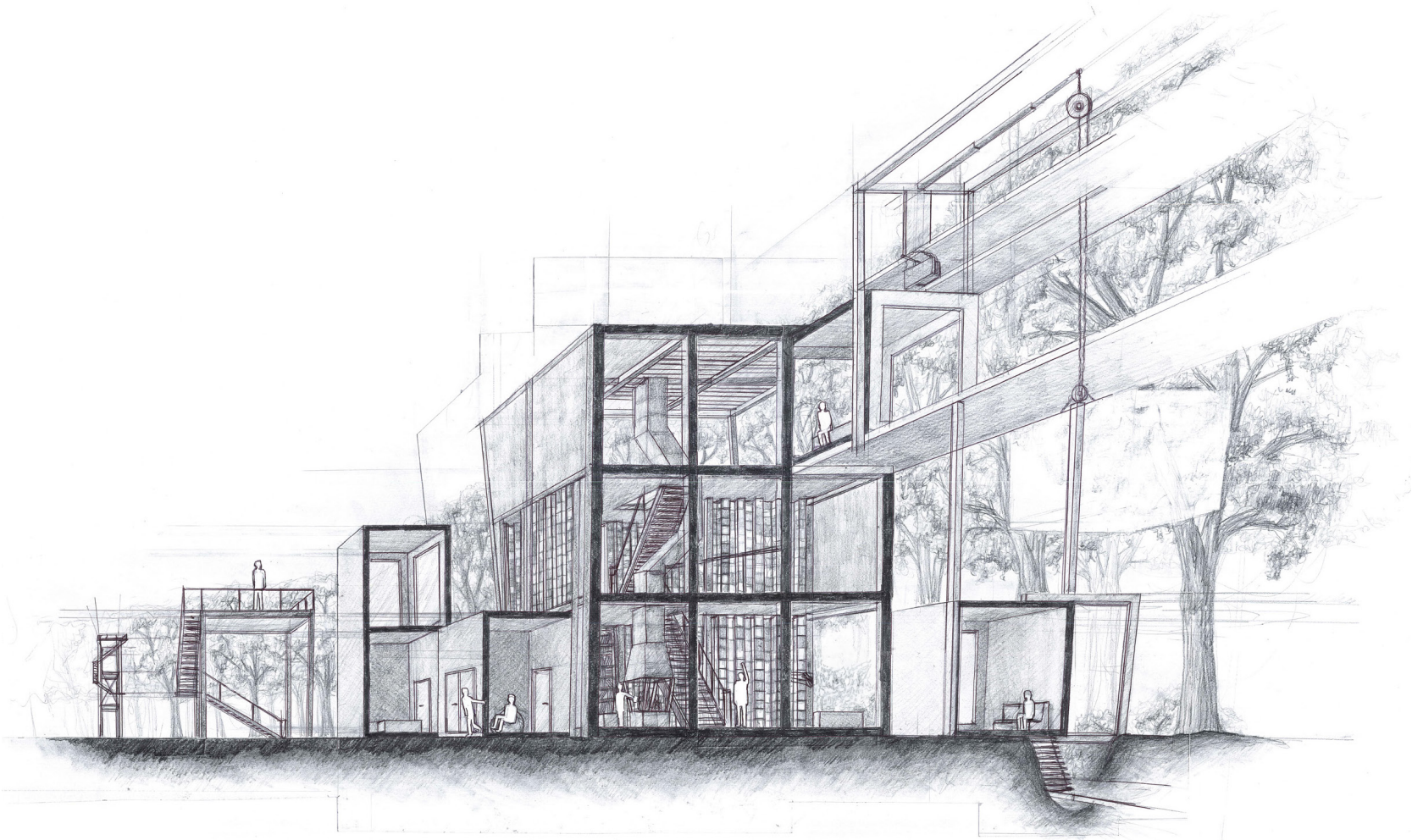


38 YEARS
EXPERIENCE



PROFİL KATALOĞU

STANDART SERİLER





HİLAL
Alüminyum





TR

Misyonumuz

ISO 9001 : 2008 kalite yönetim standartlarını rehber kabul ederek üretimden sevkiyata kadar tüm birimlerimizde kalite kontrolünü titizlikle denetleyerek profesyonel ve tecrübeli ekibimizle, müşterilerimize satış öncesi ve sonrası hizmet vermekteyiz.

Vizyonumuz

Müşteri memnuniyetini ön planda tutan, profesyonel yetkin kadromuz ile gelişen teknolojiyi yakından takip eden şirketlerimiz, yurtiçinde ve yurtdışında alüminyum sektörüne yönelik ülke ekonomisine katkıda bulunmayı kendisine şiar edinmektedir.

Hilal Alüminyum Faaliyet Alanları

- ▶ Doğrama profilleri ve aksesuarları
- ▶ Cephe sistem profilleri ve aksesuarları
- ▶ Sürme seri profilleri ve aksesuarları
- ▶ Isı bariyerli profiller ve aksesuarları
- ▶ Soğutucu profilleri
- ▶ Kış bahçesi ve üst kapama profilleri
- ▶ Sanayi profilleri
- ▶ Standart profiller

Uzmaksan Alüminyum Faaliyet Alanları

- ▶ Panjur profilleri ve aksesuarları
- ▶ Küpeşte profilleri ve aksesuarları
- ▶ Sineklik profilleri ve aksesuarları
- ▶ Seramik ve dekorasyon profilleri
- ▶ Mobilya profilleri ve aksesuarları
- ▶ Reklam profilleri ve aksesuarları

Galaksi Dış Ticaret Faaliyet Alanları

- ▶ Alüminyum aksesuarları ithalatı
- ▶ Alüminyum levha ve kompozit panel ithalatı
- ▶ Alüminyum iş makinaları ithalatı
- ▶ Arz ve talebe göre sektörünün ihtiyaç duyduğu diğer ürünlerin ithalatı

Hilal Alüminyum İth.İhr.San.Tic.Ltd.Şti.

01 Mart 1986 yılında kurulan şirketimiz, Hürriyet mahallesi Kağıthane'deki 9 katlı merkez binası sanayi marketinde, ağırlıklı olarak alüminyum profil ve aksesuarları, alüminyum işleme makineleri, alüminyum levha ve kompozit panel satışı konusunda müşterilerine hizmet vermektedir. Yurtiçinde ve yurtdışında yapılandırılmış pazarlama ağını büyük bir titizlikle takip eden firmamız, 56'dan fazla ülkeye [Doğu Avrupa, Kuzey Afrika, Orta Doğu, Orta Asya, Amerika ve Kanada] yaptığı ihracatlar neticesinde de sektördeki pazar payını her geçen gün artırmaktadır.

Uzmaksan Alüminyum İth.İhr.San.Tic.Ltd.Şti.

10 Haziran 2015 yılından itibaren Edirne Organize Sanayi Bölgesinde yeni fabrika binasına taşınarak hizmetine devam etmektedir. Firmamız ; üretmiş olduğu Alüminyum profilleri ile Türkiye genelinde sanayi, mobilya ve reklam sektörlerinin ihtiyaçlarını etkin bir biçimde karşılamaktadır .

Şile Cansu Pazarlama San.Tic.Ltd.Şti.

28 Haziran 1995 tarihinde faaliyete başlayan firmamız ZAMBAK SU markası ile bugün İstanbul sınırlarının dışına taşmakta ve Şile'deki modern dolum tesisi ve profesyonel pazarlama ağı ile hizmet vermeye devam etmektedir.

38 YEARS
EXPERIENCE

ENG

Our Mission

Under the guidance of the ISO 9001:2008 quality management standards to check the quality control in all units from the production to transportation and to provide quality service to our customers before and after sale with our professional and experienced team.

Our Vision

Keeping customer's satisfaction as number one priority and by following technological developments closely with professional team, our companies made a slogan to contribute the national economy at home and abroad intended for aluminium industry.

Working fields of Hilal Aluminium

- ▶ Aluminium Window & door system and accessories
- ▶ Facade systems profiles & accessories
- ▶ Sliding systems profiles & accessories
- ▶ Thermal isolated profiles & accessories
- ▶ Winter garden and covering profiles
- ▶ Cooling system profiles
- ▶ Standart profiles
- ▶ Industry profiles

Working fields of Uzmaksan Aluminium

- ▶ Shutter sections & accessories
- ▶ Handrail profiles & accessories
- ▶ Flyscreen profiles and accessories
- ▶ Furniture profiles and accessories
- ▶ Display profiles & accessories
- ▶ Advertisement profiles and accessories
- ▶ Ceramic profiles

Working fields of Galaksi Dış Ticaret

- ▶ Import of Aluminium Accessories
- ▶ Imports of Aluminium sheet and composite panel
- ▶ Imports of Aluminium processing machinery
- ▶ Imports of other products according to supply and demand of the sector

Hilal Aluminium Import-Export Industry Trading Ltd.

Company established on 1 March 1986, has been still maintaining its activities as Hilal Group including of 4 firms today. Hilal Aluminum gives service its customers mainly with Aluminum and PVC profiles, Aluminum and PVC profiles' accessories, Aluminum processing machines, Aluminum sheets and Composite panels in its 9-floor main building and industrial market located in Istanbul. Following domestic and foreign marketing network closely and day by day our company is increasing its market share owing to the exportation from its head sales office to more than 56 different countries which are located in Eastern Europe, North Africa, Central Africa, South Africa, America, Canada, Middle East and Middle Asia.

Uzmaksan Aluminium Import - Export Industry Trading Ltd.

It has been continuing to service by moving to new factory building in Edirne Organized Industrial Zone since June 10, 2015. Our company is able to provide with Aluminium profiles to Industry, furniture and advertisement sectors in Turkey.

Şile Cansu Pazarlama San.Tic.Ltd.Şti.

Began its operations on 28 June 1995 with ZAMBAK SU brand and goes out of Istanbul borders today. Company continues to service with its modern filling plant and professional purchasing nets in Şile.

38 YEARS
EXPERIENCE

RU

Hilal Aluminium İth.İhr.San.Tic.Ltd.Şti.

Наша корпорация была создана 1 марта 1986 года, которую на сегодня поддерживает своей деятельностью группа с 4-х фирм, в том числе и Хилал.

Хилал Алюминиум предоставляет услуги своим клиентам в следующих направлениях: алюминиевые и ПВХ профиля, аксессуары к алюминиевым и ПВХ профилям, станки для обработки алюминиевого профиля, алюминиевых листов и композитных панелей. После успешного выхода компании на отечественный и зарубежный рынок сбыта алюминия, с каждым днем мы увеличиваем свою долю продаж относительно других игроков рынка, реализовывая продукцию в более чем 56 различных стран мира, которые расположены в Восточной Европе, Северной Африке, Центральной Африке, Южной Африке, Америка, Канада Ближней Восточной и Средней Азии.

Наши цели

В соответствии с ISO 9001-2008 «Системы менеджмента качества. Требования» мы гарантируем качество всей продукции от изготовления до транспортировки. Наша профессиональная и опытная команда старается обеспечить качественное обслуживание наших клиентов от обработки индивидуальных заявок до продажи высококачественной продукции.

Наши принципы работы:

Удовлетворение потребностей наших клиентов в полной мере является для нас очень большим достижением. Наши менеджеры, которые представляют собой профессионалов в своей сфере деятельности, тщательно следят за достижениями в развитии технологий алюминиевой промышленности и сделали своим лозунгом внести вклад в национальную экономику в своей стране и за ее границами.

Рабочие сферы Hilal Alüminyum

- ▶ Алюминиевые оконно-дверные системы и аксессуары;
- ▶ Алюминиевые светопрозрачные фасады и аксессуары;
- ▶ Алюминиевые раздвижные системы и аксессуары;
- ▶ Системы термоизоляционных дверей и окон и аксессуары к ним;
- ▶ Зимний сад;
- ▶ Нанесение защитных и декоративных покрытий на

профиля из алюминиевых сплавов;

- ▶ Холодные алюминиевые профильные системы;
- ▶ Стандартные профили;
- ▶ Профили промышленного назначения.

Рабочие сферы Uzmaksan Alüminyum

- ▶ Ролетные ворота для гаражей и аксессуары к ним;
- ▶ Перильная группа алюминиевых профилей и аксессуаров;
- ▶ Москитные профили и комплектующие к ним;
- ▶ Мебельные профили и аксессуары;
- ▶ Торговые профили и аксессуары;
- ▶ Навесные вентилируемые алюминиевые фасады

Рабочие сферы Galaksi Dış Ticaret

- ▶ Импорт аксессуаров для современных алюминиевых систем;
- ▶ Импорт алюминиевых листов и композитных панелей;
- ▶ Импорт станков для обработки алюминия;
- ▶ Импорт другой продукции в зависимости от спроса и потребления на современном рынке алюминиевых строительных конструкций.

Uzmaksan Aluminium İth.İhr.San.Tic.Ltd.Şti.

наша компания UZMAKSAN продолжает свою работу с 10 июня 2015 года, после переезда в новое здание завода которая расположена Организованной промышленной зоне в городе Эдирне. Стамбул. Мы способны обеспечить алюминиевыми профилями промышленный, мебельный и торговый сектор на территории Турции.

Şile Cansu Pazarlama San.Tic.Ltd.Şti.

Компания начала свою деятельность 28 июня 1995 под брендом ZAMBAK SU в районе Шиле. Сфера деятельности фирмы – производство питьевой натуральной воды. Уже с первых месяцев своего появления на рынке, чистая вода стала популярна среди жителей Стамбула, в первую очередь, среди людей, которые ведут здоровый образ жизни. На сегодняшний день фирма “ZAMBAK SU” – это современный завод по производству очищенной воды. На данном этапе работы мы обеспечиваем водой не только жителей Стамбула, но и многих других за его границами, так как компания работает с современными методами розлива.

SERTİFİKALAR

CERTIFICATES



TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS



BELGE NUMARASI REFERENCE NUMBER OF LICENCE	075027-TSE-01/04
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	21.03.2013
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	20.12.2024
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	HİLAL ALÜMİNYUM İTHALAT İHRACAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	HÜRRİYET MAH. DR.CEMİL BENGÜ CAD. NO:62/2 KAĞITHANE İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	HİLAL ALÜMİNYUM İTHALAT İHRACAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	EDİRNE ORG. SAN. BÖLG. 5.CAD. NO:11/18 SÜLOĞLU EDİRNE / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	075027-TSE-01/03
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	hilal alüminyum ithalat ihracat sanayi ve ticaret limited şirketi
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS EN 755-1:2016 / 09.12.2016
BELGE KAPSAMI SCOPE OF LICENCE	

•ALÜMİNYUM VE ALÜMİNYUM ALAŞIMLARI

EKSTRÜZYONLA İMAL EDİLMİŞ LUMBOZ BORULAR- EN AW 6060 ALAŞIMDAN İMAL EDİLMİŞ
EKSTRÜZYONLA İMAL EDİLMİŞ LUMBOZ BORULAR- EN AW 6063 ALAŞIMDAN İMAL EDİLMİŞ

e-imzalı/e-signed

24.11.2023

Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT

İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kızıntı ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayırova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273* Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr

<https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=xfg8y7q> adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.



1 / 1



TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı Description of the Mark
TSE veya/or  veya/or T S E

BELGE NUMARASI REFERENCE NUMBER OF LICENCE	075027-TSE-02/04
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	21.03.2013
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	28.10.2024
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	HİLAL ALÜMİNYUM İTHALAT İHRACAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	HÜRRİYET MAH. DR.CEMİL BENGÜ CAD. NO:62/2 KAĞITHANE İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	HİLAL ALÜMİNYUM İTHALAT İHRACAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	EDİRNE ORG. SAN. BÖLG. 5.CAD. NO:11/18 SÜLOĞLU EDİRNE / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	075027-TSE-02/03
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	'hilal alüminyum ithalat ihracat sanayi ve ticaret limited şirketi '
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS EN 12020-1 / 02.03.2010
BELGE KAPSAMI SCOPE OF LICENCE	•ALÜMİNYUM HASSAS PROFİLLER EN AW 6060 VE EN AW 6063 ALAŞIMLI MALZEMELERDEN ISIL BARIYERLİ VE BARIYERSİZ PROFİLLER

e-imzalı/e-signed

24.11.2023

Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT

İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayıröva Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273* Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr

<https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=ic6i79hz> adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.



1 / 1



TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS



BELGE NUMARASI REFERENCE NUMBER OF LICENCE	075027-TSE-03/04
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	21.03.2013
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	20.12.2024
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	HİLAL ALÜMİNYUM İTHALAT İHRACAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	HÜRRİYET MAH. DR.CEMİL BENGÜ CAD. NO:62/2 KAĞITHANE İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	HİLAL ALÜMİNYUM İTHALAT İHRACAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	EDİRNE ORG. SAN. BÖLG. 5.CAD. NO:11/18 SÜLOĞLU EDİRNE / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	075027-TSE-03/03
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	hilal alüminyum ithalat ihracat sanayi ve ticaret limited şirketi
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS EN 755-1:2016 / 09.12.2016
BELGE KAPSAMI SCOPE OF LICENCE	

ALÜMİNYUM VE ALÜMİNYUM ALAŞIMLARI

EKSTRÜZYONLA İMAL EDİLMİŞ PROFİLLER – EN AW 6060 ALAŞIMINDAN İMAL EDİLMİŞ
EKSTRÜZYONLA İMAL EDİLMİŞ PROFİLLER – EN AW 6063 ALAŞIMINDAN İMAL EDİLMİŞ

e-imzalı/e-signed

24.11.2023

Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT

İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayırova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273 * Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta : bmb@tse.org.tr , web : www.tse.org.tr

<https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=dn8ihgwn> adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.



1 / 1



TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı Description of the Mark
TSE veya/or  veya/or T S E

BELGE NUMARASI 075027-TSE-04/04
REFERENCE NUMBER OF LICENCE

BELGENİN İLK VERİLİŞ TARİHİ 21.03.2013
DATE OF FIRST ISSUE OF LICENCE

BELGENİN SON GEÇERLİLİK TARİHİ 20.12.2024
LICENCE VALID UNTIL

BELGE SAHİBİ KURULUŞUN ADI HİHAL ALÜMİNYUM İTHALAT İHRACAT SANAYİ VE TİCARET
NAME OF THE LICENCE HOLDER LİMİTED ŞİRKETİ

BELGE SAHİBİ KURULUŞUN ADRESİ HÜRRİYET MAH. DR.CEMİL BENGÜ CAD. NO:62/2 KAĞITHANE
ADDRESS OF THE LICENCE HOLDER İSTANBUL/TÜRKİYE

ÜRETİM YERİ ADI HİHAL ALÜMİNYUM İTHALAT İHRACAT SANAYİ VE TİCARET LİMİTED
NAME OF THE MANUFACTURING PLACE ŞİRKETİ

ÜRETİM YERİ ADRESİ EDİRNE ORG. SAN. BÖLG. 5.CAD. NO:11/18 SÜLOĞLU EDİRNE /
ADDRESS OF THE MANUFACTURING PLACE TÜRKİYE

İPTAL EDİLEN BELGE NUMARASI (Varsa) 075027-TSE-04/03
INDICATION OF SUPERSEDED LICENCE (if any)

TESCİLLİ TİCARİ MARKASI hihal alüminyum ithalat ihracat sanayi ve ticaret limited
REGISTERED TRADE MARK şirketi

İLGİLİ TÜRK STANDARDI TS EN 755-1:2016 / 09.12.2016
RELATED TURKISH STANDARD

BELGE KAPSAMI
SCOPE OF LICENCE

• ALÜMİNYUM VE ALÜMİNYUM ALAŞIMLARI

EKSTRÜZYONLA İMAL EDİLMİŞ YUVARLAK ÇUBUKLAR – EN AW 6060 ALAŞIMINDAN İMAL EDİLMİŞ
EKSTRÜZYONLA İMAL EDİLMİŞ YUVARLAK ÇUBUKLAR – EN AW 6063 ALAŞIMINDAN İMAL EDİLMİŞ,

e-imzalı/e-signed

24.11.2023

Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT

İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kopya ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayırova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273* Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr

<https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=99jabyag> adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.



1 / 1

EN 15085-2**DEMİRYOLU ARAÇLARI VE BİLEŞENLERİNİN KAYNAK İŞLEMLERİ**
RAILWAY APPLICATIONS WELDING OF RAILWAY VEHICLES AND COMPONENTS

Bölüm 2:Kaynak İmalatçısının Kalite Özellikleri/Chapter2:Quality Requirements and Certification Of Welding Manufacturer
TS EN 15085-2 Belgelendirme Seviyesi CL1/ TS EN 15085-2 Certification Level CL1

Sertifika No. : 2023-11-15085-01
Certificate No.

Firma Adı ve Adresi : HİLAL ALÜMİNYUM İTH. İHR. SAN. VE TİC. LTD. ŞTİ.
Company Name and Address : Ticari Merkezi: HÜRRİYET MAH/SEMT DR. CEMİL BENGÜ CAD. NO: 62 İÇ KAPI
NO: 2 KAĞITHANE/İSTANBUL

Uygulama Alanı : Giriş ve Çıkış Kapıları - Kompartıman Kapısı
Application Area : Production of entrance and end doors (locking systems and structural elements)

Faaliyet Alanı : **P (Üretim)**
Type of Activity : P (Production)

Kaynak Prosesi Welding Process (EN ISO 4063)	Ana Malzeme Grubu Base Material Group (CEN ISO/TR 15608)	Boyutlar Dimensions	Açıklama(lar) Description(s)
131 135	22.4 1.1	3<t<12 for FW 3<t<16 mm for BW 3<t<16 mm for FW	FW BW-FW

Sorumlu Kaynak Koordinatörü
Adı Soyadı Doğum Tarihi : Osman Fehmi ERDEM EN 14731 Seviye A
Responsible Welding Coordinator
Name Surname Date of Birth : 11.08.1992

Sorumlu Kaynak Koordinatörü Yardımcısı
Adı Soyadı Doğum Tarihi : Erdiç BAŞ EN 14731 Seviye A
Responsible Welding Coordinator Deputy
Name Surname Date of Birth : 21.10.1985

Yukarıda adı geçen firma, belirtilen kapsamda Kalite Yönetim Sistemi yürürlüğe koymuş ve uygulamakta olup ilgili kalite standardına uygunluğu tarafımızdan onaylanmıştır. Bu belge, firmanın EN 15085-2 standardının gerekliliklerini yerine getirdiği ve FQC Standard Uygunluk Değerlendirme A.Ş. 'a karşı sorumluluğunu taşıdığı sürece geçerlidir.
The above-mentioned organization has implemented a Quality Management System within the scope specified and it has been endorsed by us for compliance with the relevant quality standard. This Certificate shall remain in force subject to continuing compliance with the standard EN 15085-2 and contractual requirements against FQC Standard Uygunluk Değerlendirme A.Ş.

Rapor No. : CPR-2022-10-FQC-002-R1 (ISO 15085)
Report No.

İlk Yayın Tarihi
First Issue Date
14.11.2022

Belge Düzenleme Tarihi
Document Editing Date
09.11.2023

Belge Geçerlilik Tarihi
Document Validity Date
13.11.2024

Sertifikasyon Bitiş Tarihi
Certification Expiry Date
13.11.2025



Ömer Faruk KUTLU
Belgelendirme Müdürü
Certification Manager

FQC STANDARD UYGUNLUK DEĞERLENDİRME A.Ş.



Certificate of Registration

This certificate has been awarded to

HİLAL ALÜMİNYUM SAN. VE TİC.LTD.ŞTİ

Edirne Organize Sanayi Bölgesi 5. Cad. No: 11 Domurcalı-Süloğlu EDİRNE, Türkiye

in recognition of the organization's Quality Management System which complies with

IATF 16949:2016

The scope of activities covered by this certificate is defined below

**Manufacture of Extruded Aluminium Profiles (Excludes Product Design under Clause 8.3)
- [USI 62M9XY]**

Certificate Number **205069/A/0001/SM/En**

A certificate number of 0001, confirms the Client has a single site Certified. If the site is their Head Office or Main site in relation to the certified scope with URS. A certificate number of 0002, or greater (e.g. 1000/8/0002/UKEn) refers to a client that has more than one site certified with URS, as such, the following statement shall apply: "The validity of this certificate depends on the validity of the main certificate."

Date of Issue of Certification Cycle	Issue Number	Certificate Expiry Date	Certification Cycle
09 August 2023	2	08 August 2026	2
Revision Date	Revision Number	Original Certificate Issue Date	Scheme Number
09 August 2023	0	11 August 2020	0480637

For detailed explanation for the data fields above, refer to <http://www.urs-holdings.com/logos-and-regulations>

Issued by

Mukesh Singhal - On behalf of the Schemes Manager



If there is any doubt as to the authenticity of this certificate, please do not hesitate to contact the Head Office of the Group on info@urs-certification.com.
URS is a member of United Registrar of Systems (Holdings) Ltd, United House, 28 Poole Hill, Bournemouth BH4 5PS, UK. Company Registration no. 5298466



Certificate of Registration

This certificate has been awarded to

HİLAL ALÜMİNYUM SAN. VE TİC.LTD.ŞTİ

Edirne Organize Sanayi Bölgesi 5. Cad. No: 11 Domurcalı-Süloğlu EDİRNE, Türkiye

in recognition of the organization's Quality Management System which complies with

ISO 9001:2015

The scope of activities covered by this certificate is defined below

Manufacture of Extruded Aluminium Profiles (Excludes Product Design under Clause 8.3)
- [USI 62M9XY]

Certificate Number **205069/AA/0001/SM/En**

A certificate number of 0001 confirms the Client has a single site Certified & the site is their Head Office or Main site in relation to the Certified scope with URS. A certificate number of 0002, or greater (e.g. xxx/0/0002/UK/En) refers to a client that has more than one site certified with URS, as such, the following statement shall apply: "The validity of this certificate depends on the validity of the main certificate."

Date of Issue of Certification Cycle	Issue Number	Certificate Expiry Date	Certification Cycle
09 August 2023	2	08 August 2026	2
Revision Date	Revision Number	Original Certificate Issue Date	Scheme Number
09 August 2023	0	11 August 2020	

For detailed explanation for the data fields above, refer to <http://www.urs-holdings.com/logos-and-regulations>

Issued by

Mukesh Singhal - On behalf of the Schemes Manager



If there is any doubt as to the authenticity of this certificate, please do not hesitate to contact the Head Office of the Group on info@urs-certification.com. URS is a member of United Registrar of Systems (Holdings) Ltd, United House, 28 Poole Hill, Bournemouth BH2 5PS, UK. Company Registration no. 5296466



SERTİFİKA

Bu Sertifika,

**HİLAL ALÜMİNYUM İTHALAT İHRACAT SANAYİ VE TİCARET LİMİTED
ŞİRKETİ**

Dr. Cemil Bengü Caddesi No: 62/2 Kağıthane/İSTANBUL

kuruluşunun,

**Sanayi ve demir yolları araçları için kaynaklı ve talaşlı imalat ile metal ve
metal dışı yedek parça imalatı**

EA 17-22
kapsamında,

TS EN ISO 9001:2015

Kalite Yönetim Sistemi Standardının şartlarına uyan bir yönetim sistemi
kurduğunu ve uyguladığını onaylamak üzere verilmiştir.

İlk Yayın Tarihi : 11.11.2022
Belge Tarihi : 01.12.2023
Belge Periyodu : 3 Yıl
Bitiş Tarihi : 10.11.2024
Sertifika No : KQ.2023.605



TÜRKAK BDS NO
YS-14E3-32F2



Best Quality Services
Sertifika Onayı



BQS BELGELENDİRME VE EĞİTİM HİZMETLERİ LTD. ŞTİ.
Mahfesiğmaz Mah. 79159 Sk. No:3/1 Merve Apt. B Blok D:2 Çukurova/ADANA/TÜRKİYE
T / P : +90 322 234 81 22 E-mail: info@bqs.com.tr

BEST QUALITY SERVICES



Sertifika

ISO 14001 : 2015

**HİLAL ALÜMİNYUM İTH. İHR.
SAN. VE TİC. LTD. ŞTİ.**

Dr. Cemil Bengü Cad. No:62/2 Kağıthane/İstanbul/TÜRKİYE
Fabrika: Edirne Organize Sanayi Bölgesi 5. Cad. No:11-8 Süloğlu/Edirne/TÜRKİYE

Bu sertifika yukarıdaki kuruluşa ait çevre yönetim sisteminin aşağıdaki kapsam çerçevesinde PCA Sertifikasyon tarafından onaylandığını göstermekte olup, sertifikanın geçerliliği kuruluşun yıllık gözetim denetimlerinden geçmesine ve Uluslararası akreditasyon kuralları gereğince ilgili yönetim sisteminin şartlarını devam ettirmesine bağlıdır.

KAPSAM

Alüminyum profil üretimi ve doğrama üretimi

EA KODU

17

Sertifika No : CY-34057
Tescil Tarihi : 12.04.2023
Yeniden Basım Tarihi :
Geçerlilik Tarihi : 11.04.2024
Belge Periyodu : 3 Yıl (Tescil Tarihinden itibaren)



PCA Sertifikasyon Onayı

PCA Sertifikasyon Hizmetleri Limited Şirketi
Orta Mah. Ordu Sk. İzpark C Blok No:26/23 Kartal / İSTANBUL
Tel: +90 216 510 63 48-49 Pbx Faks: +90 216 517 63 49
www.pca-tr.com info@pca-tr.com

FR.86 Rev.4

PCA
PARTNERS CERTIFICATE
ASSURANCE



Sertifika

ISO 9001 : 2015

**HİLAL ALÜMİNYUM İTH. İHR.
SAN. VE TİC. LTD. ŞTİ.**

Dr. Cemil Bengü Cad. No:62/2 Kağıthane/İstanbul/TÜRKİYE
Şube: Organize San. Böl. Mah. 5. Cad. No: 5 Süloğlu/Edirne/TÜRKİYE

Bu sertifika yukarıdaki kuruluşa alt kalite yönetim sisteminin aşağıdaki kapsam çerçevesinde PCA Sertifikasyon tarafından onaylandığını göstermekte olup, sertifikanın geçerliliği kuruluşun yıllık gözetim denetimlerinden geçmesine ve Uluslararası akreditasyon kuralları gereğince ilgili yönetim sisteminin şartlarını devam ettirmesine bağlıdır.

KAPSAM

Alüminyum profil üretimi ve doğrama üretimi

EA KODU
17

Sertifika No : KY-28640
Tescil Tarihi : 26.04.2023
Yeniden Basım Tarihi :
Geçerlilik Tarihi : 25.04.2024
Belge Periyodu : 3 Yıl (Tescil Tarihinden itibaren)
Harç Tutma :

IAS
ACCREDITED
Management
Systems
Certification Body
MSCB-103

PCA Sertifikasyon Onayı

PCA Sertifikasyon Hizmetleri Limited Şirketi
Orta Mah. Ordu Sk. İzpark C Blok No:26/23 Kartal / İSTANBUL
Tel: +90 216 510 63 48-49 Pbx Faks: +90 216 517 63 49
www.pca-tr.com info@pca-tr.com

FR.86 Rev.4



TÜRK LOYDU

TL No : 2021-0229

TL ES No : 3551-210323143553-001

Yayın Tarihi : 23.03.2021
Date of Issue

FABRİKA ÜRETİM KONTROL UYGUNLUK BELGESİ CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

<1785-CPR-0055>

Avrupa Parlamentosu ve Konseyinin 9 Mart 2011 tarihli 305/2011/AB Yapı Malzemeleri Yönetmeliği'ne uygun olarak
bu sertifika aşağıdaki yapı malzemeleri için
In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Yapısal amaçlı alüminyum ve alüminyum alaşımlı ürünler, EN 1090-3, EXC2'ye kadar
Kaynaklı imalat ve boya işi hariç
yapısal işlerde kullanılmak üzere, EN 1090-1:2009+A1:2011 ZA.3.2, ZA.3.4'e göre CE markalı olarak
*Aluminium and aluminium alloy products for structural purposes up to EXC2 acc. to EN 1090-3
Weld and painting excluded
for structural steel, CE-marking method ZA3.2. and ZA.3.4. acc. to EN 1090-1:2009+A1:2011*

placed on the market under the name or trade mark of

HİLAL ALÜMİNYUM İTHALAT VE İHRACAT SAN. VE TİC. LTD. ŞTİ.
Hürriyet Mh. Dr. Cemil Bengü Cd. No:62 Kağıthane/İSTANBUL
tarafından

and produced in the manufacturing plant (s)

HİLAL ALÜMİNYUM İTHALAT VE İHRACAT SAN. VE TİC. LTD. ŞTİ.
Edirne Org. San. Böl. 5. Cad. No:11-8, Domurcalı / Süloğlu / EDİRNE
tesisinde üretilmektedir.

Bu belge standardın Ek ZA'sında açıklanan performans süreklilik değerlendirme ve doğrulama ile ilgili tüm hükümlerin
karşılandığını gösterir.

*This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in
Annex ZA of the standard(s)*

EN 1090-1 : 2009+A1:2011

Sistem 2+ uygulanmıştır ve

under system 2+ is applied and that

fabrika üretim kontrolünün yürürlükteki şartlara uygun olduğu değerlendirilir.

the factory production control is assessed to be in conformity with the applicable requirements.

Bu belge, 23.03.2021 tarihinde ilk olarak yayınlanmış olup; uyumlaştırılmış standart, yapı ürünü, PDDD yöntemleri veya tesisteki
üretim koşulları değişmediği, Onaylanmış Fabrika Üretim Kontrolü Belgelendirme Kuruluşu tarafından askıya alınmadığı veya iptal
edilmediği sürece 22.03.2024 tarihine kadar geçerli olacaktır.

*This certificate was first issued on the 23.03.2021 and will remain valid until 22.03.2024 as long as neither the harmonised standard,
the construction product, the AFPC methods, nor the manufacturing conditions in the plant are modified significantly, unless
suspended or withdrawn by the notified factory production control certification body.*

Murat DEVERE

Ürün Belgelendirme Komitesi Başkanı
Head of Product Certification Committee

Nurdan ERGAN

Teknik Yönetici
Technical Manager

Yönetmeliğe uygun olarak ürünün sorumluluğu imalatçı veya yetkili temsilcisine aittir. Yönetmelikte belirtilen üretim/ürün değerlendirme sistemine
tamamen uyulduğu zaman uygunluk işareti üzerine konulabilir ve uygunluk beyanı düzenlenebilir.
Türk Loydu'nun herhangi bir ihmali dolayısıyla sebep olduğu kayıp ve hasarların ıspatlanması durumunda, kayıplara "Mesleki Sorumluluk Sigortası"
limitleri dahilinde tazminat ödenir.

*The product liability rests with the manufacturer or his representative in accordance with the directive. The conformity marking may only be affixed to the product and
a Declaration of Conformity may only be issued when the production/product assessment system referred in the directive is fully complied with.
If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Türk Loydu, that loss compensated within the limits of
"Professional Indemnity Insurance".*

TÜRK LOYDU – Evliya Çelebi Mh. Tersaneler Cd. No:26/1 – 34944 Tuzla/İSTANBUL – Tel: 0216 581 37 00 – E-posta: endustri@turkloydu.org

**TÜRK LOYDU**

TL No : 2021-0228

TL ES No : 3551-210323143145-001

Yayın Tarihi : 05.03.2021
Date of Issue**FABRİKA ÜRETİM KONTROL UYGUNLUK BELGESİ**
CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

<1785-CPR-0054>

Avrupa Parlamentosu ve Konseyinin 9 Mart 2011 tarihli 305/2011/AB Yapı Malzemeleri Yönetmeliği'ne uygun olarak
bu sertifika aşağıdaki yapı malzemeleri için
In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products
Regulation or CPR), this certificate applies to the construction product

Yapısal amaçlı alüminyum ve alüminyum alaşımlı ürünler-Yapısal işlerde kullanılmak üzere, korozyondan koruma işi hariç
Aluminium and aluminium alloy products for structural purposes - For structural works, no corrosion protection work excluded

Ürün Product	Genel Hükümler General Conditions	Spesifik Şartlar Specific Conditions		Boyutlar Dimensions	Alaşım Alloys
		Mekanik Özellikler Mechanical Spec.	Toleranslar Tolerances		
Ekstrüzyonla İmalat Edilmiş Profil	EN 755-1	EN 755-2	EN 755-9	Çevre çapı 155 mm'den küçük ürünler ($\leq \emptyset$ 155mm) Products with circumference diameter less than 155 mm ($\leq \emptyset$ 155 mm)	EN AW 6060 EN AW 6063
Ekstrüzyonla İmalat Edilmiş Hassas Profil	EN 12020-1	EN 755-2	EN 12020-2	Çevre çapı 155 mm'den küçük ürünler ($\leq \emptyset$ 155 mm) Products with circumference diameter less than 155 mm ($\leq \emptyset$ 155 mm)	

placed on the market under the name or trade mark of
HİHAL ALÜMİNYUM İTHALAT VE İHRACAT SAN. VE TİC. LTD. ŞTİ.
Hürriyet Mh. Dr. Cemil Bengü Cd. No:62 Kağıthane/İSTANBUL
tarafından
and produced in the manufacturing plant (s)
HİHAL ALÜMİNYUM İTHALAT VE İHRACAT SAN. VE TİC. LTD. ŞTİ.
Edirne Org. San. Bölge. 5. Cad. No:11-8, Domurcalı / Süloğlu / EDİRNE
tesisinde üretilmektedir.



Bu belge standardın Ek ZA'sında açıklanan performans süreklilik değerlendirme ve doğrulama ile ilgili tüm hükümlerin karşılandığını gösterir.

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

EN 15088:2005

Sistem 2+ uygulanmıştır ve
under system 2+ is applied and that

fabrika üretim kontrolünün yürürlükteki şartlara uygun olduğu değerlendirilir.
the factory production control is assessed to be in conformity with the applicable requirements.

Bu belge, 06.03.2015 tarihinde ilk olarak yayınlanmış olup; uyumlaştırılmış standart, yapı ürünü, PDDD yöntemleri veya tesisteki üretim koşulları değişmediği, Onaylanmış Fabrika Üretim Kontrolü Belgelendirme Kuruluşu tarafından askıya alınmadığı veya iptal edilmediği sürece 04.03.2024 tarihine kadar geçerli olacaktır.

This certificate was first issued on the 06.03.2015 and will remain valid until 04.03.2024 as long as neither the harmonised standard, the construction product, the AVCP methods, nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

Murat DEVREZÜrün Belgelendirme Komitesi Başkanı
Head of Product Certification Committee**Nurden ERGAN**Teknik Yönetici
Technical Manager

Yönetmeliğe uygun olarak ürünün sorumluluğu imalatçı veya yetkili temsilcisine aittir. Yönetmelikte belirtilen üretim/ürün değerlendirme sistemine tamamen uyulduğu zaman uygunluk işareti üzerine konulabilir ve uygunluk beyanı düzenlenebilir.
Türk Loydu'nun herhangi bir ihmali dolayısıyla sebep olduğu kayıp ve hasarların ispatlanması durumunda, kayıplara "Mesleki Sorumluluk Sigortası" limitleri dahilinde tazminat ödenir.

The product liability rests with the manufacturer or his representative in accordance with the directive. The conformity marking may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment system referred in the directive is fully complied with.
If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Türk Loydu, that loss compensated within the limits of "Professional Indemnity Insurance".

TÜRK LOYDU – Evliya Çelebi Mh. Tersaneler Cd. No:26/1 – 34944 Tuzla/İSTANBUL – Tel: 0216 581 37 00 – E-posta: endustri@turkloydu.org



İÇİNDEKİLER INDEX



ALDOKS SERİSİ	19
WINDOWS DOOR SYSTEM	
AHŞAP KASA PROFİLLERİ	41
WOODEN DOOR FRAME PROFILES	
ARA BÖLME PROFİLLERİ	51
PARTITION PROFILES	
HC60 SERİ	59
HC60 SERIE	
DAR TUBA SERİSİ	87
SLIDING WINDOWS SERIE	
GENİŞ TUBA SERİSİ	99
SLIDING WINDOWS SERIE	
VERANDA PROFİLLERİ	109
VERANDA PROFILES	
KOMPOZİT PROFİLLERİ	129
COMPOSITE PANEL PROFILES	
KÜPEŞTE PROFİLLERİ	137
HANDRAILS PROFILES	
KARE KÜPEŞTE PROFİLLERİ	181
SQUARE HANDRAILS PROFILES	
CAM KÜPEŞTE PROFİLLERİ	191
GLASS HANDRAILS PROFILES	
MOBİLYA PROFİLLERİ	197
FURNITURE PROFILES	
SERAMİK PROFİLLERİ	223
CERAMIC PROFILES	
TEMİZ ODA PROFİLLERİ	251
COOLING ROOM PROFILES	
VİTRİN PROFİLLERİ	259
SHOWCASE PROFILE	
GÜNEŞ KIRICI PROFİLLER	263
SUNBREAKER PROFILES	
ZEMİN PROFİLLERİ	269
FLOORING PROFILE	
PANJUR PROFİLLERİ	283
SHUTTER PROFILES	
DENİZLİK, SÜPÜRGELİK PROFİLLERİ	291
WINDOWSILL, SKIRTING PROFILES	
BORU PROFİLLERİ	297
PIPE PROFILES	
DİKDÖRTGEN VE KARE PROFİLLER	301
RECTANGULAR AND SQUARE PROFILES	
KÖŞEBENT, T, U VE LAMA PROFİLLERİ	305
KÖŞEBENT, T, U AND FLAT BAR PROFILES	



HİLAL
Alüminyum

PROFİL KATALOĞU

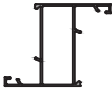
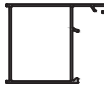
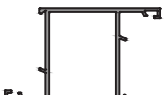
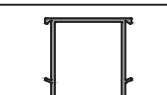
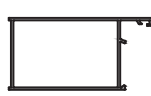
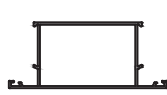
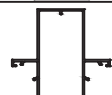
ALDOKS SERİSİ

WINDOWS DOOR SYSTEM

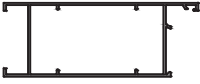
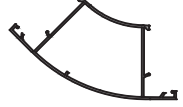
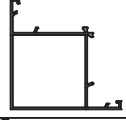
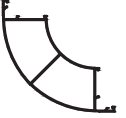
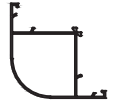
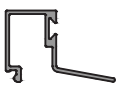
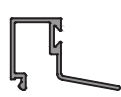
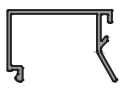
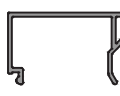
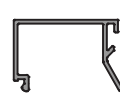
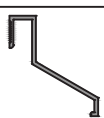
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

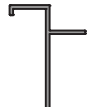
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1339	Dar Kasa Profili	0,460 kg/m	5,38	1,88	
	1338	Dar Kanat Profili	0,549 kg/m	8,05	2,53	
	1340	Dar Orta Kayıt Profili	0,549 kg/m	6,05	3,99	
	1096	Kasa Profili	0,599 kg/m	8,60	5,58	
	2937	Kasa Profili	0,888 kg/m	11,47	8,09	
	1095	Kanat Profili	0,699 kg/m	13,42	6,10	
	2411	Kanat Profili	1,041 kg/m	18,20	8,80	
	1097	Orta Kayıt Profili	0,696 kg/m	10,48	8,44	
	2412	Orta Kayıt Profili	1,041 kg/m	14,12	12,26	
	2860	Geniş Kasa Profili	1,061 kg/m	33,19	13,67	
	2120	Geniş Kanat Profili	1,166 kg/m	44,27	14,45	
	2859	Geniş Orta Kayıt Profili	1,189 kg/m	43,58	15,81	
	2123	Takviyeli Kasa Profili	1,086 kg/m	34,34	14,41	
	2124	Takviyeli Kanat Profili	1,191 kg/m	34,37	16,37	

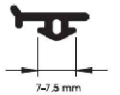
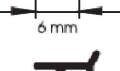
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	2121	Etek Profili	1,287 kg/m	63,94	18,08	
	4157	135° Dönüş Profili	0,974 kg/m	...	...	
	4158	90° Dönüş Profili	0,806 kg/m	...	...	
	4159	90° Dönüş Profili	1,520 kg/m	...	...	
	4160	90° Dönüş Profili	0,720 kg/m	...	...	
	4161	Tırnak Adaptörü	0,272 kg/m	...	...	
	4162	Düz Seri Çarpma Kapı Adaptörü	0,341 kg/m	...	...	
	4163	Düz Seri Çarpma Kapı Adaptörü	0,260 kg/m	...	...	
	1750	Cam Çıtası	0,215 kg/m	...	...	
	1090	Cam Çıtası	0,232 kg/m	...	...	
	1749	Tek Cam Çıtası	0,215 kg/m	...	...	
	2413	Tek Cam Çıtası	0,243 kg/m	...	...	
	1088	Tek Cam Çıtası	0,232 kg/m	...	...	
	1094	Damlalık	0,188 kg/m	...	...	

