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RENK SEÇENEKLERİ
SPECIAL COLORS





SIRT SIRT A RAF SİSTEMİ (9001)

BACK TO BACK RACK SYSTEMS

- 01-Ayak
- 02-Travers
- 03-Deprem Çapraz Bağlantı
- 04-Tava Raf
- 05-Sunta Altı Destek Profili
- 06-H Bağlantı
- 07-Palet Dayama
- 08-Sirt Sirta Ara Bağlantı
- 09-Duvar Bağlantı
- 10-Güvenlik Kafesi
- 11-Bekleme Rafı
- 12-Ayak Koruma
- 13-Üst Emniyet Profili
- 14-Geçiş Koridoru

- 01-Heavy Rack Upright Frame
- 02-Beam
- 03-Cross Connection For Earthquake
- 04-Sheet Metal Panel
- 05-Plywood Safety Profile
- 06-H Type Beam
- 07-Pallet Bumper
- 08-Back to Back Middle Connector
- 09-Wall Connector Profile
- 10-Safety Case
- 11-Holding Shelf
- 12-Upright Protection
- 13-Top Security Profile
- 14-Corridor





► SIRT SIRTA RAF SİSTEMİ

Sırt sırta depolama, ürünlerin paletli olarak depolanmasına olanak sağlayan, kolay uygulanabilir geleneksel bir sistemdir. Her palete bağımsız erişim sağlar ve Raf yüksekliği ölçülerini kullanılacak ürün belirler.

Back to back rack systems are among most common warehouse rack systems used in storing pallet and metal boxes. It provides independent access to each pallet and will be used to determine product shelf height measurements.



Sırt sırta depolama sistemimizde kolay monte edilebilen traverslerin (yatay taşıyıcılar) ihtiyaca göre ara mesafeleri ayarlanabilmektedir, depo sisteminin taşınması durumunda ise farklı alternatiflerde kullanılması mümkündür.

Back to back beams in our storage system that can be easily mounted (horizontal carriers) clearances can be adjusted according to need, in the case of transport of the storage system can be used in different alternatives.





DAR KORİDOR RAF SİSTEMİ (9002)

NARROW AISLE RACKING SYSTEMS

- 01 -Ayak
- 02-Travers
- 03-Klavuz Rayı
- 04-Bekleme Rafı
- 05-Dar Koridor Forklifti

- 01 -Heavy Rack Upright Frame
- 02-Beam
- 03-Guide Rail
- 04-Holding Shelf
- 05-Narrow aisle forklift



04

05

01

02

03



► DAR KORİDOR RAF SİSTEMLERİ

Dar koridor forkliftleri klavuz yardımı ile hareket eder, koridorun sağ ve solunda bulunan profiller ile oluşturulmuş klavuz sayesinde istif makinesi düz bir şekilde ileri ve geri seri bir şekilde hareket etmiş olur.

Narrow aisle forklift truck moves with the help of guides, reach truck straight would have acted in a series of forward and backward by guide have been created due to the profiles on the right and left sides of the aisle.



Dar koridor sistemde farklı koridor ölçüleri bulunmaktadır ve bu ölçüleri kullanılacak palet ebatları belirler.

There are different sizes in narrow corridors and the sizes will be chosen according to the suitable pallets.



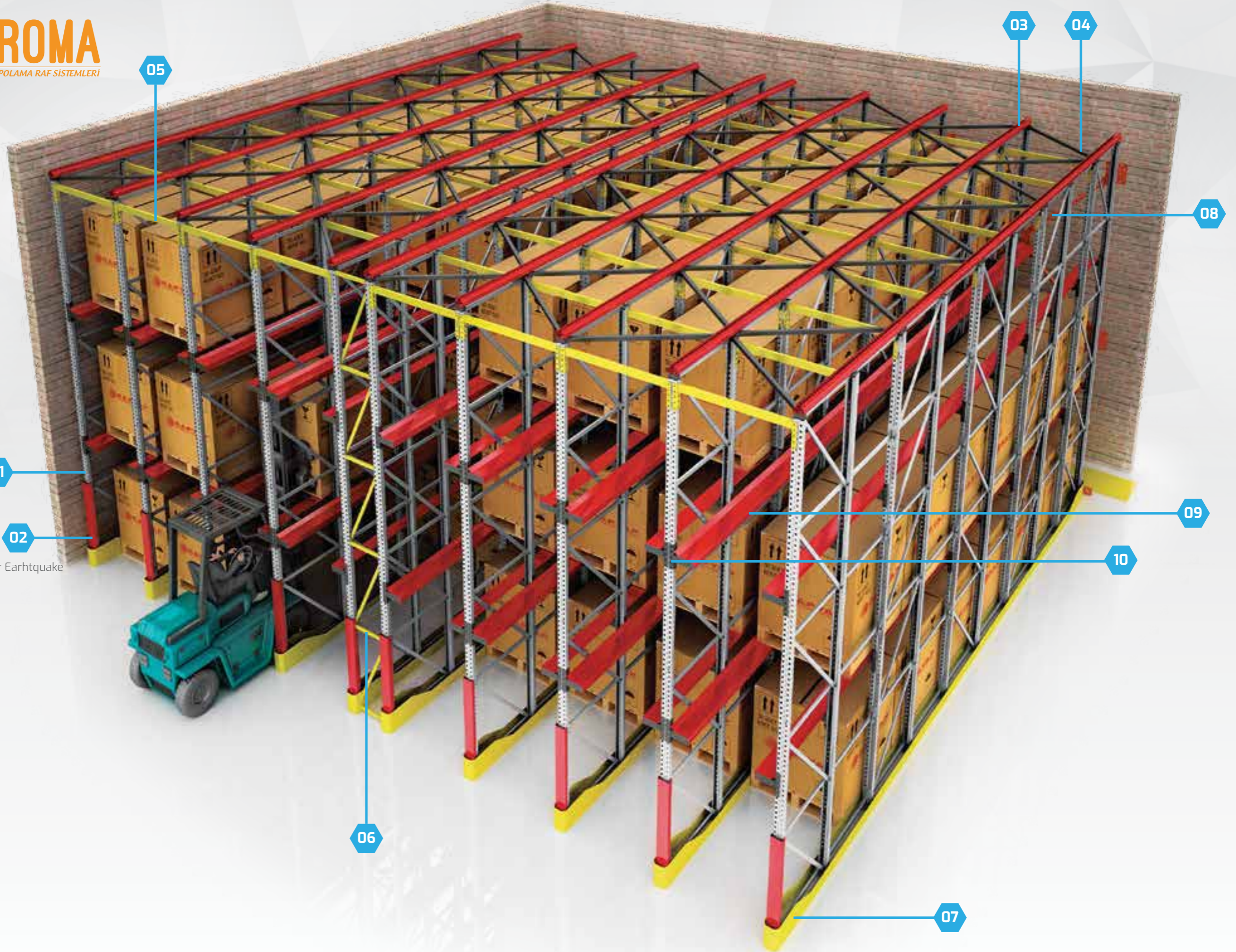


İÇİNE GİRİLEBİLİR RAF SİSTEMLERİ (9003)

DRIVE IN RACK SYSTEMS

- 01 -Ayak
- 02 -Ayak Koruma
- 03 -Ayak Üstü Bağlantı
- 04 -Üst Çapraz Bağlantı
- 05 -Koridor Traversi
- 06 -Deprem Ara Bağlantı Modülü
- 07 -Klavuz Rayı
- 08 -Arka Çapraz Bağlantı
- 09 -Palet Rayı
- 10 -Palet Rayı Konsolu

- 01 -Heavy Rack Upright Frame
- 02 -Upright Protection
- 03 -Upright Top Connection
- 04 -Top Cross Connection
- 05 -Beam of Corridor
- 06 -Middle Connection Module For Earthquake
- 07 -Upright Protection
- 08 -Back Cross Connection
- 09 -Rail of Pallet
- 10 -Rail of Pallet Console





► İÇİNE GİRİLEBİLİR RAF SİSTEMLERİ

Bu sistemde aynı tipte ve aynı ebatlardaki ürünlerin-de polanması amaçlanmıştır, Yük kanalının her iki tarafında bulunan raylar yardımı ile paletler taşınabilmektedir.

It is intended to store the products of the same size and same types , Pallets are moved with the help of rails which located both sides of drive-in .



Sistem forkliftin kanal içerisinde ileri ve geri hareket etmesiyle çalışmaktadır ve koridora ihtiyaç duyulmamaktadır, bu sayede kullanım alanı maksimum düzeydedir.

The system works by moving the truck backward and forward inside of rails and there is no need for a corridor, this allows the field to be maximum.





MEZANİN RAF SİSTEMLERİ (9004)

MEZZANINE RACK SYSTEMS

- 01 -Ayak
- 02 -Ayak Koruma
- 03 -Güvenlik Kafesi
- 04 -Yürüme Yolu
- 05 -Küpeşte
- 06 -Merdiven
- 07 -Güvenlik Mekanizması

- 01 -Heavy Rack Upright Frame
- 02 -Upright Protection
- 03 -Safety Case
- 04 -Walking Path
- 05 -Railing
- 06 -Stairway
- 07 -Safety Actuator





► MEZANİN RAF SİSTEMİ

Mezanin sistem, bina yüksekliğinin tamamını kullanmak için tasarlanmıştır, içinde yürüme yolları bulunan sistemde transpalet kullanılabilmekte ve insan gücüyle yükleme boşaltma yapılmaktadır.

Mezzanine system is designed to use the full height of the building. Hand pallet truck can be used in systems with walking roads in and loading and unloading is done by human power.



Sistem demonte olduğu için farklı alanlara taşınarak farklı ebatlarda kurulabilmektedir.

