



Your solution partner since 96

SLABFORM-LT

SHORING SCAFFOLDING



SLABFORM - LT

KALIP ALTI İSKELE

Slabform döşeme ve kiriş altında taşıyıcı iskele olarak kullanılır. Masa kalıbı, ağır yük iskelesi ve merdiven kulesi gibi 3 farklı şekilde kullanılabilir. Zemini teraziye almak için TS EN 74-3 sertifikalı alt ayar milleri, döşeme ve kiriş altını teraziye almak için ise 4 yollu veya U başlıklı üst ayar milleri kullanılır. Slabform demonte edilmeden taşıma arabaları ve vinç ile deplase edilebildiği için işçilik maliyetlerinden ve zamandan tasarruf sağlar. Çerçeveler standart olarak 150 cm genişliğinde ve 120 - 150 - 180 - 200 cm yüksekliğinde üretilir. TS EN 12813 sertifikalı Slabform çerçeveler 60*3,0 veya 60*4,0 mm, yatay ve diyagonal bağlantılar ise 34*2,5 mm TSE belgeli mekanik testlere tabi tutulmuş sanayi borularından üretilir. Üretimlerimizde robotik kesme, delme ve kaynak prosesleri uygulanmaktadır. Çerçeveler fırın boya işlemine tabi tutulmadan önce kumlama yapılarak yüzeyindeki kimyasal yağlardan arındırılır. Ayrıca talep halinde ürünlerimiz TS 914 EN ISO 1461 standartlarına göre daldırma galvaniz kaplanabilir.



SLABFORM - LT

SHORING SCAFFOLDING

SLABFORM-LT is used as carrier scaffolding under slab and beam. TS EN 74-3 certified base and head jacks are used to balance the floor and the bottom of the formwork. The SLABFORM-LT can be displaced by transport trolleys and crane without disassembly, thus saving labor costs and time. The frames are manufactured as 120 cm width and 120 - 150 - 180 cm high as standard. TS EN 12813 certified SLABFORM-LT frames are produced from 48 * 3.0 or 48 * 4.0 mm, and horizontal and diagonal braces are produced from 34 * 2.5 mm TSE certified mechanical tubes. Robotic cutting, drilling and welding processes are applied in our production. The steel products are cleaned with sandblasting before oven painting because of the industrial chemical oil. Upon request, our products can be hot dip galvanized according to TS 914 EN ISO 1461 standards.

SLABFORM-LT

SHORING SCAFFOLDING

Malzeme Kalitesi | Material Quality

DIN 17100 : St 12, St 33, St 37, St 44, St 52
EN 10025 : S 195, S 235 JR, S 235 J0, S 235 J2
: S 275 JR, S 235 J0, S 235 J2
: S 355 JR, S 355 J0, S 355 J2, S 355 K2

ASTM A 500 : Gr A, Gr B, Gr C, Gr D
SI 1458 : A 1458, B 1458, C 1458
BS 6363 : Gr 34/26, Gr 43/36
EN 10305-3 : E 190, E 220, E 260, E 320, E 370

Boru Uçları | Finishing Operations

Düz Uçlu | Square Cut

Yüzey Durumu | Surface Protection

Koruyucu Yağı | Protective Oil upon Request
Sıcak Daldırma Galvanizli | Hot Dip Galvanized
Astar Boyalı | Primer Coated

Test Sertifikası | Mill Test Certificates

EN 10204 (TS EN 10204) 'ye göre 2.1, 2.2, 3.1, 3.2 belgeleri
According to EN 10204 2.1, 2.2, 3.1, 3.2

Üretim standartları | Production Standards :

EN 10305-3 (TS EN 10305-3),
EN 10219 (TS EN 10219) CE MARKED,
DIN 2394, DIN 1615,
BS 6363, ASTM A 500, SI 1458

SANAYİ BORULARI
INDUSTRIAL PIPES

Kalite Kontrol | Quality Control

- A - Mekanik Testler | Destructive Tests**
: Yassılma Testi | Flattening Test,
: Ağz Genişletme Testi | Expanding Test,
: Çekme Testi | Tensile test
: Çentik Darbe Testi | Charpy V Notch Impact Test
- B - Kimyasal Analiz | Chemical Analysis**
: Spektrel Analiz | Spectral Analysis
- C - Görsel ve Boyutsal Kontrol | Visual and Dimensional Check**

ÜRETİM MATRİSİ- Sanayi Boruları | PRODUCTION RANGE - Industrial Pipes

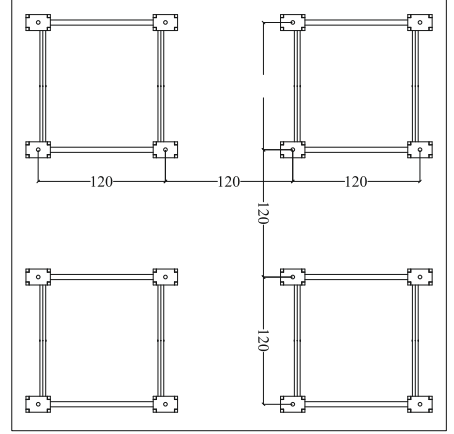
Dış Çap ve Et Kalınlığı | Outside Diameter and Wall Thickness

| Ebat Size mm | Et Kalınlığı (mm) Wall Thickness (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|--|
| | 0,6 | 0,7 | 0,8 | 0,9 | 1,0 | 1,2 | 1,5 | 2,0 | 2,5 | 2,6 | 3,0 | 3,2 | 3,5 | 3,6 | 4,0 | 4,5 | 5,0 | 5,5 | 6,0 | 7,0 | 8,0 | 9,0 | 10,0 | 11,0 | 12,5 | 13,0 | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26,9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28,6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88,9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 96 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 101,6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 114,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 139,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 152,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 159 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 165,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 168,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 177,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 193,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 219,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 244,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 273 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 323,9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 339,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Bu hesaplama sadece iskele ayağının taşıma kapasitesini gösterir. Kullanılacak ana taşıyıcı (H20 - 10x10 Ahşap veya Özel Ölçü Ahşap) tipine göre , projenize uygun yerleşim planı DIN 4421 'e göre ÖZLER tarafından yeniden tasarlanacaktır.

This calculation shows just scaffolding leg loading capacity. According to type of your main beam (H20 - 10*10 Wood or Special type of Wood) suitable design will be given by ÖZLER according DIN 4421 standard.

