

HEAVY DUTY MODULAR **SUPPORT SYSTEMS**

PROFESYONEL AĞIR SERİ **ASKI SİSTEMLERİ**

+110.000 Tons
Annual Capacity

84
Countries Where We Export

+7.500
Completed International Projects

350 employees

+35 years experience in steel industry



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EUROTRAY

MEKANİK VE ELEKTRİK TESİSAT ASKI SİSTEMLERİ

MÜHENDİSLİK TEMELLİ GÜVENLİ ÇÖZÜMLER

Mekanik ve elektrik tesisatlarında kullanılan boru, hava kanalı, kablo tavası ve ekipmanlara ait askı–taşıyıcı sistemler; yüklerin güvenli şekilde taşınması, yapı bütünlüğünün korunması ve sistem performansının sürdürülebilirliği açısından kritik bir rol üstlenir. Bu sistemler; mühendislik hesapları, malzeme özellikleri ve saha koşulları dikkate alınarak tasarlanır ve yüklerin yapı taşıyıcı elemanlarına kontrollü ve dengeli şekilde aktarılmasını sağlar.

Tesisat hatlarında oluşan yükler iki ana grupta değerlendirilir: statik ve dinamik yükler. Boruların, hava kanallarının, kablo tavalarının, busbar sistemlerinin ve ekipmanların kendi ağırlıkları statik yükleri oluştururken; akışkan hareketlerinden kaynaklanan titreşimler, ekipman çalışmaları, kablo yükleri, termal genleşmeler ve deprem etkileri dinamik yükleri meydana getirir. Bu yükler, uygun şekilde tasarlanmış askı sistemleri aracılığıyla betonarme döşemelere ve çelik taşıyıcılara güvenli biçimde iletilir. Böylece tesisat hatlarında oluşabilecek sehim, deformasyon ve hizalama sorunları önlenir.

Askı ve taşıyıcı sistemlerin tasarımında; yük dağılımı, askı aralıkları, bağlantı detayları ve emniyet katsayıları temel belirleyici parametrelerdir. Kesit geometrileri ve bağlantı elemanları, taşıma kapasitesi ve sistem davranışı dikkate alınarak optimize edilir. Bu yaklaşım hem yapısal güvenliği artırır hem de montaj sırasında kayma, gevşeme ve yer değiştirme risklerini minimize eder.

Standartlara uygun olarak konumlandırılan askı elemanları, tesisat hatlarının doğrultusunu koruyarak sistem stabilitesini artırır. Dengeli yük aktarımı sayesinde yapı elemanlarında oluşabilecek ilave gerilmeler azaltılır ve sistemlerin uzun ömürlü çalışması sağlanır. Bu durum, tesisat güvenliği ile yapı güvenliğinin birlikte ele alındığı bütüncül bir mühendislik yaklaşımını ifade eder.

Modüler sistem tasarımı, uygulama süreçlerine önemli avantajlar sağlar. Standart profil, konsol ve bağlantı elemanlarından oluşan çözümler; farklı proje ihtiyaçlarına kolayca uyarlanabilir, hızlı monte edilebilir ve gerektiğinde revize edilebilir. Böylece uygulama süreleri kısalır, işçilik hataları azalır ve maliyetler kontrol altında tutulur.

Eurotray çözümleri; sürdürülebilir üretim yaklaşımı, yüksek dayanımlı yapı çelikleri ve kalite kontrollü üretim süreçleri ile öne çıkar. Kullanılan malzemeler; mukavemet, boyutsal kararlılık ve uzun servis ömrü kriterlerine göre seçilir. Yüksek korozyon dayanımına sahip kaplama alternatifleri sayesinde sistemler, zorlu şantiye ve işletme koşullarında dahi güvenilir performans sunar.

Doğru mühendislik ile tasarlanan askı ve destek sistemleri, bakım ve erişim süreçlerini de optimize eder. Planlı yerleşim ve erişilebilirlik sayesinde bakım süreleri kısalır, arıza müdahaleleri hızlanır ve işletme sürekliliği sağlanır.

Sonuç olarak, mühendislik esaslı askı ve taşıyıcı sistemler; güvenli yük aktarımı, hızlı montaj, düşük bakım ihtiyacı ve uzun ömürlü kullanım avantajlarıyla mekanik ve elektrik tesisat projelerinde verimliliği ve sistem performansını en üst seviyeye taşır.

MECHANICAL AND ELECTRICAL INSTALLATION SUPPORT SYSTEMS
ENGINEERING-BASED EUROTRAY SOLUTIONS

Support and carrier systems used for pipes, air ducts, cable trays, and equipment in mechanical and electrical installations play a critical role in ensuring the safe transfer of loads, preserving structural integrity, and maintaining system performance sustainability. These systems are designed by considering engineering calculations, material properties, and site conditions, ensuring that loads are transferred to structural elements in a controlled and balanced manner.

Loads occurring in installation lines are evaluated in two main groups: static and dynamic loads. While the self-weight of pipes, air ducts, cable trays, busbar systems, and equipment constitutes static loads; vibrations caused by fluid movement, equipment operation, cable loads, thermal expansions, and seismic effects create dynamic loads. These loads are safely transmitted to reinforced concrete slabs and steel structures through properly designed support systems. As a result, issues such as deflection, deformation, and misalignment in installation lines are prevented.

In the design of support and carrier systems, load distribution, support spacing, connection details, and safety factors are the main determining parameters. Cross-sectional geometries and connection elements are optimized by considering load-bearing capacity and system behavior. This approach enhances structural safety while minimizing the risks of slipping, loosening, and displacement during installation.

Support elements positioned in accordance with standards maintain the alignment of installation lines and improve system stability. Balanced load transfer reduces additional stresses on structural components and ensures long service life of the systems. This represents a holistic engineering approach where installation safety and structural safety are addressed together.

Modular system design provides significant advantages in application processes. Solutions consisting of standard profiles, brackets, and connection elements can be easily adapted to different project requirements, installed quickly, and revised when necessary. This shortens application times, reduces labor errors, and keeps costs under control.

Eurotray solutions stand out with their sustainable production approach, high-strength structural steels, and quality-controlled manufacturing processes. The materials used are selected based on strength, dimensional stability, and long service life criteria. Thanks to coating alternatives with high corrosion resistance, systems deliver reliable performance even under harsh site and operating conditions.

Support and suspension systems designed with proper engineering also optimize maintenance and accessibility processes. Planned layout and accessibility shorten maintenance times, accelerate fault interventions, and ensure operational continuity.
As a result, engineering-based support and carrier systems maximize efficiency and system performance in mechanical and electrical installation projects with advantages such as safe load transfer, fast installation, low maintenance requirements, and long service life.

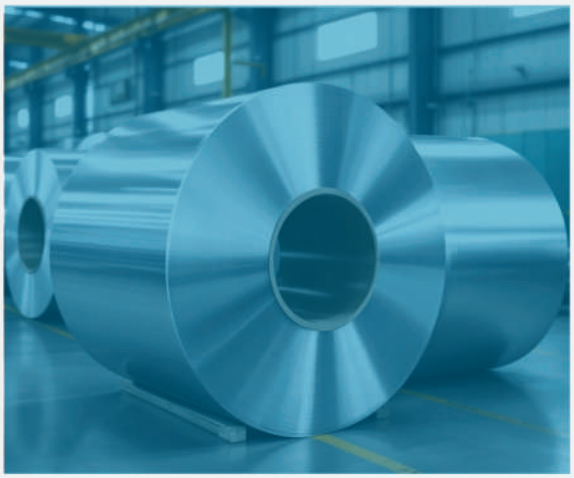


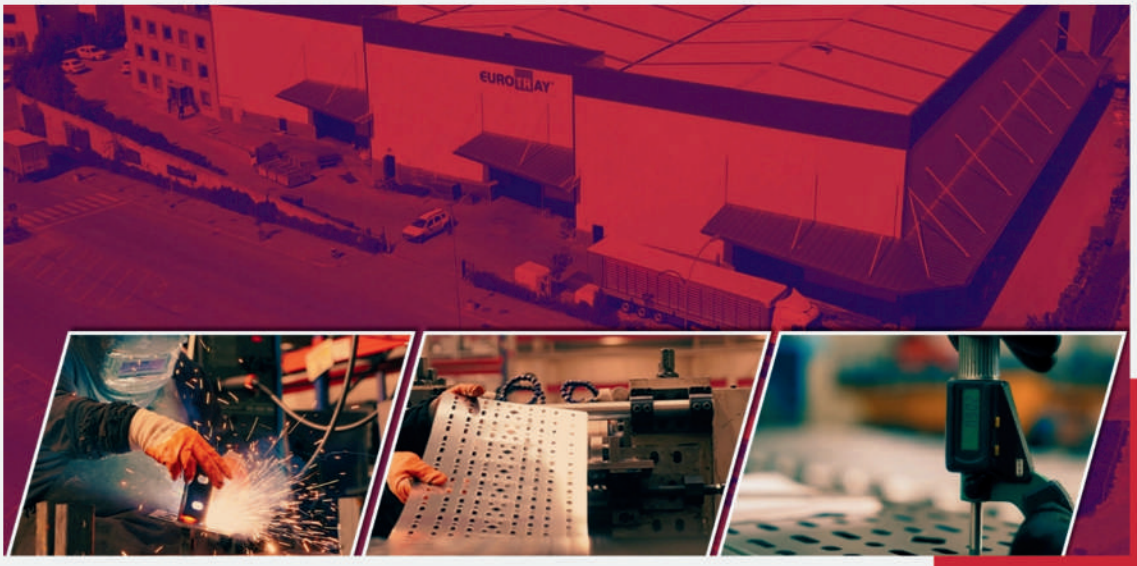
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Çelik ve Daha Fazlası

1994 yılında kurulan şirketimiz, dünya çapında önde gelen sanayi kuruluşları için bir çelik servis merkezi olarak hizmet vermeye devam etmektedir. Yeni dilme, boy kesme ve çoklu kesim hatlarımızla üretim yeteneklerimizi ve kapasitemizi sürekli artırıyoruz. Buna ek olarak, rulo soğuk şekillendirme hatlarımızla güneş enerjisi, asansör imalatı, HVAC (Isıtma, Havalandırma ve İklimlendirme), cephe sistemleri ve otomotiv gibi çeşitli sektörler için özel profil üretimimizi sürekli genişletiyoruz.







EUROTRAY®

Çelikle Güçlenen Destek

Mekanik Tesisat Askılama Sistemleri, Kablo Yönetim Destek Sistemleri ve Güneş Enerjisi Yer Montaj Destek Sistemleri alanında deneyimli bir çelik üreticisi olan Eurotray, yenilikçi tasarımı ve yüksek kaliteli üretimiyle her projede güvenilir destek sunar. Projelerinizin temelini Eurotray ile güçlendirin ve kaliteyle desteklenen çözümlerle bir adım öne geçin.





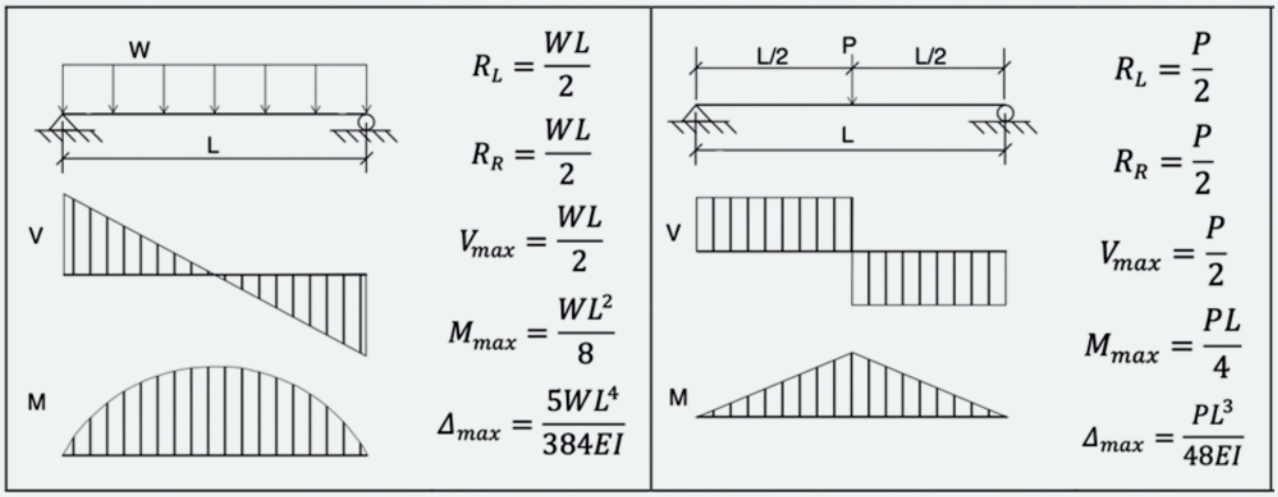
MODÜLER DESTEK SİSTEMİ PROFİLLERİ

Eurotray modüler destek sistemi profilleri, mekanik ve elektrik tesisat askı sistemlerinde kullanılan kiriş uygulamaları için geliştirilmiş yapısal çözümler sunar. Bu kirişler, borulama, hava kanalı, kablo tavası, busbar ve ekipmanlardan kaynaklanan statik yükleri taşıyan ana taşıyıcı elemanlar olup, kesme kuvveti, eğilme, burulma ve sehim etkileri dikkate alınarak tasarlanırlar.

Tesisat sistemlerinde kirişler, statik yüklere ek olarak deprem etkileri, termal genleşme ve montajdan doğan eksenel yüklere de maruz kalabilir. Bu nedenle taşıyıcı elemanların, eğilme ve basınç etkilerinin birleşimi altında güvenli çalışmasını sağlamak için statik ve sismik yük kombinasyonlarına göre mukavemet analizleri yapılması ve buna uygun boyutlandırılması gerekir.

Eurotray, uzman mühendislik kadrosu ile mekanik ve elektrik tesisatı askı sistemlerine yönelik statik ve deprem yükü hesaplarını gerçekleştirir, bu analizlere dayanarak projeye özel, güvenli ve optimize edilmiş modüler konsol çözümleri sunar. Bu yaklaşım, yüksek taşıma kapasitesi, standartlara uygunluk ve uzun ömürlü kullanım sağlar.

Simply-Supported Beams



MODULAR SUPPORT SYSTEM PROFILES

Eurotray's modular support system profiles are designed to provide strong and reliable solutions for beam structures used in mechanical and electrical suspension systems. These beams carry the weight of pipes, air ducts, cable trays, busbars, and other equipment, and are designed to handle forces like bending, torsion and deflection effects.

In addition to regular loads, these beams may also face challenges such as earthquakes, thermal expansion, and installation-induced loads. That's why it's important to calculate strength according to both static and seismic loads and to size the system properly to keep it safe and stable under combined loading conditions.

With its experienced engineering team, Eurotray performs structural and seismic calculations and offers tailored modular support solutions for each project. This ensures strong load capacity, full compliance with standards and long-term performance.

TEKNİK DÖKÜMANLAR
TECHNICAL DOCUMENTS

DN	**Boyut** Dimension	**Dış Çapı** Outher Diameter	**Boş Ağırlık** Empty Weight	**Su Dolu Ağırlığı** Water-filled Weight	**Su Dolu + İzolasyonlu Ağırlık** Water-filled + Insulated Weight	**Askı Mesafesi** Support Span
		∅ mm	kg/m	kg/m	kg/m	m
8	1/4"	13.5	0.5	0.6	1.4	2.00
10	3/8"	17.2	0.7	0.8	1.9	2.00
15	1/2"	21.3 25.0	1.0 1.1	1.2 1.5	2.2 2.8	2.00 2.00
20	3/4"	26.9 30.0 31.8	1.4 1.8 1.9	1.8 2.3 2.4	3.1 4.0 4.2	2.10 2.10 2.10
25	1"	33.7 38.0	2.0 2.3	2.6 3.1	4.7 5.2	2.10 2.10
32	11/4"	42.4 44.5	2.6 2.7	3.7 3.9	5.7 5.9	2.10 2.10
40	11/2"	48.3 51.0 57.0	3.0 3.1 3.9	4.4 4.8 6.0	7.4 7.7 10.0	2.40 2.40 2.40
50	2"	60.3 63.5 70.0	4.1 4.4 4.8	6.5 7.0 8.1	10.5 11.0 13.4	3.00 3.00 3.00
65	2 1/2"	76.1 82.5	5.3 6.3	9.2 10.9	14.8 19.2	3.00 3.00
80	3"	88.9 101.6 108.0	6.8 8.8 9.3	12.2 15.8 17.3	20.4 27.0 29.1	3.50 3.50 3.50
100	4"	114.3 127.0 133.0	9.9 12.2 12.8	18.9 23.3 25.1	30.6 36.1 37.8	4.00 4.00 4.00
125	5"	139.7 152.4 159.0 165.1	13.5 16.5 17.3 17.9	21.7 32.7 34.9 37.1	40.3 47.1 49.2 52.0	4.00 4.00 4.00 4.00
150	6"	168.3 177.8 193.7	18.3 21.4 25.2	38.2 43.6 51.5	53.0 58.1 68.0	4.50 4.50 4.50
200	8"	219.1 244.5 267.0	31.2 37.2 40.8	65.0 79.5 91.6	83.3 98.6 112.7	6.00 6.00 6.00
250	10"	273.0	41.6	94.9	117.7	6.00
300	12"	323.9	55.6	131.0	156.6	6.00

YÜZEY KORUMA VE DAYANIKLILIK
CORROSION RESISTANCE AND DURABILITY

DIN EN 12944'E GÖRE KOROZYON KATEGORİLERİ / CORROSION CATEGORIES ACCORDING TO DIN EN 12944

	KOROZYON KATEGORİSİ CORROSION CATEGORY	İÇ ORTAM BİNA INDOOR AREAS	DIŞ ORTAM OUTDOOR AREAS	KOROZYON YÜKÜ CORROSION RATE	ORTALAMA YILLIK ÇİNKO KAYBI AVERAGE ANNUAL ZINC EROSION
	C1	**KURU NEMSİZ ORTAM** DRY ENVİRONMENT	-	**ÇOK DÜŞÜK** VERY LOW	**< 0.1 MİKRON** < 0.1 MICRONS
	C2	**DEPOLAR** WAREHOUSE	**AÇIK ARAZİ** OPEN FIELD	**DÜŞÜK** LOW	**0.1–0.7 MİKRON** 0.1–0.7 MICRONS
	C3	**YÜKSEK NEME SAHİP OTOPARK VE YER ALTI METROLAR** CAR PARKS AND SUBWAYS	**ŞEHİR VE KİRLİ ÇEVRE** URBAN AND AREAS	**ORTA** MEDIUM	**0.7–2.1 MİKRON** 0.7–2.1 MICRONS
	C4	**KİMYA VE ENERJİ TESİSLERİ** CHEMICAL AND POWER PLANTS	**ENDÜSTRİYEL BÖLGE** INDUSTRIAL AREA	**KUVVETLİ** HIGH	**2.1–4.2 MİKRON** 2.1–4.2 MICRONS
	C5-I	**SÜREKLİ NEM OLAN BÖLGELER** DAMP PLACES	**YÜKSEK VE YOĞUN NEM OLAN ENDÜSTRİYEL BÖLGE** HIGH CORROSIVE ATMOSPHERE	**ÇOK KUVVETLİ** VERY HIGH	**4.2–8.4 MİKRON** **4.2–8.4 MIKRON**

MALZEMELER & YÜZEY İŞLEMLERİ
MATERIALS & SURFACE TREATMENTS

ÇİNKO MAGNEZYUM

Çinko Magnezyum kaplama, metal yüzeylerde uzun süreli korozyon direnci sağlayan ileri teknoloji bir kaplama çözümüdür. Özel kimyasal bileşimi sayesinde, geleneksel galvaniz kaplamalara kıyasla daha homojen, dayanıklı ve estetik bir yüzey elde edilir. Yaklaşık %3 magnezyum ve %3,5 alüminyum içeren bu yapı, yüzeyde kendini yenileyebilen koruyucu bir tabaka oluşturarak dış etkenlere karşı üstün koruma sağlar.

Çinko Magnezyum kaplama, galvaniz kaplamalara göre 10 kata kadar daha yüksek korozyon direnci sunarak en zorlu çevresel koşullarda dahi maksimum yüzey koruması sağlar. Uzun ömürlü yapısı, düşük bakım ihtiyacı ve estetik görünümü ile yeni nesil kaplama standardı olarak öne çıkar.*

Özellikle tuz, nem ve kimyasal etkilere karşı yüksek direnç gösteren bu kaplama, kesilmiş kenarlar ve açık yüzeylerde dahi koruyucu film oluşturarak pas oluşumunu engeller. Bu sayede ürün ömrünü uzatırken performans sürekliliğini garanti altına alır.

Çevre dostu E-passivasyon seçenekleri ile sunulabilen Çinko Magnezyum kaplama, sürdürülebilir üretim yaklaşımını desteklerken bakım maliyetlerini minimize ederek endüstriyel uygulamalar için güçlü ve güvenilir bir çözüm sunar.

ZINC - MAGNESIUM

Zinc-Magnesium coating is an advanced surface protection technology that provides long-term corrosion resistance for metal surfaces. Thanks to its optimized chemical composition, it delivers a more uniform, durable, and aesthetically superior surface compared to conventional galvanized coatings. Typically containing approximately 3% magnesium and 3.5% aluminum, this coating system forms a self-healing protective layer that ensures enhanced resistance against environmental influences.

Zinc-Magnesium coating offers up to 10 times higher corrosion resistance compared to traditional galvanized coatings, delivering maximum surface protection even under the most demanding environmental conditions. With its extended service life, reduced maintenance requirements, and superior surface quality, it represents a next-generation coating standard.

This coating demonstrates excellent resistance to salt (chlorides), humidity, and chemical exposure. It also provides edge protection by forming a protective film on cut edges and exposed surfaces, effectively preventing the initiation of corrosion. As a result, it extends product lifespan while ensuring consistent performance over time.

Available with environmentally friendly E-passivation options, Zinc-Magnesium coating supports sustainable production practices while minimizing maintenance costs, making it a reliable and high-performance solution for industrial applications.

EUROTRAY®

SICAK DALDIRMA YÖNTEMİ İLE GALVANİZLEME

Metal yüzeylerin korozyona karşı korunmasında en etkili yöntemlerden biri çinko kaplama (galvanizleme) olup, yüzeyde oluşturduğu dayanıklı tabaka sayesinde pas oluşumunu önemli ölçüde geciktirir.

Çinko, demire göre daha anodik bir metal olduğundan öncelikli olarak oksitlenerek yüzeyi korur ve uzun ömürlü bir bariyer sağlar.

Özellikle sıcak daldırma galvanizleme yöntemi, yaklaşık 150 yıldır çelik yapıların korunmasında güvenle kullanılmakta olup, yüksek dayanım ve ekonomik avantajları sayesinde endüstride yaygın bir çözüm olarak öne çıkar.

Galvanizleme süreci; malzeme kabulü ve uygunluk kontrolü ile başlar, ardından askılama, yağ alma ve asitle yüzey temizleme işlemleri ile devam eder. Yüzeyi tamamen arındırılan ürünler durulama ve flaks kaplama aşamalarından geçirilerek kaplamaya hazır hale getirilir.

Sonrasında 445–465 °C sıcaklıktaki erimiş çinko banyosuna daldırılarak yüzeyde metalurjik bağ ile homojen bir kaplama oluşturulur. İşlem sonrası kontrollü soğutma yapılır, kaplama kalınlığı ölçülerek kalite kontroller tamamlanır.

Gerekli durumlarda yüzey düzeltmeleri uygulanır ve ürünler paketlenerek sevkiyata hazır hale getirilir

HOT-DIP GALVANIZATION METHOD

Zinc coating (galvanization) is one of the most effective methods for protecting metal surfaces against corrosion. It forms a durable protective layer that significantly delays the onset of rust.

Since zinc is more anodic than iron, it corrodes preferentially, thereby protecting the underlying steel and providing long-term barrier protection.

In particular, the hot-dip galvanizing process has been used for over 150 years to protect steel structures, offering high durability and cost efficiency, making it a widely adopted solution across industrial applications.

The galvanizing process begins with material inspection and conformity verification, followed by racking, degreasing, and acid pickling to ensure complete surface cleaning. The cleaned components are then rinsed and treated with a flux solution to enhance coating adhesion.

Subsequently, the materials are immersed in a molten zinc bath at temperatures between 445–465 °C, where a uniform coating is formed through a metallurgical bonding process. After galvanizing, the products undergo controlled cooling, coating thickness measurement, and final quality inspection.

If required, surface finishing operations are performed before packaging and shipment.

EUROTRAY®

MALZEMELER & YÜZEY İŞLEMLERİ
MATERIALS & SURFACE TREATMENTS



PASLANMAZ ÇELİK

Metallerin paslanması, temelde oksijen ve nem etkisiyle gerçekleşen bir oksitlenme sürecidir. Özellikle demir, çevresel koşullara bağlı olarak hızla paslanarak mekanik özelliklerini kaybeder.

Çelik, demire karbon ilavesiyle mukavemet kazanmasına rağmen paslanmaya karşı tamamen dirençli değildir. Pas, yüzeyde oluşan ince bir tabaka ile başlasa da zamanla derinlere nüfuz ederek malzemenin dayanıklılığını azaltır. Tuz, nem ve kimyasal etkenler bu süreci hızlandırır.

Paslanmaz çelik ise yapısına yaklaşık %10 oranında krom eklenmesiyle elde edilir. Krom, yüzeyde koruyucu bir oksit tabakası oluşturarak paslanmayı engeller ve kendini yenileyebilir.

Bu sayede paslanmaz çelik; korozyona dayanıklı, uzun ömürlü, hijyenik ve düşük bakım gerektiren bir malzeme olarak öne çıkar.

Ayrıca yüksek mukavemeti, estetik görünümü ve kolay temizlenebilir yapısı ile birçok endüstride güvenle tercih edilmektedir.

STAINLESS STEEL

Corrosion of metals is fundamentally an electrochemical oxidation process driven by the presence of oxygen and moisture. Iron, in particular, is highly susceptible to corrosion and can rapidly lose its mechanical properties depending on environmental conditions.

Although steel gains strength through the addition of carbon, it is not inherently corrosion-resistant. Rust initially forms as a thin surface layer but progressively penetrates deeper into the material, leading to a reduction in structural integrity over time. Factors such as salt (chlorides), humidity, and chemical exposure significantly accelerate this process.

Stainless steel, on the other hand, is produced by adding a minimum of approximately 10.5% chromium to its composition. Chromium forms a passive oxide layer (passivation layer) on the surface, which prevents corrosion and has the ability to self-heal when damaged.

As a result, stainless steel provides excellent corrosion resistance, long service life, hygienic properties, and low maintenance requirements.

Its high strength, aesthetic appearance, and ease of cleaning make it a reliable and widely preferred material across a wide range of industrial applications.

EUROMASTER NEDİR?
WHAT IS EUROMASTER?

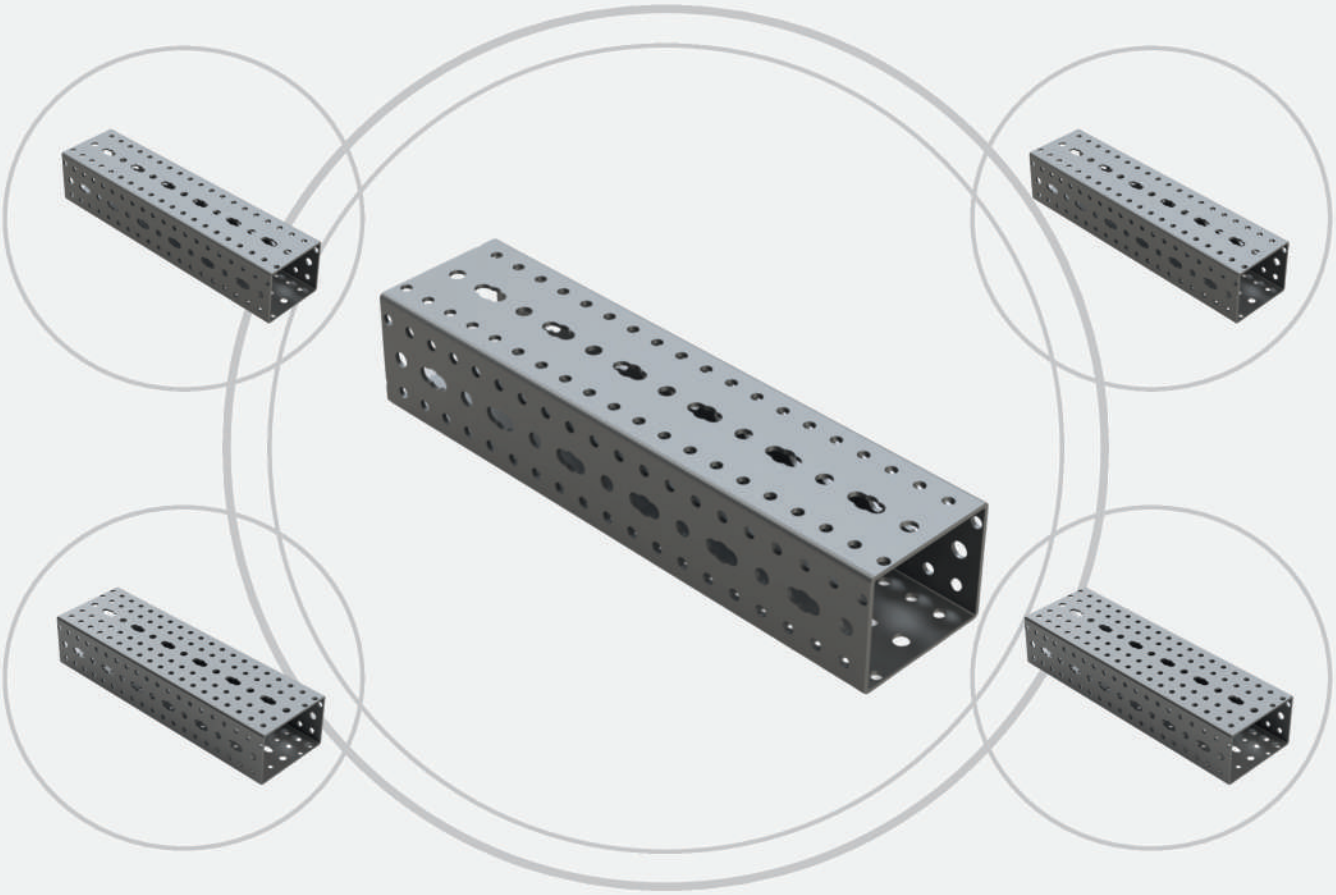
EUROMASTER Ağır Hizmet Tipi Kablo Taşıma ve Mekanik Destek Sistemleri, ağır sanayi tesisleri, enerji üretim sahaları (GES/RES), yüksek yoğunluklu veri merkezleri (Data Center), tüneller, limanlar ve raylı sistemler gibi kritik altyapı projelerindeki yüksek kablo yüklerini ve mekanik gerilimleri güvenle yönetmek amacıyla tasarlanmış profesyonel bir ürün grubudur; elektrogalvaniz ve sıcak daldırma galvaniz kaplama seçeneklerinin yanı sıra özellikle bünyesindeki çinko-magnezyum (Zn-Mg) alaşımlı yeni nesil kaplama teknolojisi sayesinde en agresif C4 ve C5 korozyon sınıflarında dahi standart kaplamalara kıyasla katbekat üstün pas direnci ve kesim, delik ile büküm kenarlarında kendi kendini onaran (self-healing) benzersiz bir yüzey koruması sunar. Güçlendirilmiş kenar geometrisi ve optimize edilmiş rijit gövde yapısıyla geniş askı/konsol açıklıklarında dahi minimum sehim payıyla maksimum taşıma kapasitesi sağlayarak montaj işçiliği ve altyapı maliyetlerinde ciddi tasarruf oluşturan EUROMASTER, zengin modüler ek elemanları ve tam sistem entegrasyonuyla kabloların mekanik darbelere, sarkmalara ve zorlu çevresel etkilere karşı onlarca yıl boyunca güvenle taşınmasını ve korunmasını garanti eder.

EUROMASTER Heavy-Duty Cable Management & Mechanical Support Systems is a professional product line engineered to reliably manage high cable loads and severe mechanical stress across critical infrastructure projects, including heavy industrial plants, renewable energy sites (solar and wind), high-density data centers, tunnels, ports, and railway networks; alongside electro-galvanized and hot-dip galvanized (HDG) coating options, it stands out particularly with its next-generation zinc-magnesium (Zn-Mg) alloy coating technology, which delivers superior corrosion resistance even in aggressive C4 and C5 atmospheric environments as well as an exceptional self-healing barrier along cut edges, perforations, and bends. Combining this advanced chemical resilience with reinforced flange geometry and an optimized, rigid body profile, EUROMASTER maximizes load-bearing capacity with minimal deflection over wide support and bracket spans—significantly reducing on-site installation labor and infrastructure costs—while its modular connection accessories and full system integration ensure decades of structural integrity and continuous protection against mechanical impact, sagging, and harsh ambient conditions.

EUROTRAY®

EUROMASTER KUTU PROFİLLER

EURO MASTER SQUARE HOLLOW SECTIONS



Kutu Profil, mekanik tesisatlarda, ağır hizmet tipi kablo güzergâhlarında, boru ve ekipmanların güvenli şekilde taşınması ve sabitlenmesi için kullanılan dayanıklı bir taşıyıcı elemandır. Kapalı kesit geometrisi sayesinde burulma ve bükülmelere karşı yüksek mukavemet sunar. Galvaniz kaplı yapısıyla korozyona karşı üstün direnç gösterirken, çok yönlü delikli (modüler) tasarımı kaynak gerektirmeden hızlı montaj imkânı tanır. Ağır yükleri dengeli dağıtarak sistem güvenliğini artırır, montaj ve bakım süreçlerinde pratiklik ve esneklik sağlar.

