

Perde Kalıpları

- Tırmanır Perde Kalıpları
- Dairesel Perde Kalıpları
- Düz Perde Kalıpları

Wall Formwork

- Climbing Formwork
- Circular Formwork
- Wall Formwork

Kolon Kalıpları

- Tırmanır Kolon Kalıpları
- Dairesel Kolon Kalıpları
- Dikdörtgen Kolon Kalıpları
- Ayarlanabilir Kolon Kalıpları

Column Formworks

- Climbing Column Form.
- Circular Column
- Rectangular Column
- Adjustable Column

MODSET

MODSET MODÜLER KALIP SİSTEMİ

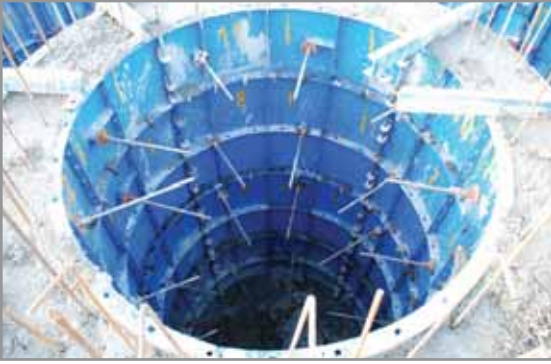
MODSET MODULAR FORMWORK SYSTEM

MODSET MODÜLER KALIP SİSTEMİ

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MODSET Modüler Kalıp Sistemi, plywood veya çelik yüzeyli panolardan oluşur. Villa, konut, altyapı tipi yapılarda perde veya kolon kalıbı olarak kullanılır. Vinç kullanılmayan projelerde, elle taşınabilir panolardan oluşan bir sistem olduğu için ideal çözümdür. MODSET-S Özel Kalıp Sistemi çözümleri ile de her projede ve projenin her noktasında kullanılabilir.



Çelik yüzeyli MODSET panolarının dış karkası 5mm, yüzey sacı 3mm A1 kalite Ereğli çelik sac kullanılır. Dış karkas yüksekliği 60 mm'dir.

Plywood yüzeyli MODSET panoların yüzeyi 200 gr/m² fenolik filmlili ve 11,5 kg/m² ağırlığında yüksek kalitede 18 mm kalınlığında huş ağacı plywooddan oluşmaktadır. Destek dış karkası 5mm, iç karkası 4mm kalınlığındadır. Dış karkas yüksekliği 70 mm'dir.

SİSTEM ÖZELLİKLERİ

- Panolar 40 kN/m² beton basınç dayanımına sahiptir.
- MODSET panoları insan gücüyle taşınabilir. Aynı zamanda bloklar halinde vinçle de taşınabilir.
- MODSET Modüler Kalıp Sistemi her projede ve projenin her noktasında kullanılabilir.
- Tek bir bağlantı elemanı ile panolar birbirlerine tek bir çekiç darbesiyle kolayca kilitlebilir.
- MODSET-S Özel Kalıp Sistemi ile merdiven kalıbı, markiz kalıbı gibi farklı her yapıya uygun kalıp çözümü üretilir.
- Pano birleşimlerinde seri delik sistemi ile her 20 cm'de bir bağlantı elemanı kullanılarak rijit bir bağlantı oluşturulur.

MODSET MODULAR FORMWORK SYSTEM

MODSET Modular Formwork System is composed of plywood or steel surfaced panels. It is utilized as wall or column formwork in constructions like villa, residence, and infrastructures. It can be utilized together with MODSET-S Special Formwork System in every projects and every point of the project.

In the MODSET panels with steel surface, high quality steel

plate is used; which external frame is 5 mm, surface plate is 3 mm. External frame height is 60 mm.

MODSET panels with plywood surface are composed of high quality, 11,5 kg/m² weight, 18 mm thickness birch plywood which surface is with 200 gr/m² phenolic film. External support frame has 5 mm thickness and internal frame has 4 mm. External frame height is 70 mm.