Maximum Slab Thickness : 50 cm
 Maximum Spindle Working Height : 75 cm (TS EN 12812 / 7.3.2)
 Scaffold Tube Specification : Ø48 x 3 mm
 Spindle Tube Specification : Ø38 x 4 mm



| PART | GIRDER DISTANCE W2 cm | SLAB D cm | SCAFFOLD WIDTH W1 cm | MX. MAIN BEAM DISTANCE L2 cm |
|--------------|-----------------------|-----------|--|------------------------------|
| DIMENSION cm | 120,00 | 50,00 | 120,00 | 120,00 |
| | | | SLAB CONCRETE LOAD kN/m ² | 13,00 |
| | | | LIVE LOAD kN/m ² | 2,60 |
| | | | DEAD LOAD kN/m ² | 0,40 |
| | | | SLAB TOTAL LOAD kN/m ² | 16,00 |
| | | | ARE OF SCAAFOLD PIPE m ² ((W2/2)+(W3/2))xL2 | 1,44 |
| | | | LOAD OF SCAAFOLD LEG kN | 23,04 |

| SCAFFOLD PIPE | |
|-------------------------------------|----------|
| PIPE OUTER DIMENSION "D" | 48,00 mm |
| PIPE THICKNESS "t" | 3,00 mm |
| PIE INTERN DIMENSION "d" d = (D-2t) | 42,00 mm |

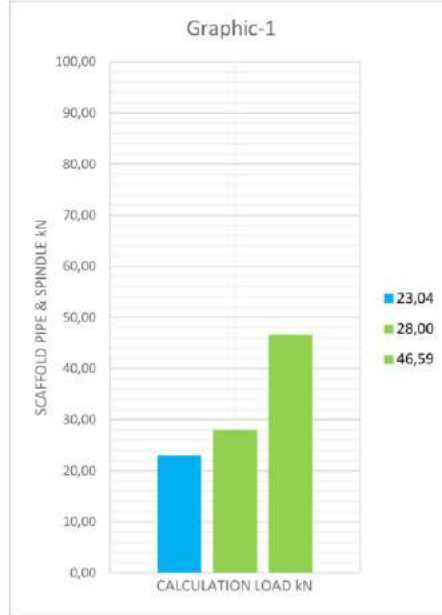
| | |
|---|-----------------------|
| Pi NUMBER "p" | 3,14 |
| AREA OF PIPE SECTION "F" $F = ((p/4)*(D^2-d^2))$ | 4,24 cm ² |
| SECOND MOMENT OF INERTIA "I" $I = ((p/64)*(D^4-d^4))$ | 10,78 cm ⁴ |
| SECOND MOMENT HALF DIAMETER "i" $i = \sqrt{I/F}$ | 1,59 cm |
| UNIT WEIGHT | 3,33 kg/mt |

| | |
|--|-----------------------------|
| ST37 STEEL SAFETY FACTOR - RUPTURE | 3.737,00 kg/cm ² |
| ST37 STEEL SAFETY FACTOR - FLOWING | 2.400,00 kg/cm ² |
| ST37 STEEL SAFETY FACTOR - SAFETY SIDE | 1.440,00 kg/cm ² |

| | |
|-------------------------------|-----------------------------|
| SYSTEM LENGHT "s" | 180,00 cm |
| SPRAIN FACTOR "w" $w = s/i$ | 2,18 113 |
| ST37 STEEL SAFETY FACTOR "σe" | 1.440,00 kg/cm ² |

| | |
|---------------------------------------|----------|
| AXIS LOAD "Pmax" $Pmax = ((Gem*F)/w)$ | 28,00 kN |
|---------------------------------------|----------|

SYSTEM CAPACITY - OK



| SCAFFOLD SPINDLE | |
|-------------------------------------|----------|
| PIPE OUTER DIMENSION "D" | 38,00 mm |
| PIPE THICKNESS "t" | 4,00 mm |
| PIE INTERN DIMENSION "d" d = (D-2t) | 30,00 mm |

| | |
|---|----------------------|
| Pi NUMBER "p" | 3,14 |
| AREA OF PIPE SECTION "F" $F = ((p/4)*(D^2-d^2))$ | 4,27 cm ² |
| SECOND MOMENT OF INERTIA "I" $I = ((p/64)*(D^4-d^4))$ | 6,26 cm ⁴ |
| SECOND MOMENT HALF DIAMETER "i" $i = \sqrt{I/F}$ | 1,21 cm |
| UNIT WEIGHT | 3,35 kg/mt |

| | |
|--|-----------------------------|
| ST37 STEEL SAFETY FACTOR - RUPTURE | 3.737,00 kg/cm ² |
| ST37 STEEL SAFETY FACTOR - FLOWING | 2.400,00 kg/cm ² |
| ST37 STEEL SAFETY FACTOR - SAFETY SIDE | 1.440,00 kg/cm ² |

| | |
|-------------------------------|-----------------------------|
| SYSTEM LENGHT "s" | 75,00 cm |
| SPRAIN FACTOR "w" $w = s/i$ | 1,32 62 |
| ST37 STEEL SAFETY FACTOR "σe" | 1.440,00 kg/cm ² |

| | |
|---------------------------------------|----------|
| AXIS LOAD "Pmax" $Pmax = ((Gem*F)/w)$ | 46,59 kN |
|---------------------------------------|----------|