Square hollow sections is a heavy-duty structural support element designed for the safe routing, suspension, and fixing of pipes, cable trays, and equipment in mechanical installations. Thanks to its closed-section geometry, it delivers superior torsional rigidity and high load-bearing capacity. Its galvanized coating provides exceptional corrosion resistance, while the multi-sided perforated design enables fast, weld-free modular assembly. By distributing heavy mechanical loads evenly, it maximizes system safety and brings long-term flexibility to maintenance and expansion workflows.

ESTETİK
AESTHETICS

İMALAT HIZI
MANUFACTURING SPEED

MÜHENDİSLİK DESTEĞİ
ENGINEERING SUPPORT

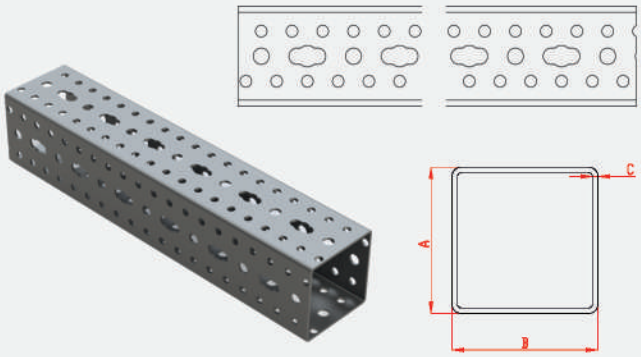
MALİYET
COST

HD **Sıcak Daldırma Galvaniz EN 1461**
Hot-Dip Galvanized EN 1461

ZM **ZM, ZM310 – C3 Dış Mekan | EN 10025 ASTM A1046**
ZM, ZM310-for C3 outdoor use | EN 10025 ASTM A1046

EURO MASTER KUTU PROFİLLER
EURO MASTER SQUARE HOLLOW SECTIONS

ESEM - 01 / 80*80*3 MM KUTU PROFİL
ESEM - 01 / 80*80*3 MM SQUARE HOLLOW SECTION



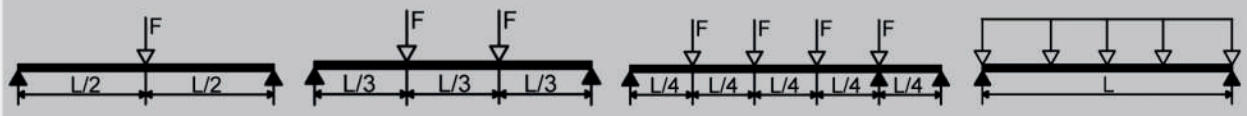
Profil Kesit Özellikleri / Cross-Sectlonal Propertles of the Profile

ZM HD EN 10025 STD S355

Elastik Kesit Modülü / Elastic Section Modulus **(Sy,max)(cm³)**	13,86
Elastik Kesit Modülü / Elastic Section Modulus **(Sz,max)(cm³)**	13,86
Atalet Momenti / Moment of Inertia **Iy: (cm⁴)**	55,43
Atalet Momenti / Moment of Inertia **Iz: (cm⁴)**	55,43
Malzeme / Material	S 355
Elastisite / Elasticity **(N/mm²)**	210.000

Kod / Code	**Boyut** / Size	**A**	**B**	**C**	**L**	**Ağırlık** / Weight
	mm x mm x mm	**mm**	**mm**	**mm**	**mm**	**kg/m**
ESEM-01	80 x 80 x 3	80	80	3	6000	5,92

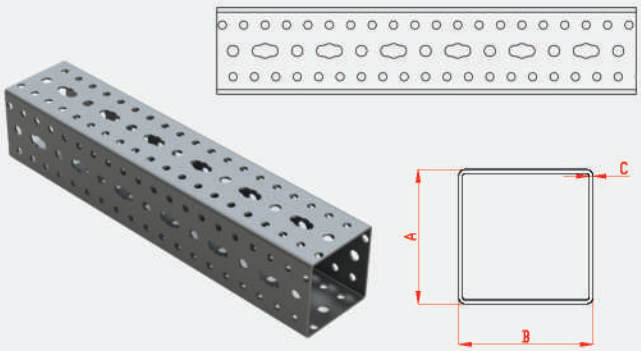
ESEM-01



	ESEM-01/80*80*3 MM			
mm	(N)			
	Fe	**2Fe**	**4Fe**	**F=qxL**
500	29136	43688	47628	77205
1000	14562	21827	23789	38553
1500	9711	14562	15843	19417
2000	6962	8142	9025	10886
2500	4413	5200	5787	6962
3000	3040	3628	4020	4804
4000	1667	1961	2256	2648
5000	1079	1275	1373	1667
6000	686	883	981	1176

EURO MASTER KUTU PROFİLLER
EURO MASTER SQUARE HOLLOW SECTIONS

ESEM - 02 / 100*100*3 MM KUTU PROFİL
ESEM - 02 / 100*100*3 MM SQUARE HOLLOW SECTION



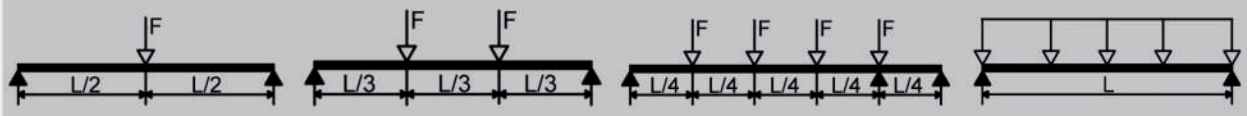
Profil Kesit Özellikleri / Cross-Sectlonal Propertles of the Profile

ZM HD EN 10025 STD S355

Elastik Kesit Modülü / Elastic Section Modulus **(Sy,max)(cm³)**	24,54
Elastik Kesit Modülü / Elastic Section Modulus **(Sz,max)(cm³)**	24,54
Atalet Momenti / Moment of Inertia **Iy: (cm⁴)**	122,68
Atalet Momenti / Moment of Inertia **Iz: (cm⁴)**	122,68
Malzeme / Material	S 355
Elastisite / Elasticity **(N/mm²)**	210.000

Kod / Code	**Boyut** / Size	**A**	**B**	**C**	**L**	**Ağırlık** / Weight
	mm x mm x mm	**mm**	**mm**	**mm**	**mm**	**kg/m**
ESEM-02	100 x 100 x 3	100	100	3	6000	7,81

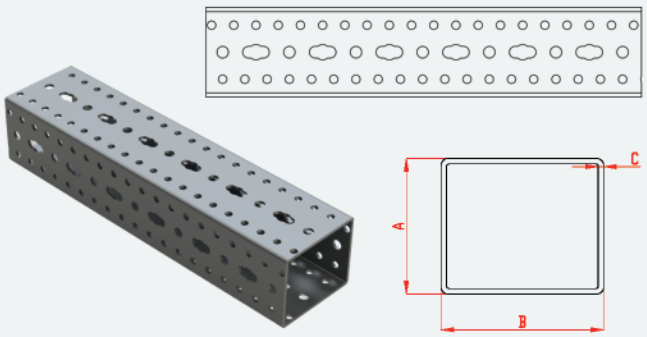
ESEM-02



	ESEM-02/100*100*3 MM			
mm	(N)			
	Fe	**2Fe**	**4Fe**	**F=qxL**
500	51600	77360	84346	136653
1000	25799	38700	42168	68278
1500	17161	25799	28108	43051
2000	12898	17946	20202	24222
2500	9806	11572	12945	15494
3000	6867	8044	8927	10689
4000	3824	4512	5000	5982
5000	2451	2943	3237	3824
6000	1667	1961	2157	2648

EURO MASTER KUTU PROFİLLER
EURO MASTER SQUARE HOLLOW SECTIONS

ESEM - 03 / 100*120*4 MM KUTU PROFİL
ESEM - 03 / 100*120*4 MM SQUARE HOLLOW SECTION



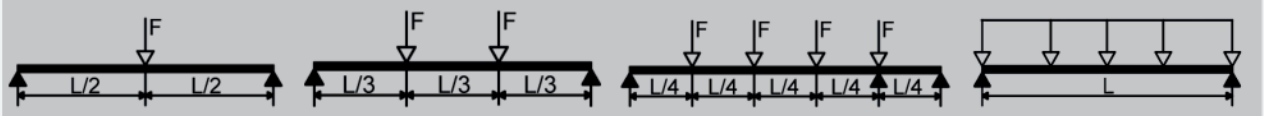
Profil Kesit Özellikleri / Cross-Sectlonal Propertles of the Profile

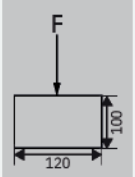
ZM HD EN 10025 STD S355

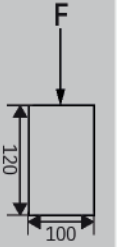
Elastik Kesit Modülü / Elastic Section Modulus **(Sy,max)(cm³)**	40,42
Elastik Kesit Modülü / Elastic Section Modulus **(Sz,max)(cm³)**	38,73
Atalet Momenti / Moment of Inertia **Iy: (cm⁴)**	242,54
Atalet Momenti / Moment of Inertia **Iz: (cm⁴)**	193,63
Malzeme / Material	S 355
Elastisite / Elasticity **(N/mm²)**	210.000

Kod / Code	**Boyut** / Size	A	B	C	L	**Ağırlık** / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-03	100 x 120 x 4	100	120	4	6000	11,59

ESEM-03



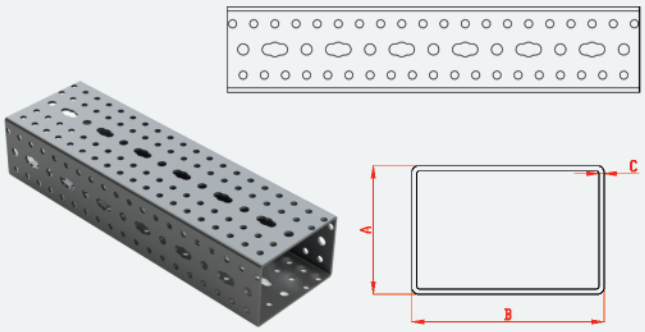




mm	ESEM-03/120*100*4 MM (N)				ESEM-03/100*120*4 MM (N)			
	Fe	2Fe	4Fe	F=qxL	Fe	2Fe	4Fe	F=qxL
500	81395	122183	133121	215702	84954	127530	138273	225065
1000	40711	61046	66502	107810	42462	63743	69455	112520
1500	27124	40712	44341	67983	28243	42487	46303	75069
2000	20353	28547	31970	38247	21182	31871	34727	47872
2500	15597	18240	20406	24418	16966	22857	25595	30597
3000	10791	12655	14225	16954	13553	15696	17748	21285
4000	6080	7060	7946	9505	7554	8924	1006	11966
5000	3824	4511	5100	6080	4805	5687	6374	7649
2500	2648	3140	3530	4216	3334	3924	4414	5295

EURO MASTER KUTU PROFİLLER
EURO MASTER SQUARE HOLLOW SECTIONS

ESEM - 04 / 100*150*4 MM KUTU PROFİL
ESEM - 04 / 100*150*4 MM SQUARE HOLLOW SECTION



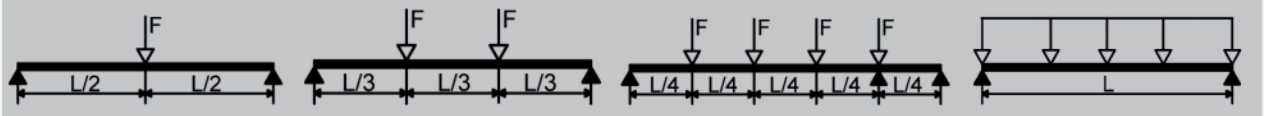
Profil Kesit Özellikleri / Cross-Sectlonal Propertles of the Profile

ZM HD EN 10025 STD S355

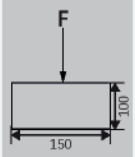
Elastik Kesit Modülü / Elastic Section Modulus **(Sy,max)(cm³)**	54,11
Elastik Kesit Modülü / Elastic Section Modulus **(Sz,max)(cm³)**	42,79
Atalet Momenti / Moment of Inertia **Iy: (cm⁴)**	405,82
Atalet Momenti / Moment of Inertia **Iz: (cm⁴)**	213,97
Malzeme / Material	S 355
Elastisite / Elasticity **(N/mm²)**	210.000

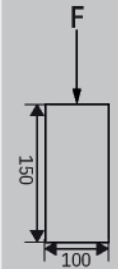
Kod / Code	**Boyut** / Size	**A**	**B**	**C**	**L**	**Ağırlık** / Weight
	mm x mm x mm	**mm**	**mm**	**mm**	**mm**	**kg/m**
ESEM-04	100 x 150 x 4	100	150	4	6000	13,12

ESEM-04



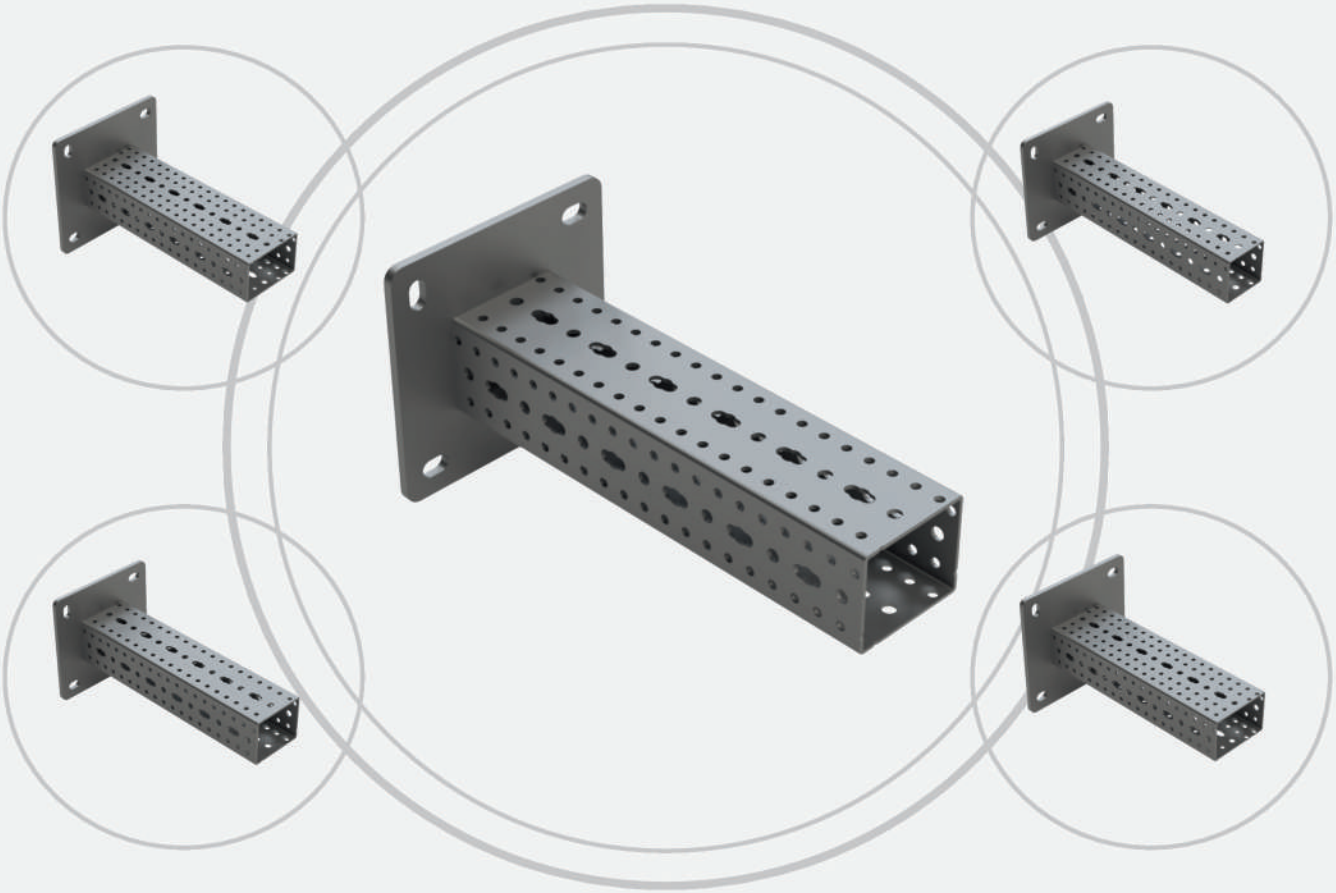
mm	**ESEM-03/150*100*4 MM** (N)				**ESEM-03/100*150*4 MM** (N)			
	Fe	**2Fe**	**4Fe**	**F=qxL**	**Fe**	**2Fe**	**4Fe**	**F=qxL**
500	89990	134939	147100	235360	113757	170636	186032	301298
1000	44979	67492	73575	117680	56878	85353	93098	150681
1500	29960	44963	49033	74556	37866	56898	61978	100356
2000	22464	31588	35316	42266	28448	42664	46500	75264
2500	17161	20208	22563	27066	22736	34138	37170	51306
3000	11968	14028	15691	18737	18926	26575	29714	35598
4000	6670	7848	8829	10493	12748	14910	16775	19992
5000	4216	5000	5493	6768	8140	9510	10693	12748
2500	2943	3433	3922	4610	5590	6570	7453	8826





EURO MASTER PROFİL KÖŞE KONSOLLAR

EURO MASTER PROFILE CORNER BRACKETS



Profil Köşe Konsolları, mekanik tesisatlarda, profil konstrüksiyonlarında ve kablo taşıma sistemlerinde dik ve yatay profillerin rijit, güvenli ve 90 derecelik açıyla birleştirilmesini sağlayan bağlantı elemanlarıdır. Galvaniz kaplı yapısı sayesinde korozyona karşı üstün dayanım sunar. Modüler delik geometrisi, kaynak işlemine gerek kalmadan cıvata ve somunla hızlı, hatasız montaj imkânı verir. Köşe noktalarındaki yükleri dengeli dağıtarak bükülme ve esnemeleri önler, sistem stabilitesini artırır ve bakım-revizyon süreçlerinde pratiklik sağlar.

Profile Corner Brackets are essential structural connection elements designed for the rigid, safe, and precise 90-degree assembly of vertical and horizontal profiles in mechanical installations and cable support systems. Thanks to their galvanized coating, they offer superior resistance to corrosion. The modular hole pattern enables fast, weld-free, and accurate bolted assembly. By distributing point loads evenly across structural joints, they prevent deflection, significantly enhance overall frame stability, and provide maximum practicality during maintenance and reconfiguration.

ESTETİK
AESTHETICS

İMALAT HIZI
MANUFACTURING SPEED

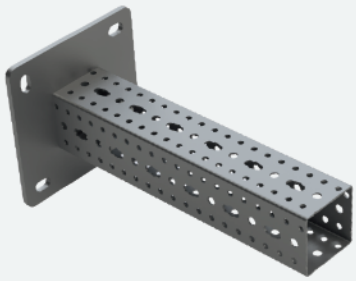
MÜHENDİSLİK DESTEĞİ
ENGINEERING SUPPORT

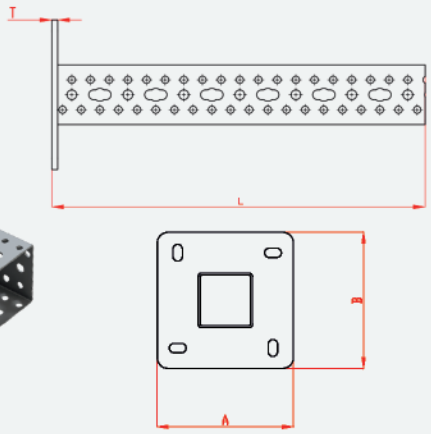
MALİYET
COST

HD **Sıcak Daldırma Galvaniz EN 1461**
Hot-Dip Galvanized EN 1461

EURO MASTER PROFİL KÖŞE KONSOLLAR
EURO MASTER PROFILE CORNER BRACKETS

ESEM - 05 / ESEM - 06 / ESEM - 07 KÖŞE KONSOL
ESEM - 05 / ESEM - 06 / ESEM - 07 CORNER BRACKETS



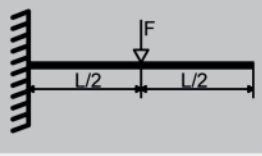


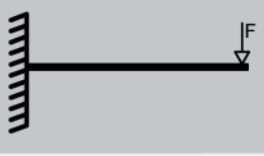
Profil Kesit Özellikleri / Cross-Sectional Properties of the Profile	
Elastik Kesit Modülü / Elastic Section Modulus **(Sy,max)(cm³)**	13,86
Elastik Kesit Modülü / Elastic Section Modulus **(Sz,max)(cm³)**	13,86
Atalet Momenti / Moment of Inertia **Iy: (cm⁴)**	55,43
Atalet Momenti / Moment of Inertia **Iz: (cm⁴)**	55,43
Malzeme / Material	355
Elastisite / Elasticity **(N/mm²)**	210.000

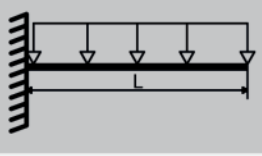
S355 PROFİL / PROFILE **S355 PLAKA** / PLATE HD

Kod / Code	**Boyut** / Size	**A**	**B**	**L**	**T**	**Ağırlık** / Weight
	mm x mm x mm	**mm**	**mm**	**mm**	**mm**	**kg/m**
ESEM-05	200 x 200 x 500	200	200	500	8	5,35
ESEM-06	200 x 200 x 1000	200	200	1000	8	8,35
ESEM-07	200 x 200 x 1500	200	200	1500	8	11,32

ESEM-5
ESEM-6
ESEM-7



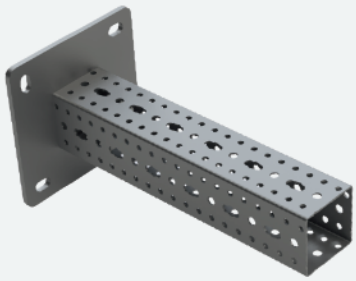


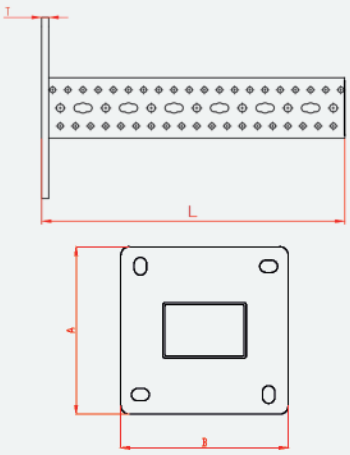


	EURO MASTER 80X80X3 KÖŞE KONSOL / EURO MASTER 80X80X3 CORNER BRACKETS		
mm	**F (N)**		
500	6,15	12,71	18,03
1000	3,36	6,94	5,18
1500	2,01	4,15	2,11

EURO MASTER PROFİL KÖŞE KONSOLLAR
EURO MASTER PROFILE CORNER BRACKETS

ESEM - 08 / ESEM - 09 / ESEM - 10 KÖŞE KONSOL
ESEM - 08 / ESEM - 09 / ESEM - 10 CORNER BRACKETS



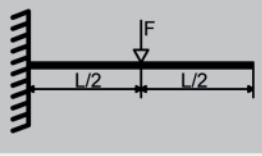


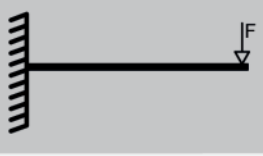
Profil Kesit Özellikleri / Cross-Sectional Properties of the Profile	
Elastik Kesit Modülü / Elastic Section Modulus (Sy,max)(cm³)	24,54
Elastik Kesit Modülü / Elastic Section Modulus (Sz,max)(cm³)	24,54
Atalet Momenti / Moment of Inertia Iy: (cm⁴)	122,68
Atalet Momenti / Moment of Inertia Iz: (cm⁴)	122,68
Malzeme / Material	355
Elastisite / Elasticity (N/mm²)	210.000

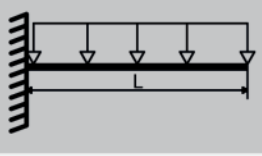
S355 PROFİL / PROFILE S355 PLAKA / PLATE HD

Kod / Code	Boyut / Size	A	B	L	T	Ağırlık / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-08	250 x 250 x 500	250	250	500	10	8,58
ESEM-09	250 x 250 x 1000	250	250	1000	10	12,5
ESEM-10	250 x 250 x 1500	250	250	1500	10	16,6

ESEM-8
ESEM-9
ESEM-10



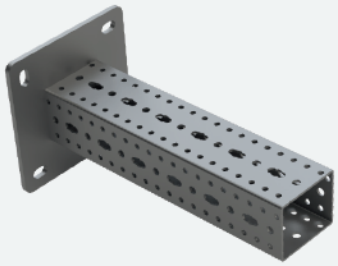


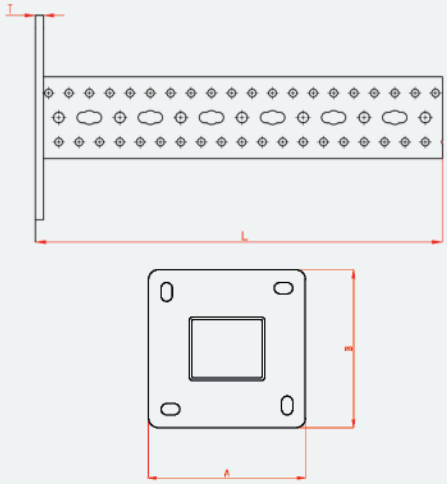


	EURO MASTER 100X100X3 KÖŞE KONSOL / EURO MASTER 100X100X3 CORNER BRACKETS		
mm	F (N)		
500	8,03	16,59	23,44
1000	4,68	9,61	6,72
1500	2,94	6,08	2,75

EURO MASTER PROFİL KÖŞE KONSOLLAR
EURO MASTER PROFILE CORNER BRACKETS

ESEM - 11 / ESEM - 12 / ESEM - 13 KÖŞE KONSOL
ESEM - 11 / ESEM - 12 / ESEM - 13 CORNER BRACKETS



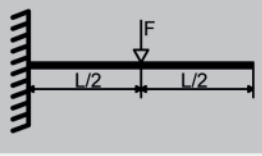


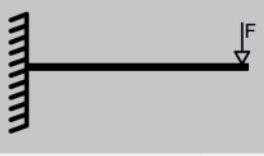
Profil Kesit Özellikleri / Cross-Sectional Properties of the Profile	
Elastik Kesit Modülü / Elastic Section Modulus **(Sy,max)(cm³)**	40,42
Elastik Kesit Modülü / Elastic Section Modulus **(Sz,max)(cm³)**	38,73
Atalet Momenti / Moment of Inertia **Iy: (cm⁴)**	193,63
Atalet Momenti / Moment of Inertia **Iz: (cm⁴)**	242,54
Malzeme / Material	355
Elastisite / Elasticity **(N/mm²)**	210.000

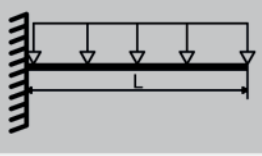
S355 PROFİL / PROFILE **S355 PLAKA** / PLATE HD

Kod / Code	**Boyut** / Size	**A**	**B**	**L**	**T**	**Ağırlık** / Weight
	mm x mm x mm	**mm**	**mm**	**mm**	**mm**	**kg/m**
ESEM-11	250 x 250 x 500	250	250	500	10	10,44
ESEM-12	250 x 250 x 1000	250	250	1000	10	16,3
ESEM-13	250 x 250 x 1500	250	250	1500	10	22,15

ESEM-11
ESEM-12
ESEM-13



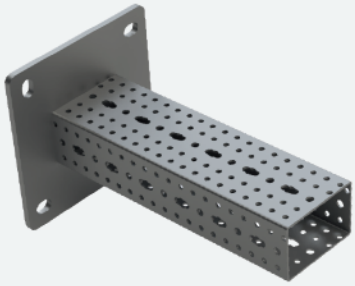


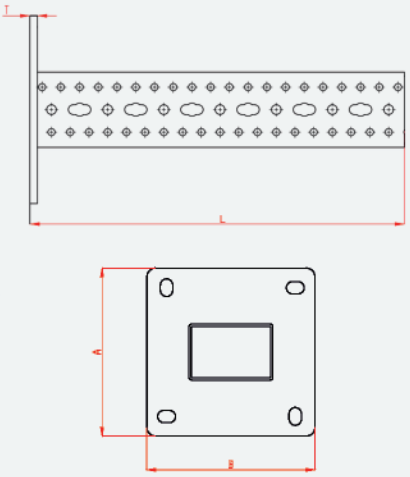


	EURO MASTER 100X120X4 KÖŞE KONSOL / EURO MASTER 100X120X4 CORNER BRACKETS		
mm	**F (N)**		
500	12,24	25,30	27,52
1000	6,68	13,80	9,81
1500	3,96	8,18	4,40

EURO MASTER PROFİL KÖŞE KONSOLLAR
EURO MASTER PROFILE CORNER BRACKETS

ESEM - 14 / ESEM - 15 / ESEM - 16 KÖŞE KONSOL
ESEM - 14 / ESEM - 15 / ESEM - 16 CORNER BRACKETS



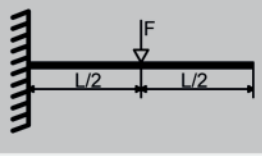


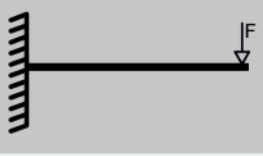
Profil Kesit Özellikleri / Cross-Sectional Properties of the Profile	
Elastik Kesit Modülü / Elastic Section Modulus **(Sy,max)(cm³)**	**54,11**
Elastik Kesit Modülü / Elastic Section Modulus **(Sz,max)(cm³)**	**42,79**
Atalet Momenti / Moment of Inertia **Iy: (cm⁴)**	**213,97**
Atalet Momenti / Moment of Inertia **Iz: (cm⁴)**	**405,82**
Malzeme / Material	**355**
Elastisite / Elasticity **(N/mm²)**	**210.000**

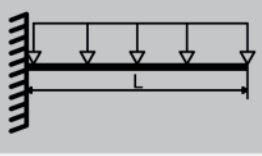
S355 PROFİL / PROFILE **S355 PLAKA** / PLATE HD

Kod / Code	**Boyut** / Size	**A**	**B**	**L**	**T**	**Ağırlık** / Weight
	mm x mm x mm	**mm**	**mm**	**mm**	**mm**	**kg/m**
ESEM-14	300 x 300 x 500	300	300	500	12	14,64
ESEM-15	300 x 300 x 1000	300	300	1000	12	21,22
ESEM-16	300 x 300 x 1500	300	300	1500	12	27,78

ESEM-14
ESEM-15
ESEM-16



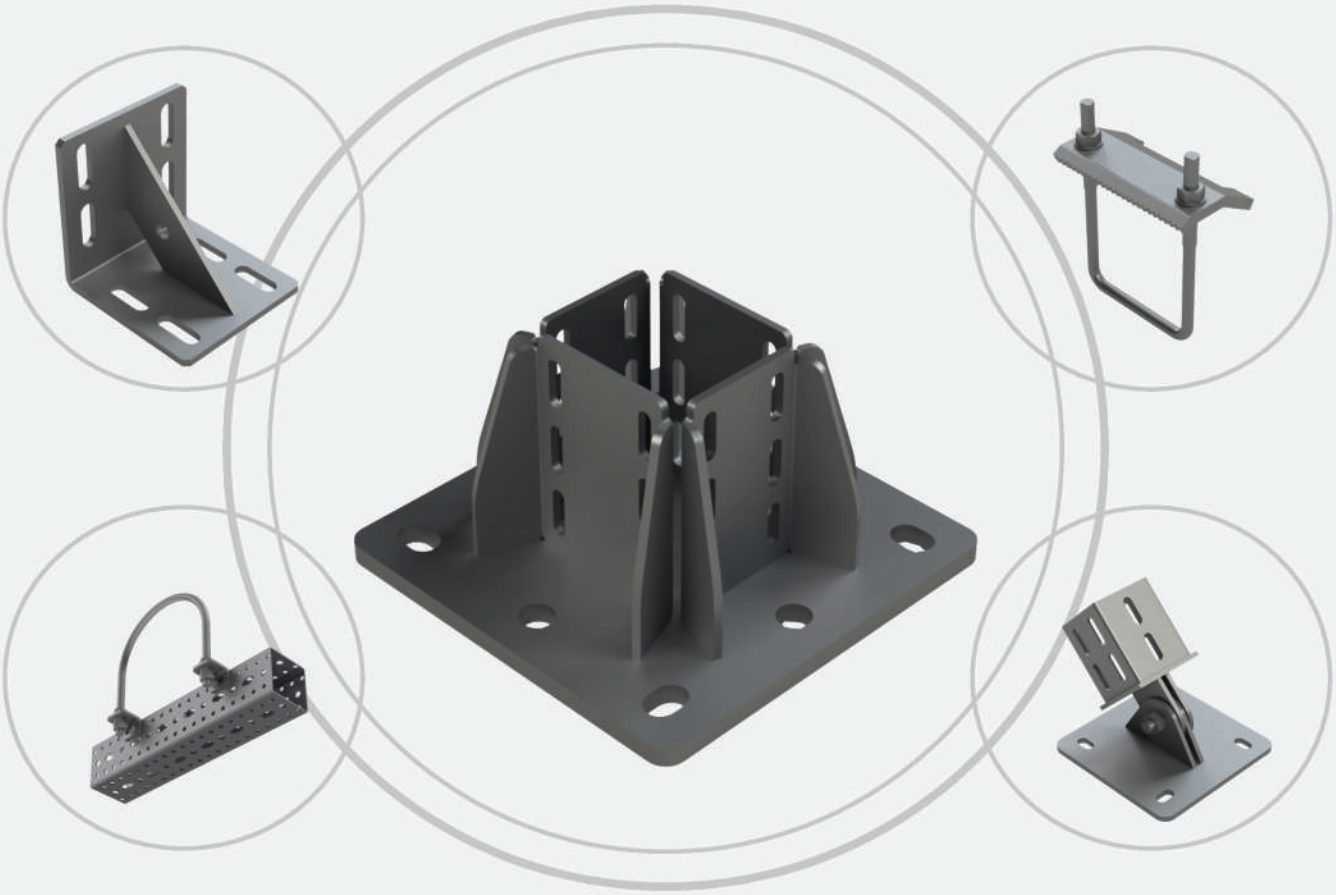




	EURO MASTER 100X150X4 KÖŞE KONSOL / EURO MASTER 100X150X4 CORNER BRACKETS		
mm	**F (N)**		
500	12,24	25,30	27,52
1000	6,68	13,80	9,81
1500	3,96	8,18	4,40

EUROMASTER BAĞLANTI ELEMANLARI

EURO MASTER FITTINGS



Fittings (Ek ve Bağlantı Elemanları), ağır hizmet tipi kablo güzergâhlarında hat geçişlerinin, yön değişimlerinin ve branşmanların güvenli şekilde oluşturulması için kullanılan modüler sistem bileşenleridir. Optimize edilmiş gövde geometrisi sayesinde kabloların bükülme yarıçapını koruyarak ezilme ve aşınmalara karşı yüksek mekanik koruma sunar. Elektrogalvaniz, sıcak daldırma ve üstün çinko-magnezyum kaplamalarıyla korozyona karşı olağanüstü direnç gösterirken, cıvatalı pratik tasarımı sahada kaynak gerektirmeden hızlı montaj imkânı tanır. Ağır kablo yüklerinde süreklilik sağlayarak sistem güvenliğini artırır, montaj ve bakım süreçlerinde pratiklik ve esneklik sağlar.

