	9.527	2.555	1.005	0.003	17.425 <	34.000 ✓	13.086 <	34.000 ✓	12.084 <	34.000 ✓
811	10.894	2.781	1.235	0.018	19.701 <	34.000 ✓	14.909 <	34.000 ✓	13.693 <	34.000 ✓
812	10.538	2.691	1.221	0.018	19.059 <	34.000 ✓	14.450 <	34.000 ✓	13.247 <	34.000 ✓
813	9.668	2.536	1.158	0.008	17.594 <	34.000 ✓	13.363 <	34.000 ✓	12.213 <	34.000 ✓
814	9.328	2.502	1.037	0.003	17.061 <	34.000 ✓	12.866 <	34.000 ✓	11.832 <	34.000 ✓
815	8.794	2.427	0.900	0.015	16.195 <	34.000 ✓	12.121 <	34.000 ✓	11.236 <	34.000 ✓
816	9.297	2.510	0.981	0.006	17.031 <	34.000 ✓	12.788 <	34.000 ✓	11.812 <	34.000 ✓
817	8.874	2.447	0.899	0.011	16.338 <	34.000 ✓	12.219 <	34.000 ✓	11.331 <	34.000 ✓
818	8.295	2.349	0.831	0.029	15.372 <	34.000 ✓	11.475 <	34.000 ✓	10.673 <	34.000 ✓
819	7.942	2.293	1.121	0.239	14.787 <	34.000 ✓	11.356 <	34.000 ✓	10.473 <	34.000 ✓
820	7.837	2.306	1.186	0.226	14.663 <	34.000 ✓	11.330 <	34.000 ✓	10.370 <	34.000 ✓
821	7.677	2.285	1.144	0.204	14.404 <	34.000 ✓	11.106 <	34.000 ✓	10.166 <	34.000 ✓
822	7.576	2.264	1.050	0.174	14.228 <	34.000 ✓	10.890 <	34.000 ✓	10.014 <	34.000 ✓
823	7.540	2.248	0.942	0.137	14.152 <	34.000 ✓	10.729 <	34.000 ✓	9.925 <	34.000 ✓
824	7.573	2.239	0.847	0.099	14.185 <	34.000 ✓	10.659 <	34.000 ✓	9.911 <	34.000 ✓
825	8.312	2.285	1.096	0.248	15.293 <	34.000 ✓	11.694 <	34.000 ✓	10.845 <	34.000 ✓
826	7.985	2.248	0.880	0.229	14.775 <	34.000 ✓	11.112 <	34.000 ✓	10.461 <	34.000 ✓
827	7.761	2.259	0.825	0.063	14.481 <	34.000 ✓	10.846 <	34.000 ✓	10.084 <	34.000 ✓
828	8.199	2.325	0.854	0.033	15.199 <	34.000 ✓	11.378 <	34.000 ✓	10.558 <	34.000 ✓
829	8.405	2.283	1.076	0.233	15.420 <	34.000 ✓	11.764 <	34.000 ✓	10.921 <	34.000 ✓
830	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
831	8.760	2.148	3.699	0.112	15.701 <	34.000 ✓	14.607 <	34.000 ✓	11.020 <	34.000 ✓
832	8.478	2.136	2.746	0.113	15.287 <	34.000 ✓	13.361 <	34.000 ✓	10.728 <	34.000 ✓
833	8.283	2.145	1.886	0.118	15.028 <	34.000 ✓	12.314 <	34.000 ✓	10.546 <	34.000 ✓
834	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
835	9.047	2.159	4.841	0.123	16.120 <	34.000 ✓	16.047 <	34.000 ✓	11.329 <	34.000 ✓
836	9.189	2.152	5.656	0.137	16.308 <	34.000 ✓	16.997 <	34.000 ✓	11.478 <	34.000 ✓
837	8.224	2.186	1.179	0.151	15.011 <	34.000 ✓	11.589 <	34.000 ✓	10.561 <	34.000 ✓
838	9.249	2.135	6.484	0.156	16.365 <	34.000 ✓	17.869 <	34.000 ✓	11.541 <	34.000 ✓
839	8.250	2.249	0.984	0.216	15.148 <	34.000 ✓	11.483 <	34.000 ✓	10.715 <	34.000 ✓
840	10.208	2.616	1.241	0.019	18.477 <	34.000 ✓	14.066 <	34.000 ✓	12.843 <	34.000 ✓