SYSTEM CAPACITY - OK

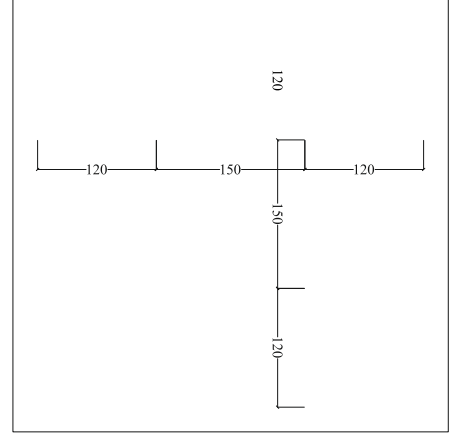
| SPRAIN FACTOR | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---------------|------|------|------|------|------|------|------|------|------|------|
| 20 | 1,04 | 1,04 | 1,04 | 1,05 | 1,05 | 1,06 | 1,06 | 1,07 | 1,07 | 1,08 |
| 30 | 1,09 | 1,09 | 1,09 | 1,10 | 1,10 | 1,11 | 1,11 | 1,12 | 1,13 | 1,13 |
| 40 | 1,14 | 1,14 | 1,15 | 1,16 | 1,16 | 1,17 | 1,18 | 1,19 | 1,19 | 1,20 |
| 50 | 1,21 | 1,22 | 1,23 | 1,23 | 1,24 | 1,25 | 1,26 | 1,27 | 1,28 | 1,29 |
| 60 | 1,30 | 1,31 | 1,32 | 1,33 | 1,34 | 1,35 | 1,36 | 1,37 | 1,39 | 1,40 |
| 70 | 1,41 | 1,42 | 1,44 | 1,45 | 1,46 | 1,48 | 1,49 | 1,50 | 1,52 | 1,53 |
| 80 | 1,55 | 1,56 | 1,58 | 1,59 | 1,61 | 1,62 | 1,64 | 1,66 | 1,68 | 1,69 |
| 90 | 1,71 | 1,73 | 1,74 | 1,76 | 1,78 | 1,80 | 1,82 | 1,84 | 1,86 | 1,88 |
| 100 | 1,90 | 1,92 | 1,94 | 1,96 | 1,98 | 2,00 | 2,02 | 2,05 | 2,04 | 2,09 |
| 110 | 2,11 | 2,14 | 2,16 | 2,18 | 2,21 | 2,23 | 2,27 | 2,31 | 2,35 | 2,39 |
| 120 | 2,43 | 2,47 | 2,51 | 2,55 | 2,60 | 2,64 | 2,68 | 2,72 | 2,77 | 2,81 |
| 130 | 2,85 | 2,90 | 2,94 | 2,99 | 3,03 | 3,08 | 3,12 | 3,17 | 3,22 | 3,26 |
| 140 | 3,31 | 3,36 | 3,41 | 3,45 | 3,50 | 3,55 | 3,60 | 3,65 | 3,70 | 3,75 |
| 150 | 3,80 | 3,85 | 3,90 | 3,95 | 4,00 | 4,06 | 4,11 | 4,16 | 4,22 | 4,27 |
| 160 | 4,32 | 4,38 | 4,43 | 4,49 | 4,54 | 4,60 | 4,65 | 4,71 | 4,77 | 4,82 |
| 170 | 4,88 | 4,94 | 5,00 | 5,05 | 5,11 | 5,17 | 5,23 | 5,29 | 5,35 | 5,41 |
| 180 | 5,47 | 5,53 | 5,59 | 5,66 | 5,72 | 5,78 | 5,84 | 5,91 | 5,97 | 6,03 |
| 190 | 6,10 | 6,16 | 6,23 | 6,29 | 6,36 | 6,42 | 6,49 | 6,55 | 6,62 | 6,69 |
| 200 | 6,75 | 6,82 | 6,89 | 6,96 | 7,03 | 7,10 | 7,17 | 7,24 | 7,31 | 7,38 |

SLABFORM-LT SHORING SCAFFOLDING

Bu hesaplama sadece iskele ayağının taşıma kapasitesini gösterir. Kullanılacak ana taşıyıcı (H20 - 10x10 Ahşap veya Özel Ölçü Ahşap) tipine göre , projenize uygun yerleşim planı DIN 4421 'e göre ÖZLER tarafından yeniden tasarlanacaktır.

This calculation shows just scaffolding leg loading capacity. According to type of your main beam (H20 - 10*10 Wood or Special type of Wood) suitable design will be given by ÖZLER according DIN 4421 standard.

Maximum Slab Thickness : 40 cm
Maximum Spindle Working Height : 75 cm (TS EN 12812 / 7.3.2)
Scaffold Tube Specification : Ø48 x 3 mm
Spindle Tube Specification : Ø38 x 4 mm



| PART | GIRDER DISTANCE W2 cm | SLAB D cm | SCAFFOLD WIDTH W1 cm | MX. MAIN BEAM DISTANCE L2 cm |
|--|-----------------------|-----------|----------------------|------------------------------|
| DIMENSION cm | 150,00 | 40,00 | 120,00 | 150,00 |
| SLAB CONCRETE LOAD kN/m ² | | | | 10,40 |
| LIVE LOAD kN/m ² | | | | 2,08 |
| DEAD LOAD kN/m ² | | | | 0,40 |
| SLAB TOTAL LOAD kN/m ² | | | | 12,88 |
| ARE OF SCAFFOLD PIPE m ² ((W2/2)+(W3/2))xL2 | | | | 2,03 |
| LOAD OF SCAFFOLD LEG kN | | | | 26,08 |

| SCAFFOLD PIPE | |
|-------------------------------------|------------|
| PIPE OUTER DIMENSION "D" | : 48,00 mm |
| PIPE THICKNESS "t" | : 3,00 mm |
| PIE INTERN DIMENSION "d" d = (D-2t) | : 42,00 mm |

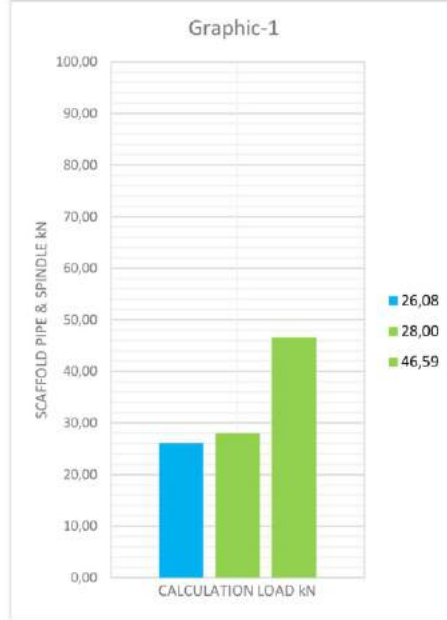
| | |
|---|-------------------------|
| PI NUMBER "p" | : 3,14 |
| AREA OF PIPE SECTION "F" $F = ((p/4)*(D^2-d^2))$ | : 4,24 cm ² |
| SECOND MOMENT OF INERTIA "I" $I = ((p/64)*(D^4-d^4))$ | : 10,78 cm ⁴ |
| SECOND MOMENT HALF DIAMETER "i" $i = \sqrt{I/F}$ | : 1,59 cm |
| UNIT WEIGHT | : 3,33 kg/mt |

| | |
|--|-------------------------------|
| ST37 STEEL SAFETY FACTOR - RUPTURE | : 3.737,00 kg/cm ² |
| ST37 STEEL SAFETY FACTOR - FLOWING | : 2.400,00 kg/cm ² |
| ST37 STEEL SAFETY FACTOR - SAFETY SIDE | : 1.440,00 kg/cm ² |

| | |
|-------------------------------|-------------------------------|
| SYSTEM LENGHT "s" | : 180,00 cm |
| SPRAIN FACTOR "w" $w = s/i$ | : 2,18 113 |
| ST37 STEEL SAFETY FACTOR "ae" | : 1.440,00 kg/cm ² |

| | |
|---|------------|
| AXIS LOAD "Pmax" $P_{max} = ((G_{em}*F)/w)$ | : 28,00 kN |
|---|------------|