FEATURES OF THE SYSTEM

- Panels have the concrete pressure resistance of 40 kN/m²
- MODSET can be carried by hand. At the same time, it can be transported in blocks with crane.
- MODSET Modular Formwork System can be utilized in every project and every point of the project.
- With a single connection component, panels are locked each other with a single hammer strike.
- With MODSET-S Special Formwork System, formwork solutions which are suitable for different structures like staircase formwork, marquee formwork can be developed.
- With serial hole system in panel connections, a rigid connection can be established by using one connection component in every each 20 cm.
- While in circular columns, push-pull props are used as 3 quantity with an angle of 120 degree, in columns with square

- Dairesel kolonlarda payandalar 120 derece açı ile 3 adet kullanılırken, kare veya dikdörtgen kesitli kolonlarda ardışık iki kenarda ikişer adet olmak üzere toplam 4 adet yerleştirilir.
- MODSET Çelik Yüzeyle Pano serisi 50x100 standardı ve tamamlayıcı diğer panoları üretilir. Plywood Yüzeyle Pano serisi ise 150x90 standardı ve tamamlayıcı diğer panolardan oluşur.

Permissible Fresh
Concrete Pressure
40 kN/m²

MODSET Perde Kalıbı Yerleşimi;
MODSET Wall Formwork Design

Kalıp Yüksekliği <i>Height</i>	Payanda Yerleşim Aralığı <i>Push-Pull Prop Space</i>	Çelik Kuşak Yerleşimi <i>Waler Settlement</i>
3 m	3,00 m	3 Sıra
4 m	2,50 m	4 Sıra
5 m	1,70 m	5 Sıra
6 m	1,50 m	7 Sıra

or rectangular profile, a total 4 quantity is located as to be two quantity at a two consecutive sides.

- In the MODSET Panel with steel surface series, other panels which are complementary and have 50X100 standards are produced. Panel with plywood surface series is composed with other panels which are complementary have 150x90 standards.

Pim - Kama / Pin-Wedge



Pano Kilidi / Panel Clamp



Pim - Kama ve pano kilidi bağlantı elemanları ile panolar birleştirilir.

Pin-wedge and panel clamps are used to connect panels.

PLYWOOD MUKAVEMET DEĞERLERİ / STRENGTH VALUES OF PLYWOOD

Plywood Katmanları Desteklere Dik / Layers are Vertical to Girders

Destek arası mm <i>Gaps</i>	200		250		300		350	
	Yük KN/m ² <i>Load</i>	Sehim mm <i>Deflection</i>	Yük KN/m ² <i>Load</i>	Sehim mm <i>Deflection</i>	Yük KN/m ² <i>Load</i>	Sehim mm <i>Deflection</i>	Yük KN/m ² <i>Load</i>	Sehim mm <i>Deflection</i>
12	49	0.5	39	0.8	26	1.0	18	1.2
15	60	0.4	48	0.7	40	1.0	29	1.2
18	71	0.4	57	0.6	48	0.8	41	1.1
21	83	0.4	66	0.5	55	0.7	47	1.0

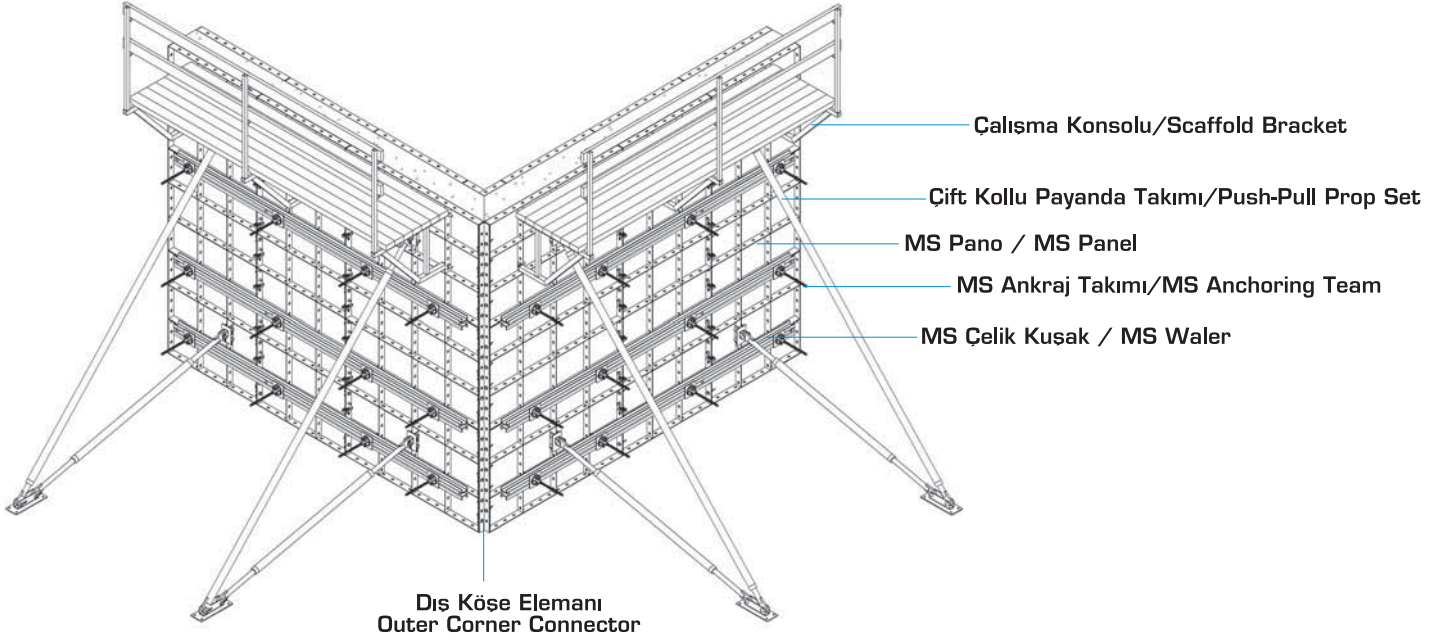
Plywood Katmanları Desteklere Paralel / Layers are Parallel to Girders