Fittings and connection components are modular structural elements designed for the safe execution of direction changes, route transitions, and branch-offs in heavy-duty cable management systems. Thanks to their optimized geometry, they preserve the proper cable bending radius and deliver high mechanical protection against friction and insulation damage. While their electro-galvanized, hot-dip galvanized, and advanced zinc-magnesium coatings provide exceptional corrosion resistance, the fully bolted design enables fast, weld-free modular assembly on site. By maintaining continuous structural integrity under heavy cable loads, they maximize overall system safety and bring long-term flexibility to maintenance and expansion workflows.

ESTETİK
AESTHETICS

İMALAT HIZI
MANUFACTURING SPEED

MÜHENDİSLİK DESTEĞİ
ENGINEERING SUPPORT

MALİYET
COST

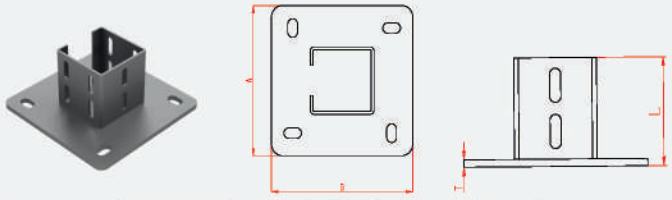
HD **Sıcak Daldırma Galvaniz EN 1461**
Hot-Dip Galvanized EN 1461

ZM **ZM, ZM310 – C3 Dış Mekan | EN 10025 ASTM A1046**
ZM, ZM310-for C3 outdoor use | EN 10025 ASTM A1046

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

TAVAN TABAN AYAKLARI
CEILING AND FLOOR POST BASES

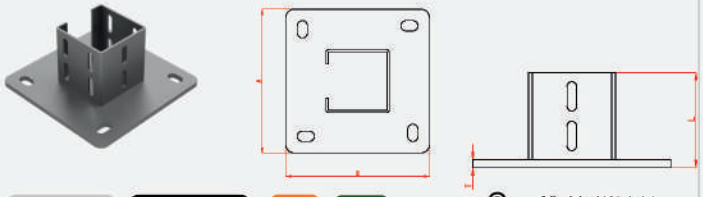
ESEM - 17



EN 10025 | STD S355 | HD | E

Ağırlık / Weight
3,32 (Kg/pcs)

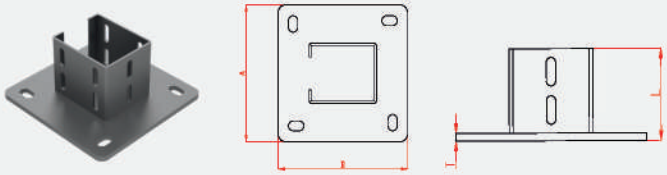
ESEM - 18



EN 10025 | STD S355 | HD | E

Ağırlık / Weight
5,85 (Kg/pcs)

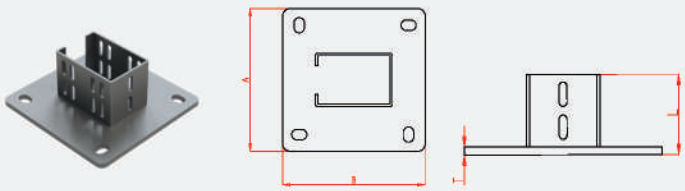
ESEM - 19



EN 10025 | STD S355 | HD

Ağırlık / Weight
5,99 (Kg/pcs)

ESEM - 20



EN 10025 | STD S355 | HD

Ağırlık / Weight
9,94 (Kg/pcs)

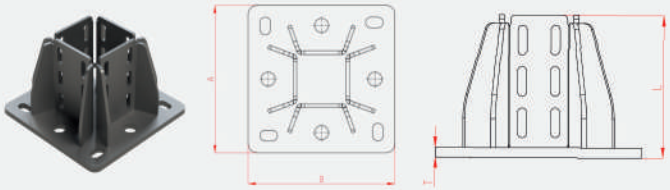


Kod / Code	Boyut / Size	A	B	L	T	Ağırlık / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-17	200 x 200 x 8	200	200	118	8	3,32
ESEM-18	250 x 250 x 10	250	250	120	10	5,85
ESEM-19	250 x 250 x 10	250	250	120	10	5,99
ESEM-20	300 x 300 x 12	300	300	122	12	9,94

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

TAKVİYELİ TAVAN TABAN AYAKLARI
REINFORCED CEILING AND FLOOR POST BASES

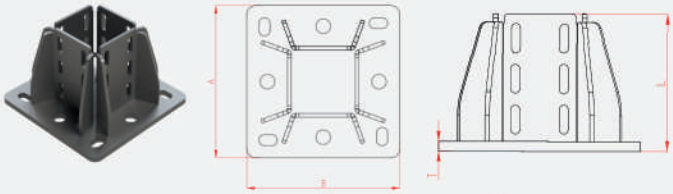
ESEM - 21



EN 10025 | STD S355 | HD

KG Ağırlık / Weight 9,50 (Kg/pcs)

ESEM - 22

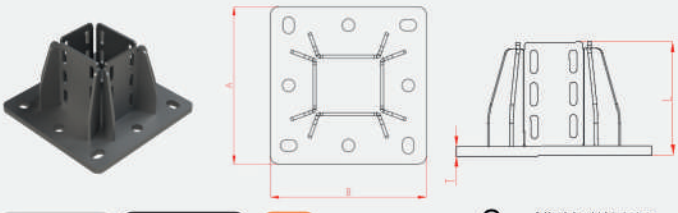


EN 10025 | STD S355 | HD

KG Ağırlık / Weight 11,25 (Kg/pcs)



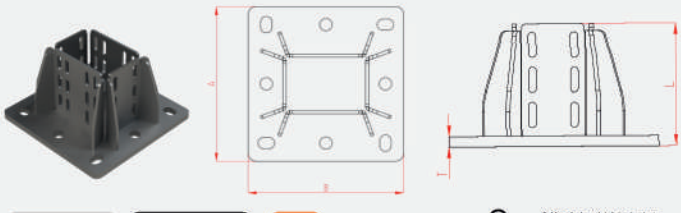
ESEM - 23



EN 10025 | STD S355 | HD

KG Ağırlık / Weight 14,96 (Kg/pcs)

ESEM - 24



EN 10025 | STD S355 | HD

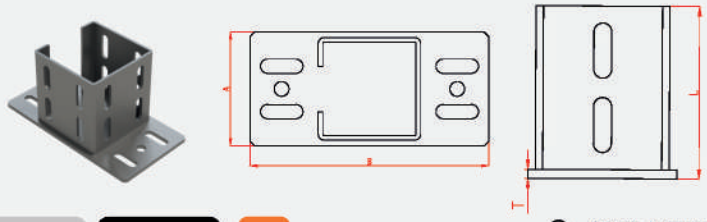
KG Ağırlık / Weight 15,20 (Kg/pcs)

Kod / Code	Boyut / Size	A	B	L	T	Ağırlık / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-21	200 x 200 x 8	250	250	172	12	9,5
ESEM-22	250 x 250 x 10	250	250	169	12	11,25
ESEM-23	250 x 250 x 10	300	300	175	15	14,96
ESEM-24	300 x 300 x 12	300	300	175	15	15,2

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

KONSOL BAĞLANTI BAŞLIĞI
BRACKET CONNECTİON HEAD

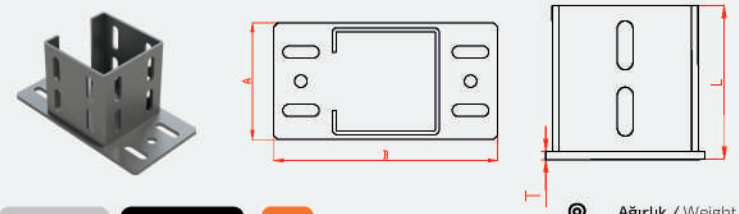
ESEM - 25



EN 10025 | STD S355 | HD

Ağırlık / Weight
3,32 (Kg/pcs)

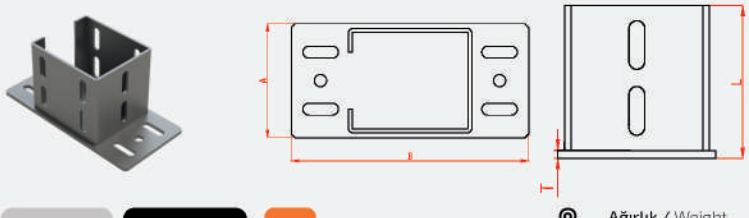
ESEM - 26



EN 10025 | STD S355 | HD

Ağırlık / Weight
5,99 (Kg/pcs)

ESEM - 27



EN 10025 | STD S355 | HD

Ağırlık / Weight
9,94 (Kg/pcs)

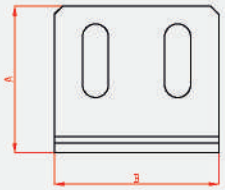


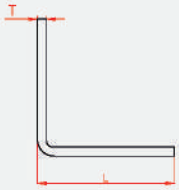
Kod / Code	Boyut / Size	A	B	L	T	Ağırlık / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-25	100 x 210 x 6	100	210	116	6	1,79
ESEM-26	120 x 230 x 6	120	230	116	6	2,31
ESEM-27	120 x 250 x 6	120	250	116	6	2,56

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

KÖŞE BAĞLANTI PARÇASI
ANGLE CONNECTOR

ESEM - 28

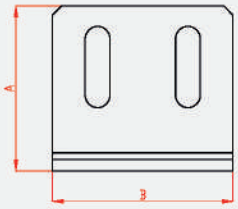


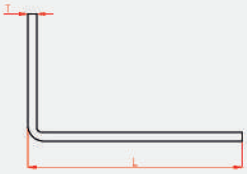
EN 10025 | STD S355 | HD | ZM

KG **Ağırlık** / Weight
0,37 (Kg/pcs)



ESEM - 29

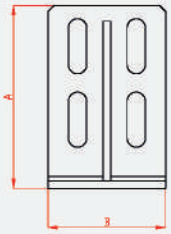


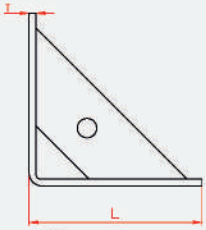
EN 10025 | STD S355 | HD | ZM

KG **Ağırlık** / Weight
0,50 (Kg/pcs)



ESEM - 30



EN 10025 | STD S355 | HD

KG **Ağırlık** / Weight
0,81 (Kg/pcs)

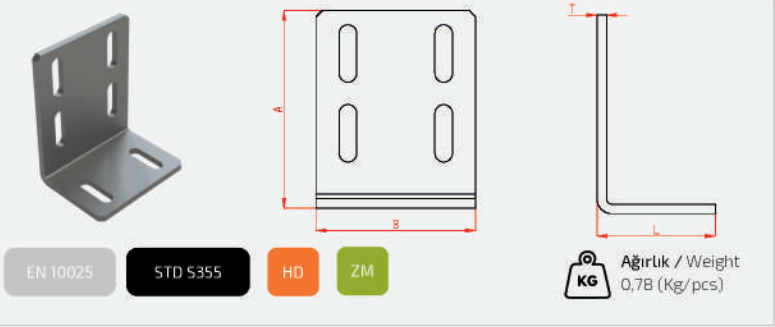


Kod / Code	**Boyut** / Size	**A**	**B**	**L**	**T**	**Ağırlık** / Weight
	mm x mm x mm	**mm**	**mm**	**mm**	**mm**	**kg/m**
ESEM-28	74,5 x 80 x 5	74,5	80	74,5	5	0,37
ESEM-29	73 x 80 x 5	73	80	123	5	0,5
ESEM-30	124,5 x 80 x 5	124,5	80	124,5	5	0,81

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

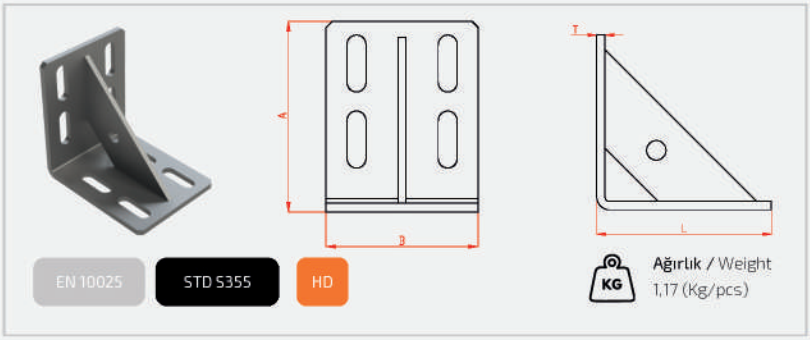
KÖŞE BAĞLANTI PARÇASI
ANGLE CONNECTOR

ESEM - 31



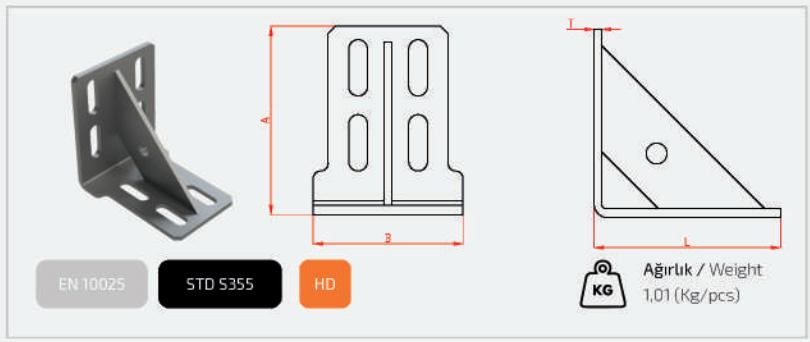


ESEM - 32





ESEM - 33





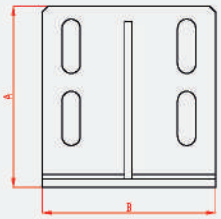
Kod / Code	Boyut / Size	A	B	L	T	Ağırlık / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-31	124 x 100 x 6	124	100	74	6	0,78
ESEM-32	125,5 x 100 x 6	125,5	100	125,5	6	1,17
ESEM-33	125,5 x 100 x 5	125,5	100	124,5	5	1,01

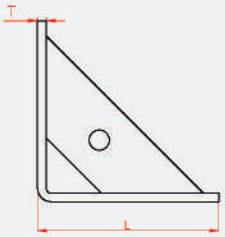
EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

KÖŞE BAĞLANTI PARÇASI
ANGLE CONNECTOR

ESEM - 34







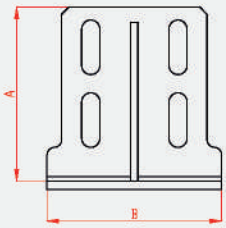
EN 10025 | STD S355 | HD

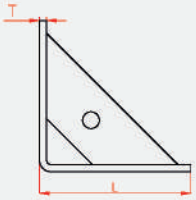
Ağırlık / Weight
2,60 (Kg/pcs)



ESEM - 35







EN 10025 | STD S355 | HD

Ağırlık / Weight
1,31 (Kg/pcs)

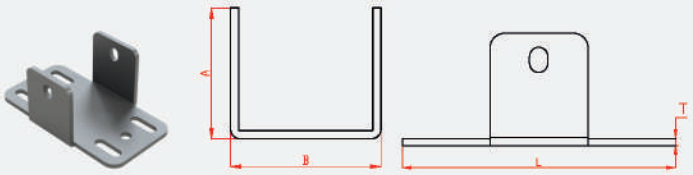


Kod / Code	**Boyut** / Size	**A**	**B**	**L**	**T**	**Ağırlık** / Weight
	mm x mm x mm	**mm**	**mm**	**mm**	**mm**	**kg/m**
ESEM-34	125,5 x 125,5 x 6	125,5	120	125,5	6	2,6
ESEM-35	125,5 x 125,5 x 6	125,5	120	125,5	6	1,31

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

MAFSAL AYAK
SWIVEL BASE PLATE

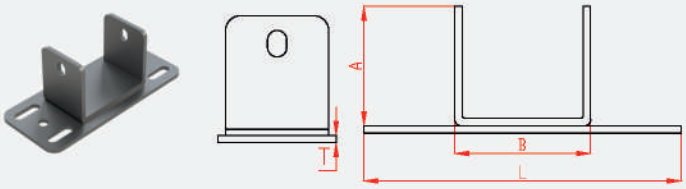
ESEM - 38



EN 10025 | STD S355 | HD

KG Ağırlık / Weight
0,94 (Kg/pcs)

ESEM - 39



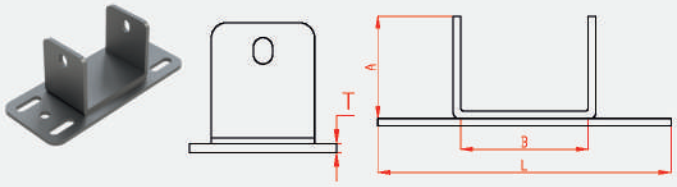
EN 10025 | STD S355 | HD

KG Ağırlık / Weight
1,23 (Kg/pcs)





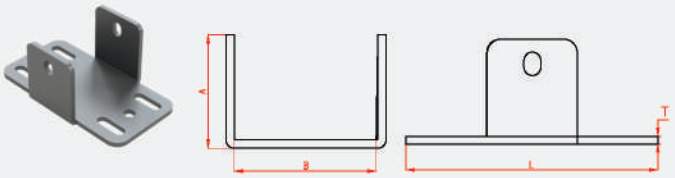
ESEM - 42



EN 10025 | STD S355 | HD

KG Ağırlık / Weight
1,85(Kg/pcs)

ESEM - 43



EN 10025 | STD S355 | HD

KG Ağırlık / Weight
1,32 (Kg/pcs)

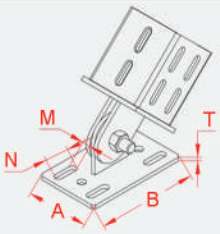
Kod / Code	Boyut / Size	A	B	mxn	T	Ağırlık / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-38	80 x 92 x 5	80	92	195	5	0,94
ESEM-39	81 x 92 x 5	81	92	215	5	1,23
ESEM-42	82 x 102 x 6	82	102	235	6	1,85
ESEM-43	81 x 102 x 6	81	102	195	6	1,32

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

MAFSAL AYAK
SWIVEL BASE PLATE

ESEM - 36





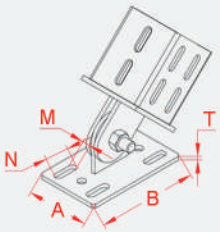
EN 10025 | STD S355 | HD

Ağırlık / Weight
2,79 (Kg/pcs)



ESEM - 40





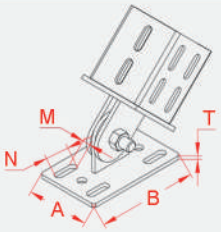
EN 10025 | STD S355 | HD

Ağırlık / Weight
3,21 (Kg/pcs)



ESEM - 44





EN 10025 | STD S355 | HD

Ağırlık / Weight
3,46 (Kg/pcs)

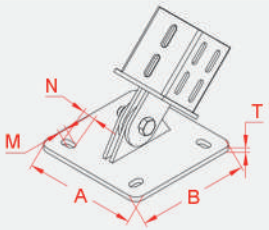
Kod / Code	**Boyut** / Size	**A**	**B**	**mxn**	**T**	**Ağırlık** / Weight
	mm x mm x mm	**mm**	**mm**	**mm**	**mm**	**kg/m**
ESEM-36	100 x 161 x 6	100	161	12,5x37,5	6	2,79
ESEM-40	100 x 161 x 6	100	161	12,5x37,5	6	3,21
ESEM-44	100 x 161 x 6	100	161	12,5x37,5	6	3,46

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

MAFSAL AYAK
SWIVEL BASE PLATE

ESEM - 37





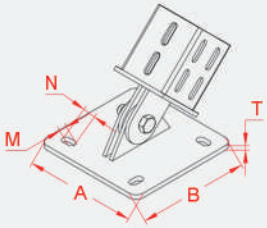
EN 10025 | STD S355 | HD

Ağırlık / Weight
4,83 (Kg/pcs)



ESEM - 41





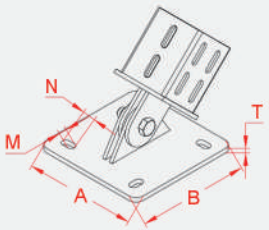
EN 10025 | STD S355 | HD

Ağırlık / Weight
7,44 (Kg/pcs)



ESEM - 45





EN 10025 | STD S355 | HD

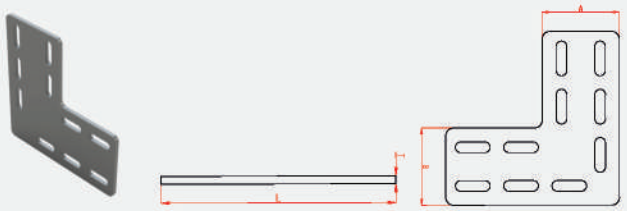
Ağırlık / Weight
7,69 (Kg/pcs)

Kod / Code	**Boyut** / Size	A	B	mxn	T	**Ağırlık** / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-37	200 x 200 x 8	200	200	14x25	8	4,83
ESEM-41	250 x 200 x 10	250	250	18x30	10	7,44
ESEM-45	250 x 200 x 10	250	250	18x30	10	7,69

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

L BAĞLANTI PARÇASI
90° ANGLE BRACKET

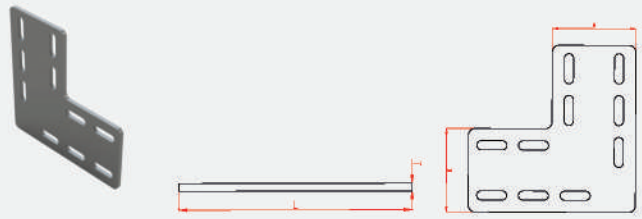
ESEM - 46



EN 10025 | STD S355 | HD | ZM

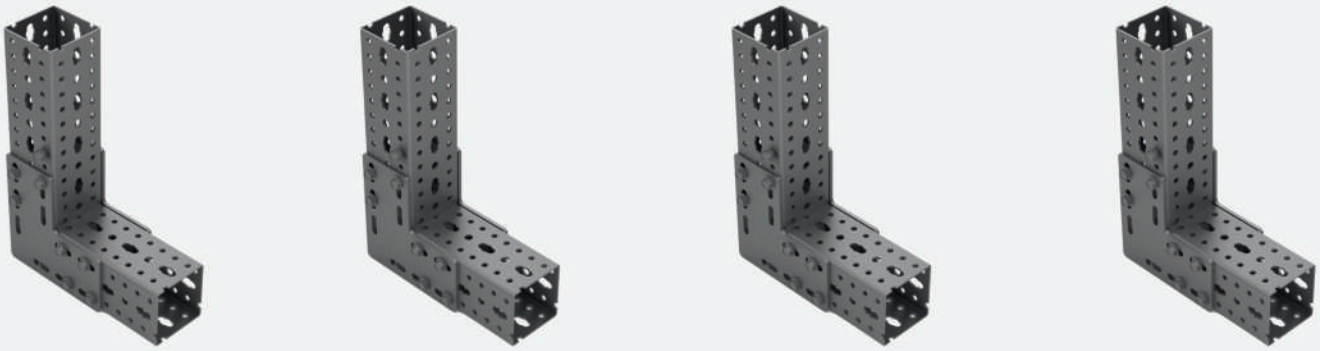
KG **Ağırlık** / Weight
0,87 (Kg/pcs)

ESEM - 47

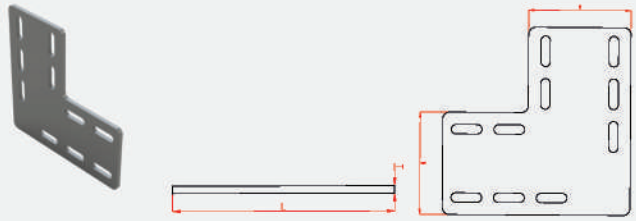


EN 10025 | STD S355 | HD | ZM

KG **Ağırlık** / Weight
1,23 (Kg/pcs)



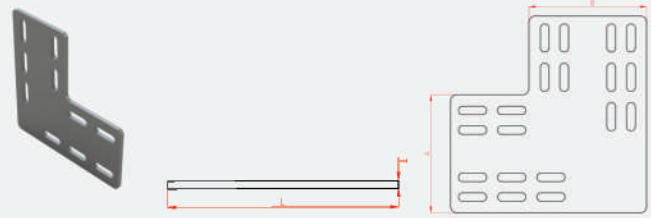
ESEM - 48



EN 10025 | STD S355 | HD | ZM

KG **Ağırlık** / Weight
2,17 (Kg/pcs)

ESEM - 49



EN 10025 | STD S355 | HD | ZM

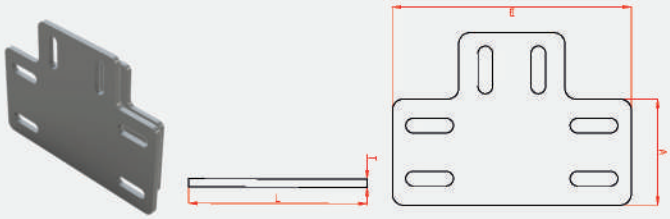
KG **Ağırlık** / Weight
5,65 (Kg/pcs)

Kod / Code	**Boyut** / Size	**A**	**B**	**L**	**T**	**Ağırlık** / Weight
	mm x mm x mm	**mm**	**mm**	**mm**	**mm**	**kg/m**
ESEM-46	80 x 80 x 6	80	80	180	6	0,87
ESEM-47	100 x 100 x 6	100	100	200	6	1,23
ESEM-48	120 x 120 x 8	120	120	220	8	2,17
ESEM-49	150 x 150 x 8	150	150	250	8	5,65

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

T BAĞLANTI PARÇASI
T-CONNECTOR

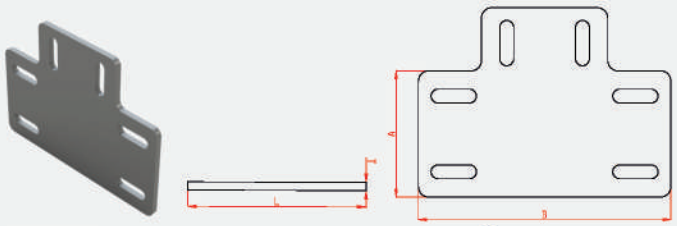
ESEM - 54



EN 10025 | STD S355 | HD | ZM

KG Ağırlık / Weight 0,75 (Kg/pcs)

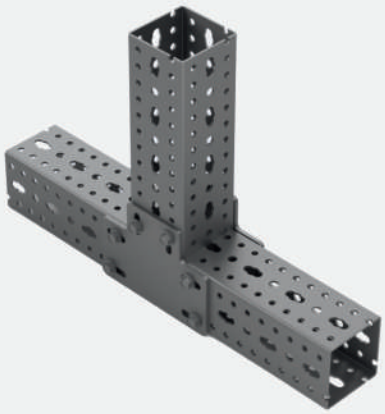
ESEM - 55



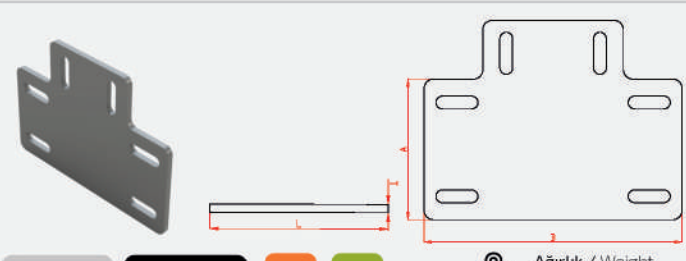
EN 10025 | STD S355 | HD | ZM

KG Ağırlık / Weight 1,07 (Kg/pcs)





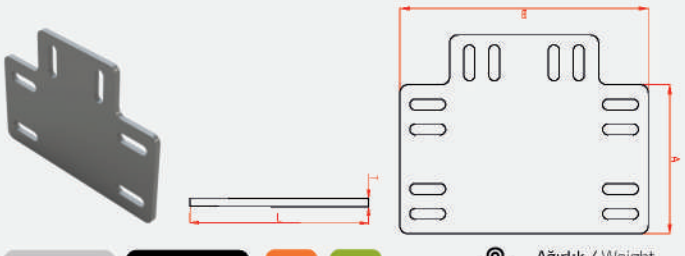
ESEM - 56



EN 10025 | STD S355 | HD | ZM

KG Ağırlık / Weight 1,89 (Kg/pcs)

ESEM - 57



EN 10025 | STD S355 | HD | ZM

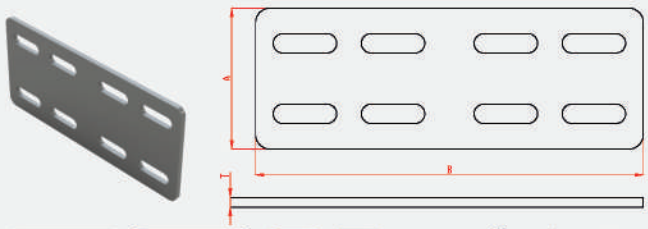
KG Ağırlık / Weight 2,54 (Kg/pcs)

Kod / Code	Boyut / Size	A	B	L	T	Ağırlık / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-54	80 x 180 x 6	80	180	130	6	0,75
ESEM-55	100 x 200 x 6	100	200	150	6	1,07
ESEM-56	120 x 220 x 8	120	220	170	8	1,89
ESEM-57	150 x 250 x 8	150	250	200	8	2,54

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

BİRLEŞTİRME PARÇASI
SPLICE PLATE

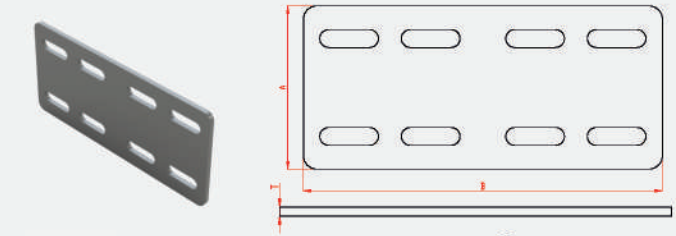
ESEM - 58



EN 10025 | STD S355 | HD | ZM

Ağırlık / Weight
0,57 (Kg/pcs)

ESEM - 59



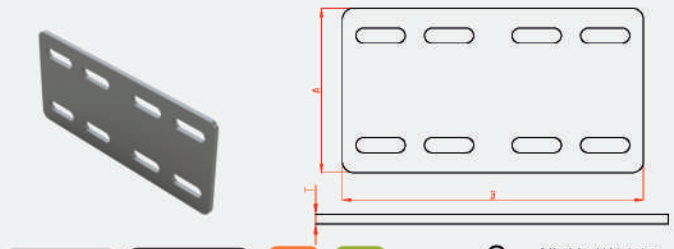
EN 10025 | STD S355 | HD | ZM

Ağırlık / Weight
0,74 (Kg/pcs)





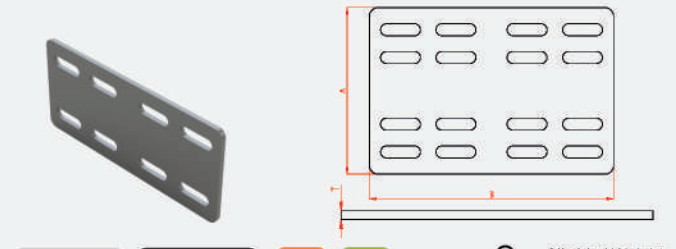
ESEM - 60



EN 10025 | STD S355 | HD | ZM

Ağırlık / Weight
1,10 (Kg/pcs)

ESEM - 61



EN 10025 | STD S355 | HD | ZM

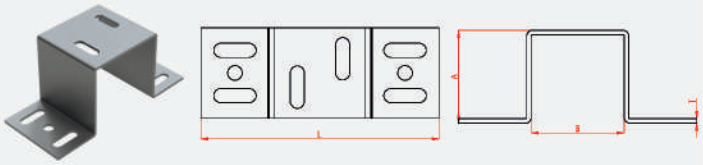
Ağırlık / Weight
1,27 (Kg/pcs)

Kod / Code	**Boyut** / Size	**A**	**B**	**T**	**Ağırlık** / Weight
	mm x mm x mm	**mm**	**mm**	**mm**	**kg/m**
ESEM-58	80 x 220 x 5	80	220	5	0,75
ESEM-59	100 x 120 x 5	100	120	5	0,74
ESEM-60	120 x 220 x 6	120	220	6	1,10
ESEM-61	150 x 220 x 6	150	220	6	1,27