It can be installed in different sizes by moving to different areas because of the system is demounted



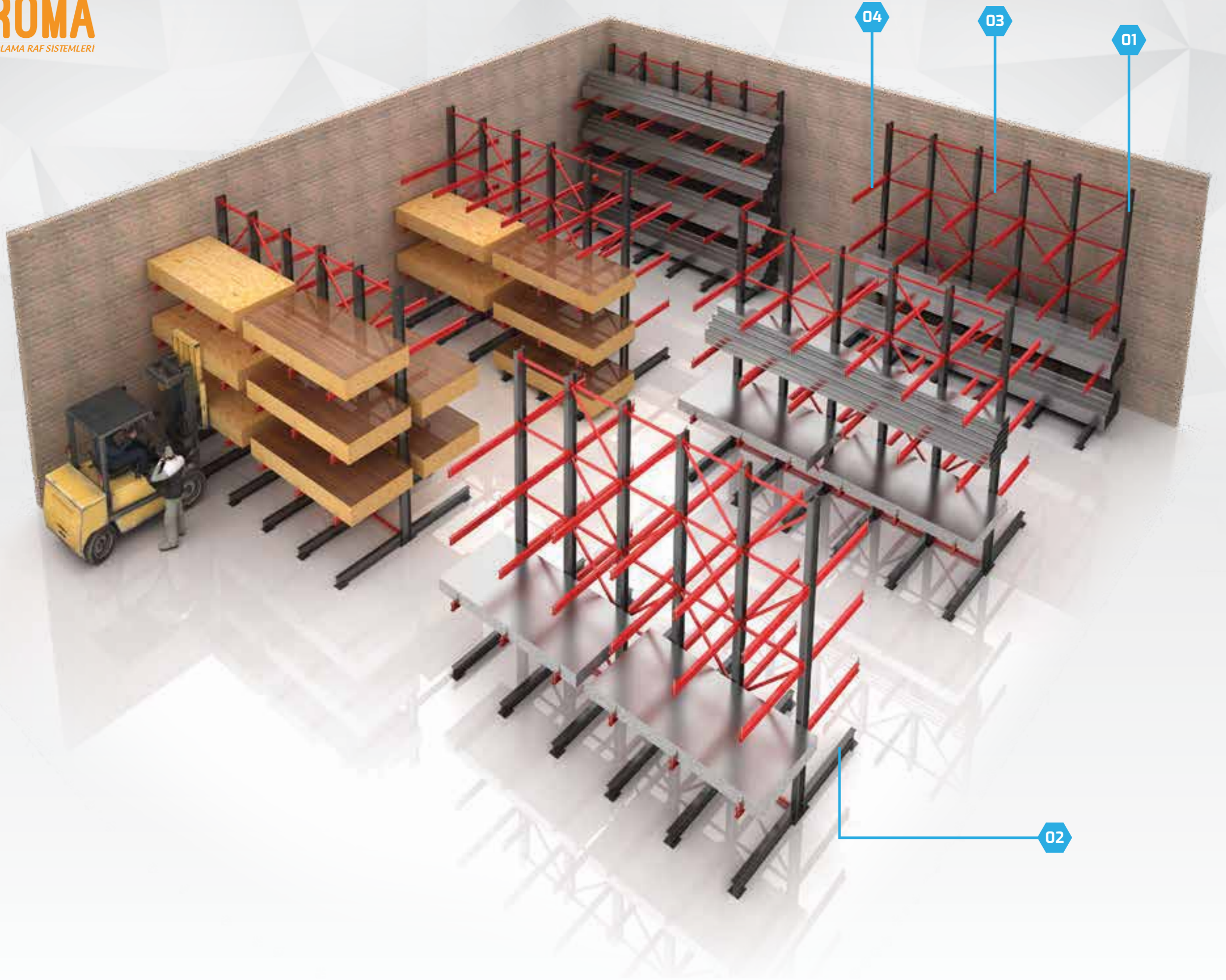


KONSOL KOLLU RAF SİSTEMLERİ (9005)

CANTILEVER RACK SYSTEMS

- 01 -Dikay Taşıyıcı
- 02-Yatay Taşıyıcı
- 03-Diyagonal
- 04-Yük Taşıma Konsolu

- 01 -Vertical Carrier
- 02-Horizontal Carrier
- 03-Diagonal
- 04-Load Carrying Console





► KONSOL KOLLU RAF SİSTEMLERİ

Bu sistemde uzun ve geniş ürünlerin depolanması amaçlanmıştır, boru, profil, ahşap plakalar vs. ürünlerin konsol üzerinde taşınmasına olanak sağlar, üniteler tek veya çift yönlü kullanılabilir.

It is intended to be stored long and wide product in this system. Allows to you carriage on to the console of the products pipes, profiles, wooden planks, etc. units may be used single or double sided.



Her ebat ve ağırlıktaki ürün için proje çalışması yapılarak farklı dikey ve yatay taşıyıcılar belirlenmektedir.

Making project work for products of all sizes and weights are determined for different vertical and horizontal carrier.



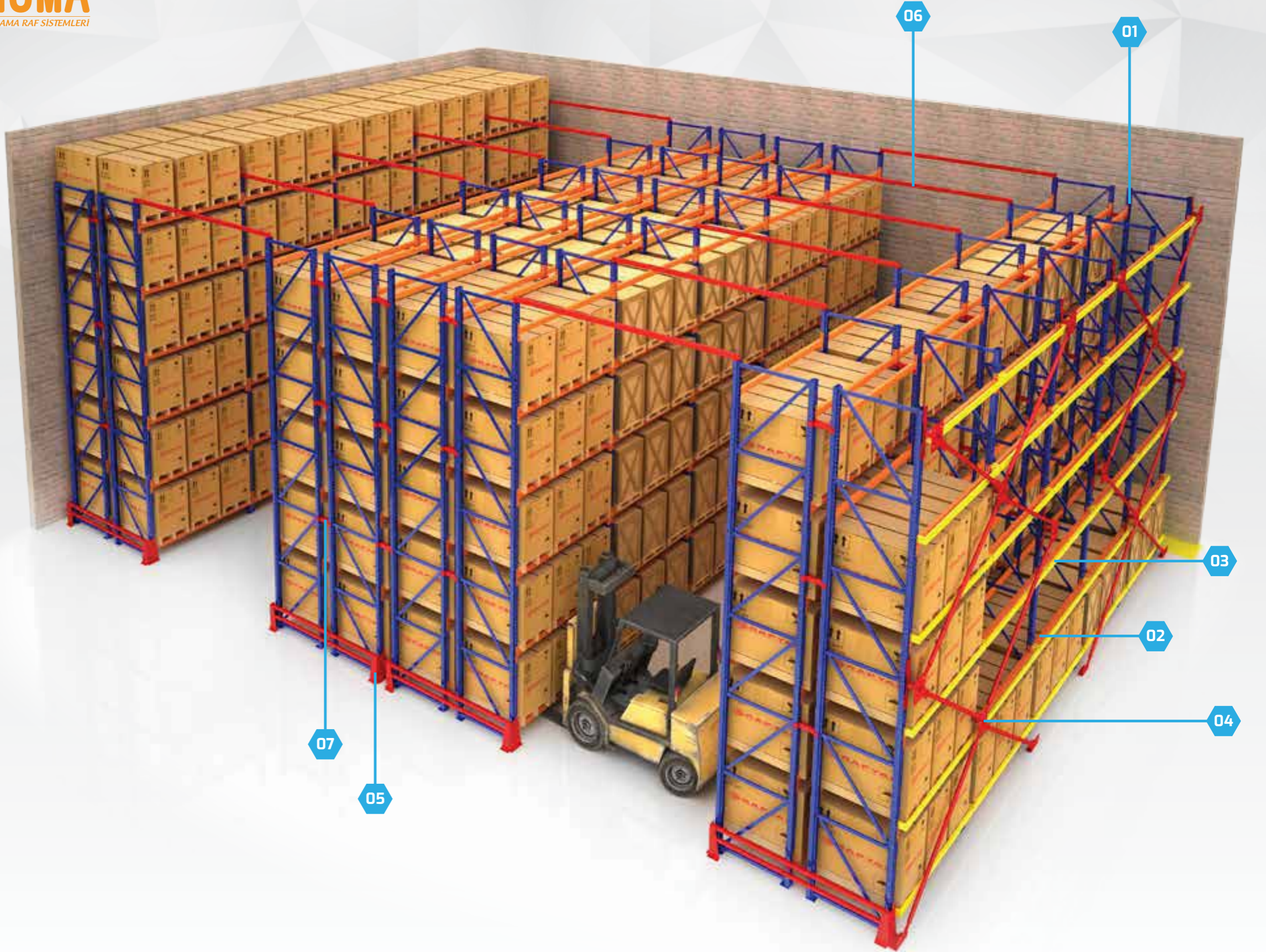


ÇİFT DERİNLİKLİ RAF SİSTEMLERİ (9006)

DOUBLE DEPTH SYSTEMS

- 01-Ayak
- 02-Travers
- 03-Palet Dayama
- 04-Deprem Çapraz Bağlantı
- 05-Ayak Koruma
- 06-Üst Emniyet Profili
- 07-Sirt Sirta Bağlantı

- 01-Heavy Rack Upright Frame
- 02-Beam
- 03-Pallet Bumper
- 04-Cross Connection For Earthquake
- 05-Upright Protection
- 06-Top Security Profile
- 07-Back to Back Middle Connector





► ÇİFT DERİNLİKLI RAF SİSTEMLERİ

Paletlerin yerleşimi özel teleskopik çatallar sayesinde gerçekleştirilmektedir, bu çatallar çoğu forklift tipine uygundur.

The placement of pallets is realized through special telescopic forks, the forks are suitable for most forklift types.



KAYAR RAF SİSTEMLERİ (9007)

PALET FLOW RACK SYSTEMS

- 01-Ayak
- 02-Travers
- 03-Üst Çapraz Bağlantı
- 04-Palet Stoper
- 05-Rulo Konveyör
- 06-Ayak Koruma

- 01-Heavy Rack Upright Frame
- 02-Travers
- 03-Top Cross Connection
- 04-Pallet Stopper
- 05-Roller Conveyors
- 06-Upright Protection





► KAYAR RAF SİSTEMLERİ

Aynı ebat ve çeşitte paletlerin depolanması için uygundur, Sistem paletler hafif eğimli ve belirli aralıklarda yavaşlatma sistemleri bulunan konveyör sistem üzerinde ilerleyerek-ünitenin sonuna doğru hareket etmek kaydıyla çalışmaktadır.