Destek arası mm <i>Gaps</i>	200		250		300		350	
	Yük KN/m ² <i>Load</i>	Sehim mm <i>Deflection</i>	Yük KN/m ² <i>Load</i>	Sehim mm <i>Deflection</i>	Yük KN/m ² <i>Load</i>	Sehim mm <i>Deflection</i>	Yük KN/m ² <i>Load</i>	Sehim mm <i>Deflection</i>
12	45	0.7	27	0.8	17	1.0	12	1.2
15	60	0.5	46	0.8	31	1.0	22	1.2
18	71	0.5	57	0.7	46	1.0	34	1.2
21	83	0.4	66	0.6	55	0.8	46	1.1

Sehim limiti açıklık 300 mm / Deflection limit 300 mm

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İç köşelerde bağlantı iç köşe panosu ile dış köşelerde ise dış köşe birleştirme elemanı ile yapılır.

For inner corners use inner corner panel, for outer corner connections use outer corner connector.



- ◆ Panolar elle taşınabilir haldedir. (Maksimum ağırlık 42,5 kg'dır.) Şantiyeye hazır halde sevk edilir.
- ◆ Panels can be carried by hand (max weight is 42,5 kg) The panels are ready to assemble.



- ◆ Panolar, pano kilidi ve pim-kama bağlantı aksesuarları ile birbirine tek bir çekiş darbesi ile kolayca kilitlenir.
- ◆ Panels are connected each other easily with panel clamp and pin-wedge components.

- ◆ Karşılıklı panolar, ankraj takımı ve konik ara malzemeler ile bağlanır. Beton basıncı ankraj bağlantıları ile karşılanır.
- ◆ Parallel panels are connected each other with anchoring teams and conic components. Concrete pressure resists by the anchoring set.

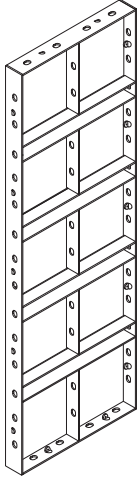
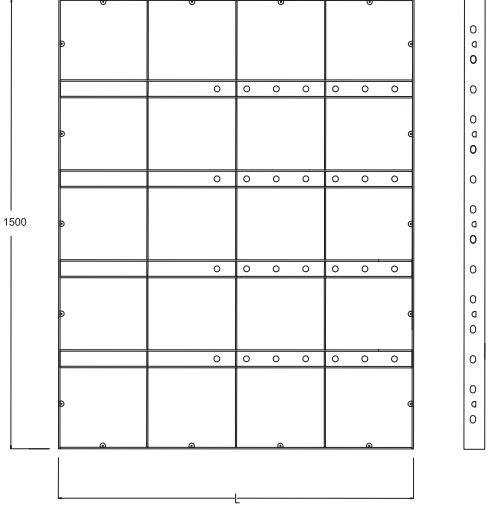
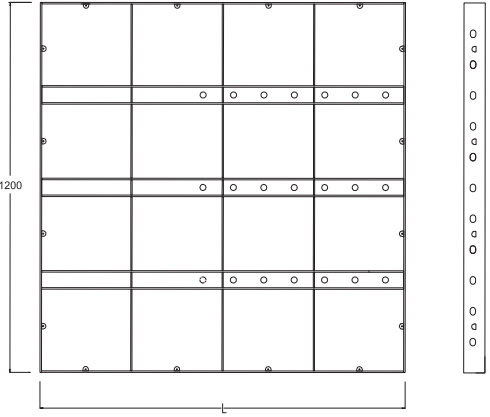
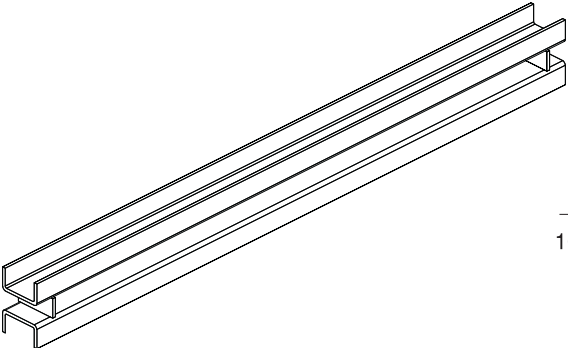
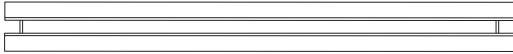