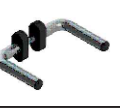
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

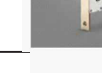
PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				$J_x \text{ (cm}^4\text{)}$	$J_y \text{ (cm}^4\text{)}$	
	1404	Fugalı Te Bini	0,275 kg/m	...	...	
	1175	İspayolet Yuvası	0,135 kg/m	...	...	
	1176	Fugalı Te Bini	0,94 kg/m	...	...	
	1406	Dar U Bağlantı Profili	0,451 kg/m	...	...	
	1330	Geniş U Bağlantı Profili	0,627 kg/m	...	...	
	1114	Köşebent	0,823 kg/m	...	...	
	1333	Köşe Takoğu	0,772 kg/m	...	...	
	1099	Köşe Takoğu	1,122 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

AKSESUAR KESİTİ	AKSESUAR KODU	AKSESUAR ADI	AĞIRLIK	PAKETLEME	SAYFA NO
 HA57-01 CAM FİTİLİ 1 Pk 100mt 6,10kg GLASS GASKET	HA57-01	Cam Fitiği	6,10 kg	1 Pk/ 100mt	
 HA57-02 CAM FİTİLİ 1 Pk 100mt 7,85kg GLASS GASKET	HA57-02	Cam Fitiği	7,85 kg	1 Pk/ 100mt	
 HA57-03 CAM FİTİLİ 1 Pk 100mt 8,80kg GLASS GASKET	HA57-03	Cam Fitiği	8,80 kg	1 Pk/ 100mt	
 HA57-04 OMEGA FİTİLİ 1 Pk 100mt 2,6kg OMEGA GASKET	HA57-04	Omega Fitiği	2,60 kg	1 Pk/ 100mt	
 HA57-05 OMEGA FİTİLİ 1 Pk 100mt 2,8kg OMEGA GASKET	HA57-05	Omega Fitiği	2,80 kg	1 Pk/ 100mt	
 HA59-06/1/1 HA59-06/1/2	HA59-06/1/1 HA59-06/1/2	Çakma Fitiği	3,30 kg	1 Pk/ 100mt	
 HA59-06/1/3 HA59-06/1/4	HA59-06/1/3 HA59-06/1/4	Çakma Fitiği	3,80 kg	1 Pk/ 100mt	
 HA57-15	HA57-15	Aldoks Fitiği	1,80 kg ...	1 Pk/ 100mt	
 HA57-16	HA57-16	Aldoks Fitiği	2,10 kg	1 Pk/ 100mt	
 HA57-18	HA57-18	Aldoks Çift Kulak Fitiği	2,60 kg	1 Pk/ 100mt	
 HA57-19	HA57-19	Aldoks Çift Kulak Fitiği	2,80 kg	1 Pk/ 100mt	
 HA57-22	HA57-22	Maçalı Fitiği	2,30 kg	1 Pk/ 100mt	
 HA57-23	HA57-23	Maçalı Fitiği	2,80 kg	1 Pk/ 100mt	
 HA57-24	HA57-24	Maçalı Fitiği	3,20 kg	1 Pk/ 100mt	

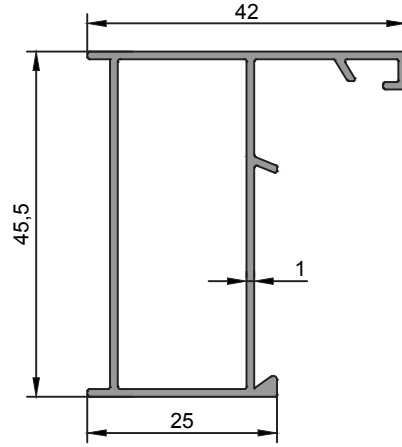
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

AKSESUAR KESİTİ	AKSESUAR KODU	AKSESUAR ADI	AĞIRLIK	PAKETLEME	SAYFA NO
	HA32-15/1/8	Aldoks Menteşe Düz	...	240 Ad/ 1 Paket	
	HA32-15/2/7	Aldoks Menteşe Fugalı	...	240 Ad/ 1 Paket	
	HA32-08/5	İspanyollet Kol Parmak İzli Çatallı	...	120 Ad/ 1 Paket	
	HA31-01	Yaylı Sosis Kol	...	50 Ad/ 1 Paket	
	HA31-09/2	Geniş Aynalı Sosis Kol	...	25 Ad/ 1 Paket	
	HA31-11	Kıvrık Boru Kol	...		
	HA31-28	Bant Lama Kol	...		
	HA31-16	Yarım Ay Döküm Kol	...	30 Ad/ 1 Paket	
	HA32-16/2	Düz Aldoks Geçme Menteşe	...	240 Ad/ 1 Paket	
	HA32-19/3-4E	Üstten Monteli Menteşe	...	250 Ad/ 1 Paket	
	HA32-05/1	Aldoks Dilli Kilit Karşılığı	...	550 Ad/ 1 Paket	
	HA33-05/1	Aldoks Makaralı Kilit Karşılığı	...	550 Ad/ 1 Paket	
	HA33-04/2	Alüminyum Kapı Altı Fırçası	...	100 Ad/ 1 Paket	
	HA32-34/1	Aldoks Pim Takımı	...	100 Ad/ 1 Paket	

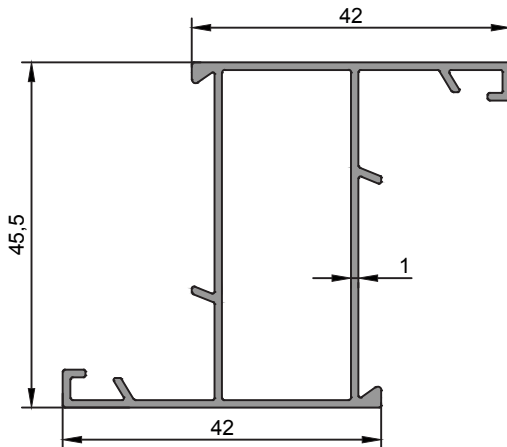
AKSESUAR KESİTİ	AKSESUAR KODU	AKSESUAR ADI	AĞIRLIK	PAKETLEME	SAYFA NO
	HA32-31	Alüminyum İspanyolet Tija Çubuğu	...	100 Ad/ 1 Paket	
	HA31-26	Saplama Takımı	...	50 Ad/ 1 Paket	
	HA33-08/2	Aldoks Vasistas Makas 13 cm	...	700 Ad/ 1 Paket	
	HA33-08/1	Aldoks Vasistas Makas 22 cm	...	500 Ad/ 1 Paket	
	HA33-16	Gömme Sürgü	...	500 Ad/ 1 Paket	
	HA32-27/1	Saç Geniş Orta Kayıt Bağlantı	...	100 Ad/ 1 Paket	
	HA32-28/2	Saç Alyan Bağlantı	...	250 Ad/ 1 Paket	
	HA34-04-N	153 20 mm 62 mm Barelli Nikel Kilit	...	30 Ad/ 1 Paket	
	HA35-15/1	269 WC 20 mm Aldoks Kilit Barelsiz Nikel	...	40 Ad/ 1 Paket	
	HA34-01/2/2	68 mm Cerman Mandallı Nikel Barel	...	12 Ad/ 1 Paket	
	HA32-22/3	Aldoks Baba Menteşe	...	120 Ad/ 1 Paket	
	HA33-15	Aldoks Vasistas Çarpma	...	500 Ad/ 1 Paket	
	HA31-25	Kare Kol	...	180 Ad/ 1 Paket	
	HA31-21	D Kol	...	40 Ad/ 1 Paket	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

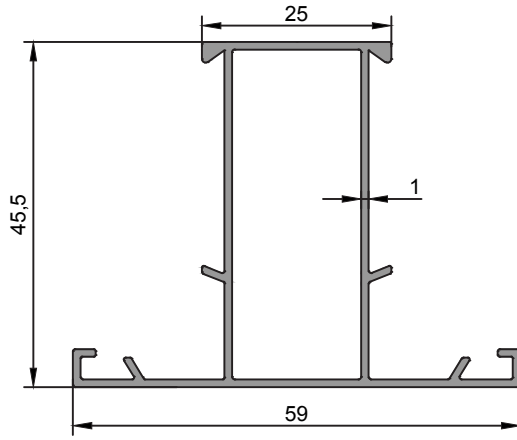


1339
Dar Kasa Profili
0,460 kg/m
$Jx=5,38 \text{ cm}^4$ $Jy=1,88 \text{ cm}^4$

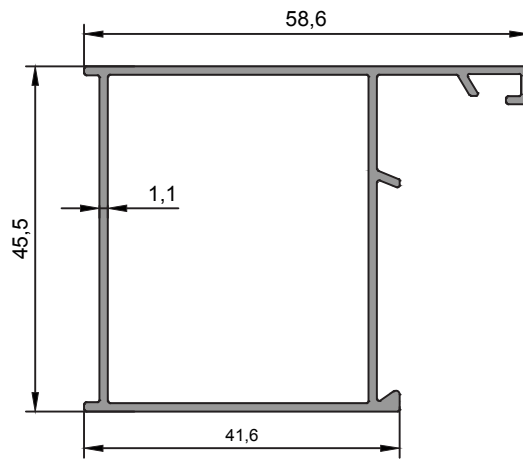


1338
Dar Kanat Profili
0,549 kg/m
$Jx=8,05 \text{ cm}^4$ $Jy=2,53 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

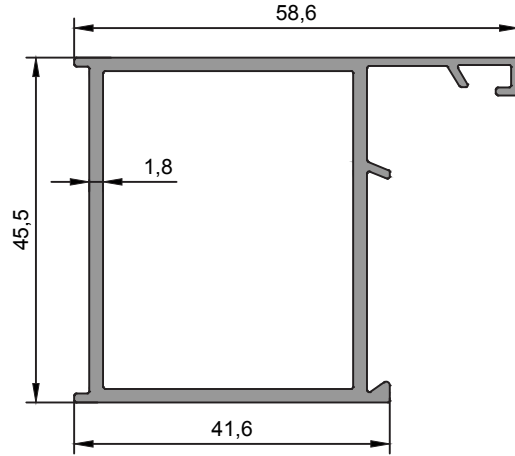


1340
Dar Orta Kayıt Profili
0,549 kg/m
$Jx=6,05 \text{ cm}^4$ $Jy=3,99 \text{ cm}^4$



1096
Kasa Profili
0,599 kg/m
$Jx=8,60 \text{ cm}^4$ $Jy=5,58 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

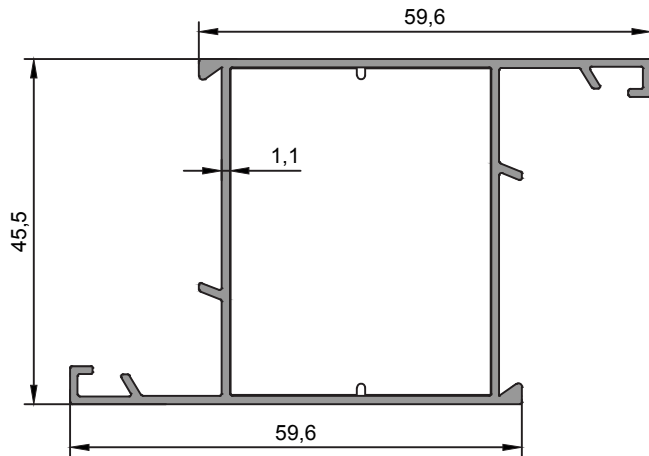


2937

Kasa Profili

0,888 kg/m

Jx=11,47 cm⁴ Jy=8,09 cm⁴

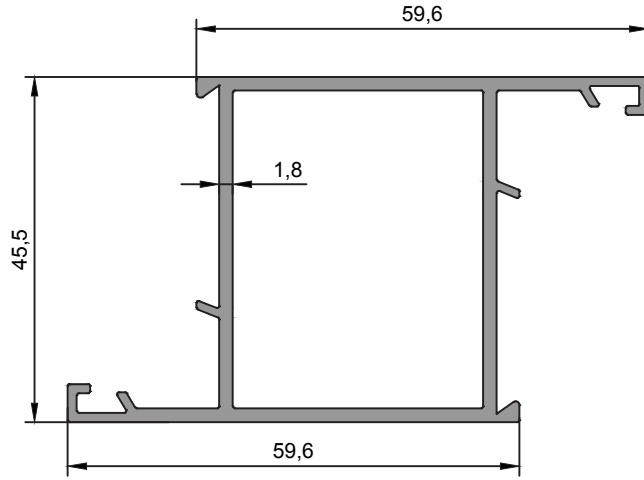


1095

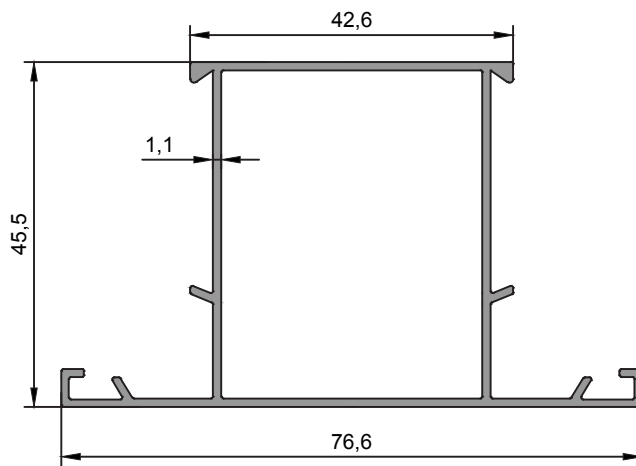
Kanat Profili

0,699 kg/m

Jx=13,42 cm⁴ Jy=6,10 cm⁴



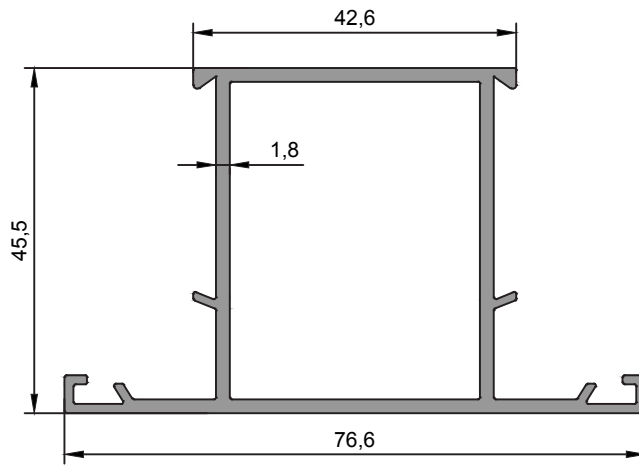
2411
Kanat Profili
1,041 kg/m
$Jx=18,20 \text{ cm}^4$ $Jy=8,80 \text{ cm}^4$



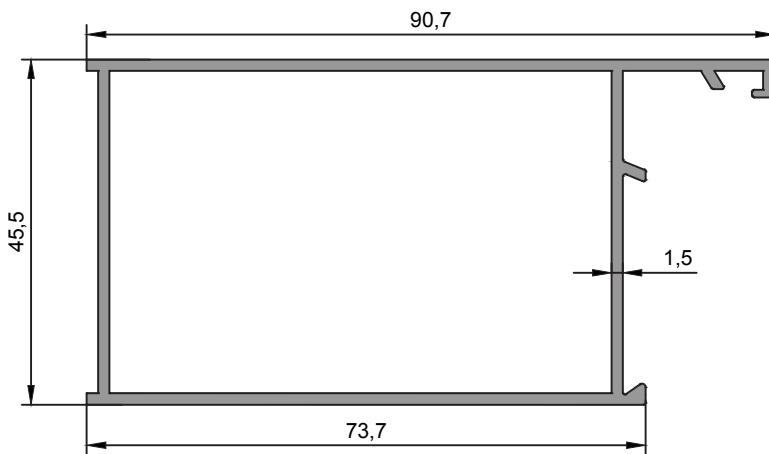
1097
Orta Kayıt Profili
0,696 kg/m
$Jx=10,48 \text{ cm}^4$ $Jy=8,44 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

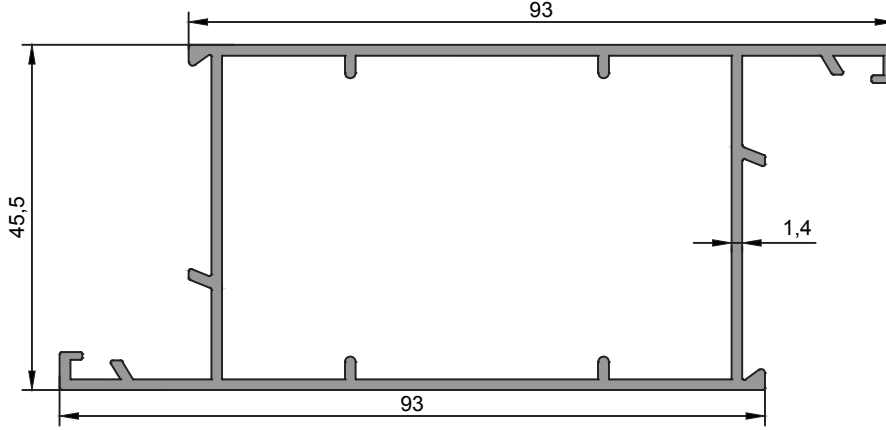
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



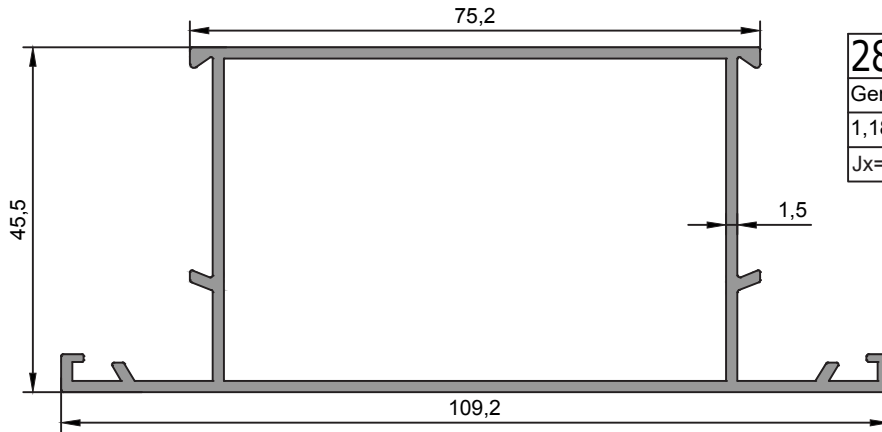
2412
Orta Kayıt Profili
1,041 kg/m
$Jx=14,12 \text{ cm}^4$ $Jy=12,26 \text{ cm}^4$



2860
Geniş Kasa Profili
1,061 kg/m
$Jx=33,19 \text{ cm}^4$ $Jy=13,67 \text{ cm}^4$



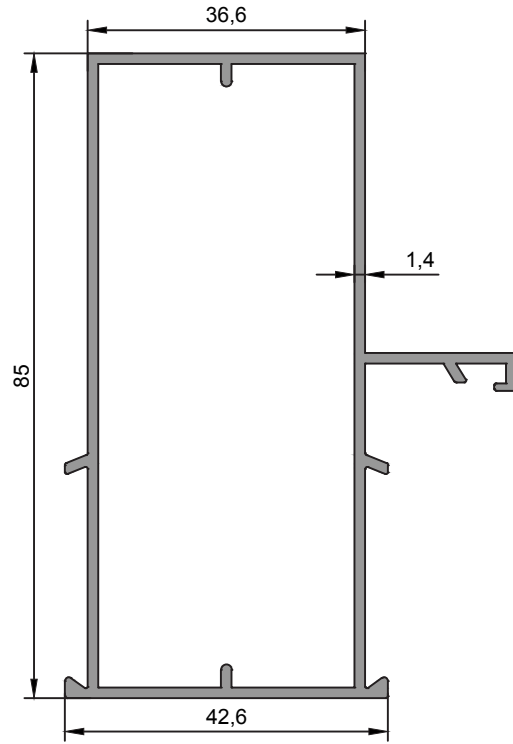
2120
Geniş Kanat Profili
1,166 kg/m
$Jx=44,27 \text{ cm}^4$ $Jy=14,45 \text{ cm}^4$



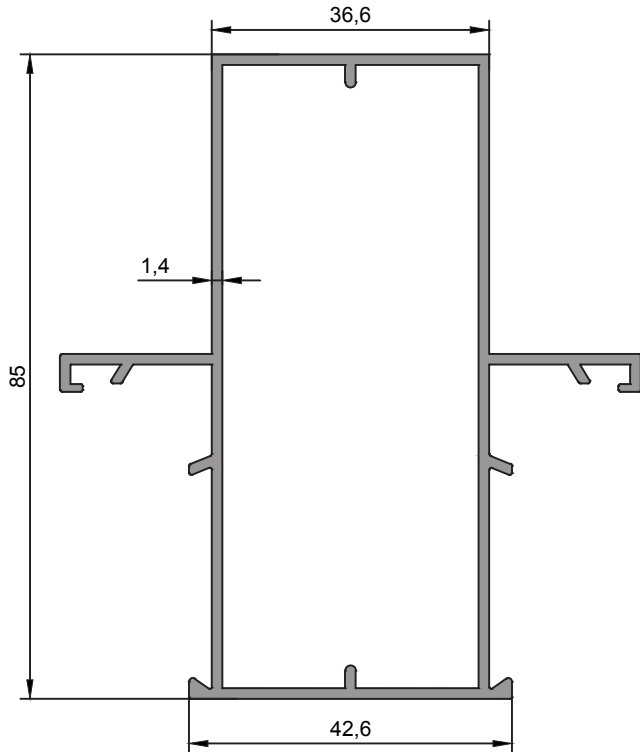
2859
Geniş Orta Kayıt Profili
1,189 kg/m
$Jx=43,58 \text{ cm}^4$ $Jy=15,81 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

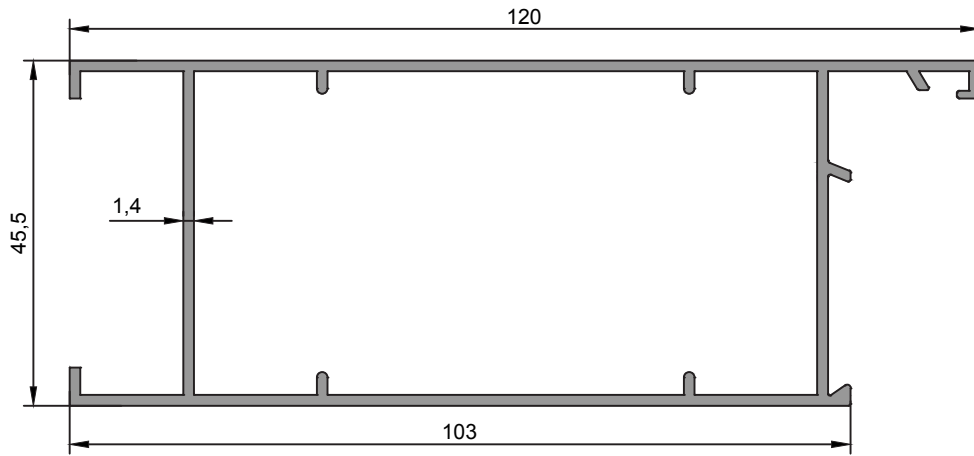


2123
Takviyeli Kasa Profili
1,086 kg/m
Jx=34,34 cm ⁴ Jy=14,41 cm ⁴



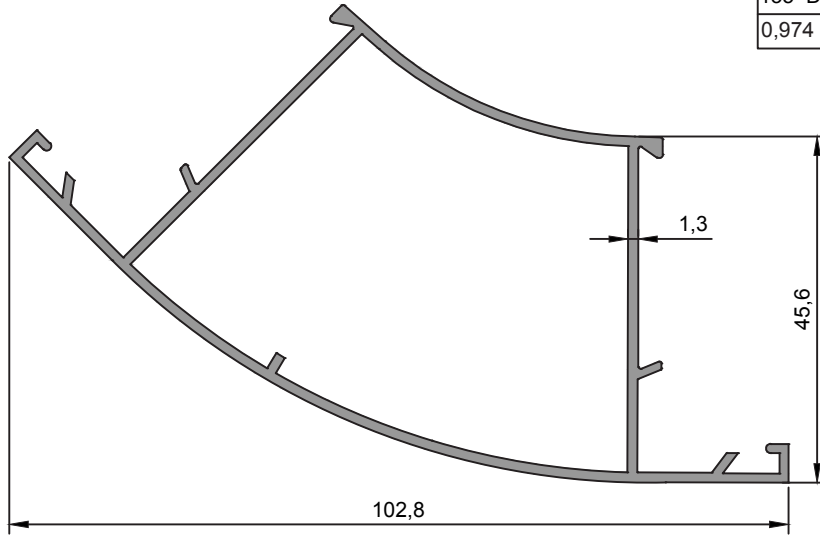
2124
Takviyeli Kanat Profili
1,191 kg/m
Jx=34,37 cm ⁴ Jy=16,37 cm ⁴

2121
Etek Profili
1,287 kg/m
$Jx=63,94 \text{ cm}^4$ $Jy=18,08 \text{ cm}^4$

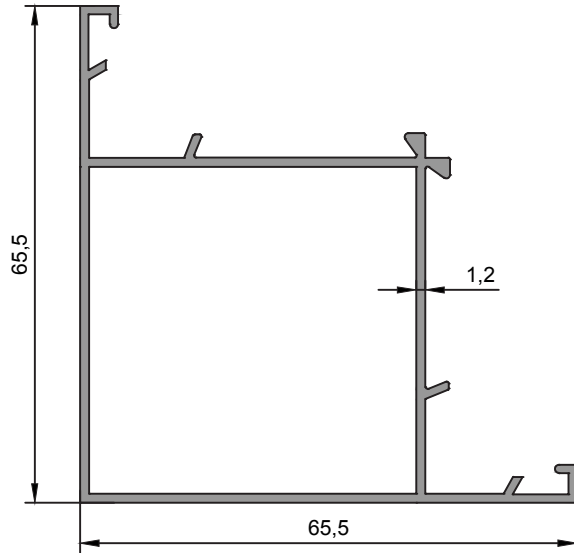


★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

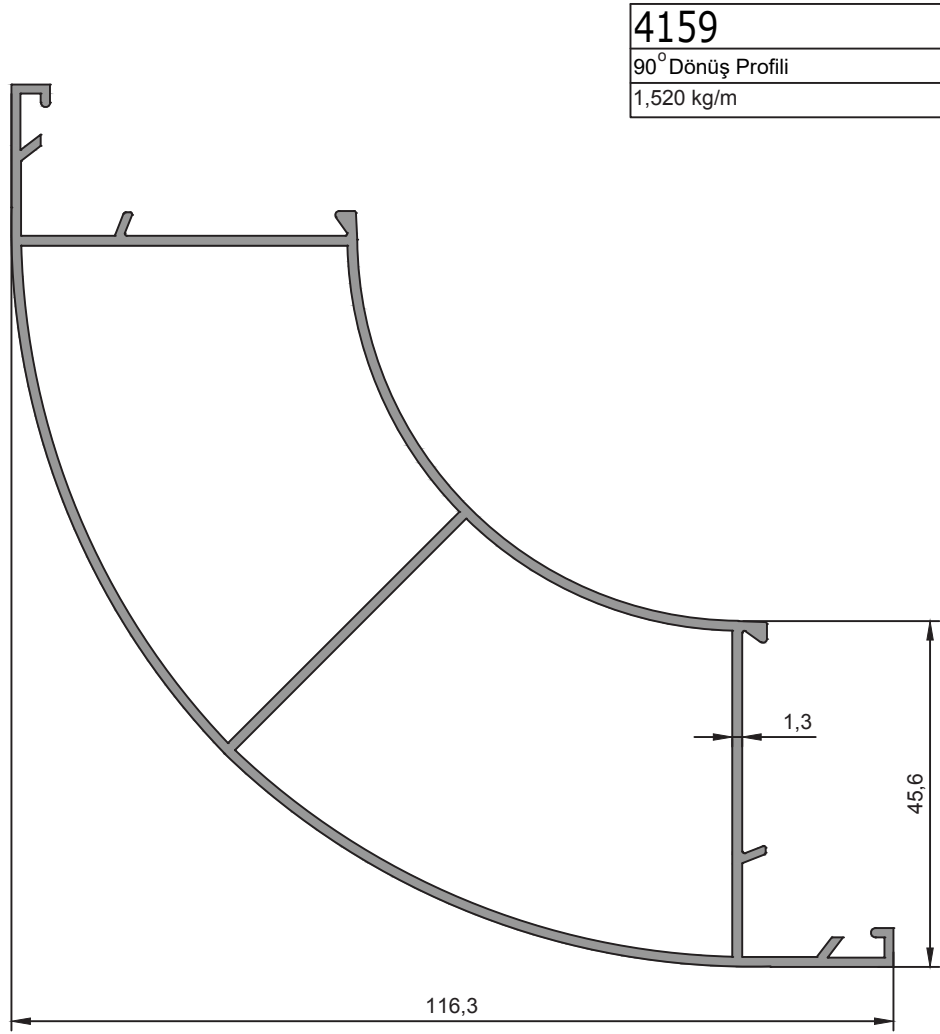


4157
135° Dönüş Profili
0,974 kg/m

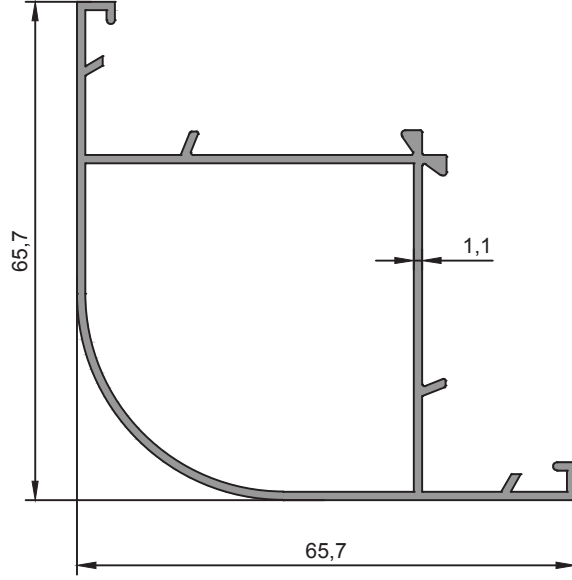


4158
90° Dönüş Profili
0,806 kg/m

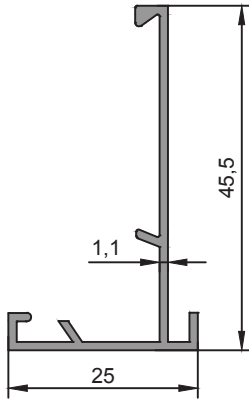
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



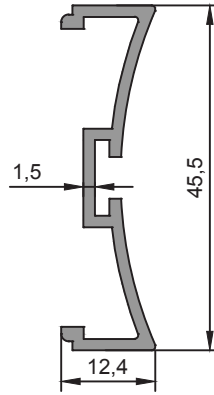
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



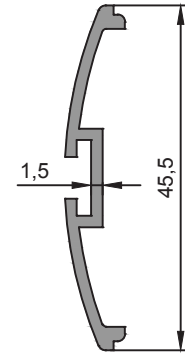
4160
90° Dönüş Profili
0,720 kg/m



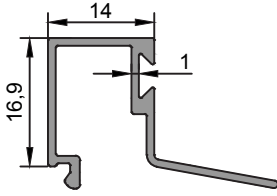
4161
Tırnak Adaptörü
0,272 kg/m



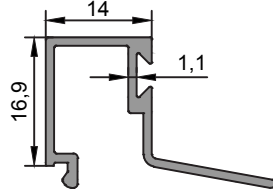
4162
Düz Seri Çarpma Kapı Adaptörü
0,341 kg/m



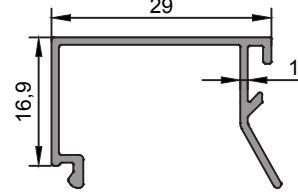
4163
Düz Seri Çarpma Kapı Adaptörü
0,260 kg/m



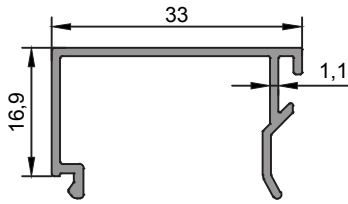
1750
Cam Çıtası
0,215 kg/m



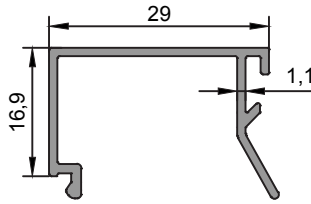
1090
Cam Çıtası
0,232 kg/m



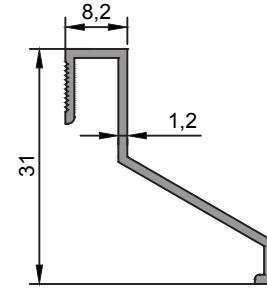
1749
Tek Cam Çıtası
0,215 kg/m



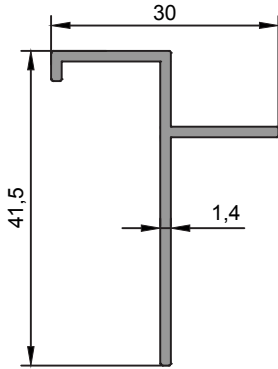
2413
Tek Cam Çıtası
0,243 kg/m



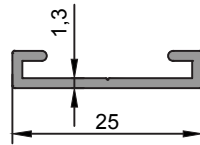
1088
Tek Cam Çıtası
0,232 kg/m



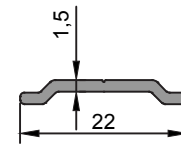
1094
Fugalı Te Bini
0,188 kg/m



1404
Fugalı Te Bini
0,275 kg/m

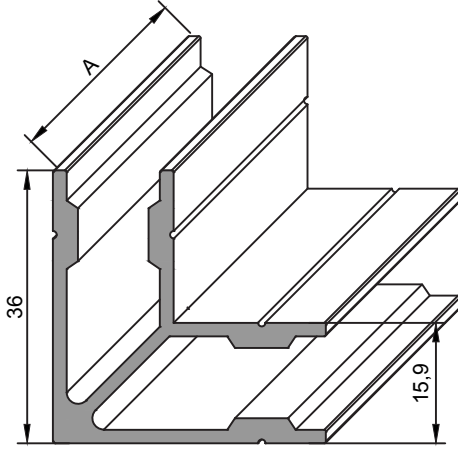


1175
İspanyolet Yuvası
0,135 kg/m

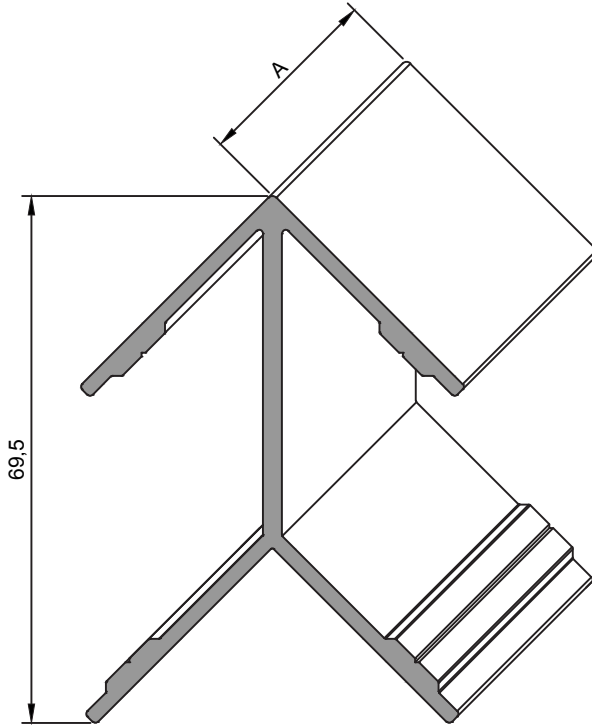


1176
İspanyolet Çubuğu
0,94 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

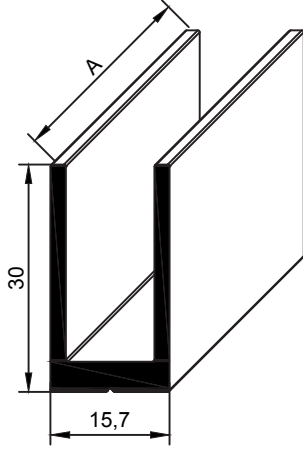


1333
Köşe Takozu
0,772 kg/m

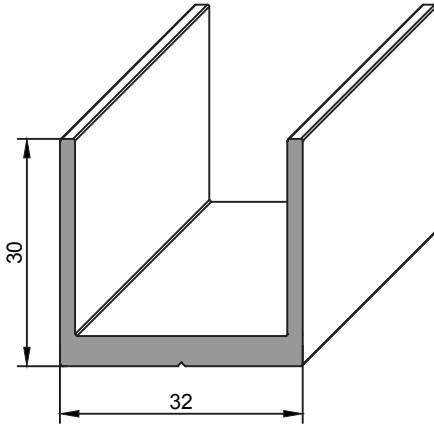


1099
Köşe Takozu
1,122 kg/m

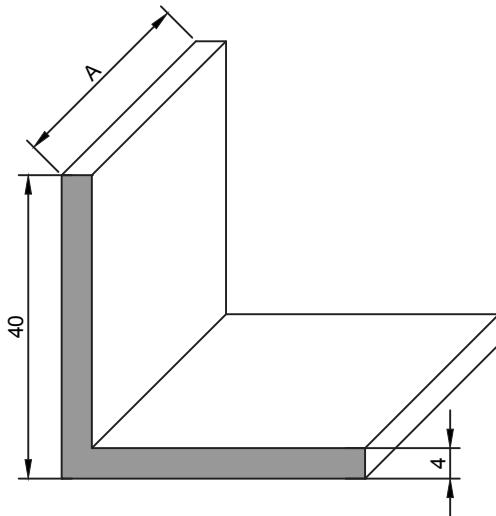
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



1406
Dar U Bağlantı Profili
0,451 kg/m



1330
Geniş U Bağlantı Profili
0,627 kg/m



1114
Köşebent
0,823 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



HİLAL
Alüminyum

PROFİL KATALOĞU

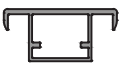
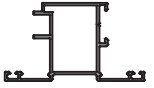
AHŞAP KASA PROFİLLERİ

WOODEN DOOR FRAME PROFILES

★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

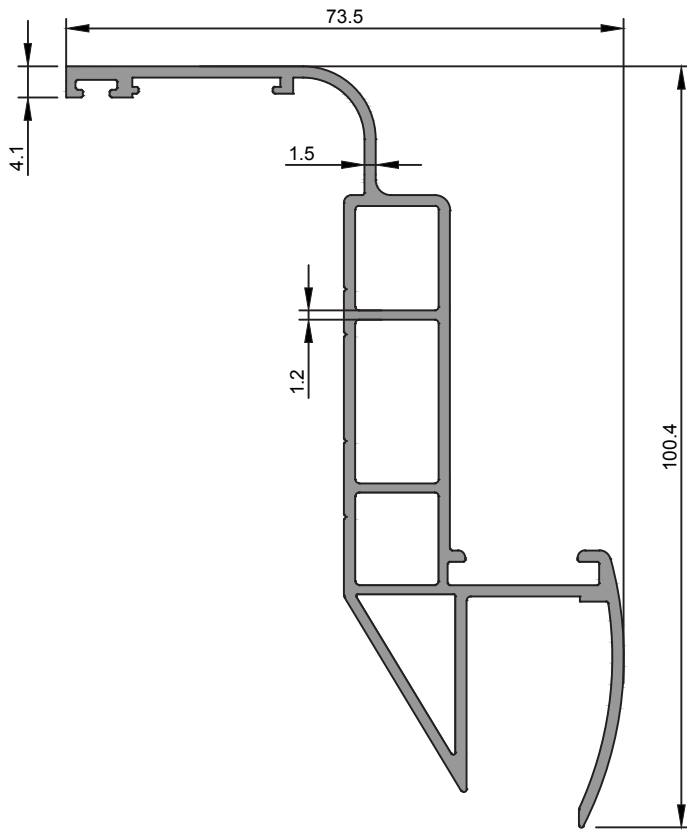
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	3270	İç Kasa Profili	1,300 kg/m	51,40	5,00	
	3271	Dış Kasa Profili	1,062 kg/m	35,41	7,02	
	3162	Lambiri	0,455 kg/m	4,02	0,57	
	3163	Kapı Kenarı Profili	0,497 kg/m	2,80	0,96	
	2941	Dış Kasa Profili	1,110 kg/m	39,23	9,79	
	2940	İç Kasa Profili	1,529 kg/m	43,08	9,80	
	3289	Çift Kanat Adaptörü	0,883 kg/m	11,08	7,83	
	2942	Alt Etek Profili	0,959 kg/m	10,64	2,25	
	2943	Kapı Profili	0,918 kg/m	10,23	2,71	

AKSESUAR KESİTİ	AKSESUAR KODU	AKSESUAR ADI	AĞIRLIK	PAKETLEME	SAYFA NO
	HL37	Kanal Dolgu Filiti	107 gr/m	15 kg/ 140 m	
	HA32-30/1/2	10x19 mm Zamak Köşe	...	1 Ad/ Paket	
	HA32-30/2/2	10x24 mm Zamak Köşe	...	1 Ad/ Paket	
	HA32-26/5	Panel Menteşe	...	1 Ad/ Paket	
	HA-32-26/5-1	Kelebek Menteşe	...	1 Ad/ Paket	
	152RP45	Kapı Kiliti	...	1 Ad/ Paket	
	HA31-07/G63-1	Paslanmaz Yuvarlak Rozetli Sosis Kol	...	1 Ad/ Paket	
	HA31-07/G63	Paslanmaz Yuvarlak Rozetli Sosis Kol(WC İçin)	...	1 Ad/ Paket	
	HA39-04	Pervaz Köşesi L İnce Onbaşı	...	...	

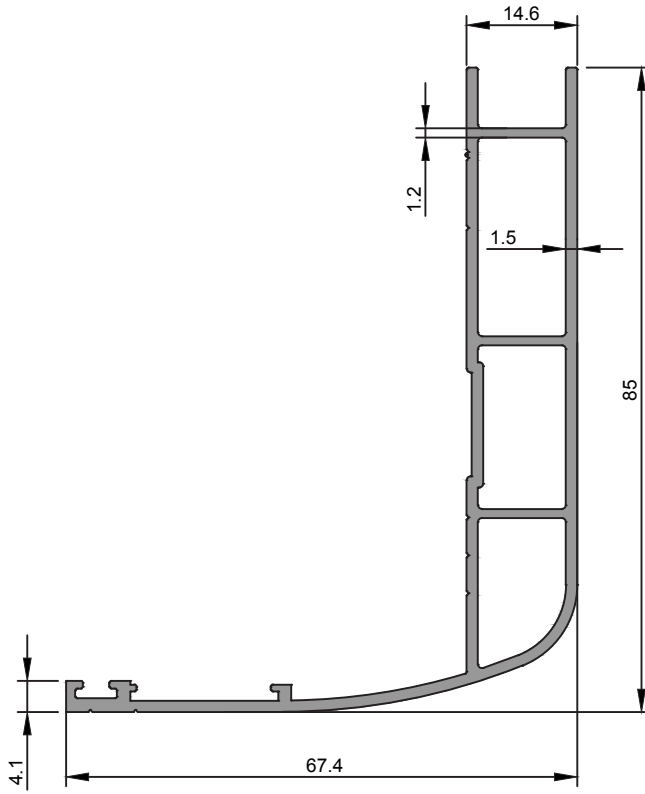
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



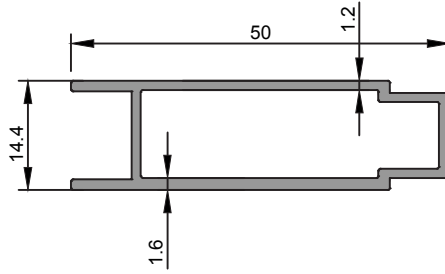
3270
İç Kasa
1,300 kg/m
$Jx=51,40 \text{ cm}^4$ $Jy=5,00 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

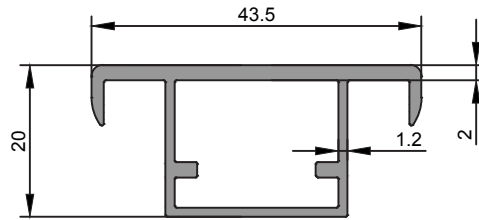


3271
Dış Kasa
1,062 kg/m
$Jx=35,41 \text{ cm}^4$ $Jy=7,02 \text{ cm}^4$

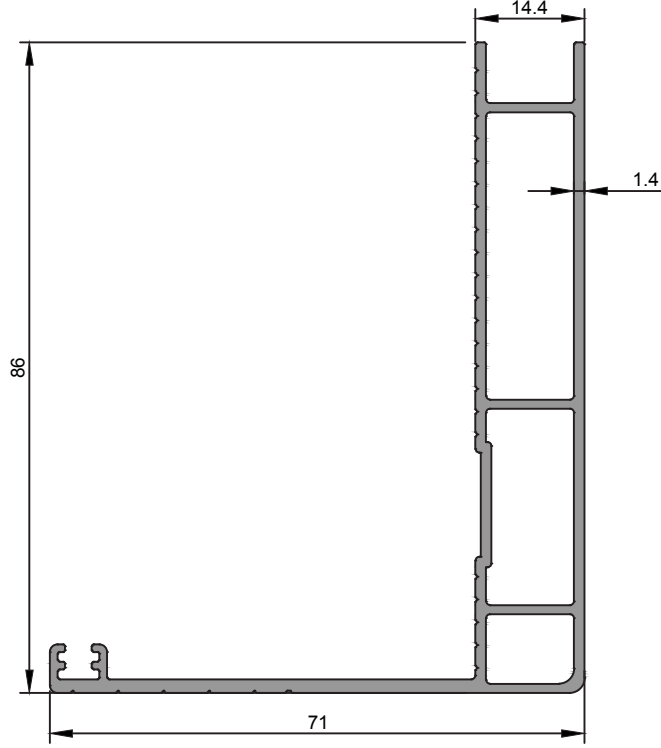
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



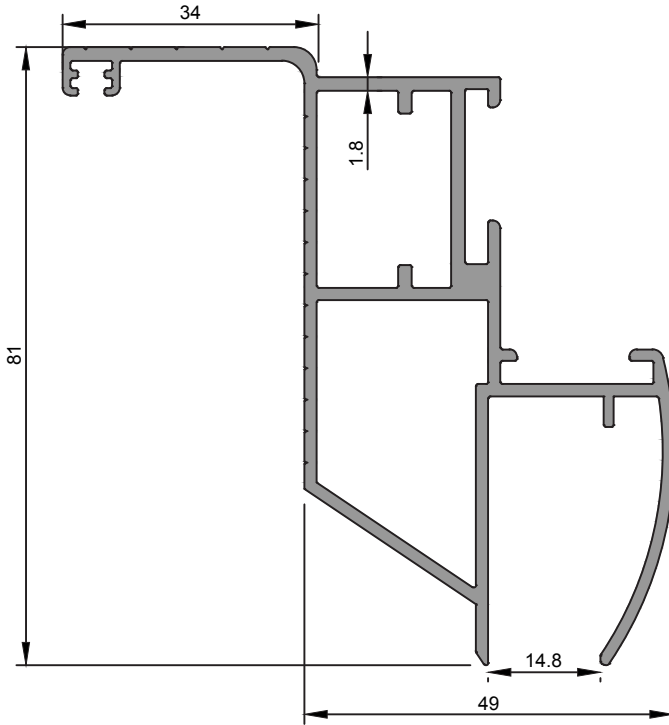
3162
Lambiri
0,455 kg/m
$Jx=4,02 \text{ cm}^4$ $Jy=0,57 \text{ cm}^4$



3163
Kapı Kenarı
0,497 kg/m
$Jx=2,80 \text{ cm}^4$ $Jy=0,96 \text{ cm}^4$



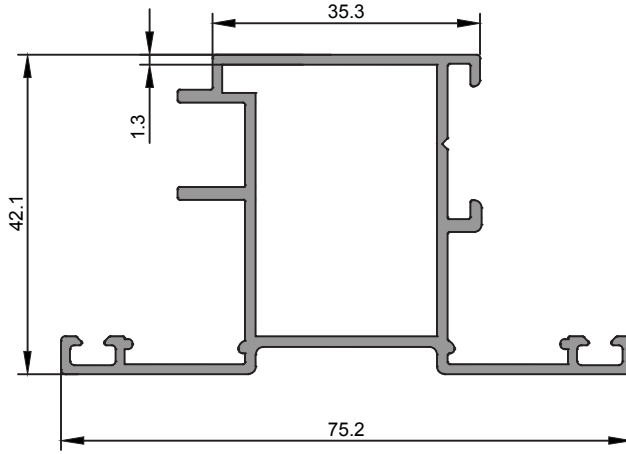
2941
Dış Kasa
1,110 kg/m
Jx=39,23 cm ⁴ Jy=9,79 cm ⁴



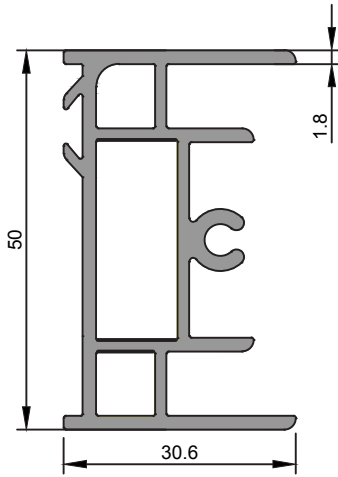
2940
İç Kasa
1,529 kg/m
Jx=43,08 cm ⁴ Jy=9,80 cm ⁴