It is suitable for the storage of pallets of the same size and type. System works pallets gently sloping and slow intervals in which the recording systems to move towards the end of the unit by moving on the conveyor system



Bu sistem ilk giren ilk çıkar esasına uygun çalışma imkanı sağlar ve son kullanma süreli ürünler için ideal bir seçimdir.

This system allows for proper operation of first in first out basis and is an ideal choice for expiration term products.



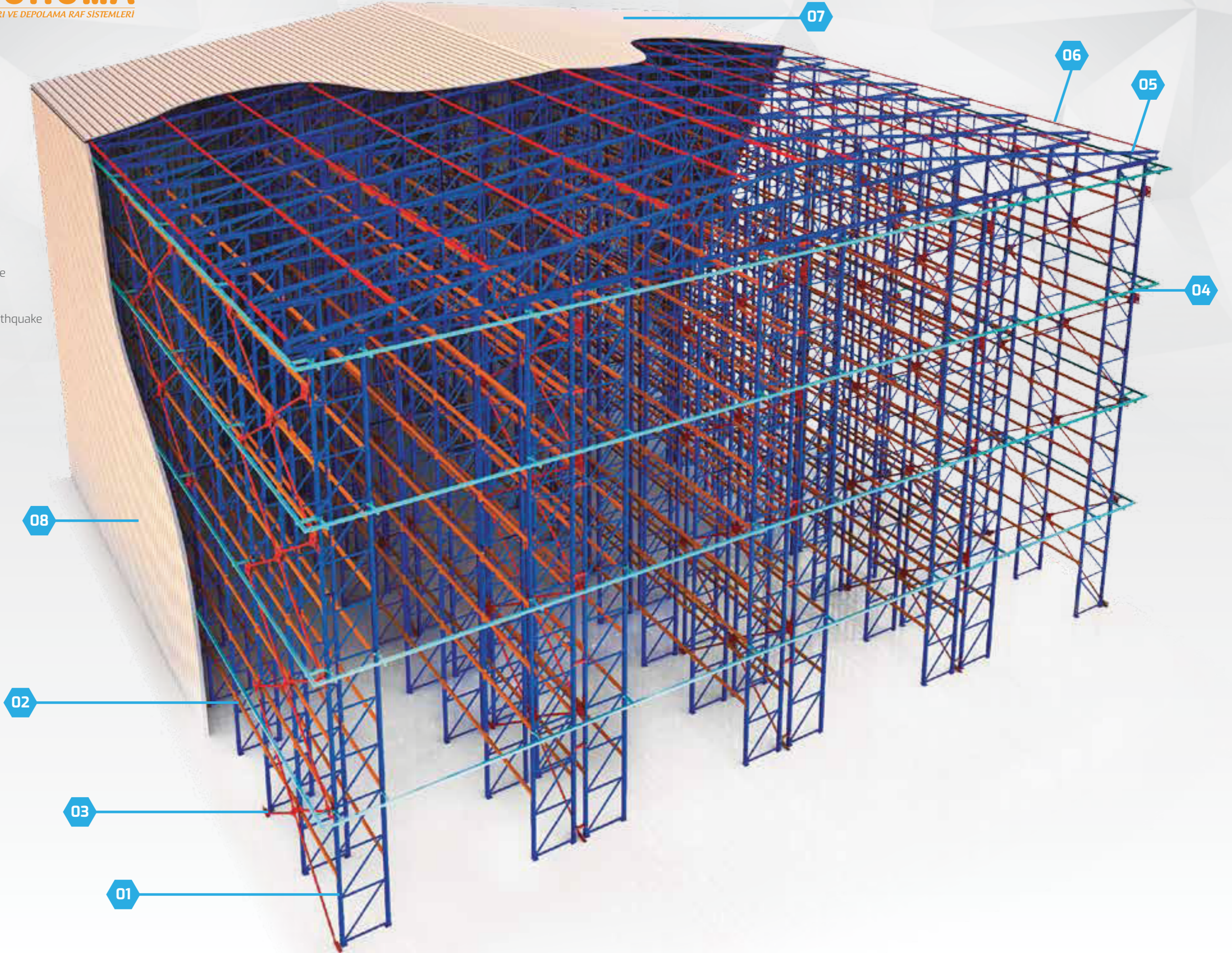


GİYDİRME DEPO RAF SİSTEMLERİ (9008)

RACK CLADDING BUILDING SYSTEMS

- 01-Ayak
- 02-Travers
- 03-Deprem Çapraz Bağlantı
- 04-Yan Panel Tutucu
- 05-Makas
- 06-Çatı Aşığı
- 07-Çatı Paneli
- 08-Yan Panel

- 01-Heavy Rack Upright Frame
- 02-Beam
- 03-Cross Connection For Earthquake
- 04-Side Panel Holder
- 05-Supported Frameworks
- 06-Purlin
- 07-Roof Panel
- 08-Side Panel





► GİYDİRME DEPO RAF SİSTEMLERİ

Depolama amaçlı kullanılacak yapılarda tercih edilerek bina maliyetine gerek duymadan oluşturulan iskelet sistemi ile çatı ve yan duvarlar sistem üzerine monte edilerek oluşturulmaktadır, bu sayede ekonomik bir çözüm sunmaktadır.

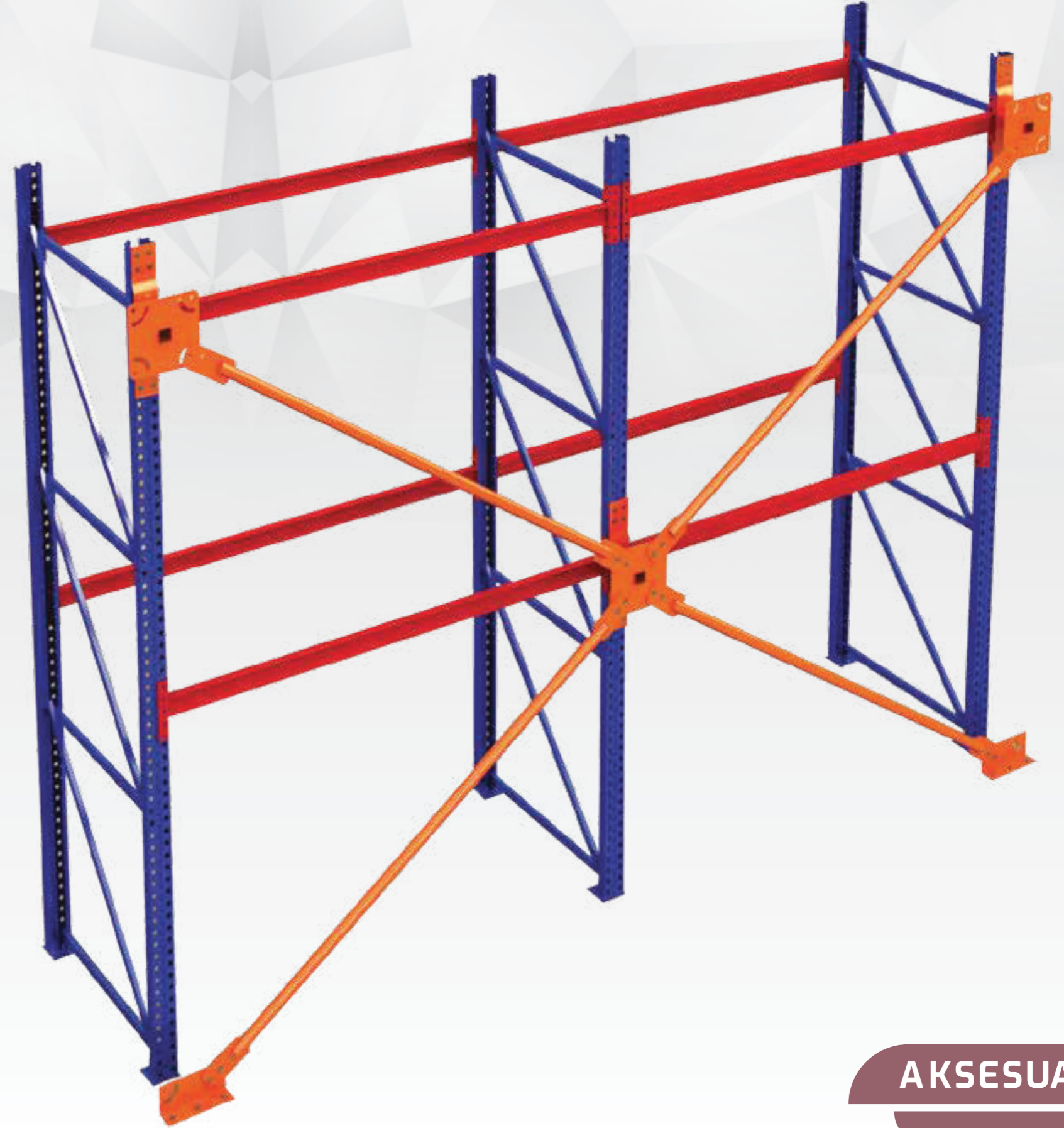
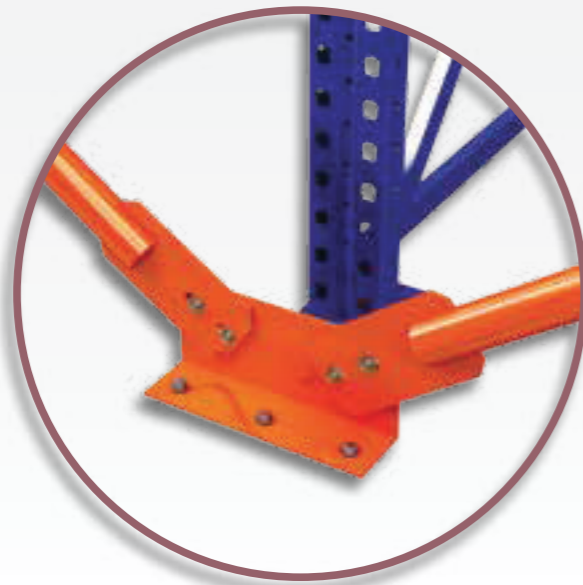
The preference structure will be used for storage in the skeletal system formed without the cost of building the roof and side walls are formed mounted on the system, thus it offers an economical solution.