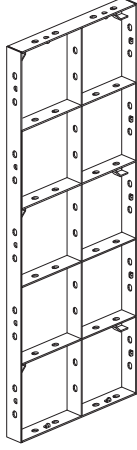
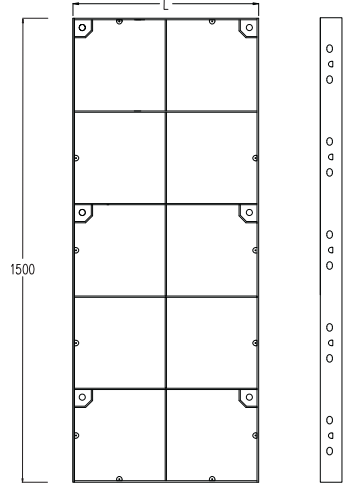
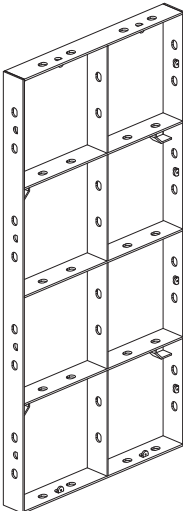
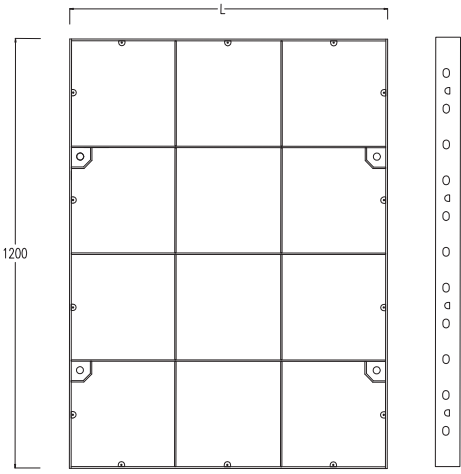
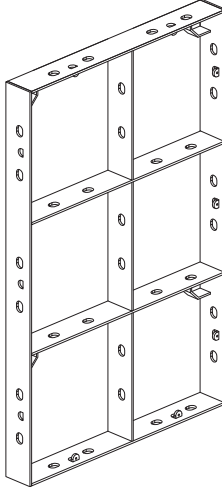
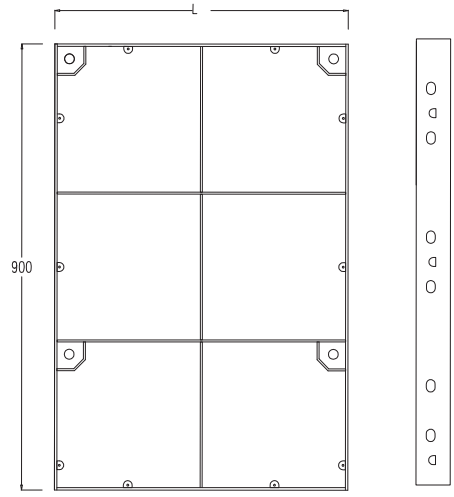
- ◆ Kalıp yüksekliğine göre kuşak yerleşimi yapılır. Pano birleşimlerinde 20 cm' e kadar boşluklar ara dolgu, çelik kuşak ve bağlantı elemanları ile geçilir
- ◆ Walers are settled due to the height of the formwork. The gaps max 20 cm in the connections of the panels are solved with filler, steel waler and connection components.