SYSTEM CAPACITY - OK



| SCAFFOLD SPINDLE | |
|-------------------------------------|------------|
| PIPE OUTER DIMENSION "D" | : 38,00 mm |
| PIPE THICKNESS "t" | : 4,00 mm |
| PIE INTERN DIMENSION "d" d = (D-2t) | : 30,00 mm |

| | |
|---|------------------------|
| PI NUMBER "p" | : 3,14 |
| AREA OF PIPE SECTION "F" $F = ((p/4)*(D^2-d^2))$ | : 4,27 cm ² |
| SECOND MOMENT OF INERTIA "I" $I = ((p/64)*(D^4-d^4))$ | : 6,26 cm ⁴ |
| SECOND MOMENT HALF DIAMETER "i" $i = \sqrt{I/F}$ | : 1,21 cm |
| UNIT WEIGHT | : 3,35 kg/mt |

| | |
|--|-------------------------------|
| ST37 STEEL SAFETY FACTOR - RUPTURE | : 3.737,00 kg/cm ² |
| ST37 STEEL SAFETY FACTOR - FLOWING | : 2.400,00 kg/cm ² |
| ST37 STEEL SAFETY FACTOR - SAFETY SIDE | : 1.440,00 kg/cm ² |

| | |
|-------------------------------|-------------------------------|
| SYSTEM LENGHT "s" | : 75,00 cm |
| SPRAIN FACTOR "w" $w = s/i$ | : 1,32 62 |
| ST37 STEEL SAFETY FACTOR "ae" | : 1.440,00 kg/cm ² |

| | |
|---|------------|
| AXIS LOAD "Pmax" $P_{max} = ((G_{em}*F)/w)$ | : 46,59 kN |
|---|------------|

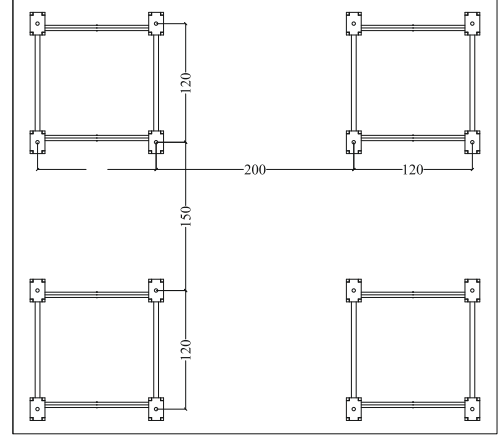
SYSTEM CAPACITY - OK

| SPRAIN FACTOR | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---------------|------|------|------|------|------|------|------|------|------|------|
| 20 | 1,04 | 1,04 | 1,04 | 1,05 | 1,05 | 1,06 | 1,06 | 1,07 | 1,07 | 1,08 |
| 30 | 1,09 | 1,09 | 1,09 | 1,10 | 1,10 | 1,11 | 1,11 | 1,12 | 1,13 | 1,13 |
| 40 | 1,14 | 1,14 | 1,15 | 1,16 | 1,16 | 1,17 | 1,18 | 1,19 | 1,19 | 1,20 |
| 50 | 1,21 | 1,22 | 1,23 | 1,23 | 1,24 | 1,25 | 1,26 | 1,27 | 1,28 | 1,29 |
| 60 | 1,30 | 1,31 | 1,32 | 1,33 | 1,34 | 1,35 | 1,36 | 1,37 | 1,39 | 1,40 |
| 70 | 1,41 | 1,42 | 1,44 | 1,45 | 1,46 | 1,48 | 1,49 | 1,50 | 1,52 | 1,53 |
| 80 | 1,55 | 1,56 | 1,58 | 1,59 | 1,61 | 1,62 | 1,64 | 1,66 | 1,68 | 1,69 |
| 90 | 1,71 | 1,73 | 1,74 | 1,76 | 1,78 | 1,80 | 1,82 | 1,84 | 1,86 | 1,88 |
| 100 | 1,90 | 1,92 | 1,94 | 1,96 | 1,98 | 2,00 | 2,02 | 2,05 | 2,04 | 2,09 |
| 110 | 2,11 | 2,14 | 2,16 | 2,18 | 2,21 | 2,23 | 2,27 | 2,31 | 2,35 | 2,39 |
| 120 | 2,43 | 2,47 | 2,51 | 2,55 | 2,60 | 2,64 | 2,68 | 2,72 | 2,77 | 2,81 |
| 130 | 2,85 | 2,90 | 2,94 | 2,99 | 3,03 | 3,08 | 3,12 | 3,17 | 3,22 | 3,26 |
| 140 | 3,31 | 3,36 | 3,41 | 3,45 | 3,50 | 3,55 | 3,60 | 3,65 | 3,70 | 3,75 |
| 150 | 3,80 | 3,85 | 3,90 | 3,95 | 4,00 | 4,06 | 4,11 | 4,16 | 4,22 | 4,27 |
| 160 | 4,32 | 4,38 | 4,43 | 4,49 | 4,54 | 4,60 | 4,65 | 4,71 | 4,77 | 4,82 |
| 170 | 4,88 | 4,94 | 5,00 | 5,05 | 5,11 | 5,17 | 5,23 | 5,29 | 5,35 | 5,41 |
| 180 | 5,47 | 5,53 | 5,59 | 5,66 | 5,72 | 5,78 | 5,84 | 5,91 | 5,97 | 6,03 |
| 190 | 6,10 | 6,16 | 6,23 | 6,29 | 6,36 | 6,42 | 6,49 | 6,55 | 6,62 | 6,69 |
| 200 | 6,75 | 6,82 | 6,89 | 6,96 | 7,03 | 7,10 | 7,17 | 7,24 | 7,31 | 7,38 |

Bu hesaplama sadece iskele ayağının taşıma kapasitesini gösterir. Kullanılacak ana taşıyıcı (H20 - 10x10 Ahşap veya Özel Ölçü Ahşap) tipine göre , projenize uygun yerleşim planı DIN 4421 'e göre ÖZLER tarafından yeniden tasarlanacaktır.