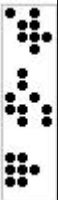
ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
841	9.124	2.455	1.072	0.004	16.702 <	34.000 ✓	12.652 <	34.000 ✓	11.583 <	34.000 ✓
842	9.418	2.480	1.205	0.008	17.152 <	34.000 ✓	13.102 <	34.000 ✓	11.906 <	34.000 ✓
843	9.123	2.469	1.005	0.007	16.723 <	34.000 ✓	12.597 <	34.000 ✓	11.599 <	34.000 ✓
844	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
845	8.725	2.405	0.938	0.015	16.064 <	34.000 ✓	12.068 <	34.000 ✓	11.146 <	34.000 ✓
846	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
847	7.754	2.249	0.852	0.213	14.454 <	34.000 ✓	10.856 <	34.000 ✓	10.216 <	34.000 ✓
848	7.768	2.299	1.026	0.210	14.554 <	34.000 ✓	11.093 <	34.000 ✓	10.277 <	34.000 ✓
849	7.587	2.276	1.045	0.192	14.264 <	34.000 ✓	10.908 <	34.000 ✓	10.055 <	34.000 ✓
850	7.394	2.230	0.983	0.166	13.919 <	34.000 ✓	10.607 <	34.000 ✓	9.790 <	34.000 ✓
851	7.332	2.205	0.896	0.134	13.792 <	34.000 ✓	10.433 <	34.000 ✓	9.670 <	34.000 ✓
852	7.398	2.202	0.832	0.099	13.880 <	34.000 ✓	10.432 <	34.000 ✓	9.699 <	34.000 ✓
853	7.614	2.228	0.850	0.065	14.225 <	34.000 ✓	10.692 <	34.000 ✓	9.908 <	34.000 ✓
854	7.718	2.183	0.841	0.185	14.299 <	34.000 ✓	10.742 <	34.000 ✓	10.086 <	34.000 ✓
855	8.060	2.295	0.883	0.036	14.957 <	34.000 ✓	11.238 <	34.000 ✓	10.392 <	34.000 ✓
856	8.760	2.151	4.280	0.113	15.707 <	34.000 ✓	15.192 <	34.000 ✓	11.025 <	34.000 ✓
857	8.449	2.131	3.311	0.109	15.238 <	34.000 ✓	13.891 <	34.000 ✓	10.688 <	34.000 ✓
858	8.162	2.119	2.395	0.111	14.817 <	34.000 ✓	12.676 <	34.000 ✓	10.392 <	34.000 ✓
859	7.994	2.135	1.606	0.116	14.608 <	34.000 ✓	11.735 <	34.000 ✓	10.245 <	34.000 ✓
860	9.036	2.161	5.322	0.128	16.108 <	34.000 ✓	16.519 <	34.000 ✓	11.325 <	34.000 ✓
861	9.147	2.155	6.148	0.145	16.254 <	34.000 ✓	17.450 <	34.000 ✓	11.447 <	34.000 ✓
862	7.961	2.183	0.983	0.176	14.639 <	34.000 ✓	11.128 <	34.000 ✓	10.321 <	34.000 ✓
863	9.902	2.546	1.284	0.020	17.936 <	34.000 ✓	13.731 <	34.000 ✓	12.467 <	34.000 ✓
864	8.928	2.412	1.120	0.004	16.358 <	34.000 ✓	12.460 <	34.000 ✓	11.344 <	34.000 ✓
865	8.938	2.427	1.040	0.008	16.396 <	34.000 ✓	12.405 <	34.000 ✓	11.373 <	34.000 ✓
866	9.205	2.432	1.271	0.008	16.778 <	34.000 ✓	12.908 <	34.000 ✓	11.645 <	34.000 ✓
867	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
868	8.556	2.368	0.972	0.017	15.768 <	34.000 ✓	11.896 <	34.000 ✓	10.941 <	34.000 ✓
869	7.514	2.186	0.926	0.175	14.016 <	34.000 ✓	10.626 <	34.000 ✓	9.875 <	34.000 ✓
870	7.607	2.261	0.942	0.186	14.267 <	34.000 ✓	10.810 <	34.000 ✓	10.054 <	34.000 ✓
871	7.591	2.289	0.935	0.176	14.289 <	34.000 ✓	10.815 <	34.000 ✓	10.055 <	34.000 ✓
872	7.639	2.303	0.998	0.169	14.380 <	34.000 ✓	10.940 <	34.000 ✓	10.111 <	34.000 ✓
873	7.301	2.219	0.903	0.155	13.771 <	34.000 ✓	10.422 <	34.000 ✓	9.674 <	34.000 ✓
874	7.171	2.175	0.858	0.127	13.520 <	34.000 ✓	10.204 <	34.000 ✓	9.474 <	34.000 ✓
875	7.223	2.168	0.862	0.097	13.581 <	34.000 ✓	10.253 <	34.000 ✓	9.488 <	34.000 ✓
876	7.451	2.196	0.884	0.066	13.945 <	34.000 ✓	10.531 <	34.000 ✓	9.712 <	34.000 ✓
877	7.902	2.263	0.921	0.038	14.684 <	34.000 ✓	11.086 <	34.000 ✓	10.203 <	34.000 ✓
878	7.512	2.128	1.215	0.139	13.921 <	34.000 ✓	10.854 <	34.000 ✓	9.779 <	34.000 ✓
879	8.500	2.142	3.905	0.106	15.328 <	34.000 ✓	14.548 <	34.000 ✓	10.749 <	34.000 ✓
880	8.806	2.164	4.867	0.117	15.790 <	34.000 ✓	15.837 <	34.000 ✓	11.086 <	34.000 ✓
881	8.158	2.116	2.958	0.104	14.808 <	34.000 ✓	13.233 <	34.000 ✓	10.378 <	34.000 ✓
882	7.880	2.107	2.098	0.106	14.402 <	34.000 ✓	12.085 <	34.000 ✓	10.092 <	34.000 ✓
883	7.736	2.130	1.385	0.133	14.237 <	34.000 ✓	11.250 <	34.000 ✓	9.998 <	34.000 ✓
884	9.005	2.168	5.799	0.133	16.075 <	34.000 ✓	16.971 <	34.000 ✓	11.305 <	34.000 ✓
885	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
886	8.817	2.167	4.985	0.118	15.811 <	34.000 ✓	15.969 <	34.000 ✓	11.101 <	34.000 ✓
887	9.650	2.489	1.348	0.019	17.492 <	34.000 ✓	13.487 <	34.000 ✓	12.158 <	34.000 ✓
888	8.765	2.389	1.085	0.009	16.094 <	34.000 ✓	12.240 <	34.000 ✓	11.163 <	34.000 ✓
889	8.748	2.373	1.185	0.004	16.044 <	34.000 ✓	12.306 <	34.000 ✓	11.126 <	34.000 ✓
890	9.034	2.395	1.357	0.008	16.479 <	34.000 ✓	12.786 <	34.000 ✓	11.437 <	34.000 ✓
891	8.392	2.334	1.020	0.018	15.483 <	34.000 ✓	11.746 <	34.000 ✓	10.744 <	34.000 ✓
892	7.353	2.189	1.070	0.154	13.796 <	34.000 ✓	10.611 <	34.000 ✓	9.696 <	34.000 ✓
893	7.326	2.130	1.108	0.133	13.664 <	34.000 ✓	10.564 <	34.000 ✓	9.588 <	34.000 ✓
894	7.463	2.258	1.049	0.155	14.061 <	34.000 ✓	10.771 <	34.000 ✓	9.876 <	34.000 ✓
895	7.258	2.217	0.982	0.141	13.708 <	34.000 ✓	10.457 <	34.000 ✓	9.616 <	34.000 ✓
896	7.067	2.160	0.927	0.119	13.350 <	34.000 ✓	10.154 <	34.000 ✓	9.346 <	34.000 ✓
897	7.079	2.141	0.913	0.092	13.337 <	34.000 ✓	10.134 <	34.000 ✓	9.312 <	34.000 ✓
898	7.294	2.166	0.931	0.065	13.676 <	34.000 ✓	10.390 <	34.000 ✓	9.524 <	34.000 ✓
899	7.743	2.230	0.968	0.039	14.409 <	34.000 ✓	10.942 <	34.000 ✓	10.012 <	34.000 ✓
900	7.432	2.100	1.644	0.094	13.764 <	34.000 ✓	11.175 <	34.000 ✓	9.625 <	34.000 ✓
901	8.598	2.164	4.497	0.107	15.500 <	34.000 ✓	15.259 <	34.000 ✓	10.869 <	34.000 ✓
902	8.259	2.135	3.550	0.099	14.979 <	34.000 ✓	13.945 <	34.000 ✓	10.493 <	34.000 ✓
903	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
904	7.899	2.106	2.640	0.097	14.429 <	34.000 ✓	12.645 <	34.000 ✓	10.102 <	34.000 ✓
905	7.635	2.101	1.847	0.097	14.050 <	34.000 ✓	11.583 <	34.000 ✓	9.833 <	34.000 ✓
906	8.838	2.175	5.427	0.122	15.854 <	34.000 ✓	16.441 <	34.000 ✓	11.135 <	34.000 ✓
907	8.624	2.170	4.620	0.108	15.545 <	34.000 ✓	15.413 <	34.000 ✓	10.901 <	34.000 ✓
908	9.461	2.446	1.436	0.019	17.158 <	34.000 ✓	13.342 <	34.000 ✓	11.925 <	34.000 ✓
909	8.582	2.351	1.152	0.009	15.776 <	34.000 ✓	12.085 <	34.000 ✓	10.942 <	34.000 ✓
910	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
911	8.593	2.341	1.270	0.005	15.775 <	34.000 ✓	12.204 <	34.000 ✓	10.939 <	34.000 ✓
912	8.906	2.368	1.467	0.011	16.257 <	34.000 ✓	12.741 <	34.000 ✓	11.284 <	34.000 ✓
913	8.217	2.297	1.076	0.019	15.179 <	34.000 ✓	11.590 <	34.000 ✓	10.533 <	34.000 ✓
914	7.191	2.178	1.186	0.129	13.552 <	34.000 ✓	10.555 <	34.000 ✓	9.498 <	34.000 ✓
915	7.173	2.131	1.264	0.118	13.451 <	34.000 ✓	10.567 <	34.000 ✓	9.422 <	34.000 ✓
916	7.269	2.102	1.486	0.091	13.540 <	34.000 ✓	10.857 <	34.000 ✓	9.461 <	34.000 ✓
917	7.151	2.191	1.111	0.123	13.518 <	34.000 ✓	10.453 <	34.000 ✓	9.466 <	34.000 ✓
918	6.995	2.149	1.033	0.107	13.231 <	34.000 ✓	10.177 <	34.000 ✓	9.251 <	34.000 ✓
919	6.972	2.124	0.993	0.086	13.160 <	34.000 ✓	10.089 <	34.000 ✓	9.182 <	34.000 ✓
920	7.161	2.141	0.997	0.062	13.451 <	34.000 ✓	10.299 <	34.000 ✓	9.364 <	34.000 ✓
921	7.596	2.201	1.030	0.039	14.157 <	34.000 ✓	10.828 <	34.000 ✓	9.836 <	34.000 ✓
922	7.502	2.104	2.129	0.079	13.869 <	34.000 ✓	11.735 <	34.000 ✓	9.685 <	34.000 ✓
923	8.400	2.166	4.105	0.097	15.226 <	34.000 ✓	14.672 <	34.000 ✓	10.663 <	34.000 ✓
924	8.672	2.183	5.054	0.110	15.633 <	34.000 ✓	15.909 <	34.000 ✓	10.965 <	34.000 ✓



ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
925	8.035	2.131	3.217	0.091	14.658 <	34.000 ✓	13.382 <	34.000 ✓	10.256 <	34.000 ✓
926	7.679	2.102	2.362	0.089	14.114 <	34.000 ✓	12.143 <	34.000 ✓	9.870 <	34.000 ✓
927	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
928	9.333	2.417	1.552	0.017	16.934 <	34.000 ✓	13.302 <	34.000 ✓	11.768 <	34.000 ✓
929	8.430	2.320	1.235	0.009	15.514 <	34.000 ✓	11.985 <	34.000 ✓	10.759 <	34.000 ✓
930	8.465	2.316	1.376	0.006	15.556 <	34.000 ✓	12.157 <	34.000 ✓	10.787 <	34.000 ✓
931	8.822	2.353	1.606	0.013	16.115 <	34.000 ✓	12.780 <	34.000 ✓	11.187 <	34.000 ✓
932	8.067	2.268	1.152	0.019	14.922 <	34.000 ✓	11.486 <	34.000 ✓	10.353 <	34.000 ✓
933	7.036	2.124	1.396	0.099	13.248 <	34.000 ✓	10.556 <	34.000 ✓	9.259 <	34.000 ✓
934	6.994	2.143	1.278	0.103	13.220 <	34.000 ✓	10.415 <	34.000 ✓	9.239 <	34.000 ✓
935	7.141	2.105	1.539	0.081	13.366 <	34.000 ✓	10.786 <	34.000 ✓	9.328 <	34.000 ✓
936	7.368	2.110	1.938	0.068	13.691 <	34.000 ✓	11.416 <	34.000 ✓	9.545 <	34.000 ✓
937	6.915	2.130	1.176	0.094	13.090 <	34.000 ✓	10.222 <	34.000 ✓	9.139 <	34.000 ✓
938	6.893	2.111	1.108	0.077	13.028 <	34.000 ✓	10.112 <	34.000 ✓	9.081 <	34.000 ✓
939	7.059	2.124	1.089	0.057	13.280 <	34.000 ✓	10.272 <	34.000 ✓	9.240 <	34.000 ✓
940	7.470	2.178	1.112	0.037	13.944 <	34.000 ✓	10.760 <	34.000 ✓	9.686 <	34.000 ✓
941	7.703	2.138	2.658	0.073	14.204 <	34.000 ✓	12.498 <	34.000 ✓	9.913 <	34.000 ✓
942	8.430	2.173	4.247	0.098	15.278 <	34.000 ✓	14.850 <	34.000 ✓	10.700 <	34.000 ✓
943	8.228	2.169	3.799	0.089	14.989 <	34.000 ✓	14.196 <	34.000 ✓	10.485 <	34.000 ✓
944	8.514	2.191	4.688	0.100	15.424 <	34.000 ✓	15.393 <	34.000 ✓	10.804 <	34.000 ✓
945	7.846	2.131	2.917	0.082	14.394 <	34.000 ✓	12.895 <	34.000 ✓	10.060 <	34.000 ✓
946	9.269	2.405	1.709	0.017	16.825 <	34.000 ✓	13.383 <	34.000 ✓	11.692 <	34.000 ✓
947	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
948	8.303	2.296	1.341	0.009	15.298 <	34.000 ✓	11.940 <	34.000 ✓	10.608 <	34.000 ✓
949	8.364	2.298	1.504	0.007	15.387 <	34.000 ✓	12.166 <	34.000 ✓	10.669 <	34.000 ✓
950	8.786	2.352	1.798	0.013	16.063 <	34.000 ✓	12.936 <	34.000 ✓	11.151 <	34.000 ✓
951	7.942	2.244	1.248	0.018	14.710 <	34.000 ✓	11.434 <	34.000 ✓	10.204 <	34.000 ✓
952	7.042	2.107	1.691	0.069	13.230 <	34.000 ✓	10.840 <	34.000 ✓	9.218 <	34.000 ✓
953	6.913	2.109	1.513	0.079	13.053 <	34.000 ✓	10.536 <	34.000 ✓	9.102 <	34.000 ✓
954	6.841	2.106	1.369	0.078	12.948 <	34.000 ✓	10.317 <	34.000 ✓	9.026 <	34.000 ✓
955	7.274	2.119	1.894	0.057	13.573 <	34.000 ✓	11.287 <	34.000 ✓	9.450 <	34.000 ✓
956	7.599	2.149	2.438	0.064	14.076 <	34.000 ✓	12.186 <	34.000 ✓	9.811 <	34.000 ✓
957	6.832	2.098	1.265	0.067	12.922 <	34.000 ✓	10.195 <	34.000 ✓	8.998 <	34.000 ✓
958	6.984	2.111	1.215	0.052	13.155 <	34.000 ✓	10.310 <	34.000 ✓	9.147 <	34.000 ✓
959	7.370	2.161	1.217	0.034	13.776 <	34.000 ✓	10.748 <	34.000 ✓	9.565 <	34.000 ✓
960	8.026	2.200	3.322	0.071	14.757 <	34.000 ✓	13.549 <	34.000 ✓	10.297 <	34.000 ✓
961	8.267	2.177	3.918	0.089	15.057 <	34.000 ✓	14.362 <	34.000 ✓	10.533 <	34.000 ✓
962	8.074	2.176	3.482	0.080	14.785 <	34.000 ✓	13.732 <	34.000 ✓	10.330 <	34.000 ✓
963	8.376	2.201	4.337	0.090	15.249 <	34.000 ✓	14.914 <	34.000 ✓	10.667 <	34.000 ✓
964	9.264	2.414	1.939	0.018	16.832 <	34.000 ✓	13.616 <	34.000 ✓	11.696 <	34.000 ✓
965	8.201	2.279	1.469	0.009	15.127 <	34.000 ✓	11.949 <	34.000 ✓	10.488 <	34.000 ✓
966	8.286	2.287	1.653	0.008	15.261 <	34.000 ✓	12.227 <	34.000 ✓	10.581 <	34.000 ✓
967	8.785	2.359	1.911	0.013	16.073 <	34.000 ✓	13.055 <	34.000 ✓	11.156 <	34.000 ✓
968	7.841	2.228	1.367	0.017	14.542 <	34.000 ✓	11.436 <	34.000 ✓	10.086 <	34.000 ✓
969	6.976	2.107	1.829	0.055	13.137 <	34.000 ✓	10.912 <	34.000 ✓	9.137 <	34.000 ✓
970	7.216	2.129	2.067	0.047	13.509 <	34.000 ✓	11.412 <	34.000 ✓	9.392 <	34.000 ✓
971	6.839	2.095	1.628	0.060	12.926 <	34.000 ✓	10.562 <	34.000 ✓	8.994 <	34.000 ✓
972	6.806	2.089	1.477	0.056	12.872 <	34.000 ✓	10.372 <	34.000 ✓	8.952 <	34.000 ✓
973	7.539	2.165	2.312	0.055	14.019 <	34.000 ✓	12.017 <	34.000 ✓	9.759 <	34.000 ✓
974	7.892	2.206	2.957	0.062	14.578 <	34.000 ✓	13.054 <	34.000 ✓	10.160 <	34.000 ✓
975	6.936	2.103	1.384	0.045	13.075 <	34.000 ✓	10.423 <	34.000 ✓	9.084 <	34.000 ✓
976	7.293	2.151	1.354	0.031	13.652 <	34.000 ✓	10.798 <	34.000 ✓	9.475 <	34.000 ✓
977	8.126	2.186	3.600	0.079	14.875 <	34.000 ✓	13.912 <	34.000 ✓	10.392 <	34.000 ✓
978	7.957	2.220	3.066	0.062	14.692 <	34.000 ✓	13.243 <	34.000 ✓	10.239 <	34.000 ✓
979	8.185	2.235	3.711	0.071	15.035 <	34.000 ✓	14.131 <	34.000 ✓	10.491 <	34.000 ✓
980	8.263	2.216	4.008	0.080	15.113 <	34.000 ✓	14.486 <	34.000 ✓	10.558 <	34.000 ✓
981	8.882	2.372	1.943	0.014	16.230 <	34.000 ✓	13.196 <	34.000 ✓	11.267 <	34.000 ✓
982	9.272	2.438	2.256	0.016	16.881 <	34.000 ✓	13.965 <	34.000 ✓	11.726 <	34.000 ✓
983	8.120	2.268	1.620	0.008	14.996 <	34.000 ✓	12.008 <	34.000 ✓	10.396 <	34.000 ✓
984	7.764	2.217	1.511	0.015	14.417 <	34.000 ✓	11.492 <	34.000 ✓	9.996 <	34.000 ✓
985	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
986	8.220	2.288	1.893	0.006	15.169 <	34.000 ✓	12.401 <	34.000 ✓	10.514 <	34.000 ✓
987	8.578	2.331	1.844	0.010	15.738 <	34.000 ✓	12.752 <	34.000 ✓	10.919 <	34.000 ✓
988	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
989	8.767	2.368	2.086	0.011	16.063 <	34.000 ✓	13.221 <	34.000 ✓	11.146 <	34.000 ✓
990	7.193	2.141	2.225	0.038	13.496 <	34.000 ✓	11.559 <	34.000 ✓	9.372 <	34.000 ✓
991	6.961	2.111	1.965	0.041	13.122 <	34.000 ✓	11.036 <	34.000 ✓	9.112 <	34.000 ✓
992	7.522	2.185	2.509	0.046	14.026 <	34.000 ✓	12.216 <	34.000 ✓	9.753 <	34.000 ✓
993	6.857	2.096	1.756	0.043	12.953 <	34.000 ✓	10.709 <	34.000 ✓	8.996 <	34.000 ✓
994	6.935	2.103	1.612	0.037	13.072 <	34.000 ✓	10.649 <	34.000 ✓	9.074 <	34.000 ✓
995	7.859	2.228	2.758	0.054	14.568 <	34.000 ✓	12.846 <	34.000 ✓	10.141 <	34.000 ✓
996	8.138	2.258	3.446	0.062	15.005 <	34.000 ✓	13.842 <	34.000 ✓	10.458 <	34.000 ✓
997	7.240	2.144	1.536	0.027	13.565 <	34.000 ✓	10.919 <	34.000 ✓	9.410 <	34.000 ✓
998	7.666	2.206	1.565	0.016	14.263 <	34.000 ✓	11.438 <	34.000 ✓	9.889 <	34.000 ✓
999	7.928	2.242	2.856	0.054	14.687 <	34.000 ✓	13.026 <	34.000 ✓	10.224 <	34.000 ✓
1000	8.887	2.387	2.131	0.012	16.260 <	34.000 ✓	13.404 <	34.000 ✓	11.285 <	34.000 ✓
1001	9.261	2.464	2.599	0.013	16.908 <	34.000 ✓	14.324 <	34.000 ✓	11.737 <	34.000 ✓
1002	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
1003	7.694	2.211	1.708	0.014	14.309 <	34.000 ✓	11.613 <	34.000 ✓	9.919 <	34.000 ✓
1004	7.746	2.217	1.589	0.014	14.393 <	34.000 ✓	11.552 <	34.000 ✓	9.978 <	34.000 ✓
1005	0.000	0.000	0.000	0.000	0.000 <	34.000 ✓	0.000 <	34.000 ✓	0.000 <	34.000 ✓
1006	8.189	2.300	2.189	0.003	15.145 <	34.000 ✓	12.678 <	34.000 ✓	10.493 <	34.000 ✓
1007	8.738	2.386	2.405	0.008	16.051 <	34.000 ✓	13.529 <	34.000 ✓	11.132 <	34.000 ✓
1008	7.220	2.159	2.378	0.030	13.562 <	34.000 ✓	11.757 <	34.000 ✓	9.409 <	34.000 ✓