- ◆ Montaj aşaması düşey ve yatay yönde aynı şekilde panoların kilitlenmesi ile devam eder. Panolar her iki yönde seri delik sistemi ile hem yatay, hem de düşey yönde birleştirilebilir.
- ◆ Assembling process continues in the same way by locking the panels in vertical and horizontal line. Panels can be connected in vertical or horizontal ways.

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MODSET MODULAR FORMWORK SYSTEM

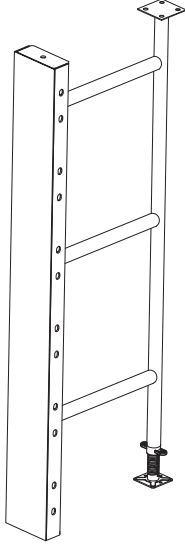
		Ağırlık kg Weight kg	Stok No Item No											
MS Ayarlanabilir Pano 150 MS Multi Panel 150		<table border="1"> <thead> <tr> <th>H</th> <th>L</th> </tr> </thead> <tbody> <tr> <td>150</td> <td>120</td> </tr> <tr> <td>150</td> <td>60</td> </tr> </tbody> </table>	H	L	150	120	150	60	<table border="1"> <tbody> <tr> <td>68.8</td> <td>204000</td> </tr> <tr> <td>34.4</td> <td>204200</td> </tr> </tbody> </table>	68.8	204000	34.4	204200	
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55.3	204400													
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MS Ayarlanabilir Pano 120 MS Multi Panel 120	<table border="1"> <thead> <tr> <th>H</th> <th>L</th> </tr> </thead> <tbody> <tr> <td>120</td> <td>120</td> </tr> <tr> <td>120</td> <td>60</td> </tr> </tbody> </table>	H	L	120	120	120	60	<table border="1"> <tbody> <tr> <td>14.7</td> <td>214000</td> </tr> </tbody> </table>	14.7	214000				
H	L													
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14.7	214000													
<table border="1"> <thead> <tr> <th>L</th> </tr> </thead> <tbody> <tr> <td>100</td> </tr> </tbody> </table>	L	100	<p>Uzunluk projeye göre belirlenir. Length is decided due to the project.</p>											
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		Ağırlık kg Weight kg	Stok No Item No														
MS Pano 150 MS Panel 150		L 90 60 45 30 15	42.5 30.6 25.7 17.6 12.8	200100 200200 200300 200400 200500													
						<p>Tüm Modset panoları 40kN/m² taze beton basıncına göre tasarlanmıştır. <i>All Modset panels are designed for a 40kN/m² fresh concrete pressure.</i></p>		<p>DIN 18218'e göre dizayn edilmiştir. <i>Designed according to DIN 18218.</i></p>									
						MS Pano 120 MS Panel 120		L 90 60 45 30 15	34.6 22.8 20.8 14.0 10.3	200600 200700 200800 200900 201000							
												MS Pano 90 MS Panel 90		L 90 60 45 30 15	28.1 18.7 16.3 12.0 8.5	201500 201100 201200 201300 201400	

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MS Tırmanır Pano MS Climbing Panel



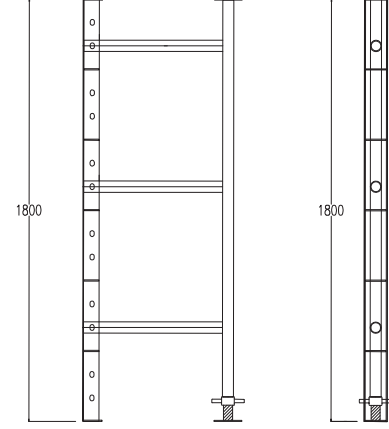
10/180
20/180

Ağırlık kg
Weight kg

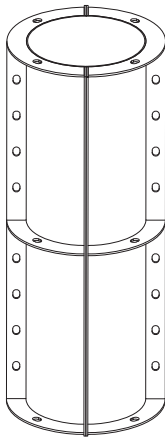
27.0
36.0

Stok No
Item No

215500
215600



MS Dairesel Kolon Modülü MS Circular Column Team

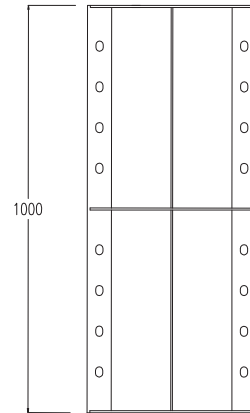
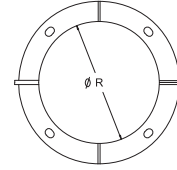