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

U ATKI
U-TRAVERSE

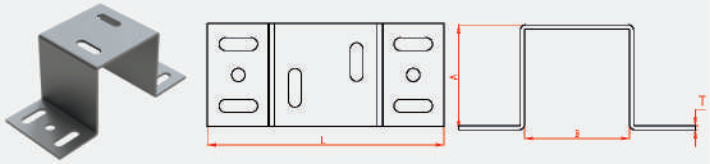
ESEM - 68



EN 10025 | STD S355 | HD | ZM

KG Ağırlık / Weight 0,81 (Kg/pcs)

ESEM - 69



EN 10025 | STD S355 | HD | ZM

KG Ağırlık / Weight 1,23 (Kg/pcs)

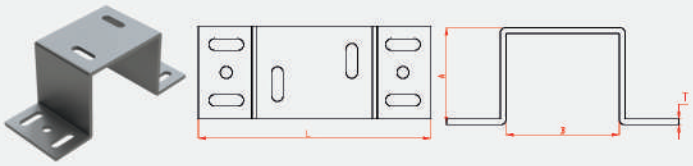








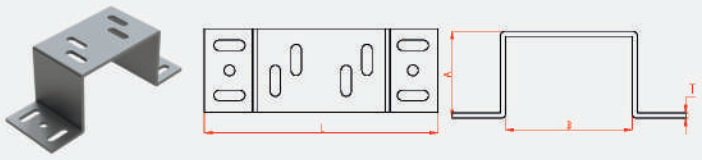
ESEM - 70



EN 10025 | STD S355 | HD | ZM

KG Ağırlık / Weight 1,94 (Kg/pcs)

ESEM - 71



EN 10025 | STD S355 | HD | ZM

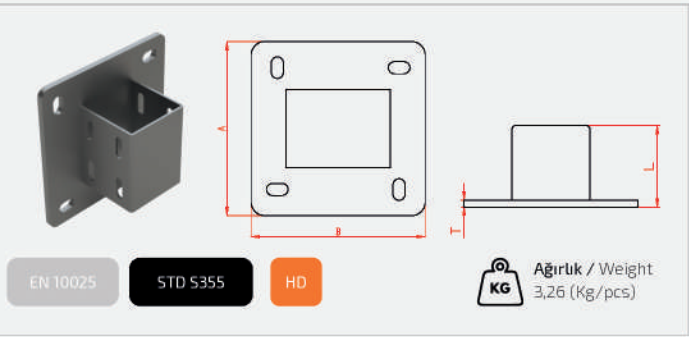
KG Ağırlık / Weight 2,04 (Kg/pcs)

Kod / Code	Boyut / Size	A	B	L	T	Ağırlık / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-68	82 x 82 x 4	82	82	210	4	0,81
ESEM-69	102 x 102 x 4	100	100	200	4	1,23
ESEM-70	104 x 122 x 6	120	120	220	6	1,94
ESEM-71	104 x 125 x 6	150	150	250	6	2,04

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

U BAĞLANTI BAZASI
U BASE PLATE

ESEM - 72

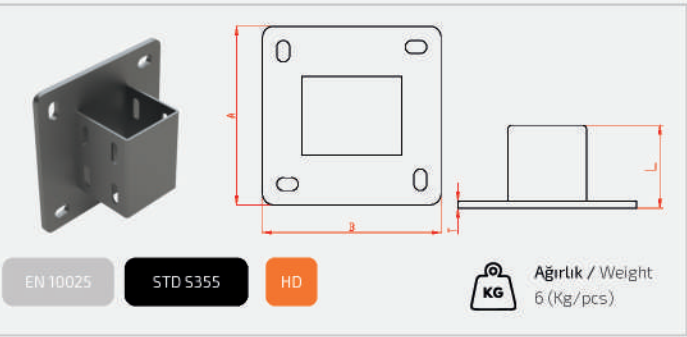


EN 10025 | STD S355 | HD

Ağırlık / Weight
3,26 (Kg/pcs)



ESEM - 73

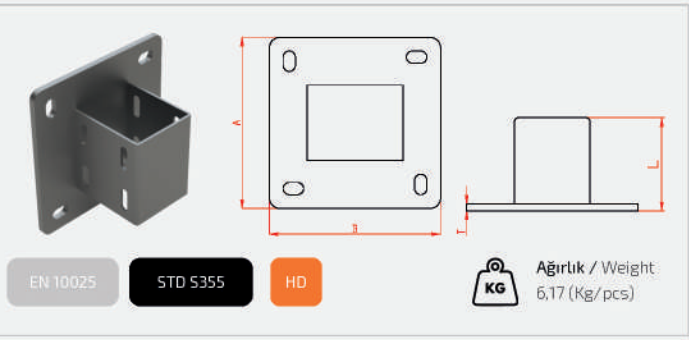


EN 10025 | STD S355 | HD

Ağırlık / Weight
6 (Kg/pcs)



ESEM - 74



EN 10025 | STD S355 | HD

Ağırlık / Weight
6,17 (Kg/pcs)

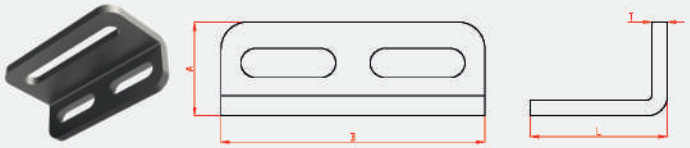


Kod / Code	**Boyut** / Size	**A**	**B**	**L**	**T**	**Ağırlık** / Weight
	mm x mm x mm	**mm**	**mm**	**mm**	**mm**	**kg/m**
ESEM-72	100 x 161 x 6	200	200	94	8	3,26
ESEM-73	100 x 161 x 6	250	250	116	10	6
ESEM-74	100 x 161 x 6	250	250	132	10	6,17

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

U BOLT BAĞLANTI ELEMANI
U-BOLT CONNECTION ELEMENT

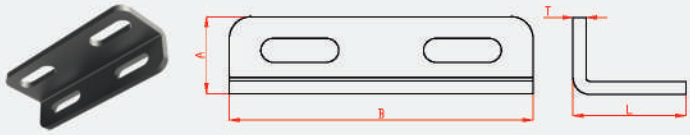
ESEM - 75



EN 10025 | STD S355 | HD | ZM

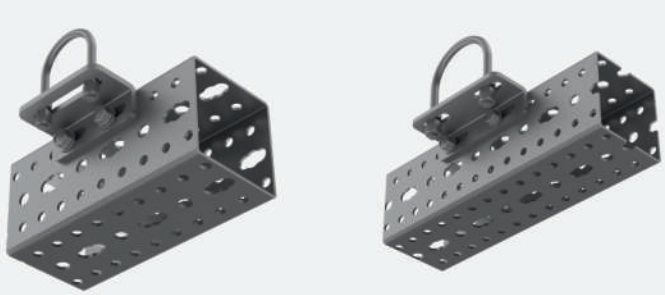
KG Ağırlık / Weight 0,29 (Kg/pcs)

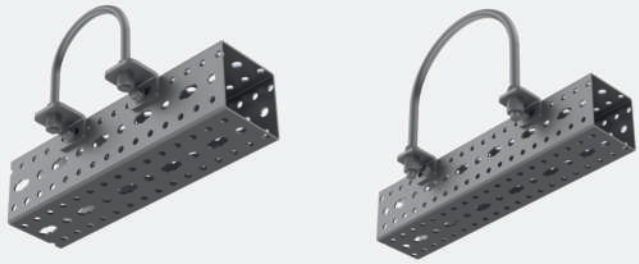
ESEM - 76



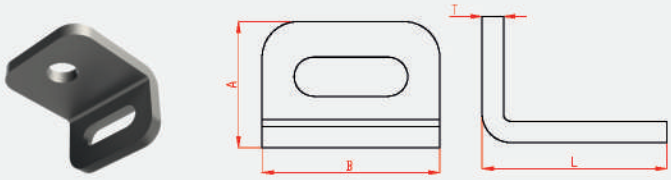
EN 10025 | STD S355 | HD | ZM

KG Ağırlık / Weight 0,43 (Kg/pcs)





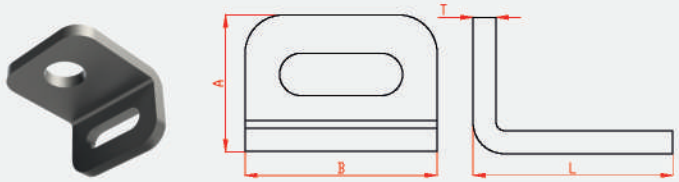
ESEM - 77



EN 10025 | STD S355 | HD | ZM

KG Ağırlık / Weight 0,16 (Kg/pcs)

ESEM - 78



EN 10025 | STD S355 | HD | ZM

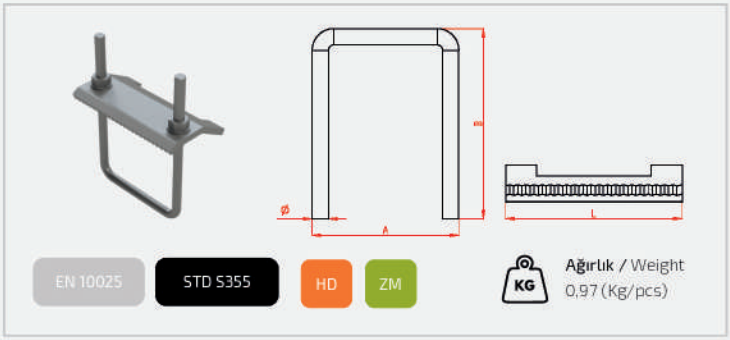
KG Ağırlık / Weight 0,15 (Kg/pcs)

Kod / Code	Boyut / Size	A	B	L	T	Ağırlık / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-75	35,5 x 100 x 6	35,5	100	52	6	0,29
ESEM-76	35,5 x 140 x 6	35,5	140	52	6	0,43
ESEM-77	35,5 x 50 x 6	35,5	50	52	6	0,16
ESEM-78	35,5 x 50 x 6	35,5	50	52	6	0,15

EURO MASTER BAĞLANTI ELEMANLARI
EURO MASTER FITTINGS

KARE BOLT ÇELİK BAĞLANTI ELEMANI
SQUARE U-BOLT STEEL CONNECTION ELEMENT

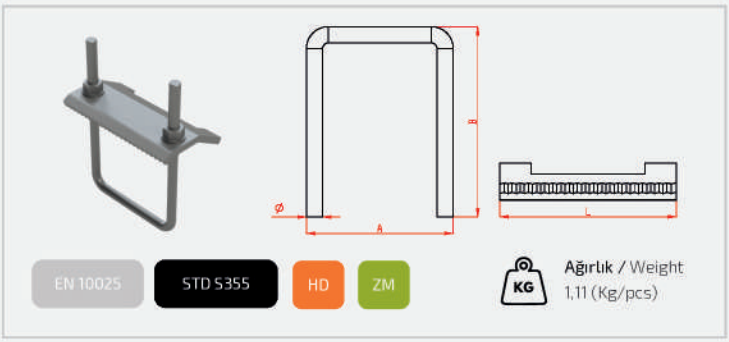
ESEM - 79



EN 10025 | STD S355 | HD | ZM

KG Ağırlık / Weight 0,97 (Kg/pcs)

ESEM - 80

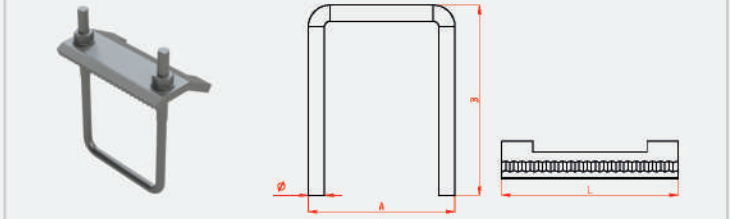


EN 10025 | STD S355 | HD | ZM

KG Ağırlık / Weight 1,11 (Kg/pcs)



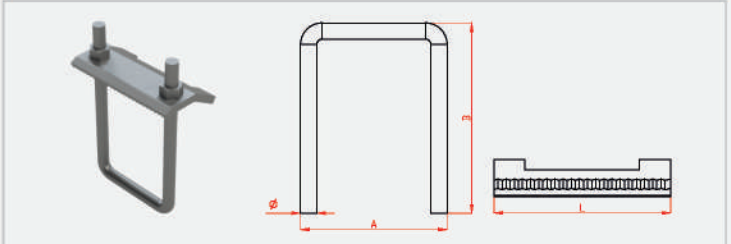
ESEM - 81



EN 10025 | STD S355 | HD | ZM

KG Ağırlık / Weight 1,11 (Kg/pcs)

ESEM - 82



EN 10025 | STD S355 | HD | ZM

KG Ağırlık / Weight 1,85 (Kg/pcs)

Kod / Code	Boyut / Size	A	B	L	T	Ağırlık / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-79	108 x 140 x Ø12	108	140	130	Ø12	0,97
ESEM-80	130 x 192,5 x Ø12	130	192,3	150	Ø12	1,11
ESEM-81	130 x 192,3 x Ø12	130	192,3	150	Ø12	1,11
ESEM-82	136 x 230 x Ø16	136	230	160	Ø16	1,85

EURO PRIME G PROFİL BAĞLANTI ELEMANLARI
EURO PRIME G PROFILE FITTINGS

G BAĞLANTI PARÇASI
G PROFILE CONNECTOR

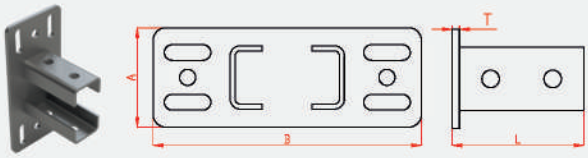
ESEM-62



EN 10025 | STD S355 | HD

Ağırlık / Weight
0.89 (Kg/pcs)

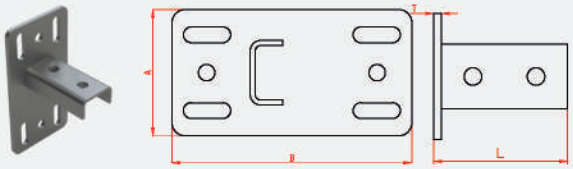
ESEM-63



EN 10025 | STD S355 | HD

Ağırlık / Weight
1,26 (Kg/pcs)

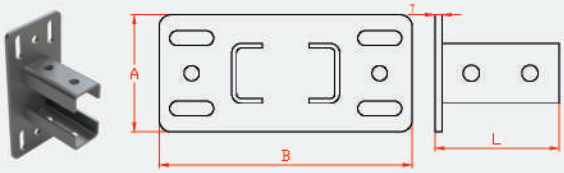
ESEM-64



EN 10025 | STD S355 | HD

Ağırlık / Weight
1,06 (Kg/pcs)

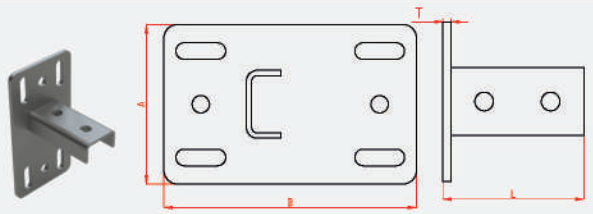
ESEM-65



EN 10025 | STD S355 | HD

Ağırlık / Weight
1,46 (Kg/pcs)

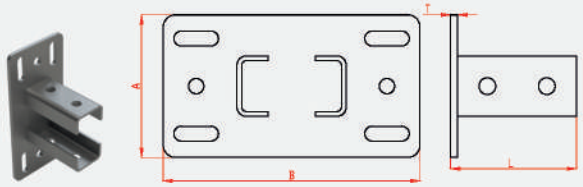
ESEM-66



EN 10025 | STD S355 | HD

Ağırlık / Weight
1,24 (Kg/pcs)

ESEM-67



EN 10025 | STD S355 | HD

Ağırlık / Weight
1,66 (Kg/pcs)

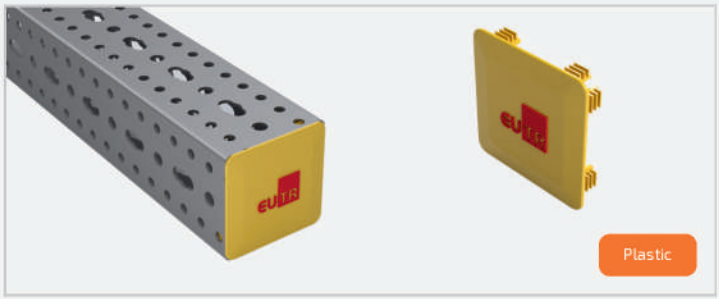
Kod / Code	Boyut / Size	A	B	L	T	Ağırlık / Weight
	mm x mm x mm	mm	mm	mm	mm	kg/m
ESEM-62	80 x 190 x 6	80	190	106	6	0,89
ESEM-63	80 x 190 x 6	80	190	106	6	1,26
ESEM-64	100 x 190 x 6	100	190	106	6	1,06
ESEM-65	150 x 150 x 6	100	216	106	6	1,46
ESEM-66	120 x 190 x 6	120	190	106	6	1,24
ESEM-67	120 x 216 x 6	120	216	106	6	1,66

KORUYUCU KAPAK
END CAP

ESEM - 01 / 80*80*4 MM KUTU PROFİL KORUYUCU KAPAK
ESEM - 01 / 80*80*4 MM SQUARE HOLLOW SECTION END CAP



ESEM - 02 / 100*100*4 MM KUTU PROFİL KORUYUCU KAPAK
ESEM - 02 / 100*100*4 MM SQUARE HOLLOW SECTION END CAP



ESEM - 03 / 100*120*4 MM KUTU PROFİL KORUYUCU KAPAK
ESEM - 03 / 100*120*4 MM SQUARE HOLLOW SECTION END CAP



ESEM - 04 / 100*150*4 MM KUTU PROFİL KORUYUCU KAPAK
ESEM - 04 / 100*150*4 MM SQUARE HOLLOW SECTION END CAP



AKILLI VİDA
SELF DRILLING SCREW

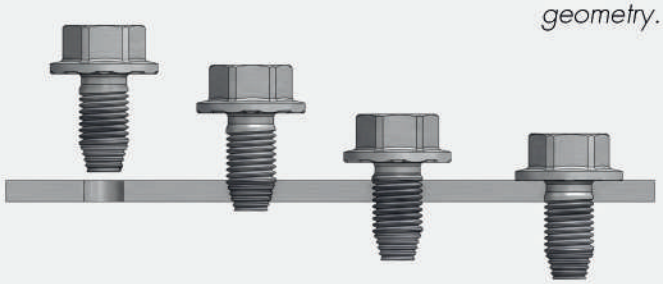


Boy/Length (m) : M10 - 20

EN 10025 | STD S355 | Steel

Özel geometrisi sayesinde önceden delinmiş yuvaya kendi dişini açarak güvenli ve pratik montaj sağlayan diş açıcı (kılavuzsuz) cıvatadır.

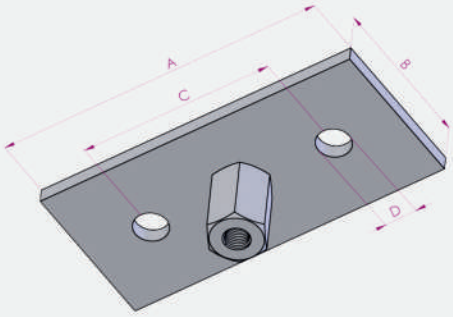
Thread-forming bolt that creates its own mating thread in pilot holes, ensuring fast installation and secure fastening thanks to its specialized geometry.



Cıvata flanşı sac yüzeyine temas ettikten sonra sıkma işlemi sonlandırılmalıdır. İlave bir sıkma işlemi yapılmalıdır.

Once the bolt flange contacts the sheet metal surface, stop the tightening process. Additional tightening must then be applied.

TAVAN PLAKASI
CEILING PLATE





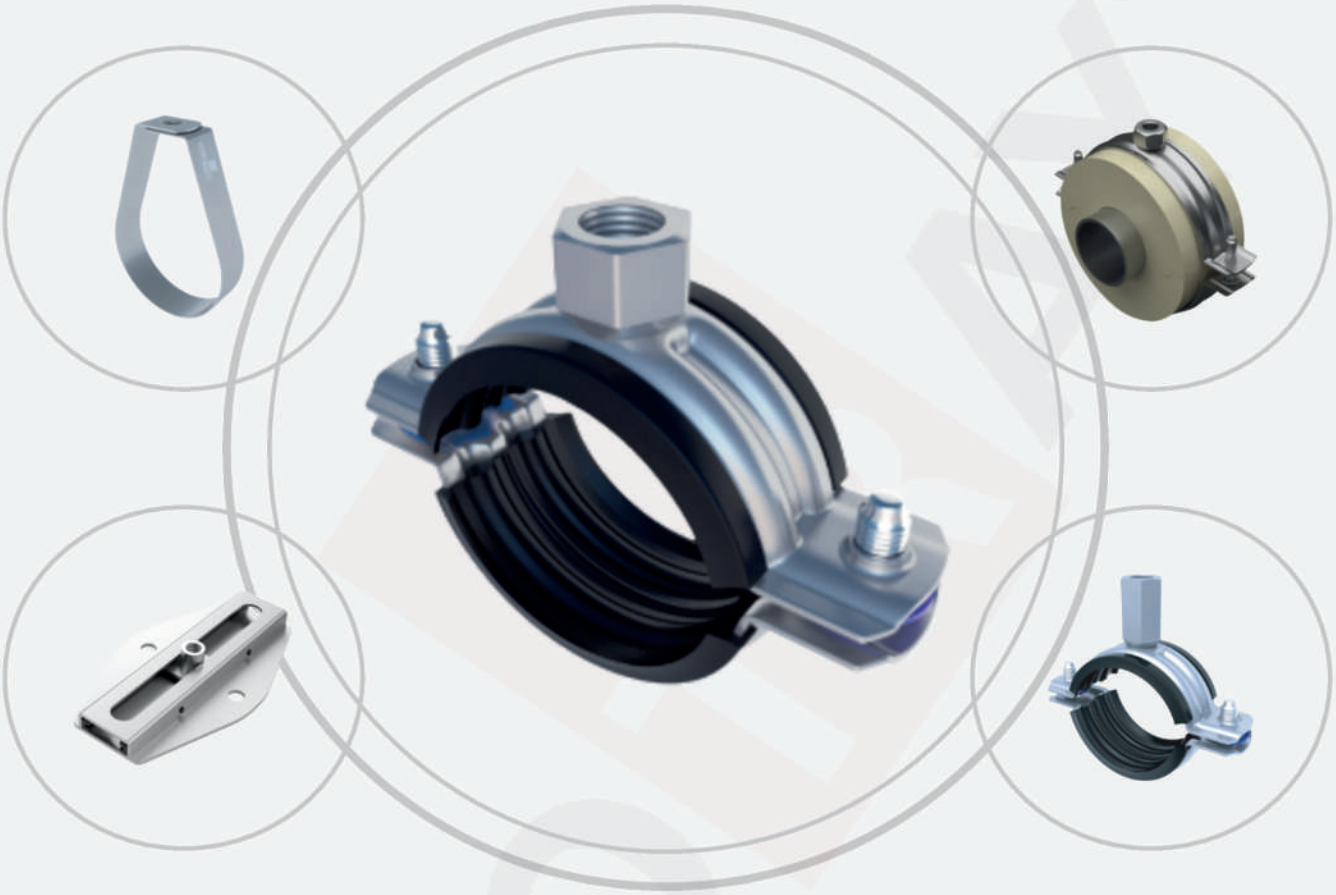
Kullanım (Servis) / Use (Service) : **Askı çubuğu veya destek elemanlarının kirişe, tavana ya da taşıyıcı profil kanallarına monte edilmesi için tasarlanmıştır.** / It is designed for mounting hanger rods or support elements to beams, ceilings, or support profile channels.

Mazleme Material	**Somun Ölçüsü** M/Nut Size	**A**	**B**	**C**	**D**	**T**	**Tavsiye Edilen Yük** Recom. Load	**Std. Kaplama** Std. Coating
	mm	mm	mm	mm	mm	mm	kN	
ÇELİK / STEEL	M10	110	50	65	11	4	2.9	E
ÇELİK / STEEL	M12	150	50	100	13	4	4.7	E
ÇELİK / STEEL	M16	150	50	100	18	6	8.3	E
ÇELİK / STEEL	M20	150	50	100	18	8	12.7	E
ÇELİK / STEEL	M24	200	75	125	18	20	21.6	E

EUROTRAY®

KELEPÇELER

PIPE CLAMPS



Boru askı kelepçeleri, mekanik tesisatlarda boru hatlarının güvenli ve düzenli şekilde taşınmasını sağlayan, farklı çaplara uyumlu ve kolay montaj imkânı sunan temel montaj elemanlarıdır; yoğuşma oluşan hatlarda kullanılan izolasyon takozları ile yüzeyde terleme ve ısı kayıplarının önüne geçilmesine katkı sağlar, kayar yatak uygulamalarıyla da boru hatlarının genleşme hareketlerini kontrollü şekilde karşılayarak uzun ömürlü ve güvenli kullanım sunar. Pipe support clamps are essential installation components used in mechanical systems to ensure that pipelines are carried safely and in an orderly manner, while offering compatibility with different pipe diameters and easy installation. Insulation blocks used on lines where condensation occurs help prevent surface sweating and reduce heat loss, while sliding support applications accommodate the expansion movements of pipelines in a controlled manner, providing long-lasting and safe use.

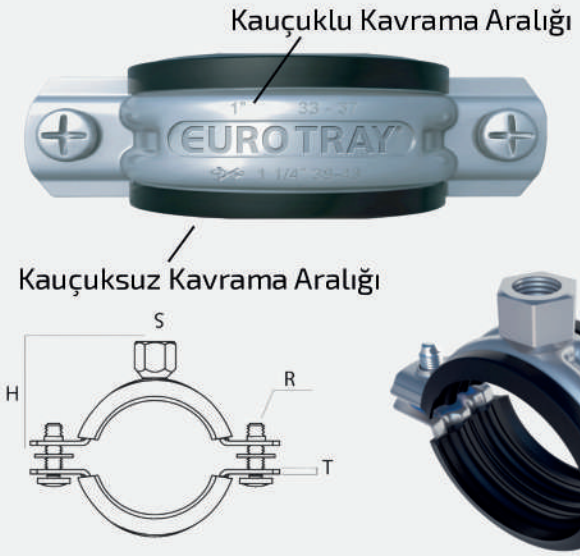
ESTETİK
AESTHETICS

İMALAT HIZI
MANUFACTURING SPEED

MÜHENDİSLİK DESTEĞİ
ENGINEERING SUPPORT

MALİYET
COST

KELEPÇELER
PIPE CLAMPS

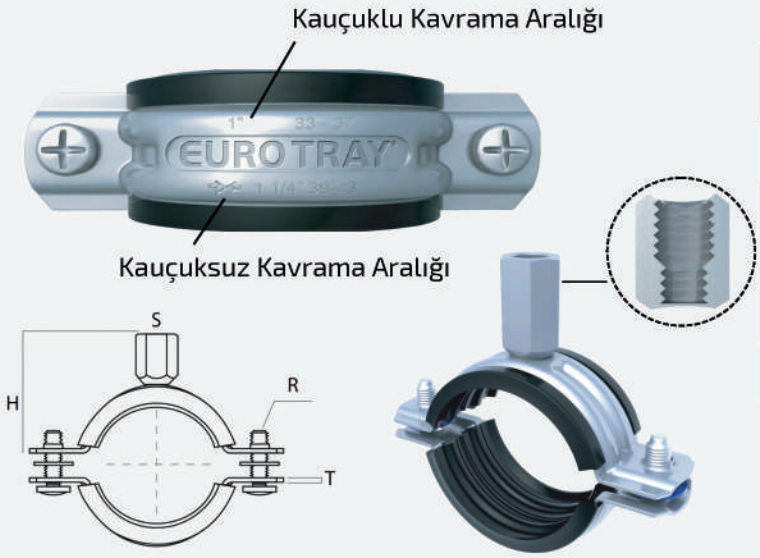


Ölçü (Dimensions)	Kopma Yükü (Breaking Load)	Tavsiye Edilen Yük (Recommended Load)
	(KN)	(KN)
1/4" - 1"	3.9	1.3
1 1/4" - 2"	4.8	1.6
3"- 4"	6.9	2.3
4 1/2" - 10"	7.8	2.6

SOMUNLU BORU KELEPÇESİ — PIPE CLAMP WITH NUT

Ürün Kodu (Product Code)	Boyutlar / Ölçüler (Dimensions)		Kalınlık X Genişlik (Thickness X Width)	Yan Vidalar (Side Screws)	Somun (Nut)	Kutu Başına Adet (Quantity Per Boxes)	Kutu Ağırlığı (Weight Per Box)
	(mm)	(inch)	TXB (mm)	R (mm)	S (mm)	Pcs/box	(kg)
EK 0015 SK	13 - 20	1/4 "	1,00 X 20	M5X15	M8	300	11.72
EK 0018 SK	17 - 23	3/8 "	1,00 X 20	M5X15	M8	300	12.01
EK 0020 SK	21 - 26	1/2 "	1,00 X 20	M5X15	M8	300	12.61
EK 0025 SK	26 - 30	3/4 "	1,00 X 20	M5X15	M8	200	9.20
EK 0032 SK	33 - 37	1 "	1,00 X 20	M5X15	M8	200	10.61
EK 0040 SK	40 - 46	1 1/4 "	1,20 X 20	M5X15	M8	100	6.51
EK 0048 SK	48 - 53	1 1/2 "	1,20 X 20	M5X15	M8	120	8.69
EK 0054 SK	53 - 59	53 - 59	1,20 X 20	M5X15	M8	120	8.82
EK 0056 SK	60 - 66	2 "	1,20 X 20	M5X15	M8	75	7.03
EK 0067 SK	67 - 77	67 - 77	1,50 X 25	M6X30	M10	75	7.45
EK 0075 SK	75 - 84	2 1/2 "	1,50 X 25	M6X30	M10	50	7.82
EK 0083 SK	83 - 93	83 - 93	1,50 X 20	M6X30	M10	40	7.31
EK 0086 SK	87 - 96	3 "	1,50 X 25	M6X30	M10	40	7.34
EK 0097 SK	94 - 104	3 1/2"	1,50 X 25	M6X30	M10	40	7.75
EK 0101 SK	109 - 119	4 "	1,50 X 25	M6X30	M10	40	8.78
EK 0123 SK	118 - 125	4 1/2 "	2,00 X 25	M6X30	M10	50	12.34
EK 0138 SK	135 - 146	5 "	2,00 X 25	M6X30	M10	25	7.91
EK 0160 SK	150 - 162	5 1/2 "	2,00 X 25	M6X30	M10	25	8.58
EK 0166 SK	158 - 169	6 "	2,00 X 25	M6X30	M10	25	8.91
EK 0195 SK	197 - 207	7 "	2,00 X 25	M6X30	M10	25	9.38
EK 0216 SK	216 - 224	8 "	2,00 X 25	M6X30	M10	20	9.59
EK 0270 SK	269 - 275	10 "	2,00 X 25	M6X30	M10	10	8.87

KELEPÇELER
PIPE CLAMPS

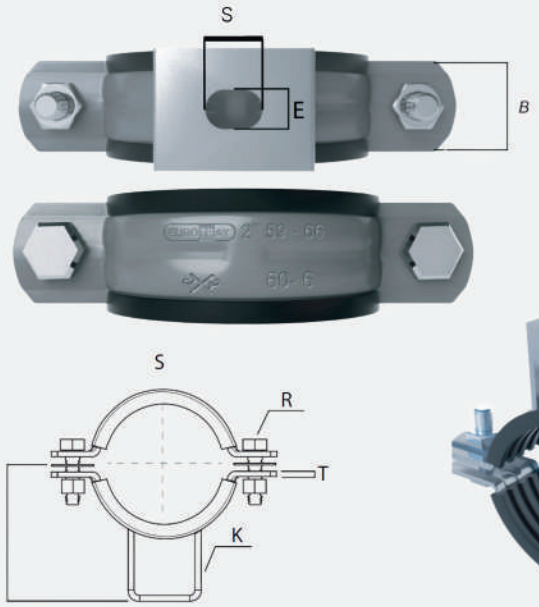


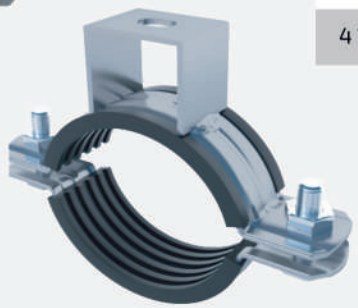
Ölçü (Dimensions)	Kopma Yükü (Breaking Load)	Tavsiye Edilen Yük (Recommended Load)
	(KN)	(KN)
1/4" - 1"	3.9	1.3
1 1/4" - 2"	4.8	1.6
3"- 4"	6.9	2.3
4 1/2" - 10"	7.8	2.6