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

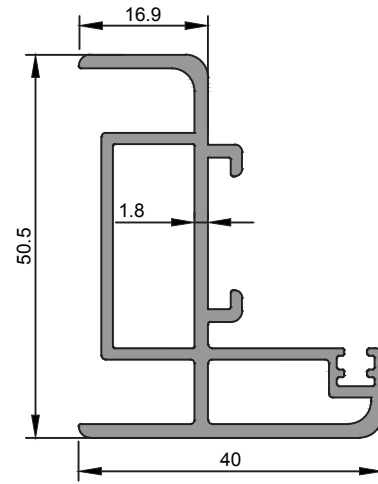
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



3289
Çift Kanat Adaptörü
0,883 kg/m
Jx=11,08 cm ⁴ Jy=7,83 cm ⁴

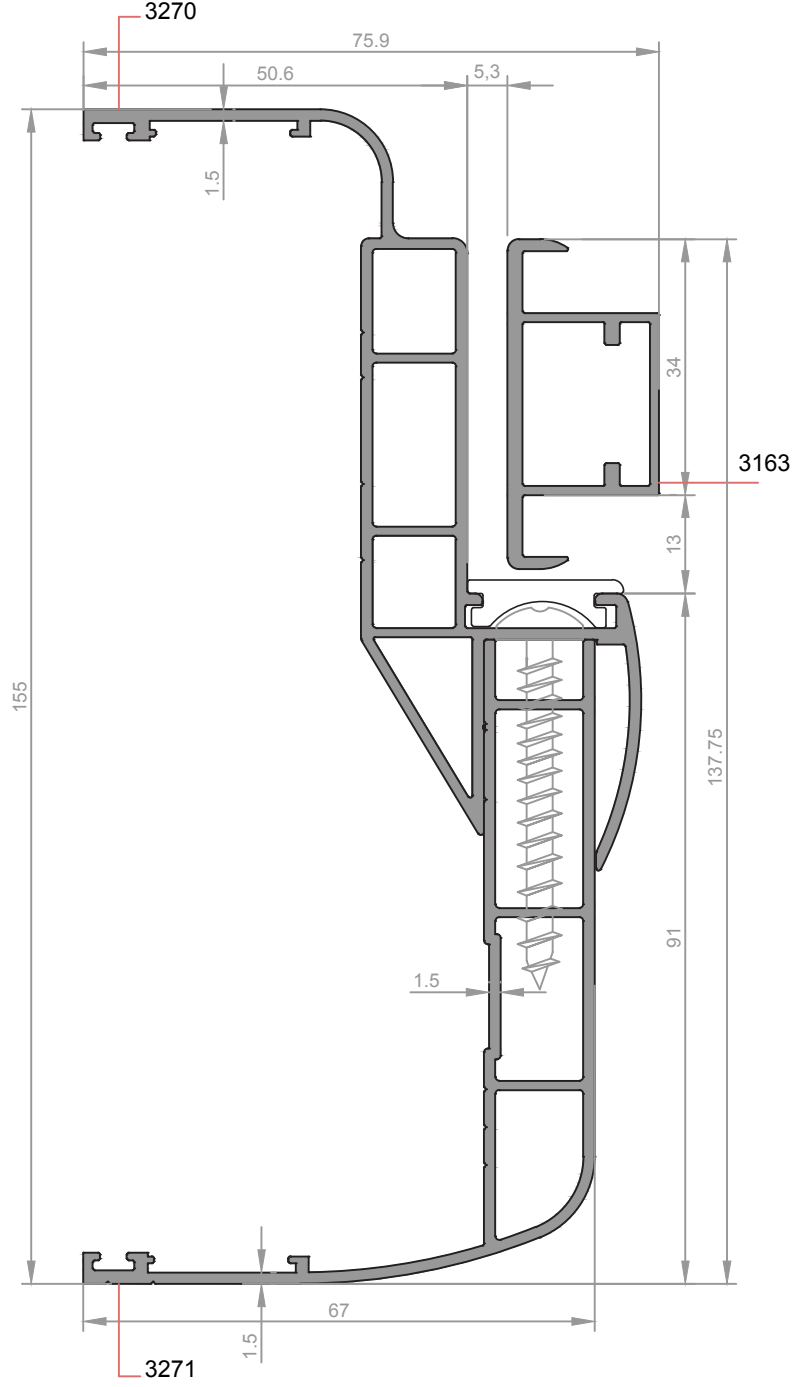


2942
Alt Etek
0,959 kg/m
Jx=10,64 cm ⁴ Jy=2,25 cm ⁴

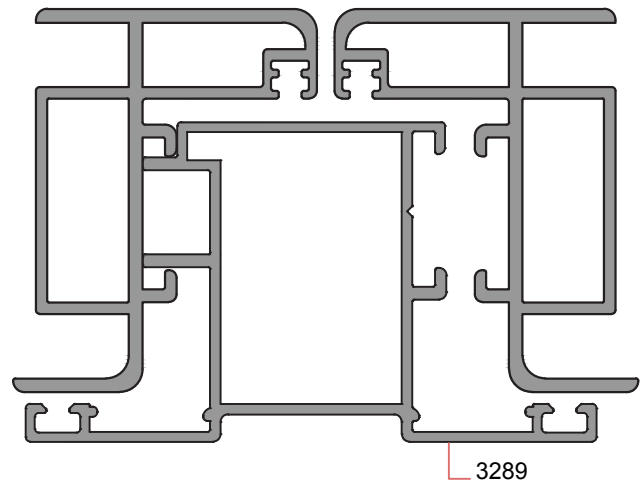
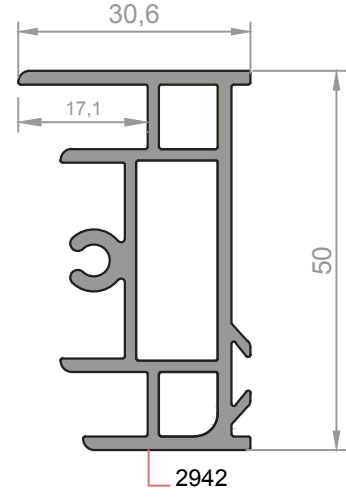
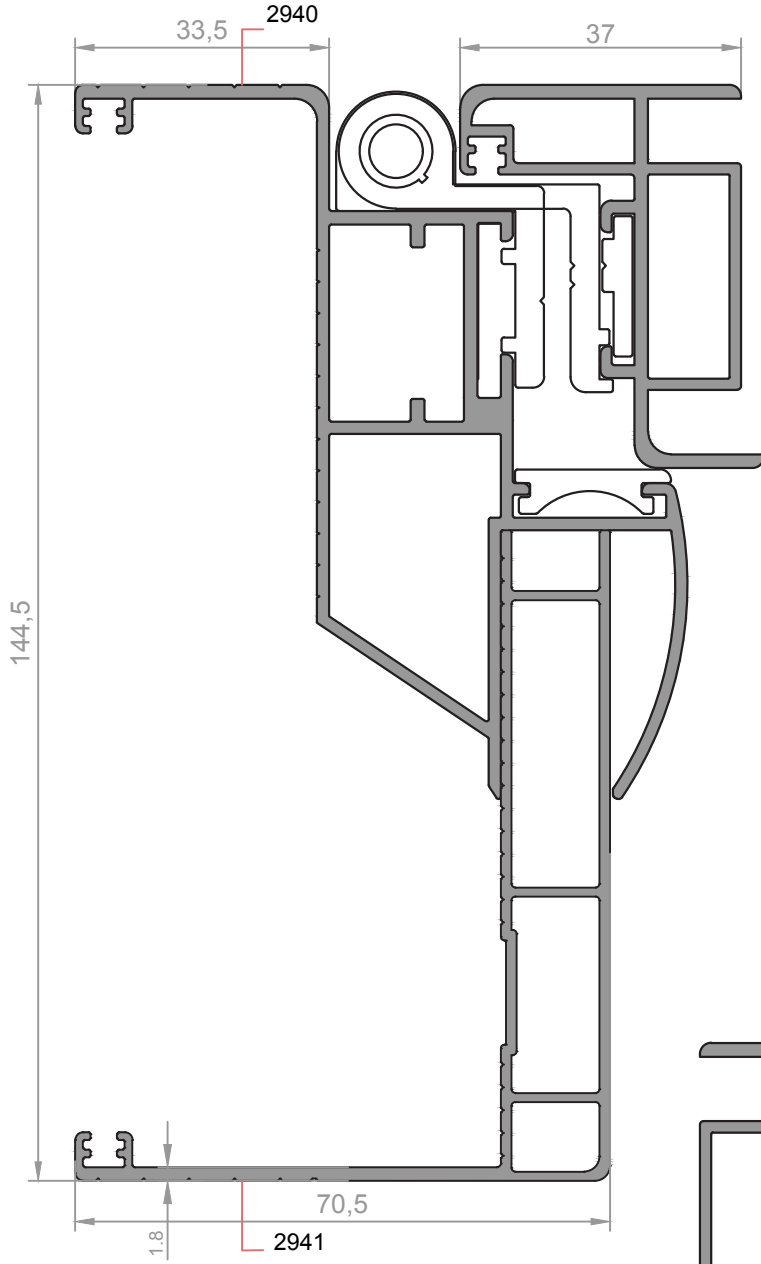


2943
Kapı Profili
0,918 kg/m
Jx=10,23 cm ⁴ Jy=2,71 cm ⁴

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.





HİLAL
Alüminyum

PROFİL KATALOĞU

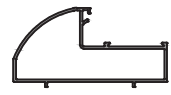
ARA BÖLME PROFİLLERİ

PARTITION PROFILES

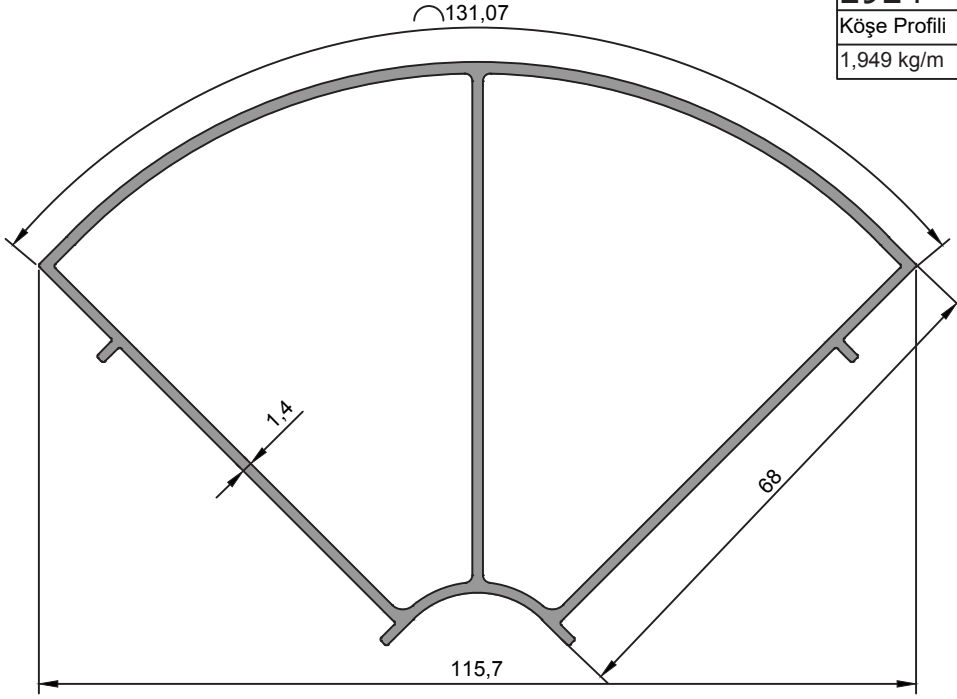
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

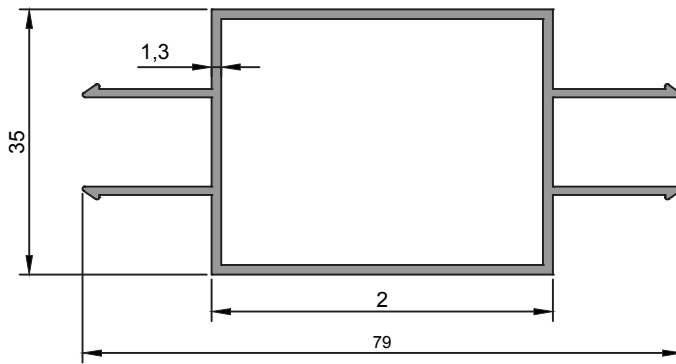
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	2924	Köşe Profili	1,949 kg/m	...	...	
	2923	Kasa Profili	1,208 kg/m	...	...	
	2939	Köşe Profili	1,691 kg/m	...	...	
	2922	Adaptör	0,810 kg/m	...	...	
	2921	Kapak Profili	0,196 kg/m	...	...	
	2944	Bağlantı Profili	0,670 kg/m	...	...	
	2925	Kapı Kasa Profili	1,297 kg/m	...	...	
	2920	Bağlantı Profili	0,503 kg/m	...	...	

2924
Köşe Profili
1,949 kg/m

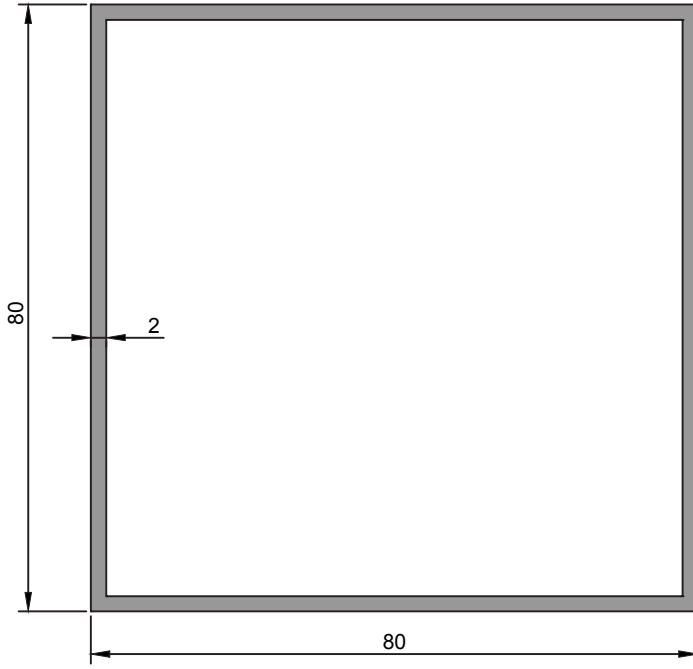


2923
Kasa Profili
1,208 kg/m

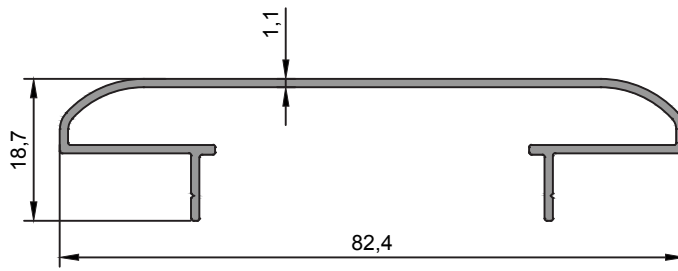


★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

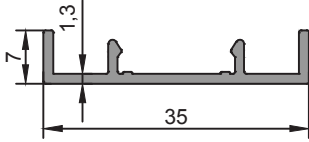
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



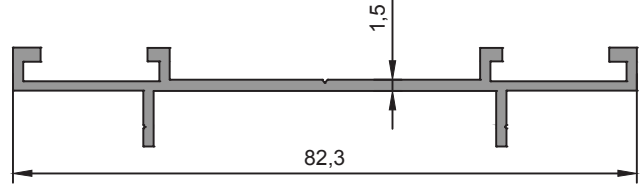
2939
Köşe Profili
1,691 kg/m



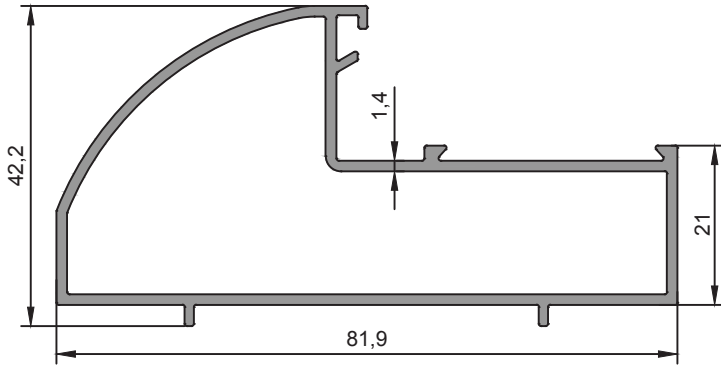
2922
Adaptör
0,810 kg/m



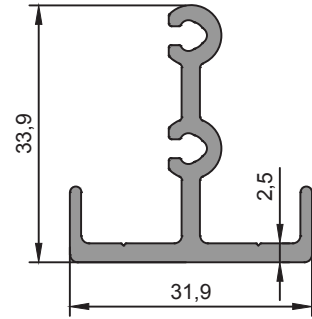
2921
Kapak Profili
0,196 kg/m



2944
Bağlantı Profili
0,670 kg/m



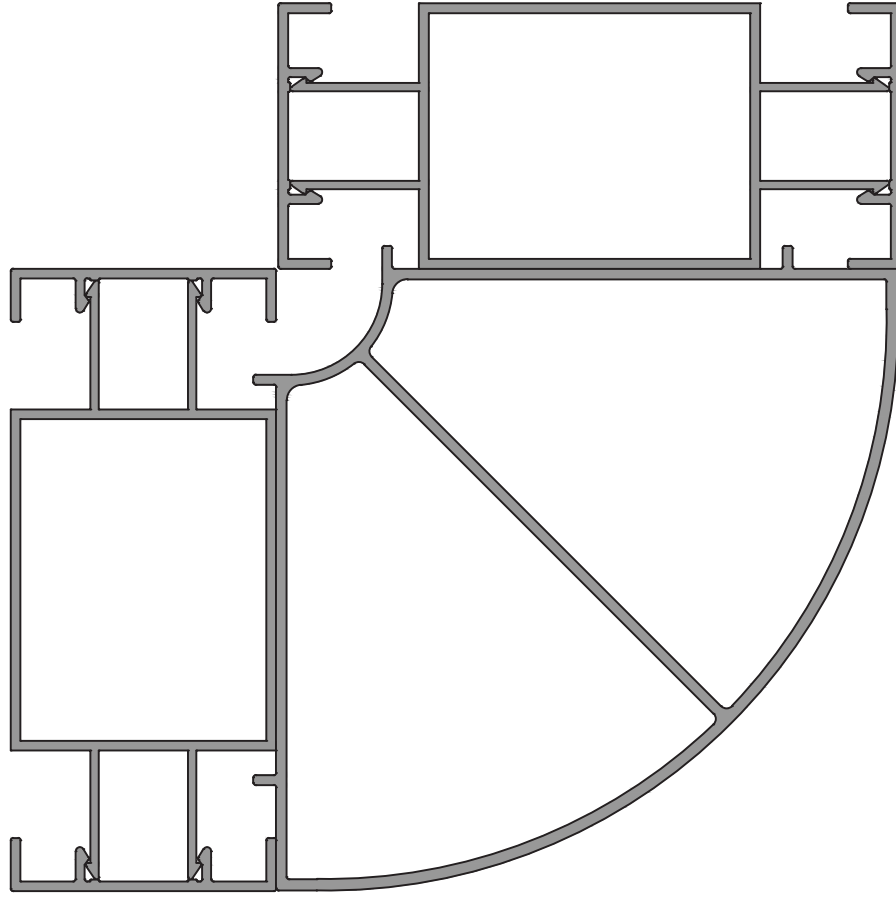
2925
Kapı Kasa Profili
1,297 kg/m



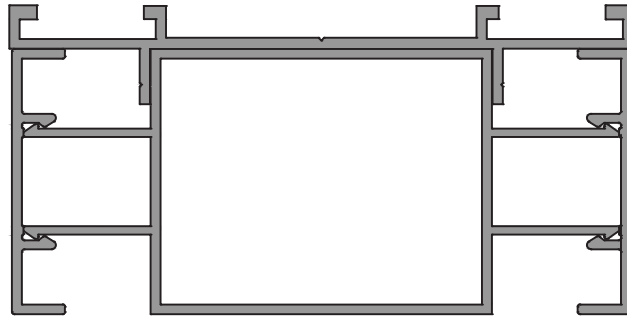
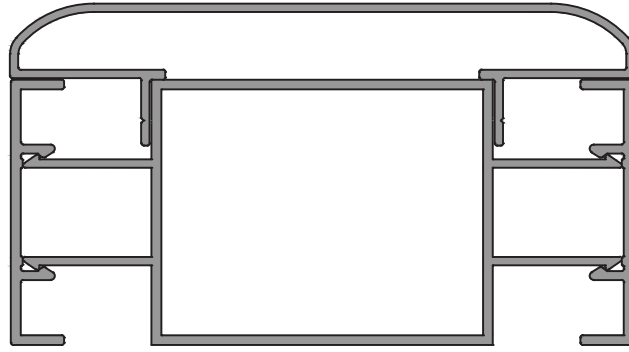
2920
Bağlantı Profili
0,503 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

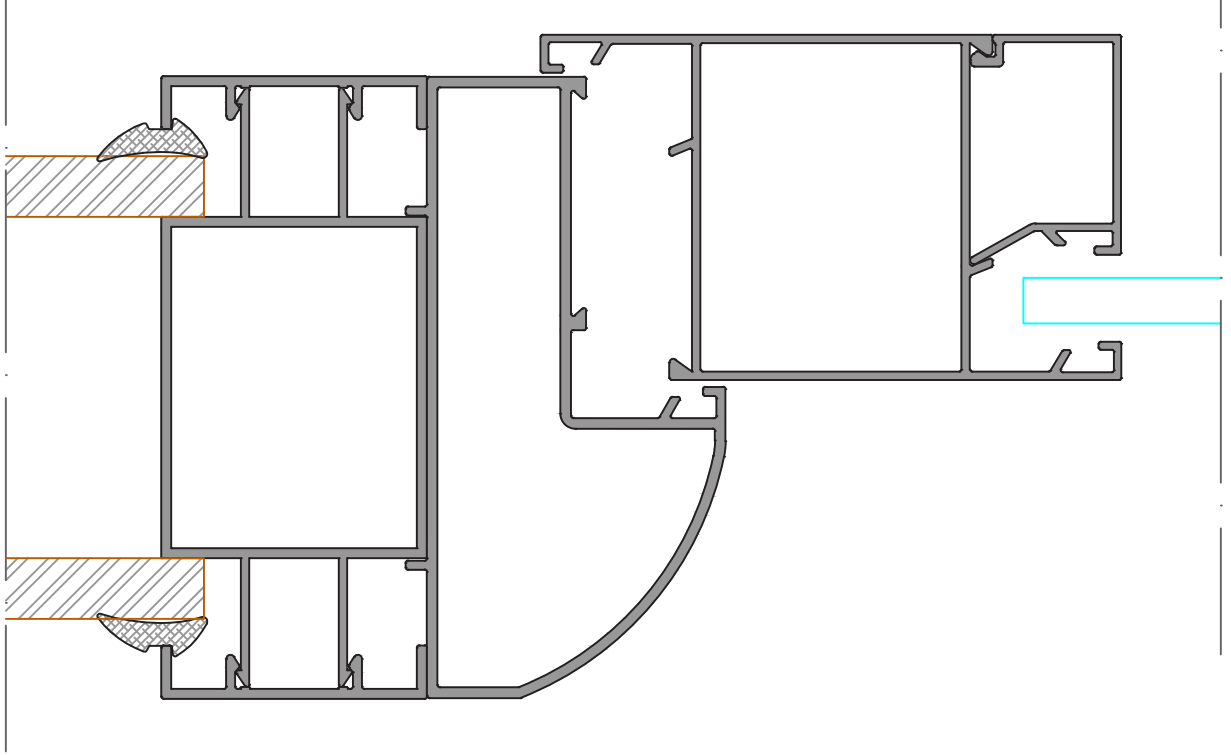
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.





HİLAL
Alüminyum

PROFİL KATALOĞU

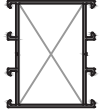
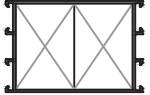
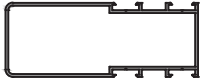
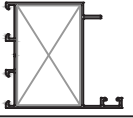
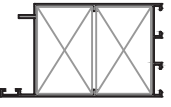
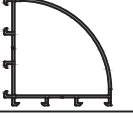
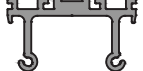
HC60 SERİ

HC60 SERIE

★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

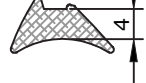
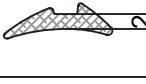
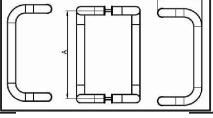
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1117	Kasa ve Orta Kayıt	0,952 kg/m	17,56	11,37	
	2131	Kasa ve Orta Kayıt	1,410 kg/m	57,22	30,55	
	4149_1	Takviyeli Orta Kayıt	2,010 kg/m	146,67	30,73	
	4197	Dar Kasa ve Orta	0,761 kg/m	10,73	0,76	
	1118	Kanat	1,013 kg/m	21,51	13,49	
	4178	Geniş Kanat	1,492 kg/m	62,06	32,71	
	1132	Kasa Adaptörü	0,414 kg/m	6,72	0,61	
	2129	Çarpma Adaptörü	0,408 kg/m	5,82	0,14	
	4183	Çarpma Adaptörü	0,323 kg/m	4,39	0,12	
	2130	Çarpma Kapı Adaptörü	0,426 kg/m	7,29	0,20	
	4189	Etek Profili	1,812 kg/m	131,49	44,01	
	1130	90° Dönüş Profili	1,083 kg/m	25,33	15,42	
	4150	135° Dönüş Profili	1,173 kg/m	17,92	10,18	
	2367	Dik Bağlantı	1,274 kg/m			

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

[illegible]

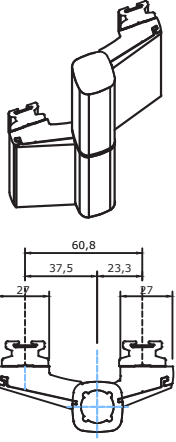
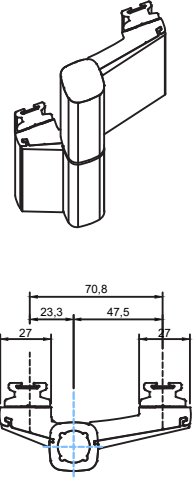
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

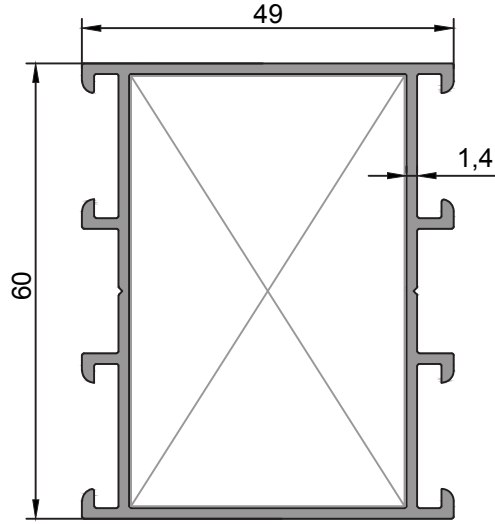
AKSESUAR KESİTİ	AKSESUAR KODU	AKSESUAR ADI	AĞIRLIK	PAKETLEME	SAYFA NO
	HL04	İç Cam Fitili - 3 mm	60 gr/m	15 kg/ 250 m	
	HL07	İç Cam Fitili - 4 mm	63 gr/m	15 kg/ 238 m	
	HL02	İç Cam Fitili - 4.5 mm	85 gr/m	15 kg/ 175 m	
	HL31	İç Cam Fitili - 2 mm	39 gr/m	15 kg/ 375 m	
	HA57-C60	KaucukPlastik		100 mt/ 1 Paket	
	HA31-02/09-1	Tek Büküm Oval Yale Kol (Paslanmaz)		1 Takım	
	HA31-11	Boru Kol		1 Takım	
	HA31-01	Yaylı Sosis Kol		1 Takım	
	HA31-09/13	Yaylı Dar Aynalı Sosis Kol		1 Takım	
	HA31-07/2Y	Yaylı Düz Rozetli Sosis Kol		1 Takım	
	HA31-24/20	Akbank 40'lık Kol Aparatı		1 Takım	
	HA31-24/2H	Akbank Havuzlu Kol Aparatı		1 Takım	
	HA34-01/4/5	62 mm Barel		1 Adet	
	HA33-10	Savio Uzun Sürgü		1 Adet	

AKSESUAR KESİTİ	AKSESUAR KODU	AKSESUAR ADI	AĞIRLIK	PAKETLEME	SAYFA NO
	HA33-13	Savio Kısa Sürgü		200 Ad/paket	
	HA34-04/1-N	Dilli Kilit (153-25)		30 Ad/paket	
	HA34-02/1N	Makaralı Kilit (155-25)		30 Ad/paket	
	HA33-06/1/3	C60 Dilli Kilit Karşılığı		400 Ad/paket	
	HA33-06/02/3	C60 Makaralı Kilit Karşılığı		400 Ad/paket	
	HA33-06/1/2-4	Elektrikli Kilit Karşılığı		400 Ad/paket	
	HA33-06/03	C60 Kilit Altı		400 Ad/paket	
	TS 71	Kapı Hidroliği			
	HA33-04/2	Kapı Altı Fırçası		100 Ad/paket	
	HA33-04/3	Y Kapı Alt Fırçası		100 Ad/paket	
 HA33-04/2 ALÜ. KAPI ALTI FIRÇASI 1 Pk 100 Adet 11kg DOOR BOTTOM ALM. BRUSH	HA33-04/2	Y Kapı Alt Fırçası		100 Ad/paket	

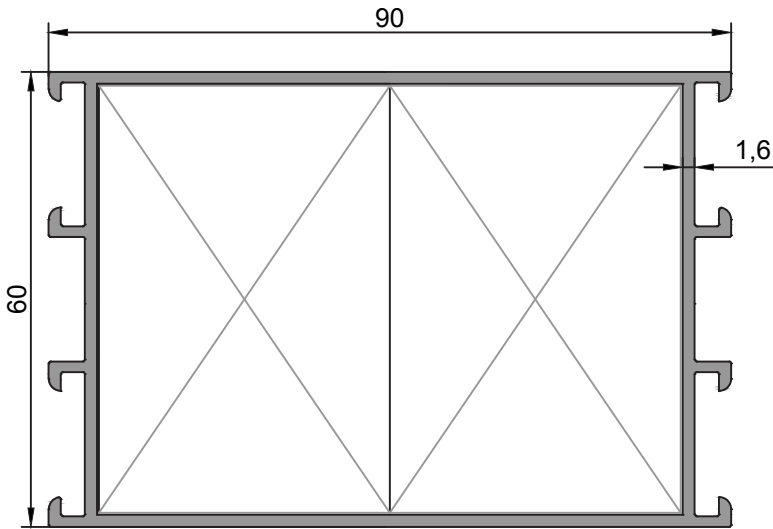
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

AKSESUAR KESİTİ	AKSESUAR KODU	AKSESUAR ADI	AĞIRLIK	PAKETLEME	SAYFA NO
	SDKM-45-075	Düz Kapazlama Menteşe		10 Ad/paket	
	SDKM-57-076	Düz Kapazlama Menteşe		10 Ad/paket	
	HA32-28/5	C60 Orta Kayıt Bağlantı		500 Ad/paket	
	HA32-31/1	Boyunlu Eksenel Kol Tek Dilli		1 Ad/paket	
	HA32-33/1	Avrupa Karşılık Zamak Ak 315		500 Ad/paket	
	HA32-23	C60 Menteşe İkili		50 Ad/paket	
	HA32-22/11	Oval C60 Menteşe		50 Ad/paket	
	HA32-17/2	C60 Baba Menteşe		5x20 Ad/paket	



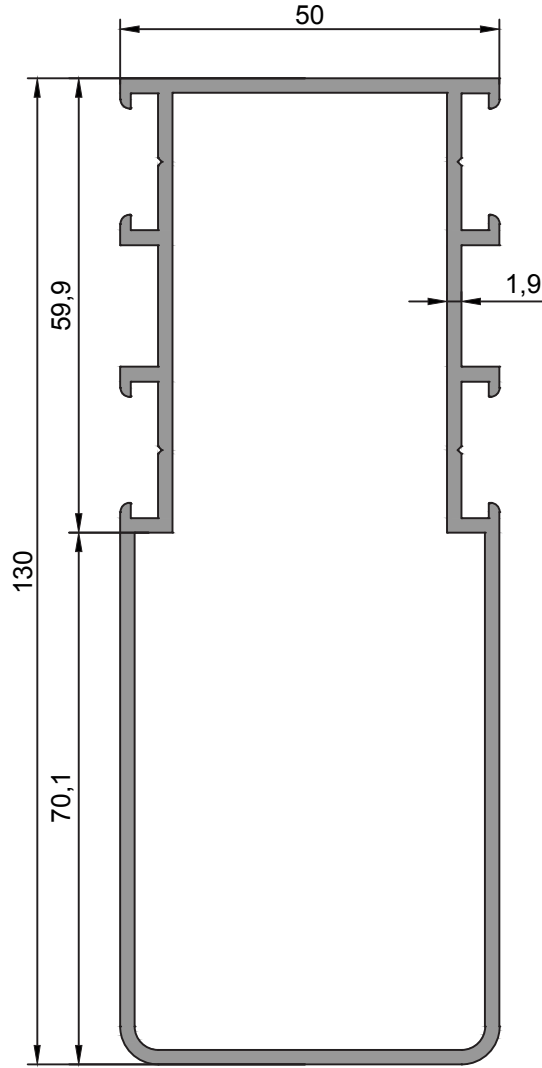
1117
Kasa ve Orta Kayıt
0,952 kg/m
$J_x=17,56 \text{ cm}^4$ $J_y=11,37 \text{ cm}^4$



2131
Kasa ve Orta Kayıt
1,410 kg/m
$J_x=57,22 \text{ cm}^4$ $J_y=30,55 \text{ cm}^4$

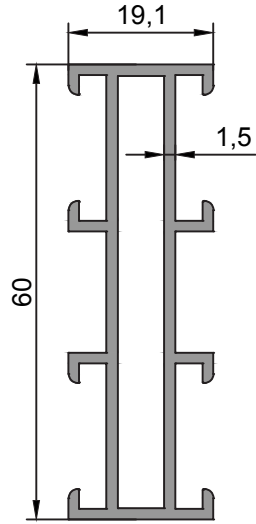
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

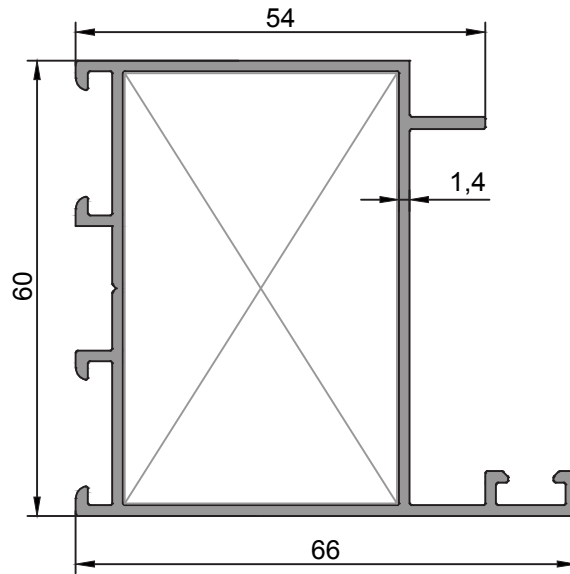


4149_1
Takviyeli Orta Kayıt
2,010 kg/m
$Jx=146,67 \text{ cm}^4$ $Jy=30,73 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

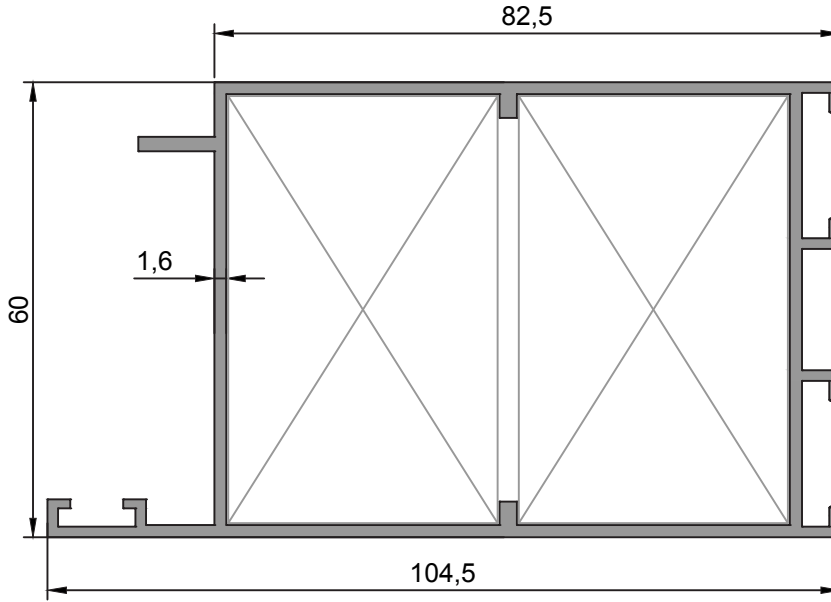


4197
Dar Kasa ve Orta
0,761 kg/m
$J_x=10,73 \text{ cm}^4$ $J_y=0,76 \text{ cm}^4$

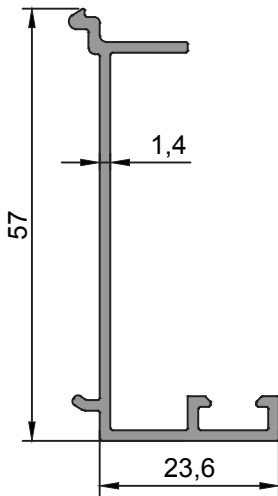


1118
Kanat
1,013 kg/m
$J_x=21,51 \text{ cm}^4$ $J_y=13,49 \text{ cm}^4$

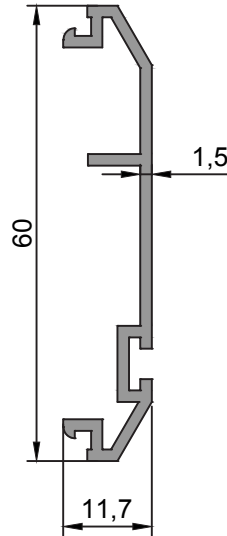
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



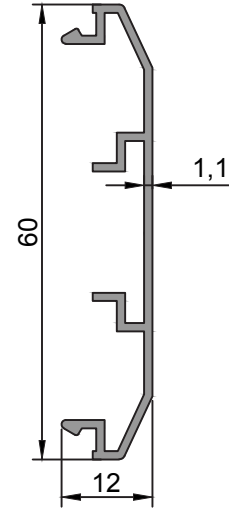
4178
Geniş Kanat
1,492 kg/m
Jx=62,06 cm ⁴ Jy=32,71 cm ⁴



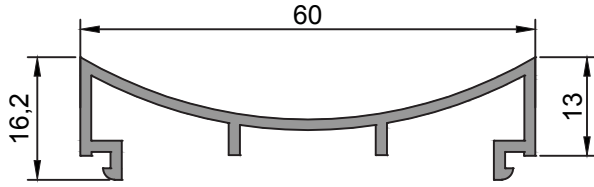
1132
Kasa Adaptörü
0,414 kg/m
Jx=6,72 cm ⁴ Jy=0,61 cm ⁴



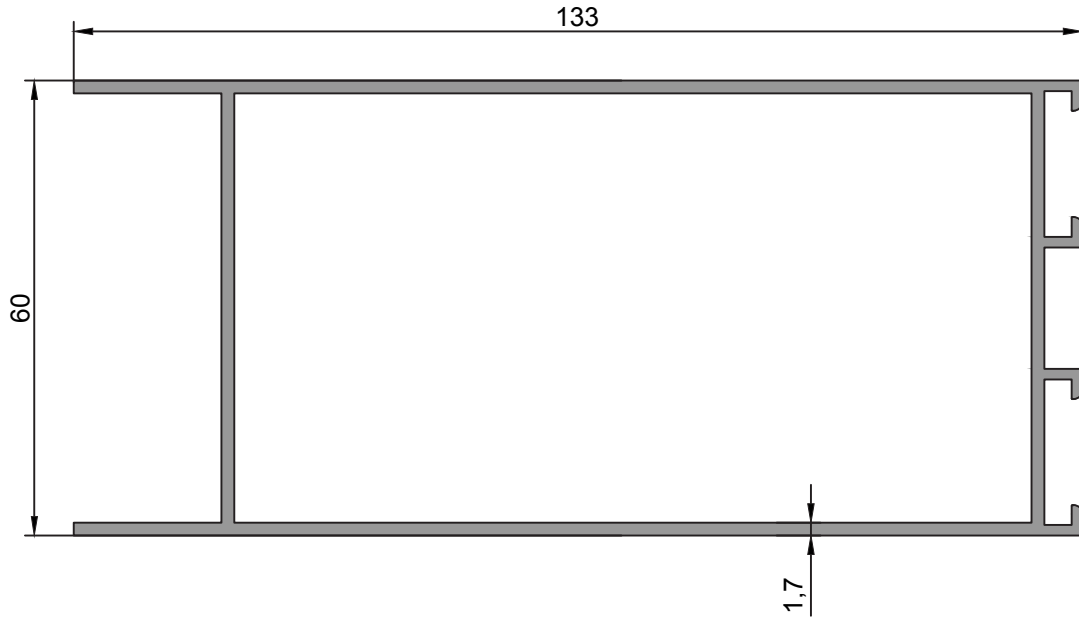
2129
Çarpma Adaptörü
0,408 kg/m
Jx=5,82 cm ⁴ Jy=0,14 cm ⁴



4183
Çarpma Adaptörü
0,323 kg/m
Jx=4,39 cm ⁴ Jy=0,12 cm ⁴



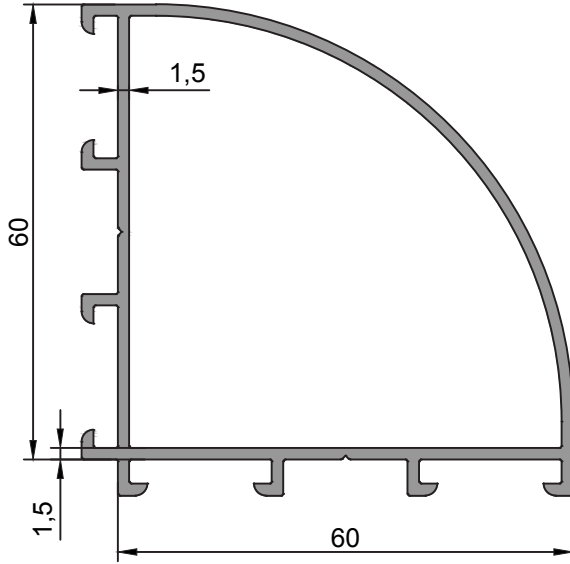
2130
Çarpma Kapı Adaptörü
0,426 kg/m
$J_x=7,29 \text{ cm}^4$ $J_y=0,20 \text{ cm}^4$



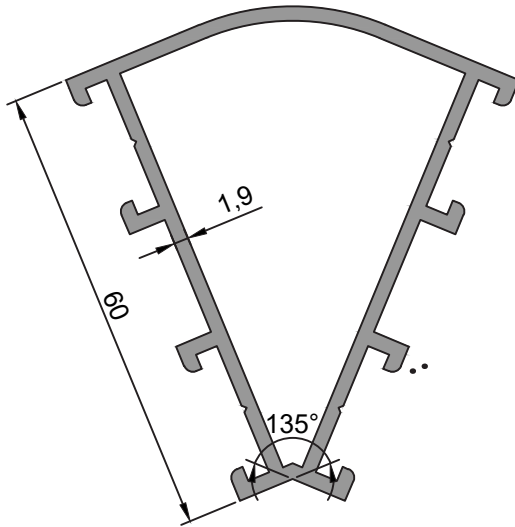
4189
Etek Profili
1,812 kg/m
$J_x=131,49 \text{ cm}^4$ $J_y=44,01 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

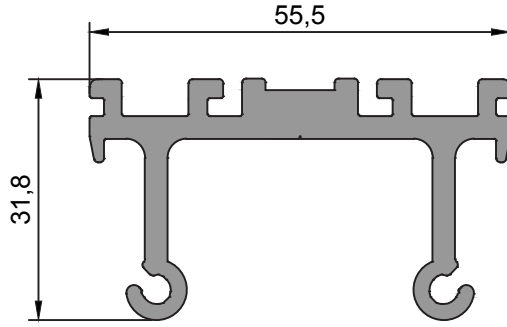
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



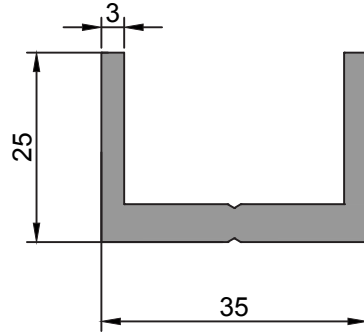
1130
90°Dönüş Profili
1,083 kg/m
$Jx=25,33 \text{ cm}^4$ $Jy=15,42 \text{ cm}^4$



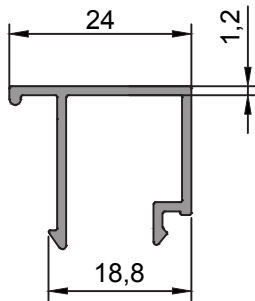
4150
135° Dönüş Profili
1,173 kg/m
$Jx=17,92 \text{ cm}^4$ $Jy=10,18 \text{ cm}^4$