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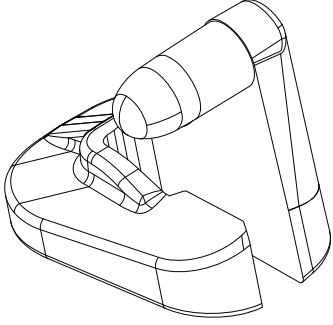
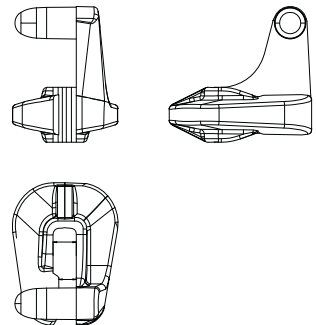
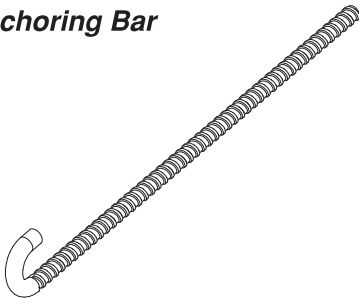

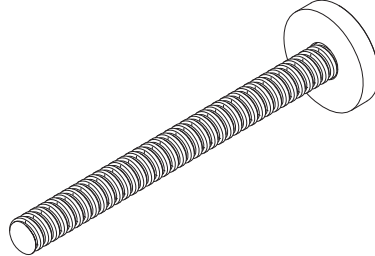
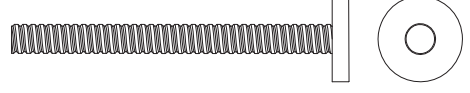
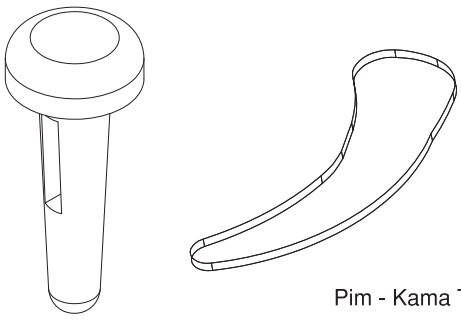
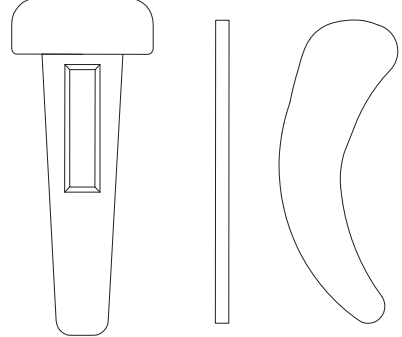
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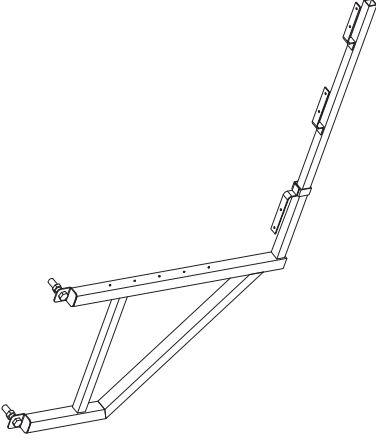
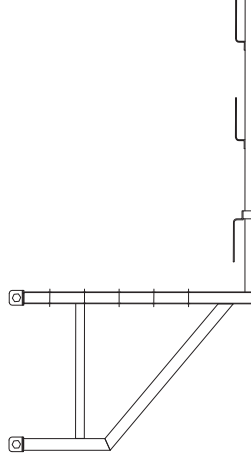
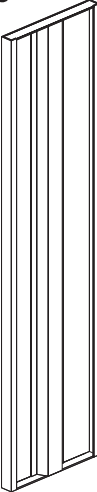
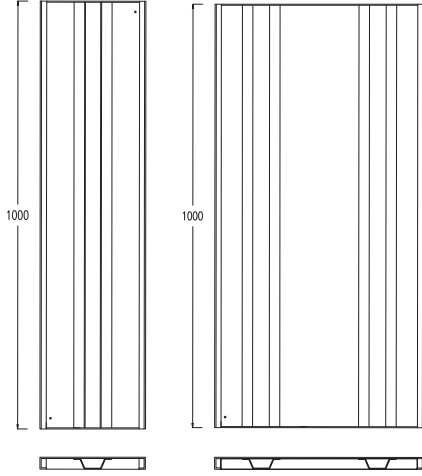
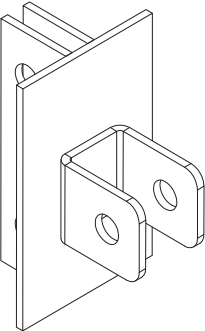
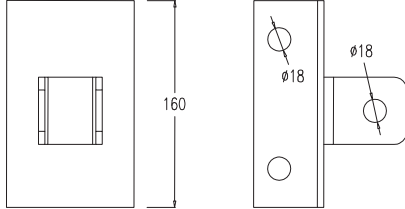