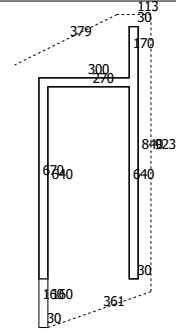
ZEMİN GERİLMESİNİN, ZEMİN TAŞIMA GÜCÜ TASARIM GERİLMESİNE GÖRE KONTROLU t/m²

Nokta	G	Q	E	W	1.4 G + 1.6 Q		G + Q + E		G + Q + W	
1009	7.531	2.207	2.683	0.038	14.074	< 34.000 ✓	12.421	< 34.000 ✓	9.776	< 34.000 ✓
1010	7.023	2.126	2.110	0.029	13.234	< 34.000 ✓	11.259	< 34.000 ✓	9.178	< 34.000 ✓
1011	7.864	2.252	2.939	0.047	14.613	< 34.000 ✓	13.055	< 34.000 ✓	10.163	< 34.000 ✓
1012	7.006	2.119	1.908	0.029	13.200	< 34.000 ✓	11.034	< 34.000 ✓	9.154	< 34.000 ✓
1013	7.232	2.147	1.779	0.022	13.559	< 34.000 ✓	11.158	< 34.000 ✓	9.401	< 34.000 ✓
1014	8.128	2.285	3.221	0.054	15.036	< 34.000 ✓	13.634	< 34.000 ✓	10.468	< 34.000 ✓
1015	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
1016	8.994	2.485	3.138	0.006	16.568	< 34.000 ✓	14.618	< 34.000 ✓	11.485	< 34.000 ✓
1017	9.311	2.505	2.985	0.010	17.043	< 34.000 ✓	14.801	< 34.000 ✓	11.826	< 34.000 ✓
1018	7.667	2.216	1.974	0.011	14.280	< 34.000 ✓	11.858	< 34.000 ✓	9.895	< 34.000 ✓
1019	8.240	2.332	2.542	0.001	15.268	< 34.000 ✓	13.114	< 34.000 ✓	10.573	< 34.000 ✓
1020	8.798	2.426	2.782	0.005	16.200	< 34.000 ✓	14.007	< 34.000 ✓	11.229	< 34.000 ✓
1021	7.314	2.186	2.538	0.024	13.737	< 34.000 ✓	12.038	< 34.000 ✓	9.524	< 34.000 ✓
1022	7.589	2.234	2.851	0.031	14.199	< 34.000 ✓	12.673	< 34.000 ✓	9.854	< 34.000 ✓
1023	7.911	2.286	3.166	0.039	14.732	< 34.000 ✓	13.363	< 34.000 ✓	10.236	< 34.000 ✓
1024	7.180	2.160	2.276	0.019	13.509	< 34.000 ✓	11.617	< 34.000 ✓	9.359	< 34.000 ✓
1025	7.937	2.268	3.052	0.047	14.740	< 34.000 ✓	13.256	< 34.000 ✓	10.252	< 34.000 ✓
1026	8.155	2.317	3.412	0.047	15.124	< 34.000 ✓	13.884	< 34.000 ✓	10.519	< 34.000 ✓
1027	7.302	2.169	2.091	0.017	13.694	< 34.000 ✓	11.563	< 34.000 ✓	9.488	< 34.000 ✓
1028	8.966	2.520	3.583	0.006	16.585	< 34.000 ✓	15.070	< 34.000 ✓	11.493	< 34.000 ✓
1029	9.382	2.552	3.388	0.009	17.218	< 34.000 ✓	15.322	< 34.000 ✓	11.943	< 34.000 ✓
1030	9.354	2.672	4.556	0.010	17.371	< 34.000 ✓	16.582	< 34.000 ✓	12.036	< 34.000 ✓
1031	8.355	2.381	2.938	0.002	15.506	< 34.000 ✓	13.673	< 34.000 ✓	10.738	< 34.000 ✓
1032	7.724	2.243	2.305	0.008	14.402	< 34.000 ✓	12.271	< 34.000 ✓	9.975	< 34.000 ✓
1033	7.482	2.227	2.712	0.018	14.039	< 34.000 ✓	12.422	< 34.000 ✓	9.727	< 34.000 ✓
1034	7.705	2.271	3.022	0.025	14.420	< 34.000 ✓	12.998	< 34.000 ✓	10.001	< 34.000 ✓
1035	7.990	2.320	3.345	0.033	14.898	< 34.000 ✓	13.655	< 34.000 ✓	10.343	< 34.000 ✓
1036	7.985	2.302	3.265	0.040	14.863	< 34.000 ✓	13.552	< 34.000 ✓	10.327	< 34.000 ✓
1037	7.462	2.215	2.469	0.011	13.991	< 34.000 ✓	12.146	< 34.000 ✓	9.688	< 34.000 ✓
1038	8.217	2.353	3.618	0.041	15.269	< 34.000 ✓	14.188	< 34.000 ✓	10.611	< 34.000 ✓
1039	8.499	2.437	3.355	0.005	15.798	< 34.000 ✓	14.290	< 34.000 ✓	10.941	< 34.000 ✓
1040	9.098	2.582	4.023	0.007	16.869	< 34.000 ✓	15.703	< 34.000 ✓	11.688	< 34.000 ✓
1041	9.419	2.595	3.789	0.009	17.340	< 34.000 ✓	15.804	< 34.000 ✓	12.023	< 34.000 ✓
1042	9.037	2.599	4.333	0.013	16.810	< 34.000 ✓	15.969	< 34.000 ✓	11.649	< 34.000 ✓
1043	9.512	2.720	4.938	0.015	17.668	< 34.000 ✓	17.170	< 34.000 ✓	12.247	< 34.000 ✓
1044	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
1045	0.000	0.000	0.000	0.000	0.000	< 34.000 ✓	0.000	< 34.000 ✓	0.000	< 34.000 ✓
1046	9.650	2.718	4.674	0.009	17.858	< 34.000 ✓	17.041	< 34.000 ✓	12.377	< 34.000 ✓
1047	7.862	2.290	2.691	0.006	14.671	< 34.000 ✓	12.843	< 34.000 ✓	10.158	< 34.000 ✓
1048	7.875	2.316	3.202	0.020	14.731	< 34.000 ✓	13.393	< 34.000 ✓	10.212	< 34.000 ✓
1049	7.730	2.284	2.908	0.013	14.476	< 34.000 ✓	12.922	< 34.000 ✓	10.027	< 34.000 ✓
1050	8.206	2.383	3.631	0.028	15.301	< 34.000 ✓	14.220	< 34.000 ✓	10.617	< 34.000 ✓
1051	8.073	2.339	3.450	0.034	15.044	< 34.000 ✓	13.861	< 34.000 ✓	10.445	< 34.000 ✓
1052	8.317	2.393	3.809	0.035	15.473	< 34.000 ✓	14.519	< 34.000 ✓	10.745	< 34.000 ✓
1053	8.069	2.355	3.125	0.009	15.065	< 34.000 ✓	13.549	< 34.000 ✓	10.433	< 34.000 ✓
1054	8.695	2.510	3.815	0.009	16.189	< 34.000 ✓	15.020	< 34.000 ✓	11.214	< 34.000 ✓
1055	9.512	2.651	4.220	0.008	17.559	< 34.000 ✓	16.383	< 34.000 ✓	12.172	< 34.000 ✓
1056	9.278	2.662	4.753	0.017	17.248	< 34.000 ✓	16.693	< 34.000 ✓	11.956	< 34.000 ✓
1057	8.887	2.562	4.218	0.014	16.541	< 34.000 ✓	15.668	< 34.000 ✓	11.463	< 34.000 ✓
1058	8.738	2.526	4.104	0.016	16.274	< 34.000 ✓	15.367	< 34.000 ✓	11.279	< 34.000 ✓
1059	9.783	2.781	5.120	0.012	18.146	< 34.000 ✓	17.684	< 34.000 ✓	12.576	< 34.000 ✓
1060	8.104	2.373	3.396	0.016	15.142	< 34.000 ✓	13.873	< 34.000 ✓	10.493	< 34.000 ✓
1061	8.293	2.412	3.710	0.023	15.470	< 34.000 ✓	14.416	< 34.000 ✓	10.728	< 34.000 ✓
1062	8.457	2.440	3.995	0.030	15.743	< 34.000 ✓	14.892	< 34.000 ✓	10.926	< 34.000 ✓
1063	8.381	2.433	3.817	0.023	15.626	< 34.000 ✓	14.631	< 34.000 ✓	10.837	< 34.000 ✓
1064	8.385	2.439	3.604	0.012	15.641	< 34.000 ✓	14.428	< 34.000 ✓	10.836	< 34.000 ✓
1065	9.053	2.605	4.565	0.020	16.842	< 34.000 ✓	16.223	< 34.000 ✓	11.678	< 34.000 ✓
1066	8.861	2.556	4.232	0.016	16.496	< 34.000 ✓	15.650	< 34.000 ✓	11.433	< 34.000 ✓
1067	8.791	2.539	4.177	0.017	16.370	< 34.000 ✓	15.507	< 34.000 ✓	11.347	< 34.000 ✓
1068	8.504	2.467	3.902	0.019	15.853	< 34.000 ✓	14.874	< 34.000 ✓	10.990	< 34.000 ✓
1069	8.629	2.491	4.182	0.026	16.065	< 34.000 ✓	15.301	< 34.000 ✓	11.145	< 34.000 ✓
1070	8.587	2.487	4.008	0.019	16.002	< 34.000 ✓	15.082	< 34.000 ✓	11.094	< 34.000 ✓
1071	8.828	2.546	4.372	0.023	16.433	< 34.000 ✓	15.746	< 34.000 ✓	11.397	< 34.000 ✓
Gz min	5.791	1.677	1.121	0.001	10.923		8.875		7.760	
Gz max	11.219	2.816	12.045	0.669	19.917		18.512		13.846	
Gz ort	8.274	2.256	3.313	0.107	15.194		12.518		10.637	1002 adet