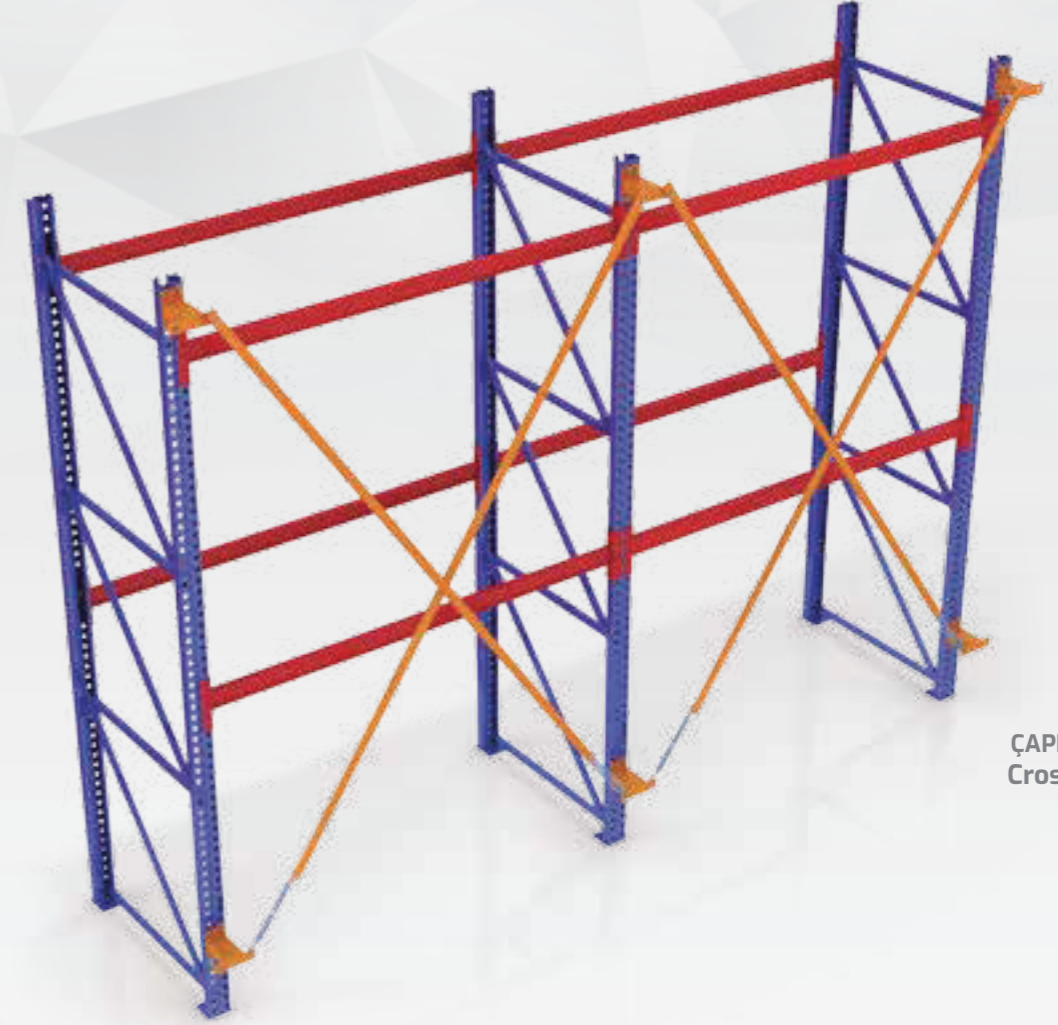
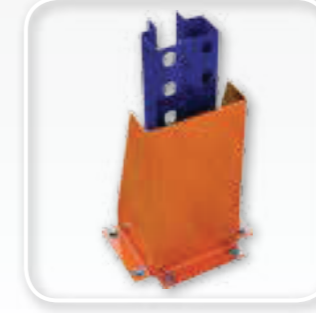


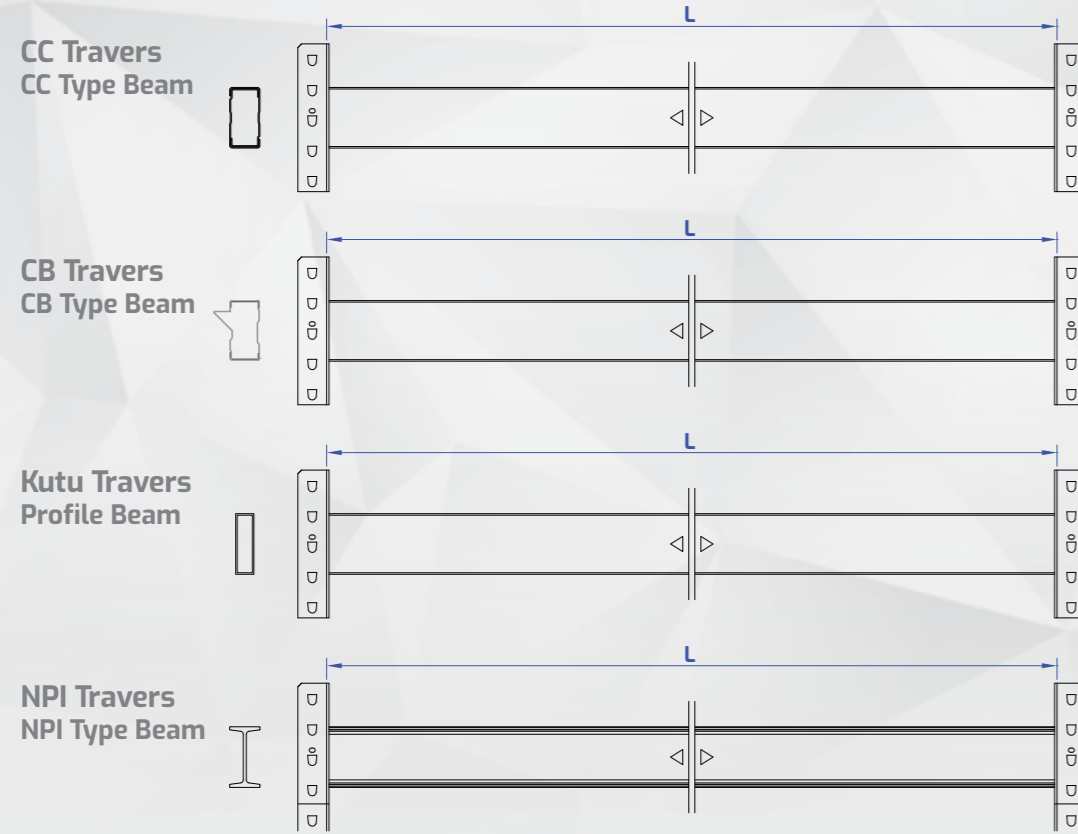
Sistem çeşitli ürünlerin depolanmasına olanak sağlar ve klasik ve otomatik sistemlerin kullanılmasına uygundur.

The system allows the storage of various products and are suitable for the use of classical and automatic systems.





TAVA RAF
Sheet Metal PanelSUNTA RAF VE DESTEĞİ
Bracket of PlywoodGÜVENLİK KAFESİ
Safety CaseKORİDOR EMNİYET PROFİLİ
Corridor Security ProfileDUVARA BAĞLANTI
Wall Connector ProfileSIRT SIRTA BAĞLANTI
Back to Back Middle ConnectorDEPREM ÇAPRAZ BAĞLATI
Cross Connection For EarthquakeÇAPRAZ BAĞLATI
Cross ConnectionH DESTEK
H Type BeamPALET DAYAMA
Pallet BumperBEKLEME RAFI
Holding ShelfL AYAK KORUMA
L Type Upright ProtectionU AYAK KORUMA
U Type Upright ProtectionBARİYER AYAK KORUMA
Barrier Upright Protection



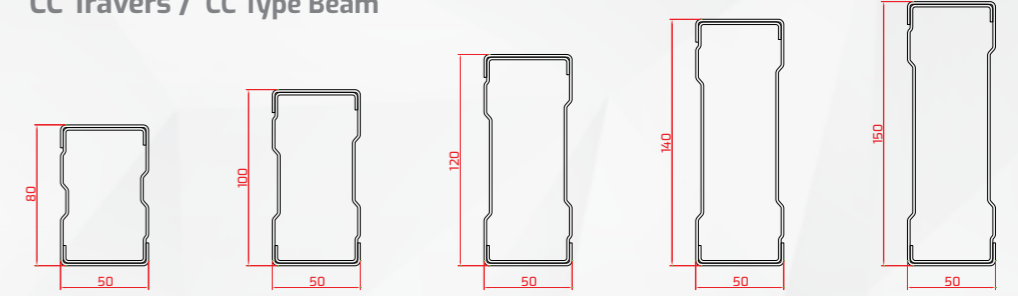
Maksimum Taşıma Kapasiteleri (Kg)

Maximum Loading Capacity (Kg)

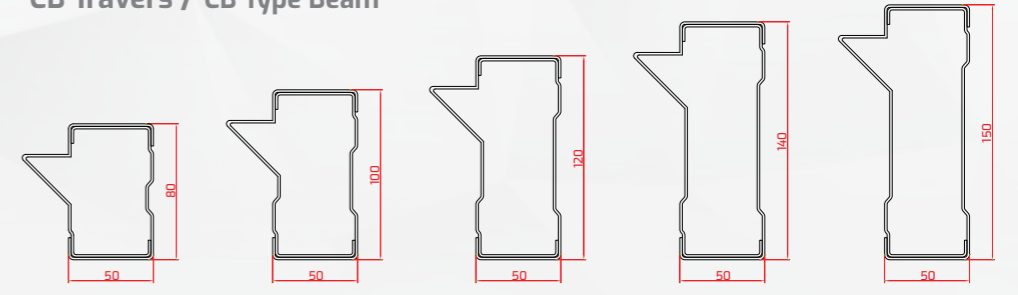
Profiller / Profiles /	Profil Uzunlukları / Profile Length /		
	L: 950	L: 1850	L: 2700
CC 50x100x1,5	4250	3000	2100
CC 50x120x1,5	5525	3750	2700
CC 50x140x1,5	6500	4750	3500
CC 50x150x1,5	10750	5900	3950
CC 50x80x2	6100	3400	1800
CC 50x100x2	8300	4600	3050
CC 50x120x2	10500	5900	3950
CC 50x140x2	12000	7000	5000
CC 50x150x2	14500	8050	5350
CB 50x80x1,5	4000	2500	1350
CB 50x100x1,5	4250	3000	2100
CB 50x120x1,5	5525	3750	2700
CB 50x140x1,5	6500	4750	3500
CB 50x150x1,5	10750	5900	3950
40x80x2	1950	1300	600
40x100x2	2500	1850	1100
40x120x2	3000	2300	1600
50x100x2	3050	2350	1650
40x80x2,5	2950	2000	900
40x100x2,5	3900	2650	1650
40x120x2,5	4950	3400	2250
50x100x2,5	5000	3450	2300
NPI 80	4250	2766	1844
NPI 100	10944	6080	4053
NPI 120	20992	11662	7774
NPI 140	34007	18890	10028
NPI 160	45229	25100	13337