KOMBİ SOMUNLU BORU KELEPÇESİ
PIPE CLAMP WITH COMBI NUT

Ürün Kodu (Product Code)	Boyutlar / Ölçüler (Dimensions)		Kalınlık X Genişlik (Thickness X Width)	Yan Vidalar (Side Screws)	Somun (Nut)	Kutu Başına Adet (Quantity Per Boxes)	Kutu Ağırlığı (Weight Per Box)
	(mm)	(inch)	TXB (mm)	R (mm)	S (mm)	Pcs/box	(kg)
EK 0015 KSK	13 - 20	1/4 "	1,00 X 20	M5X15	M8/10	300	12.61
EK 0018 KSK	17 - 23	3/8 "	1,00 X 20	M5X15	M8/10	300	14.01
EK 0020 KSK	21 - 26	1/2 "	1,00 X 20	M5X15	M8/10	300	14.18
EK 0025 KSK	26 - 30	3/4 "	1,00 X 20	M5X15	M8/10	200	10.25
EK 0032 KSK	33 - 37	1 "	1,00 X 20	M5X15	M8/10	200	12.01
EK 0040 KSK	40 - 46	1 1/4 "	1,20 X 20	M5X15	M8/10	100	9.62
EK 0048 KSK	48 - 53	1 1/2 "	1,20 X 20	M5X15	M8/10	120	9.76
EK 0054 KSK	53 - 59	53 - 59	1,20 X 20	M5X15	M8/10	120	8.69
EK 0056 KSK	60 - 66	2 "	1,20 X 20	M5X15	M8/10	75	6.80
EK 0067 KSK	67 - 77	67 - 77	1,50 X 25	M6X30	M8/10	75	7.03
EK 0075 KSK	75 - 84	2 1/2 "	1,50 X 25	M6X30	M8/10	50	8.28
EK 0083 KSK	83 - 93	83 - 93	1,50 X 20	M6X30	M8/10	40	7.34
EK 0086 KSK	87 - 96	3 "	1,50 X 25	M6X30	M8/10	40	7.82
EK 0097 KSK	94 - 104	3 1/2"	1,50 X 25	M6X30	M8/10	40	7.85
EK 0101 KSK	109 - 119	4 "	1,50 X 25	M6X30	M8/10	40	8.98
EK 0123 KSK	118 - 125	4 1/2 "	2,00 X 25	M6X30	M8/10	50	12.61
EK 0138 KSK	135 - 146	5 "	2,00 X 25	M6X30	M8/10	25	7.26
EK 0160 KSK	150 - 162	5 1/2 "	2,00 X 25	M6X30	M8/10	25	8.71
EK 0166 KSK	158 - 169	6 "	2,00 X 25	M6X30	M8/10	25	8.73
EK 0195 KSK	197 - 207	7 "	2,00 X 25	M6X30	M8/10	25	9.58
EK 0216 KSK	216 - 224	8 "	2,00 X 25	M6X30	M8/10	20	11.30
EK 0270 KSK	269 - 275	10 "	2,00 X 25	M6X30	M8/10	10	11.41

KELEPÇELER
PIPE CLAMPS





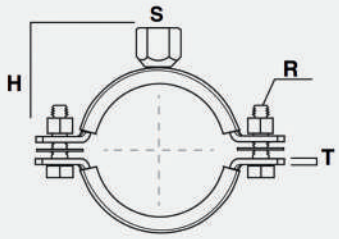
Ölçü (Dimensions)	Kopma Yükü (Breaking Load)	Tavsiye Edilen Yük (Recommended Load)
	(KN)	(KN)
1" - 3"	10	2.75
4"	14	3.75
4 1/2" - 10"	20	6

AĞIR YÜK BORU KELEPÇESİ (KAFALI) — HEAVY DUTY PIPE CLAMP (HEADED)

Ürün Kodu (Product Code)	Boyutlar / Ölçüler (Dimensions)		Kalınlık X Genişlik (Thickness X Width)	Yan Vidalar (Side Screws)	Somun (Nut)	Kutu Başına Adet (Quantity Per Boxes)	Kutu Ağırlığı (Weight Per Box)
	(mm)	(inch)	TXB (mm)	R (mm)	S (mm)	Pcs/box	(kg)
EK 0032 AKK	32 - 36	1 "	2,00 X 25	M8 X 30	10,5x14	60	10.99
EK 0039 AKK	41 -45	1 1/4 "	2,00 X 25	M8 X 30	10,5x14	50	9.76
EK 0048 AKK	49 - 53	1 1/2 "	2,00 X 25	M8 X 30	10,5x14	40	8.59
EK 0059 AKK	59 - 65	2 "	2,00 X 25	M8 X 30	10,5x14	40	9.57
EK 0074 AKK	75 - 83	2 1/2 "	2,00 X 25	M8 X 30	10,5x14	40	10.36
EK 0087 AKK	87 - 95	3 "	2,00 X 25	M8 X 30	10,5x14	30	8.67
EK 0108 AKK	108 - 118	4 "	2,50 X 30	M8 X 30	12x14	20	10.58
EK 0135 AKK	134 - 147	5 "	3,00 X 30	M10 X 45	12x14	20	12.25
EK 0162 AKK	157 - 169	6 "	3,00 X 30	M10 X 45	12x14	15	9.95
EK 0206 AKK	211 - 226	8 "	4,00 X 30	M10 X 45	12x14	10	10.63
EK 0260 AKK	265 - 273	10 "	4,00 X 30	M10 X 45	12x14	7	9.40

KELEPÇELER
PIPE CLAMPS







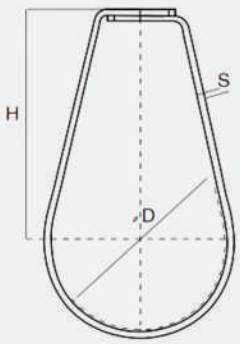
Ölçü (Dimensions)	Kopma Yükü (Breaking Load)	Tavsiye Edilen Yük (Recommended Load)
	(KN)	(KN)
1" - 3"	10	2.75
4"	14	3.75
4 1/2" - 10"	20	6

AĞIR YÜK BORU KELEPÇESİ (SOMUNLU) — HEAVY DUTY PIPE CLAMP (NUT)

Ürün Kodu (Product Code)	Boyutlar / Ölçüler (Dimensions)		Kalınlık X Genişlik (Thickness X Width)	Yan Vidalar (Side Screws)	Somun (Nut)	Kutu Başına Adet (Quantity Per Boxes)	Kutu Ağırlığı (Weight Per Box)
	(mm)	(inch)	TXB (mm)	R (mm)	S (mm)	Pcs/box	(kg)
EK 0032 ASK	32 - 36	1 "	2,00 X 25	M8 X 30	M12	70	12.16
EK 0039 ASK	41 -45	1 1/4 "	2,00 X 25	M8 X 30	M12	60	10.28
EK 0048 ASK	49 - 53	1 1/2 "	2,00 X 25	M8 X 30	M12	50	9.28
EK 0059 ASK	59 - 65	2 "	2,00 X 25	M8 X 30	M12	40	8.12
EK 0074 ASK	75 - 83	2 1/2 "	2,00 X 25	M8 X 30	M12	40	8.85
EK 0087 ASK	87 - 95	3 "	2,00 X 25	M8 X 30	M12	40	10.08
EK 0108 ASK	108 - 118	4 "	2,50 X 30	M8 X 30	M12	20	14.29
EK 0135 ASK	134 - 147	5 "	3,00 X 30	M10 X 45	M16	20	11.38
EK 0162 ASK	157 - 169	6 "	3,00 X 30	M10 X 45	M16	15	9.21
EK 0206 AKS	211 - 226	8 "	4,00 X 30	M10 X 45	M16	10	10.15
EK 0260 ASK	265 - 273	10 "	4,00 X 30	M10 X 45	M16	7	8.88

KELEPÇELER
PIPE CLAMPS





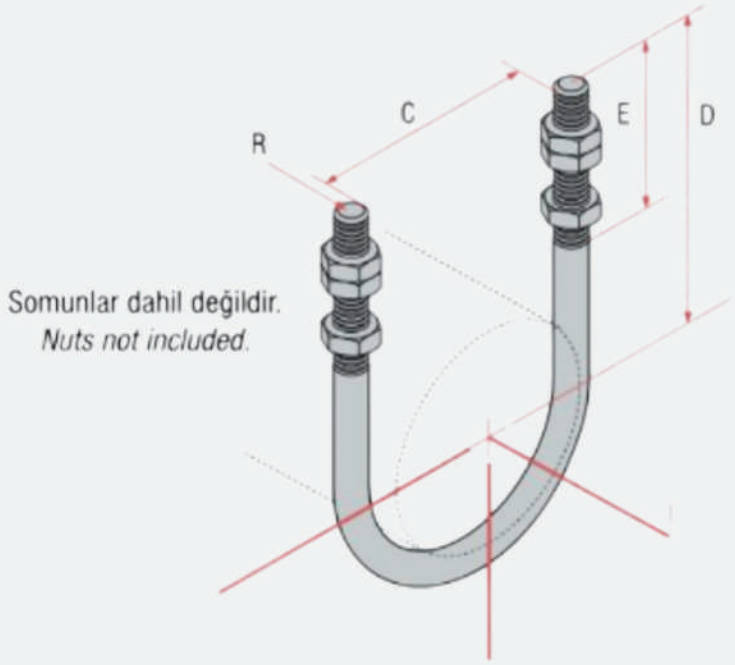


Ölçü (Dimensions)	Kopma Yükü (Breaking Load)	Tavsiye Edilen Yük (Recommended Load)
	(KN)	(KN)
1" - 2"	14	1.5
21/2" -4"	21	3.9
5" - 6"	25	7.5
8" - 10"	40	13

SPRINKLER BORU KELEPÇESİ
SPRINKLER PIPE CLAMP

Ürün Kodu (Product Code)	Boyutlar / Ölçüler (Dimensions)		Kalınlık X Genişlik (Thickness X Width)	Delik Çapı (Hole)	Kutu Başına Adet (Quantity Per Boxes)	Kutu Ağırlığı (Weight Per Box)
	(mm)	(inch)	TXB (mm)	R (mm)	Pcs/box	(kg)
EK 0020 SP	20	3/4"	1,00 X 25	10,5	150	5.80
EK 0025 SP	25	1	1,00 X 25	10,5	150	5.85
EK 0032 SP	32	11/4"	1,00 X 25	10,5	150	5.97
EK 0040 SP	40	11/2"	1,20 X 25	10,5	100	6.05
EK 0050 SP	50	2	1,20 X 25	10,5	80	5.46
EK 0065 SP	65	2 1/2"	1,20 X 25	10,5	75	6.92
EK 0080 SP	80	3"	1,50 X 25	10,5	50	5.57
EK 0100 SP	100	4"	1,50 X 25	10,5	50	5.67
EK 0125 SP	125	5"	2,00 X 25	10,5	30	5.83
EK 0150 SP	150	6"	2,50 X 25	13	25	7.29
EK 0200 SP	200	8"	2,50 X 25	13	20	8.06
EK 0250 SP	250	10""	2,50 X 25	13	20	8.06

KELEPÇELER
PIPE CLAMPS



U BOLT

U BOLT

Ürün Kodu (Product Code)	Boyutlar / Ölçüler (Dimensions)	Birim (Unit)	R mm	C mm	D mm	E mm
ESRUB-M8 1 1/2"	M8	Adet / Pcs	M.8	52	56	50
ESRUB-M10 2"	M10	Adet / Pcs	M.10	64	68	50
ESRUB-M10 2 1/2"	M10	Adet / Pcs	M.10	78	71	50
ESRUB-M12 3"	M12	Adet / Pcs	M.12	94	81	60
ESRUB-M12 4"	M12	Adet / Pcs	M.12	118	89	65
ESRUB-M12 5"	M12	Adet / Pcs	M.12	146	115	65
ESRUB-M16 6"	M16	Adet / Pcs	M.16	172	118	90
ESRUB-M16 8"	M16	Adet / Pcs	M.16	224	142	90
ESRUB-M16 10"	M16	Adet / Pcs	M.16	278	169	100

KAYAR YATAK

—— SLIDING SUPPORT

Kayar yatak, boru hatlarında oluşan termal genleşme ve büzülme hareketlerine izin vererek borunun serbestçe hareket etmesini sağlar. Bu sayede boru üzerinde oluşabilecek gerilmeleri azaltır ve bu hareketlerden kaynaklanan yüklerin yapıya aktarılmasını önler.

Sliding bearings allow pipes to move freely by accommodating thermal expansion and contraction in piping systems. This reduces stress on the pipe and prevents loads caused by these movements from being transferred to the structure.



Düşük sürtünme ile kolay hareket
Easy movement with low friction



Yük transferini azaltma
Reduced load transfer



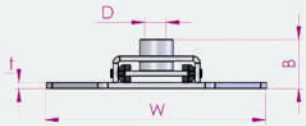
Uzun ömürlü kullanım
Long service life

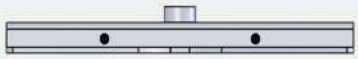


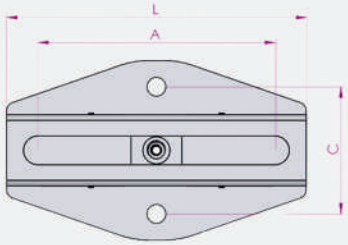
Bakım ihtiyacının düşük olması
Low maintenance requirement

KAYAR YATAK
SLIDING SUPPORT



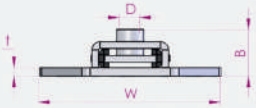




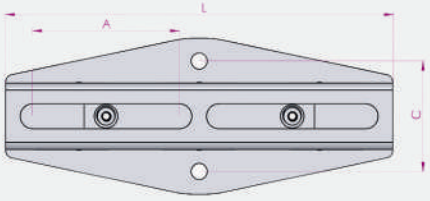


Kod Code	Çalışma Aralığı Operating Range	A	B	C	D	W	T	L	Std. Kaplama Std. Coating
	mm	mm	mm	mm	mm	mm	mm	mm	
ESKY-1	0-80	80	23-27	75	M8	106	2.5	117	E HD
ESKY-2	0-80	80	23-27	75	M10	106	2.5	117	E HD
ESKY-3	0-140	140	23-27	75	M8	106	3.0	117	E HD
ESKY-4	0-140	140	23-27	75	M10	106	3.0	117	E HD



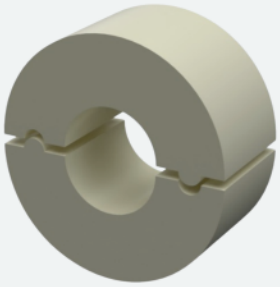


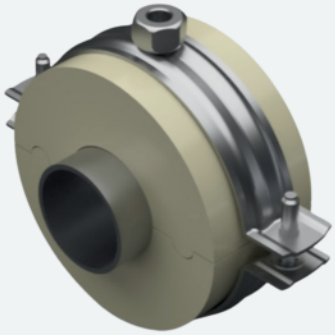




Kod Code	Çalışma Aralığı Operating Range	A	B	C	D	W	T	L	Std. Kaplama Std. Coating
	mm	mm	mm	mm	mm	mm	mm	mm	
ESKY-5	0-40	40	23-27	75	M8	106	2.5	144	E HD
ESKY-6	0-40	40	23-27	75	M10	106	2.5	144	E HD
ESKY-7	0-40	40	23-27	75	M12	106	2.5	144	E HD
ESKY-8	0-70	70	23-27	75	M8	106	2.5	204	E HD
ESKY-9	0-70	70	23-27	75	M10	106	3.0	204	E HD
ESKY-10	0-70	70	23-27	75	M12	106	3.0	204	E HD
ESKY-11	0-100	100	23-27	75	M8	106	3.0	264	E HD
ESKY-12	0-100	100	23-27	75	M10	106	4.0	264	E HD
ESKY-13	0-100	100	23-27	75	M12	106	4.0	264	E HD

İZOLASYON TAKOZLARI
INSULATION SUPPORT





POLİÜRETAN İZOLASYON TAKOZU			POLYURETHANE INSULATION SUPPORT
Yoğunluk / Min. Density	80 kg/m³	100 kg/m³	145 kg/m³
Sıcaklık Dayanımı / Temperature Range		-45°C / +150°C	
Isı İletkenlik / Thermal Conductivity	0.038 W/mK	0.042 W/mK	0.048 W/mK
Sıkma Dayanımı / Compressive Strength	600 kPa	1000 kPa	1500 kPa
Yangın Sınıfı / Fire Properties		DIN 4102 Class B2	
Su Buharı Difüzyon Dayanım Katsayısı Water Vapour Diffusion Resistance Coefficient		μ > 7.000** / μ > 18.750**	

***Standart üretim. Talebe göre farklı yoğunluklarda üretilebilir.**
*Standart production. If demanded, it can be produced at different densities

**Kauçuk koruyucu bant için
**For rubber protective tape

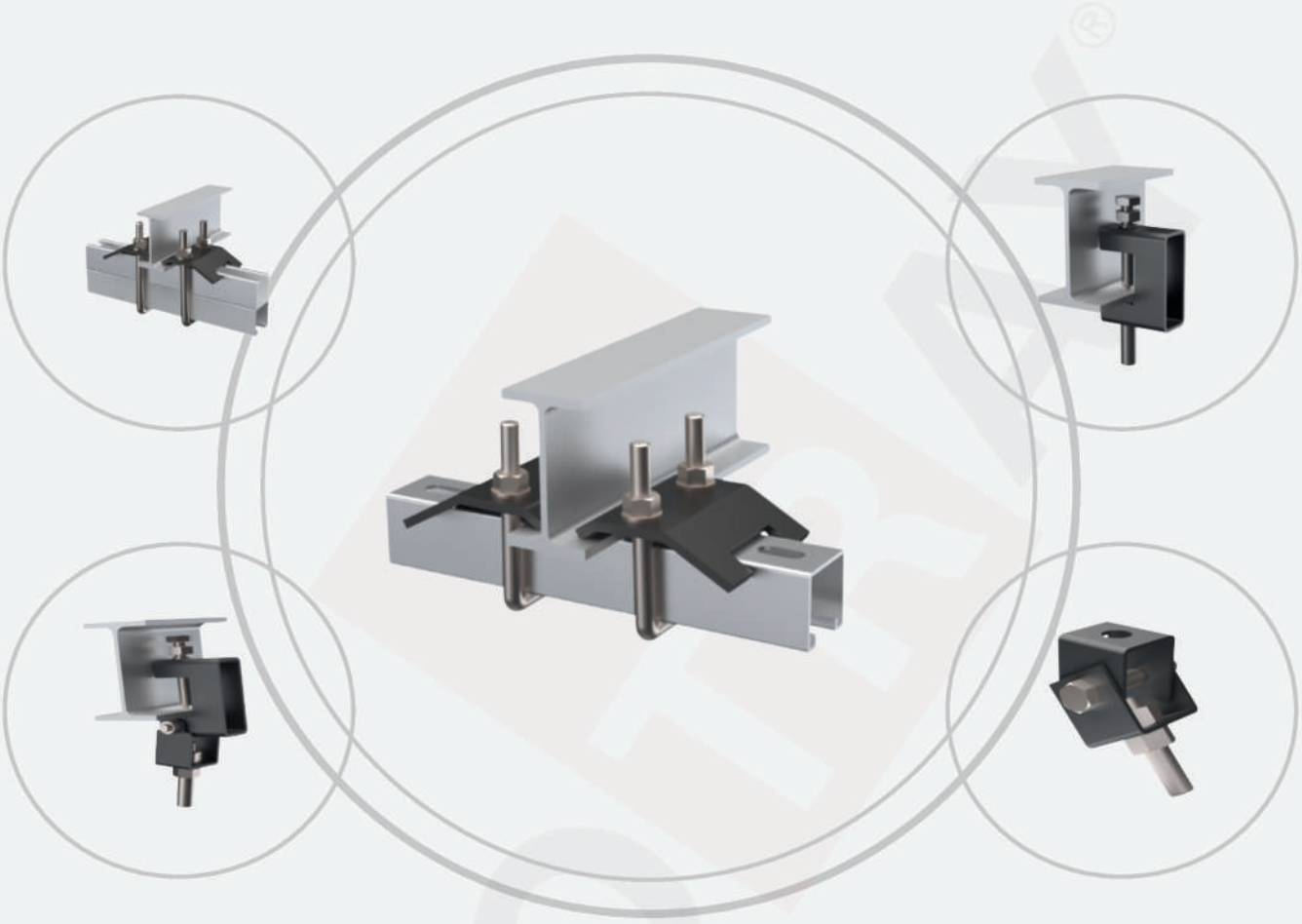
***Al-folyo koruyucu bant için
*** For al-foil protective tape

BOYUTLAR — DIMENSIONS

Boru Ölçüsü (Pipe Size)		t: 13mm		t: 20mm		t: 30mm		t: 40mm		t: 50mm	
Inch	D(mm)	Kod/Code	L (mm)	Kod/Code	L (mm)	Kod/Code	L (mm)	Kod/Code	L (mm)	Kod/Code	L (mm)
3/8	15	ESPT 01005013	50	ESPT 01005020	50	ESPT 01005030	50	ESPT 01005040	50	-	-
1/2	22	ESPT 01505013	50	ESPT 01505020	50	ESPT 01505030	50	ESPT 01505040	50	-	-
3/4	27	ESPT 02005013	50	ESPT 02005020	50	ESPT 02005030	50	ESPT 02005040	50	-	-
1	34	ESPT 02505013	50	ESPT 02505020	50	ESPT 02505030	50	ESPT 02505040	50	-	-
11/4	43	ESPT 03205013	50	ESPT 03205020	50	ESPT 03205030	50	ESPT 03205040	50	-	-
11/2	49	ESPT 04005013	50	ESPT 04005020	50	ESPT 04005030	50	ESPT 04005040	50	-	-
2	61	ESPT 05005013	50	ESPT 05005020	50	ESPT 05005030	50	ESPT 05005040	50	-	-
21/12	77	ESPT 06505013	50	ESPT 06502020	50	ESPT 06505030	50	ESPT 06505040	50	-	-
3	90	-	-	ESPT 08005020	50	ESPT 08005030	50	ESPT 08005040	50	-	-
4	115	-	-	ESPT 10010020	100	ESPT 10010030	100	ESPT 10010040	100	ESPT 10010050	100
5	145	-	-	-	-	ESPT 12510030	100	ESPT 12510040	100	ESPT 12510050	100
6	170	-	-	-	-	ESPT 15010030	100	ESPT 15010040	100	ESPT 15010050	100
8	222	-	-	-	-	ESPT 20010030	100	ESPT 20010040	100	ESPT 20010050	100
10	275	-	-	-	-	-	-	-	-	ESPT 25010050	100
12	326	-	-	-	-	-	-	-	-	ESPT 30010050	100
14	370	-	-	-	-	-	-	-	-	ESPT 35010050	100
16	410	-	-	-	-	-	-	-	-	ESPT 40010050	100
18	450	-	-	-	-	-	-	-	-	ESPT 45010050	100

ÇELİK BAĞLANTI

STEEL CONNECTION



Kiriş kenetleri, taşıyıcı sistemlerin çelik yapı elemanlarına kaynak veya delme işlemi gerektirmeden, hızlı ve kolay şekilde bağlanmasını sağlayan pratik bağlantı elemanlarıdır. Farklı uygulama ihtiyaçlarına uygun çeşitli tipleri sayesinde sahada esnek, güvenli ve verimli bağlantı imkânı sunar.

Beam clamps are practical connection elements that enable fastening to the steel structural components of support systems quickly and easily, without the need for welding or drilling. Thanks to their various types suitable for different application needs, they provide flexible, safe, and efficient connection solutions on site.

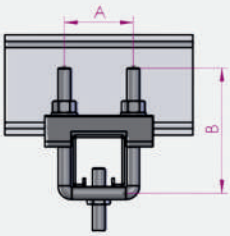
ESTETİK
AESTHETICS

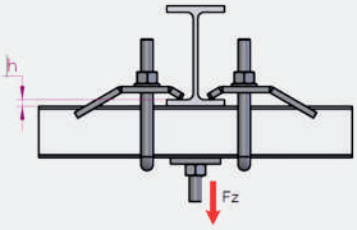
İMALAT HIZI
MANUFACTURING SPEED

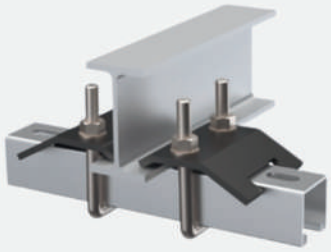
MÜHENDİSLİK DESTEĞİ
ENGINEERING SUPPORT

MALİYET
COST

ÇELİK BAĞLANTI
STEEL CONNECTION

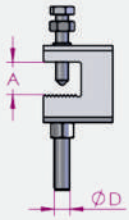







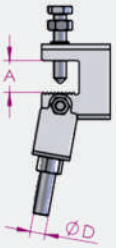
Kod / Code	Uygulamaya Uygun Ürünler Suitable Products for the Application	A	B	D	H	FZ	Ağırlık / Weight	Kaplama / Coating
		mm	mm	mm	mm	kN	kg	
ESCM-96	EURO-PRIME 41X21 / EURO-PRIME 41X41	55	100	M10	≤22	4.2	0.423	E
ESCM-97	EURO-PRIME 41X62 / EURO-PRIME 41X82	55	144	M12	≤22	5.1	0.57	E

Kullanım (Servis) / Use (Service) : **Euro-Prime G Profilleri yapısal çeliğe sabitlemek için kullanılır. Delme ve kaynak gerektirmez. Profilin konumunu ayarlamak oldukça kolaydır. Ön montajlı olarak teslim edilir. /** Used to fix Euro-Prime G profiles to structural steel. No drilling or welding is required. The position of the profile can be easily adjusted. Supplied pre-assembled.

Kod / Code	A	D	FZ	Ağırlık / Weight	Kaplama / Coating
	mm	mm	kN	kg	
ESCM-98	25	M10 / 12	4.0	0.19	E
ESCM-99	55	M10 / 12	4.5	0.249	E

Kullanım (Servis) / Use (Service) : **Çelik konstrüksiyona delmeden ve kaynak yapmadan hızlı ve kolay şekilde boruların, havalandırma kanallarının, kablo tavalarının ve ekipmanların askılamasında kullanılır. /** Used for the quick and easy suspension of pipes, ventilation ducts, cable trays, and equipment on steel structures without drilling or welding.

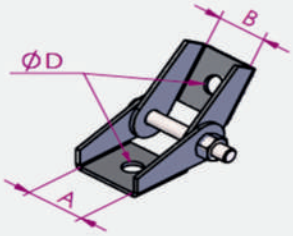



Kod / Code	Max. Montaj Açısı Max. Installation Angle	A	D	FZ	Ağırlık / Weight	Kaplama / Coating
		mm	mm	kN	kg	
ESCM-100	30	25	M10 / 12	4.0	0.247	E
ESCM-101	30	40	M10 / 12	4.5	0.356	E

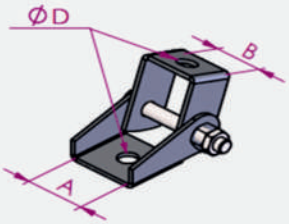
Kullanım (Servis) / Use (Service) : **Açılı Çelik konstrüksiyona delmeden ve kaynak yapmadan hızlı ve kolay şekilde boruların, havalandırma kanallarının, kablo tavalarının ve ekipmanların askılamasında kullanılır.** / Used for the quick and easy suspension of pipes, ventilation ducts, cable trays, and equipment on angled steel structures without drilling or welding.

MAFSAL BAĞLANTI ELEMANLARI
ARTICULATED CONNECTION ELEMENTS









Kod / Code	**Uygulamaya uygun Ürünler** Sultable Products for the Application	**Max. Montaj Açısı** Max. Installation Angle	**A**	**B**	**D**	**Ağırlık** / Weight	**Kaplama** / Coating
			mm	mm	mm	kg	
ESCM-102	**EURO-PRIME 41X21 EURO-PRIME 41X41 EURO-PRIME 41X62**	30	44	36	13	0.224	E
ESCM-103	**EURO-PRIME 41X21 EURO-PRIME 41X41 EURO-PRIME 41X62**	30	44	36	13	0.216	E

Kullanım (Servis) / Use (Service) : **Euro-Prime G profilinin yapıya, tesisata veya konsola bağlantısı için kullanılır.** / Thanks to its special design, it enables the easy and quick installation of EURO-PRIME G series profiles and connection elements.



Kod / Code	**Max. Montaj Açısı** Max. Installation Angle	**D**	**FZ**	**Ağırlık** Weight	**Kaplama** / Coating
mm	mm	mm	kN	kg	
ESCM-104	30	M8 / 10	2.5	0.088	E
ESCM-105	30	M12	3.5	0.131	E

Kullanım (Servis) / Use (Service) : **Yapı ile tesisat arasında açısal farklılıkların olduğunda kullanılır.** / Used when there are angular differences between the structure and the installation.

EUROTRAY®

GENEL TESPİT ELEMANLARI
GENERAL FASTENERS AND FIXING ELEMENTS



A.K.B CiVATA — Hexagon Head Bolt

Sipariş Kodu / Order Code	**Ölçü** / Dimension	**Birim** / Unit	**Ağırlık** / Weight (Kg)
ESHB-M5x35	M5x35	Adet / Pcs	0.005
ESHB-M6x20	M6x20	Adet / Pcs	0.006
ESHB-M6x25	M6x25	Adet / Pcs	0.007
ESHB-M6x35	M6x35	Adet / Pcs	0.009
ESHB-M8x12	M8x12	Adet / Pcs	0.010
ESHB-M8x25	M8x25	Adet / Pcs	0.014
ESHB-M8x40	M8x40	Adet / Pcs	0.022
ESHB-M8x50	M8x50	Adet / Pcs	0.026
ESHB-M8x70	M8x70	Adet / Pcs	0.034
ESHB-M8x110	M8x110	Adet / Pcs	0.051
ESHB-M10x20	M10x20	Adet / Pcs	0.021
ESHB-M10x25	M10x25	Adet / Pcs	0.023
ESHB-M10x30	M10x30	Adet / Pcs	0.026
ESHB-M10x40	M10x40	Adet / Pcs	0.038
ESHB-M10x50	M10x50	Adet / Pcs	0.044
ESHB-M10x60	M10x60	Adet / Pcs	0.050
ESHB-M10x70	M10x70	Adet / Pcs	0.056
ESHB-M12x30	M12x30	Adet / Pcs	0.038



SOMUN — NUT

Sipariş Kodu / Order Code	**Ölçü** / Dimension	**Birim** / Unit	**Ağırlık** / Weight (Kg)
ESN-M5	M5	Adet / Pcs	0.003
ESN-M6	M6	Adet / Pcs	0.004
ESN-M8	M8	Adet / Pcs	0.005
ESN-M10	M10	Adet / Pcs	0.011
ESN-M12	M12	Adet / Pcs	0.017

GENEL TESPİT ELEMANLARI
GENERAL FASTENERS AND FIXING ELEMENTS



FLANŞLI SOMUN — FLANGED NUT

Sipariş Kodu / Order Code	**Ölçü** / Dimension	**Birim** / Unit	**Ağırlık** / Weight (Kg)
ESFN-M8	M8	Adet / Pcs	0.009
ESFN-M10	M10	Adet / Pcs	0.017
ESFN-M12	M12	Adet / Pcs	0.027



UZATMA SOMUNU — EXTENSION NUT

Sipariş Kodu / Order Code	**Ölçü** / Metric Bolt	**Birim** / Unit	**Ağırlık** / Weight (Kg)
ESLN-M8	M8x40	Adet / Pcs	0.025
ESLN-M10	M10x40	Adet / Pcs	0.030
ESLN-M12	M12x40	Adet / Pcs	0.040



PUL — WASHER

Sipariş Kodu / Order Code	**Ölçü** / Dimension	**Birim** / Unit	**Ağırlık** / Weight (Kg)
ESPW-M5	M5	Adet / Pcs	0.001
ESPW-M6	M6	Adet / Pcs	0.001
ESPW-M8	M8	Adet / Pcs	0.002
ESPW-M10	M10	Adet / Pcs	0.003
ESPW-M12	M12	Adet / Pcs	0.004



YAYLI RONDELA — LOCK WASHER

Sipariş Kodu / Order Code	**Ölçü** / Dimension	**Birim** / Unit	**Ağırlık** / Weight (Kg)
ESSW-M8	M8	Adet / Pcs	0.002
ESSW-M10	M10	Adet / Pcs	0.003
ESSW-M12	M12	Adet / Pcs	0.005



TİJ TESPİT ELEMANI — THREADED ROD FIXING ELEMENT

Sipariş Kodu / Order Code	**Ölçü** / Dimension	**Birim** / Unit	**Ağırlık** / Weight (Kg)
ESRCT-3 M8	M8	Adet / Pcs	0.117
ESRCT-3 M10	M10	Adet / Pcs	0.157
ESRCT-3 M12	M12	Adet / Pcs	0.176

GENEL TESPİT ELEMANLARI
GENERAL FASTENERS AND FIXING ELEMENTS



ASKI TİJİ — THREADED ROD

Sipariş Kodu / Order Code	Ölçü / Dimension	Birim / Unit	Ağırlık / Weight (Kg)
ESR-M8x1000	M8	Adet / Pcs	0,302
ESR-M8x2000	M8	Adet / Pcs	0.604
ESR-M8x3000	M8	Adet / Pcs	0.906
ESR-M10x1000	M10	Adet / Pcs	0.478
ESR-M10x2000	M10	Adet / Pcs	0.956
ESR-M10x3000	M10	Adet / Pcs	1.434
ESR-M12x1000	M12	Adet / Pcs	0.690
ESR-M12x2000	M12	Adet / Pcs	1.380
ESR-M12x3000	M12	Adet / Pcs	1.380



GÖMLEKLİ DÜBEL — SLEEVE IN ANCHOR

Sipariş Kodu / Order Code	Ölçü / Dimension	Birim/ Unit	Ağırlık / Weight (Kg)
ESEB-M8	M8x55	Adet / Pcs	0,031
ESEB-M8	M8x75	Adet / Pcs	0,042
ESEB-M10	M10x85	Adet / Pcs	0,073
ESEB-M12	M12x90	Adet / Pcs	0,120



ÇAKMALI DÜBEL — DROP IN ANCHOR

Sipariş Kodu / Order Code	Ölçü / Dimension	Birim/ Unit	Ağırlık / Weight (Kg)
ESDA-M8	M8x30	Adet / Pcs	0,022
ESDA-M10	M10x40	Adet / Pcs	0,045
ESDA-M12	M12x50	Adet / Pcs	0,080



ÇEKMELİ DÜBEL — SLEEVE IN ANCHOR

Sipariş Kodu / Order Code	Ölçü / Dimension	Birim/ Unit	Ağırlık / Weight (Kg)
ESSA-M8	M8x50	Adet / Pcs	0,027
ESSA-M10	M10x60	Adet / Pcs	0,031
ESSA-M12	M12x75	Adet / Pcs	0,042

EUROTRAY PERFORE BANT
EUROTRAY PERFORATED STRAP

Eurotray Perfore Bantlar; inşaat, renovasyon ve hobi (DIY) uygulamalarında çeşitli elemanları askıya almak, sabitlemek, sıkmak veya güvenli şekilde tutturmak için uygun, delikli metal bantlardır. İhtiyacına göre kolayca kesilebilir, bükülebilir ve şekillendirilebilirler; şantiyede karşılaşılan beklenmedik sorunlara pratik bir çözüm sunarlar.
Eurotray Bantlar düz veya kavisli olarak; galvanizli çelik, alüminyum ve paslanmaz çelik seçenekleriyle, farklı delik desenleri, kalınlık ve genişlik alternatifleriyle sunulmaktadır. Tam ürün ve ambalaj özelleştirmesi talep üzerine yapılabilir.