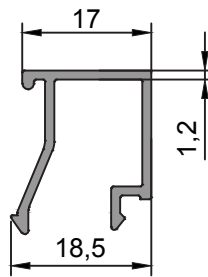
2367
Dik Bağlantı
1,274 kg/m



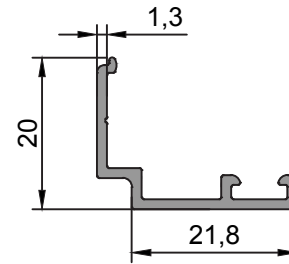
4180
Dik Bağlantı
0,800 kg/m



1089
Cam Çıtası
0,230 kg/m



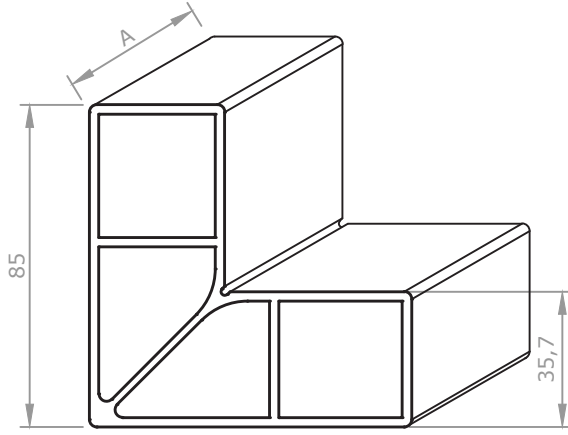
1087
Cam Çıtası
0,211 kg/m



1838
Ek Profil
0,190 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

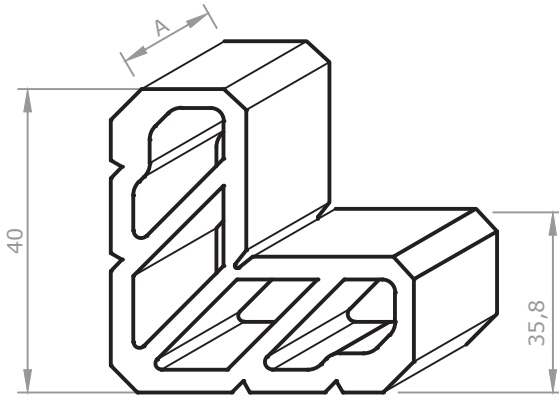


K4507

Köşe Takozu

2,930 kg/m

Aksesuar Kodu	Profil Kodu	Kesim Ölçüsü A(mm)
K4507 563	4178	56.3



K3272

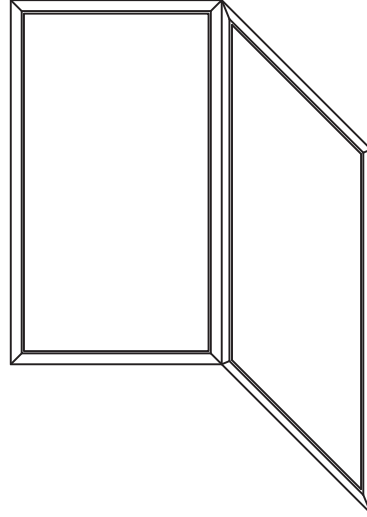
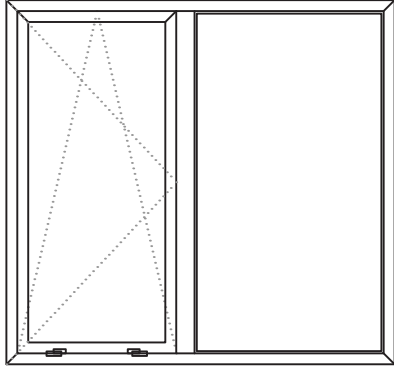
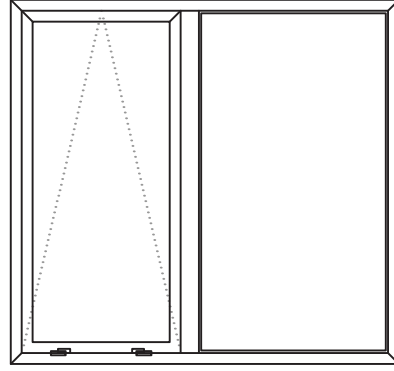
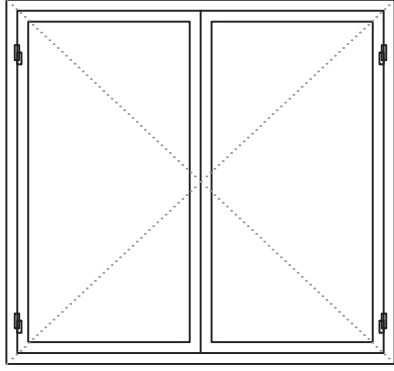
Köşe Takozu

6,230 kg/m

Aksesuar Kodu	Profil Kodu	Kesim Ölçüsü A(mm)
K3272 567	1117	56.7
K3272 563	2131	56.3
K3272 567	1118	56.7

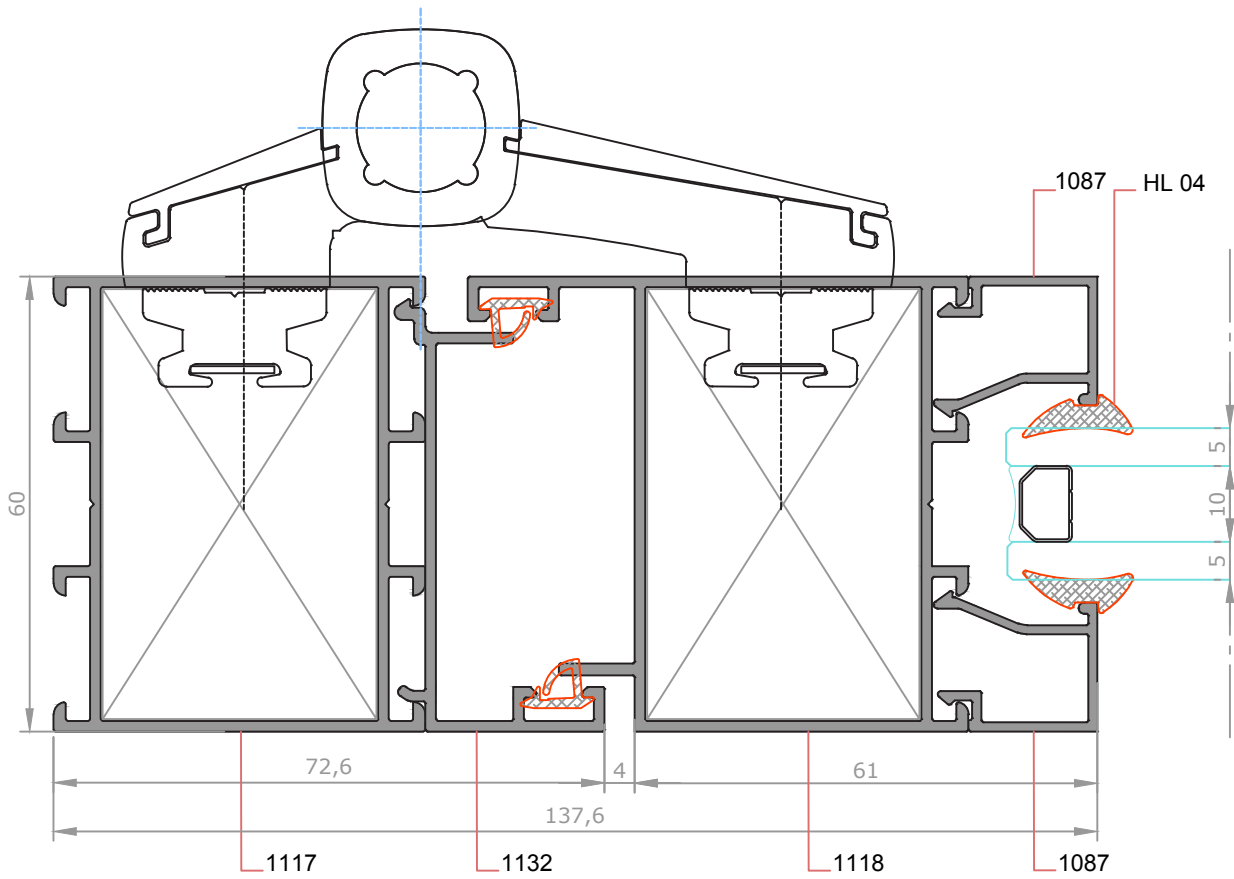
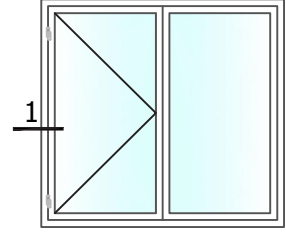
PENCERE UYGULAMA TİPLERİ

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



DETAY-1

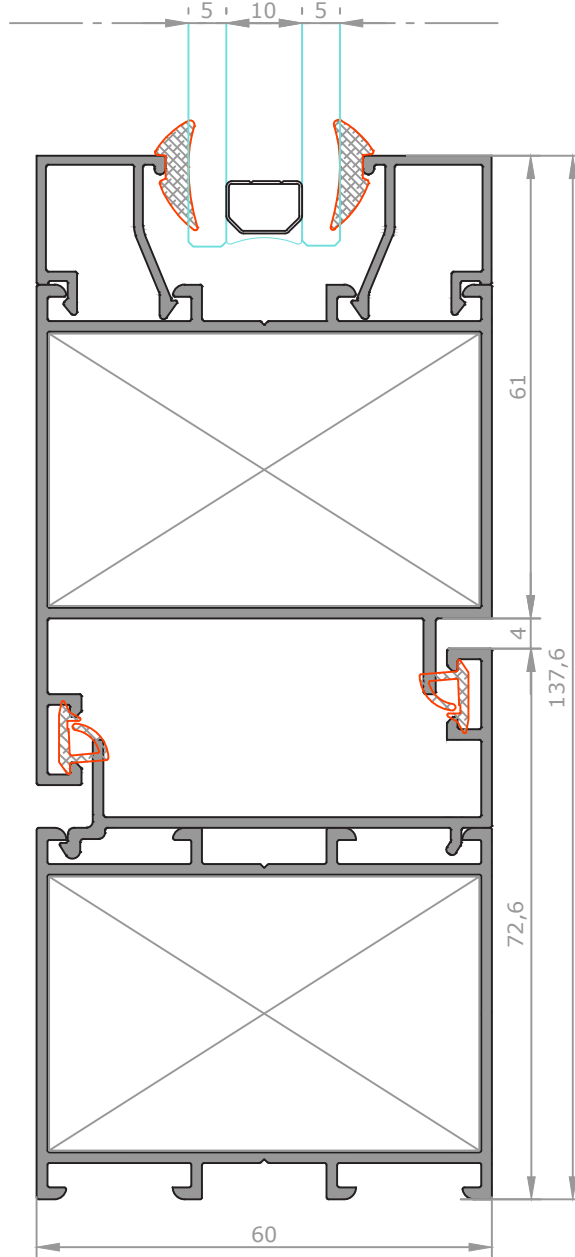
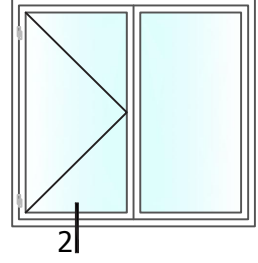
ÖLÇEK:1/1



★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

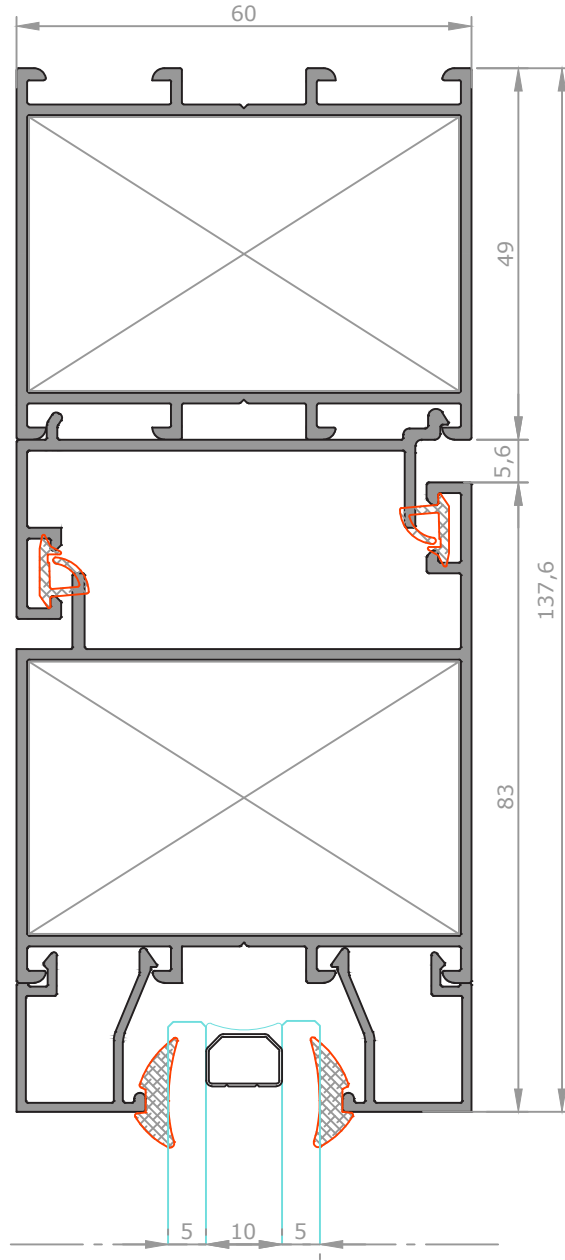
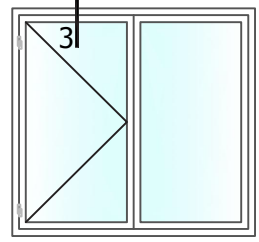
DETAY-2

ÖLÇEK:1/1



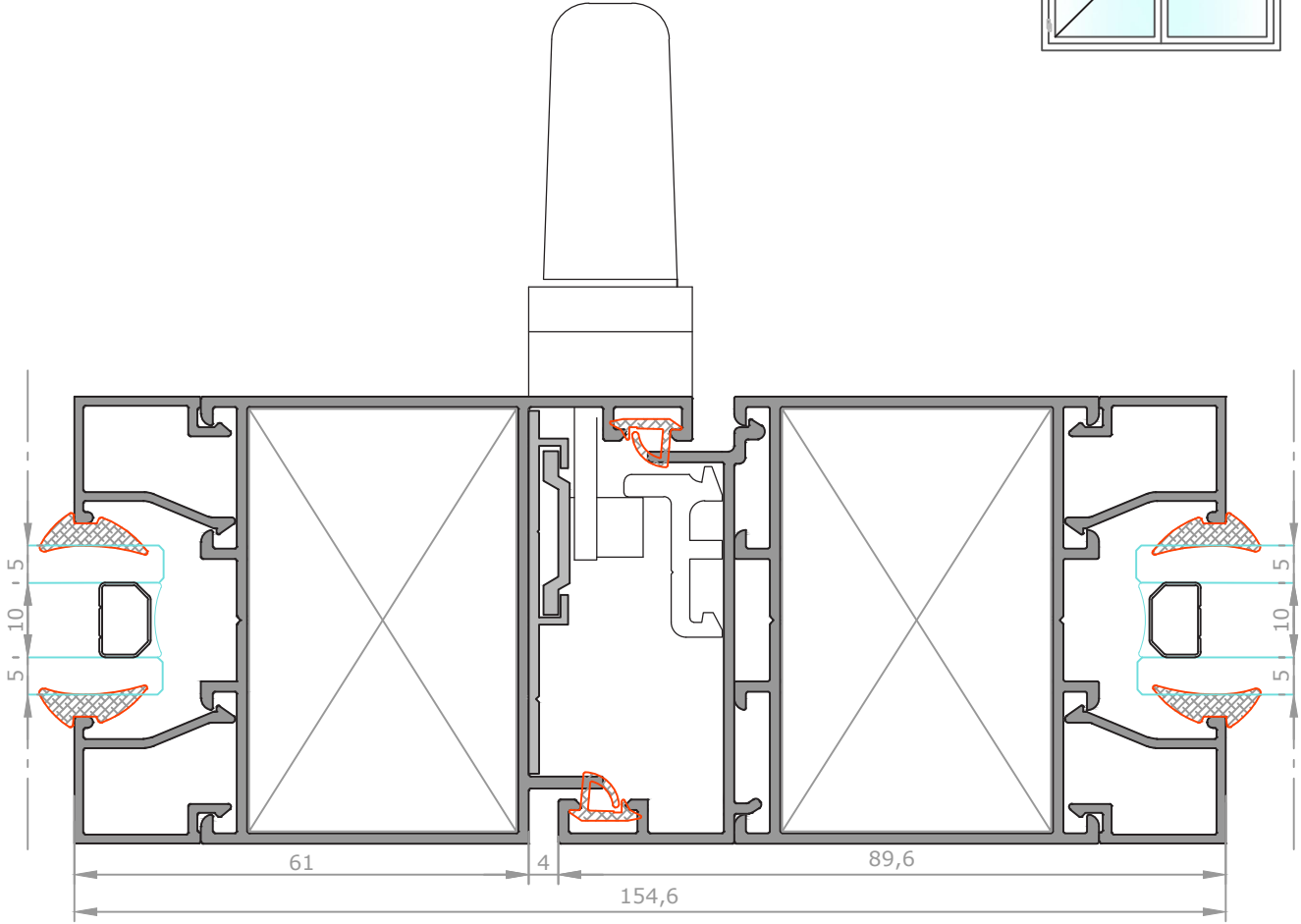
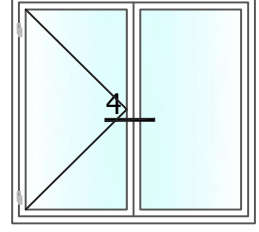
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

DETAY-3
ÖLÇEK:1/1



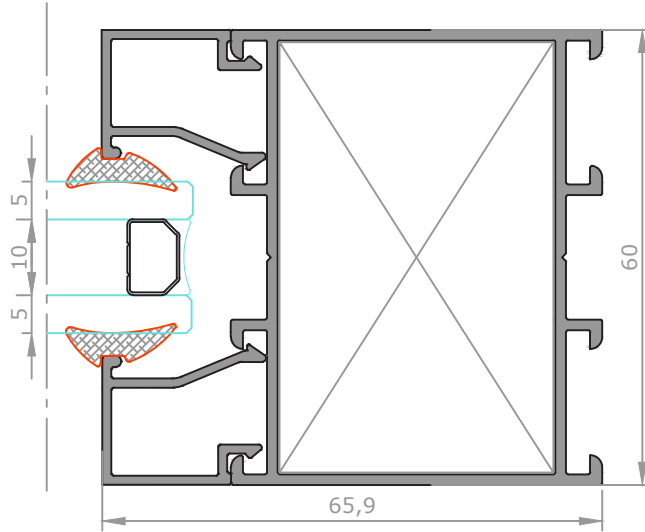
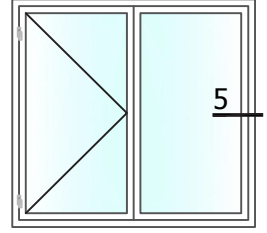
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

DETAY-4
ÖLÇEK:1/1



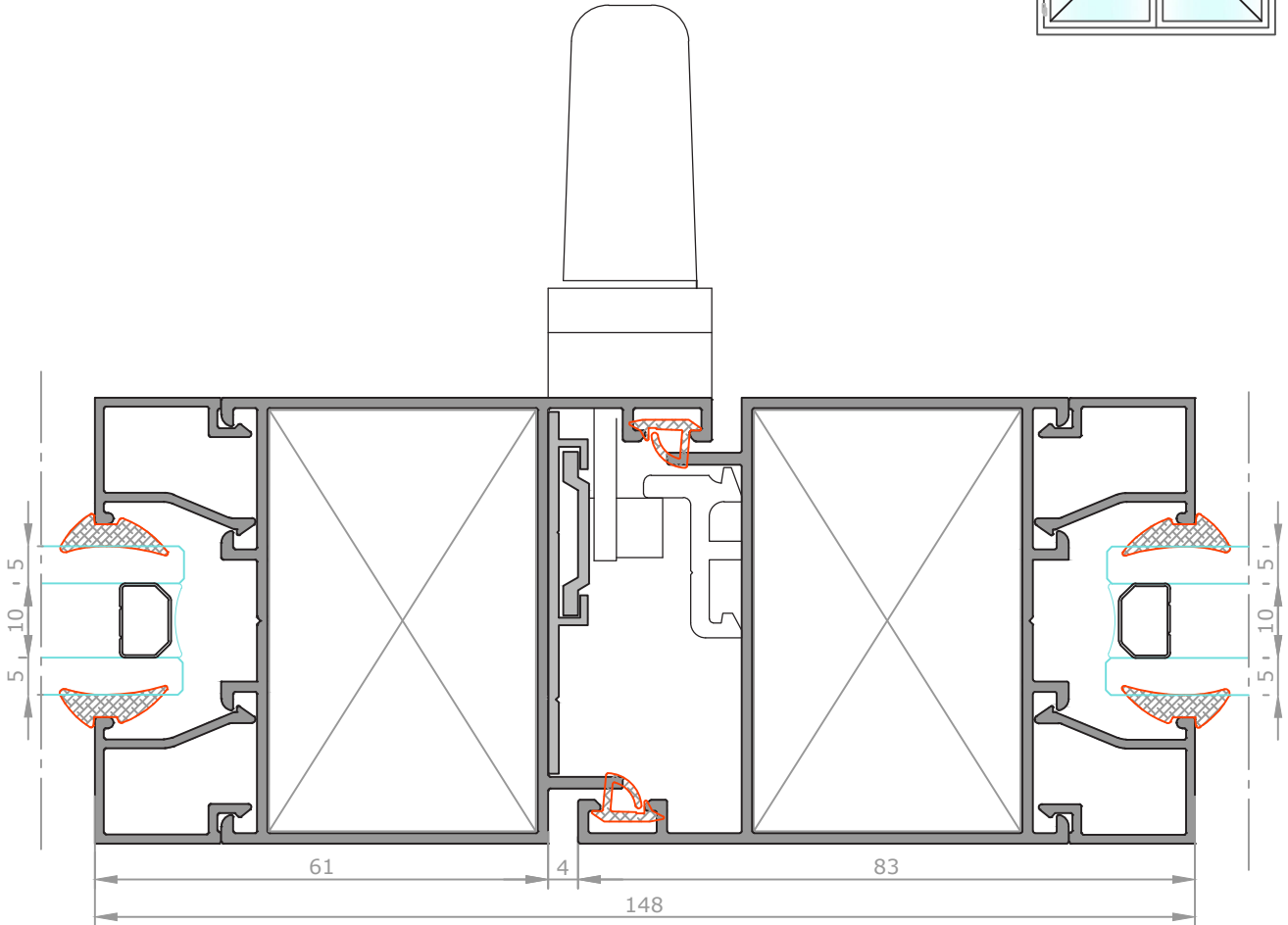
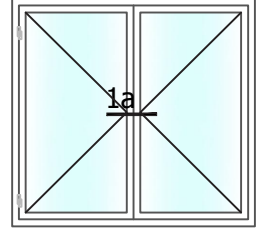
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

DETAY-5
ÖLÇEK:1/1



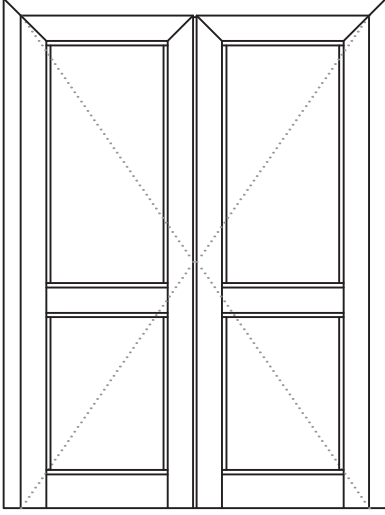
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

DETAY- 1a
ÖLÇEK:1/1

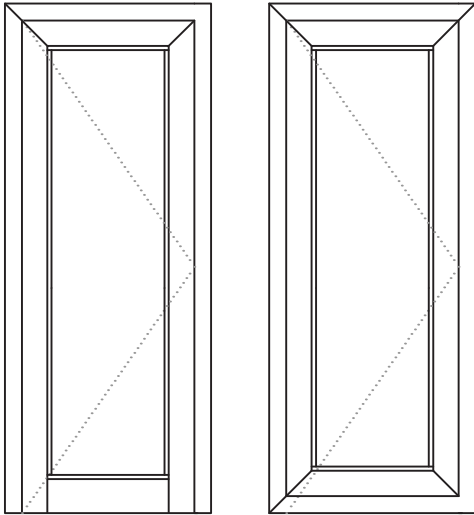


★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

KAPI UYGULAMA TİPLERİ



İçe Açılır Kapı

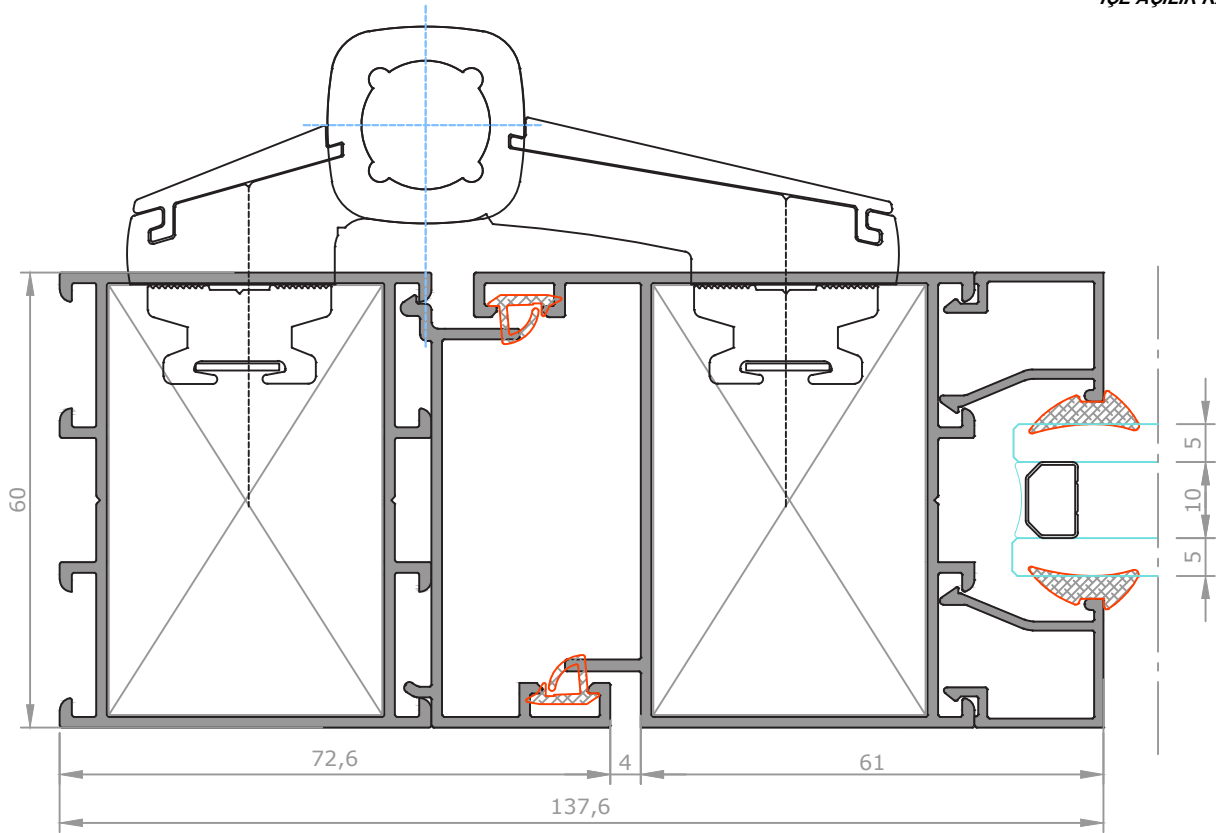
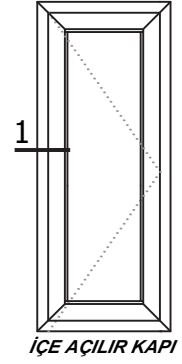


İçe Açılır Kapı

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

DETAY- 1

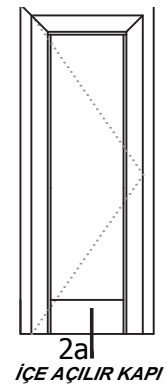
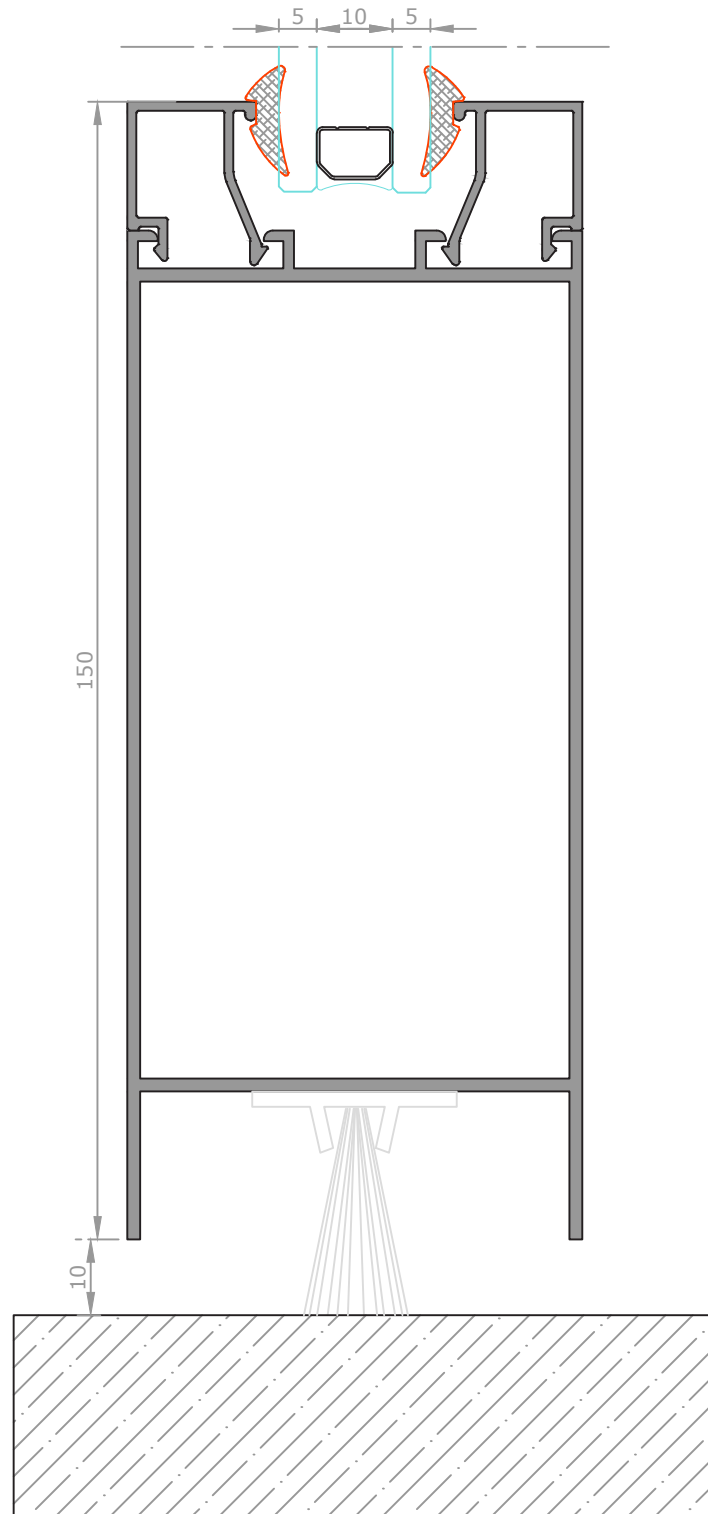
ÖLÇEK:1/1



★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

DETAY-2a

ÖLÇEK:1/1



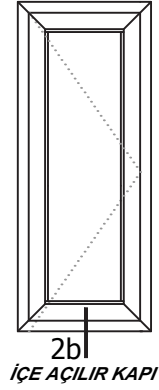
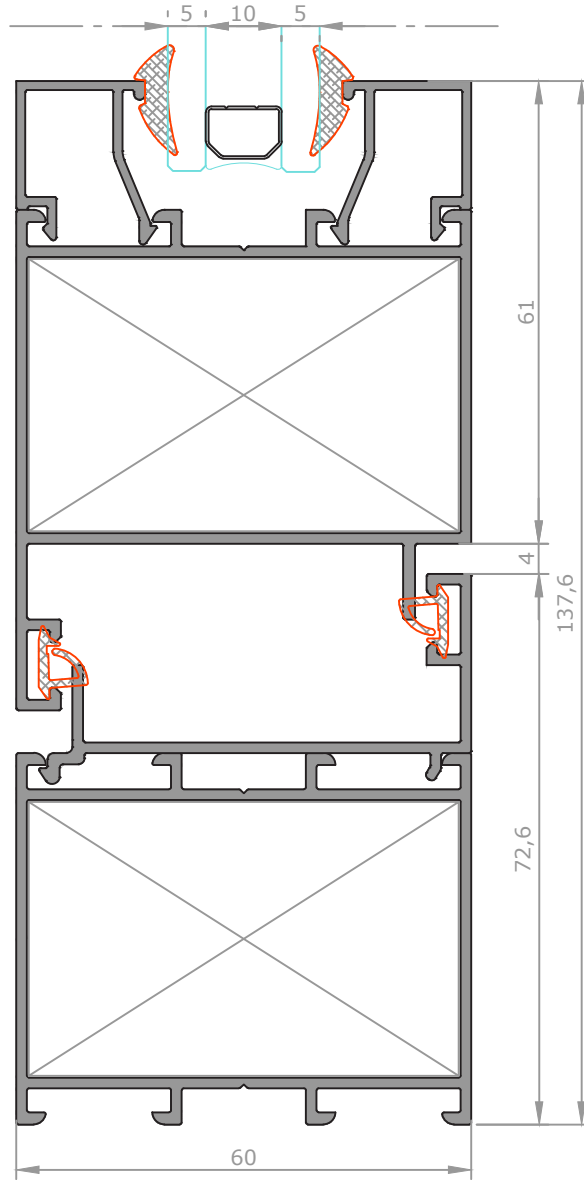
2a|
İÇE AÇILIR KAPI

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

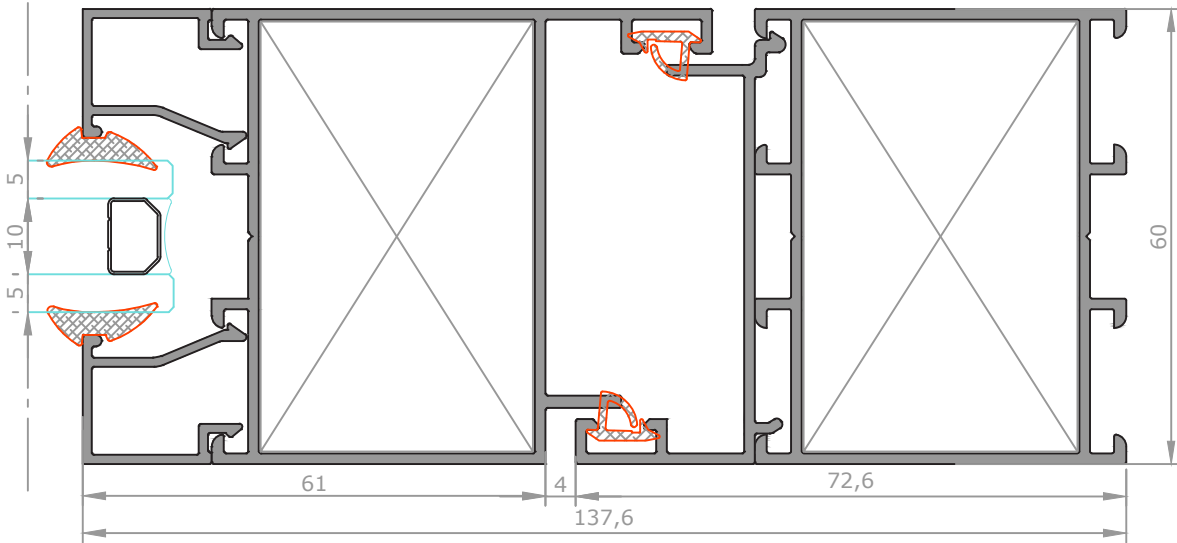
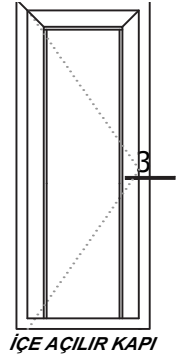
DETAY- 2b

ÖLÇEK:1/1

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



DETAY- 3
ÖLÇEK:1/1

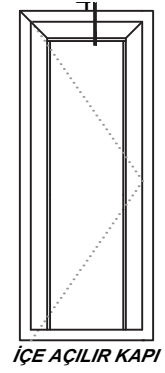
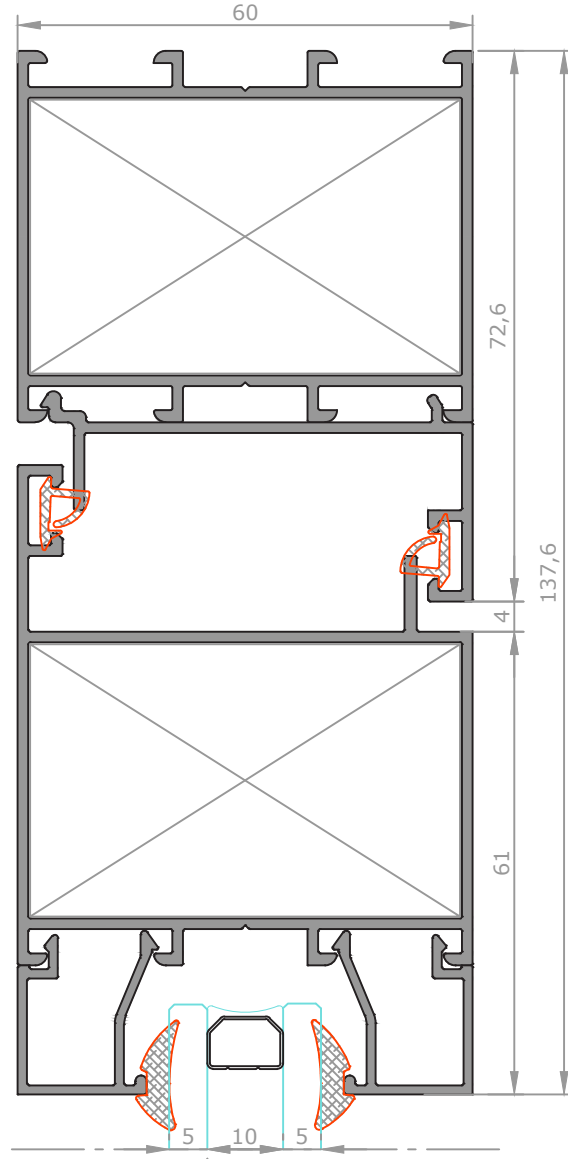


★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

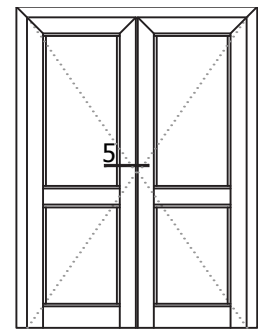
DETAY- 4

ÖLÇEK:1/1

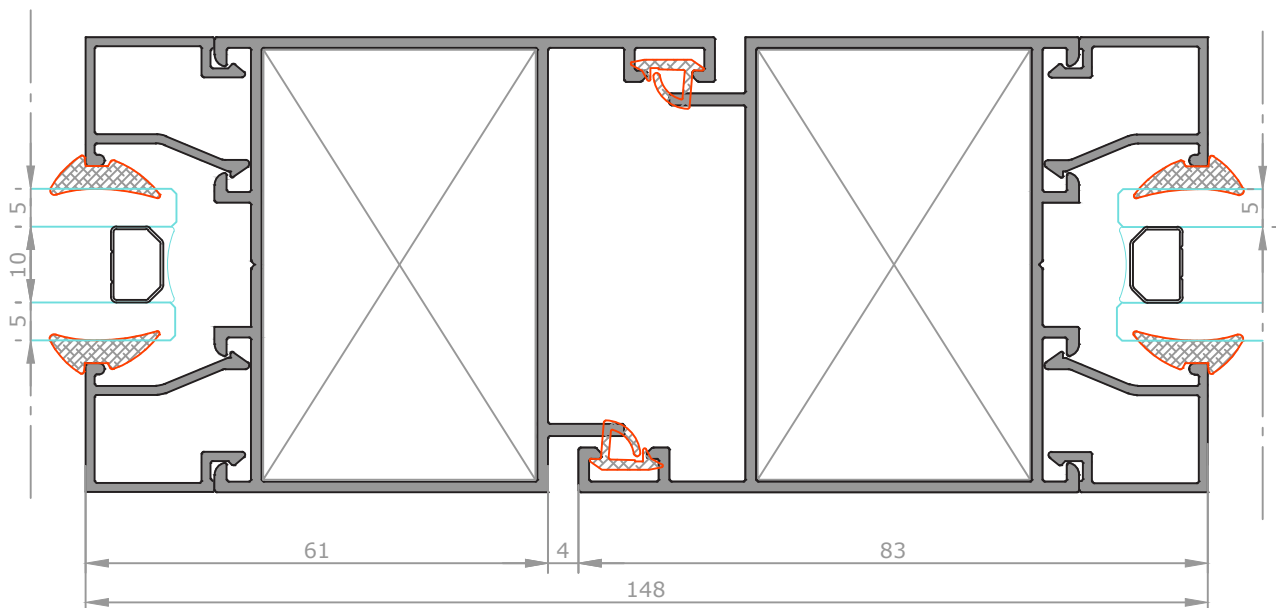
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



DETAY- 5
ÖLÇEK:1/1



İÇE AÇILIR KAPI



★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



HİLAL
Alüminyum

PROFİL KATALOĞU

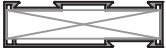
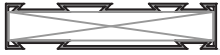
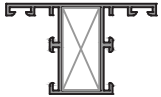
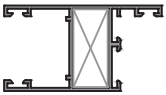
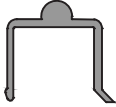
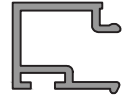
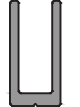
DAR TUBA SERİSİ

SLIDING WINDOWS SERIE

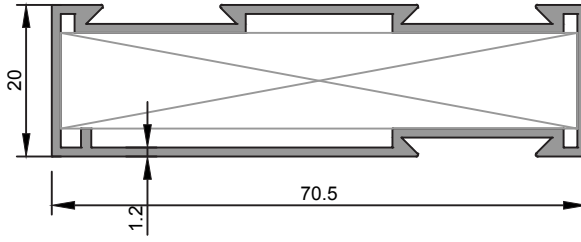
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				$J_x \text{ (cm}^4\text{)}$	$J_y \text{ (cm}^4\text{)}$	
	2100	Kasa Profili	0,687 kg/m	14,56	1,60	
	2101	Sineklikli Kasa Profili	0,919 kg/m	32,74	2,16	
	2103	Orta Kayıt Profili	0,553 kg/m	3,00	2,60	
	2102	Kanat Profili	0,636 kg/m	5,65	3,21	
	2113	Sabit Kasa Adaptör Profili	0,318 kg/m	1,50	0,35	
	2111	Kenet Adaptör Profili	0,296 kg/m	1,93	0,54	
	2112	Orta Kenet Profili	0,183 kg/m	...	...	
	2106	Alt Ray	0,160 kg/m	...	...	
	2107	Yan ve Üst Ray	0,127 kg/m	...	...	
	2110	Tek Cam Çıtası	0,191 kg/m	...	...	
	2109	Isı Cam Çıtası	0,147 kg/m	...	...	
	2115	K.Tuba Dik Bağlantı	0,335 kg/m	...	...	
	2114	KöşeTakoza	0,556 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

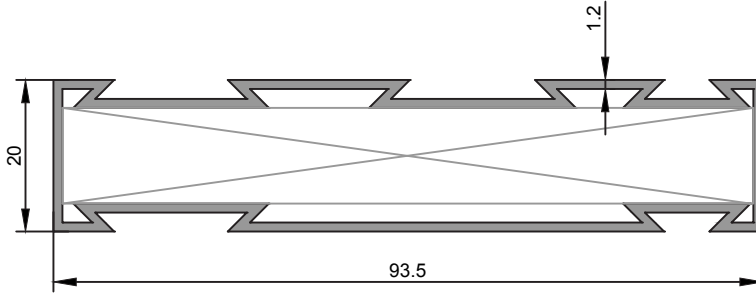


2100

Kasa Profili

0,687 kg/m

$Jx=14,56 \text{ cm}^4$ $Jy=1,60 \text{ cm}^4$



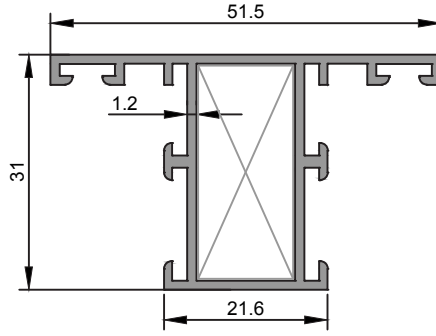
2101

Sineklikli Kasa Profili

0,919 kg/m

$Jx=32,74 \text{ cm}^4$ $Jy=2,16 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

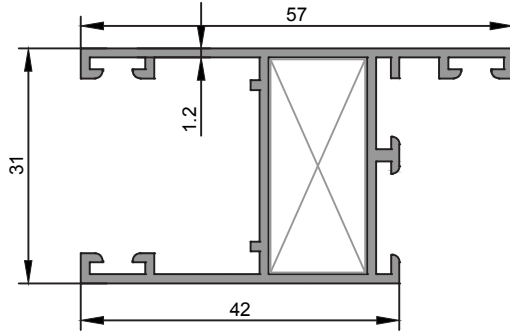


2103

Orta Kayıt Profili

0,553 kg/m

$J_x=3,00 \text{ cm}^4$ $J_y=2,60 \text{ cm}^4$



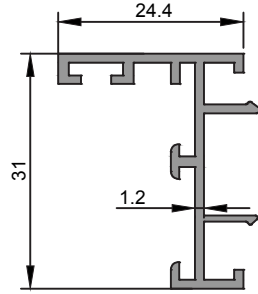
2102

Kanat Profili

0,636 kg/m

$J_x=5,65 \text{ cm}^4$ $J_y=3,21 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

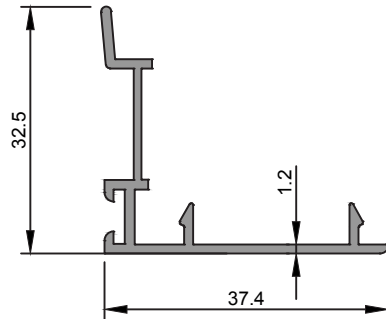


2113

Sabit Kasa Adaptör Profili

0,318 kg/m

$Jx=1,50 \text{ cm}^4$ $Jy=0,35 \text{ cm}^4$



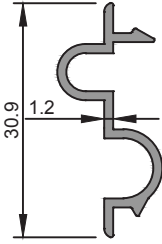
2111

Kenet Adaptör Profili

0,296 kg/m

$Jx=1,93 \text{ cm}^4$ $Jy=0,54 \text{ cm}^4$

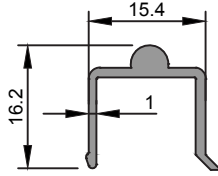
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