RADYE TEMEL KOLON ZİMBALAMA HESABI

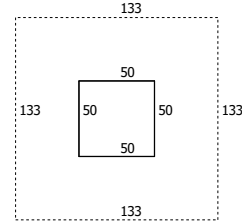
S101

$d = 83 \text{ cm}$ $A_c = 14.74 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = 272.9 \text{ cm}$ $E_y = 246.3 \text{ cm}$
 $I_x = 26.702451 \text{ m}^4$ $I_y = 203.593724 \text{ m}^4$
 $U_p = 1776.24 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 36.25 \text{ (tm)}$ $M_y = 1791.9 \text{ (tm)}$
 $X_t = 98.53 \text{ cm}$ $Y_x = 1.0$ $Y_t = 583.64 \text{ cm}$ $Y_y = 1.0$
 $V_d = 878.80/878.80 \text{ (t)}$ $V_{dq} = 138.57 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd} = 740.22 < V_p = 2033.66 \text{ (t)}$ ZİMBALAMA YETERLİ.
 $V_{yd} = 740.22 < V_p = 2033.66 \text{ (t)}$ ZİMBALAMA YETERLİ.



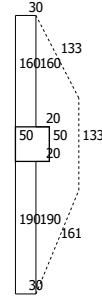
S122

$d = 83 \text{ cm}$ $A_c = 4.415 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = 15.00 \text{ cm}$ $E_y = 24.90 \text{ cm}$
 $I_x = 1.428539 \text{ m}^4$ $I_y = 1.428539 \text{ m}^4$
 $U_p = 532.00 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 0.12 \text{ (tm)}$ $M_y = 3.90 \text{ (tm)}$
 $X_t = 66.5 \text{ cm}$ $Y_x = 0.983$ $Y_t = 66.5 \text{ cm}$ $Y_y = 0.983$
 $V_d = 259.25/259.25 \text{ (t)}$ $V_{dq} = 14.15 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd} = 245.1 < V_p = 598.64 \text{ (t)}$ ZİMBALAMA YETERLİ.
 $V_{yd} = 245.1 < V_p = 598.64 \text{ (t)}$ ZİMBALAMA YETERLİ.



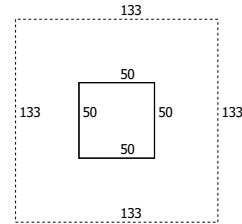
S125

$d = 83 \text{ cm}$ $A_c = 3.545 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = 70.26 \text{ cm}$ $E_y = 38.63 \text{ cm}$
 $I_x = 0.315540 \text{ m}^4$ $I_y = 5.093866 \text{ m}^4$
 $U_p = 427.20 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 0.08 \text{ (tm)}$ $M_y = 1.87 \text{ (tm)}$
 $X_t = 21.14 \text{ cm}$ $Y_x = 0.963$ $Y_t = 201.36 \text{ cm}$ $Y_y = 0.996$
 $V_d = 43.09/43.09 \text{ (t)}$ $V_{dq} = 37.63 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 Panel ara başlıklarında zımbalama kontrolü yapılmayabilir.



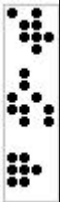
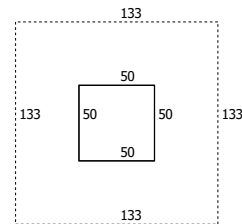
S121

$d = 83 \text{ cm}$ $A_c = 4.415 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = 15.00 \text{ cm}$ $E_y = 24.90 \text{ cm}$
 $I_x = 1.428539 \text{ m}^4$ $I_y = 1.428539 \text{ m}^4$
 $U_p = 532.00 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 0.07 \text{ (tm)}$ $M_y = 3.88 \text{ (tm)}$
 $X_t = 66.5 \text{ cm}$ $Y_x = 0.983$ $Y_t = 66.5 \text{ cm}$ $Y_y = 0.983$
 $V_d = 262.94/262.94 \text{ (t)}$ $V_{dq} = 15.92 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd} = 247.02 < V_p = 598.93 \text{ (t)}$ ZİMBALAMA YETERLİ.
 $V_{yd} = 247.02 < V_p = 598.93 \text{ (t)}$ ZİMBALAMA YETERLİ.