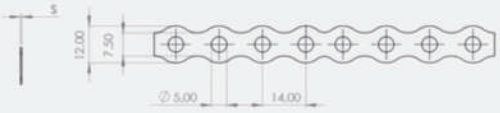
- **Geniş uygulama yelpazesine uygun şekil, genişlik ve desen seçenekleri**
- **Kolay kullanım ve saklama için 10 m'lik dispenser kasetler**
- **Vida, çivi, cıvata, dübel veya diğer uygun bağlantı elemanlarıyla kullanılabilir**
- **HVAC, DIY, sıhhi tesisat veya elektrik uygulamalarında çok yönlü bir ürün**
- **Yüksek kaliteli plastik kaplama seçeneği ile güvenilir elektrik yalıtımı ve korozyon direnci sağlar**
- **Kolayca kesilebilir, bükülebilir ve şekillendirilebilir**

Eurotray Perforated Straps are perforated metal bands designed to suspend, secure, clamp, or fasten various components safely in construction, renovation, and DIY applications. They can be easily cut, bent, and shaped according to your needs, offering a practical solution to unexpected challenges encountered on site.
Eurotray Straps are available in flat or curved forms; in galvanized steel, aluminum, and stainless steel options, with various hole patterns, thicknesses, and width alternatives. Full product and packaging customization is available upon request.

- Shape, width, and pattern options suitable for a wide range of applications
- 10 m dispenser cassettes for easy use and storage
- Can be used with screws, nails, bolts, anchors, or other suitable fasteners
- A versatile product for HVAC, DIY, plumbing, or electrical applications
- Provides reliable electrical insulation and corrosion resistance with a high-quality plastic coating option
- Can be easily cut, bent, and shaped



EUROTRAY PERFORE BANT
EUROTRAY PERFORATED STRAP



12 MM MONTAJ ŞERİDİ (WAVE DESEN)
12 MM MOUNTING STRIP (WAVE PATTERN)

KALINLIK (S) / THICKNESS (S)	**KOPMA KUVVETİ** / BREAKING STRENGTH	**KASE TİPİ** / TRAY TYPE	**MİKTAR (MT)** / QUANTITY (M)	**KOLİ ADETİ** / CARTON QUANTITY
0.3	56.17	**KÜÇÜK** / SMALL	10	70
0.5	93.61	**KÜÇÜK** / SMALL	10	70
0.3	56.17	**KÜÇÜK** / SMALL	15	32/27
0.5	93.61	**KÜÇÜK** / SMALL	15	32/27
0.3	56.17	**KÜÇÜK** / SMALL	20	32/27
0.5	93.61	**KÜÇÜK** / SMALL	20	32/27



17 MM MONTAJ ŞERİDİ (WAVE DESEN)
17 MM MOUNTING STRIP (WAVE PATTERN)

KALINLIK (S) / THICKNESS (S)	**KOPMA KUVVETİ** / BREAKING STRENGTH	**KASE TİPİ** / TRAY TYPE	**MİKTAR (MT)** / QUANTITY (M)	**KOLİ ADETİ** / CARTON QUANTITY
0.5	137.76	**KÜÇÜK** / SMALL	10	70
0.7	192.73	**BÜYÜK** / BIG	10	32/27
0.5	137.76	**BÜYÜK** / BIG	15	32/27
0.7	192.73	**BÜYÜK** / BIG	15	32/27
0.5	137.76	**BÜYÜK** / BIG	20	32/27

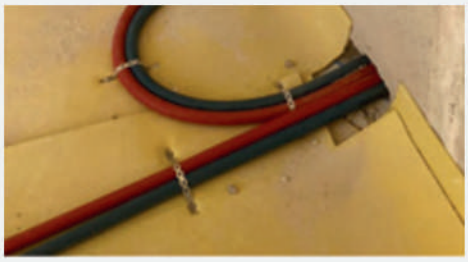


24 MM MONTAJ ŞERİDİ (WAVE DESEN)
24 MM MOUNTING STRIP (WAVE PATTERN)

KALINLIK (S) / THICKNESS (S)	**KOPMA KUVVETİ** / BREAKING STRENGTH	**KASE TİPİ** / TRAY TYPE	**MİKTAR (MT)** / QUANTITY (M)	**KOLİ ADETİ** / CARTON QUANTITY
0.5	233.75	**KÜÇÜK** / SMALL	10	60
0.7	327.25	**BÜYÜK** / BIG	10	32/27
1	476.5	**BÜYÜK** / BIG	10	32/27
0.7	327.25	**BÜYÜK** / BIG	15	32/27
0.5	233.75	**BÜYÜK** / BIG	20	32/27

EUROTRAY PERFORE BANT KULLANIM ALANLARI
EUROTRAY PERFORATED STRAP APPLICATIONS

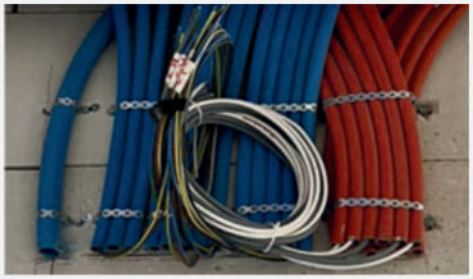
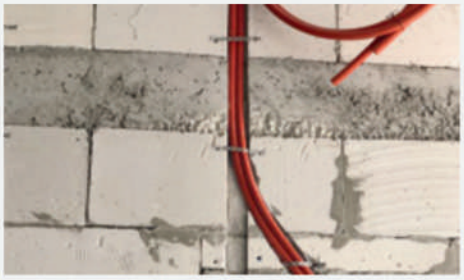
PEX BORULAR VE KALORİFER TESİSATI
PEX PIPES AND HEATING SYSTEMS

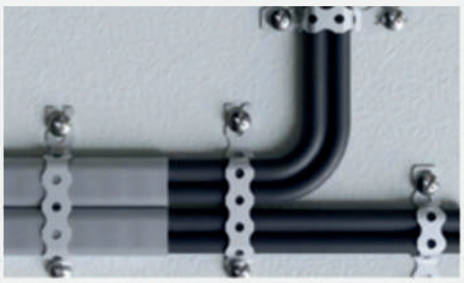




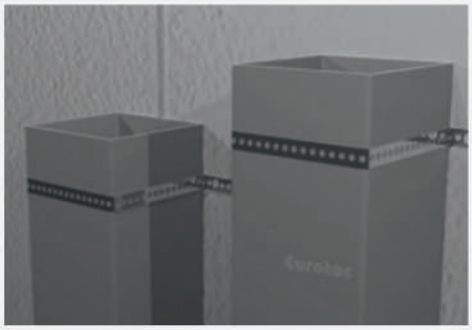


ELEKTRİK KABLO VE BORULARINDA
IN ELECTRICAL CABLE AND CONDUIT SYSTEMS



HAVALANDIRMA KANALLARI
DUCT AIR

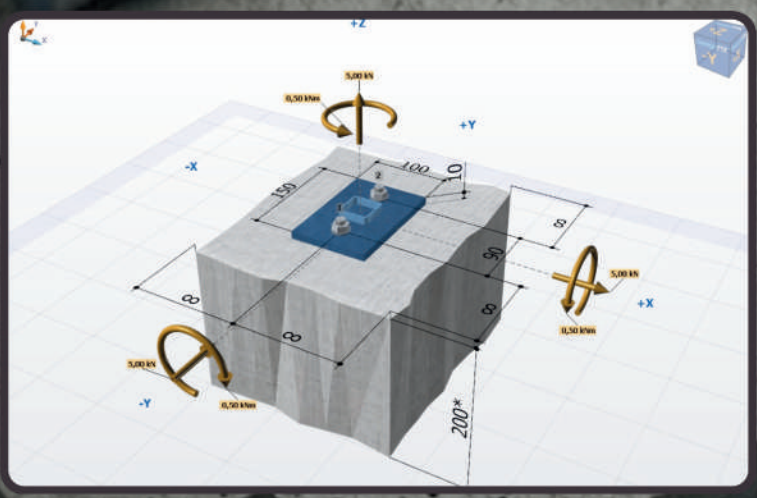


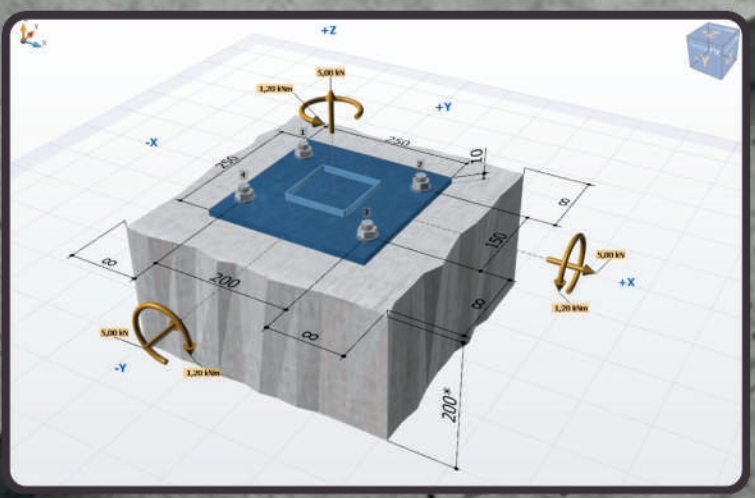


EUROTRAY®

EUROTRAY ÇELİK DÜBEL SİSTEMLERİ

EUROTRAY STEEL ANCHOR SYSTEMS





EUROTRAY ÇELİK DÜBELLER

Yeni EUROTRAY Dübel Sistemleri

Mekanik ve elektrik bağlantı çözümlerinin önemli bileşenlerinden biri olan dübel sistemleri, sunduğumuz bağlantı sistemlerinin tamamlayıcı unsurlarından biridir. ETA onaylı ve sertifikalı dübel çözümleri ürün portföyümüze dahil edilerek, geliştirdiğimiz mekanik bağlantı sistemleri için güvenilir ve yüksek performanslı sabitleme çözümleri müşterilerimize sunulmaktadır. Bu sayede EUROTRAY, Türkiye'de ve uluslararası pazarlarda iş ortaklarına kapsamlı ve güvenilir bağlantı çözümleri sağlamaya devam etmektedir.

EUROTRAY Dübel Sistemleri, mekanik askı ve bağlantı sistemleri alanındaki mühendislik deneyimimiz doğrultusunda portföyümüze dahil edilmiş olup; özellikle mekanik ve elektrik tesisat bağlantı sistemleri, sismik dayanım gerektiren uygulamalar ve titreşim kontrol çözümleri gibi farklı alanlarda yapı elemanlarının güvenli şekilde sabitlenmesini destekleyen çözümler sunmaktadır. Bu ürünler, farklı uygulama ihtiyaçlarına uygun sabitleme çözümleri sağlayarak sistem çözümlerimizin önemli bir parçasını oluşturmaktadır.

Hesap Yazılım Programı ile Profesyonel Hizmet

Hesap yazılım programı sayesinde dübel sistemlerinin hem statik hem de dinamik yükler altındaki dayanımı hızlı ve güvenilir şekilde hesaplanabilmektedir. Bu yazılım altyapısı, projelendirme süreçlerinde doğru ürün seçiminin yapılmasını kolaylaştırarak mühendislik hesaplarının hızlı şekilde doğrulanmasına imkân sağlar.

Yangın ve deprem gibi risklerin bulunduğu bölgelerde kullanılan bağlantı çözümlerinde, dübel sistemleri güvenli yapı tasarımının önemli bir parçasını oluşturur. EUROTRAY, mekanik askı ve bağlantı sistemleri alanındaki mühendislik deneyimi ile yüksek kaliteli ve sertifikalı ürünleri sistem çözümlerinin bir parçası olarak müşterilerine sunmakta; projelendirme aşamasından uygulama sahasına kadar güvenilir mühendislik desteği sağlamaya devam etmektedir.

Ankraj Seçim Kriterleri

Bir ankrajın doğru seçimi ve güvenli montajı için uygulama koşullarına bağlı bazı temel teknik faktörler dikkate alınmalıdır. Bu kriterler ankrajın güvenli performansı ve uzun ömürlü kullanımı açısından belirleyicidir.

Çevresel koşullar bağlantı elemanının malzeme ve kaplama seçimini etkiler. Nem, kimyasal ortam ve dış etkenler özellikle korozyon direncini belirleyen faktörlerdir.

Ana yapı malzemesi, ankrajın uygulanacağı yüzeyin türünü ifade eder. Beton, dolu duvar veya boşluklu duvar gibi farklı yapı malzemeleri farklı ankraj çözümleri gerektirebilir.

Yük türü ve yönü de ankraj seçimini etkileyen önemli bir kriterdir. Statik veya dinamik yükler ile çekme, kesme veya kombine yükler ankraj performansını belirler.

EUROTRAY ÇELİK DÜBELLER

Ankraj aralıkları ve kenar mesafeleri ana yapı malzemesinin zarar görmemesi için belirlenen minimum değerlere uygun olmalıdır. Ayrıca seçilen ankraj sisteminin uygulamada oluşabilecek yükleri güvenli şekilde taşıyabilecek kapasitede olması gerekir. Montaj sırasında ankraj derinliği ve montaj talimatları da uygulamanın güvenli şekilde gerçekleştirilmesi için dikkate alınmalıdır.

Ankraj Türleri

Tork Kontrollü Genişleyen Dübel

Bu ankraj tipinde yükler, ankraj gövdesi ile açılan deliğin yüzeyi arasındaki sürtünme sayesinde yapı elemanına aktarılır. Ankraj içerisinde bulunan konik veya kama elemanının hareketi sonucu gövde genişler ve ankraj yapı içerisinde güvenli şekilde sabitlenir.

Deformasyon Kontrollü Genişleyen Dübel

Bu sistemde civata veya somuna uygulanan tork, konik parçanın genişleme manşonunun içine çekilmesini sağlar. Bu hareket ankrajın genişlemesine neden olur ve yapı içerisinde güvenli bir sabitleme oluşturur.

Yapı Malzemesi

Doğru ankraj seçimi için uygulanacağı ana yapı malzemesinin özellikleri dikkate alınmalıdır. Yüzeyin doğru tanımlanması, ankrajın güvenli şekilde monte edilmesi ve yük altında güvenilir performans göstermesi açısından önem taşır.

Beton, çimento, agrega ve su karışımından oluşan bir yapı malzemesidir. Genellikle yüksek basınç dayanımına sahip olmakla birlikte çekme dayanımı daha düşüktür.

Hafif beton ise agregaların yerine pomza veya cüruf gibi hafif malzemeler kullanılarak üretilir ve bu nedenle standart betona kıyasla daha düşük dayanım değerleri gösterebilir.

EUROTRAY®

EUROTRAY STEEL ANCHORS

New EUROTRAY Anchor Systems

Anchor systems, which are among the key components of mechanical and electrical fixing solutions, are complementary elements of the connection systems we offer. By incorporating ETA-approved and certified anchor solutions into our product portfolio, we provide our customers with reliable and high-performance fixing solutions for the mechanical connection systems we develop. In this way, EUROTRAY continues to deliver comprehensive and dependable connection solutions to its business partners both in Türkiye and in international markets.

EUROTRAY Anchor Systems have been included in our portfolio in line with our engineering experience in mechanical support and connection systems. They provide solutions that support the secure fixing of structural elements in various applications, particularly in mechanical and electrical installation support systems, seismic-resistant applications, and vibration control solutions. These products form an important part of our system solutions by offering fixing solutions suitable for different application requirements.

Professional Service with Calculation Software

Thanks to the calculation software program, the performance of anchor systems under both static and dynamic loads can be calculated quickly and reliably. This software infrastructure facilitates the correct product selection during the design process and enables rapid verification of engineering calculations.

In connection solutions used in regions exposed to risks such as fire and earthquakes, anchor systems form an essential part of safe structural design. With its engineering expertise in mechanical support and connection systems, EUROTRAY offers high-quality and certified products as part of its system solutions and continues to provide reliable engineering support from the design stage to the installation site.

Anchor Selection Criteria

For the correct selection and safe installation of an anchor, certain key technical factors depending on the application conditions must be considered. These criteria are decisive for the safe performance and long service life of the anchor.

Environmental conditions affect the material and coating selection of the fixing element. Humidity, chemical environments, and external factors are especially important in determining corrosion resistance.

The base material refers to the type of surface to which the anchor will be applied. Different structural materials such as concrete, solid masonry, or hollow masonry may require different anchor solutions. The type and direction of load are also important criteria affecting anchor selection. Static or dynamic loads, as well as tension, shear, or combined loads, determine anchor performance.

Anchor spacing and edge distances must comply with the minimum values specified to prevent damage to the base material. In addition, the selected anchor system must have sufficient capacity to safely carry the loads that may occur in the application.
During installation, anchor embedment depth and installation instructions must also be taken into account to ensure safe application.

Anchor Types

Torque-Controlled Expansion Anchor

In this anchor type, loads are transferred to the structural element through the friction between the anchor body and the surface of the drilled hole. As a result of the movement of the cone or wedge element inside the anchor, the body expands and the anchor is securely fixed within the structure.

Deformation-Controlled Expansion Anchor

In this system, the torque applied to the bolt or nut pulls the conical part into the expansion sleeve. This movement causes the anchor to expand and creates a secure fixing within the structure.

Base Material

For the correct anchor selection, the properties of the base material to which it will be applied must be considered. Correct identification of the surface is important to ensure that the anchor is installed safely and performs reliably under load.
Concrete is a construction material composed of cement, aggregate, and water. It generally has high compressive strength, although its tensile strength is lower.
Lightweight concrete, on the other hand, is produced using lightweight materials such as pumice or slag instead of conventional aggregates, and therefore it may exhibit lower strength values compared to standard concrete.

EUROTRAY®

EUROTRAY ÇELİK DÜBEL SİSTEMLERİ
EUROTRAY STEEL ANCHOR SYSTEMS

AVANTAJLAR / ADVANTAGES



BAZ2, Çinko Kaplama / BAZ2, Zinc Plated



BAZ2 A4, Paslanmaz Çelik A4 / BAZ2 A4, Stainless Steel A4

EUROTRAY®

- **Çatlaklı ve çatlaksız beton için yüksek yük değerlerine sahip ve sismik etkiler (C1 ve C2) altında kullanıma uygun dübel** / Bolt anchor with high load values for cracked and non-cracked concrete and suitable for use under seismic action (C1 and C2)
- **Küçük kenar ve eksen mesafelerinde dahi yüksek yük taşıma kapasitesi sağlar; zor montaj koşullarında da güvenilir performans sunar** / High load values even with small edge and axial distances; reliable also in difficult installation situations
- **Hızlı montaj için yerleştirme derinliğini gösteren işaretleme halkası** / Setting depth marking ring for quick installation
- **BAZ2'nin üst kısmında uzunluk işaretlemesi bulunur** / Length marking on top of the BAZ2

ONAYLAR VE SERTİFİKALAR
APPROVALS AND CERTIFICATES

ETA · CE · OPTION 1 · R 120 (see assessment) · M8 - M16 · FIXING seismic C1/C2 · A4 STAINLESS STEEL

UYGUN YAPI MALZEMELERİ
SUITABLE BUILDING MATERIALS

Tam Uygun / Very Suitable

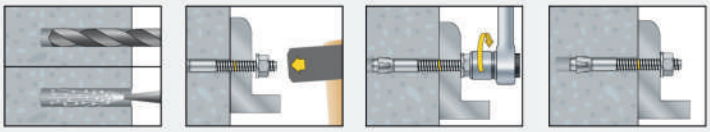


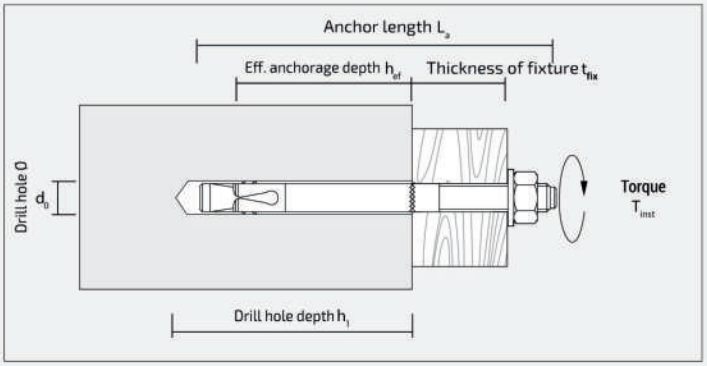
- **Beton / Concrete**

Sınırlı Ölçüde Uygun / Suitable To A Limited Extent

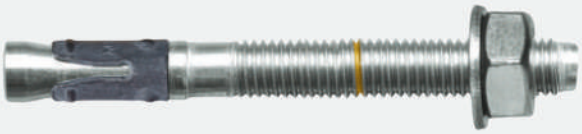
- **Yoğun Doğal Taş (M8'e kadar)**
- Dense Natural Stone (up to M8)

MONTAJ / MOUNTING





EUROTRAY ÇELİK DÜBEL SİSTEMLERİ
EUROTRAY STEEL ANCHOR SYSTEMS



BAZ2, ÇİNKO KAPLAMA / BAZ2, ZINC PLATED

TİP TYPE	ÜRÜN NO ART. NO	d_o (mm)	$h_1 \geq$ (mm)	$h_{ef} \geq$ (mm)	L_a (mm)	$t_{(fix)} \leq$ (mm)	VİDA DİŞİ THREAD	SÜRÜCÜ DRIVE	ETA	ADET / PCS	ADET / PCS
10X90/10	91090BAZ2	10	75	60	90	10	M10	SW17	✓	40	200
10X110/30	910110BAZ2	10	75	60	110	30	M10	SW17	✓	25	125
12X120/24	912120BAZ2	12	85	70	120	24	M12	SW19	✓	20	100
16X140/23	916140BAZ2	16	105	85	140	23	M16	SW24	✓	10	60



A4 STAINLESS STEEL

BAZ2 A4, PASLANMAZ ÇELİK A4 / BAZ2 A4, STAINLESS STEEL A4

TİP TYPE	ÜRÜN NO ART. NO	d_o (mm)	$h_1 \geq$ (mm)	$h_{ef} \geq$ (mm)	L_a (mm)	$t_{(fix)} \leq$ (mm)	VİDA DİŞİ THREAD	SÜRÜCÜ DRIVE	ETA	ADET / PCS	ADET / PCS
10X90/10 A4	91090BAZ2-A4	10	75	60	90	10	M10	SW17	✓	40	200
10X110/30 A4	910110BAZ2-A4	10	75	60	110	30	M10	SW17	✓	25	125
12X120/24 A4	912120BAZ2-A4	12	85	70	120	24	M12	SW19	✓	20	100
16X140/23 A4	916140BAZ2-A4	16	105	85	140	23	M16	SW24	✓	10	50

EUROTRAY ÇELİK DÜBEL SİSTEMLERİ
EUROTRAY STEEL ANCHOR SYSTEMS

MONTAJ ÖLÇÜLERİ / INSTALLATION PARAMETERS

BAZ2 ÖLÇÜSÜ / BAZ2 SIZE		M10		M12	M16
		BAZ2 ÇİNKO KAPLAMA BAZ2 ZİNC PLATED	BAZ2 A4		
SIKMA TORKU / TORQUE	T_{inst} [Nm]	40	30	60	100
ANAHTAR AĞZI / WIDTH ACROSS FLATS	SW [mm]	17	17	19	24
Ø BAĞLANTI PARÇASINDAKİ BOŞLUK DELİĞİ / Ø OF CLEARANCE HOLE IN FIXTURE	d_f [mm]	12	12	14	18
PUL DIŞ Ø × KALINLIK / WASHER OUTER Ø × THICKNESS	(mm)	21X2.0	21X2.0	24X2.5	30X3.0

EKSEN ARALIĞI VE KENAR MESAFESİ / SPACING AND EDGE DISTANCE

BAZ2 ÖLÇÜSÜ / BAZ2 SIZE		M10		M12		M16	
		BAZ2 ÇİNKO KAPLAMA BAZ2 ZİNC PLATED	BAZ2 A4	BAZ2 ÇİNKO KAPLAMA BAZ2 ZİNC PLATED	BAZ2 A4	BAZ2 ÇİNKO KAPLAMA BAZ2 ZİNC PLATED	BAZ2 A4
ETKİLİ ANKRAJ DERİNLİĞİ EFFECTIVE ANCHORAGE DEPTH	h_ef [mm]	60	60	70	70	85	85
MİNİMUM KENAR MESAFESİ MINIMUM EDGE DISTANCE	c_{min} [mm]	45	52	55	62	70	75
MİNİMUM EKSEN ARALIĞI MINIMUM SPACING	s_{min} [mm]	40	47	60	57	65	75
KARAKTERİSTİK KENAR MESAFESİ CHARACTERISTIC EDGE DISTANCE	c^{cr} [mm]	90	90	105	105	128	128
KARAKTERİSTİK EKSEN ARALIĞI CHARACTERISTIC SPACING	s^{cr} [mm]	180	180	210	210	255	255
YAPI ELEMANININ MİNİMUM KALINLIĞI MIN. THICKNESS OF STRUCTURAL PART	h_{min} [mm]	90	120	105	140	130	170

- **Karakteristik eksen aralığı veya kenar mesafesinin (c^{cr} or s^{cr}) altına düşülmesi durumunda yük değerleri azaltılmalıdır. h_{min}, s_{min} and c_{min} değerlerine uyulmalıdır.**
- If underrun the char. spacing or edge distance (c^{cr} or s^{cr}) the loads must be reduced. h_{min}, s_{min} and c_{min} must be observed..

YÜKLER / LOADS

BAZ2 ÖLÇÜSÜ / BAZ2 SIZE BAZ2 TİPİ / BAZ2 TYPE		M10		M12		M16	
		BAZ2 ÇİNKO KAPLAMA BAZ2 ZİNC PLATED	BAZ2 A4	BAZ2 ÇİNKO KAPLAMA BAZ2 ZİNC PLATED	BAZ2 A4	BAZ2 ÇİNKO KAPLAMA BAZ2 ZİNC PLATED	BAZ2 A4
EKSEN ARALIĞI VE KENAR MESAFESİ ETKİSİ OLMAKSIZIN TEK ANKRAJ İÇİN İZİN VERİLEN ÇEKME YÜKLERİ[1,2] PERMISSIBLE TENSION LOADS FOR SINGLE ANCHOR WITHOUT INFLUENCE OF SPACING AND EDGE DISTANCE[1,2]							
ÇATLAKLI BETON C20/25[3] İÇİN IN CRACKED CONCRETE C20/25[3]	N^z_{ul} [kN]	5.2	6.7	7.1	7.5	12.9	10.7
ÇATLAKSIZ BETON C20/25[3] İÇİN IN NON-CRACKED CONCRETE C20/25[3]	N^z_{ul} [kN]	8.6	7.6	13.3	8.7	16.2	15.3
EKSEN ARALIĞI VE KENAR MESAFESİ ETKİSİ OLMAKSIZIN TEK ANKRAJ İÇİN İZİN VERİLEN KESME YÜKLERİ[1,2] PERMISSIBLE SHEAR LOADS FOR SINGLE ANCHOR WITHOUT INFLUENCE OF SPACING AND EDGE DISTANCE[1,2]							
ÇATLAKLI BETON C20/25 İÇİN IN CRACKED CONCRETE C20/25	V^z_{ul} [kN]	9.9	10.8	14.5	15.7	25.7	25.7
ÇATLAKSIZ BETON C20/25 İÇİN IN NON-CRACKED CONCRETE C20/25	V^z_{ul} [kN]	9.9	10.8	14.5	15.7	26.9	31.4
İZİN VERİLEN EĞİLME MOMENTİ PERMISSIBLE BENDING MOMENT	M^z_{ul} [Nm]	25.9	29.9	44.9	52.4	114.2	133.2

- **Yük değerleri, ETA değerlendirmesine göre dayanımlar için kısmi güvenlik katsayılarını ve etkiler için γF = 1,4 kısmi güvenlik katsayısını içerir. Yük değerleri, donatı aralığının S ≥ 15 cm olması durumunda veya alternatif olarak donatı çapı ds ≤ 10 mm ile birlikte donatı aralığının S ≥ 10 cm olması durumunda geçerlidir.**
- Load figures include the resistances' partial safety factors as per ETA assessment and a partial safety factor on the action of γF = 1.4. Load figures apply for a rebar spacing S ≥ 15 cm or alternatively for a rebar spacing S ≥ 10 cm in combination with a rebar diameter of ds ≤ 10 mm.
- **Daha yüksek beton dayanımlarında (C50/60'a kadar) değerler maksimum %58'e kadar artmaktadır.**
- For higher concrete strengths up to C50/60 the values increase by max. 58%.

EUROTRAY ÇELİK DÜBEL SİSTEMLERİ
EUROTRAY STEEL ANCHOR SYSTEMS

AVANTAJLAR / ADVANTAGES



BAZ, Çinko Kaplama / BAZ, Zinc Plated



BAZ A4, A4 Paslanmaz Çelik / BAZ A4, Stainless Steel A4



BAZ HD, Sıcak Daldırma Galvanizli / BAZ HD, Hot-dip Galvanized

- **Çatlaklı ve çatlaksız beton için iyi yük değerlerine sahip olup sismik etkiler (C1) altında kullanıma uygundur.**
- Bolt anchor with good load values for cracked and non-cracked concrete and suitable for use under seismic action (C1)
- **Küçük kenar ve eksen mesafelerinde dahi yüksek yük değerleri sağlar; zor montaj koşullarında da güvenilir performans sunar.**
- High load values even with small edge and axial distances; reliable also in difficult installation situations
- **Farklı malzemelerde geniş ürün yelpazesi bulunur.**
- Large assortment in several materials

ONAYLAR VE SERTİFİKALAR
APPROVALS AND CERTIFICATES

ETA · CE · OPTION 1 · R 120 (see assessment) · M8 - M16 · FIXING seismic C1 · A4 STAINLESS STEEL

UYGUN YAPI MALZEMELERİ
SUITABLE BUILDING MATERIALS

Tam Uygun / Very Suitable

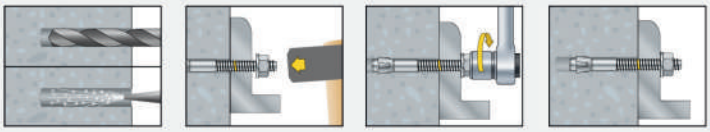


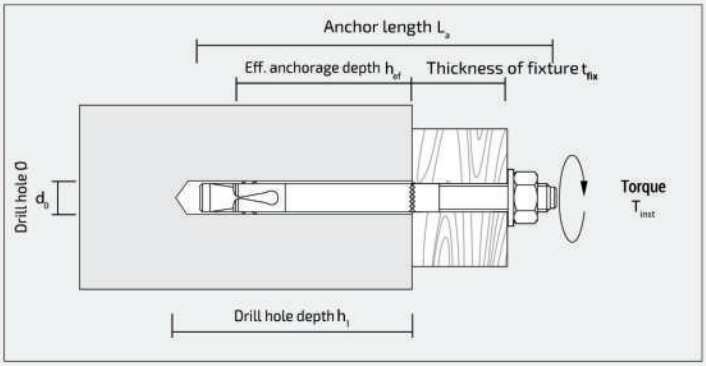
- **Beton / Concrete** (ETA)

Sınırlı Ölçüde Uygun / Suitable To A Limited Extent

- **Yoğun Doğal Taş (M8'e kadar)**
- Dense Natural Stone (up to M8)

MONTAJ / MOUNTING





EUROTRAY ÇELİK DÜBEL SİSTEMLERİ
EUROTRAY STEEL ANCHOR SYSTEMS



BAZ, ÇİNKO KAPLAMA / BAZ, ZINC PLATED

TİP TYPE	ÜRÜN NO ART. NO	d_o (mm)	$h_1 \geq$ (mm)	$h_{ef} \geq$ (mm)	L_a (mm)	$t_{fix} \leq$ (mm)	VİDA DİŞİ THREAD	ETA	ADET / PCS	ADET / PCS
10X92/10	91092BAZ	10	75	60	92	10	M10	✓	40	200
10X132/50	910132BAZ	10	75	60	132	50	M10	✓	25	125
12X118/20	912118BAZ	12	90	70	118	20	M12	✓	20	100
16X138/20	916138BAZ	16	110	85	138	20	M16	✓	10	60



A4 STAINLESS STEEL

BAZ A4, A4 PASLANMAZ ÇELİK / BAZ A4, STAINLESS STEEL A4

TİP TYPE	ÜRÜN NO ART. NO	d_o (mm)	$h_1 \geq$ (mm)	$h_{ef} \geq$ (mm)	L_a (mm)	$t_{fix} \leq$ (mm)	VİDA DİŞİ THREAD	ETA	ADET / PCS	ADET / PCS
10X102/20 A4	910102BAZ-A4	10	75	60	102	20	M10	✓	25	125
10X112/30 A4	910112BAZ-A4	10	75	60	112	30	M10	✓	25	125
12X118/20 A4	912118BAZ-A4	12	90	70	118	20	M12	✓	20	100
16X138/20 A4	916138BAZ-A4	16	110	85	138	20	M16	✓	10	50



BAZ HD, SICAK DALDIRMA GALVANİZLİ / BAZ HD, HOT-DIP GALVANIZED

TİP TYPE	ÜRÜN NO ART. NO	d_o (mm)	$h_1 \geq$ (mm)	$h_{ef} \geq$ (mm)	L_a (mm)	$t_{fix} \leq$ (mm)	VİDA DİŞİ THREAD	ETA	ADET / PCS	ADET / PCS
10X92/10 HD	91092BAZ-HD	10	75	60	92	10	M10	✓	40	200
10X112/30 HD	910112BAZ-HD	10	75	60	112	30	M10	✓	25	125
12X118/20 HD	912118BAZ-HD	12	90	70	118	20	M12	✓	20	100
16X138/20 HD	916138BAZ-HD	16	110	85	138	20	M16	✓	10	50

MONTAJ ÖLÇÜLERİ / INSTALLATION PARAMETERS

BAZ2 ÖLÇÜSÜ / BAZ2 SIZE		M10	M12 BAZ BAZ HD	M12 BAZ2 A4 BAZ HCR	M16
SIKMA TORKU / TORQUE	**$T_{(inst)}$ [Nm]**	35	50	70	120
ANAHTAR AĞZI / WIDTH ACROSS FLATS	**SW [mm]**	17	19	19	24
Ø BAĞLANTI PARÇASINDAKİ BOŞLUK DELİĞİ / Ø OF CLEARANCE HOLE IN FIXTURE	**d_f [mm]**	12	14	14	18
PUL DIŞ Ø × KALINLIK / WASHER OUTER Ø × THICKNESS	**(mm)**	21X2.0	24X2.5		30X3.0

EKSEN ARALIĞI VE KENAR MESAFESİ / SPACING AND EDGE DISTANCE

BAZ2 ÖLÇÜSÜ / BAZ2 SIZE		M10	M12	M16
ETKİLİ ANKRAJ DERİNLİĞİ EFFECTIVE ANCHORAGE DEPTH	**h_{ef} [mm]**	60	70	85
MİNİMUM KENAR MESAFESİ MINIMUM EDGE DISTANCE	**c_{min} [mm]** **for S ≥ [mm]**	50 100	55 145	85 150
MİNİMUM EKSEN ARALIĞI MINIMUM SPACING	**s_{min} [mm]** **for S ≥ [mm]**	55 80	60 90	70 120
KARAKTERİSTİK KENAR MESAFESİ CHARACTERISTIC EDGE DISTANCE	**c^{cr} [mm]**	90	105	128
KARAKTERİSTİK EKSEN ARALIĞI CHARACTERISTIC SPACING	**s^{cr} [mm]**	180	210	255
YAPI ELEMANININ MİNİMUM KALINLIĞI MIN. THICKNESS OF STRUCTURAL PART	**h_{min} [mm]**	120	140	170

- **Karakteristik eksen aralığı veya kenar mesafesinin (c^{cr} or s^{cr}) altına düşülmesi durumunda yük değerleri azaltılmalıdır. h_{min}, s_{min} and c_{min} eğerlerine uyulmalıdır.**
- If underrun the char. spacing or edge distance (c^{cr} or s^{cr}) the loads must be reduced. h_{min}, s_{min} and c_{min} must be observed..