This calculation shows just scaffolding leg loading capacity. According to type of your main beam (H20 - 10*10 Wood or Special type of Wood) suitable design will be given by ÖZLER according DIN 4421 standard.

Maximum Slab Thickness : 30 cm
 Maximum Spindle Working Height : 75 cm (TS EN 12812 / 7.3.2)
 Scaffold Tube Specification : Ø48 x 3 mm
 Spindle Tube Specification : Ø38 x 4 mm



| PART | GIRDER DISTANCE W2 cm | SLAB D cm | SCAFFOLD WIDTH W1 cm | MX. MAIN BEAM DISTANCE L2 cm |
|--------------|-----------------------|--|----------------------|------------------------------|
| DIMENSION cm | 150,00 | 30,00 | 120,00 | 200,00 |
| | | SLAB CONCRETE LOAD kN/m ² | | 7,80 |
| | | LIVE LOAD kN/m ² | | 1,56 |
| | | DEAD LOAD kN/m ² | | 0,40 |
| | | SLAB TOTAL LOAD kN/m ² | | 9,76 |
| | | ARE OF SCAAFOLD PIPE m ² ((W2/2)+(W3/2))xL2 | | 2,70 |
| | | LOAD OF SCAAFOLD LEG kN | | 26,35 |

| SCAFFOLD PIPE | |
|-------------------------------------|------------|
| PIPE OUTHR DIMENSION "D" | : 48,00 mm |
| PIPE THICKNESS "t" | : 3,00 mm |
| PIE INTERN DIMENSION "d" d = (D-2t) | : 42,00 mm |

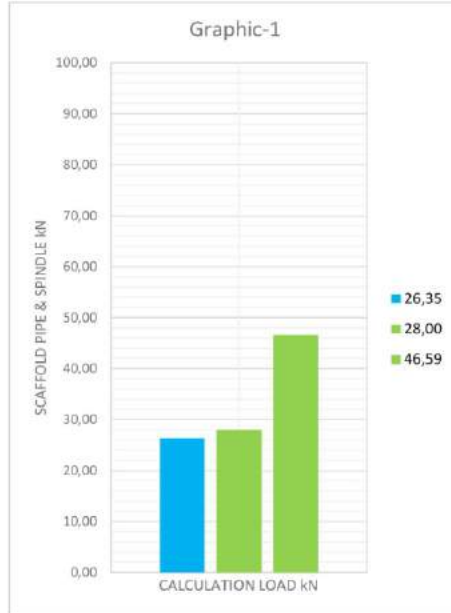
| | |
|---|-------------------------|
| Pi NUMBER "p" | : 3,14 |
| AREA OF PIPE SECTION "F" $F = ((p/4)*(D^2-d^2))$ | : 4,24 cm ² |
| SECOND MOMENT OF INERTIA "I" $I = ((p/64)*(D^4-d^4))$ | : 10,78 cm ⁴ |
| SECOND MOMENT HALF DIAMETER "i" $i = \sqrt{I/F}$ | : 1,59 cm |
| UNIT WEIGHT | : 3,33 kg/mt |

| | |
|--|-------------------------------|
| ST37 STEEL SAFETY FACTOR - RUPTURE | : 3.737,00 kg/cm ² |
| ST37 STEEL SAFETY FACTOR - FLOWING | : 2.400,00 kg/cm ² |
| ST37 STEEL SAFETY FACTOR - SAFETY SIDE | : 1.440,00 kg/cm ² |

| | |
|-------------------------------|-------------------------------|
| SYSTEM LENGHT "s" | : 180,00 cm |
| SPRAIN FACTOR "w" $w = s/i$ | : 2,18 113 |
| ST37 STEEL SAFETY FACTOR "σe" | : 1.440,00 kg/cm ² |

| | |
|---|------------|
| AXIS LOAD "Pmax" $P_{max} = ((G_{em}*F)/w)$ | : 28,00 kN |
|---|------------|

SYSTEM CAPACITY - OK



| SCAFFOLD SPINDLE | |
|------------------|----------|
| | 38,00 mm |
| | 4,00 mm |
| | 30,00 mm |

| | |
|--|----------------------|
| | 3,14 |
| | 4,27 cm ² |
| | 6,26 cm ⁴ |
| | 1,21 cm |
| | 3,35 kg/mt |

| | |
|--|-----------------------------|
| | 3.737,00 kg/cm ² |
| | 2.400,00 kg/cm ² |
| | 1.440,00 kg/cm ² |

| | |
|--|-----------------------------|
| | 75,00 cm |
| | 1,32 62 |
| | 1.440,00 kg/cm ² |