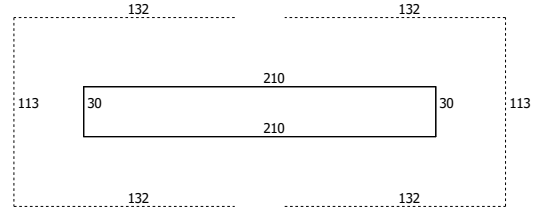
S124

$d = 83 \text{ cm}$ $A_c = 4.415 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = 15.00 \text{ cm}$ $E_y = 24.90 \text{ cm}$
 $I_x = 1.428539 \text{ m}^4$ $I_y = 1.428539 \text{ m}^4$
 $U_p = 532.00 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 1.12 \text{ (tm)}$ $M_y = 1.12 \text{ (tm)}$
 $X_t = 66.5 \text{ cm}$ $Y_x = 0.988$ $Y_t = 66.5 \text{ cm}$ $Y_y = 0.988$
 $V_d = 201.98/201.98 \text{ (t)}$ $V_{dq} = 19.45 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd} = 182.52 < V_p = 601.56 \text{ (t)}$ ZİMBALAMA YETERLİ.
 $V_{yd} = 182.52 < V_p = 601.56 \text{ (t)}$ ZİMBALAMA YETERLİ.



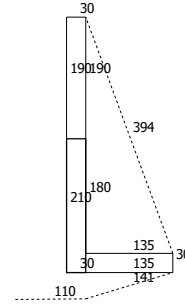
S104

d= 83 cm $A_c = 6.241m^2$ $\Phi_x=0, \Phi_y=0$
 $E_x = -100. \text{ cm}$ $E_y = -14.9 \text{ cm}$
 $I_x = 7.752390 \text{ m}^4$ $I_y = 1.700960 \text{ m}^4$
 $U_p = 752.00 \text{ cm}$ $f_{ctd}=137.94 \text{ t/m}^2$
 $M_x = 1.78 \text{ (tm)}$ $M_y = 2.06 \text{ (tm)}$
 $X_t = 146.5 \text{ cm}$ $Y_x=0.999$ $Y_t = 56.49 \text{ cm}$ $Y_y=0.992$
 $V_d = 375.52/375.52 \text{ (t)}$ $V_{dq}= 19.86 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd}=355.65 < V_p= 859.72 \text{ (t)}$ ZİMBALAMA YETERLİ.
 $V_{yd}=355.65 < V_p= 853.79 \text{ (t)}$ ZİMBALAMA YETERLİ.



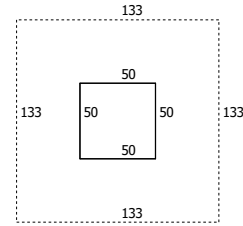
S108

d= 83 cm $A_c = 5.353m^2$ $\Phi_x=0, \Phi_y=0$
 $E_x = 76.55 \text{ cm}$ $E_y = -119. \text{ cm}$
 $I_x = 3.041886 \text{ m}^4$ $I_y = 11.880687 \text{ m}^4$
 $U_p = 644.98 \text{ cm}$ $f_{ctd}=137.94 \text{ t/m}^2$
 $M_x = 0.14 \text{ (tm)}$ $M_y = 49.73 \text{ (tm)}$
 $X_t = 88.34 \text{ cm}$ $Y_x=0.77$ $Y_t = 161.5 \text{ cm}$ $Y_y=0.912$
 $V_d = 115.47/115.47 \text{ (t)}$ $V_{dq}= 42.34 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 Panel ara başlıklarında zımbalama kontrolu yapılmayabilir.



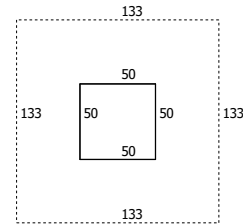
S123

d= 83 cm $A_c = 4.415m^2$ $\Phi_x=0, \Phi_y=0$
 $E_x = 15.00 \text{ cm}$ $E_y = 24.90 \text{ cm}$
 $I_x = 1.428539 \text{ m}^4$ $I_y = 1.428539 \text{ m}^4$
 $U_p = 532.00 \text{ cm}$ $f_{ctd}=137.94 \text{ t/m}^2$
 $M_x = 0.61 \text{ (tm)}$ $M_y = 1.46 \text{ (tm)}$
 $X_t = 66.5 \text{ cm}$ $Y_x=0.99$ $Y_t = 66.5 \text{ cm}$ $Y_y=0.99$
 $V_d = 240.71/240.71 \text{ (t)}$ $V_{dq}= 17.68 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd}=223.02 < V_p= 603.27 \text{ (t)}$ ZİMBALAMA YETERLİ.
 $V_{yd}=223.02 < V_p= 603.27 \text{ (t)}$ ZİMBALAMA YETERLİ.



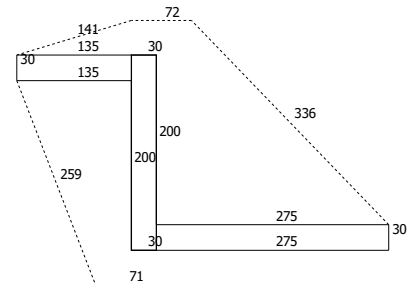
S120

d= 83 cm $A_c = 4.415m^2$ $\Phi_x=0, \Phi_y=0$
 $E_x = 15.00 \text{ cm}$ $E_y = 24.90 \text{ cm}$
 $I_x = 1.428539 \text{ m}^4$ $I_y = 1.428539 \text{ m}^4$
 $U_p = 532.00 \text{ cm}$ $f_{ctd}=137.94 \text{ t/m}^2$
 $M_x = 0.71 \text{ (tm)}$ $M_y = 1.08 \text{ (tm)}$
 $X_t = 66.5 \text{ cm}$ $Y_x=0.988$ $Y_t = 66.5 \text{ cm}$ $Y_y=0.988$
 $V_d = 162.35/162.35 \text{ (t)}$ $V_{dq}= 17.68 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd}=144.66 < V_p= 601.63 \text{ (t)}$ ZİMBALAMA YETERLİ.
 $V_{yd}=144.66 < V_p= 601.63 \text{ (t)}$ ZİMBALAMA YETERLİ.



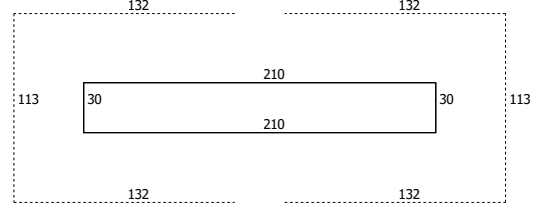
S109

d= 83 cm $A_c = 7.296m^2$ $\Phi_x=0, \Phi_y=0$
 $E_x = 37.43 \text{ cm}$ $E_y = -39.9 \text{ cm}$
 $I_x = 13.920061 \text{ m}^4$ $I_y = 8.556714 \text{ m}^4$
 $U_p = 879.12 \text{ cm}$ $f_{ctd}=137.94 \text{ t/m}^2$
 $M_x = 0.07 \text{ (tm)}$ $M_y = 42.50 \text{ (tm)}$
 $X_t = 267.46 \text{ cm}$ $Y_x=1.0$ $Y_t = 131.56 \text{ cm}$ $Y_y=0.774$
 $V_d = 119.02/100.67 \text{ (t)}$ $V_{dq}= 42.54 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 Panel ara başlıklarında zımbalama kontrolu yapılmayabilir.



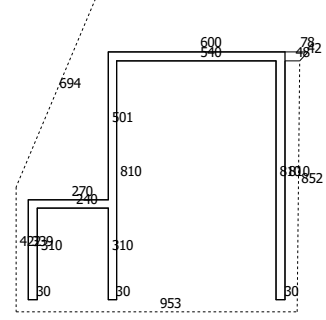
S105

d= 83 cm $A_c = 6.241m^2$ $\Phi_x=0, \Phi_y=0$
 $E_x = -100. \text{ cm}$ $E_y = -14.9 \text{ cm}$
 $I_x = 7.752390 \text{ m}^4$ $I_y = 1.700960 \text{ m}^4$
 $U_p = 752.00 \text{ cm}$ $f_{ctd}=137.94 \text{ t/m}^2$
 $M_x = 1.24 \text{ (tm)}$ $M_y = 2.07 \text{ (tm)}$
 $X_t = 146.5 \text{ cm}$ $Y_x=0.999$ $Y_t = 56.49 \text{ cm}$ $Y_y=0.992$
 $V_d = 337.22/337.22 \text{ (t)}$ $V_{dq} = 26.48 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd}=310.73 < V_p = 860.01 \text{ (t)}$ ZİMBALAMA YETERLİ.
 $V_{yd}=310.73 < V_p = 854.07 \text{ (t)}$ ZİMBALAMA YETERLİ.