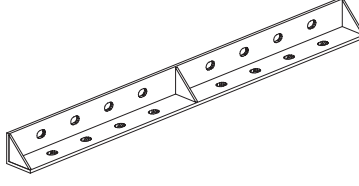
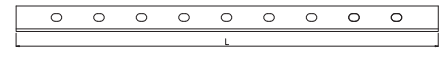
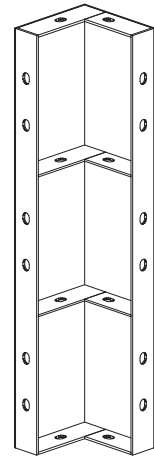
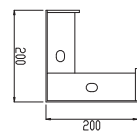
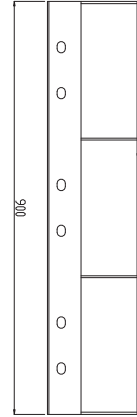
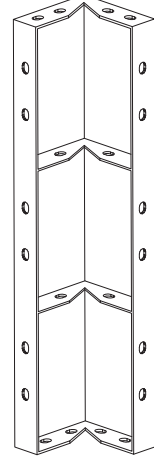
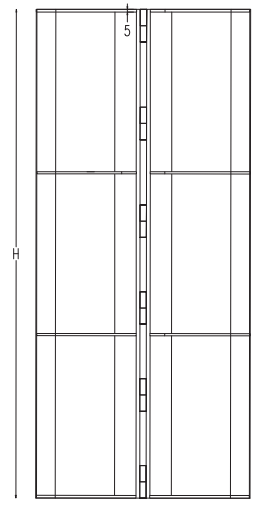
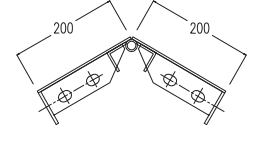
Bir modül karşılıklı iki parçadan oluşur.
One module has two semi circular panels.

	Ağırlık kg Weight kg	Stok No Item No	
<p>Pano Kilidi Panel Clamp</p>  <p>Üç noktadan kilitlemeyi sağlar. Provides three point clamping force.</p>	0.6	250400	 <p>Galvanizli / Galvanized</p>
<p>MS Kancalı Ankraj Mili MS Curved Anchoring Bar</p> 	1.5	214200	
<p>MS Pullu Ankraj Mili MS Lamellar Anchoring Bar</p> 	1.6 kg/m	214300	
<p>MS Pim- Kama Takımı MS Pin - Wedge Set</p>  <p>Pim Kama</p>	0.1 0.05	701500 701600	
	0.15	701700	

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	Ağırlık kg Weight kg	Stok No Item No	
MS Standart Çalışma Konsolu MS Standard Scaffold Bracket  <p>İdeal kullanım açıklığı 1,25 m'dir. Allowable spacing is 1,25 m</p>	8.2	216400	 <p>DIN 4420' e göre dizayn edilmiştir. Designed according to DIN 4420.</p>
MS Döşeme Panosu 100 MS Slab Panel 100  <p>A 50 25</p>	14.0 8.8	210700 210800	
MS Standart Payanda Başlığı MS Standard Push-Pull Prop Head 	1.7	216300	

		Ağırlık kg Weight kg	Stok No Item No	
MS Dış Köşe Elemanı MS Outer Corner Connector		$\frac{L}{100}$ 7.3	202300	
MS İç Köşe Pano 20/20 MS Inner Corner Panel 20/20		$\frac{H}{90}$ 16.4 $\frac{H}{120}$ 20.9 $\frac{H}{150}$ 25.3	202500 202600 202700	 
90° lik iç köşeler içindir. For 90° internal corners.				
MS Mafsallı İç Köşe Pano 20/20 MS Swivel Inner Corner Panel 20/20		$\frac{H}{90}$ 22.7 $\frac{H}{120}$ 29.9 $\frac{H}{150}$ 36.3	203200 203100 203000	 
56° ve üzeri açılardaki iç köşeler içindir. For all oblique layouts from 56° upwards.				