2112

Orta Kenet Profili

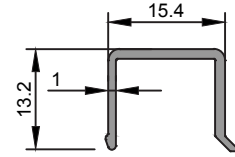
0,183 kg/m



2106

Alt Ray

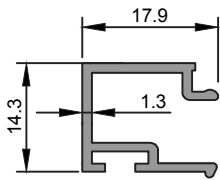
0,160 kg/m



2107

Yan ve Üst Ray

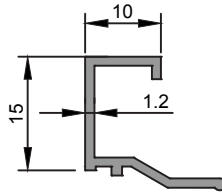
0,127 kg/m



2110

Tek Cam Çıtası

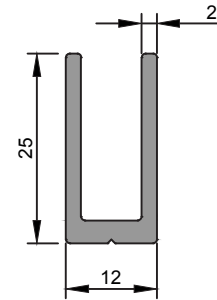
0,191 kg/m



2109

İsı Cam Çıtası

0,147 kg/m

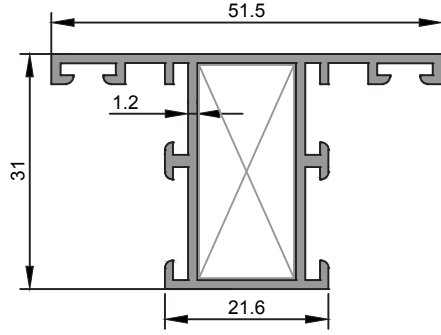


2115

K.Tuba Dik Bağlantı

0,335 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

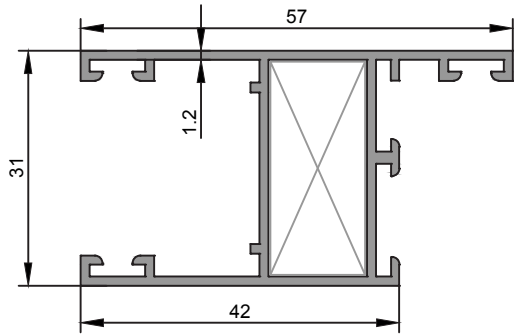


2103

Orta Kayıt Profili

0,553 kg/m

$Jx=3,00 \text{ cm}^4$ $Jy=2,60 \text{ cm}^4$



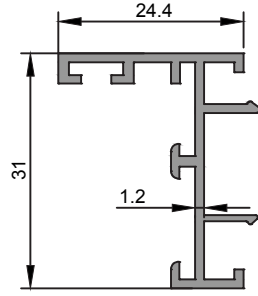
2102

Kanat Profili

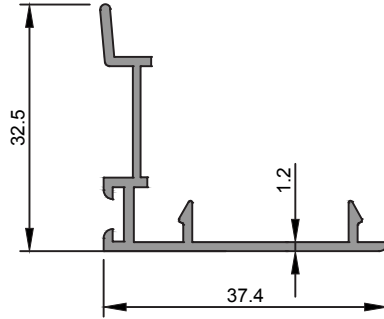
0,636 kg/m

$Jx=5,65 \text{ cm}^4$ $Jy=3,21 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

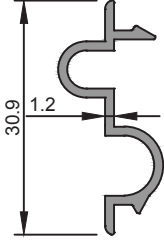


2113
Sabit Kasa Adaptör Profili
0,318 kg/m
$Jx=1,50 \text{ cm}^4$ $Jy=0,35 \text{ cm}^4$

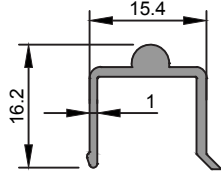


2111
Kenet Adaptör Profili
0,296 kg/m
$Jx=1,93 \text{ cm}^4$ $Jy=0,54 \text{ cm}^4$

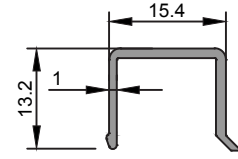
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



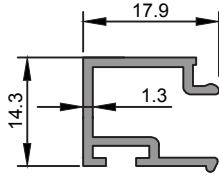
2112
Orta Kenet Profili
0,183 kg/m



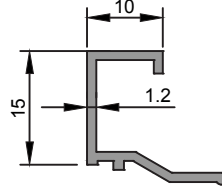
2106
Alt Ray
0,160 kg/m



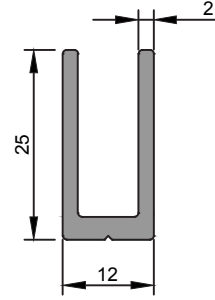
2107
Yan ve Üst Ray
0,127 kg/m



2110
Tek Cam Çıtası
0,191 kg/m

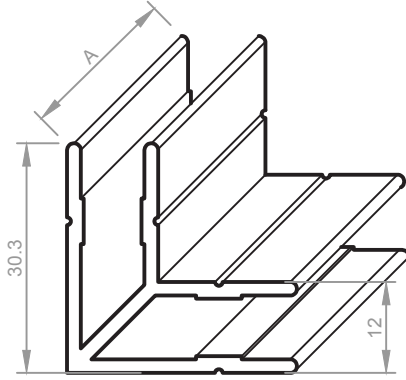


2109
İki Cam Çıtası
0,147 kg/m



2115
K.Tuba Dik Bağlantı
0,335 kg/m

KÖŞE TAKOZU KESİM ÖLÇÜLERİ



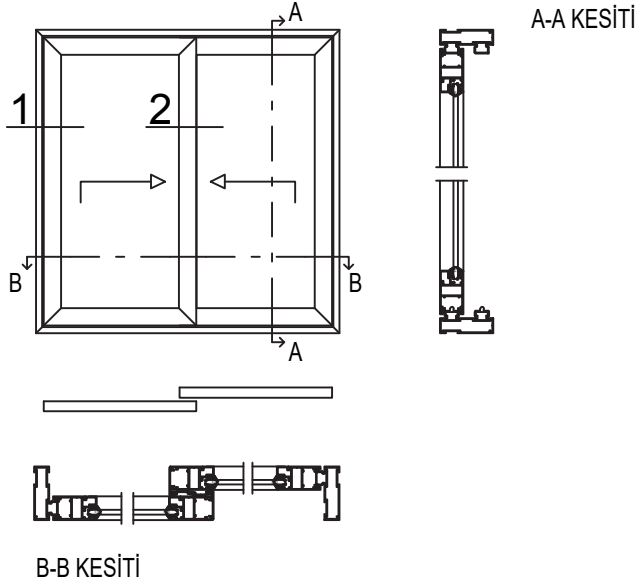
2114

Köşe Takozu

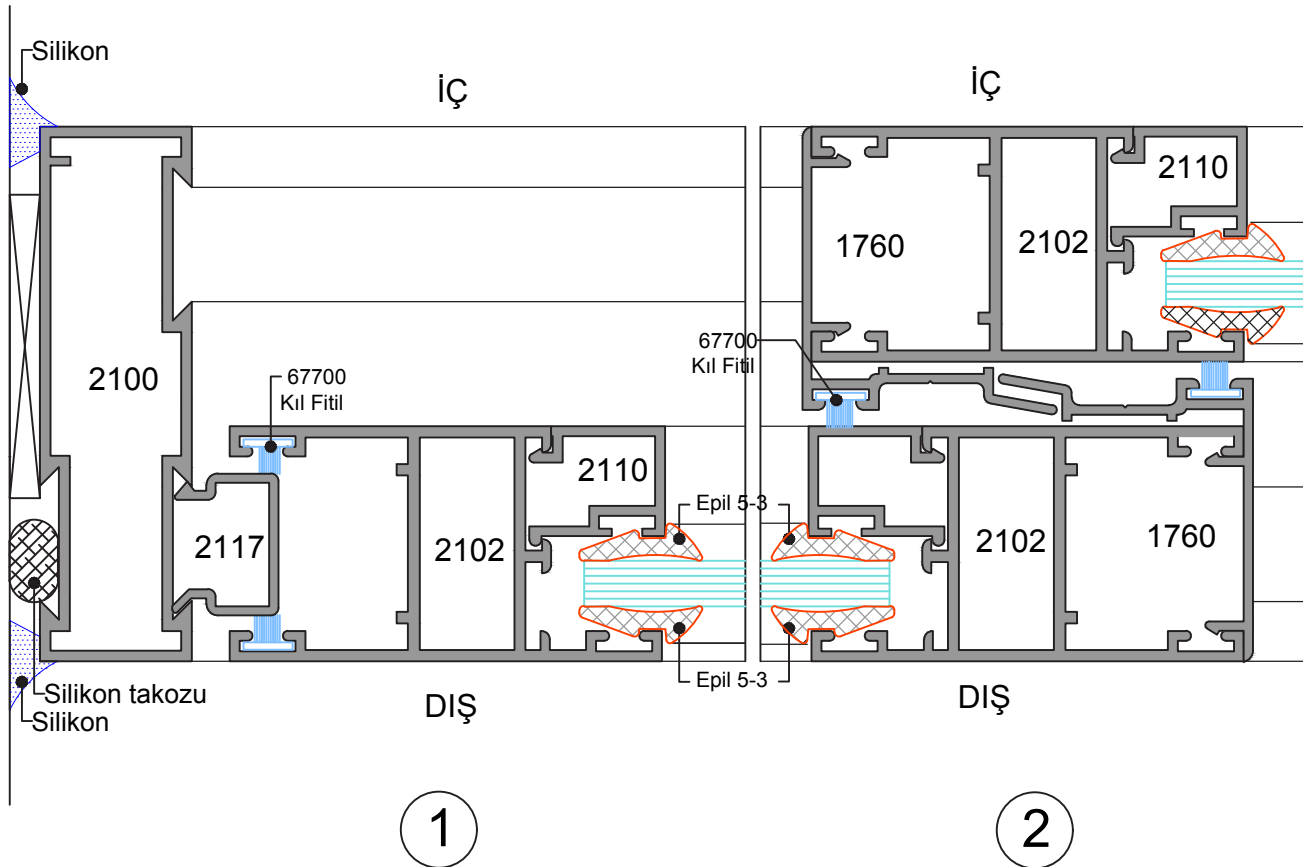
0,556 kg/m

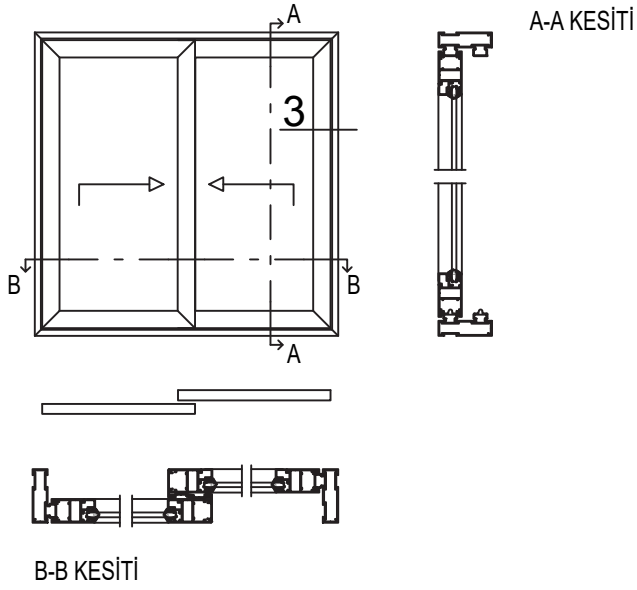
Aksesuar Kodu	Profil Kodu	Kesim Ölçüsü A(mm)
K2114 676	2100	67.6
K2114 906	2101	90.6
K2114 281	2102	28.1
K2114 281	2113	28.1

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

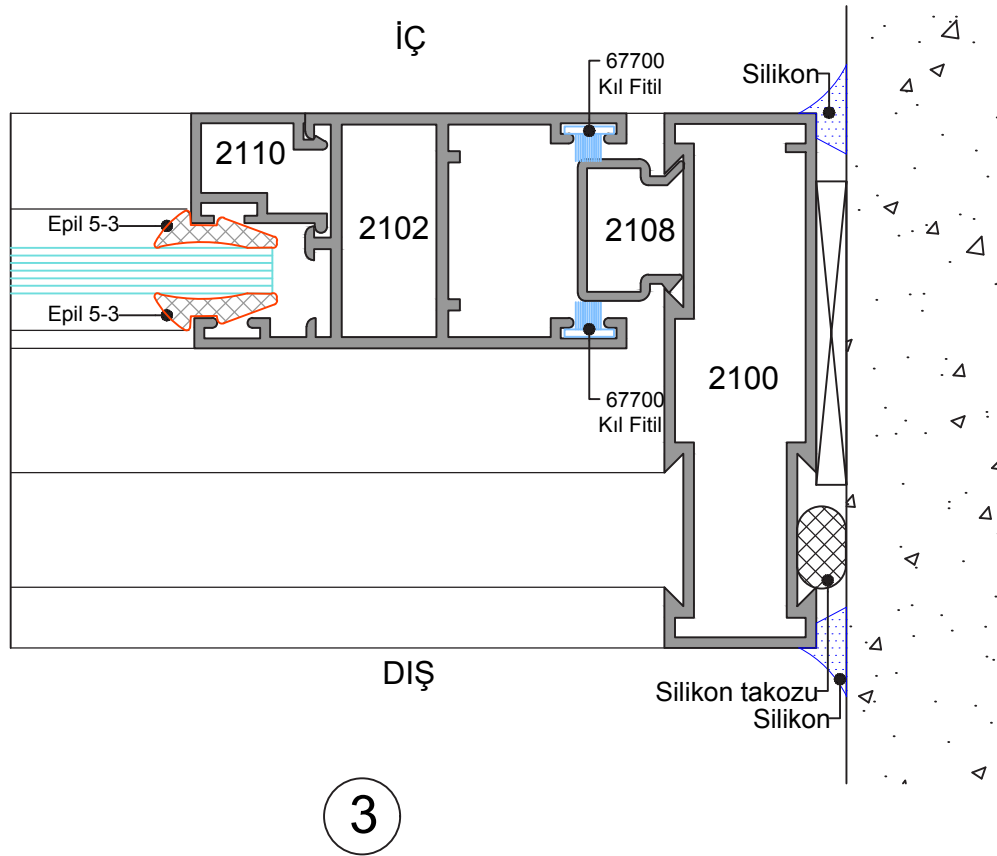


★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.





★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.





HİLAL
Alüminyum

PROFİL KATALOĞU

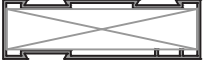
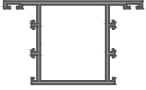
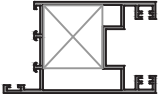
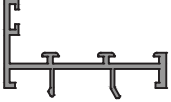
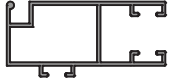
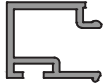
GENİŞ TUBA SERİSİ

SLIDING WINDOWS SERIE

★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

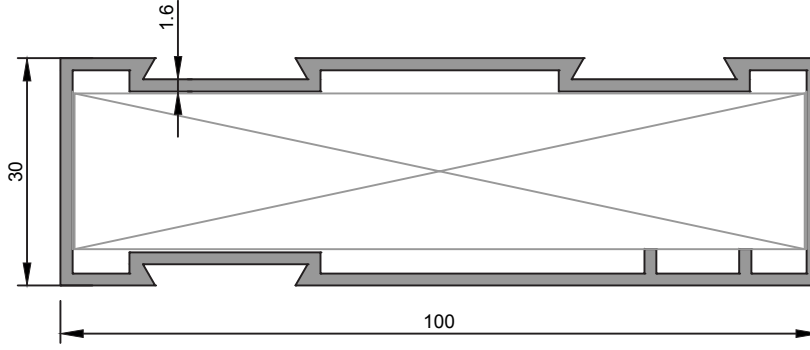
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	2116	Kasa Profili	1,243 kg/m	52,66	7,05	
	1770	Orta Kayıt Profili	1,110 kg/m	15,68	12,49	
	2119	Kanat Profili	1,209 kg/m	21,48	13,33	
	2104	Sineklik Kanat Profili	0,713 kg/m	7,05	1,27	
	2127	Adaptör Profili	0,450 kg/m	4,28	0,45	
	2125	Kenet Adaptör Profili	0,433 kg/m	5,42	1,35	
	1843	Sürme Sineklik Profili	0,360 kg/m	2,34	0,65	
	2126	Orta Kenet Profili	0,298 kg/m	1,50	0,15	
	2117	Alt Ray	0,281 kg/m	0,56	0,29	
	2118	Üst Ray	0,219 kg/m	0,61	0,15	
	2132	Çiftli Ray	1,056 kg/m	30,09	1,20	
	2788	Sineklik Rayı	0,325 kg/m	2,48	0,11	
	2108	Sineklik Çıtası	0,137 kg/m	...	...	
	2110	Tek Cam Çıtası	0,191 kg/m	...	...	

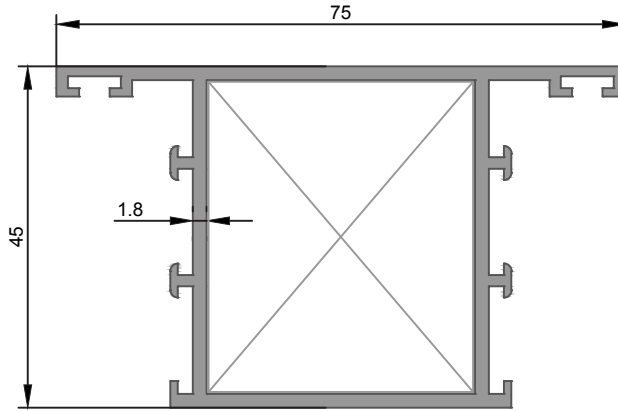
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

[illegible]

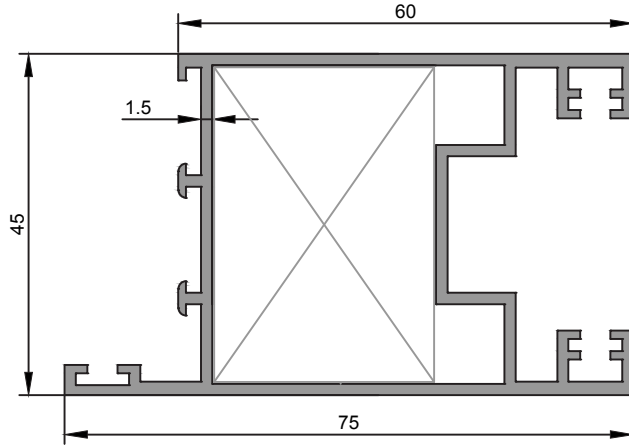
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



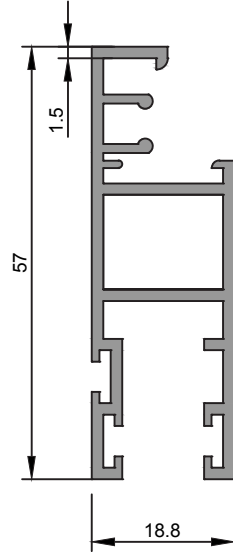
2116
Kasa Profili
1,243 kg/m
Jx=52,66 cm ⁴ Jy=7,05 cm ⁴



1770
Orta Kayıt Profili
1,110 kg/m
Jx=15,68 cm ⁴ Jy=12,49 cm ⁴



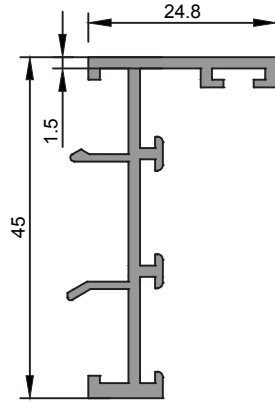
2119
Kanat Profili
1,209 kg/m
Jx=21,48 cm ⁴ Jy=13,33 cm ⁴



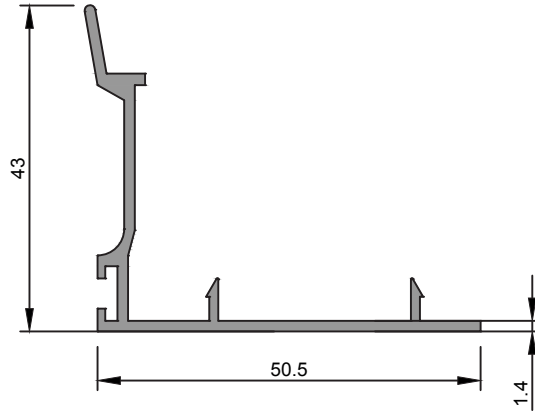
2104
Sineklik Kanat Profili
0,713 kg/m
Jx=7,05 cm ⁴ Jy=1,27 cm ⁴

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

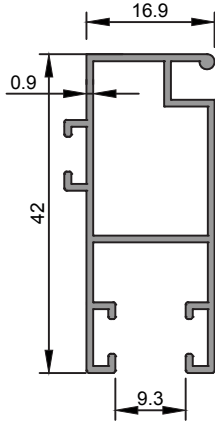


2127
Adaptör Profili
0,450 kg/m
Jx=4,28 cm ⁴ Jy=0,45 cm ⁴

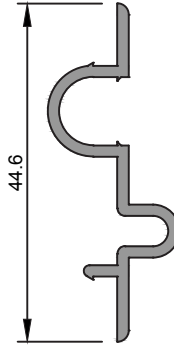


2125
Kenet Adaptörü
0,433 kg/m
Jx=5,42 cm ⁴ Jy=1,35 cm ⁴

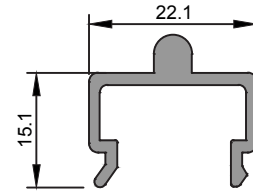
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



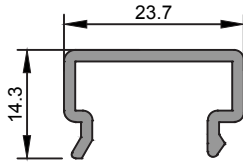
1843
Sürme Sineklik Profili
0,360 kg/m
Jx=2,34 cm ⁴ Jy=0,65 cm ⁴



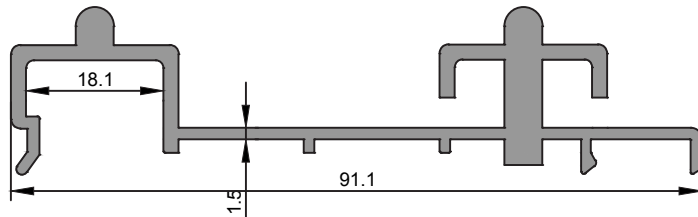
2126
Orta Kenet Profili
0,298 kg/m
Jx=1,50 cm ⁴ Jy=0,15 cm ⁴



2117
Alt Ray
0,281 kg/m
Jx=0,56 cm ⁴ Jy=0,29 cm ⁴

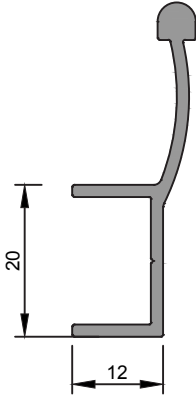


2118
Üst Ray
0,219 kg/m
Jx=0,61 cm ⁴ Jy=0,15 cm ⁴

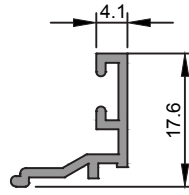


2132
Çiftli Ray
1,056 kg/m
Jx=30,09 cm ⁴ Jy=1,20 cm ⁴

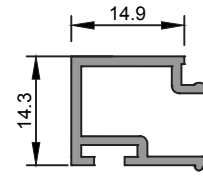
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



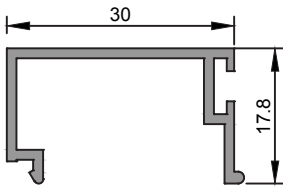
2788
Sineklik Rayı
0,325 kg/m
$Jx=2,48 \text{ cm}^4$ $Jy=0,11 \text{ cm}^4$



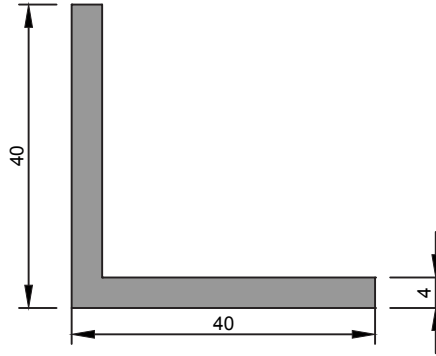
2108
Sineklik Çıtası
0,137 kg/m



2110
Tek Cam Çıtası
0,191 kg/m

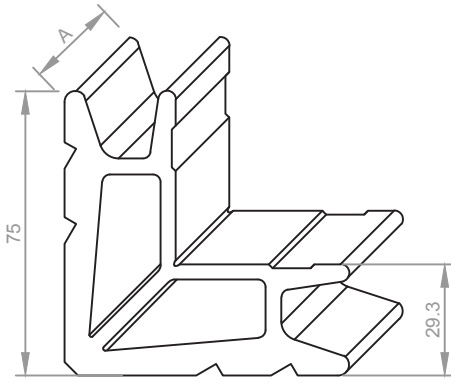


2128
Tek Cam Çıtası
0,260 kg/m



1114
Tuba Bağlantı
0,824 kg/m

KÖŞE TAKOZU KESİM ÖLÇÜLERİ

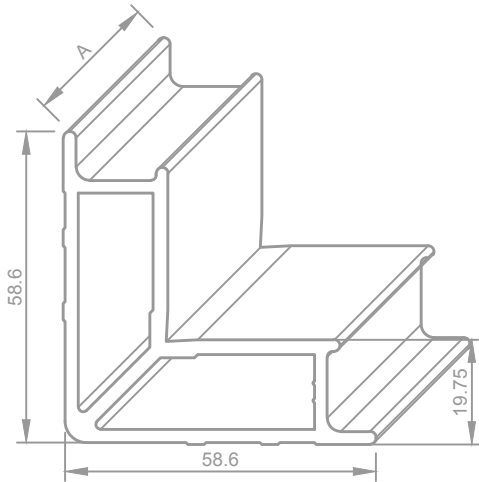


2431

Köşe Takozu

4,775 kg/m

Aksesuar Kodu	Profil Kodu	Kesim Ölçüsü A(mm)
K2431 415	2119	41.5



2432

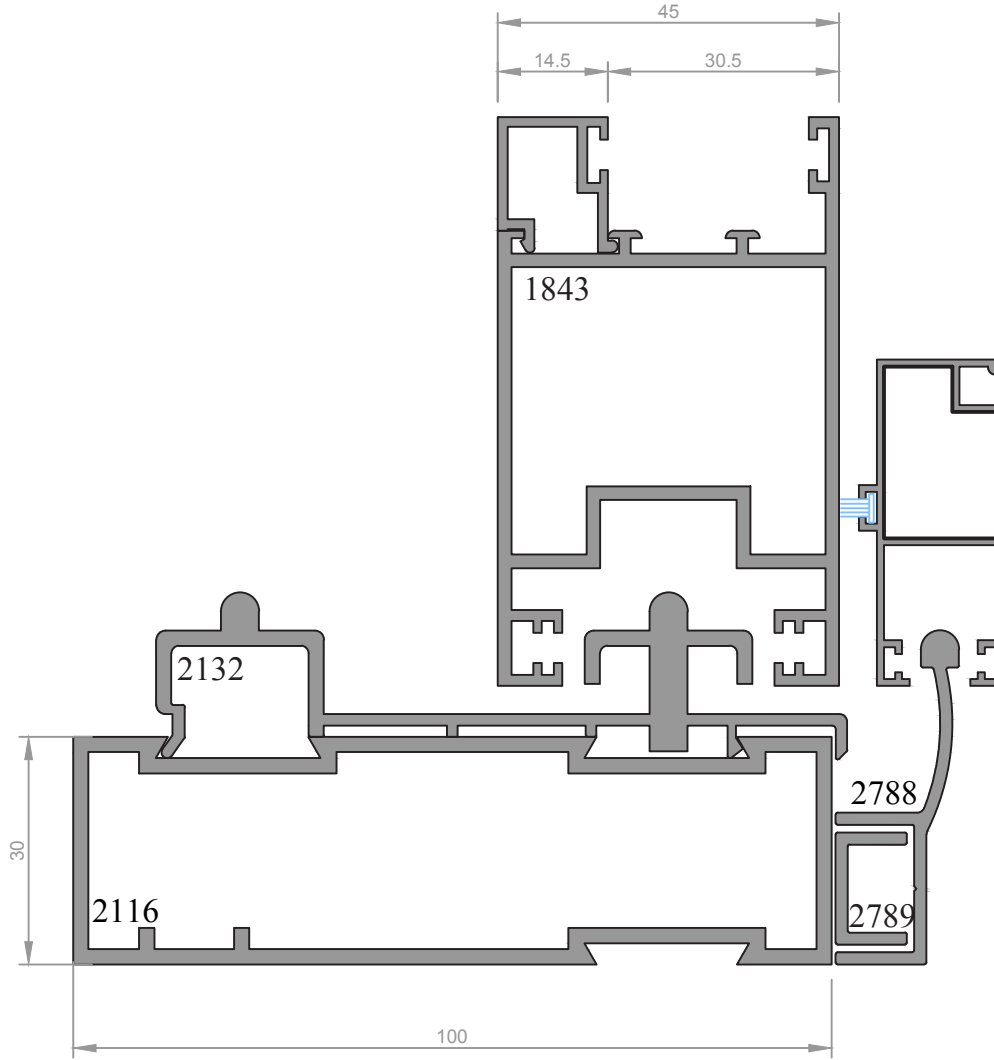
Köşe Takozu

1,648 kg/m

Aksesuar Kodu	Profil Kodu	Kesim Ölçüsü A(mm)
K2432 963	2116	96.3

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.





HİLAL
Alüminyum

PROFİL KATALOĞU

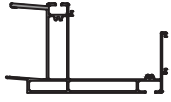
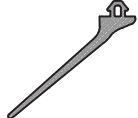
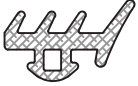
VERANDA PROFİLLERİ

VERANDA PROFILES

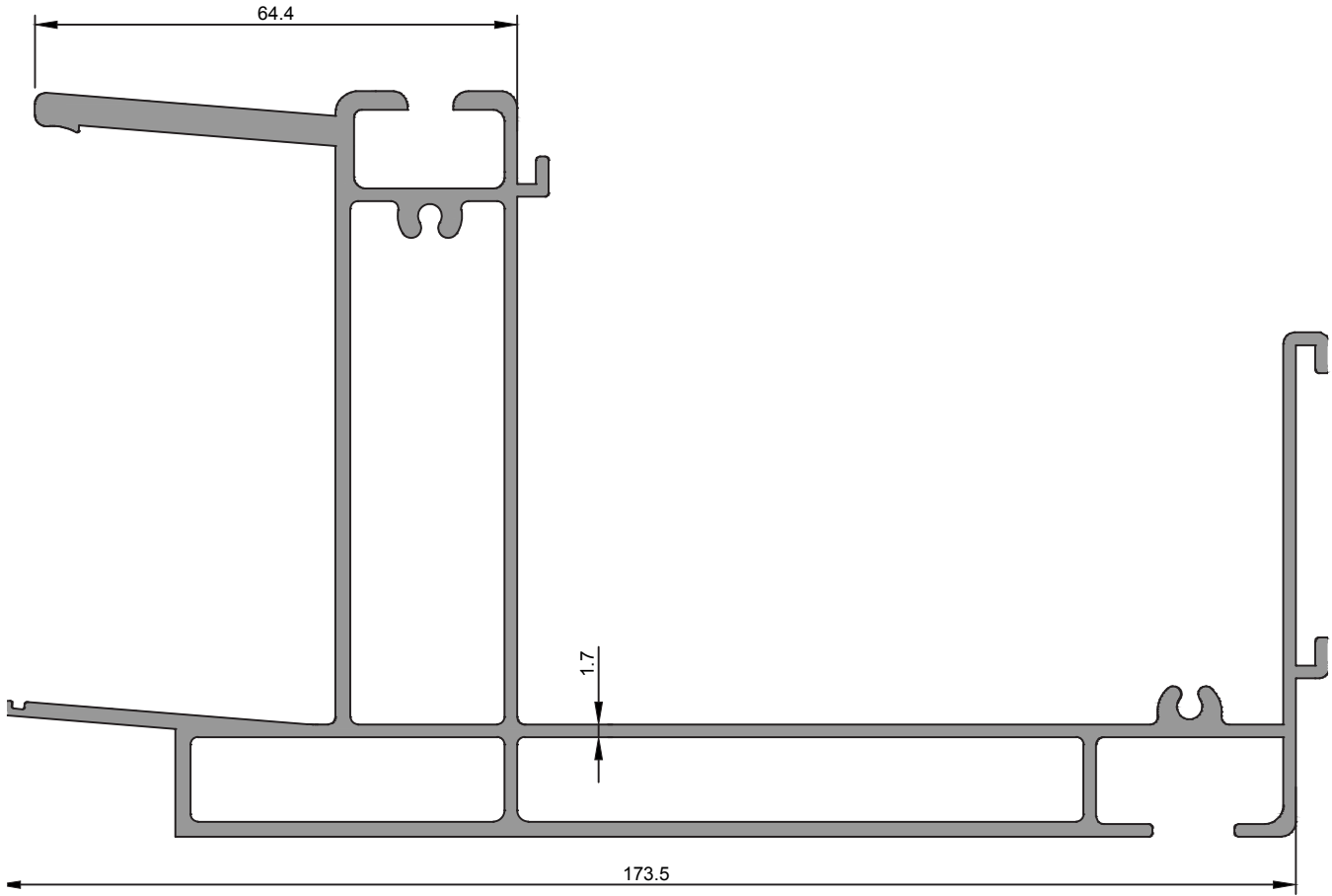
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

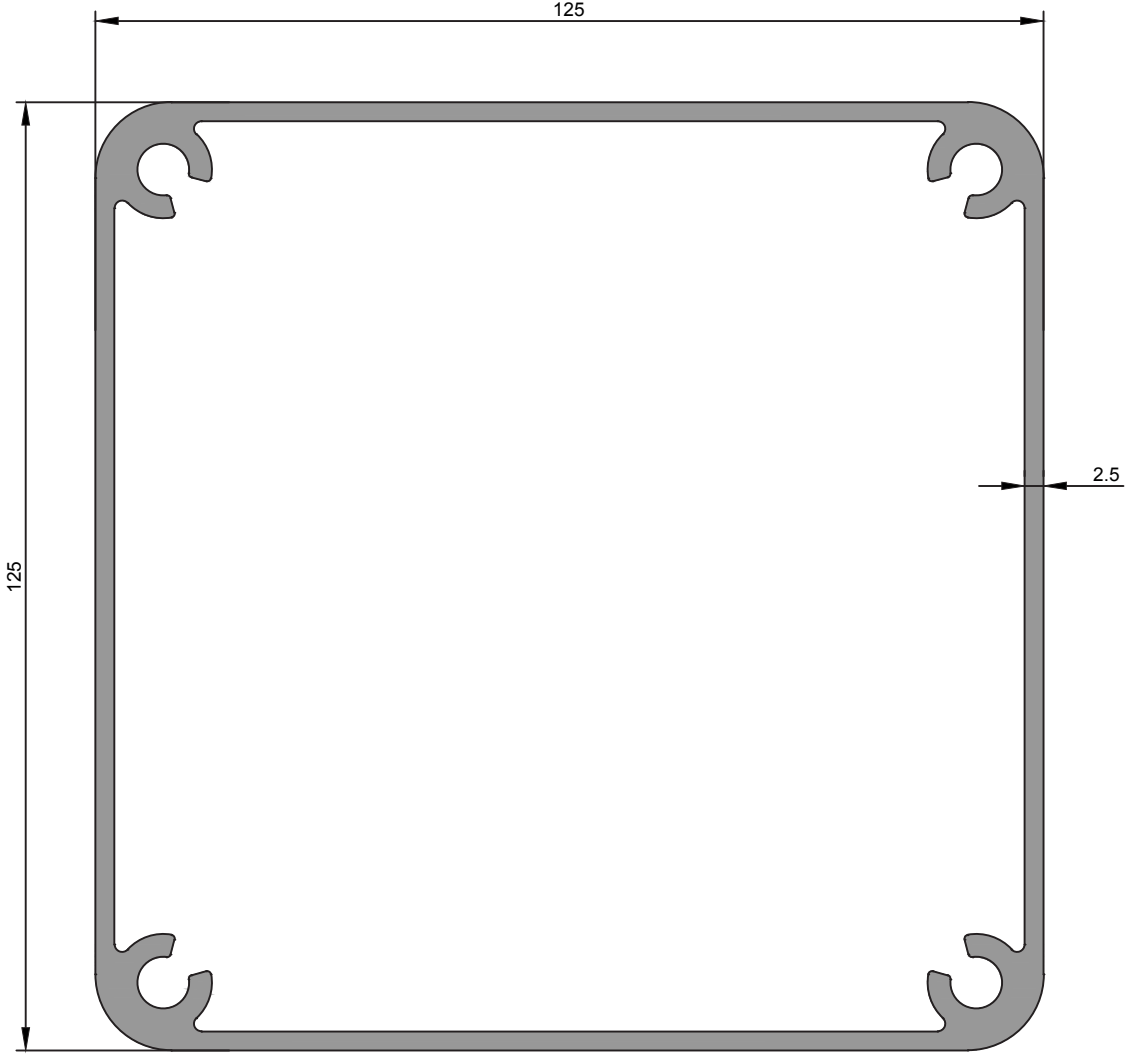
PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				$J_x \text{ (cm}^4\text{)}$	$J_y \text{ (cm}^4\text{)}$	
	4089	Oluk Profili	3,812 kg/m	407,26	137,52	
	4084	Dikme Profili	4,060 kg/m	383,39	383,39	
	4086	Duvar Profili	2,623 kg/m	24,30	19,91	
	4085	Taşıyıcı Profil	2,699 kg/m	122,17	31,78	
	4087	Veranda Profili	0,462 kg/m	15,21	0,11	
	4088	Taşıyıcı Kapak Profili	0,640 kg/m	12,39	3,19	
	4090	Oluk Kapak Profili	1,523 kg/m	136,56	1,04	
	HL60	Fitil	283 gr/m	...	...	
	HL61	Dış Cam Fitili	93 gr/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



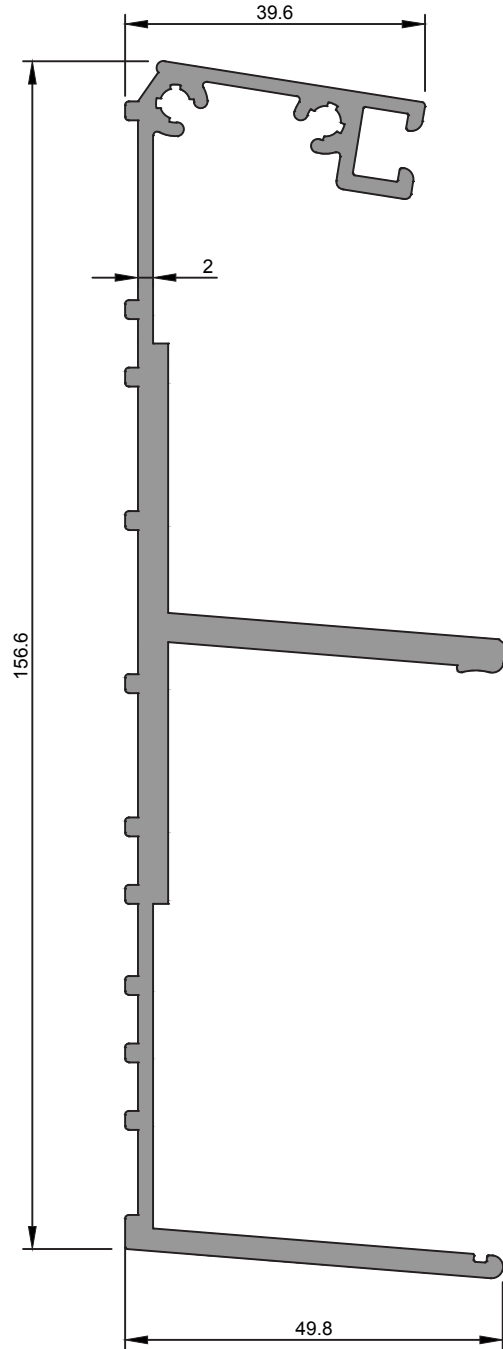
4089
Oluk Profili
3,812 kg/m
Jx=407,26 cm ⁴ Jy=137,52cm ⁴

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

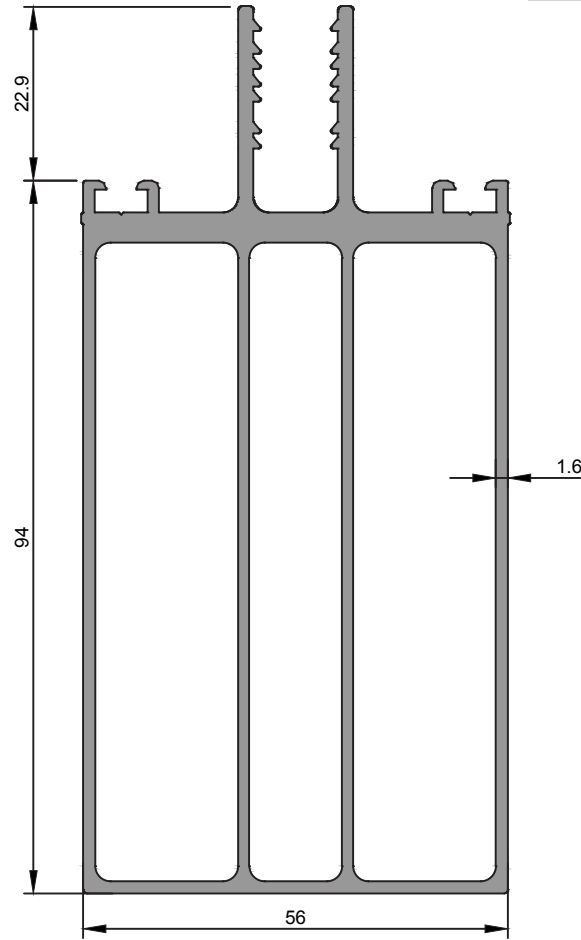


4084
Dikme Profili
4,060 kg/m
$Jx=383,39 \text{ cm}^4$ $Jy=383,39 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

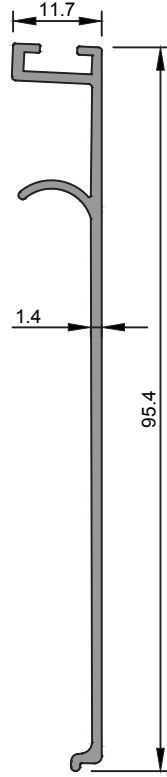


★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

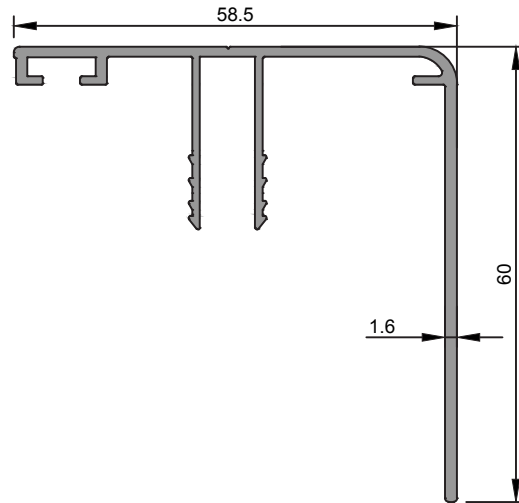


4085
Taşıyıcı Profili
2,699 kg/m
$J_x=122,17 \text{ cm}^4$ $J_y=31,78 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

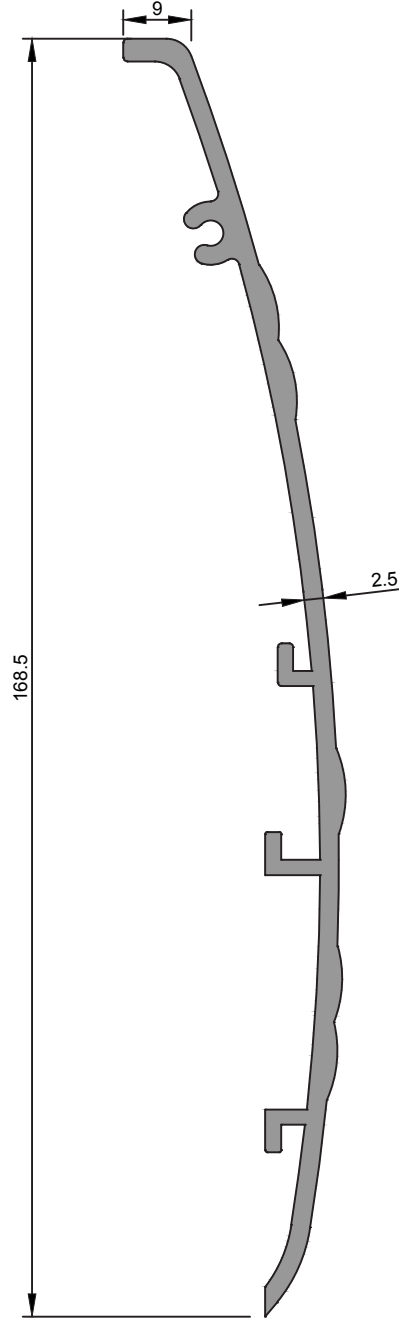


4087
Veranda Profili
0,462 kg/m
$Jx=15,21 \text{ cm}^4$ $Jy=0,11 \text{ cm}^4$



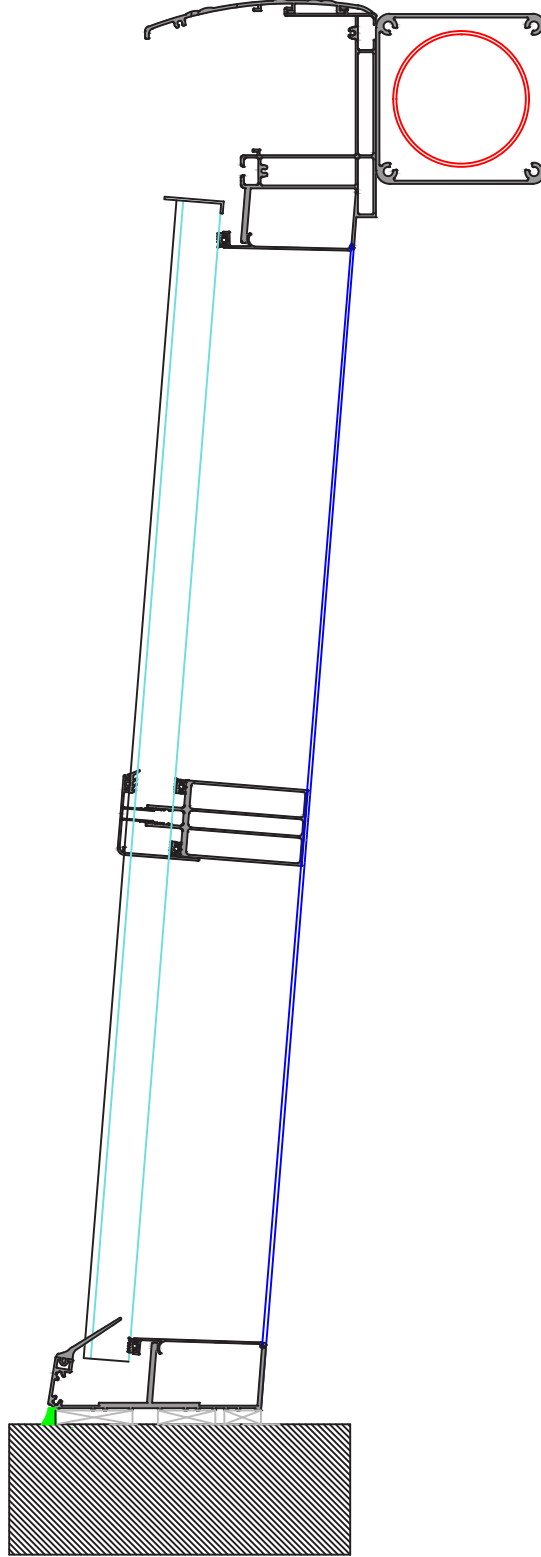
4088
Taşıyıcı Kapak Profili
0,640 kg/m
$Jx=12,39 \text{ cm}^4$ $Jy=3,19 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

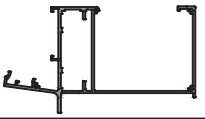
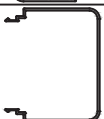
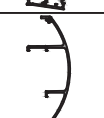
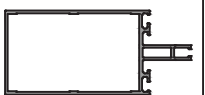
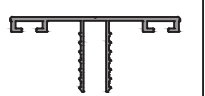
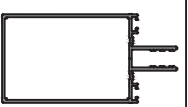
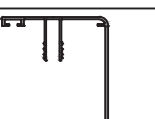


4090
Oluk Kapak Profili
1,523 kg/m
$Jx=136,56 \text{ cm}^4$ $Jy=1,04 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



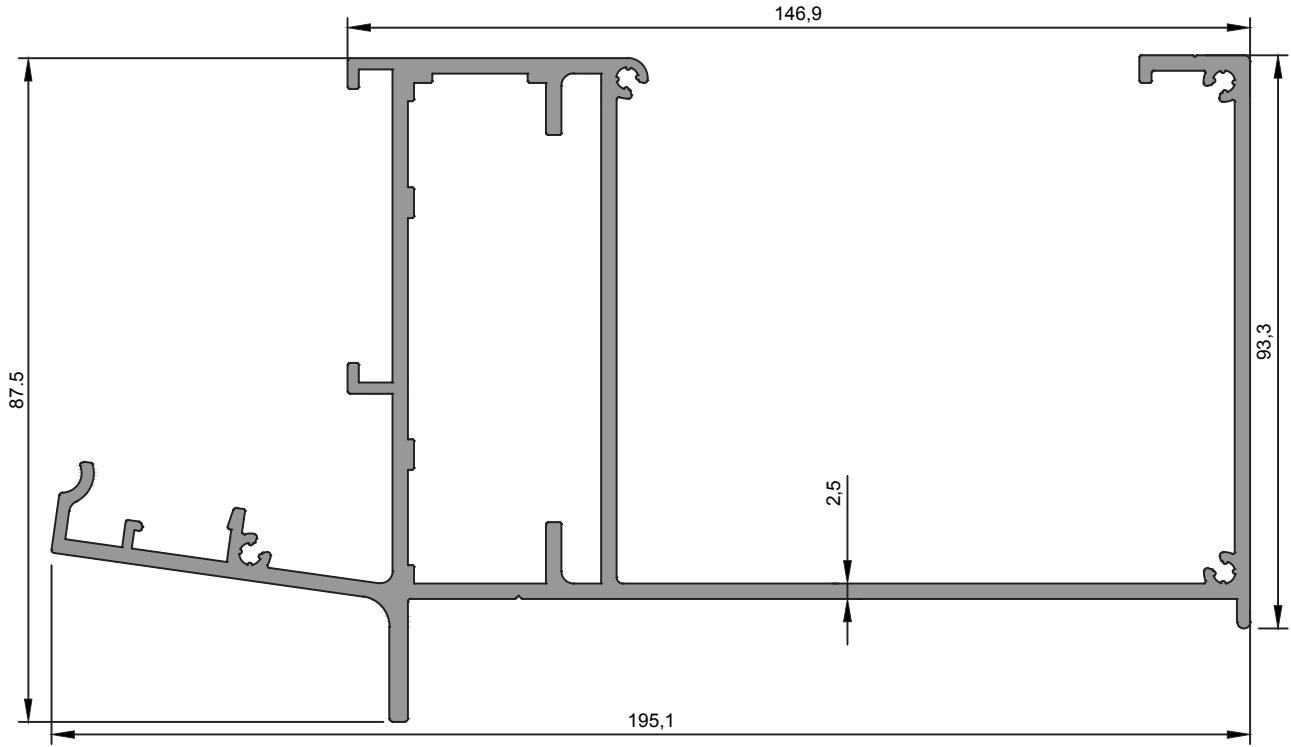
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	4393	Oluk Profili	4,176 kg/m	523,36	167,84	
	4436	Dikme Profili	2,013 kg/m	125,32	25,42	
	4435	Dikme Kapak Profili	1,606 kg/m	122,77	55,84	
	4439	Duvar Profili	2,386 kg/m	378,37	41,58	
	4437	Oluk Kapak Profili	1,250kg/m	60,92	5,79	
	4438	Veranda Profili	0767 kg/m	28,68	1,70	
	2972	86'lık Yatay Taşıyıcı Profili	1,643 kg/m	73,83	21,32	
	2019	Kapak Altı Profili	0,430 kg/m	...	...	
	2020	Kapak Profili	0,333 kg/m	...	...	
	3325	Taşıyıcı Kapak Profili	0,428 kg/m	...	...	
	4504	Taşıyıcı Profil	1,672 kg/m	79,60	27,16	
	4088	Taşıyıcı Kapak Profili	0,640 kg/m	...	...	