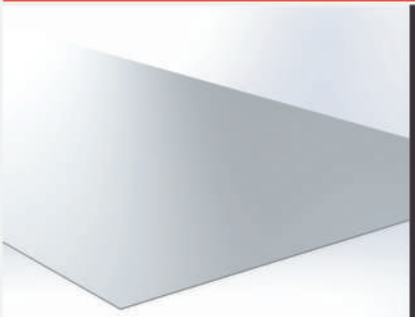
YÜKLER / LOADS

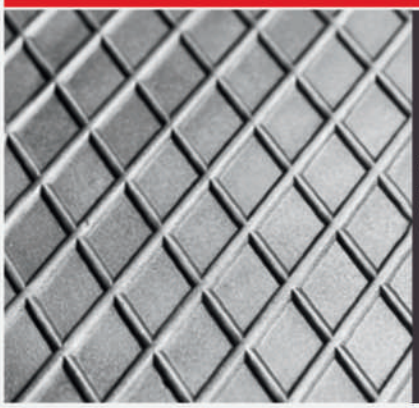
BAZ2 ÖLÇÜSÜ / BAZ2 SIZE BAZ2 TİPİ / BAZ2 TYPE		M10 BAZ2 ÇİNKO KAPLAMA BAZ HD BAZ2 ZİNC PLATED BAZ HD	M10 BAZ2 A4 BAZ HCR	M12 BAZ2 ÇİNKO KAPLAMA BAZ HD BAZ2 ZİNC PLATED BAZ HD	M12 BAZ2 A4 BAZ HCR	M16 BAZ2 ÇİNKO KAPLAMA BAZ HD BAZ2 ZİNC PLATED BAZ HD	M16 BAZ2 A4 BAZ HCR
EKSEN ARALIĞI VE KENAR MESAFESİ ETKİSİ OLMAKSIZIN TEK ANKRAJ İÇİN İZİN VERİLEN ÇEKME YÜKLERİ[1,2] PERMISSIBLE TENSION LOADS FOR SINGLE ANCHOR WITHOUT INFLUENCE OF SPACING AND EDGE DISTANCE[1,2]							
ÇATLAKLI BETON C20/25[3] İÇİN IN CRACKED CONCRETE C20/25[3]	**N_{per} [kN]**	3.6	3.6	4.8	4.8	9.5	9.5
ÇATLAKSIZ BETON C20/25[3] İÇİN IN NON-CRACKED CONCRETE C20/25[3]	**N_{per} [kN]**	6.3	6.3	7.9	7.9	16.7	16.7
EKSEN ARALIĞI VE KENAR MESAFESİ ETKİSİ OLMAKSIZIN TEK ANKRAJ İÇİN İZİN VERİLEN KESME YÜKLERİ[1,2] PERMISSIBLE SHEAR LOADS FOR SINGLE ANCHOR WITHOUT INFLUENCE OF SPACING AND EDGE DISTANCE[1,2]							
ÇATLAKLI BETON C20/25 İÇİN IN CRACKED CONCRETE C20/25	**V_{per} [kN]**	10.3	9.7	13.1	14.3	25.1	25.7
ÇATLAKSIZ BETON C20/25 İÇİN IN NON-CRACKED CONCRETE C20/25	**V_{per} [kN]**	10.3	9.7	13.1	14.3	25.1	26.9
İZİN VERİLEN EĞİLME MOMENTİ PERMISSIBLE BENDING MOMENT	**M_{per} [kN]**	27.4	25.7	41.1	45.1	106.3	114.3

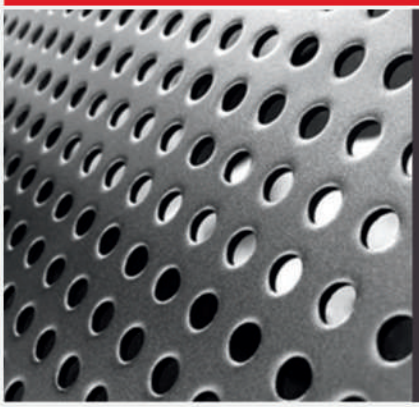
- **Yük değerleri, donatı aralığının S ≥ 15 cm olması durumunda veya alternatif olarak donatı çapı ds ≤ 10 mm ile birlikte donatı aralığının S ≥ 10 cm olması durumunda geçerlidir.**
- Load figures include the resistances' partial safety factors as per ETA assessment and a partial safety factor on the action of γF = 1.4. Load figures apply for a rebar spacing S ≥ 15 cm or alternatively for a rebar spacing S ≥ 10 cm in combination with a rebar diameter of ds ≤ 10 mm.
- **Daha yüksek beton dayanımlarında (C50/60'a kadar) değerler maksimum %31'e kadar artmaktadır.**
- For higher concrete strengths up to C50/60 the values increase by max. 31%.

YASSI ÇELİK ÜRÜN GRUBU
FLAT STEEL PRODUCT GROUP

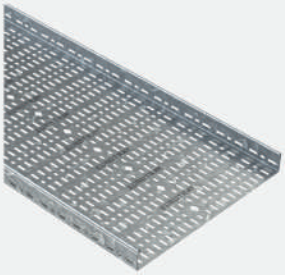
Görsel	Ürün	Malzeme	Grade	Kalınlık	Genişlik
	RULO	Soğuk Haddelenmiş (CR)	DC01/DC03/DC04/ (EN 10130)	0.10 - 3.00 mm	10 - 2000 mm
		Sıcak Haddelenmiş (HR)	S235/350/420/500 (EN 10025)		
		Asitli (HRPO)	DD11/DD13/DD14 (EN 10111)		
		Galvanizli (Z60 - Z600)	DX51 ve fazlası		
		Zink Magnezyum (ZM100-ZM500	HX260 ve fazlası		
		Aluzink (ZA60 - ZA275)	HC200 ve fazlası		
		Alüminyum Sac	EN AW - 1050A/3003/5754		
		Paslanmaz Sac	AISI 304/316L/430		

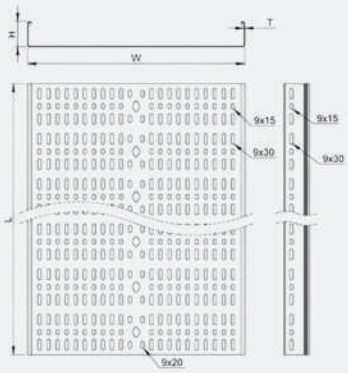
Görsel	Ürün	Malzeme	Grade	Kalınlık	Ölçü	Boy
	PLAKA	Soğuk Haddelenmiş (CR)	DC01/DC03/DC04/ (EN 10130)	0.2 - 4.00 mm	500 - 2000 mm	50 - 6000 mm
		Sıcak Haddelenmiş (HR)	S235/350/420/500 (EN 10025)			
		Asitli (HRPO)	DD11/DD13/DD14 (EN 10111)			
		Galvanizli (Z60 - Z600)	DX51 ve fazlası			
		Zink Magnezyum (ZM100-ZM500	HX260 ve fazlası			
		Aluzink (ZA60 - ZA275)	HC200 ve fazlası			
		Alüminyum Sac	EN AW - 1050A/3003/5754			
		Paslanmaz Sac	AISI 304/316L/430			

Görsel	Ürün	Malzeme	Grade	Kalınlık	Genişlik
	GÖZYAŞI, BAKLAVA DESENLİ SAC	Sıcak Haddelenmiş (HR)	S235/350/420/500 (EN 10025)	1.2 - 16.00 mm	850 - 1.550 mm

Görsel	Ürün	Malzeme	Kalınlık	Genişlik
	DELİKLİ SAC	Alüminyum Rulo	0.30 - 1,00 mm	50 - 1250 mm
		Alüminyum Levha	0.50 - 10,00 mm	100 - 1500 mm
		Sac Rulo	0.30 - 1.00 mm	50 - 1250 mm
		Sac Levha	0.50 - 6.00 mm	100 - 1500 mm

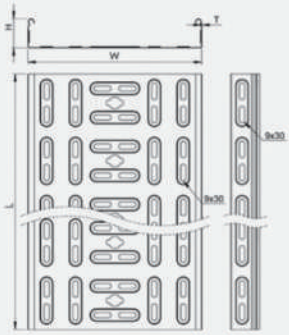
KABLO YÖNETİM DESTEK SİSTEMLERİ
CABLE MANAGEMENT SUPPORT SYSTEMS





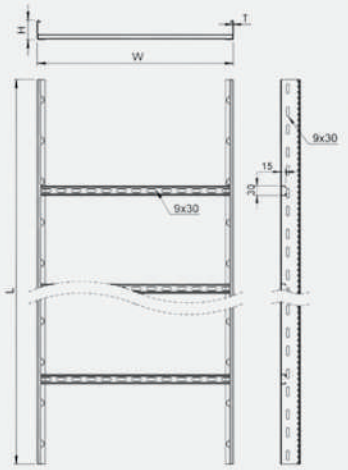
Seri (Series)		EH
Tanım (Description)		Ağır Hizmet Heavy Duty
Kalınlık (Thickness)	mm	0.8 - 2
Yükseklik (Height)	mm	40 - 100
Genişlik (Width)	mm	50 - 600
Kaplama (Coating)		P, SP, HD, E, SS, HD SP, AL, ZM



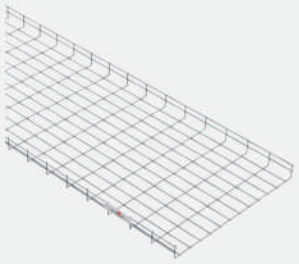


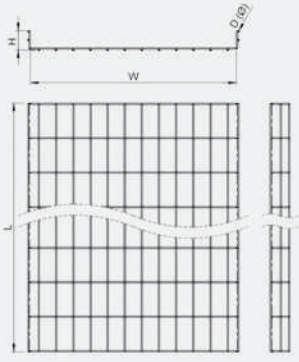
Seri (Series)		EU
Tanım (Description)		Güçlendirilmiş Strenghened
Kalınlık (Thickness)	mm	0.6 - 1.2
Yükseklik (Height)	mm	40 - 100
Genişlik (Width)	mm	100- 600
Kaplama (Coating)		P, SP, HD, E, SS, HD SP, AL, ZM





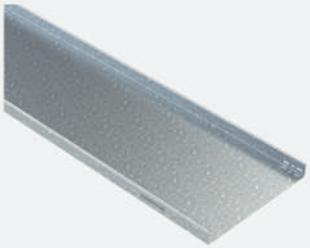
Seri (Series)		EL
Tanım (Description)		Merdiven Ladder
Kalınlık (Thickness)	mm	1.5 - 2
Yükseklik (Height)	mm	40 - 150
Genişlik (Width)	mm	100 - 900
Kaplama (Coating)		P, SP, HD, E, SS, HD SP, AL, ZM

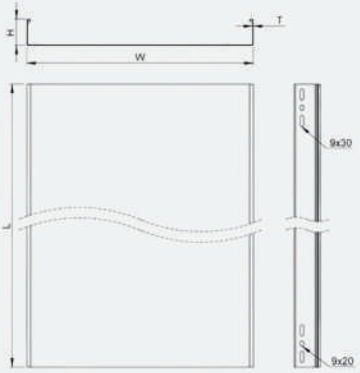




Seri (Series)		ETT
Tanım (Description)		Tel Wire Mesh
Kalınlık (Thickness)	mm	4 - 5
Yükseklik (Height)	mm	35 - 110
Genişlik (Width)	mm	50 - 600
Kaplama (Coating)		P, SP, HD, E, SS, HD SP, AL, ZM

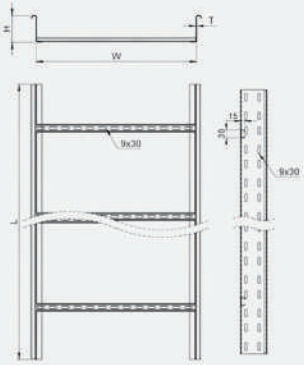
KABLO YÖNETİM DESTEK SİSTEMLERİ
CABLE MANAGEMENT SUPPORT SYSTEMS



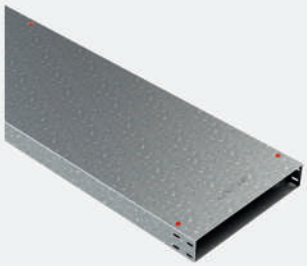


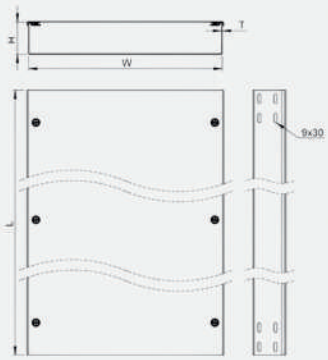
Seri (Series)		EUH
Tanım (Description)		Deliksiz Ağır Hizmet Unperforated Heavy Duty
Kalınlık (Thickness)	mm	0.8 - 2
Yükseklik (Height)	mm	40 - 100
Genişlik (Width)	mm	50 - 600
Kaplama (Coating)		P, SP, HD, E, SS, HD SP, AL, ZM





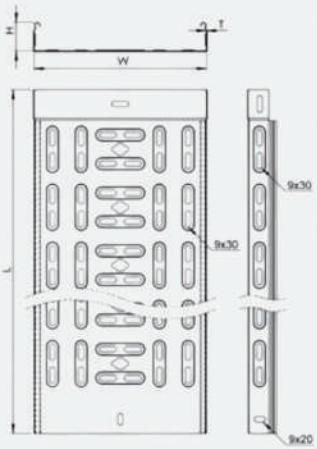
Seri (Series)		ELH
Tanım (Description)		Ağır Hizmet Merdiven Heavy Duty Ladder
Kalınlık (Thickness)	mm	1.5 - 2
Yükseklik (Height)	mm	75 - 150
Genişlik (Width)	mm	100 - 900
Kaplama (Coating)		P, SP, HD, E, SS, HD SP, AL, ZM





Seri (Series)		ER
Tanım (Description)		Trunking
Kalınlık (Thickness)	mm	1.2 - 1.5
Yükseklik (Height)	mm	50 - 150
Genişlik (Width)	mm	50 - 300
Kaplama (Coating)		P, SP, HD, E, SS, HD SP, AL, ZM

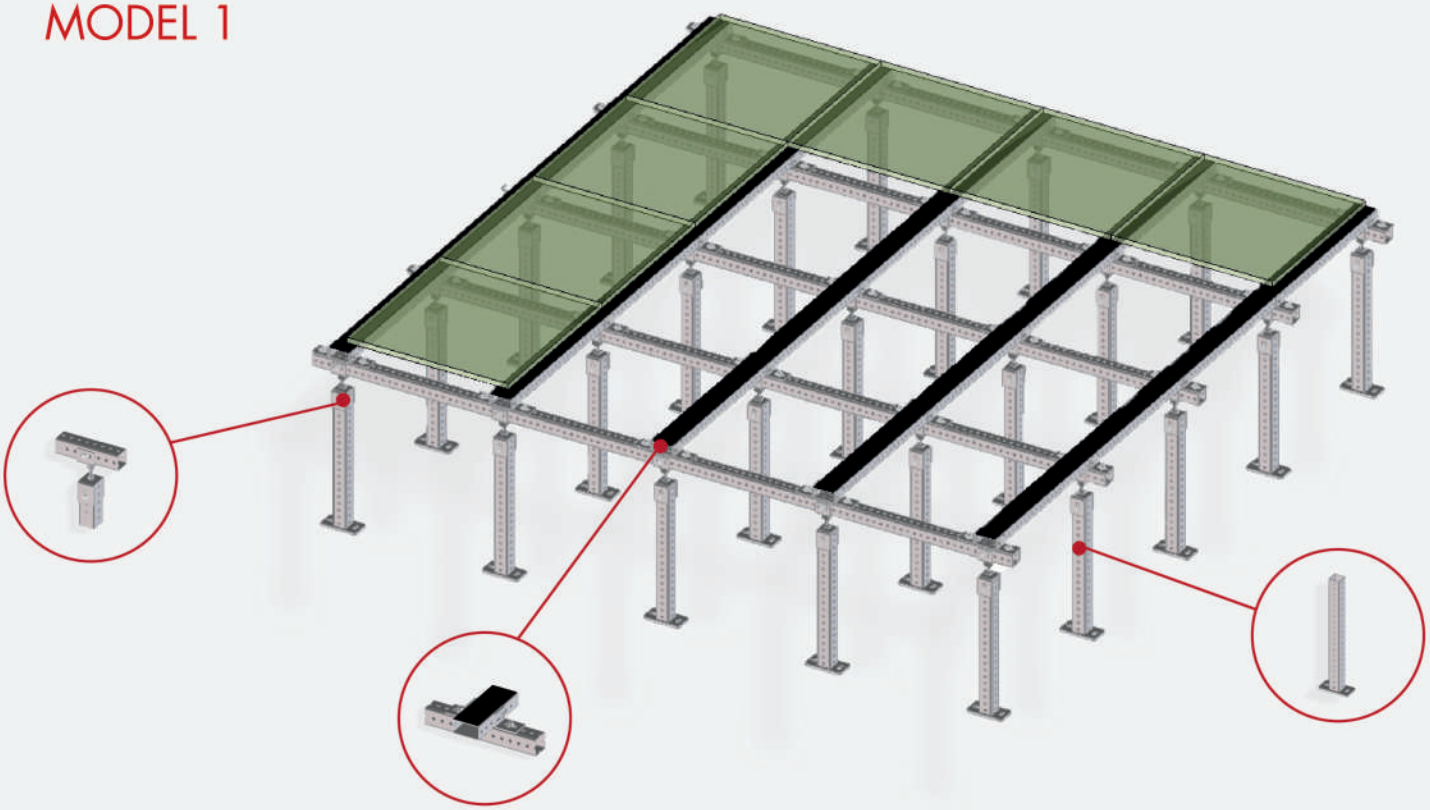




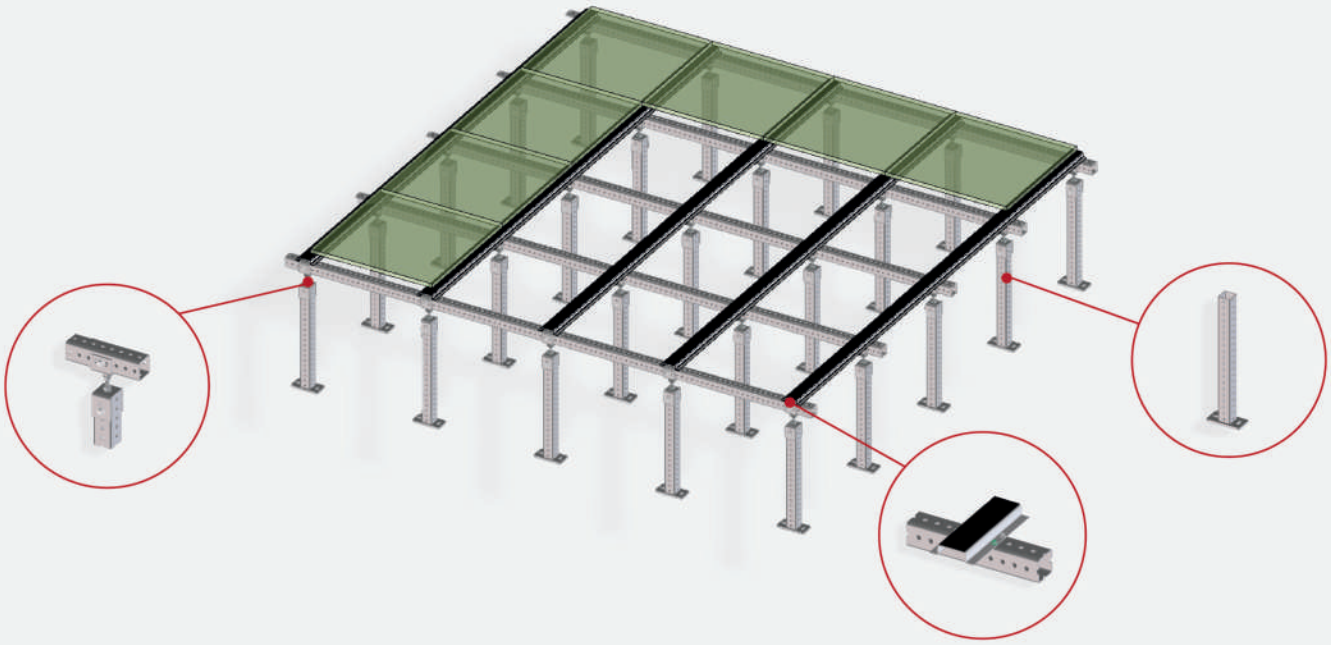
Seri (Series)		EX
Tanım (Description)		Geçmeli Interlocking
Kalınlık (Thickness)	mm	0.6 - 1.2
Yükseklik (Height)	mm	40 - 60
Genişlik (Width)	mm	50 -300
Kaplama (Coating)		P, SP, HD, E, SS, HD SP, AL, ZM