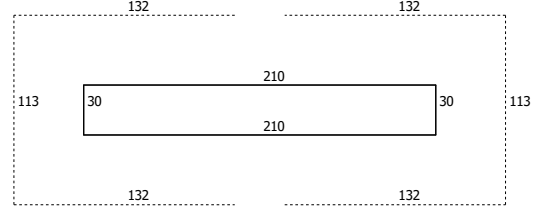
S102

d= 83 cm $A_c = 24.24m^2$ $\Phi_x=0, \Phi_y=0$
 $E_x = 424.7 \text{ cm}$ $E_y = -35.4 \text{ cm}$
 $I_x = 378.719864 \text{ m}^4$ $I_y = 265.390346 \text{ m}^4$
 $U_p = 2920.70 \text{ cm}$ $f_{ctd}=137.94 \text{ t/m}^2$
 $M_x = 83.44 \text{ (tm)}$ $M_y = 401.55 \text{ (tm)}$
 $X_t = 486.71 \text{ cm}$ $Y_x=1.0$ $Y_t = 730.59 \text{ cm}$ $Y_y=1.0$
 $V_d = 1674.0/1674.0 \text{ (t)}$ $V_{dq} = 259.4 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd}=1414.68 < V_p = 3343.97 \text{ (t)}$ ZİMBALAMA YETERLİ.
 $V_{yd}=1414.68 < V_p = 3343.97 \text{ (t)}$ ZİMBALAMA YETERLİ.



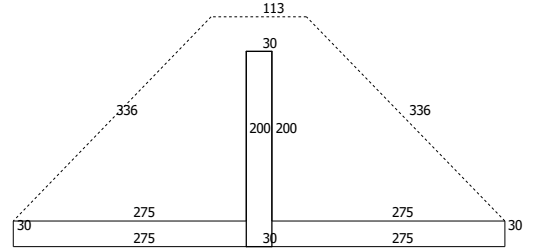
S106

d= 83 cm $A_c = 6.241m^2$ $\Phi_x=0, \Phi_y=0$
 $E_x = -55.0 \text{ cm}$ $E_y = 14.90 \text{ cm}$
 $I_x = 7.752390 \text{ m}^4$ $I_y = 1.700960 \text{ m}^4$
 $U_p = 752.00 \text{ cm}$ $f_{ctd}=137.94 \text{ t/m}^2$
 $M_x = 0.66 \text{ (tm)}$ $M_y = 1.12 \text{ (tm)}$
 $X_t = 146.5 \text{ cm}$ $Y_x=1.0$ $Y_t = 56.5 \text{ cm}$ $Y_y=0.995$
 $V_d = 275.71/275.71 \text{ (t)}$ $V_{dq} = 26.48 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd}=249.22 < V_p = 860.63 \text{ (t)}$ ZİMBALAMA YETERLİ.
 $V_{yd}=249.22 < V_p = 856.41 \text{ (t)}$ ZİMBALAMA YETERLİ.



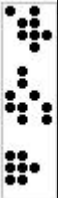
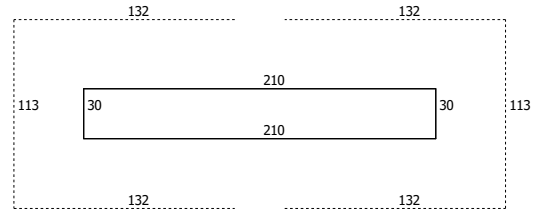
S110

d= 83 cm $A_c = 6.514m^2$ $\Phi_x=0, \Phi_y=0$
 $E_x = 14.90 \text{ cm}$ $E_y = -68.1 \text{ cm}$
 $I_x = 20.758901 \text{ m}^4$ $I_y = 5.170702 \text{ m}^4$
 $U_p = 784.85 \text{ cm}$ $f_{ctd}=137.94 \text{ t/m}^2$
 $M_x = 0.03 \text{ (tm)}$ $M_y = 1.03 \text{ (tm)}$
 $X_t = 290 \text{ cm}$ $Y_x=1.0$ $Y_t = 103.36 \text{ cm}$ $Y_y=0.996$
 $V_d = 160.61/160.61 \text{ (t)}$ $V_{dq} = 34.36 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 Panel ara başlıklarında zımbalama kontrolü yapılmayabilir.



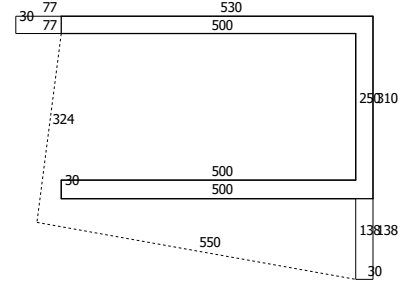
S107

d= 83 cm $A_c = 6.241m^2$ $\Phi_x=0, \Phi_y=0$
 $E_x = 100.0 \text{ cm}$ $E_y = 14.90 \text{ cm}$
 $I_x = 7.752390 \text{ m}^4$ $I_y = 1.700960 \text{ m}^4$
 $U_p = 752.00 \text{ cm}$ $f_{ctd}=137.94 \text{ t/m}^2$
 $M_x = 0.04 \text{ (tm)}$ $M_y = 0.90 \text{ (tm)}$
 $X_t = 146.49 \text{ cm}$ $Y_x=1.0$ $Y_t = 56.5 \text{ cm}$ $Y_y=0.997$
 $V_d = 258.65/258.65 \text{ (t)}$ $V_{dq} = 29.79 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd}=228.85 < V_p = 860.94 \text{ (t)}$ ZİMBALAMA YETERLİ.
 $V_{yd}=228.85 < V_p = 858.42 \text{ (t)}$ ZİMBALAMA YETERLİ.

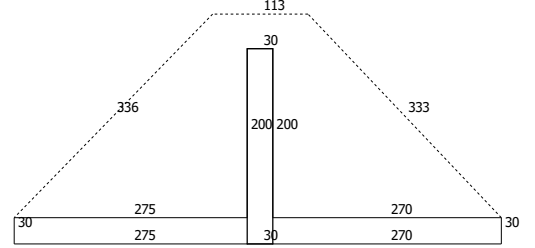


S103

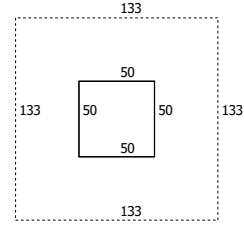
$d = 83 \text{ cm}$ $A_c = 7.255 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = -393. \text{ cm}$ $E_y = 322.2 \text{ cm}$
 $I_x = 22.490728 \text{ m}^4$ $I_y = 11.949136 \text{ m}^4$
 $U_p = 874.19 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 566.66 \text{ (tm)}$ $M_y = 28.45 \text{ (tm)}$
 $X_t = 178.04 \text{ cm}$ $Y_x = 1.0$ $Y_t = 29.24 \text{ cm}$ $Y_y = 1.0$
 $V_d = 640.49/640.49 \text{ (t)}$ $V_{dq} = 143.94 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 Panel ara başlıklarında zımbalama kontrolu yapılmayabilir.

**S111**

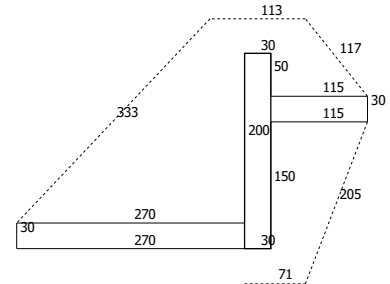
$d = 83 \text{ cm}$ $A_c = 6.485 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = 13.09 \text{ cm}$ $E_y = -68.2 \text{ cm}$
 $I_x = 20.359396 \text{ m}^4$ $I_y = 5.131636 \text{ m}^4$
 $U_p = 781.43 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 0.01 \text{ (tm)}$ $M_y = 1.14 \text{ (tm)}$
 $X_t = 286.86 \text{ cm}$ $Y_x = 1.0$ $Y_t = 103.28 \text{ cm}$ $Y_y = 0.996$
 $V_d = 160.74/160.74 \text{ (t)}$ $V_{dq} = 51.32 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 Panel ara başlıklarında zımbalama kontrolu yapılmayabilir.