[illegible]

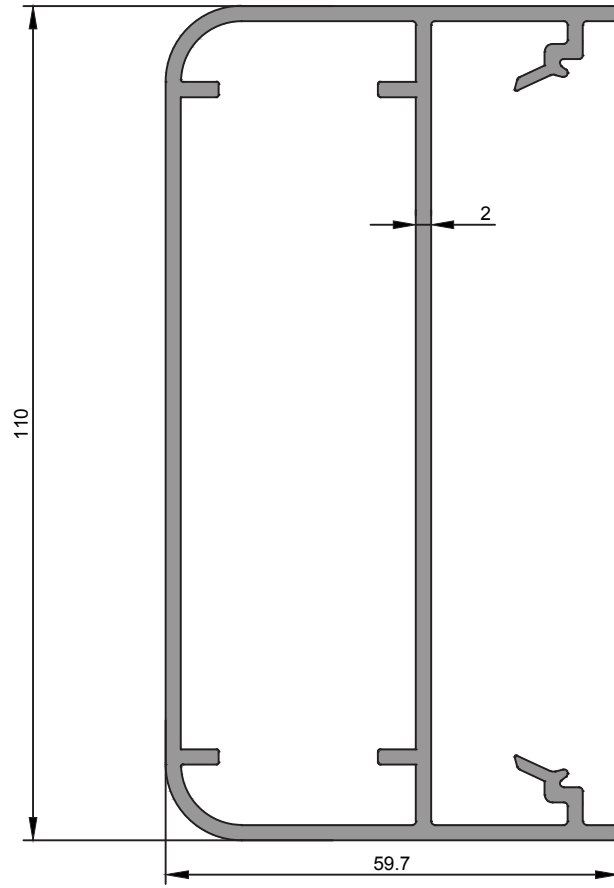
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



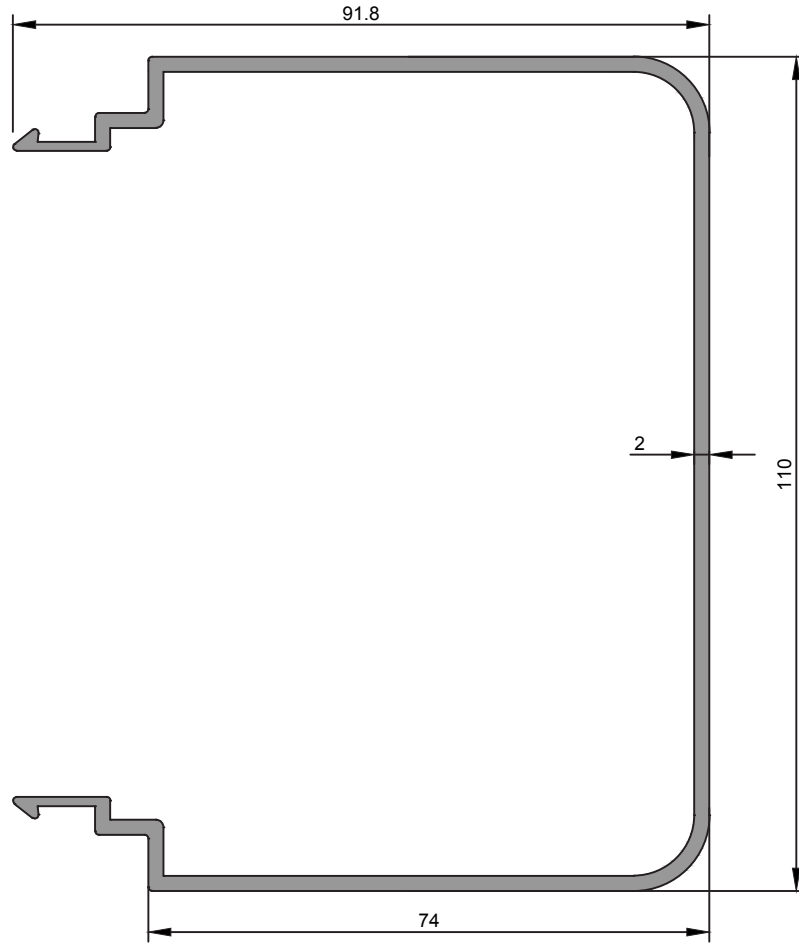
4393
Oluk Profili
4,176 kg/m
$Jx=523,36 \text{ cm}^4$ $Jy=167,84 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



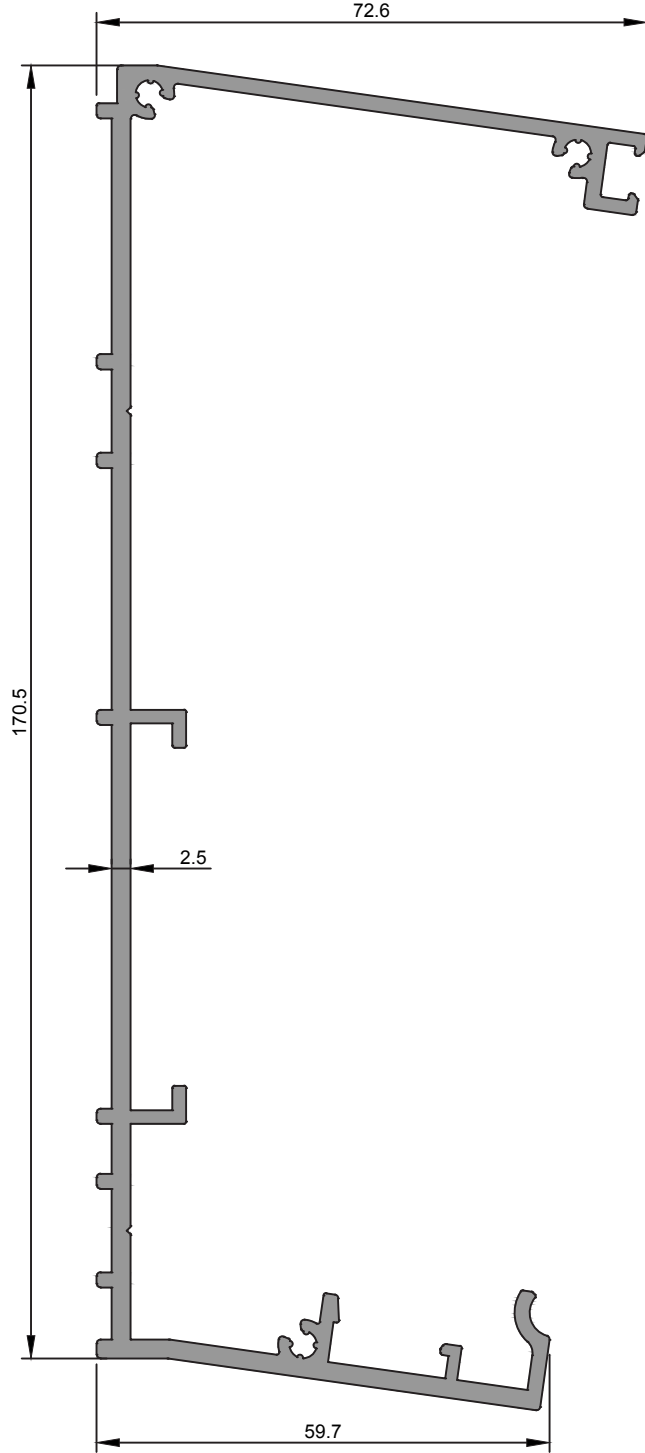
4436
Dikme Profili
2,013 kg/m
$Jx=125,32 \text{ cm}^4$ $Jy=25,42 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



4435
Dikme Kapak Profili
1,606 kg/m
$J_x=122,77 \text{ cm}^4$ $J_y=55,84 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



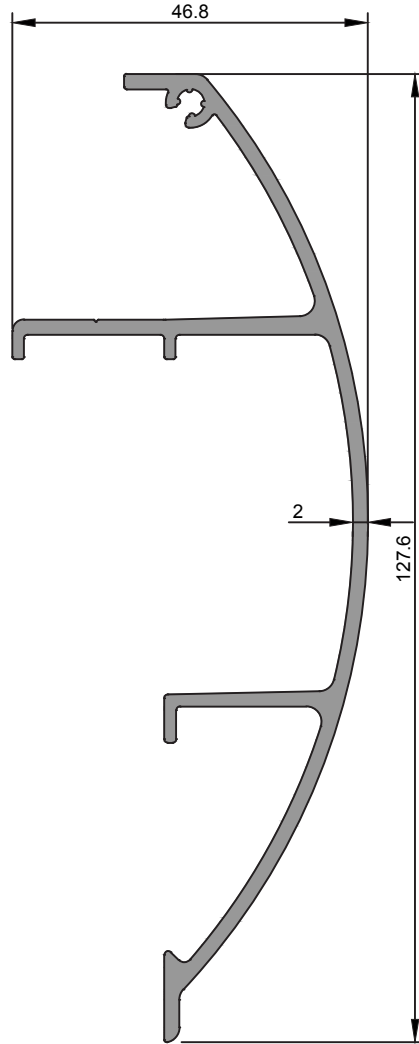
4439

Duvar Profili

2,386 kg/m

$Jx=378,37 \text{ cm}^4$ $Jy=41,58 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



4437
Oluk Kapak Profili
1,250 kg/m
$Jx=60,92 \text{ cm}^4$ $Jy=5,79 \text{ cm}^4$

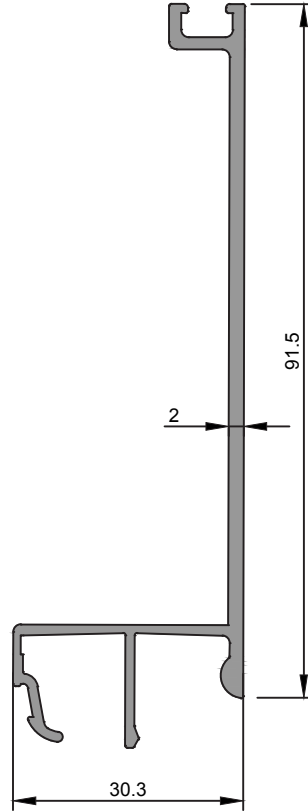
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

4438

Veranda Profili

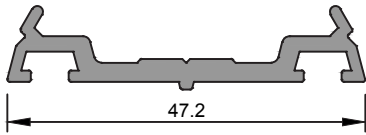
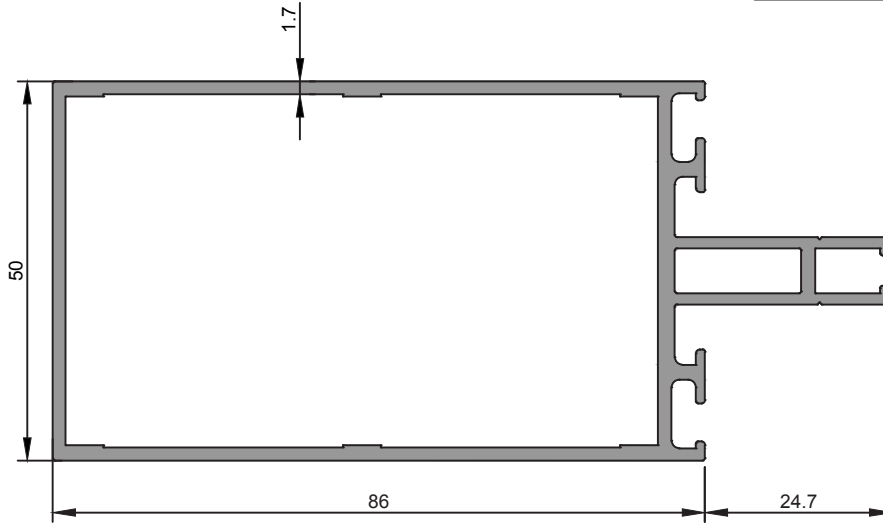
0,767 kg/m

$J_x=28,68 \text{ cm}^4 J_y=1,70 \text{ cm}^4$

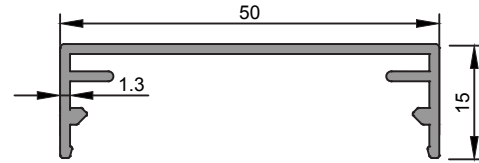


★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

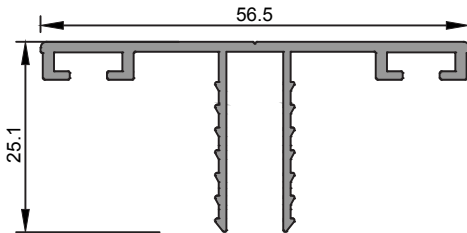
2972
Yatay Taşıyıcı Profil (86)
1,643 kg/m
$J_x=73,83 \text{ cm}^4$ $J_y=21,32 \text{ cm}^4$



2019
Kapak Altı Profili
0,430 kg/m

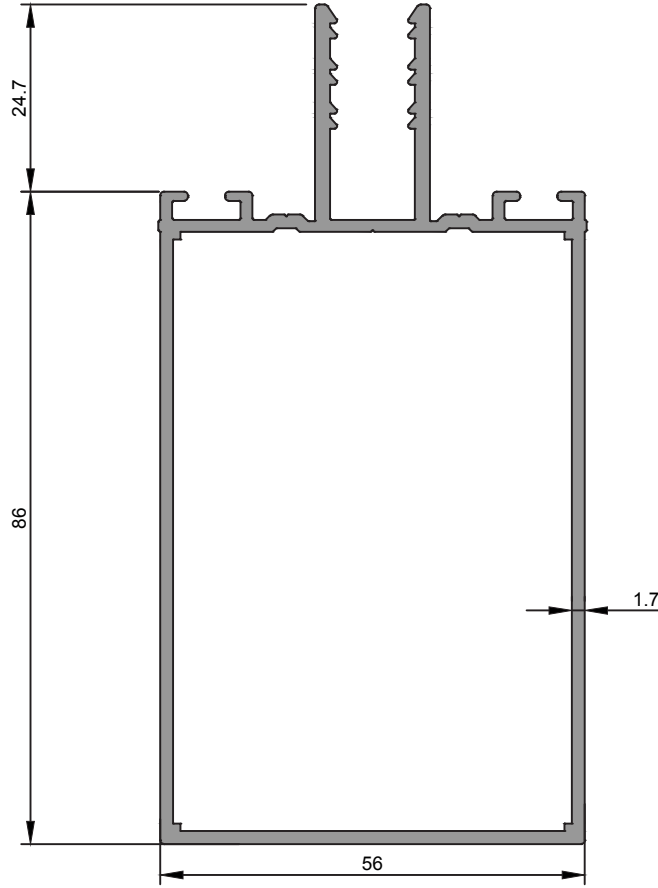


2020
Kapak Profili
0,333 kg/m

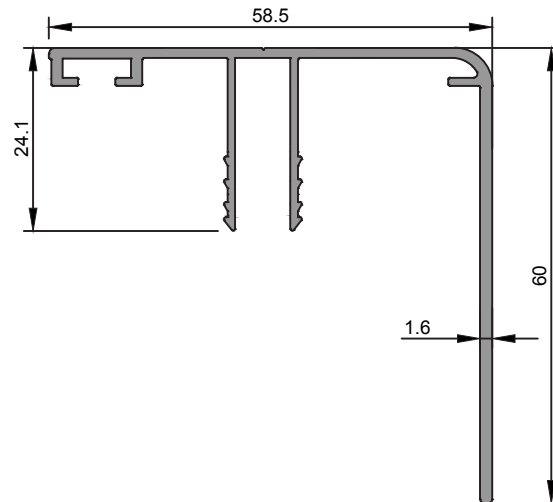


3325
Veranda Profili
0,428 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

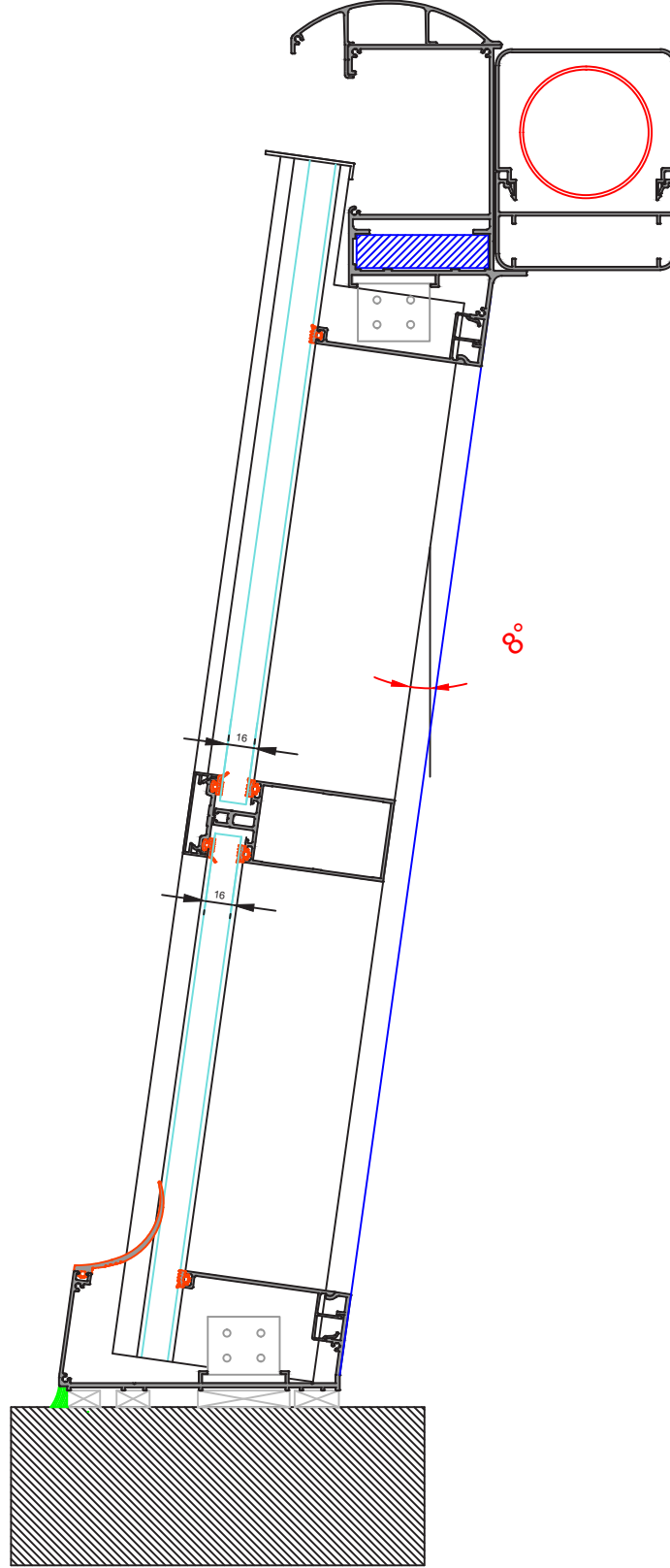


4504
Taşıyıcı Profil(86)
1,672 kg/m
$J_x=79,60 \text{ cm}^4$ $J_y=27,16 \text{ cm}^4$



4088
Veranda Profili
0,640 kg/m
$J_x=12,39 \text{ cm}^4$ $J_y=3,19 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.





HİLAL
Alüminyum

PROFİL KATALOĞU

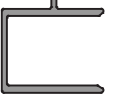
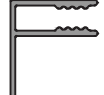
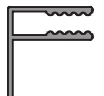
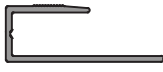
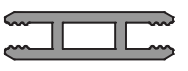
KOMPOZİT PROFİLLERİ

COMPOSITE PANEL PROFILES

★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

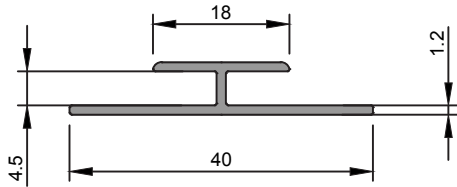
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1337	Kompozit Profili	0,202 kg/m	0,69	0,04	
	1085	Kompozit Profili	0,238 kg/m	0,77	0,05	
	1764	Kompozit Profili	0,233 kg/m	0,79	0,07	
	1243	Kompozit Profili	0,230 kg/m	0,74	0,07	
	1591	Kompozit Profili	0,205 kg/m	0,63	0,08	
	1633	Kompozit Profili	0,169 kg/m	0,37	0,05	
	1851	Kompozit Profili	0,560 kg/m	2,94	1,72	
	1979	Kompozit Profili	0,520 kg/m	4,83	1,29	
	1188	Kompozit Profili	0,217 kg/m	0,44	0,16	
	1907	Kompozit Profili	0,176 kg/m	0,30	0,10	
	1019	Kompozit Profili	0,163 kg/m	0,47	0,08	
	1159	Kompozit Profili	0,403 kg/m	11,58	0,16	
	1193	Kompozit Profili	0,280 kg/m	1,34	0,60	
	1240	Kompozit Profili	0,123 kg/m	0,15	0,03	

[illegible]

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

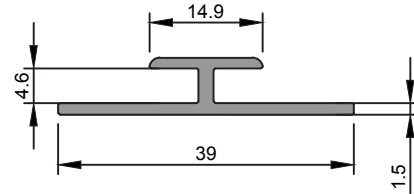


1337

Kompozit Profili

0,202 kg/m

$J_x=0,69 \text{ cm}^4$ $J_y=0,04 \text{ cm}^4$

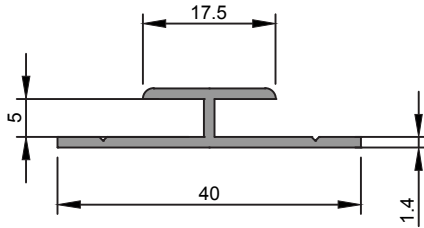


1085

Kompozit Profili

0,238 kg/m

$J_x=0,77 \text{ cm}^4$ $J_y=0,05 \text{ cm}^4$

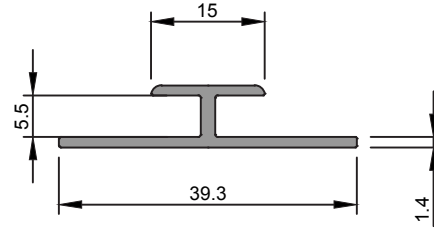


1764

Kompozit Profili

0,233 kg/m

$J_x=0,79 \text{ cm}^4$ $J_y=0,07 \text{ cm}^4$

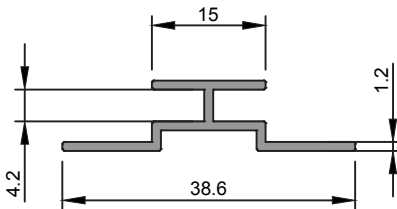


1243

Kompozit Profili

0,230 kg/m

$J_x=0,74 \text{ cm}^4$ $J_y=0,07 \text{ cm}^4$

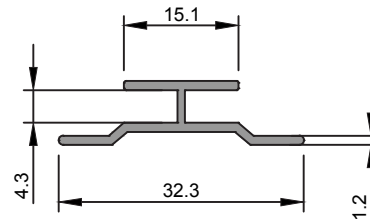


1591

Kompozit Profili

0,205 kg/m

$J_x=0,63 \text{ cm}^4$ $J_y=0,08 \text{ cm}^4$



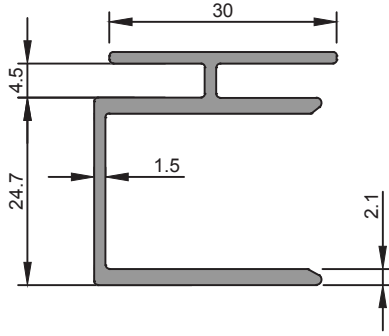
1633

Kompozit Profili

0,169 kg/m

$J_x=0,37 \text{ cm}^4$ $J_y=0,05 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

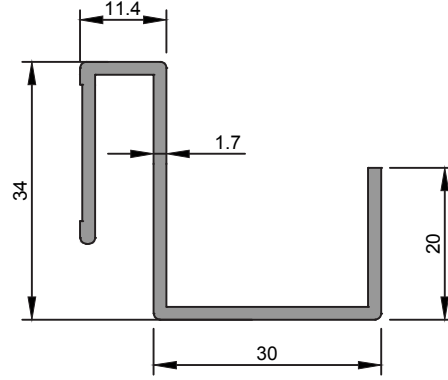


1851

Kompozit Profili

0,560 kg/m

$Jx=2,94 \text{ cm}^4$ $Jy=1,72 \text{ cm}^4$

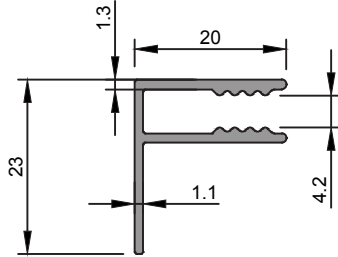


1979

Kompozit Profili

0,520 kg/m

$Jx=4,83 \text{ cm}^4$ $Jy=1,29 \text{ cm}^4$

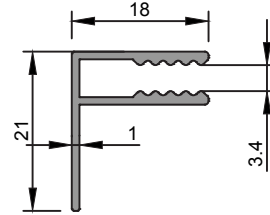


1188

Kompozit Profili

0,217 kg/m

$Jx=0,44 \text{ cm}^4$ $Jy=0,16 \text{ cm}^4$



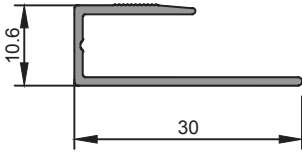
1907

Kompozit Profili

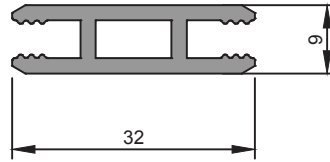
0,176 kg/m

$Jx=0,30 \text{ cm}^4$ $Jy=0,10 \text{ cm}^4$

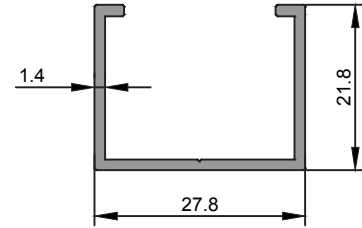
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



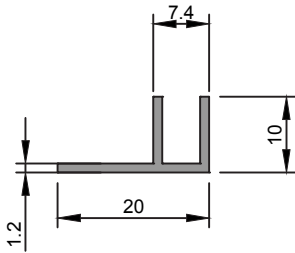
1019
Kompozit Profili
0,163 kg/m
$J_x=0,47 \text{ cm}^4$ $J_y=0,08 \text{ cm}^4$



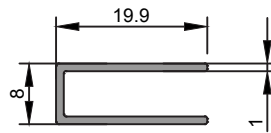
1159
Kompozit Profili
0,403 kg/m
$J_x=11,58 \text{ cm}^4$ $J_y=0,16 \text{ cm}^4$



1193
Kompozit Profili
0,280 kg/m
$J_x=1,34 \text{ cm}^4$ $J_y=0,60 \text{ cm}^4$

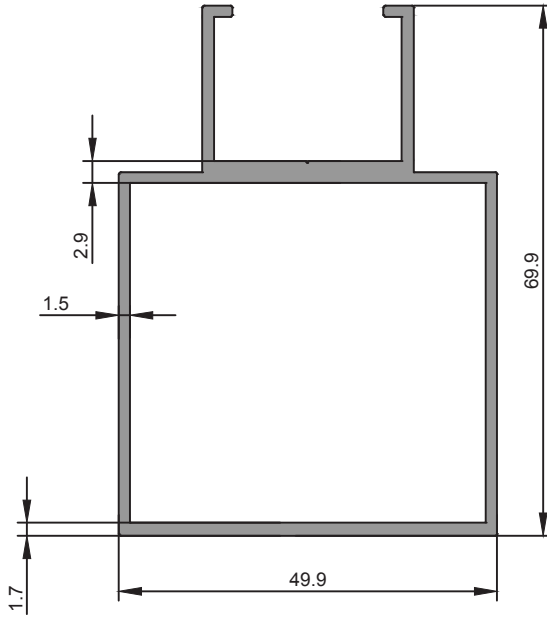


1240
Kompozit Profili
0,123 kg/m
$J_x=0,15 \text{ cm}^4$ $J_y=0,03 \text{ cm}^4$



1018
Kompozit Profili
0,123 kg/m
$J_x=0,17 \text{ cm}^4$ $J_y=0,05 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



1192
Kompozit Profili
1,093 kg/m
$Jx=20,31 \text{ cm}^4$ $Jy=12,57 \text{ cm}^4$



HİLAL
Alüminyum

PROFİL KATALOĞU

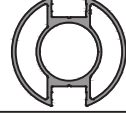
KÜPEŞTE PROFİLLERİ

HANDRAILS PROFILES

★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

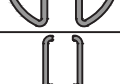
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1361	40x1,3 Küpeşte Profili	0,815 kg/m	...	...	
	1020	40x1,6 Küpeşte Profili	0,912 kg/m	...	...	
	1251	40x2 Küpeşte Profili	1,064 kg/m	...	...	
	1021	40x1,5 Küpeşte Profili	0,870 kg/m	...	...	
	2052	40x1,5 Küpeşte Profili	0,700 kg/m	...	...	
	1359	40x1,6 Küpeşte Profili	0,688 kg/m	...	...	
	1014	40x1,6 Küpeşte Profili	0,780 kg/m	...	...	
	1314	39,2x1,7 Küpeşte Profili	0,893 kg/m	...	...	
	1690	50,3x1,6 Küpeşte Profili	0,935 kg/m	...	...	
	1194	30x1,5 Küpeşte Profili	0,519 kg/m	...	...	
	1252	30x1,8 Küpeşte Profili	0,672 kg/m	...	...	
	2014	40x1,3 Küpeşte Profili	0,781 kg/m	...	...	
	2095	40x1,3 Küpeşte Profili	0,780 kg/m	...	...	
	1169	40x2 Küpeşte Profili	0,647 kg/m	...	...	

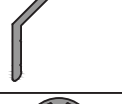
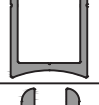
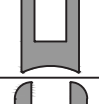
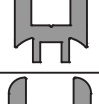
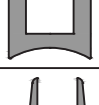
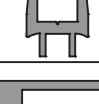
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				$J_x \text{ (cm}^4\text{)}$	$J_y \text{ (cm}^4\text{)}$	
	1926	40x2,5 Küpeşte Profili	0,798 kg/m	...	...	
	2640	35x1,3 Küpeşte Profili	0,373 kg/m	...	...	
	2641	35x1,5 Küpeşte Profili	0,428 kg/m	...	...	
	2736	35x2 Küpeşte Profili	0,562 kg/m	...	...	
	1064	Kapak Profili	0,060 kg/m	...	...	
	1315	Kapak Profili	0,064 kg/m	...	...	
	2015	Kapak Profili	0,079 kg/m	...	...	
	1191	Kapak Profili	0,085 kg/m	...	...	
	2194	35x1,3 Küpeşte Profili	0,817 kg/m	...	...	
	1173	30x2 Küpeşte Profili	0,477 kg/m	...	...	
	1048	30x3 Küpeşte Profili	0,690 kg/m	...	...	
	2639	19x1 Küpeşte Profili	0,153 kg/m	...	...	
	2519	19x1,2 Küpeşte Profili	0,182 kg/m	...	...	
	1804	16x1 Küpeşte Profili	0,128 kg/m	...	...	

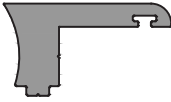
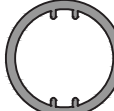
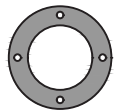
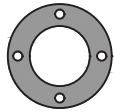
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				$J_x \text{ (cm}^4\text{)}$	$J_y \text{ (cm}^4\text{)}$	
	1606	16x1,2 Küpeşte Profili	0,151 kg/m	...	...	
	1063	16x1,5 Küpeşte Profili	0,185 kg/m	...	...	
	1011	16x2 Küpeşte Profili	0,238 kg/m	...	...	
	1308	16x4 Küpeşte Profili	0,409 kg/m	...	...	
	1172	16x5 Küpeşte Profili	0,468 kg/m	...	...	
	1605	Küpeşte Profili	1,043 kg/m	...	...	
	1317	Küpeşte Profili	1,266 kg/m	...	...	
	2055	Küpeşte Profili	0,834 kg/m	...	...	
	2054	Küpeşte Profili	0,832 kg/m	...	...	
	1986	Küpeşte Profili	1,238 kg/m	...	...	
	1985	Küpeşte Profili	1,414 kg/m	...	...	
	2070	Küpeşte Profili	0,770 kg/m	...	...	
	1005	Küpeşte Profili	0,973 kg/m	...	...	
	1162	Küpeşte Profili	1,092 kg/m	...	...	

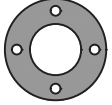
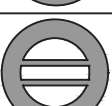
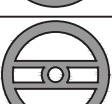
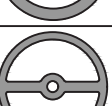
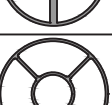
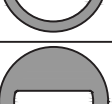
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1244	Küpeşte Profili	1,116 kg/m	...	...	
	1819	Küpeşte Profili	0,854 kg/m	...	...	
	1027	Küpeşte Profili	2,365 kg/m	...	...	
	1157	Küpeşte Profili	1,528 kg/m	...	...	
	1286	Küpeşte Profili	3,027 kg/m	...	...	
	1275	Küpeşte Profili	0,240 kg/m	...	...	
	1646	Küpeşte Profili	0,942 kg/m	...	...	
	1007	Küpeşte Profili	0,892 kg/m	...	...	
	1045	Küpeşte Profili	0,709 kg/m	...	...	
	1820	Küpeşte Profili	0,511 kg/m	...	...	
	1023	Küpeşte Profili	1,023 kg/m	...	...	
	1024	Küpeşte Profili	1,367 kg/m	...	...	
	1177	Küpeşte Profili	0,968 kg/m	...	...	
	1070	Küpeşte Profili	0,803 kg/m	...	...	

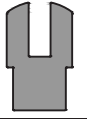
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				$J_x \text{ (cm}^4\text{)}$	$J_y \text{ (cm}^4\text{)}$	
	1072	Küpeşte Profili	0,737 kg/m	...	...	
	1071	Küpeşte Profili	0,383 kg/m	...	...	
	1003	Küpeşte Profili	1,508 kg/m	...	...	
	1615	Küpeşte Profili	0,306 kg/m	...	...	
	1163	Küpeşte Profili	0,243 kg/m	...	...	
	1013	Küpeşte Profili	2,649 kg/m	...	...	
	1028	Küpeşte Profili	2,524 kg/m	...	...	
	1818	Küpeşte Profili	1,502 kg/m	...	...	
	1930	Küpeşte Profili	1,465 kg/m	...	...	
	1174	Küpeşte Profili	1,412 kg/m	...	...	
	1000	Küpeşte Profili	8,003 kg/m	...	...	
	1001	Küpeşte Profili	6,648 kg/m	...	...	
	1647	Küpeşte Profili	1,055 kg/m	...	...	
	1077	Küpeşte Profili	1,587 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

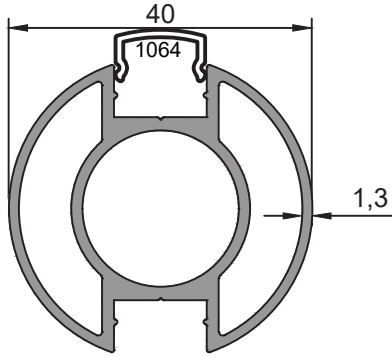
PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1379	Küpeşte Profili	4,039 kg/m	...	...	
	1073	Küpeşte Profili	5,389 kg/m	...	...	
	1917	Küpeşte Profili	3,910 kg/m	...	...	
	1817	Küpeşte Profili	2,430 kg/m	...	...	
	1009	Küpeşte Profili	3,070 kg/m	...	...	
	1075	Küpeşte Profili	3,628 kg/m	...	...	
	1098	Küpeşte Profili	4,144 kg/m	...	...	
	1219	Küpeşte Profili	2,675 kg/m	...	...	
	1178	Küpeşte Profili	2,750 kg/m	...	...	
	1008	Küpeşte Profili	2,773 kg/m	...	...	
	1374	Küpeşte Profili	1,653 kg/m	...	...	
	1319	Küpeşte Profili	1,295 kg/m	...	...	
	1164	Küpeşte Profili	2,460 kg/m	...	...	
	1183	Küpeşte Profili	4,530 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

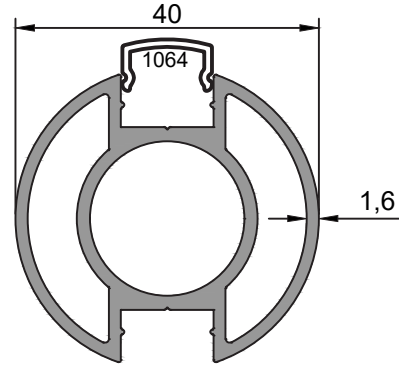
PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				$J_x \text{ (cm}^4\text{)}$	$J_y \text{ (cm}^4\text{)}$	
	2060	Küpeşte Profili	0,463 kg/m	...	...	
	2030	Küpeşte Profili	3,078 kg/m	...	...	
	1002	Küpeşte Profili	2,986 kg/m	...	...	
	1160	Küpeşte Profili	3,018 kg/m	...	...	
	1161	Küpeşte Profili	3,349 kg/m	...	...	
	1260	Küpeşte Profili	2,678 kg/m	...	...	
	1190	Küpeşte Profili	4,065 kg/m	...	...	
	1065	Küpeşte Profili	10,11 kg/m	...	...	
	1189	Küpeşte Profili	3,506 kg/m	...	...	
	1025	Küpeşte Profili	3,516 kg/m	...	...	
	1026	Küpeşte Profili	2,636 kg/m	...	...	
	1732	Küpeşte Profili	3,609 kg/m	...	...	
	1038	Küpeşte Profili	2,140 kg/m	...	...	
	1039	Küpeşte Profili	2,201 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

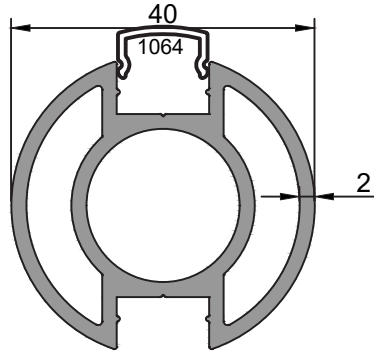
PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				$J_x \text{ (cm}^4\text{)}$	$J_y \text{ (cm}^4\text{)}$	
	4047	Küpeşte Profili	1,533 kg/m	...	...	
	4360	Küpeşte Profili	0,450 kg/m	...	...	
				...	...	
				...	...	
				...	...	
				...	...	
				...	...	
				...	...	
				...	...	
				...	...	
				...	...	
				...	...	
				...	...	
				...	...	