YÜKSELTİLMİŞ DÖŞEME SİSTEMLERİ
RAISED FLOOR SYSTEMS

MODEL 1



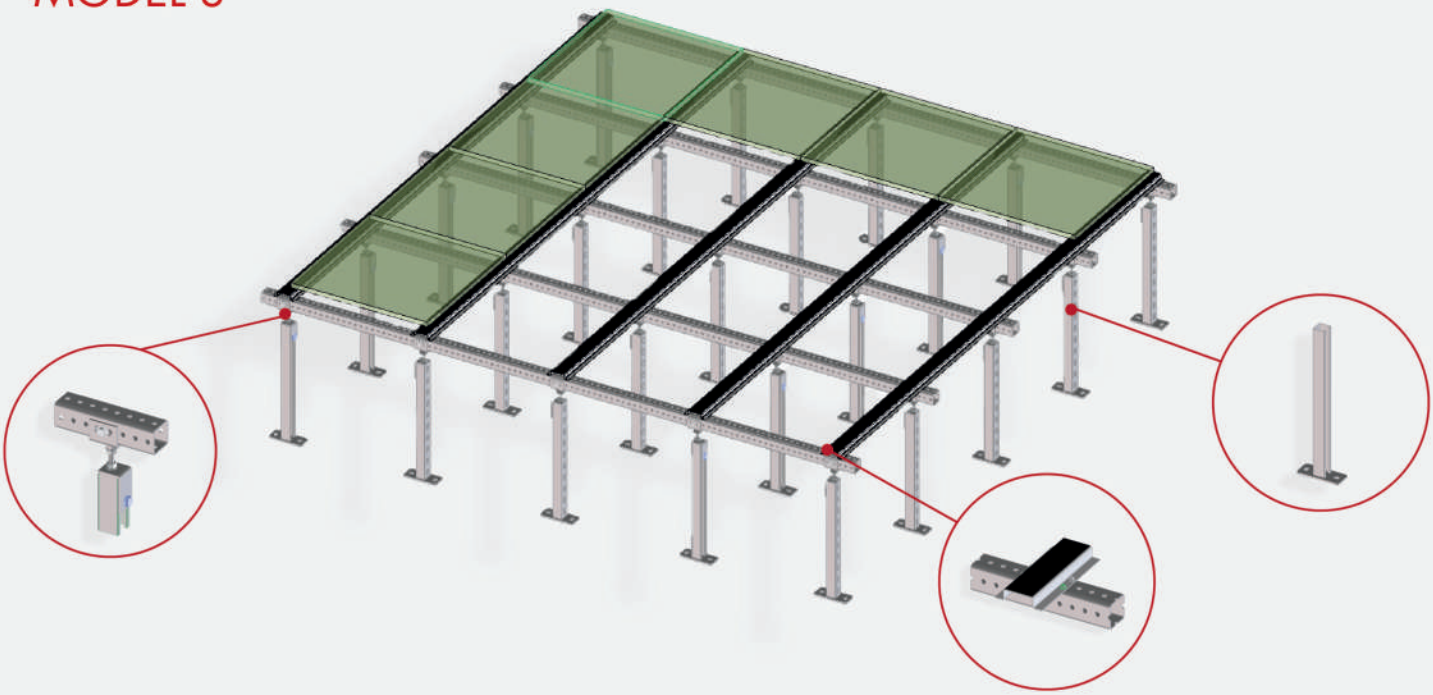
MODEL 2



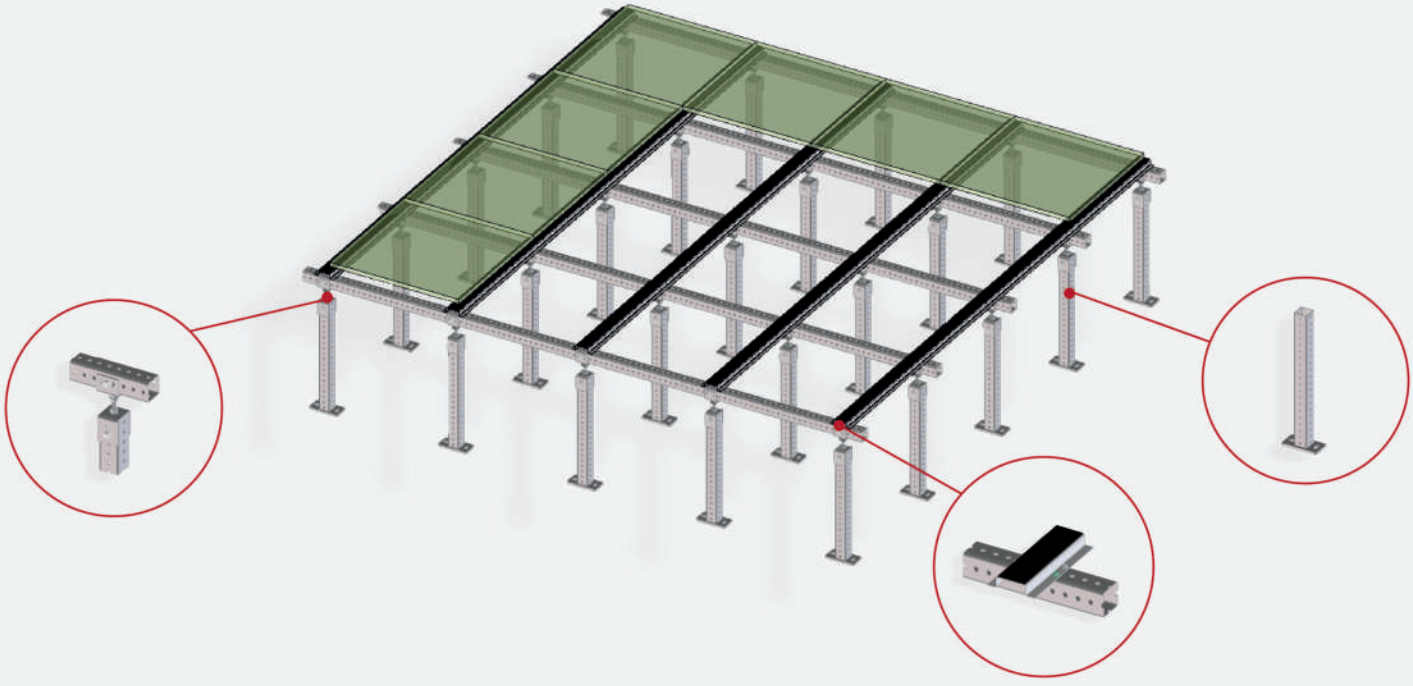
YÜKSELTİLMİŞ DÖŞEME SİSTEMLERİ
RAISED FLOOR SYSTEMS

YÜKSELTİLMİŞ DÖŞEME SİSTEMLERİ
RAISED FLOOR SYSTEMS

MODEL 3

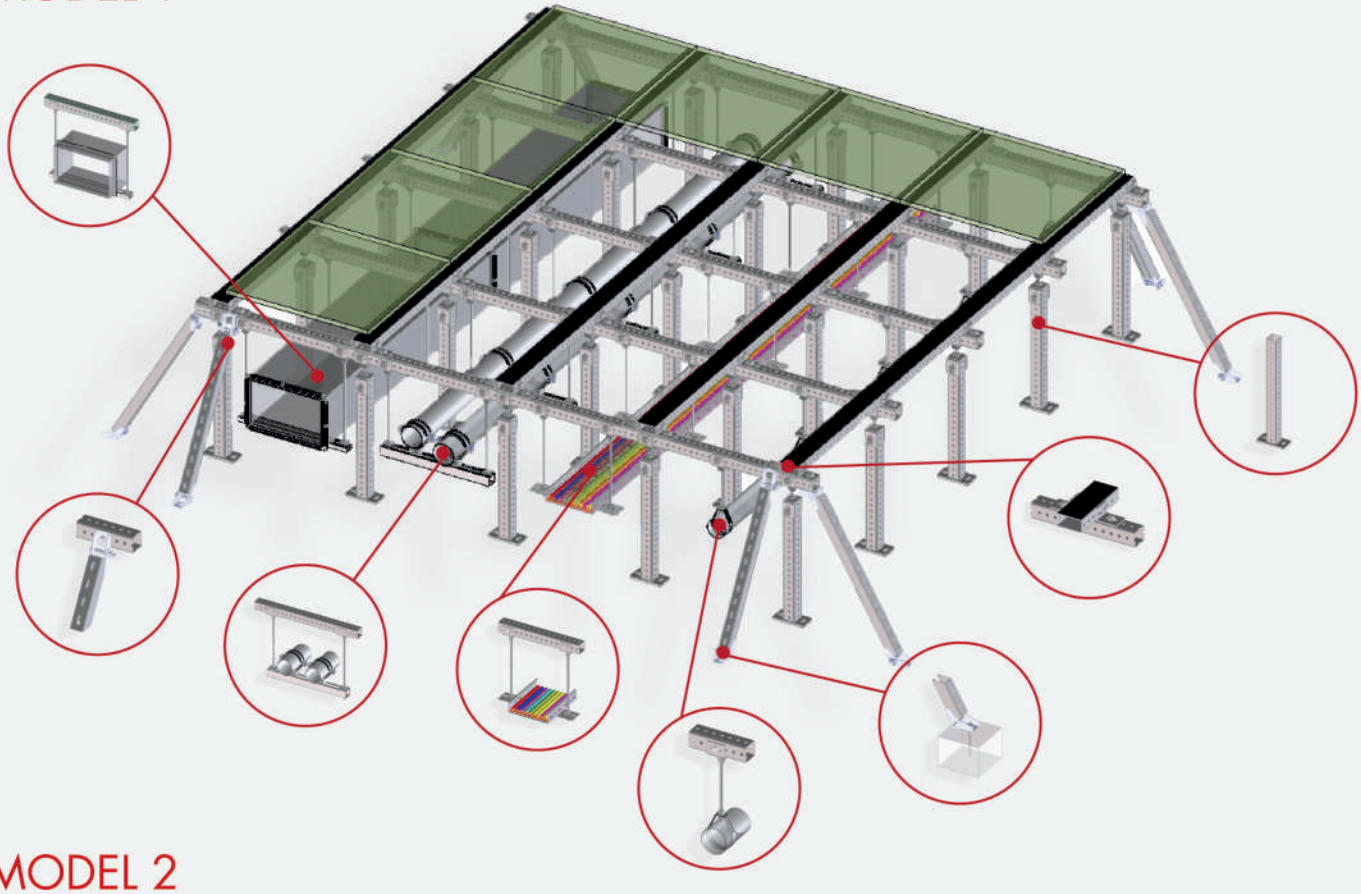


MODEL 4



YÜKSELTİLMİŞ DÖŞEME & MEP TESİSAT SİSTEMİ
RAISED FLOOR & MEP SUPPORT SYSTEMS

MODEL 1

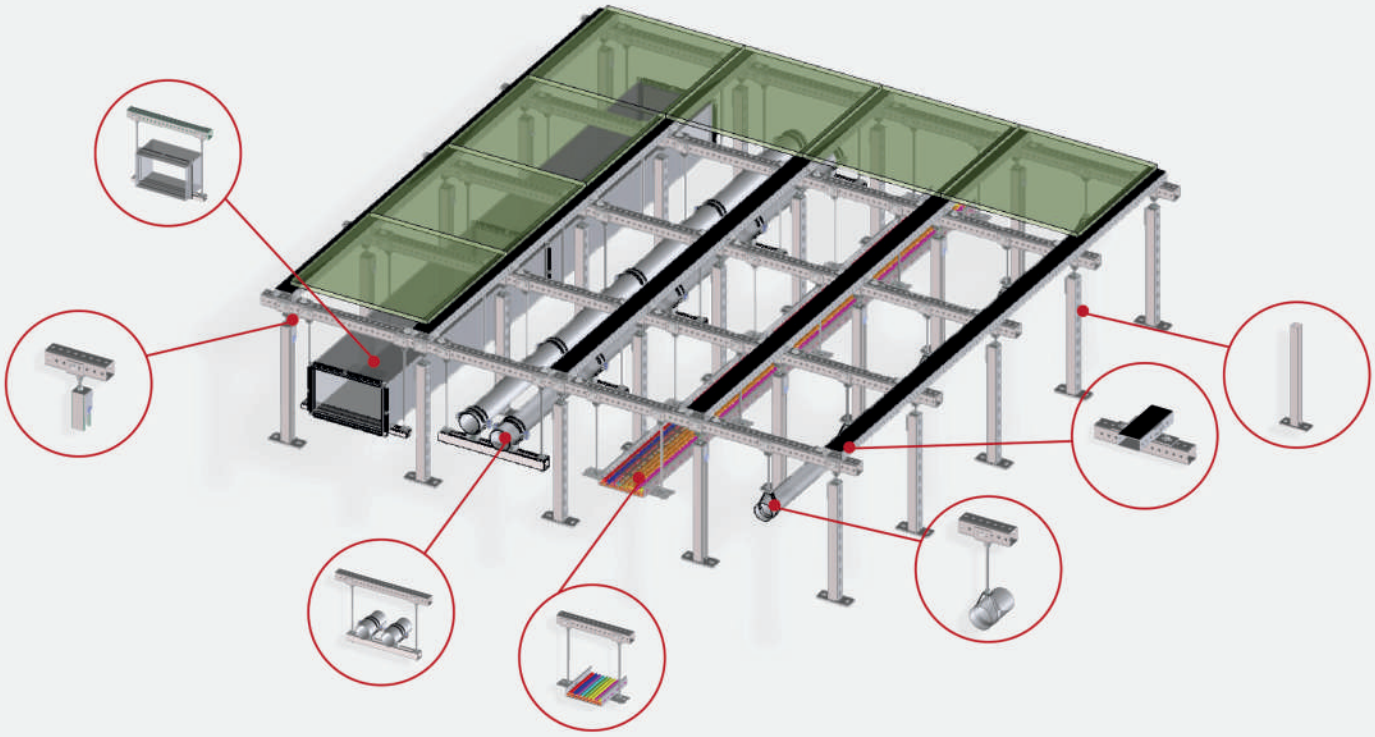


MODEL 2

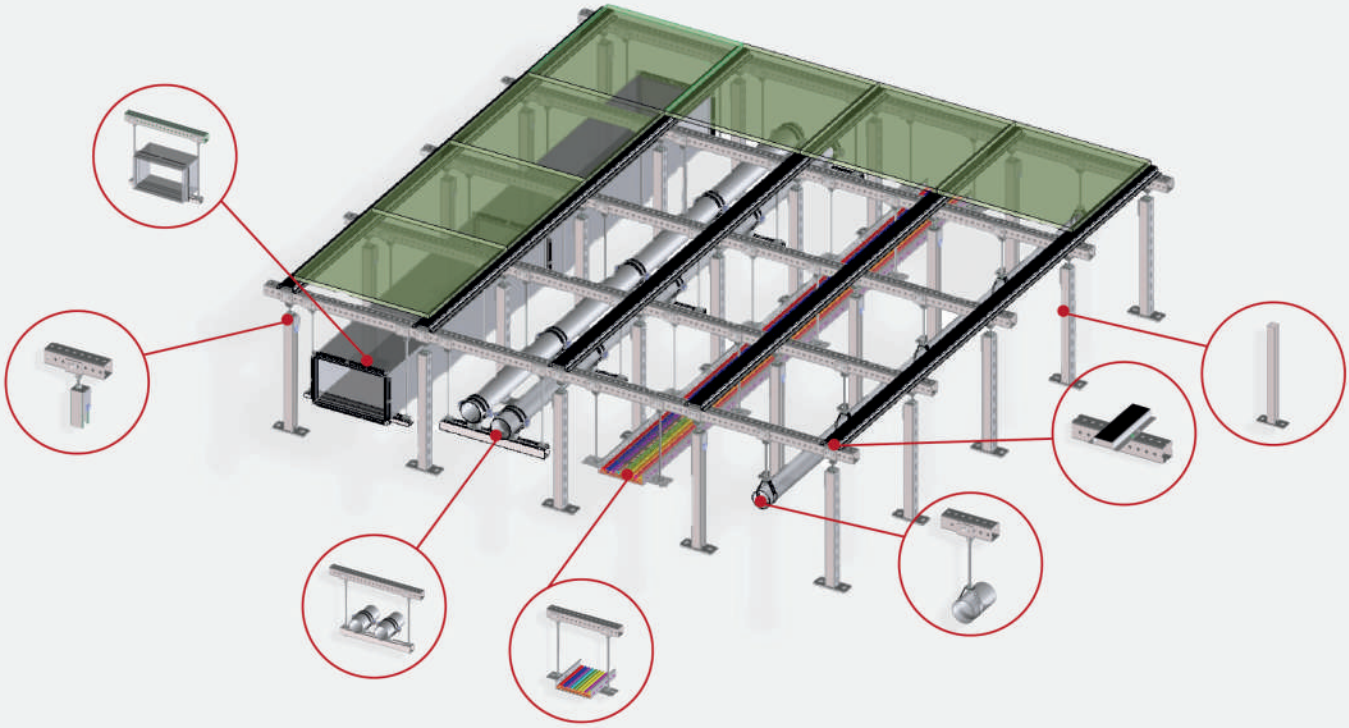


YÜKSELTİLMİŞ DÖŞEME & MEP TESİSAT SİSTEMİ
RAISED FLOOR & MEP SUPPORT SYSTEMS

MODEL 3



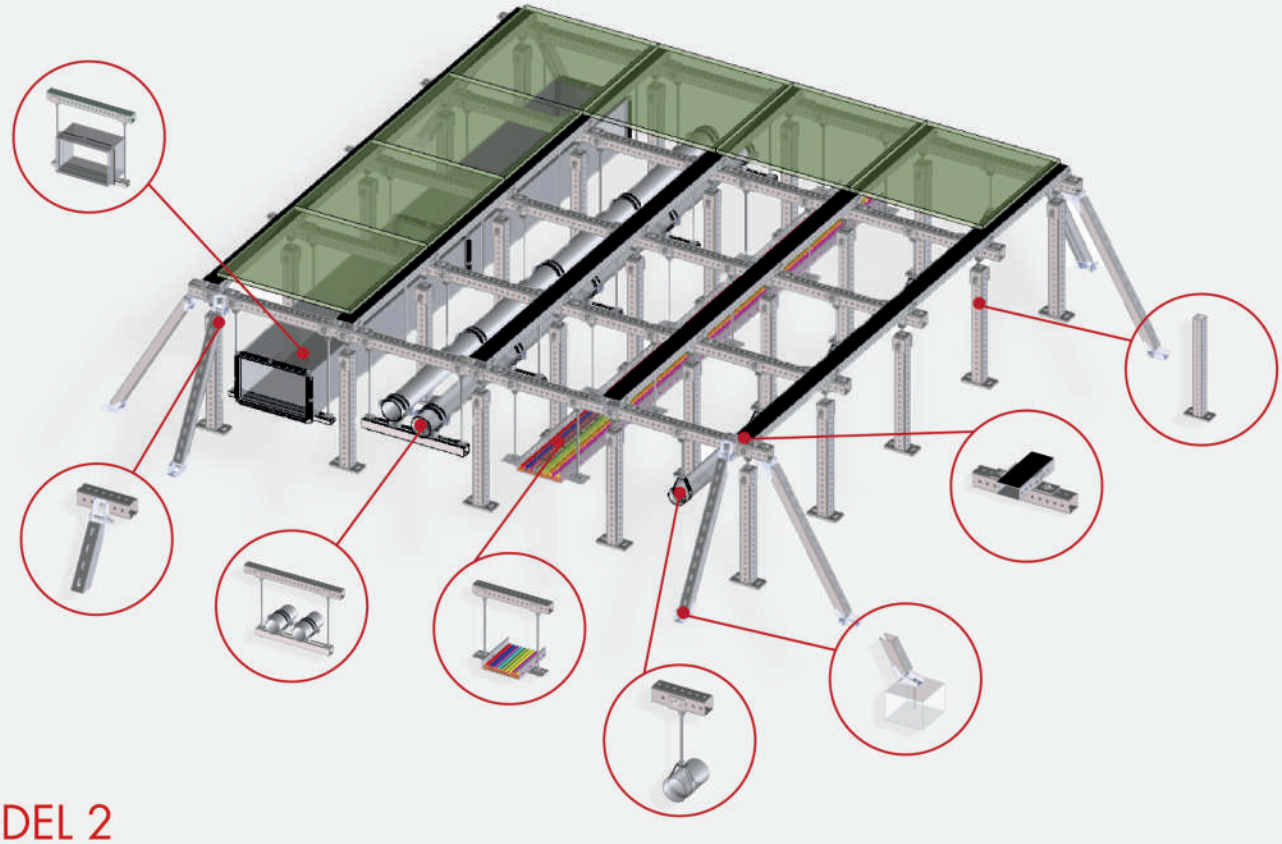
MODEL 4



YÜKSELTİLMİŞ DÖŞEME SİSTEMLERİ
RAISED FLOOR SYSTEMS

YÜKSELTİLMİŞ DÖŞEME & MEP & SİSMİK ÖNLEM
RAISED FLOOR & MEP & SEISMIC RESTRAINT

MODEL 1

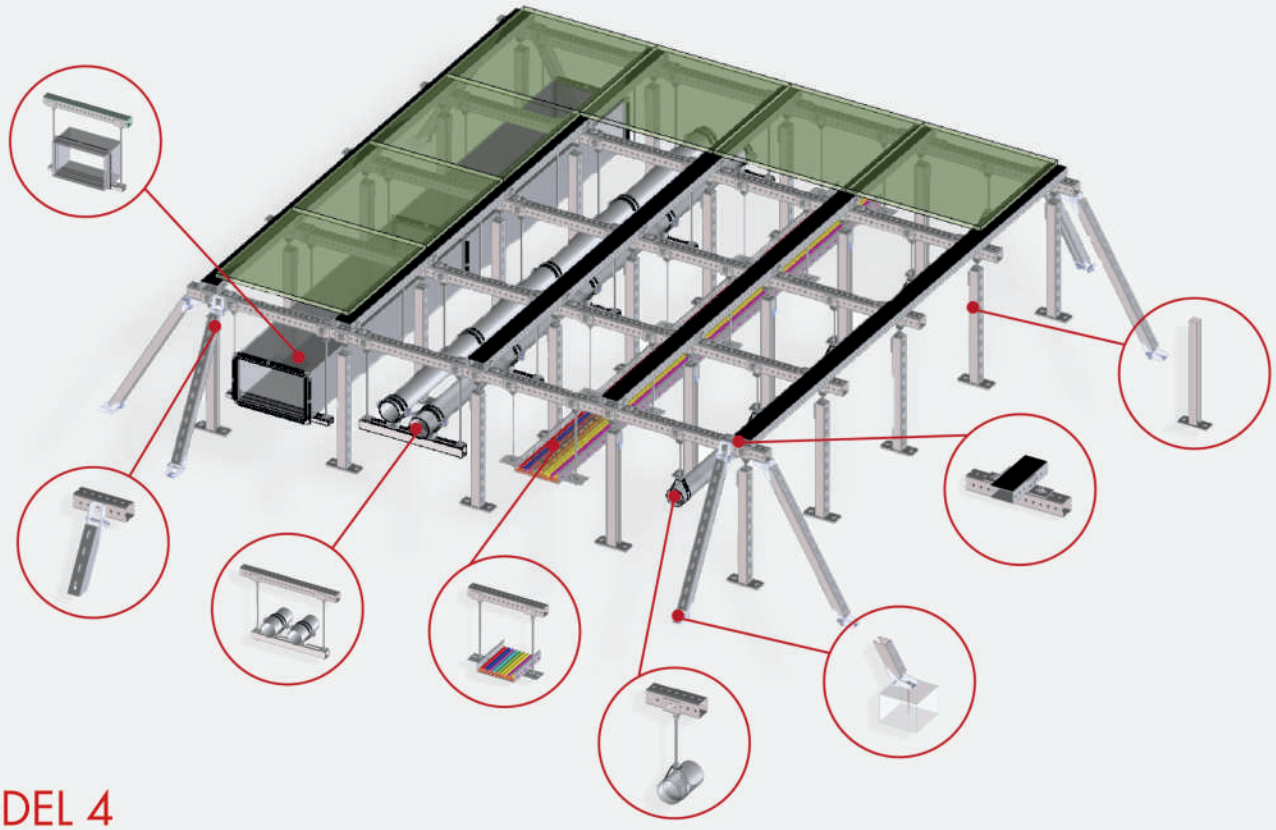


MODEL 2



YÜKSELTİLMİŞ DÖŞEME & MEP & SİSMİK ÖNLEM
RAISED FLOOR & MEP & SEISMIC RESTRAINT

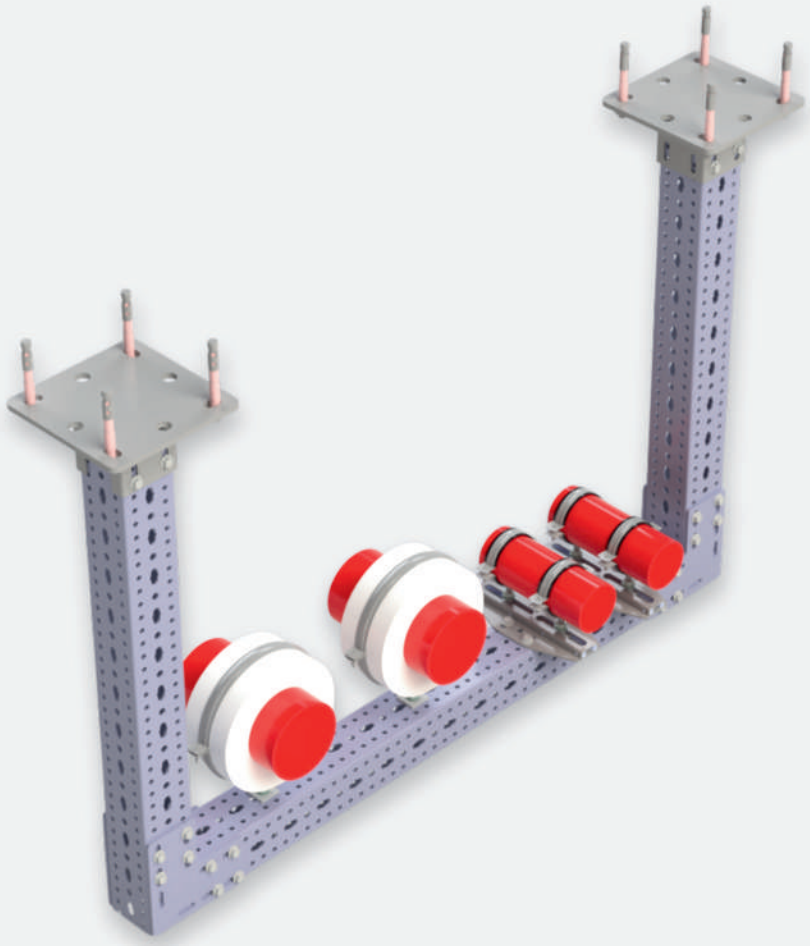
MODEL 3

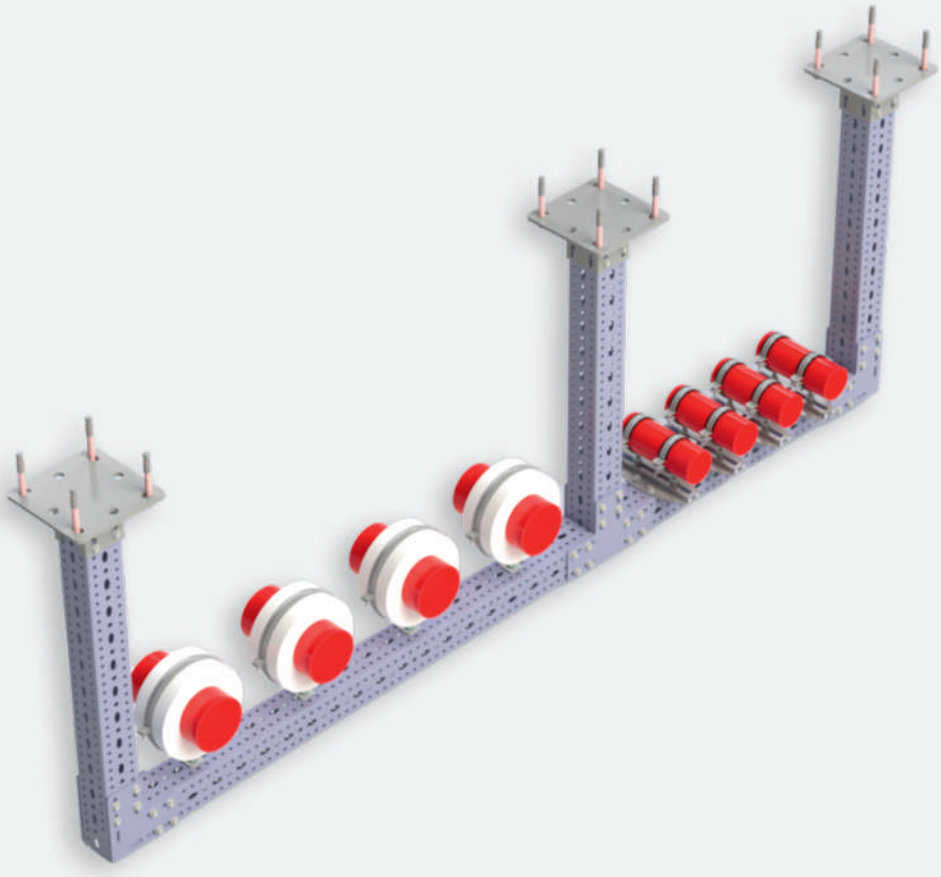


MODEL 4

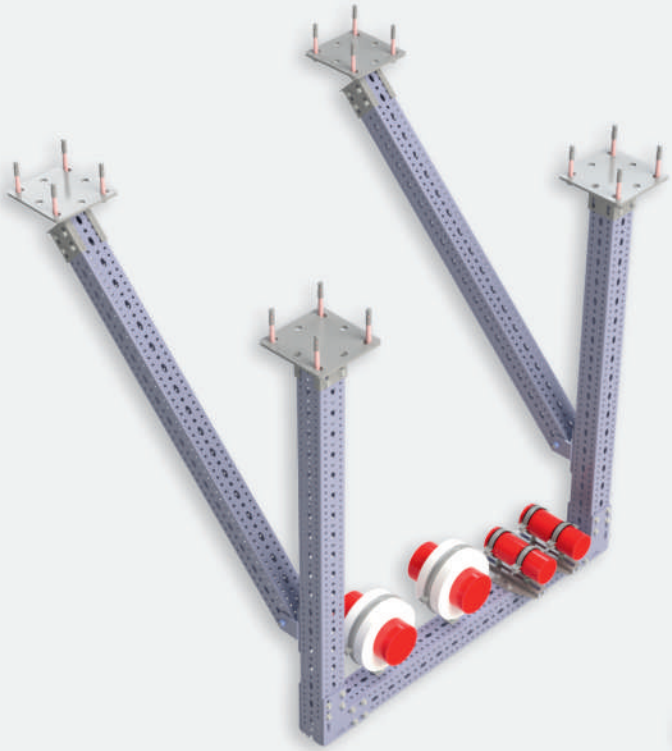


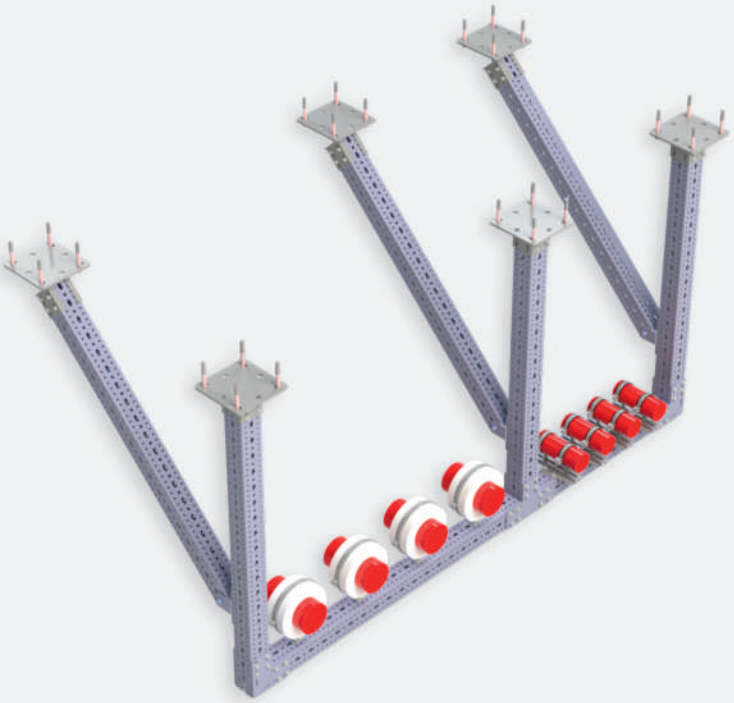
EURO MASTER UYGULAMA ÖRNEKLERİ
APPLICATION EXAMPLES FOR EURO MASTER

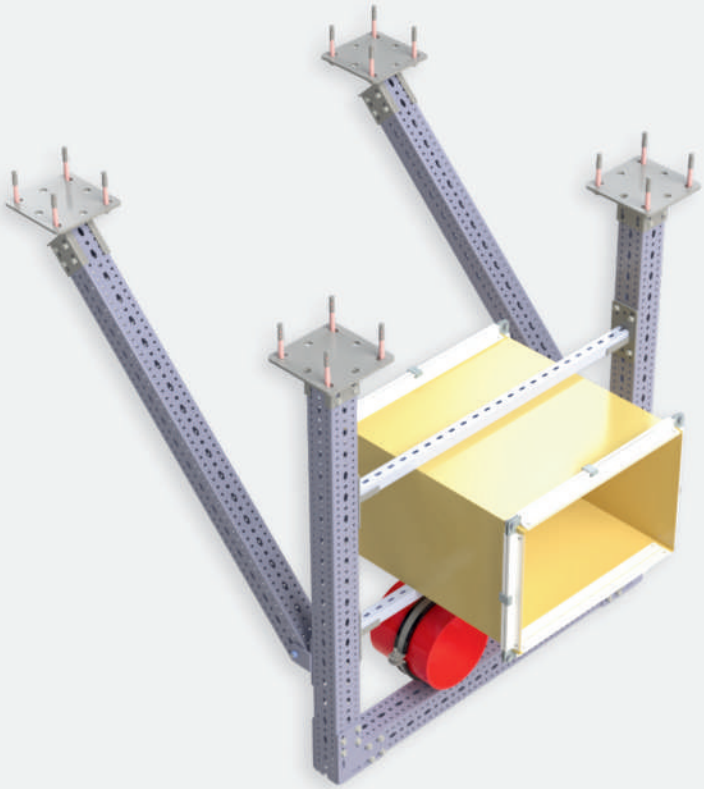




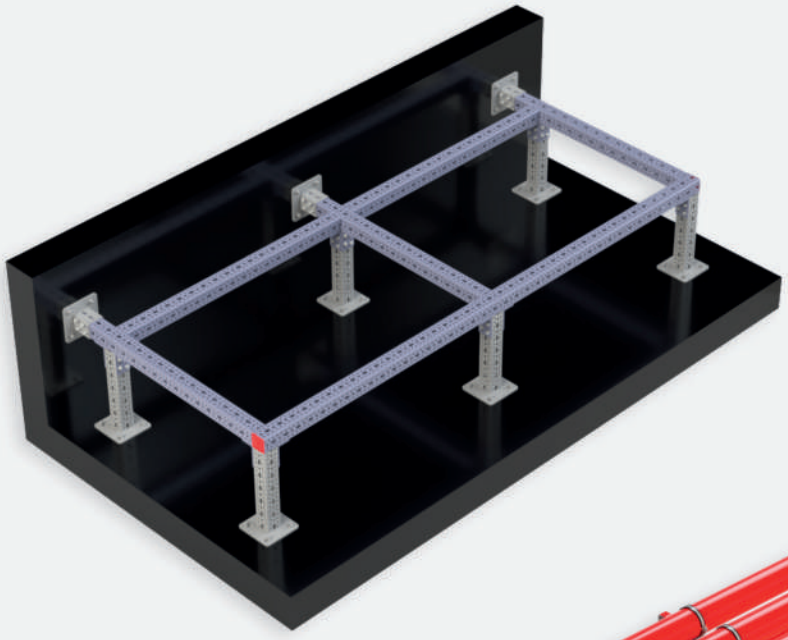
EURO MASTER UYGULAMA ÖRNEKLERİ
APPLICATION EXAMPLES FOR EURO MASTER

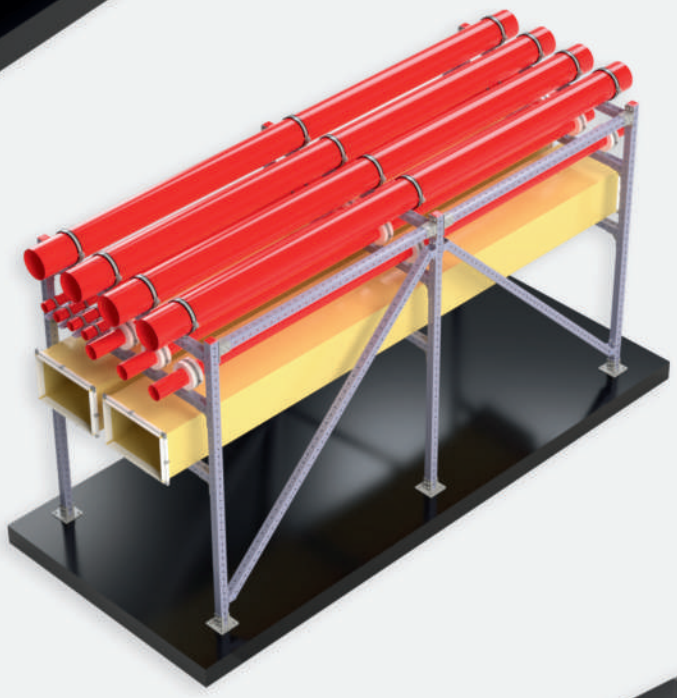


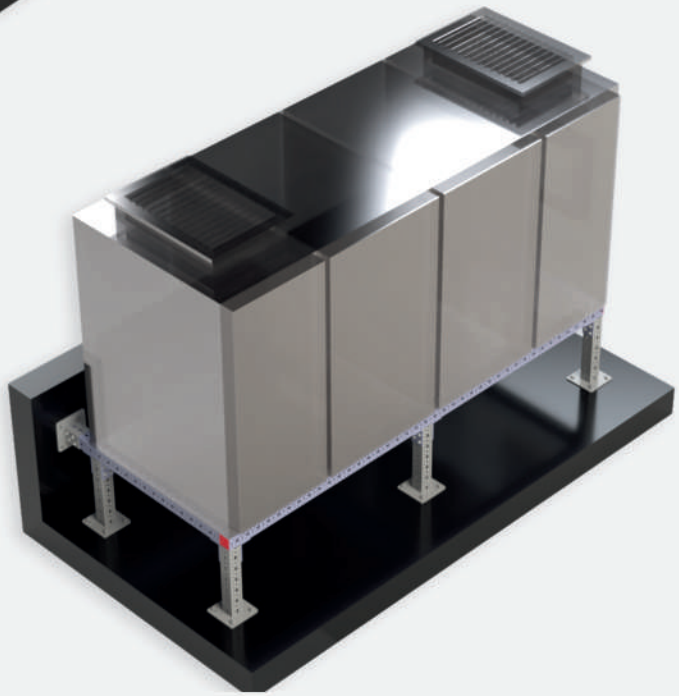




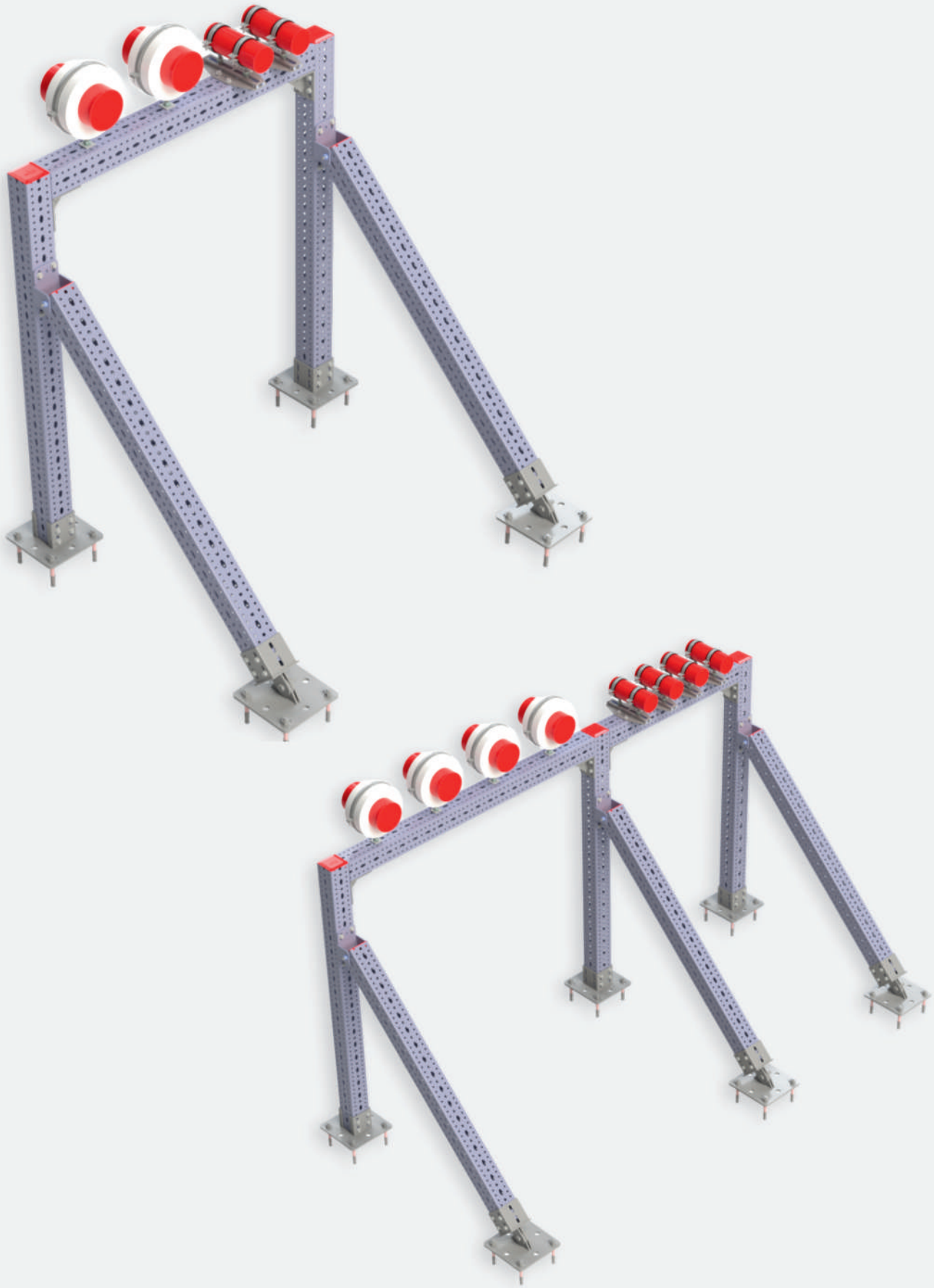
EURO MASTER UYGULAMA ÖRNEKLERİ
APPLICATION EXAMPLES FOR EURO MASTER







EURO MASTER UYGULAMA ÖRNEKLERİ
APPLICATION EXAMPLES FOR EURO MASTER



SERTİFİKALAR
CERTIFICATES



TSE EN 61537





ISO 9001:2015



ISO 14001:2015



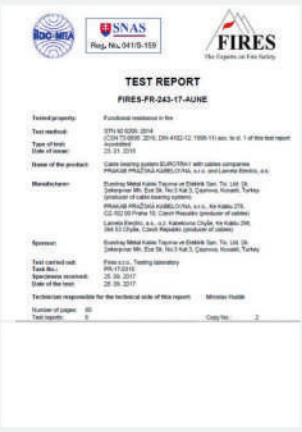
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CE DECLARATION



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