| | |
|--|----------|
| | 46,59 kN |
|--|----------|

SYSTEM CAPACITY - OK

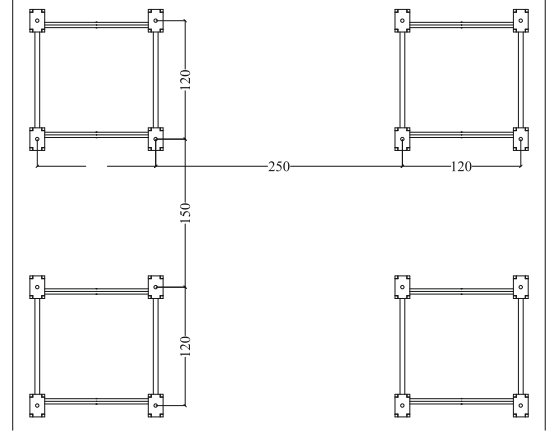
| SPRAIN FACTOR | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---------------|------|------|------|------|------|------|------|------|------|------|
| 20 | 1,04 | 1,04 | 1,04 | 1,05 | 1,05 | 1,06 | 1,06 | 1,07 | 1,07 | 1,08 |
| 30 | 1,09 | 1,09 | 1,09 | 1,10 | 1,10 | 1,11 | 1,11 | 1,12 | 1,13 | 1,13 |
| 40 | 1,14 | 1,14 | 1,15 | 1,16 | 1,16 | 1,17 | 1,18 | 1,19 | 1,19 | 1,20 |
| 50 | 1,21 | 1,22 | 1,23 | 1,23 | 1,24 | 1,25 | 1,26 | 1,27 | 1,28 | 1,29 |
| 60 | 1,30 | 1,31 | 1,32 | 1,33 | 1,34 | 1,35 | 1,36 | 1,37 | 1,39 | 1,40 |
| 70 | 1,41 | 1,42 | 1,44 | 1,45 | 1,46 | 1,48 | 1,49 | 1,50 | 1,52 | 1,53 |
| 80 | 1,55 | 1,56 | 1,58 | 1,59 | 1,61 | 1,62 | 1,64 | 1,66 | 1,68 | 1,69 |
| 90 | 1,71 | 1,73 | 1,74 | 1,76 | 1,78 | 1,80 | 1,82 | 1,84 | 1,86 | 1,88 |
| 100 | 1,90 | 1,92 | 1,94 | 1,96 | 1,98 | 2,00 | 2,02 | 2,05 | 2,04 | 2,09 |
| 110 | 2,11 | 2,14 | 2,16 | 2,18 | 2,21 | 2,23 | 2,27 | 2,31 | 2,35 | 2,39 |
| 120 | 2,43 | 2,47 | 2,51 | 2,55 | 2,60 | 2,64 | 2,68 | 2,72 | 2,77 | 2,81 |
| 130 | 2,85 | 2,90 | 2,94 | 2,99 | 3,03 | 3,08 | 3,12 | 3,17 | 3,22 | 3,26 |
| 140 | 3,31 | 3,36 | 3,41 | 3,45 | 3,50 | 3,55 | 3,60 | 3,65 | 3,70 | 3,75 |
| 150 | 3,80 | 3,85 | 3,90 | 3,95 | 4,00 | 4,06 | 4,11 | 4,16 | 4,22 | 4,27 |
| 160 | 4,32 | 4,38 | 4,43 | 4,49 | 4,54 | 4,60 | 4,65 | 4,71 | 4,77 | 4,82 |
| 170 | 4,88 | 4,94 | 5,00 | 5,05 | 5,11 | 5,17 | 5,23 | 5,29 | 5,35 | 5,41 |
| 180 | 5,47 | 5,53 | 5,59 | 5,66 | 5,72 | 5,78 | 5,84 | 5,91 | 5,97 | 6,03 |
| 190 | 6,10 | 6,16 | 6,23 | 6,29 | 6,36 | 6,42 | 6,49 | 6,55 | 6,62 | 6,69 |
| 200 | 6,75 | 6,82 | 6,89 | 6,96 | 7,03 | 7,10 | 7,17 | 7,24 | 7,31 | 7,38 |

SLABFORM-LT SHORING SCAFFOLDING

Bu hesaplama sadece iskele ayağının taşıma kapasitesini gösterir. Kullanılacak ana taşıyıcı (H20 - 10x10 Ahşap veya Özel Ölçü Ahşap) tipine göre , projenize uygun yerleşim planı DIN 4421 'e göre ÖZLER tarafından yeniden tasarlanacaktır.

This calculation shows just scaffolding leg loading capacity. According to type of your main beam (H20 - 10*10 Wood or Special type of Wood) suitable design will be given by ÖZLER according to DIN 4421 standard.

Maximum Slab Thickness : 20 cm
Maximum Spindle Working Height : 75 cm (TS EN 12812 / 7.3.2)
Scaffold Tube Specification : Ø48 x 3 mm
Spindle Tube Specification : Ø38 x 4 mm



| PART | GIRDER DISTANCE W2 cm | SLAB D cm | SCAFFOLD WIDTH W1 cm | MX. MAIN BEAM DISTANCE L2 cm |
|--------------|-----------------------|-----------|--|------------------------------|
| DIMENSION cm | 150,00 | 20,00 | 120,00 | 250,00 |
| | | | SLAB CONCRETE LOAD kN/m ² | 5,20 |
| | | | LIVE LOAD kN/m ² | 1,50 |
| | | | DEAD LOAD kN/m ² | 0,40 |
| | | | SLAB TOTAL LOAD kN/m ² | 7,10 |
| | | | ARE OF SCAFFOLD PIPE m ² ((W2/2)+(W3/2))xL2 | 3,38 |
| | | | LOAD OF SCAFFOLD LEG kN | 23,96 |

| SCAFFOLD PIPE | |
|-------------------------------------|------------|
| PIPE OUTER DIMENSION "D" | : 48,00 mm |
| PIPE THICKNESS "t" | : 3,00 mm |
| PIE INTERN DIMENSION "d" d = (D-2t) | : 42,00 mm |

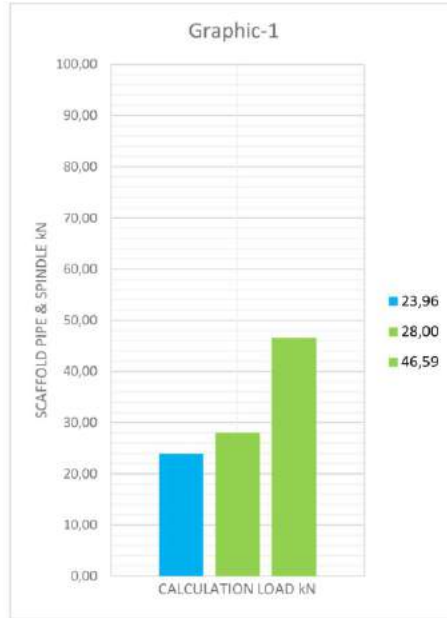
| | |
|---|-------------------------|
| PI NUMBER "p" | : 3,14 |
| AREA OF PIPE SECTION "F" F = ((p/4)*(D ² -d ²)) | : 4,24 cm ² |
| SECOND MOMENT OF INERTIA "I" I = ((p/64)*(D ⁴ -d ⁴)) | : 10,78 cm ⁴ |
| SECOND MOMENT HALF DIAMETER "i" i = √(I/F) | : 1,59 cm |
| UNIT WEIGHT | : 3,33 kg/mt |

| | |
|--|-------------------------------|
| ST37 STEEL SAFETY FACTOR - RUPTURE | : 3.737,00 kg/cm ² |
| ST37 STEEL SAFETY FACTOR - FLOWING | : 2.400,00 kg/cm ² |
| ST37 STEEL SAFETY FACTOR - SAFETY SIDE | : 1.440,00 kg/cm ² |

| | |
|-------------------------------|-------------------------------|
| SYSTEM LENGHT "s" | : 180,00 cm |
| SPRAIN FACTOR "w" w = s/i | : 2,18 113 |
| ST37 STEEL SAFETY FACTOR "σe" | : 1.440,00 kg/cm ² |

| | |
|-------------------------------------|------------|
| AXIS LOAD "Pmax" Pmax = ((Gem*F)/w) | : 28,00 kN |
|-------------------------------------|------------|