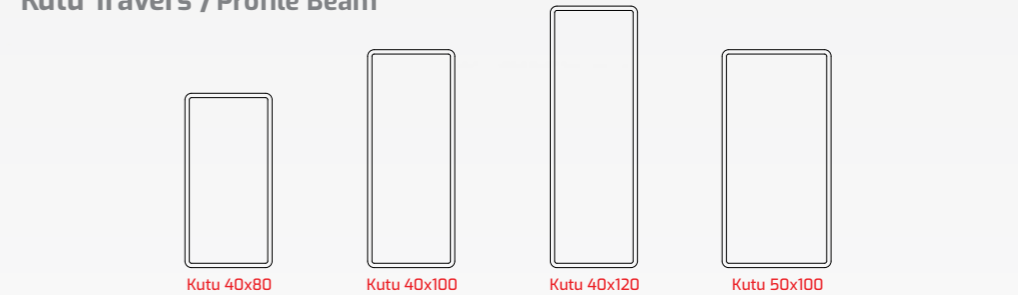
CC Travers / CC Type Beam



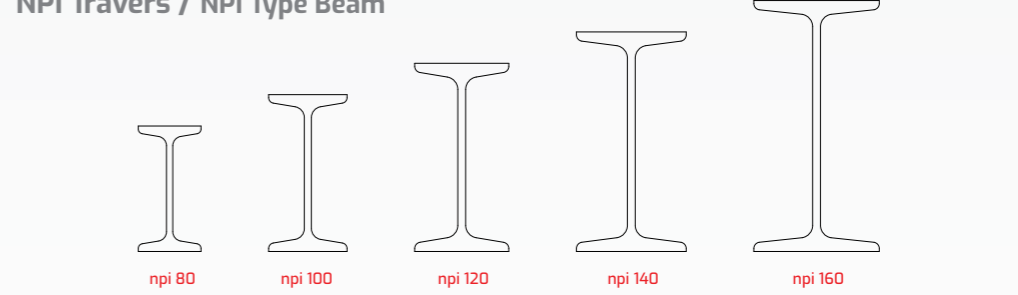
CB Travers / CB Type Beam



Kutu Travers / Profile Beam



NPI Travers / NPI Type Beam



Bütün Mukavemet ve Taşıma Kapasitesi Hesapları İstanbul Teknik Üniversitesi Tarafından
Kontrol Edilmiş ve Onaylanmıştır.

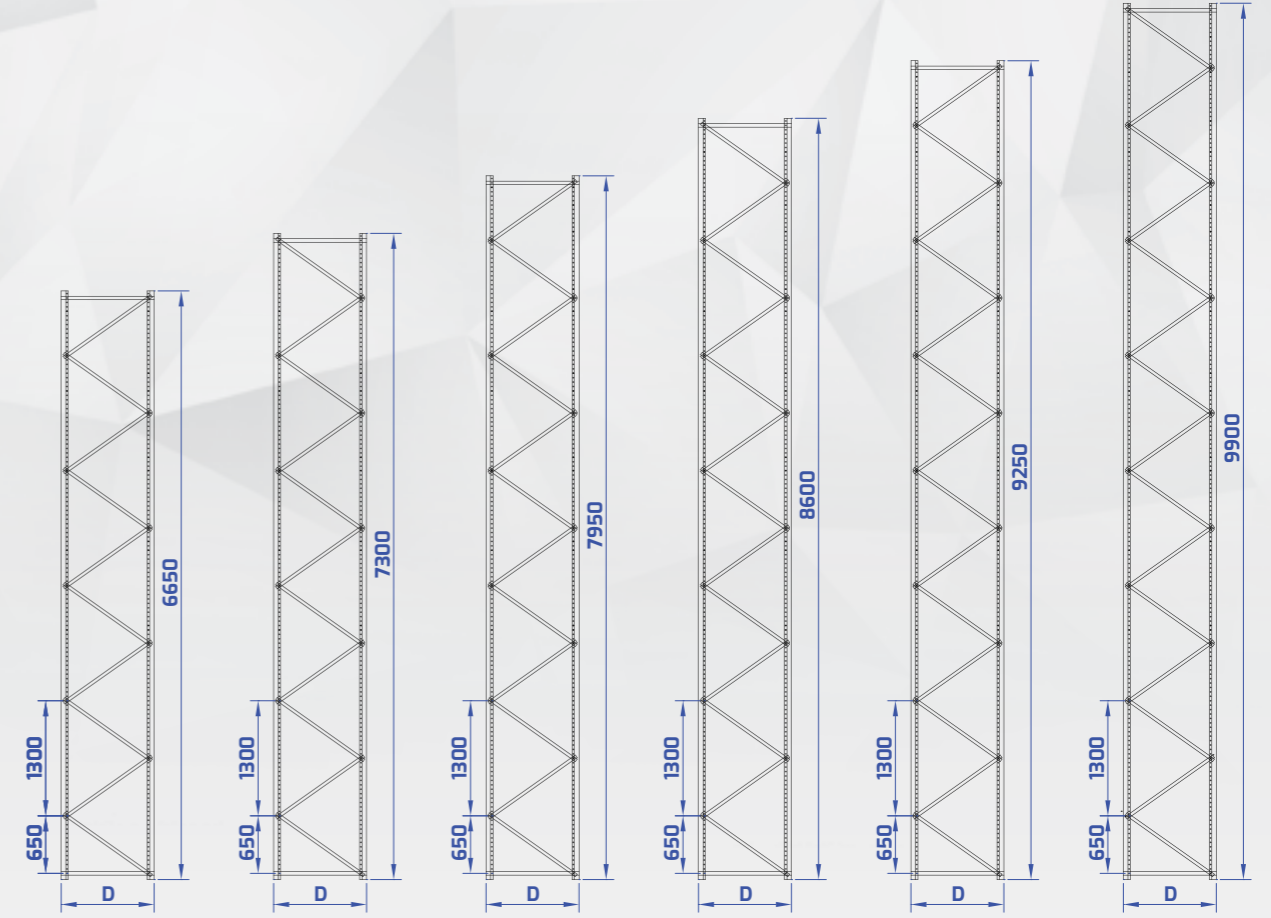
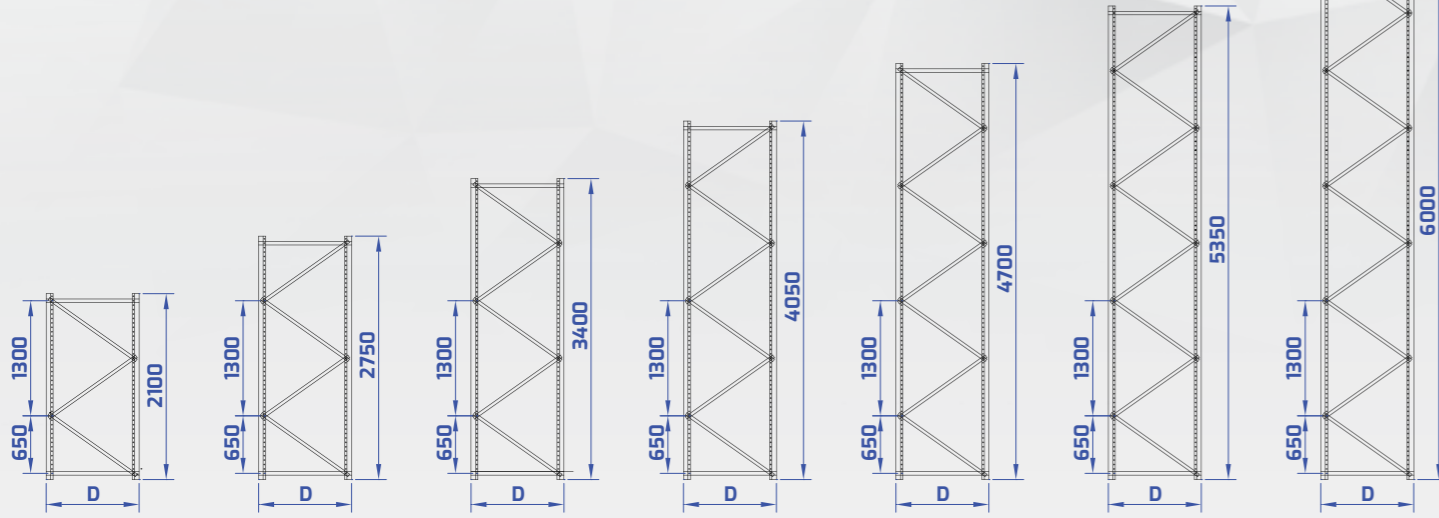
All Technical Calculations Are Supported by Istanbul Technical University

1: Ağır rack sisteme konulacak toplam yükler dört adet ayağın toplam kapasitesini geçmemelidir.
The total weight on the high rack systems must not exceed the total carrying capacity of the 4 upright

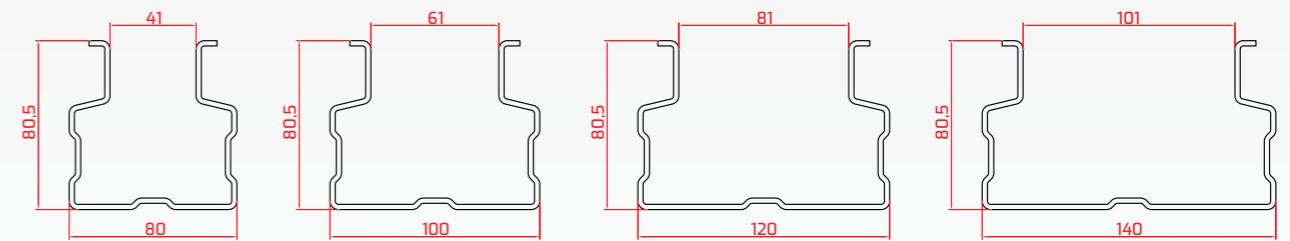
2: En üst taraftaki travers ayağın, en üst noktadan 40 cm aşağıda bağlanmalıdır.
The top shelf must be attached min. 40 cm bellow the beam's highest point.