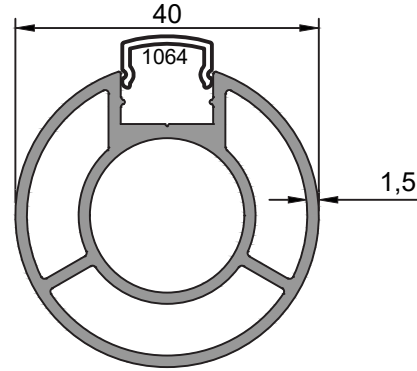
1361
Küpeşte Profili
0,815 kg/m



1020
Küpeşte Profili
0,912 kg/m

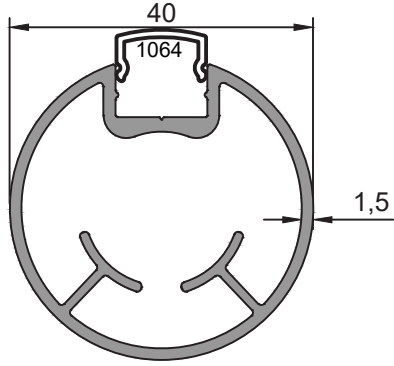


1251
Küpeşte Profili
1,064 kg/m

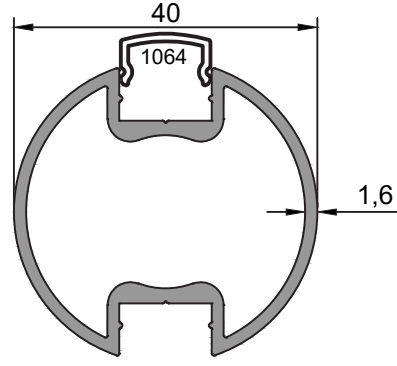


1021
Küpeşte Profili
0,870 kg/m

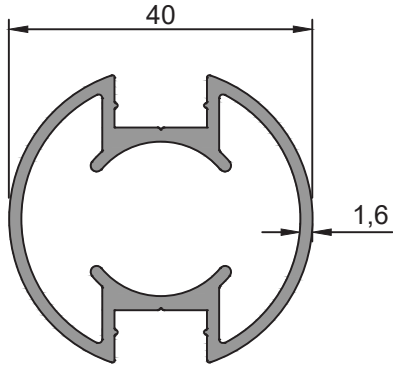
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



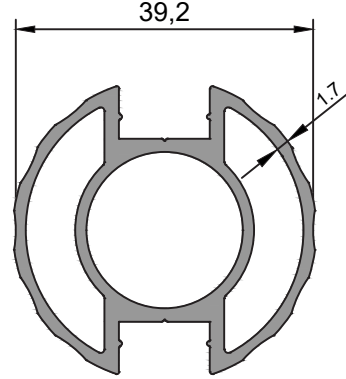
2052
Küpeşte Profili
0,700 kg/m



1359
Küpeşte Profili
0,688 kg/m

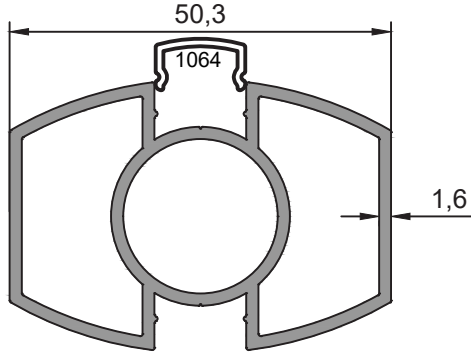


1014
Küpeşte Profili
0,780 kg/m

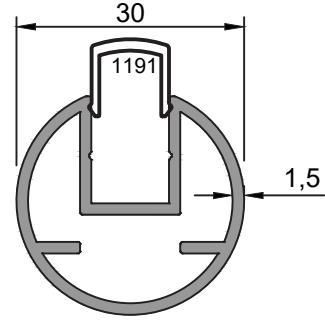


1314
Küpeşte Profili
0,893 kg/m

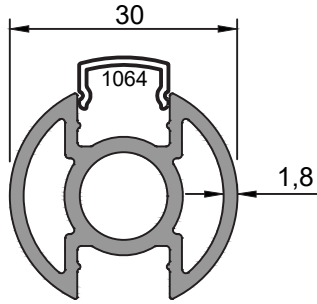
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



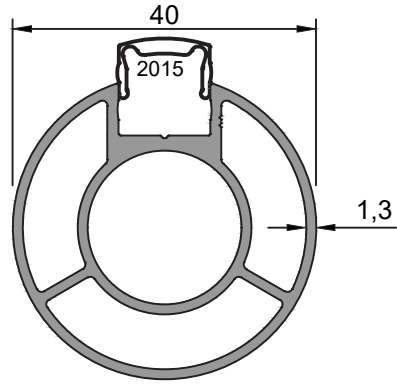
1690
Küpeşte Profili
0,935 kg/m



1194
Küpeşte Profili
0,519 kg/m

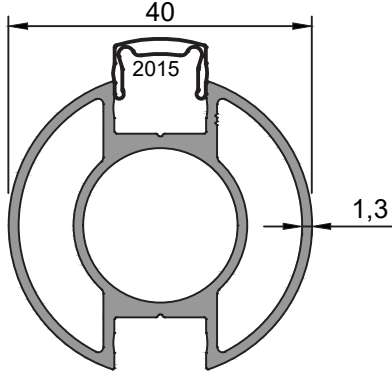


1252
Küpeşte Profili
0,672 kg/m

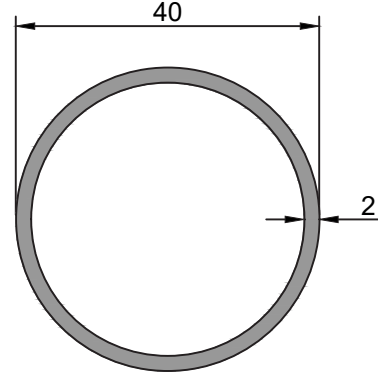


2014
Küpeşte Profili
0,781 kg/m

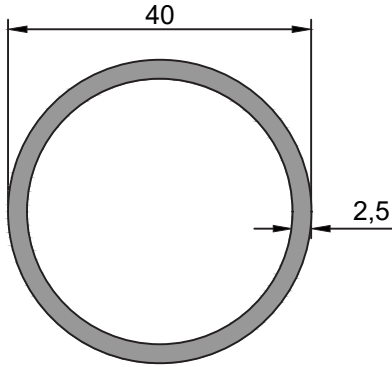
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



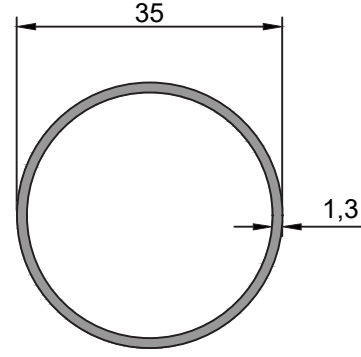
2095
Küpeşte Profili
0,780 kg/m



1169
Küpeşte Profili
0,647 kg/m

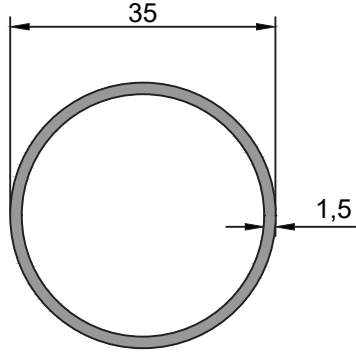


1926
Küpeşte Profili
0,798 kg/m

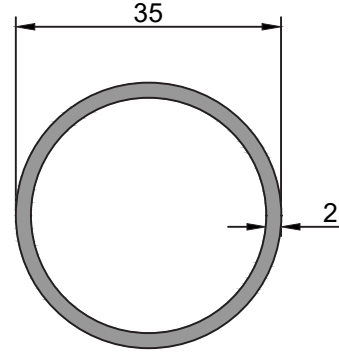


2640
Küpeşte Profili
0,373 kg/m

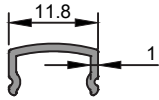
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



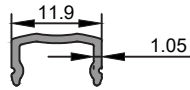
2641
Küpeşte Profili
0,428 kg/m



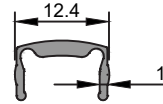
2736
Küpeşte Profili
0,562 kg/m



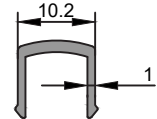
1064
0,060 kg/m



1315
0,064 kg/m



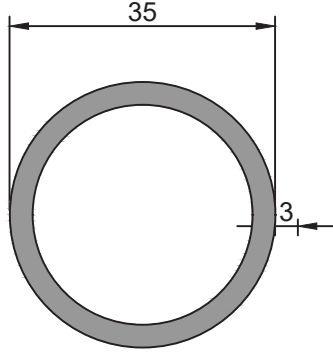
2015
0,079 kg/m



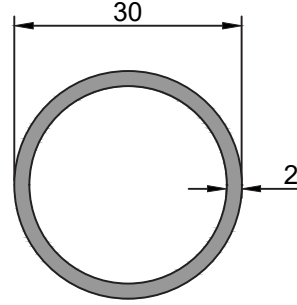
1191
0,085 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

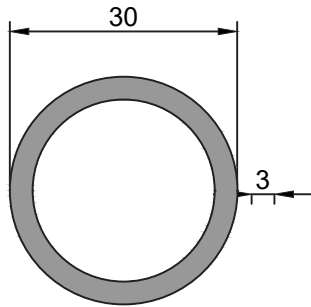
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



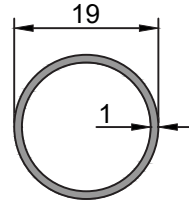
2194
Küpeşte Profili
0,817 kg/m



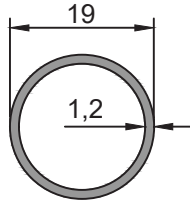
1173
Küpeşte Profili
0,477 kg/m



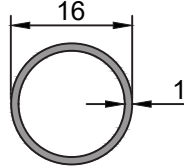
1048
Küpeşte Profili
0,690 kg/m



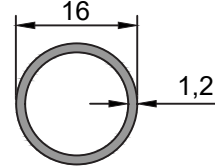
2639
Küpeşte Profili
0,153 kg/m



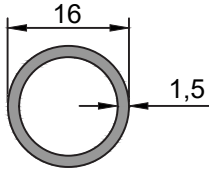
2519
Küpeşte Profili
0,182 kg/m



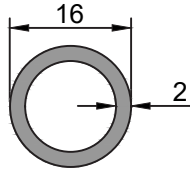
1804
Küpeşte Profili
0,128 kg/m



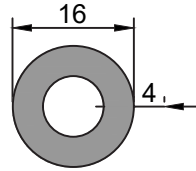
1606
Küpeşte Profili
0,151 kg/m



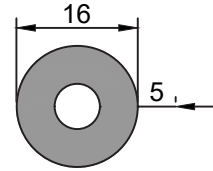
1063
Küpeşte Profili
0,185 kg/m



1011
Küpeşte Profili
0,238 kg/m

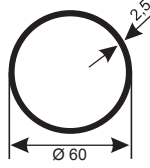


1308
Küpeşte Profili
0,409 kg/m



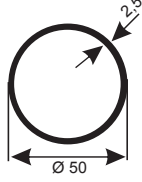
1172
Küpeşte Profili
0,468 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



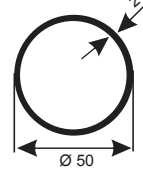
HA - 3001

Ø 60 Boru
Ø 60 Tube
1219 gr/mt



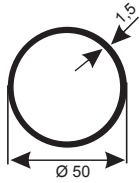
HA - 3002

Ø 50 Boru
Ø 50 Tube
1007 gr/mt



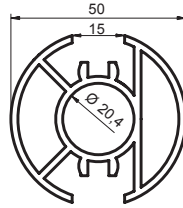
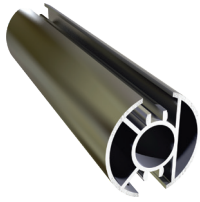
HA - 3002A

Ø 50 Boru
Ø 50 Tube
814 gr/mt



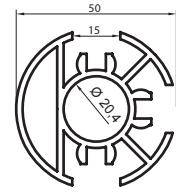
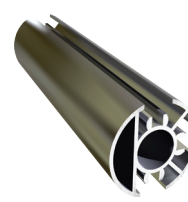
HA - 3002B

Ø 50 Boru
Ø 50 Tube
619 gr/mt



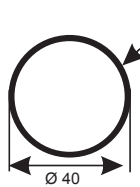
HA - 3002C

Ø 50 Dikme 2 Kanallı
Ø 50 Struts 2 Canals
1730 gr/mt



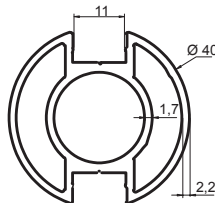
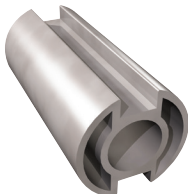
HA - 3002D

Ø 50 Dikme 3 Kanallı
Ø 50 Struts 3 Canals
1690 gr/mt



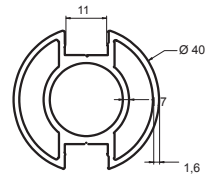
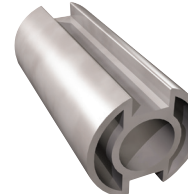
HA - 3003

Ø 40 Boru
Ø 40 Pipe
795 gr/mt



HA - 3004

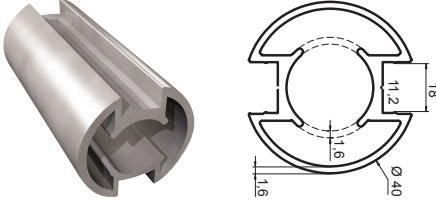
Ø 40 Dikme
Ø 40 Struts 2 Canals
1100 gr/mt



HA - 3004A

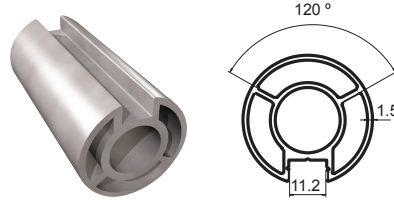
Ø 40 Dikme
Ø 40 Struts 2 Canals
918 gr/mt

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



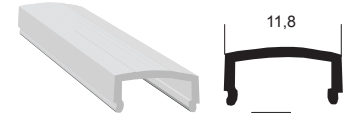
HA - 3004B

Ø 40 Boş Dikme
Ø 40 Hollow Struts 2
Canals
785 gr/mt



HA - 3004C

Ø 40 Dikme Tek Kanallı
Ø 40 Struts Single Canal
877 gr/mt



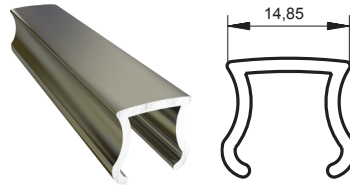
HA - 3005

Dikme Kanal Kapağı
Struts Canal Cover
60 gr/mt



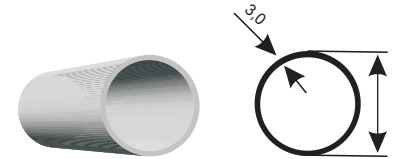
HA - 3005A

Ø 30 Dikme Kanal Kapağı
Ø 30 Struts Canal Cover
55 gr/mt



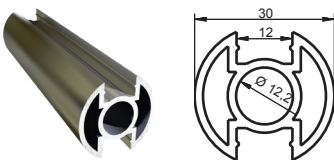
HA - 3005B

Ø 50 Dikme Kanal Kapağı
Ø 50 Struts Canal Cover
135 gr/mt



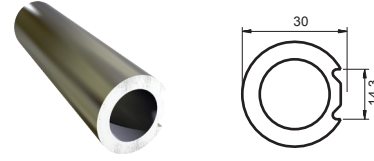
HA - 3006

Ø 30 Boru
Ø 30 Pipe
687 gr/mt



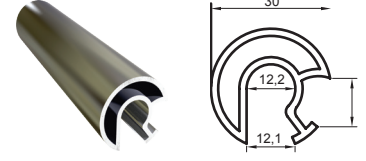
HA - 3006A

Ø 30 Dikme
Ø 30 Struts
2 Canals 680 gr/mt



HA - 3006B

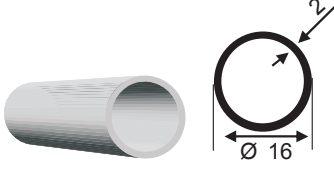
Ø 30 Dikme
Tek Kanallı
Ø 30 Struts Single Canal 975 gr/mt



HA - 3006C

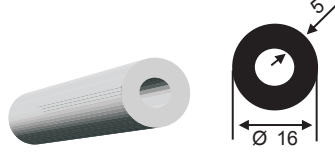
Ø 30 Dikme 90°
Ø 30 Struts 2 Canals
90°
620 gr/mt

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



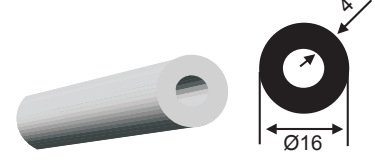
HA - 3007

Ø 16 Boru
Ø 16 Pipe
230 gr/mt



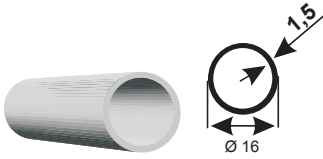
HA - 3007A

Ø 16 Boru
Ø 16 Pipe
470 gr/mt



HA - 3007B

Ø 16 Boru
Ø 16 Pipe
410 gr/mt



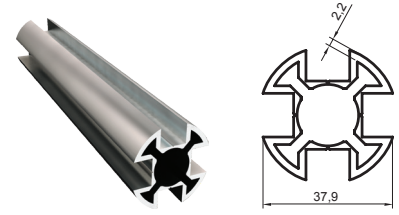
HA - 3007C

Ø 16 Boru
Ø 16 Pipe
182 gr/mt



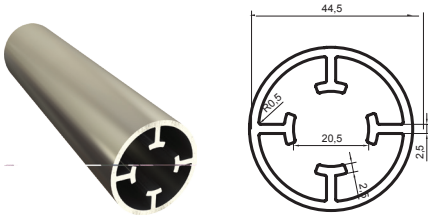
HA - 3001A

Ø 12 Kare Profil
Ø 12 Square Pipe
206 gr/mt
Özel İmalat



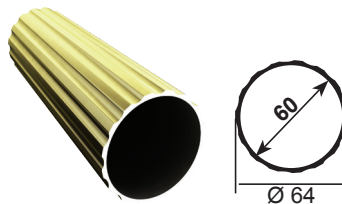
HA - 3004D

Ø 40 Dikme 4 Kanallı
Ø 40 Struts 4 Canals
999 gr/mt



HA - 3004E

Ø 40 Kanalsız Dikme
Ø 40 Struts No Canal
1301 gr/mt

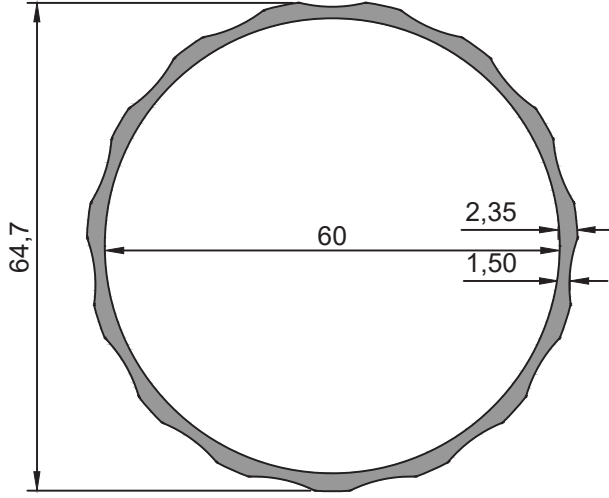


HA - 3036

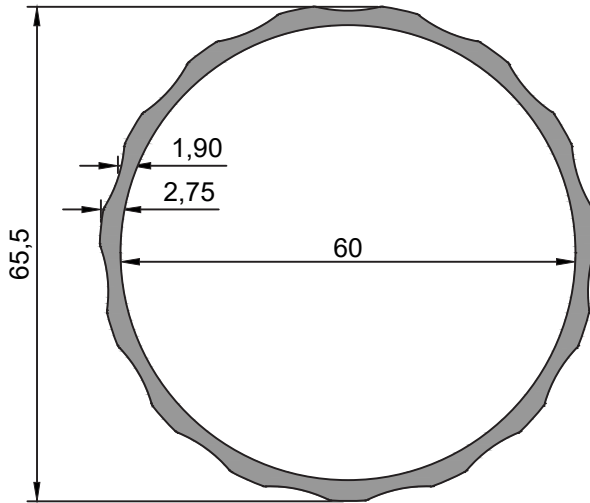
Ø 60 Büyük Dekorlu Tapa Dikmesi
Ø 60 Decorative Pipe
1500 gr/mt

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

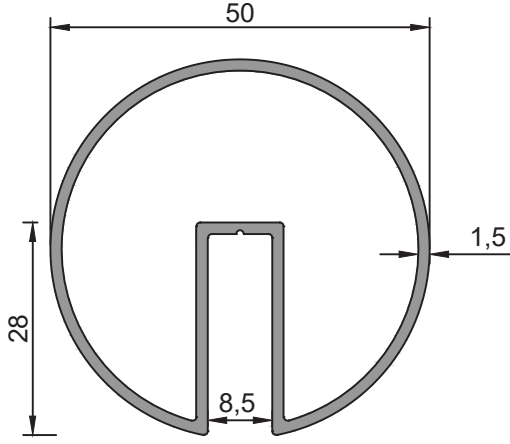


1605
Küpeşte Profili
1,043 kg/m

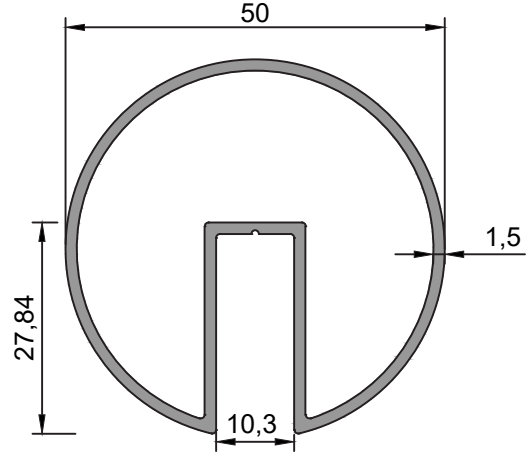


1317
Küpeşte Profili
1,266 kg/m

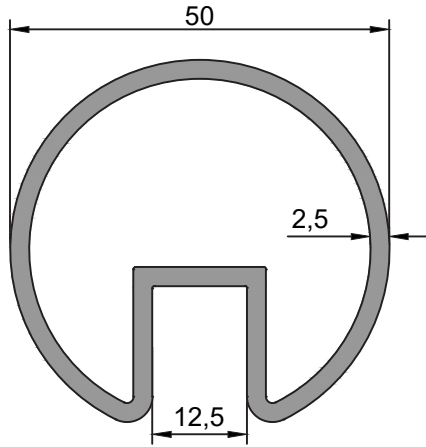
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



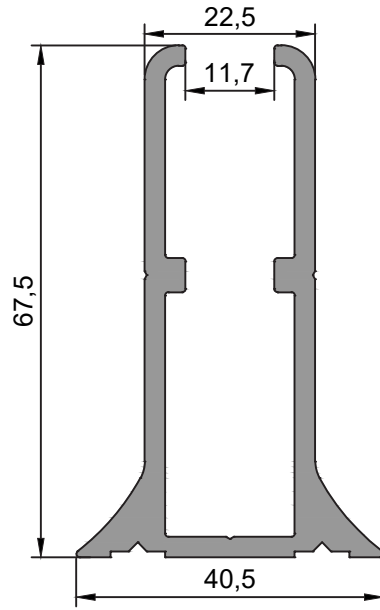
2055
Küpeşte Profili
0,834 kg/m



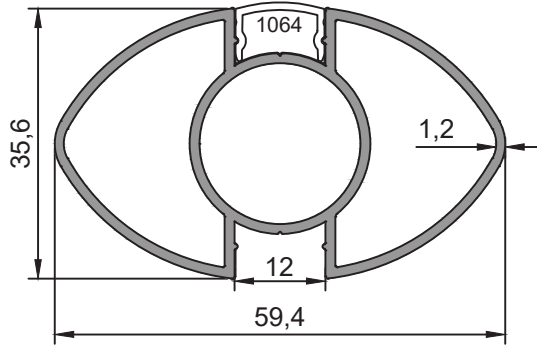
2054
Küpeşte Profili
0,832 kg/m



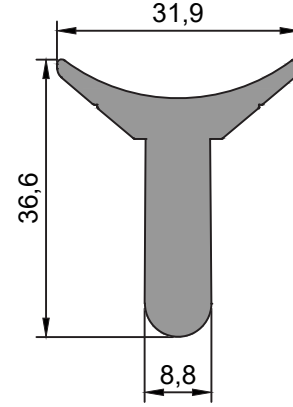
1986
Küpeşte Profili
1,238 kg/m



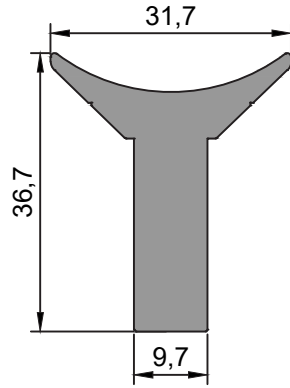
1985
Küpeşte Profili
1,414 kg/m



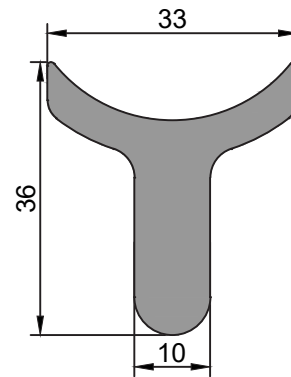
2070
Küpeşte Profili
0,770 kg/m



1005
Küpeşte Profili
0,973 kg/m



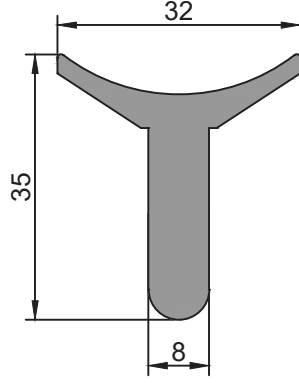
1162
Küpeşte Profili
1,092 kg/m



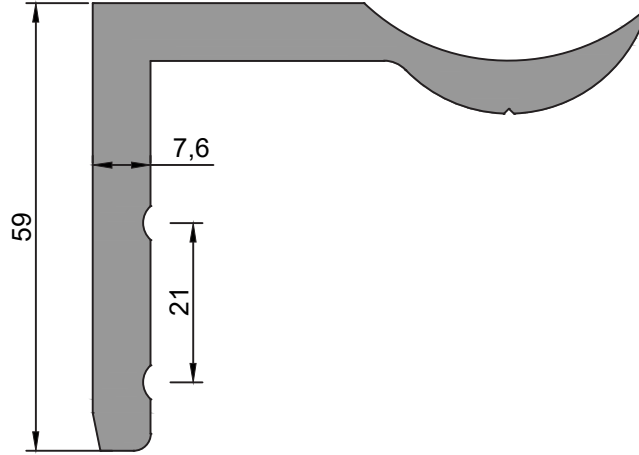
1244
Küpeşte Profili
1,116 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

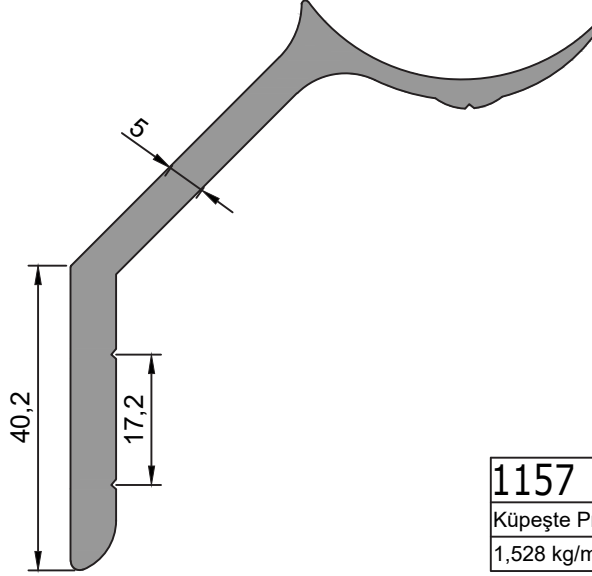


1819
Küpeşte Profili
0,854 kg/m

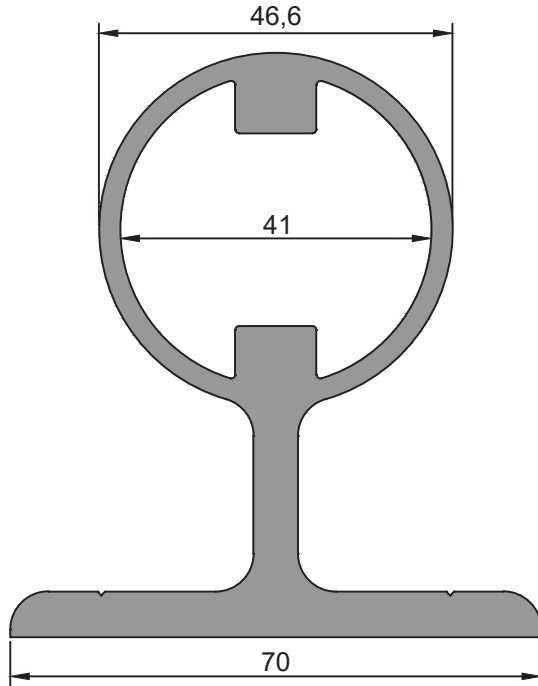


1027
Küpeşte Profili
2,365 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

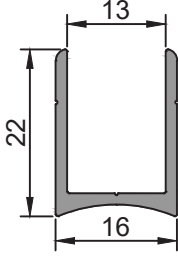


1157
Küpeşte Profili
1,528 kg/m

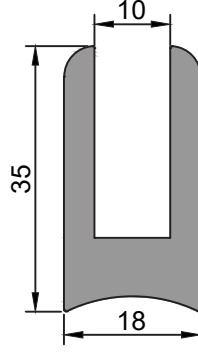


1286
Küpeşte Profili
3,027 kg/m

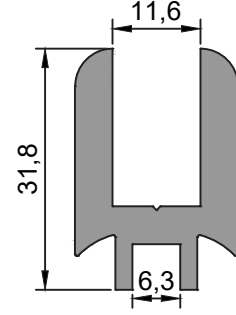
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



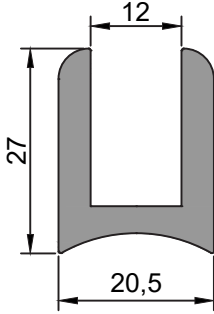
1275
Küpeşte Profili
0,240 kg/m



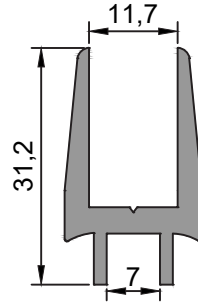
1646
Küpeşte Profili
0,942 kg/m



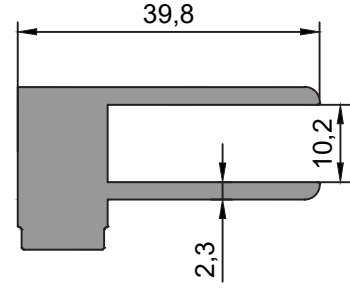
1007
Küpeşte Profili
0,892 kg/m



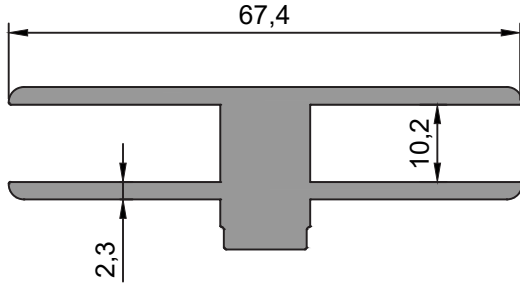
1045
Küpeşte Profili
0,709 kg/m



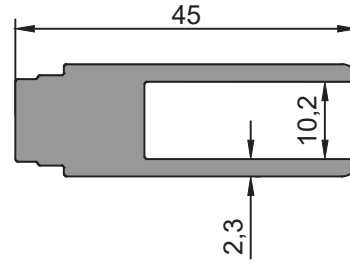
1820
Küpeşte Profili
0,511 kg/m



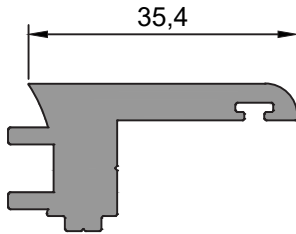
1023
Küpeşte Profili
1,023 kg/m



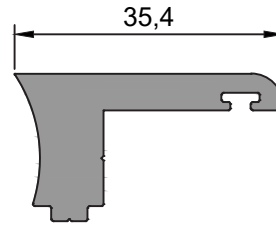
1024
Küpeşte Profili
1,367 kg/m



1177
Küpeşte Profili
0,968 kg/m

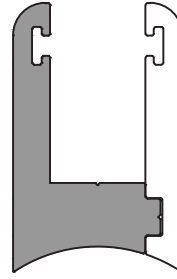
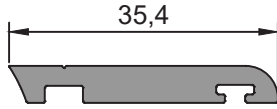


1070
Küpeşte Profili
0,803 kg/m

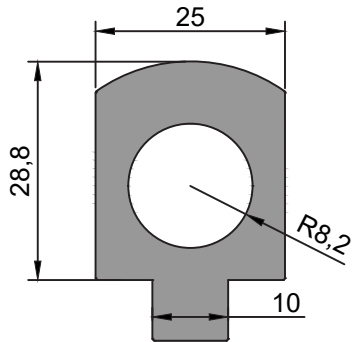


1072
Küpeşte Profili
0,737 kg/m

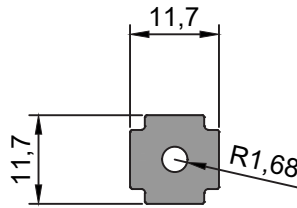
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



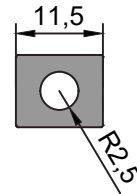
1071
Küpeşte Profili
0,383 kg/m



1003
Küpeşte Profili
1,508 kg/m

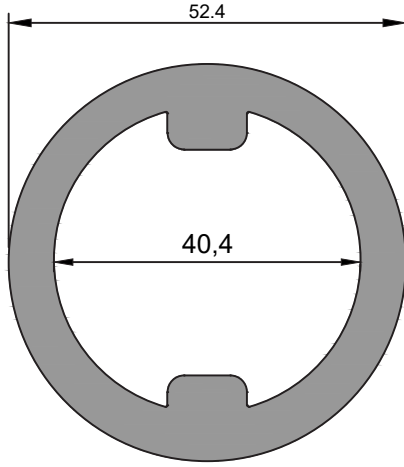


1615
Küpeşte Profili
0,306 kg/m

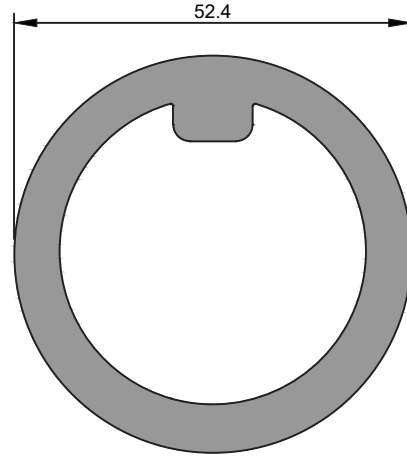


1163
Küpeşte Profili
0,243 kg/m

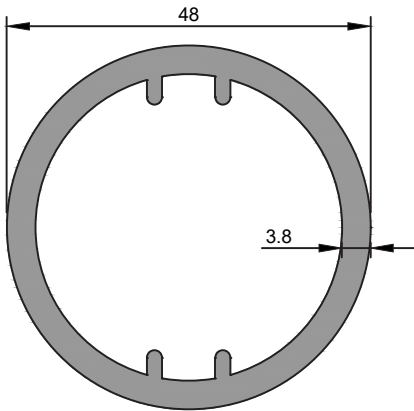
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



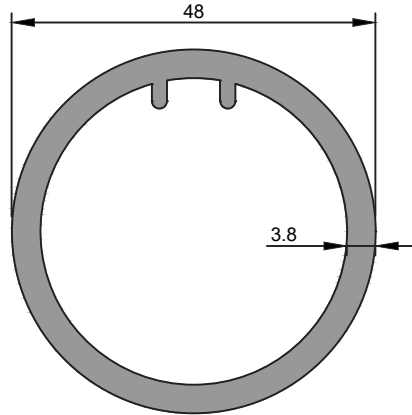
1013
Küpeşte Profili
2,649 kg/m



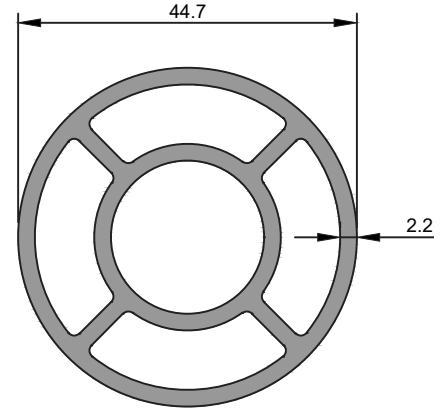
1028
Küpeşte Profili
2,524 kg/m



1818
Küpeşte Profili
1,502 kg/m



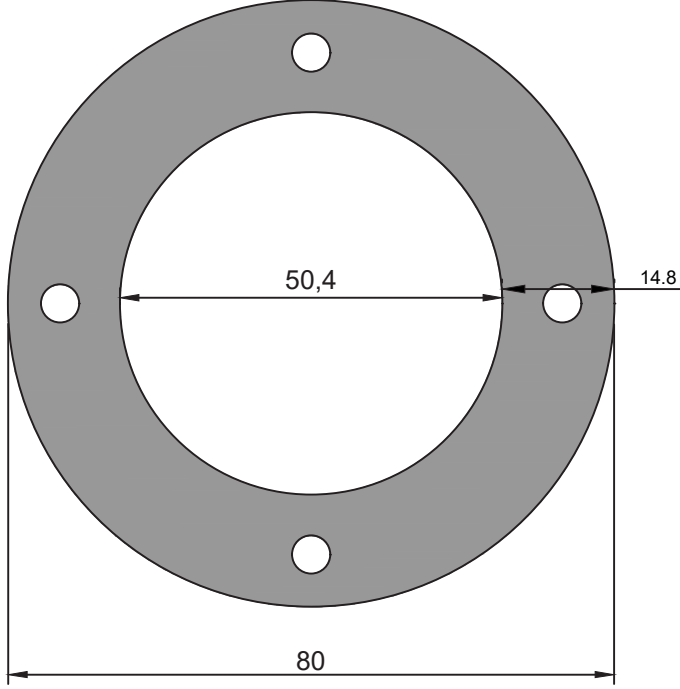
1930
Küpeşte Profili
1,465 kg/m



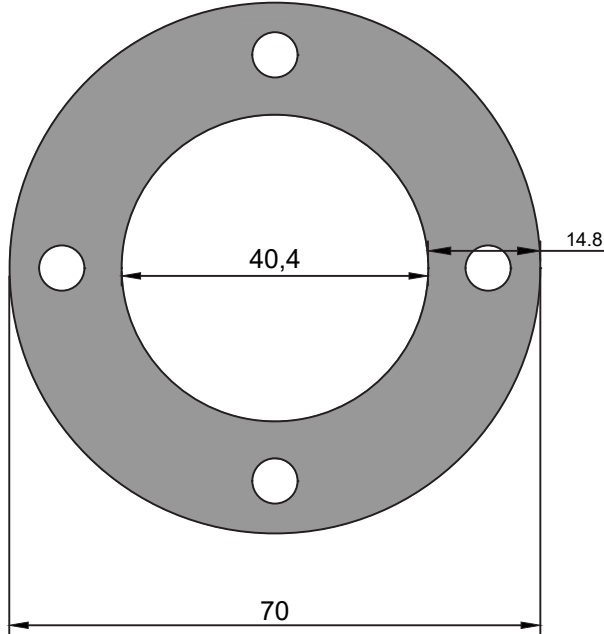
1174
Küpeşte Profili
1,412 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

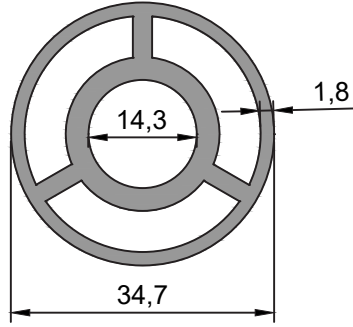
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



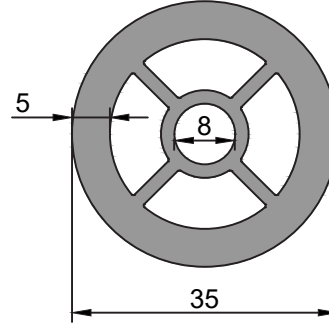
1000
Küpeşte Profili
8,003 kg/m



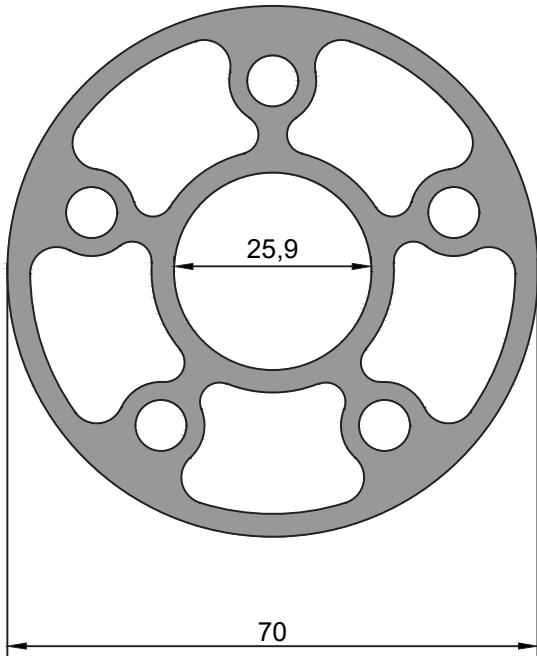
1001
Küpeşte Profili
6,648 kg/m



1647
Küpeşte Profili
1,055 kg/m



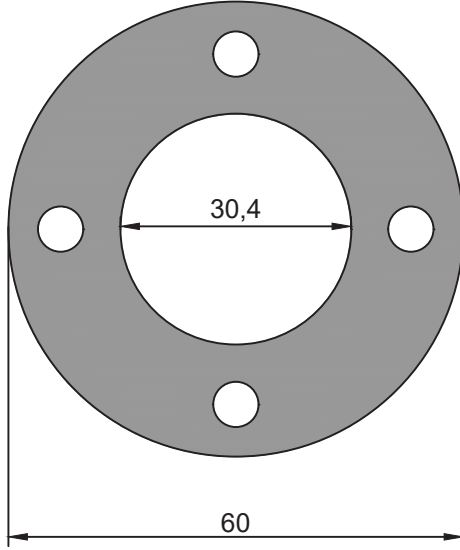
1077
Küpeşte Profili
1,587 kg/m



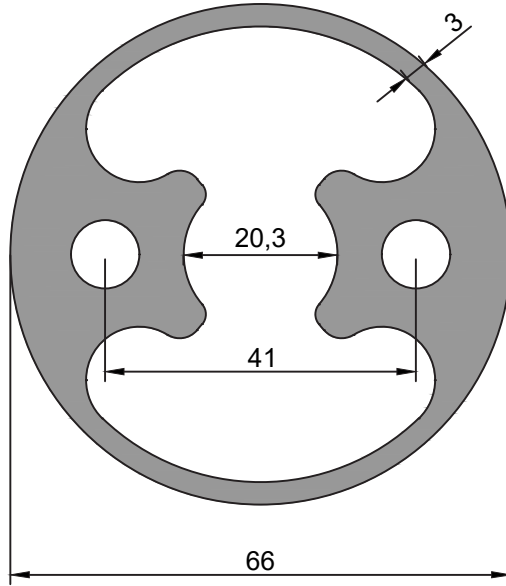
1379
Küpeşte Profili
4,039 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

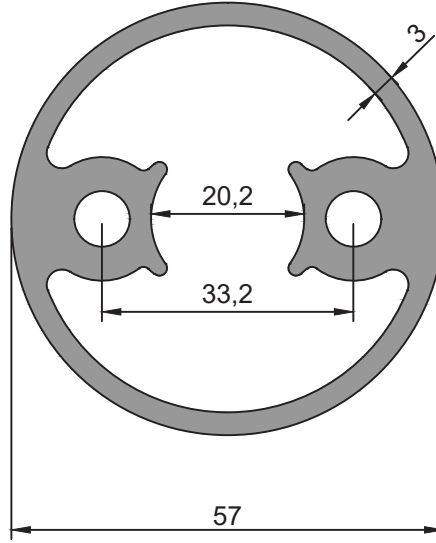


1073
Küpeşte Profili
5,389 kg/m



1917
Küpeşte Profili
3,910 kg/m

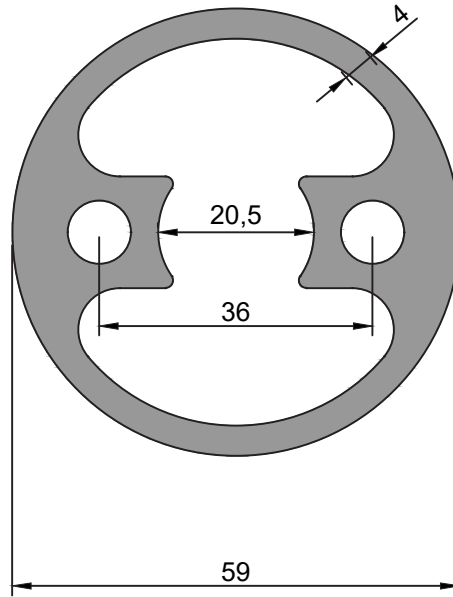
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