**S119**

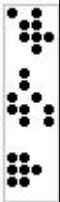
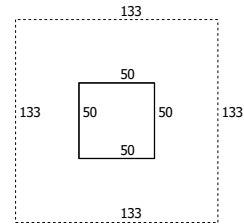
$d = 83 \text{ cm}$ $A_c = 4.415 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = -24.9 \text{ cm}$ $E_y = 24.90 \text{ cm}$
 $I_x = 1.428539 \text{ m}^4$ $I_y = 1.428539 \text{ m}^4$
 $U_p = 532.00 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 1.08 \text{ (tm)}$ $M_y = 1.41 \text{ (tm)}$
 $X_t = 66.5 \text{ cm}$ $Y_x = 0.988$ $Y_t = 66.5 \text{ cm}$ $Y_y = 0.988$
 $V_d = 239.33/239.33 \text{ (t)}$ $V_{dq} = 19.45 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd} = 219.88 < V_p = 602.04 \text{ (t)}$ ZIMBALAMA YETERLİ.
 $V_{yd} = 219.88 < V_p = 602.04 \text{ (t)}$ ZIMBALAMA YETERLİ.

**S112**

$d = 83 \text{ cm}$ $A_c = 6.968 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = -25.0 \text{ cm}$ $E_y = -37.5 \text{ cm}$
 $I_x = 12.198581 \text{ m}^4$ $I_y = 8.314185 \text{ m}^4$
 $U_p = 839.54 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 0.02 \text{ (tm)}$ $M_y = 0.23 \text{ (tm)}$
 $X_t = 160.08 \text{ cm}$ $Y_x = 1.0$ $Y_t = 133.96 \text{ cm}$ $Y_y = 0.999$
 $V_d = 140.69/140.69 \text{ (t)}$ $V_{dq} = 42.17 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 Panel ara başlıklarında zımbalama kontrolu yapılmayabilir.

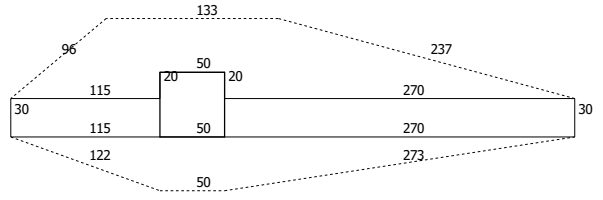
**S118**

$d = 83 \text{ cm}$ $A_c = 4.415 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = 24.90 \text{ cm}$ $E_y = 24.90 \text{ cm}$
 $I_x = 1.428539 \text{ m}^4$ $I_y = 1.428539 \text{ m}^4$
 $U_p = 532.00 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 0.29 \text{ (tm)}$ $M_y = 1.37 \text{ (tm)}$
 $X_t = 66.5 \text{ cm}$ $Y_x = 0.994$ $Y_t = 66.5 \text{ cm}$ $Y_y = 0.994$
 $V_d = 311.34/311.34 \text{ (t)}$ $V_{dq} = 17.68 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 $V_{xd} = 293.65 < V_p = 605.45 \text{ (t)}$ ZIMBALAMA YETERLİ.
 $V_{yd} = 293.65 < V_p = 605.45 \text{ (t)}$ ZIMBALAMA YETERLİ.

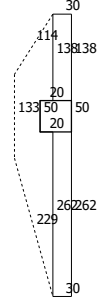


S113

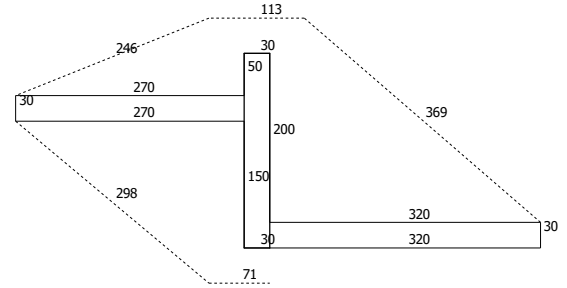
$d = 83 \text{ cm}$ $A_c = 7.560 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = 48.02 \text{ cm}$ $E_y = 25.68 \text{ cm}$
 $I_x = 12.757456 \text{ m}^4$ $I_y = 2.343026 \text{ m}^4$
 $U_p = 910.85 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 0.00 \text{ (tm)}$ $M_y = 1.27 \text{ (tm)}$
 $X_t = 221.97 \text{ cm}$ $Y_x = 1.0$ $Y_t = 65.72 \text{ cm}$ $Y_y = 0.979$
 $V_d = 50.61 / 50.61 \text{ (t)}$ $V_{dq} = 0 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 Panel ara başlıklarında zımbalama kontrolu yapılmayabilir.

**S116**

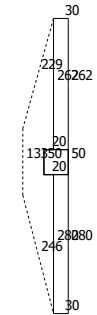
$d = 83 \text{ cm}$ $A_c = 3.952 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = -69.2 \text{ cm}$ $E_y = 82.27 \text{ cm}$
 $I_x = 0.411465 \text{ m}^4$ $I_y = 7.144701 \text{ m}^4$
 $U_p = 476.22 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 0.53 \text{ (tm)}$ $M_y = 1.46 \text{ (tm)}$
 $X_t = 22.12 \text{ cm}$ $Y_x = 0.978$ $Y_t = 220.36 \text{ cm}$ $Y_y = 0.997$
 $V_d = 68.06 / 68.06 \text{ (t)}$ $V_{dq} = 42.49 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 Panel ara başlıklarında zımbalama kontrolu yapılmayabilir.

**S114**

$d = 83 \text{ cm}$ $A_c = 9.107 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = -5.30 \text{ cm}$ $E_y = -41.2 \text{ cm}$
 $I_x = 30.087825 \text{ m}^4$ $I_y = 11.011765 \text{ m}^4$
 $U_p = 1097.30 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 0.04 \text{ (tm)}$ $M_y = 0.90 \text{ (tm)}$
 $X_t = 355.3 \text{ cm}$ $Y_x = 1.0$ $Y_t = 130.23 \text{ cm}$ $Y_y = 0.996$
 $V_d = 158.81 / 158.81 \text{ (t)}$ $V_{dq} = 36.04 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 Panel ara başlıklarında zımbalama kontrolu yapılmayabilir.

**S117**

$d = 83 \text{ cm}$ $A_c = 5.047 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = -67.4 \text{ cm}$ $E_y = 33.64 \text{ cm}$
 $I_x = 0.619894 \text{ m}^4$ $I_y = 15.194380 \text{ m}^4$
 $U_p = 608.17 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 1.17 \text{ (tm)}$ $M_y = 0.12 \text{ (tm)}$
 $X_t = 23.98 \text{ cm}$ $Y_x = 0.984$ $Y_t = 295.69 \text{ cm}$ $Y_y = 1.0$
 $V_d = 53.17 / 53.17 \text{ (t)}$ $V_{dq} = 48.78 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 Panel ara başlıklarında zımbalama kontrolu yapılmayabilir.

**S115**

$d = 83 \text{ cm}$ $A_c = 8.374 \text{ m}^2$ $\Phi_x = 0, \Phi_y = 0$
 $E_x = -166. \text{ cm}$ $E_y = -45.5 \text{ cm}$
 $I_x = 13.896450 \text{ m}^4$ $I_y = 29.172943 \text{ m}^4$
 $U_p = 1008.96 \text{ cm}$ $f_{ctd} = 137.94 \text{ t/m}^2$
 $M_x = 0.11 \text{ (tm)}$ $M_y = 46.04 \text{ (tm)}$
 $X_t = 183.56 \text{ cm}$ $Y_x = 0.86$ $Y_t = 364.52 \text{ cm}$ $Y_y = 0.86$
 $V_d = 169.69 / 169.69 \text{ (t)}$ $V_{dq} = 50.06 \text{ (t)}$
 $V_p = Y \cdot f_{ctd} \cdot U_p \cdot d > V_d - V_{dq}$
 Panel ara başlıklarında zımbalama kontrolu yapılmayabilir.