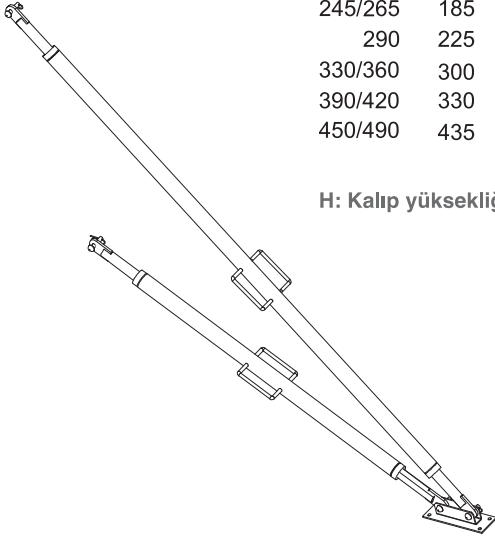
MODSET MODÜLER KALIP SİSTEMİ

MODSET MODULAR FORMWORK SYSTEM

Çift Kollu Payanda Takımı Push-Pull Prop Set

H	L Min	L Max
245/265	185	241
290	225	281
330/360	300	356
390/420	330	386
450/490	435	531

H: Kalıp yüksekliği

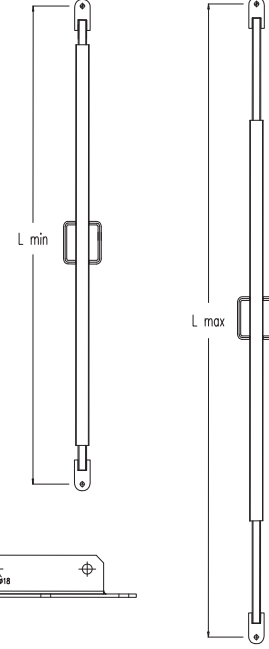


Payanda Başlığı ile sisteme monte edilir. Payanda tabanı, 2 pim ve 2 kopilya sisteme dahildir.
Used with Push- Pull Prop Head. Includes base plate, 2 pins and 2 detent pins.

Ağırlık kg
Weight kg

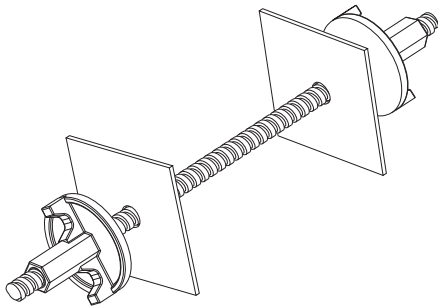
Stok No
Item No

24.2 090100
26.8 090200
31.6 090300
32.9 090400
55.0 090500

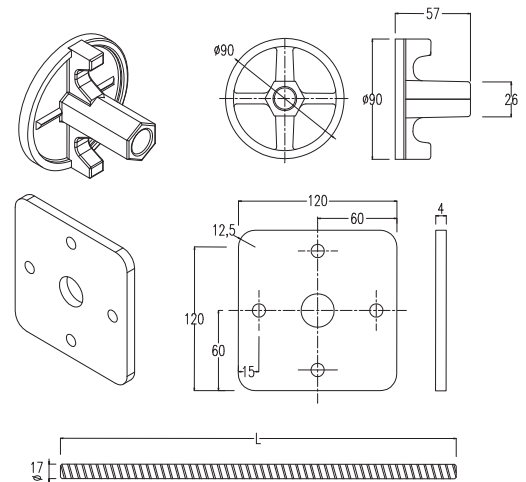


MS Ankraj Takımı MS Anchoring Team

Ankraj Mili	L
100	1.5
125	1.9
150	2.3
175	2.6
200	3.0
225	3.4
250	3.8



Ankraj Somunu 0.5 580100
MS Ankraj Aynası 0.4 217000



Dayanımı 90 kN'dur, farklı boylar üretilir.
Permissible load is 90 kN, special lengths are available.

Galvanizli / Galvanized
DIN 18216' a göre dizayn edilmiştir.
Designed according to DIN 18216.