SYSTEM CAPACITY - OK



| SCAFFOLD SPINDLE | |
|------------------|----------|
| | 38,00 mm |
| | 4,00 mm |
| | 30,00 mm |

| | |
|--|----------------------|
| | 3,14 |
| | 4,27 cm ² |
| | 6,26 cm ⁴ |
| | 1,21 cm |
| | 3,35 kg/mt |

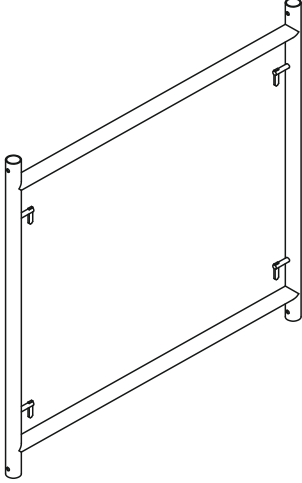
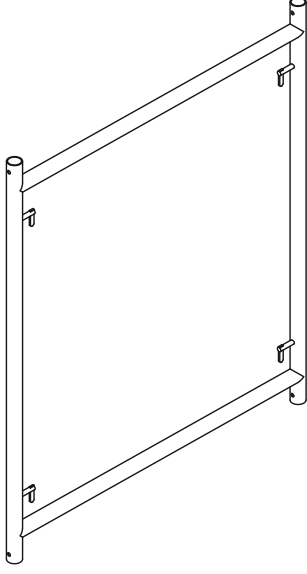
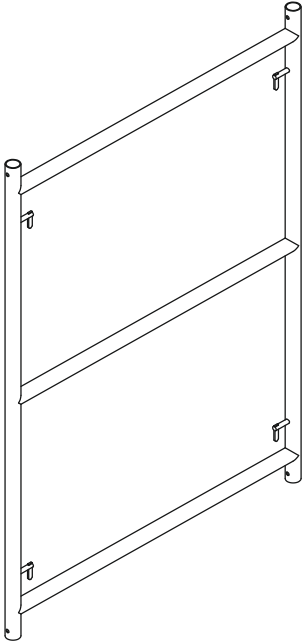
| | |
|--|-----------------------------|
| | 3.737,00 kg/cm ² |
| | 2.400,00 kg/cm ² |
| | 1.440,00 kg/cm ² |

| | |
|--|-----------------------------|
| | 75,00 cm |
| | 1,32 62 |
| | 1.440,00 kg/cm ² |

| | |
|--|----------|
| | 46,59 kN |
|--|----------|

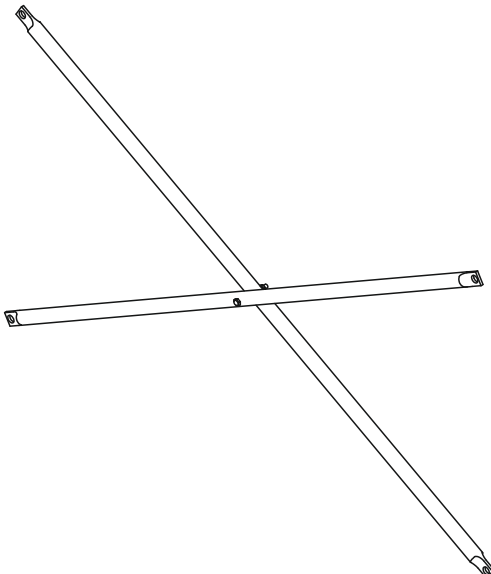
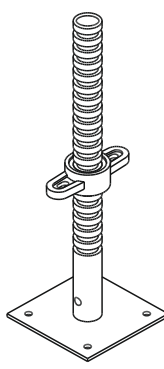
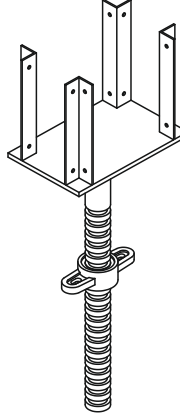
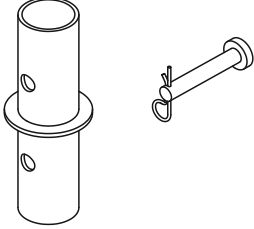
SYSTEM CAPACITY - OK

| SPRAIN FACTOR | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---------------|------|------|------|------|------|------|------|------|------|------|
| 20 | 1,04 | 1,04 | 1,04 | 1,05 | 1,05 | 1,06 | 1,06 | 1,07 | 1,07 | 1,08 |
| 30 | 1,09 | 1,09 | 1,09 | 1,10 | 1,10 | 1,11 | 1,11 | 1,12 | 1,13 | 1,13 |
| 40 | 1,14 | 1,14 | 1,15 | 1,16 | 1,16 | 1,17 | 1,18 | 1,19 | 1,19 | 1,20 |
| 50 | 1,21 | 1,22 | 1,23 | 1,23 | 1,24 | 1,25 | 1,26 | 1,27 | 1,28 | 1,29 |
| 60 | 1,30 | 1,31 | 1,32 | 1,33 | 1,34 | 1,35 | 1,36 | 1,37 | 1,39 | 1,40 |
| 70 | 1,41 | 1,42 | 1,44 | 1,45 | 1,46 | 1,48 | 1,49 | 1,50 | 1,52 | 1,53 |
| 80 | 1,55 | 1,56 | 1,58 | 1,59 | 1,61 | 1,62 | 1,64 | 1,66 | 1,68 | 1,69 |
| 90 | 1,71 | 1,73 | 1,74 | 1,76 | 1,78 | 1,80 | 1,82 | 1,84 | 1,86 | 1,88 |
| 100 | 1,90 | 1,92 | 1,94 | 1,96 | 1,98 | 2,00 | 2,02 | 2,05 | 2,04 | 2,09 |
| 110 | 2,11 | 2,14 | 2,16 | 2,18 | 2,21 | 2,23 | 2,27 | 2,31 | 2,35 | 2,39 |
| 120 | 2,43 | 2,47 | 2,51 | 2,55 | 2,60 | 2,64 | 2,68 | 2,72 | 2,77 | 2,81 |
| 130 | 2,85 | 2,90 | 2,94 | 2,99 | 3,03 | 3,08 | 3,12 | 3,17 | 3,22 | 3,26 |
| 140 | 3,31 | 3,36 | 3,41 | 3,45 | 3,50 | 3,55 | 3,60 | 3,65 | 3,70 | 3,75 |
| 150 | 3,80 | 3,85 | 3,90 | 3,95 | 4,00 | 4,06 | 4,11 | 4,16 | 4,22 | 4,27 |
| 160 | 4,32 | 4,38 | 4,43 | 4,49 | 4,54 | 4,60 | 4,65 | 4,71 | 4,77 | 4,82 |
| 170 | 4,88 | 4,94 | 5,00 | 5,05 | 5,11 | 5,17 | 5,23 | 5,29 | 5,35 | 5,41 |
| 180 | 5,47 | 5,53 | 5,59 | 5,66 | 5,72 | 5,78 | 5,84 | 5,91 | 5,97 | 6,03 |
| 190 | 6,10 | 6,16 | 6,23 | 6,29 | 6,36 | 6,42 | 6,49 | 6,55 | 6,62 | 6,69 |
| 200 | 6,75 | 6,82 | 6,89 | 6,96 | 7,03 | 7,10 | 7,17 | 7,24 | 7,31 | 7,38 |