3: Ağır rack sistem ayaklar yere basitlenmelidir.
The high rack systems must be attached to the floor.

4: Ağır rack sistem duvara sabitlenecek ise en üstten ikinci delikten bağlanmalıdır.
The high rack systems should be mounted to the wall from the second hole from the top.

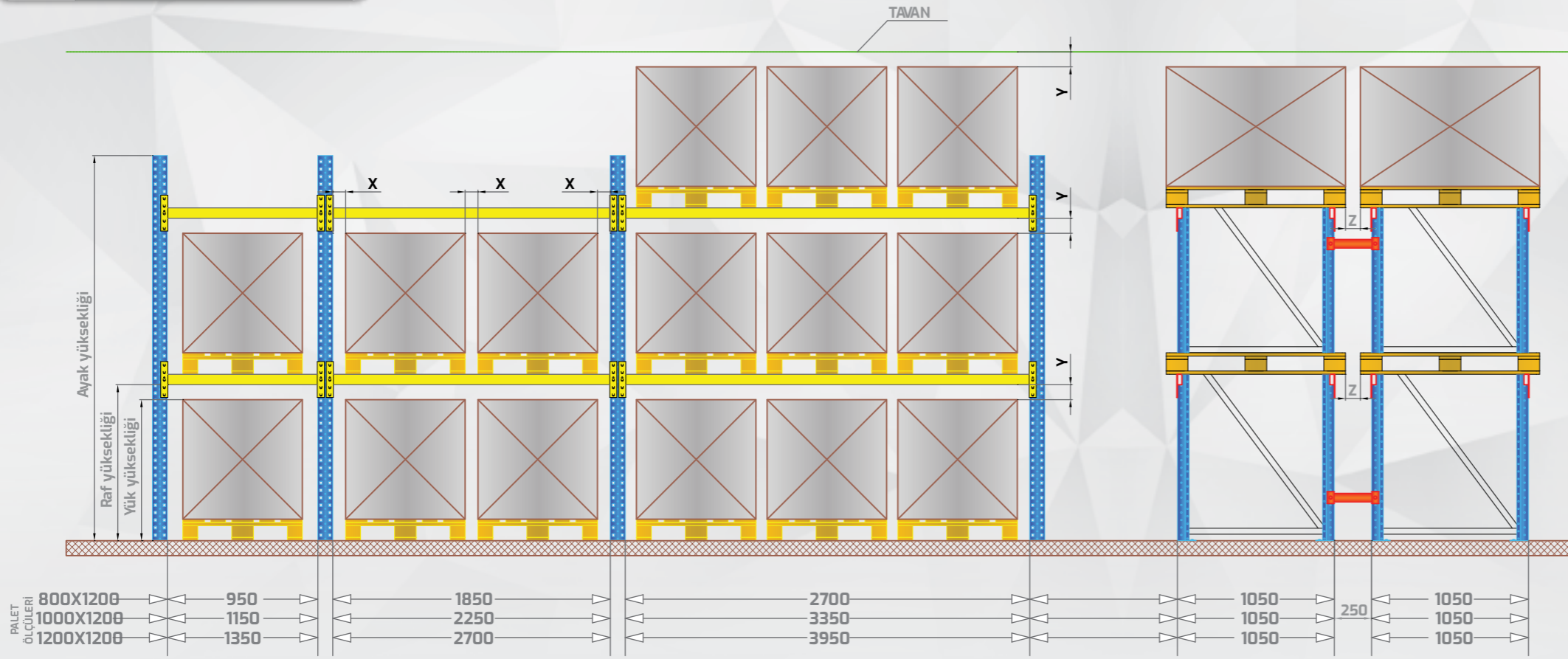


AYAKLARIN YÜKSEKLİĞİ HEIGHT OF UPRIGHT	DÖRT AYAKIN MAKSİMUM TAŞIMA KAPASİTESİ - Kg. / MAX. WEIGHT CAPACITY FOR 4 UPRIGHT - Kg.		
	Sac Kalınlığı / Thickness of Steel 2,5 mm /	Sac Kalınlığı / Thickness of Steel 3 mm /	Sac Kalınlığı / Thickness of Steel 3,5 mm /
2000	65,631	76,509	86,883
2500	38,099	44,413	50,435
3000	24,854	28,973	32,902
3500	17,483	20,381	23,144
4000	12,964	15,112	17,162
4500	9,995	11,651	13,231
5000	7,940	9,256	10,511
5500	6,459	7,530	8,551
6000	5,357	6,245	7,092
6500	4,515	5,263	5,977
7000	3,857	4,496	5,106
7500	3,333	3,885	4,412
8000	2,908	3,390	3,850
8500	2,560	2,985	3,390
9000	2,271	2,648	3,007



Bütün Mukavemet ve Taşıma Kapasitesi Hesapları İstanbul Teknik Üniversitesi Tarafından
Kontrol Edilmiş ve Onaylanmıştır.

All Technical Calculations Are Supported by Istanbul Technical University



Ayak Yüksekliği Ayak Yüksekliği	Sınıf / Class 400			Sınıf / Class 300A			Sınıf / Class 300B		
	X	Y	Z	X	Y	Z	X	Y	Z
0 - 3000 mm	75	75	10	75	75	10	75	75	10
3000 - 6000 mm	75	100	10	75	75	10	75	100	10
6000 - 9000 mm	75	125	10	75	75	10	75	125	10
9000 - 12000 mm	100	150	10	75	75	10	100	150	10

- Sınıf 400 : Denge ağırlıklı forklift
Truck With Balance Weight

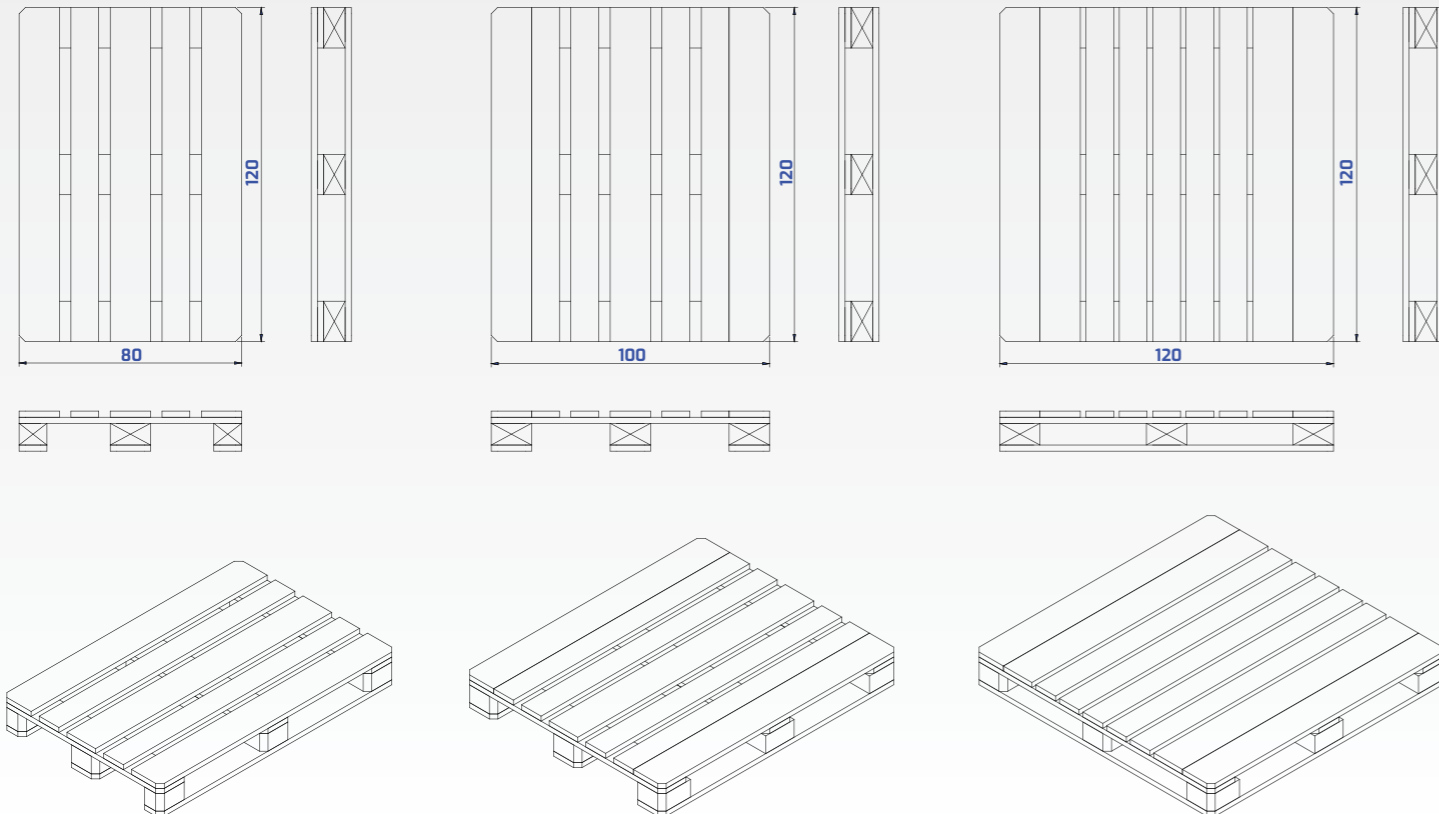
- Sınıf 300A : Dar koridor forklift ile çalışma
(Operatör kabini yük ile birlikte aşağı yukarı hareket eder.)
Carry by Truck according to narrow Corridor
(Cabin of operator moves with load up and down.)

- Sınıf 300B : Dar koridor forklift ile çalışma
(Operatör kabini sabittir, aşağı ve yukarı hareket etmez.)
Carry by Truck according to narrow Corridor
(Cabin of operator is fixed . Not move with load up and down.)

- Reach Truck

STANDART PALET ÖLÇÜLERİ

Standard Pallet Sizes



SINIF 400

Class 400

Koridor Genişliği: 3500 mm
Length of Corridor

Kaldırma Yüksekliği: 8 m
Height of Lifting



REACH TRUCK

Koridor Genişliği: 2600 / 2900 mm
Length of Corridor

Kaldırma Yüksekliği: 13 m
Height of Lifting



SINIF 300A

Class 300A

Koridor Genişliği: 1400 / 1650 mm
Length of Corridor

Kaldırma Yüksekliği: 14 m
Height of Lifting



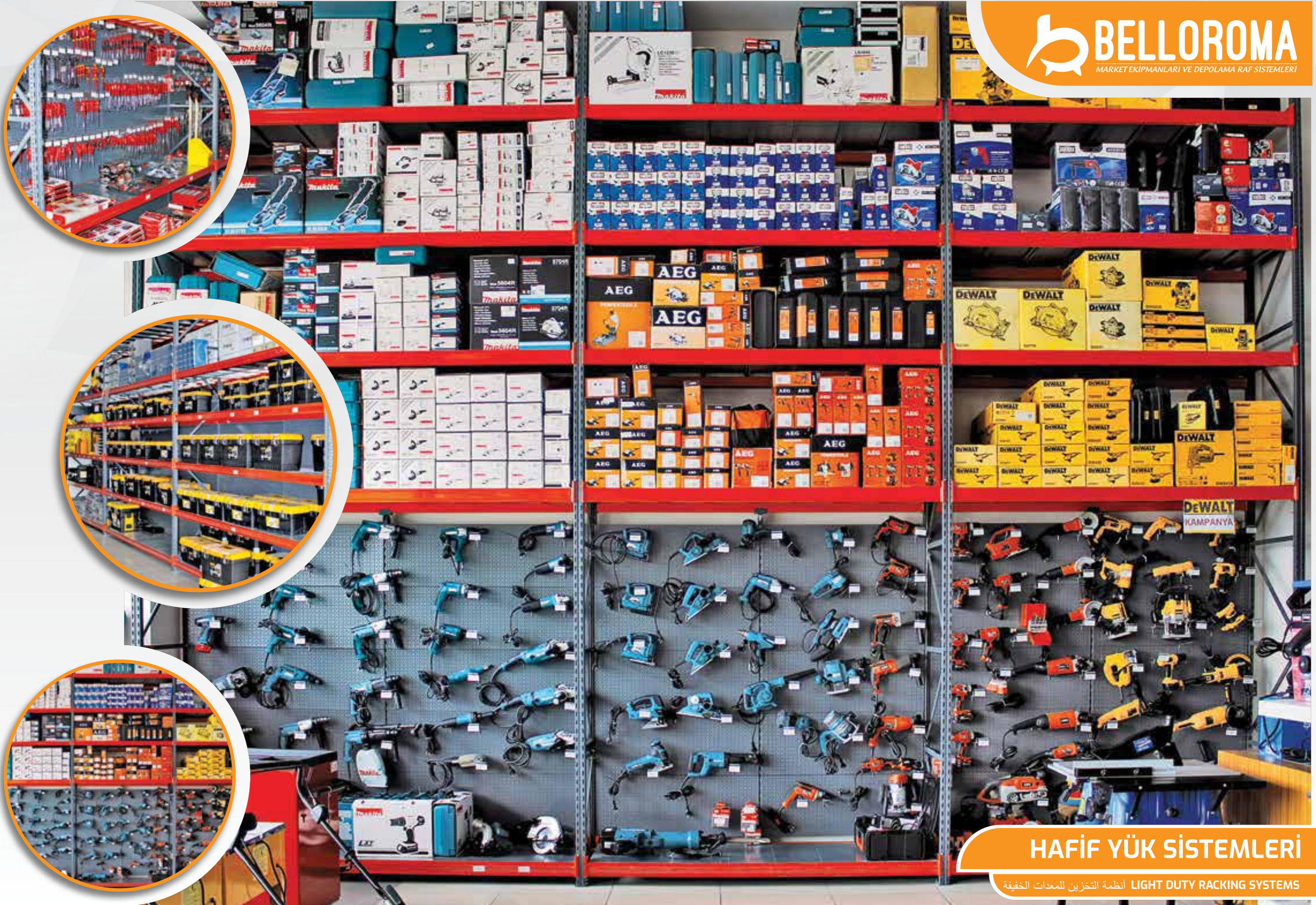
SINIF 300B

Class 300B

Koridor Genişliği: 1400 / 1700 mm
Length of Corridor
رافعة مناسبة لعرض الممر

Kaldırma Yüksekliği: 12 m
Height of Lifting





HAFİF YÜK SİSTEMLERİ

أنظمة التخزين للمعدات الخفيفة LIGHT DUTY RACKING SYSTEMS

- 01-Ayak
- 02-Travers
- 03-Arka Sac
- 04-Raf Desteği
- 05-Raf
- 06-Tava Raf
- 07-Profil Askı Barı
- 08-Askı Çubuğu

- 01-Pro-Rack Upright Frame
- 02-Beam
- 03-Back Panel
- 04-Bracket
- 05-Shelf
- 06-Metal Panel
- 07-Profile Hanger
- 08-Hook



06

05

04

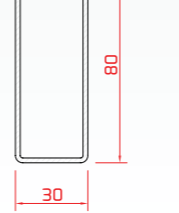
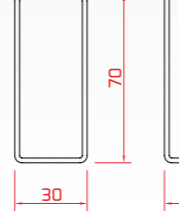
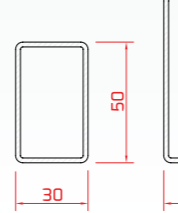
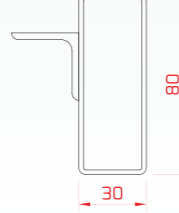
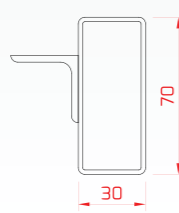
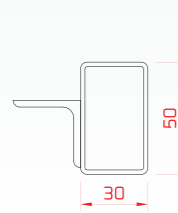
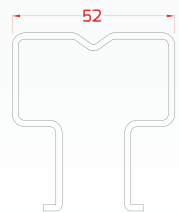
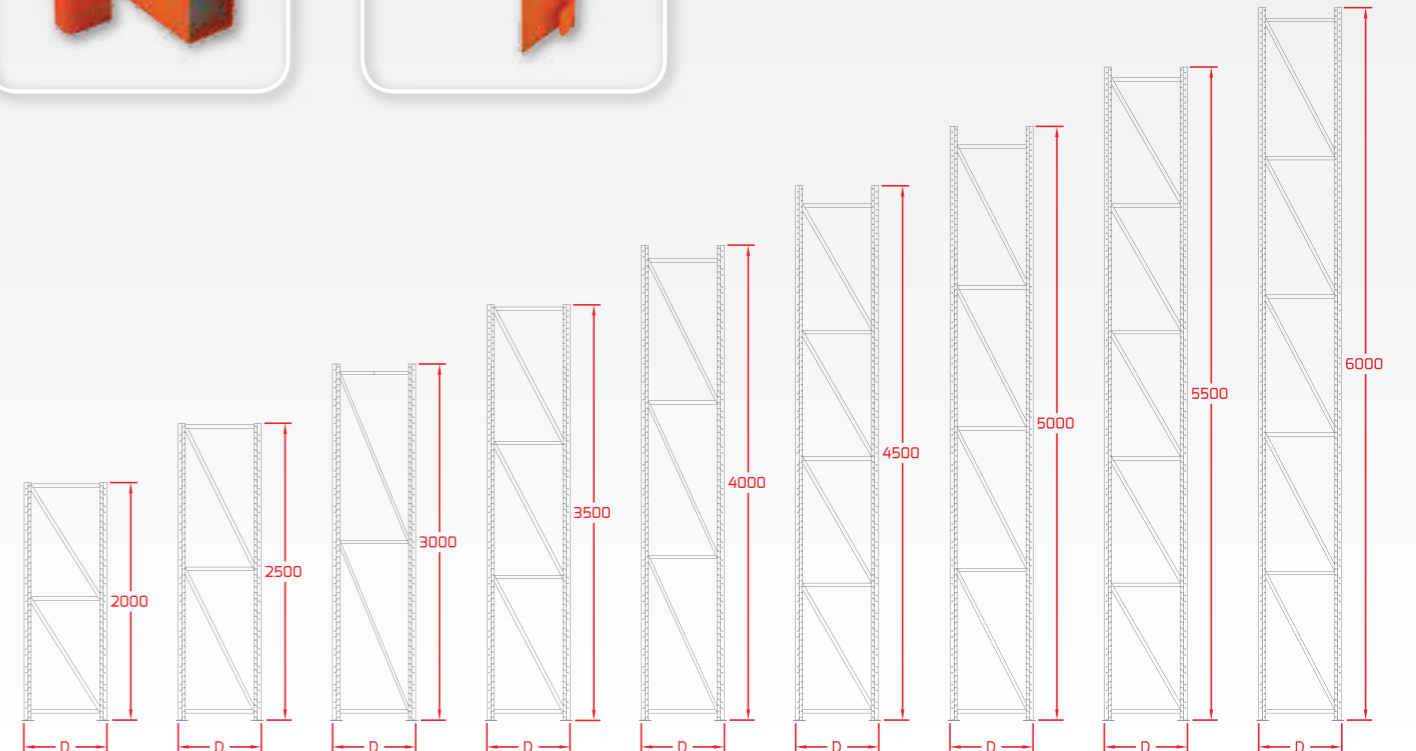
08