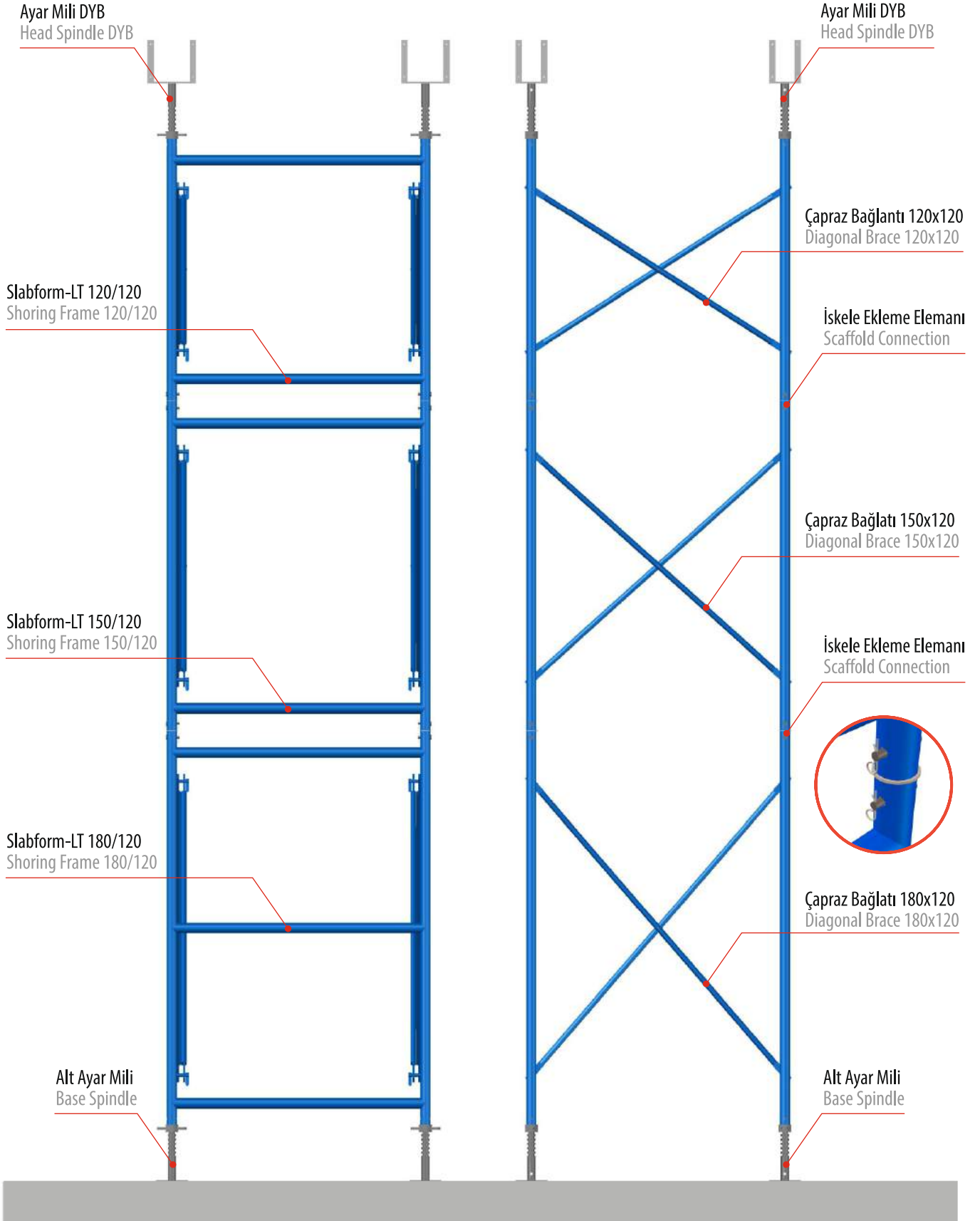
| | | AĞIRLIK KG WEIGHT KG | UZUNLUĞU LENGTH | ÜRÜN KODU CODE |
|---|---|-------------------------|--------------------|-------------------|
| Slabform-LT 120/120 Shoring Frame 120/120 |  | Ø48 * 3,0 14,30 | 120/120 | 240101 |
| Slabform-LT 120/150 Shoring Frame 120/150 |  | Ø48 * 3,0 16,30 | 120/150 | 240102 |
| Slabform-LT 120/180 Shoring Frame 120/180 |  | Ø48 * 3,0 20,80 | 120/180 | 240103 |

SLABFORM-LT

SHORING SCAFFOLDING

| AĞIRLIK KG WEIGHT KG | UZUNLUĞU LENGTH | ÜRÜN KODU CODE | | | |
|-------------------------|--------------------------------------|----------------------------|---|--|---|
| 4,10 4,90 5,20 | 120/120 150/120 180/120 | 240201 240202 240203 | L=1410 mm L=1588 mm L= 1799 mm |  | Çapraz Bağlantı Diagonal Brace |
| 3,00 4,00 5,00 | Ø38 * 500 Ø38 * 700 Ø38 * 1000 | 300101 300102 300103 | Lmax = 375 mm Lmax = 525 mm Lmax = 750 mm |  | Alt Ayar Mili Base Spindle |
| 5,50 6,50 8,50 | Ø38 * 500 Ø38 * 700 Ø38 * 1000 | 300301 300302 300303 | |  | Ayar Mili DYB Head Spindle DYB |
| 0,50 0,10 | Ø48 16*65 | 130401 300601 | |  | İskele Ekleme Elemanı Ø48 Scaffold Connection Ø48 Pim ve Kopilya Pin and Split Pin |

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