03

02

01

07

METAL RAF
ShelfDESTEK
BracketAYAK
Pro-Rack Frame UprightSUNTA RAF
Plywood ShelfSUNTA RAF VE DESTEĞİ
Bracket of PlywoodTAVA RAF
Sheet Metal PanelDELİKLİ ARKA SAÇ
Perforated Back PanelLAMALI TRAVERS
Gusseted BeamKUTU TRAVERS
Profile BeamTRAVERS TIRNAĞI
Beam Mechanism



01-Ayak

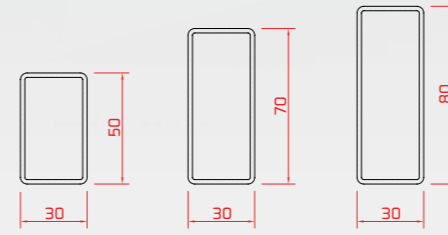
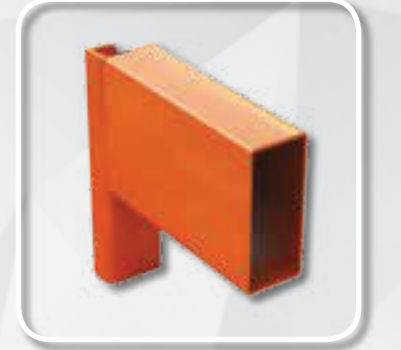
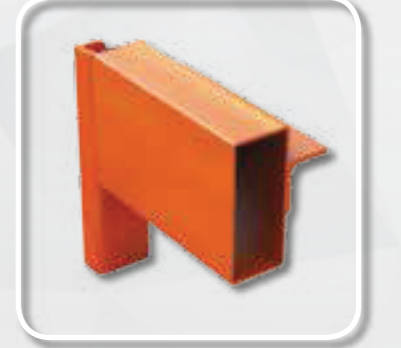
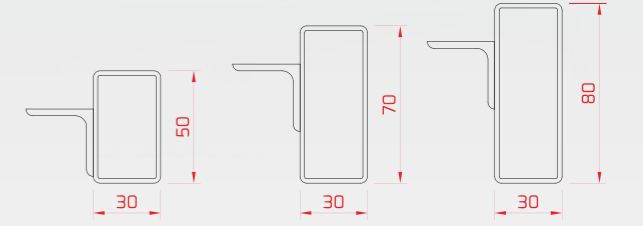
01-Frame Upright

02-Travers

02-Beam

03-Tava Raf

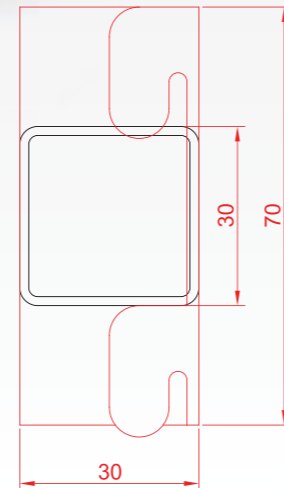
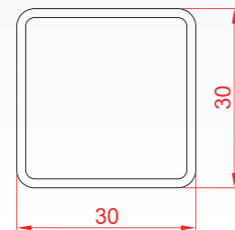
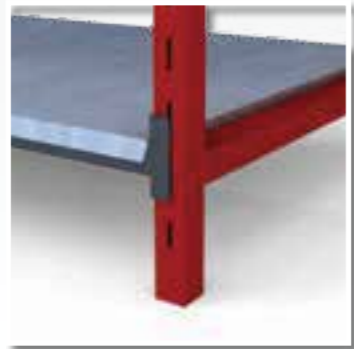
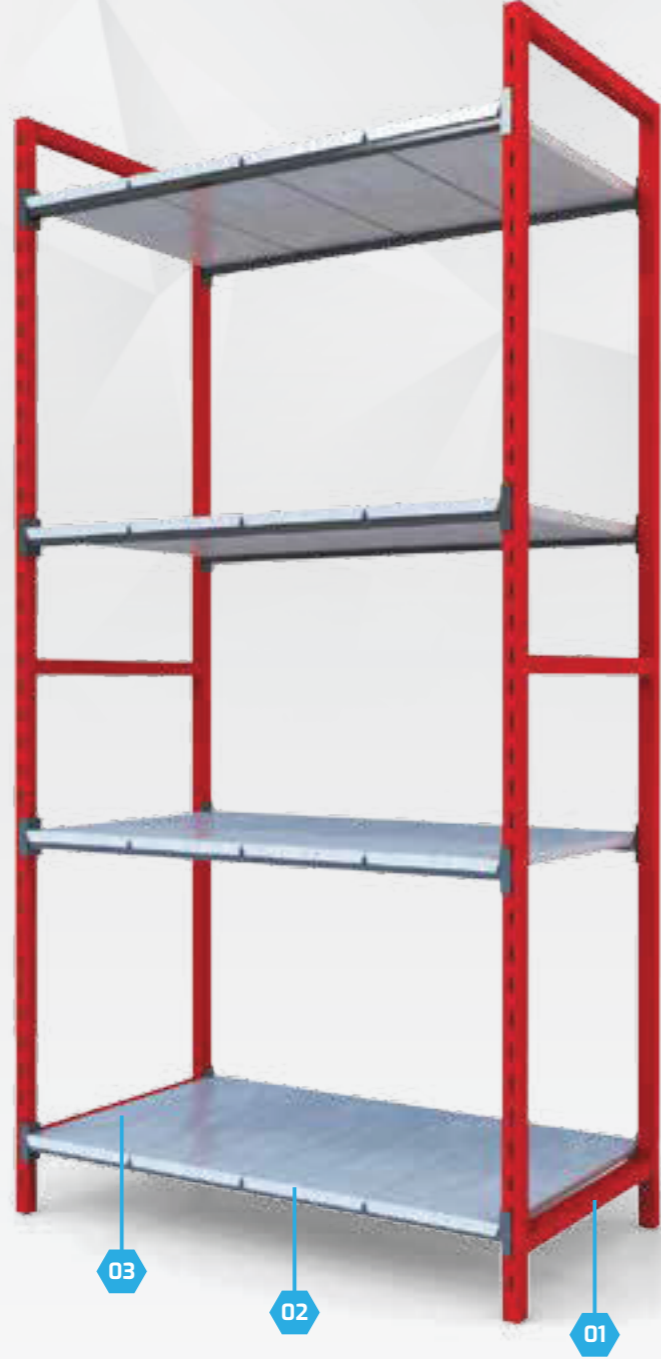
03-Sheet Metal Panel


AHŞAP RAFLI SİSTEM / Wooden Shelf System/

TABLALI SİSTEM / Sheet Metal Panel System /

KUTU TRAVERS / Profile Beam

LAMALI TRAVERS / Gusseted Beam

TRAVERS DETAYI / Details of Beam

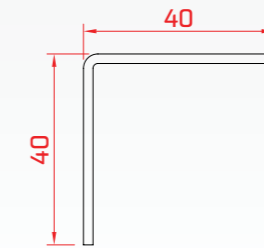
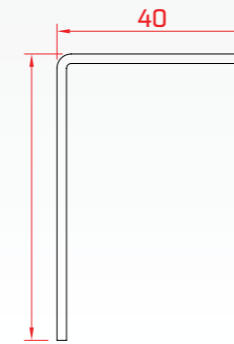
AYAK DETAYI / Details of Frame Upright



- | | |
|-------------|----------------------|
| 01-Ayak | 01-Frame Upright |
| 02-Travers | 02-Beam |
| 03-Tava Raf | 03-Sheet Metal Panel |



- | | |
|----------------|---------------|
| 01-Ayak | 01-Profile |
| 02-Raf | 02-Shelf |
| 03-Arka Kapama | 03-Back Panel |
| 04-Yan Kapama | 04-Side Panel |





YAPI MARKET RAF SİSTEMLERİ

CONSTRUCTION MARKET SHELF SYSTEMS








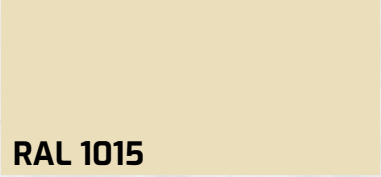



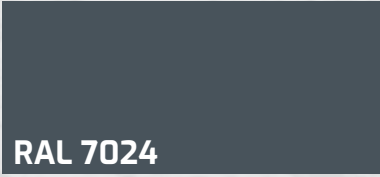
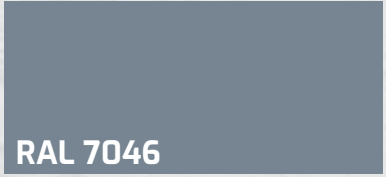


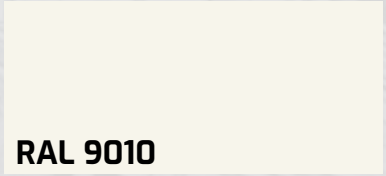




STANDART RENK SEÇENEKLERİ / STANDARD COLORS

<p>Turuncu / Orange</p>  <p>RAL 2004</p>	<p>Parlament Mavi / Parliament Blue</p>  <p>RAL 5002</p>	<p>Galvaniz / Galvanized</p> 
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ÖZEL RENK SEÇENEKLERİ / SPECIAL COLORS

<p>Bej / Beige</p>  <p>RAL 1015</p>	<p>Sarı / Yellow</p>  <p>RAL 1023</p>	<p>Kırmızı / Red</p>  <p>RAL 3000</p>
<p>Turkuaz / Turquoise</p>  <p>RAL 5018</p>	<p>Antrasit / Anthracite</p>  <p>RAL 7024</p>	<p>Çelik Raf Gri / Steel Shelf Gray</p>  <p>RAL 7046</p>
<p>Siyah / Black</p>  <p>RAL 9005</p>	<p>Gri / Gray</p>  <p>RAL 9006</p>	<p>Rafyap Beyaz / White</p>  <p>RAL 9010</p>



BELLOROMA

MARKET EKİPMANLARI VE DEPOLAMA RAF SİSTEMLERİ

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