1817

Küpeşte Profili

2,430 kg/m

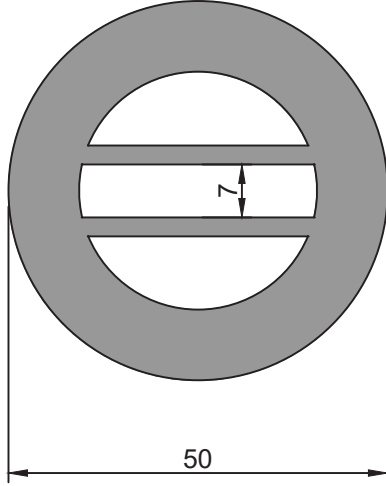


1009

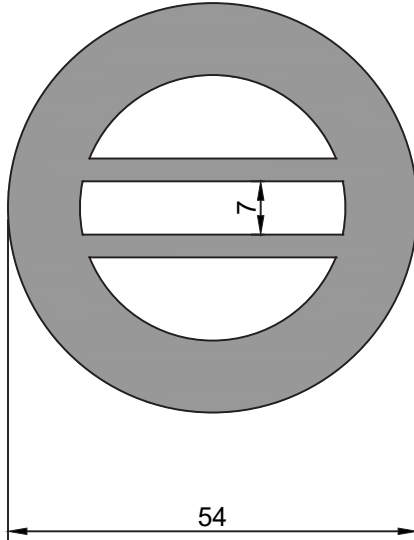
Küpeşte Profili

3,070 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

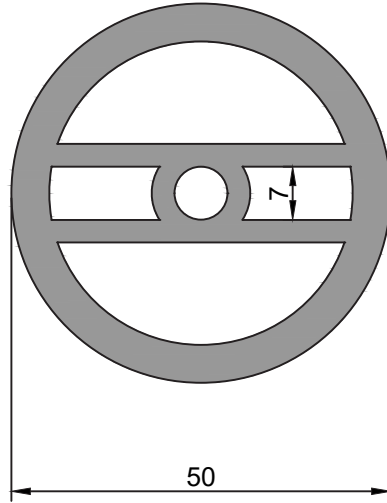


1075
Küpeşte Profili
3,628 kg/m

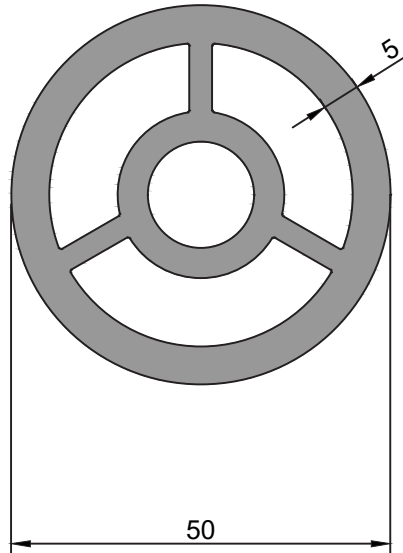


1098
Küpeşte Profili
4,144 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

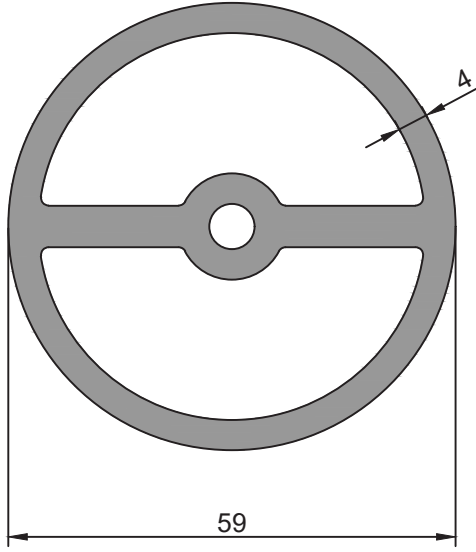


1219
Küpeşte Profili
2,675 kg/m

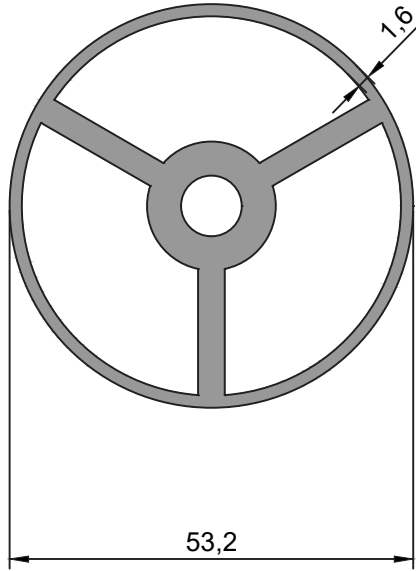


1178
Küpeşte Profili
2,750 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

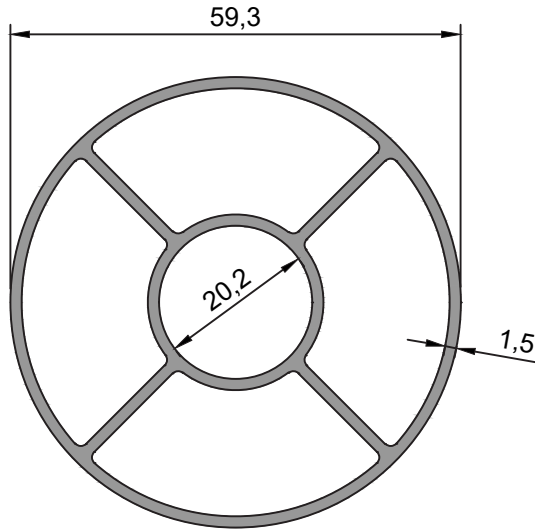


1008
Küpeşte Profili
2,773 kg/m

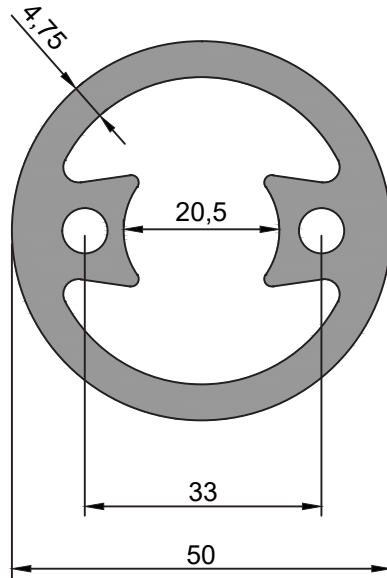


1374
Küpeşte Profili
1,653 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

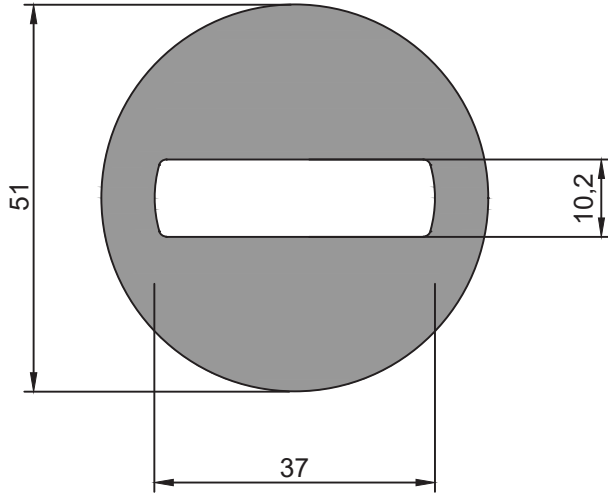


1319
Küpeşte Profili
1,295 kg/m

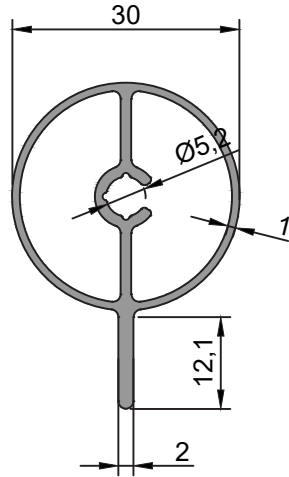


1164
Küpeşte Profili
2,460 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

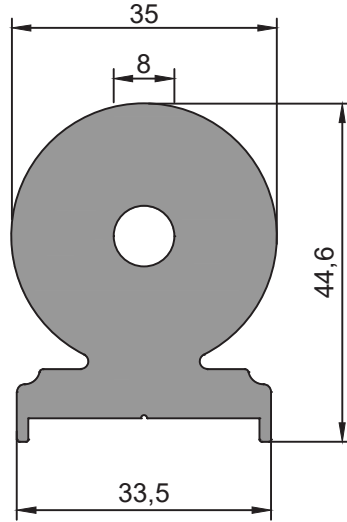


1183
Küpeşte Profili
4,530 kg/m

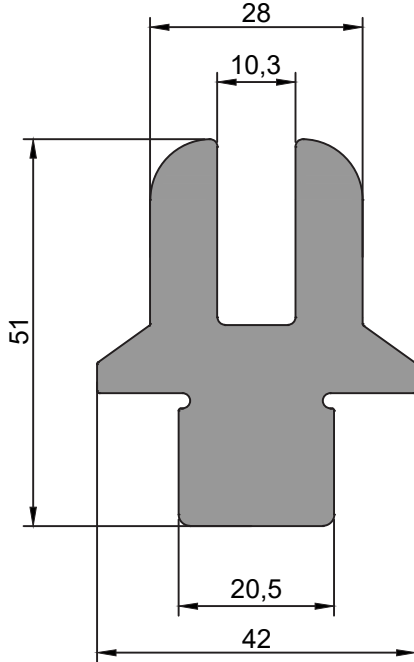


2060
Küpeşte Profili
0,463 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

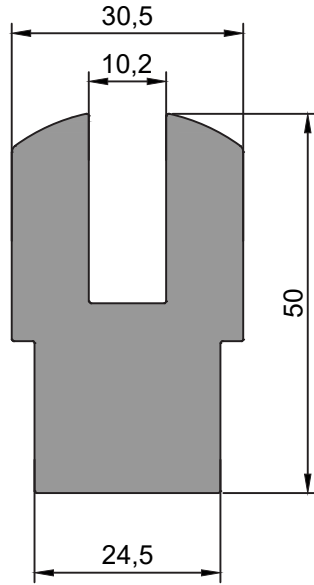


2030
Küpeşte Profili
3,078 kg/m

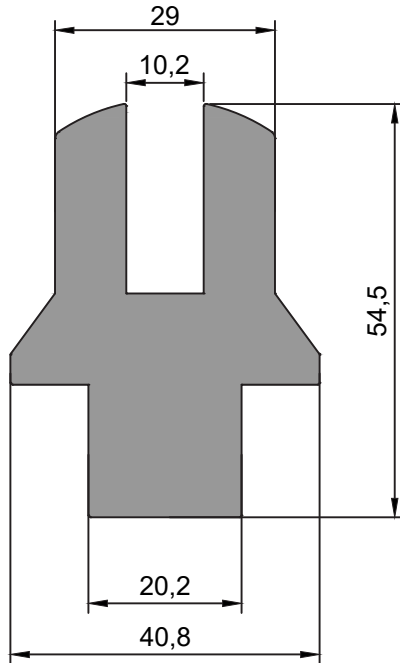


1002
Küpeşte Profili
2,986 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

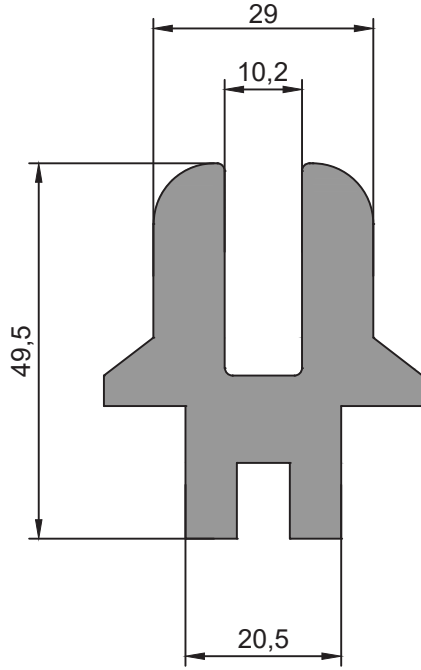


1160
Küpeşte Profili
3,018 kg/m

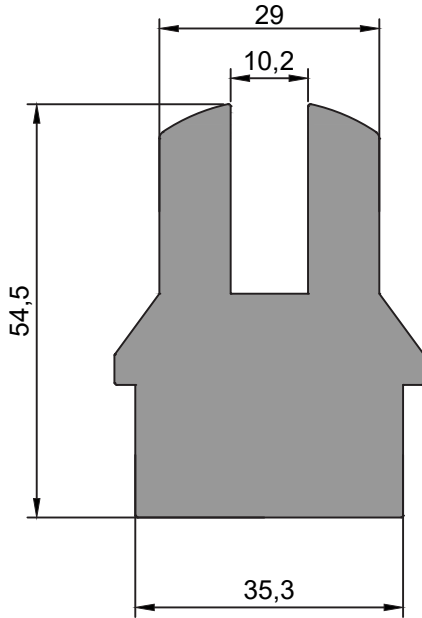


1161
Küpeşte Profili
3,349 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

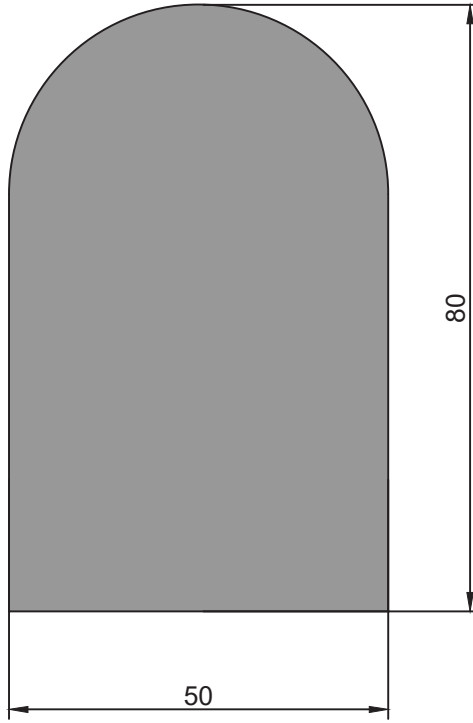


1260
Küpeşte Profili
2,678 kg/m



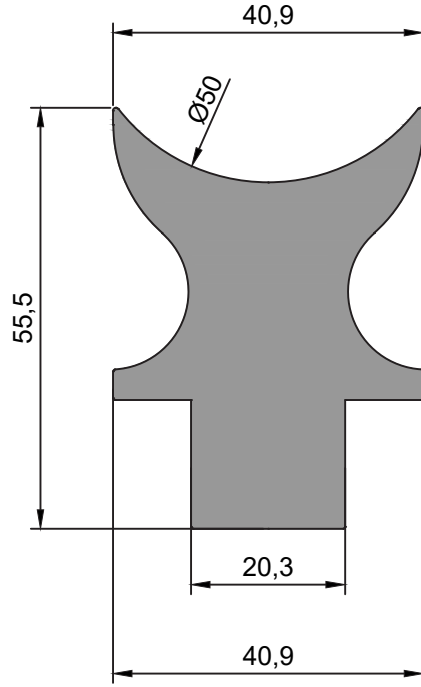
1190
Küpeşte Profili
4,065 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



1065
Küpeşte Profili
10,11 kg/m

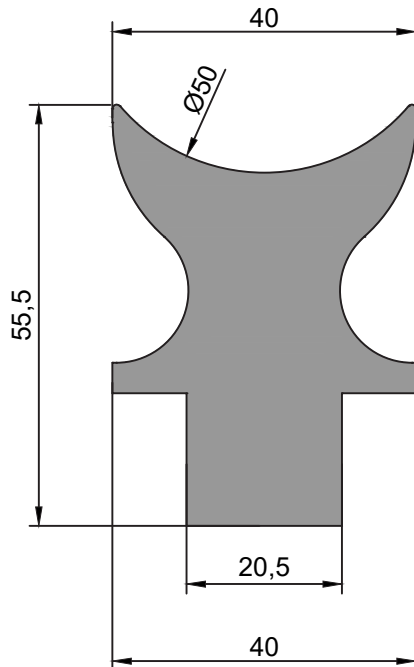
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



1189

Küpeşte Profili

3,506 kg/m

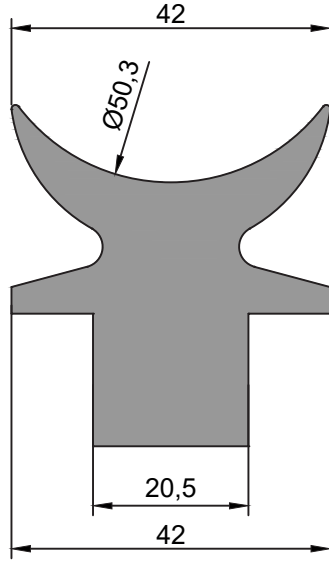


1025

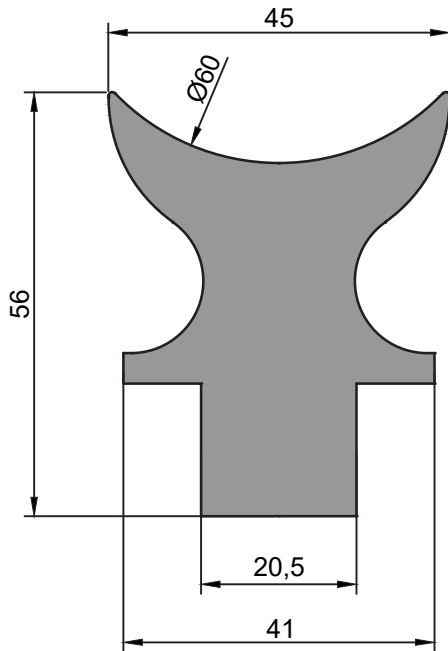
Küpeşte Profili

3,516 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

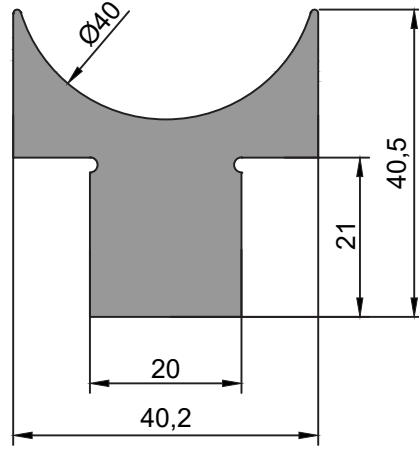


1026
Küpeşte Profili
2,636 kg/m

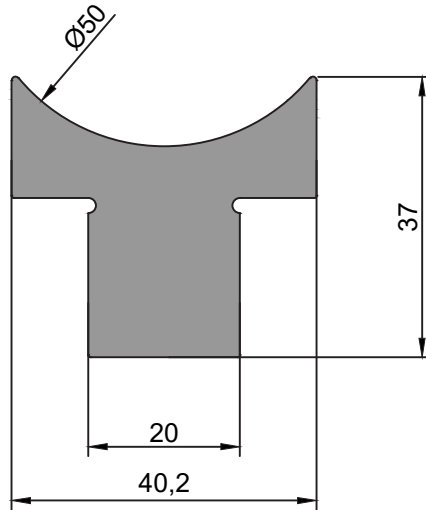


1732
Küpeşte Profili
3,609 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



1038
Küpeşte Profili
2,140 kg/m



1039
Küpeşte Profili
2,201 kg/m



HİLAL
Alüminyum

PROFİL KATALOĞU

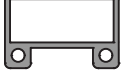
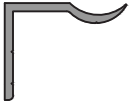
KARE KÜPEŞTE PROFİLLERİ

SQUARE PROFILES

★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

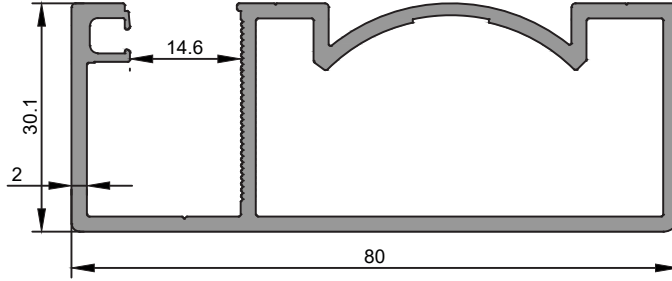
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	2877	80'lik Üst Profil	1,300 kg/m	...	...	
	2808	60'lık Üst Profil	0,856 kg/m	...	...	
	2878	Alt Profil	0,485 kg/m	...	...	
	2879	40'lık Dikme Profili	1,165 kg/m	...	...	
	2893	Dikme Kapak	0,055 kg/m	...	...	
	2880	Alt Profil Kapak	0,058 kg/m	...	...	
	3531	14'lük Emniyet Çubuğu	0,260 kg/m	...	...	
	4040	Küpeşte Profili	0,921 kg/m	...	...	
	4041	Küpeşte Profili	1,951 kg/m	...	...	
	4042	Küpeşte Profili	2,196 kg/m	...	...	
	4043	Küpeşte Profili	1,680 kg/m	...	...	
	4044	Küpeşte Profili	0,058 kg/m	...	...	
	4045	Küpeşte Profili	0,586 kg/m	...	...	
	4046	Küpeşte Profili	4,427 kg/m	...	...	

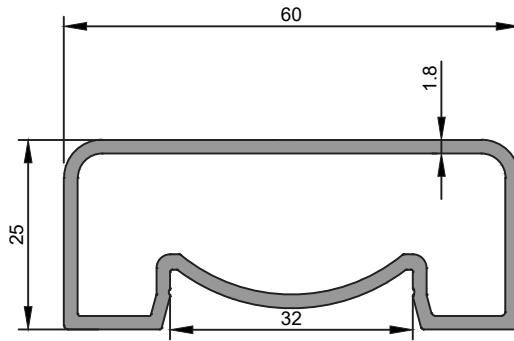
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				$J_x \text{ (cm}^4\text{)}$	$J_y \text{ (cm}^4\text{)}$	
	4361	Küpeşte Profili	0,077 kg/m	...	...	
	4362	Küpeşte Profili	0,363 kg/m	...	...	
	4363	Küpeşte Profili	0,087 kg/m	...	...	
	4364	Küpeşte Profili	0,114 kg/m	...	...	
	4365	Küpeşte Profili	0,179 kg/m	...	...	
	4366	Küpeşte Profili	0,683 kg/m	...	...	
	4367	Küpeşte Profili	0,081 kg/m	...	...	
	4368	Küpeşte Profili	0,824 kg/m	...	...	
	4369	Küpeşte Profili	0,076 kg/m	...	...	
	4370	Küpeşte Profili	0,704 kg/m	...	...	
	4371	Küpeşte Profili	0,718 kg/m	...	...	
				...	...	
				...	...	
				...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

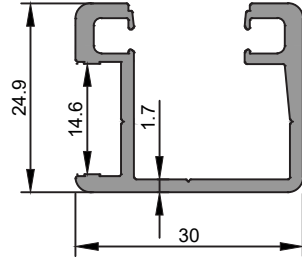


2877
80'lık Üst Profil
1,300 kg/m

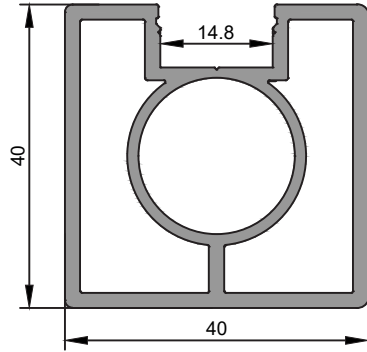


2808
60'lık Üst Profil
0,856 kg/m

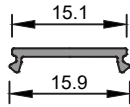
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



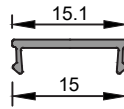
2878
Alt Profil
0,485 kg/m



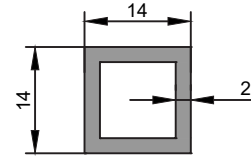
2879
40'lık Dikme Profili
1,165 kg/m



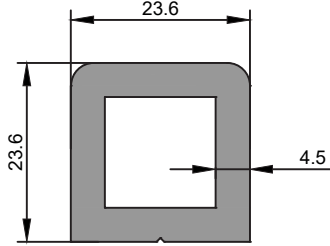
2893
Dikme Kapak
0,055 kg/m



2880
Alt Profil Kapak
0,058 kg/m



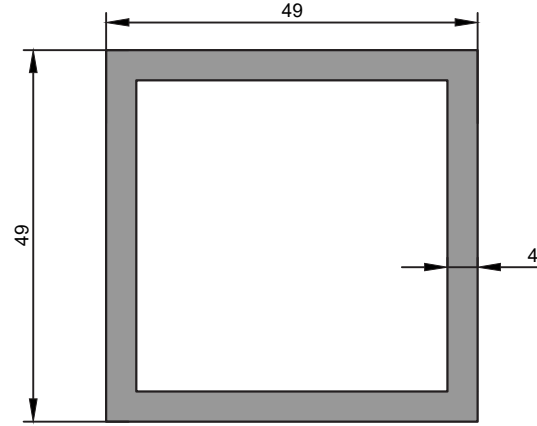
3531
14'lük Emniyet Çubuğu
0,260 kg/m



4040

Küpeşte Profil

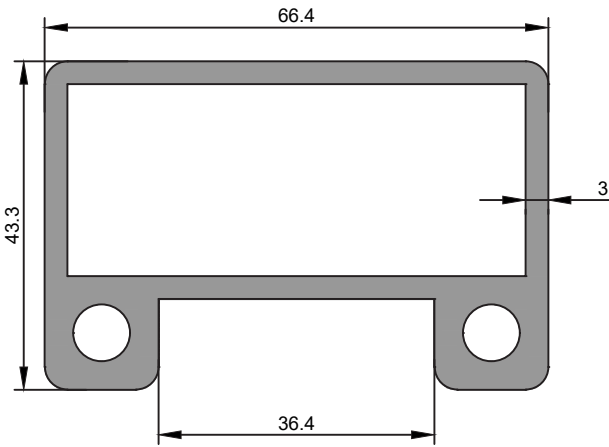
0,921 kg/m



4041

Küpeşte Profil

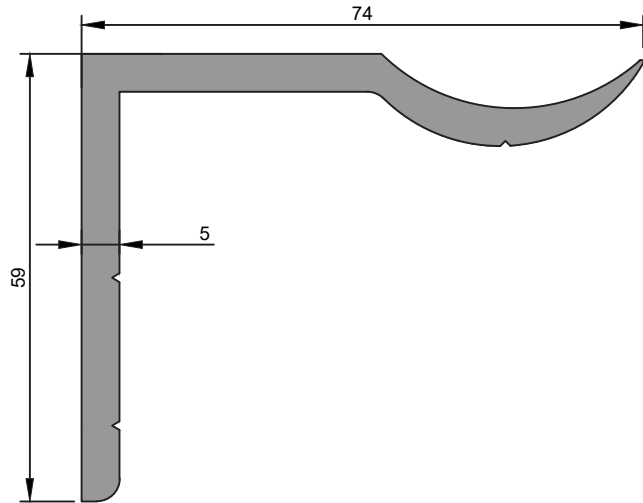
1,951 kg/m



4042

Küpeşte Profil

2,196 kg/m

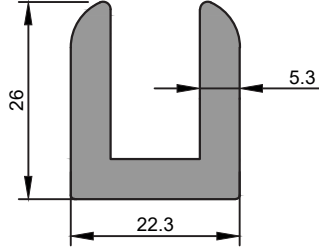


4043

Küpeşte Profil

1,680 kg/m

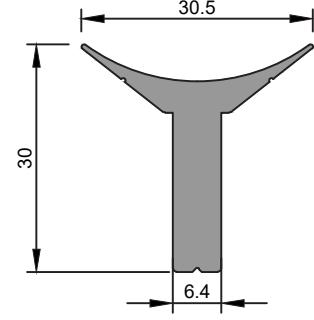
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



4044

Alt Profil Kapak

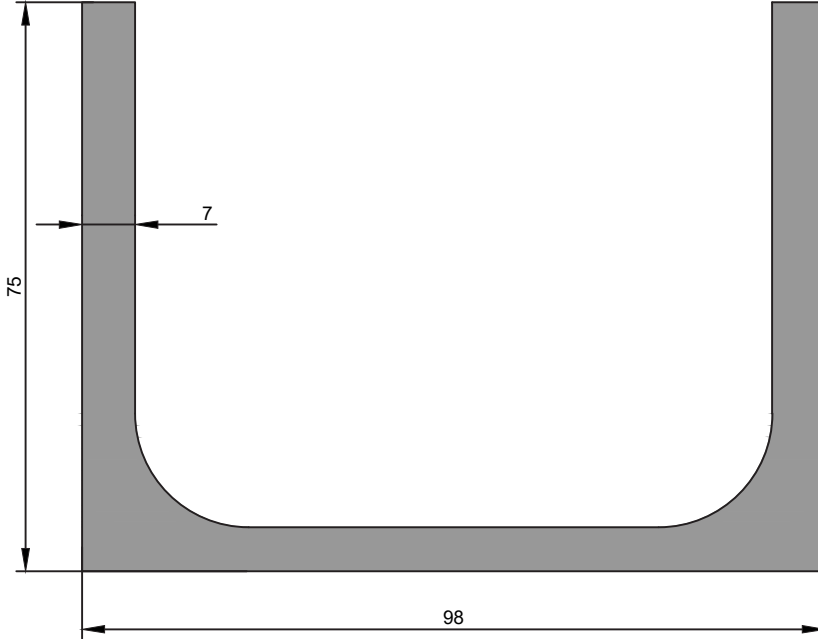
0,058 kg/m



4045

Küpeşte Profil

0,586 kg/m



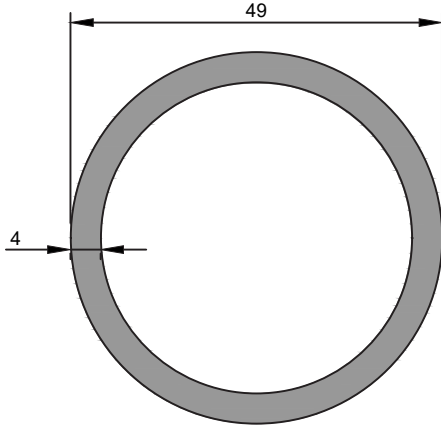
4046

Küpeşte Profil

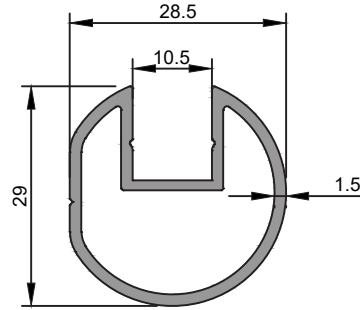
4,427 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

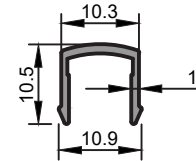
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



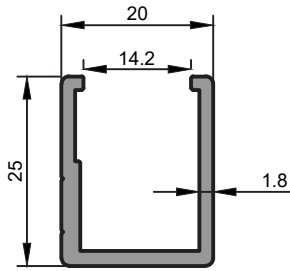
4047
Küpeşte Profil
1,533 kg/m



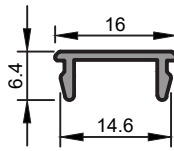
4360
Küpeşte Profil
0,450 kg/m



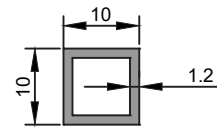
4361
Küpeşte Profil
0,077 kg/m



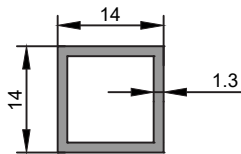
4362
Küpeşte Profil
0,363 kg/m



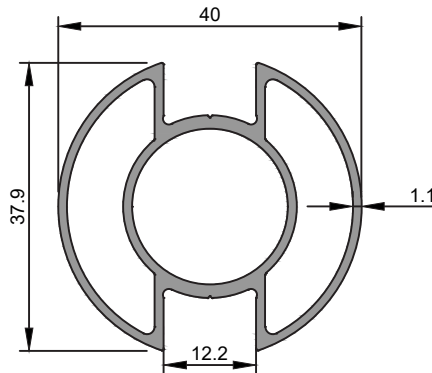
4363
Küpeşte Profil
0,087 kg/m



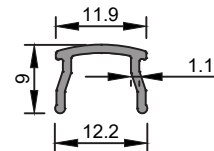
4364
Küpeşte Profil
0,114 kg/m



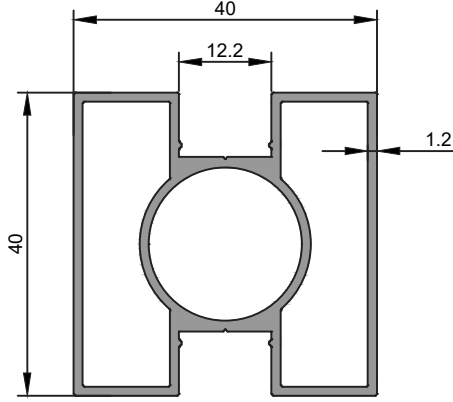
4365
Küpeşte Profil
0,179 kg/m



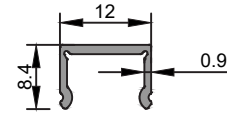
4366
Küpeşte Profil
0,683 kg/m



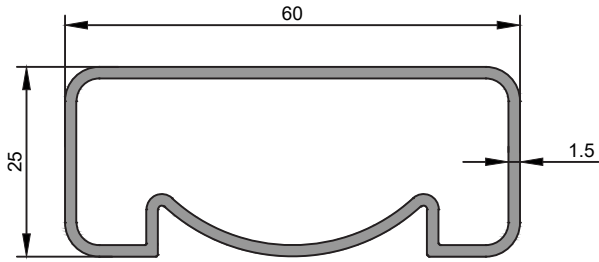
4367
Küpeşte Profil
0,081 kg/m



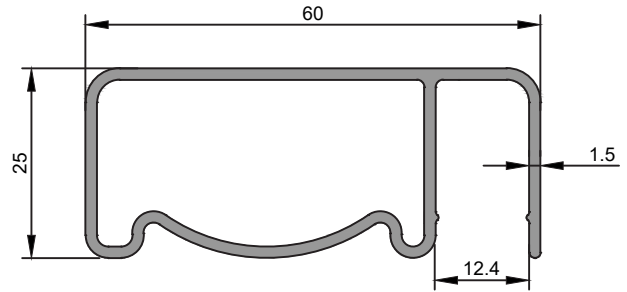
4368
Küpeşte Profil
0,824 kg/m



4369
Küpeşte Profil
0,076 kg/m



4370
Küpeşte Profil
0,704 kg/m



4371
Küpeşte Profil
0,718 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



HİLAL
Alüminyum

PROFİL KATALOĞU

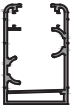
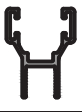
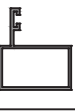
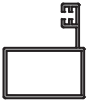
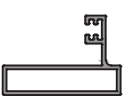
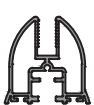
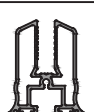
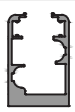
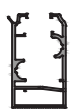
CAM KÜPEŞTE PROFİLLERİ

GLASS HANDRAILS PROFILES

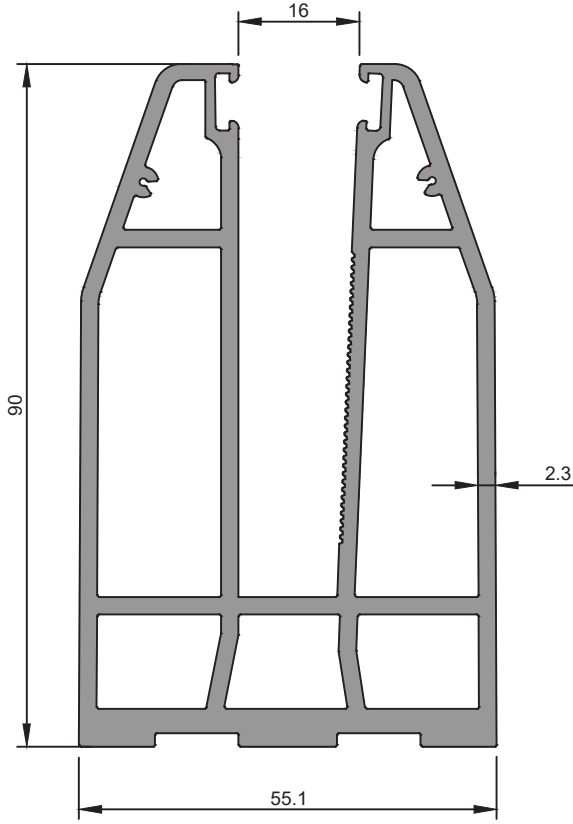
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

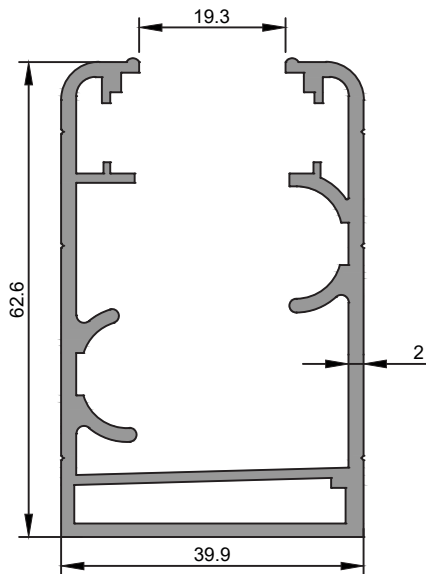
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	3973	Küpeşte Profili	3,261 kg/m	...	...	
	3097	Küpeşte Profili	1,302 kg/m	...	...	
	2572	Küpeşte Profili	0,135 kg/m	...	...	
	2573	Küpeşte Profili	0,214 kg/m	...	...	
	3095	Küpeşte Profili	0,423 kg/m	...	...	
	3096	Küpeşte Profili	0,877 kg/m	...	...	
	2769	Küpeşte Profili	0,442 kg/m	...	...	
	2575	Küpeşte Profili	0,460 kg/m	...	...	
	2576	Küpeşte Profili	0,921 kg/m	...	...	
	2771	Küpeşte Profili	0,805 kg/m	...	...	
	2574	Küpeşte Profili	1,490 kg/m	...	...	
	2770	Küpeşte Profili	1,507 kg/m			

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

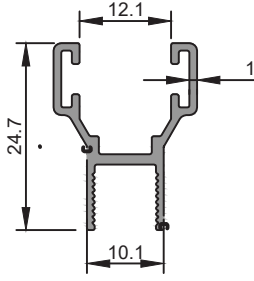


3973
Küpeşte Profil
3,261 kg/m

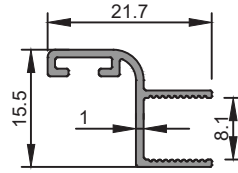


3097
Küpeşte Profil
1,302 kg/m

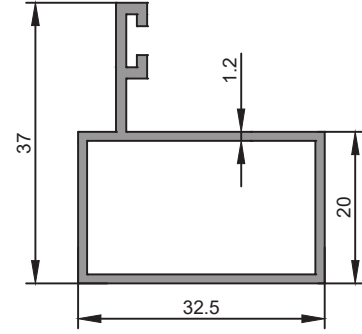
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



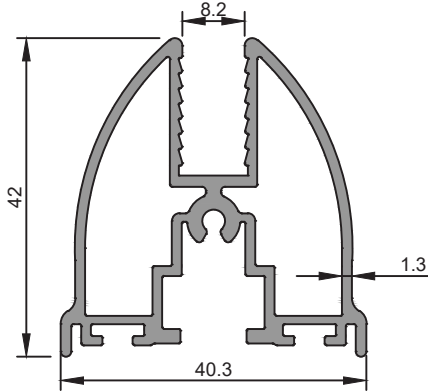
2573
Küpeşte Profil
0,214 kg/m



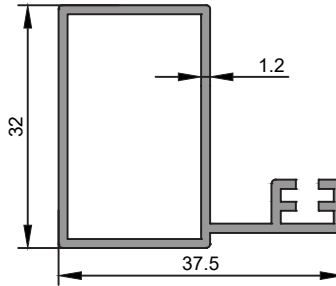
2572
Küpeşte Profil
0,135 kg/m



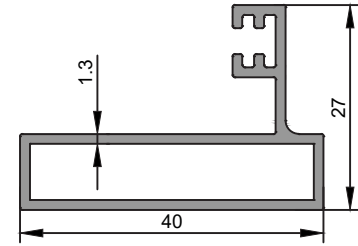
3095
Küpeşte Profil
0,423 kg/m



3096
Küpeşte Profil
0,877 kg/m

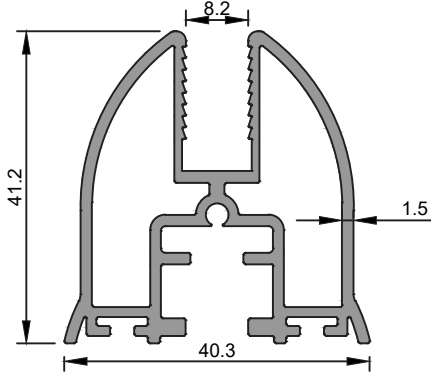


2769
Küpeşte Profil
0,442 kg/m



2575
Küpeşte Profil
0,460 kg/m

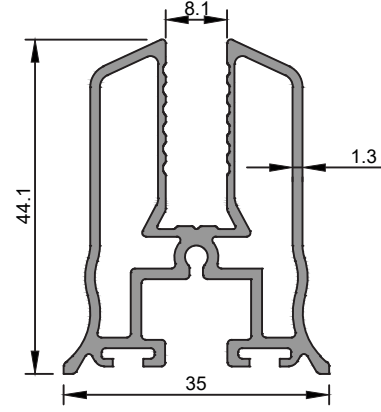
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



2576

Küpeşte Profil

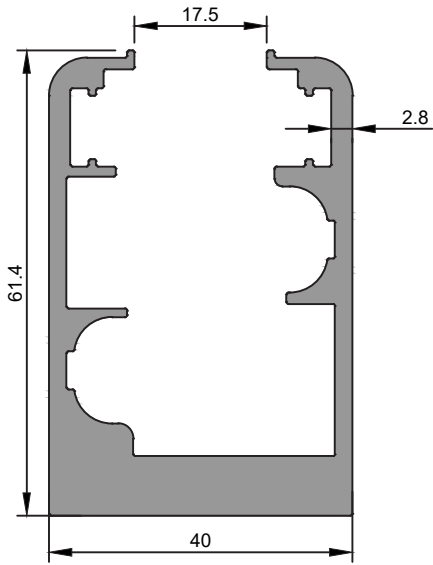
0,921 kg/m



2771

Küpeşte Profil

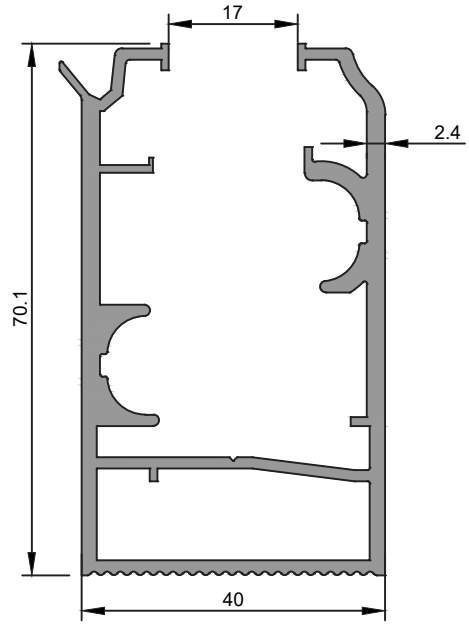
0,805 kg/m



2574

Küpeşte Profil

1,490 kg/m



2770

Küpeşte Profil

1,507 kg/m



HİLAL
Alüminyum

PROFİL KATALOĞU

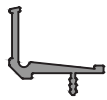
MOBİLYA PROFİLLERİ

FURNITURE PROFILES

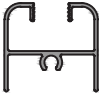
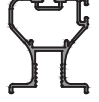
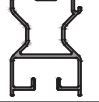
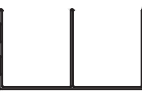
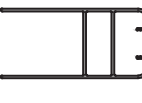
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

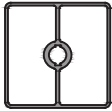
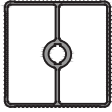
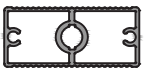
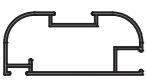
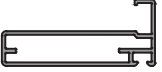
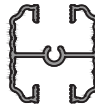
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1960	...	0,261 kg/m	...	...	
	1961	...	0,396 kg/m	...	...	
	1962	...	0,242 kg/m	...	...	
	1116	...	0,244 kg/m	...	...	
	1631	...	0,589 kg/m	...	...	
	1996	...	0,265 kg/m	...	...	
	2007	...	0,262 kg/m	...	...	
	1975	...	0,487 kg/m	...	...	
	2024	...	0,474 kg/m	...	...	
	1664	...	0,260 kg/m	...	...	
	1596	...	0,347 kg/m	...	...	
	1641	...	0,331 kg/m	...	...	
	1965	...	0,362 kg/m	...	...	
	1598	...	0,305 kg/m	...	...	

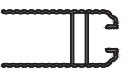
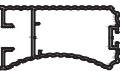
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1956	...	0,356 kg/m	...	...	
	2045	...	0,221 kg/m	...	...	
	2046	...	0,276 kg/m	...	...	
	2050	...	0,358 kg/m	...	...	
	2048	...	0,442 kg/m	...	...	
	1665	...	0,495 kg/m	...	...	
	1813	...	0,466 kg/m	...	...	
	1581	...	0,392 kg/m	...	...	
	1148	...	0,389 kg/m	...	...	
	1180	...	0,283 kg/m	...	...	
	2049	...	0,222 kg/m	...	...	
	2045	...	0,519 kg/m	...	...	
	2047	...	0,385 kg/m	...	...	
	1249	...	0,733 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1245	...	0,695 kg/m	...	...	
	1179	...	0,661 kg/m	...	...	
	1242	...	0,571 kg/m	...	...	
	1309	...	0,326 kg/m	...	...	
	1385	...	0,326 kg/m	...	...	
	1498	...	0,322 kg/m	...	...	
	1181	...	0,391 kg/m	...	...	
	1182	...	0,485 kg/m	...	...	
	1186	...	0,64 kg/m	...	...	
	1467	...	0,495 kg/m	...	...	
	1698	...	0,459 kg/m	...	...	
	1548	...	0,256 kg/m	...	...	
	1549	...	0,320 kg/m	...	...	
	1669	...	0,292 kg/m	...	...	

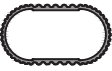
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				$J_x \text{ (cm}^4\text{)}$	$J_y \text{ (cm}^4\text{)}$	
	1670	...	0,340 kg/m	...	...	
	1276	...	0,346 kg/m	...	...	
	1278	...	0,497 kg/m	...	...	
	1668	...	0,528 kg/m	...	...	
	1550	...	0,425 kg/m	...	...	
	1551	...	0,508 kg/m	...	...	
	1620	...	0,209 kg/m	...	...	
	1663	...	0,60 kg/m	...	...	
	1666	...	0,434 kg/m	...	...	
	1546	...	0,445 kg/m	...	...	
	1547	...	0,236 kg/m	...	...	
	1279	...	0,603 kg/m	...	...	
	1277	...	0,228 kg/m	...	...	
	1671	...	0,376 kg/m	...	...	

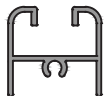
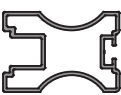
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1392	...	0,263 kg/m	...	...	
	1393	...	0,276 kg/m	...	...	
	1360	...	0,146 kg/m	...	...	
	2035	...	0,379 kg/m	...	...	
	1661	...	0,239 kg/m	...	...	
	1662	...	0,167 kg/m	...	...	
	2033	...	0,156 kg/m	...	...	
	1816	...	0,135 kg/m	...	...	
	1963	...	0,147 kg/m	...	...	
	1964	...	0,224 kg/m	...	...	
	2043	...	0,299 kg/m	...	...	
	1141	...	0,208 kg/m	...	...	
	1815	...	0,167 kg/m	...	...	
	2031	...	0,309 kg/m	...	...	

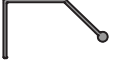
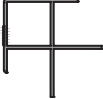
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1824	...	0,219 kg/m	...	...	
	1968	...	0,101 kg/m	...	...	
	1974	...	0,79 kg/m	...	...	
	2085	...	0,92 kg/m	...	...	
	1766	...	0,69 kg/m	...	...	
	1049	...	0,63 kg/m	...	...	
	1376	...	0,234 kg/m	...	...	
	1377	...	0,218 kg/m	...	...	
	1957	...	0,197 kg/m	...	...	
	1449	...	0,190 kg/m	...	...	
	1291	...	0,311 kg/m	...	...	
	1814	...	0356 kg/m	...	...	
	2034	...	0,163 kg/m	...	...	
	1966	...	0,215 kg/m	...	...	

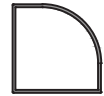
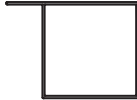
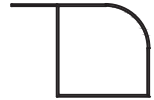
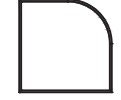
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

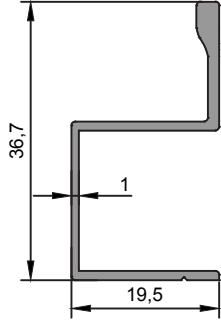
PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1967	...	0,192 kg/m	...	...	
	1667	...	0,312 kg/m	...	...	
	1715	...	0,106 kg/m	...	...	
	1954	...	0,288 kg/m	...	...	
	1689	...	0,222 kg/m	...	...	
	1716	...	0,170 kg/m	...	...	
	1859	...	0,282 kg/m	...	...	
	1608	...	0,538 kg/m	...	...	
	1684	...	0,822 kg/m	...	...	
	2032	...	0,530 kg/m	...	...	
	1741	...	0,294 kg/m	...	...	
	1742	...	0,360 kg/m	...	...	
	1530	...	0,549 kg/m	...	...	
	1638	...	0,676 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1736	...	0,488 kg/m	...	...	
	1688	...	0,187 kg/m	...	...	
	1708	...	0,119 kg/m	...	...	
	1710	...	0,112 kg/m	...	...	
	1814	...	0,491 kg/m	...	...	
	1712	...	0,141 kg/m	...	...	
	1709	...	0,68 kg/m	...	...	
	1711	...	0,71 kg/m	...	...	
	1714	...	0,346 kg/m	...	...	
	1460	...	0,279 kg/m	...	...	
	1428	...	0,249 kg/m	...	...	
	1687	...	0,479 kg/m	...	...	
	1293	...	0,683 kg/m	...	...	
	1597	...	0,396 kg/m	...	...	

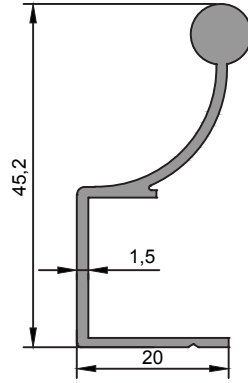
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				$J_x \text{ (cm}^4\text{)}$	$J_y \text{ (cm}^4\text{)}$	
	1743	...	0,506 kg/m	...	...	
	1713	...	0,259 kg/m	...	...	
	1898	...	0,291 kg/m	...	...	
	1899	...	0,463 kg/m	...	...	
	1900	...	0,434 kg/m	...	...	
	1901	...	0,394 kg/m	...	...	
	1306	...	0,351 kg/m	...	...	
	1307	...	0,310 kg/m	...	...	
	1727	...	0,312 kg/m	...	...	
	1427	...	0,430 kg/m	...	...	



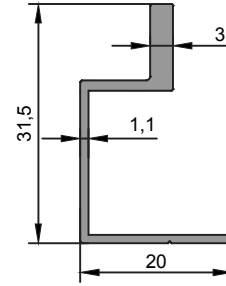
1960

0,261 kg/m



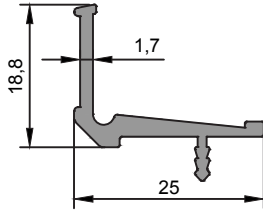
1961

0,396 kg/m



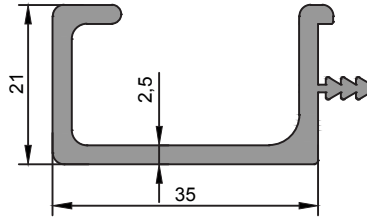
1962

0,242 kg/m



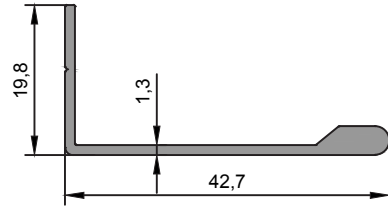
1116

0,244 kg/m



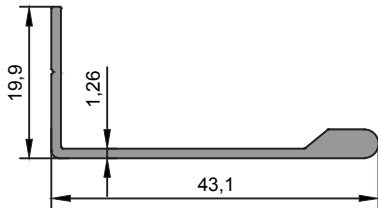
1631

0,589 kg/m



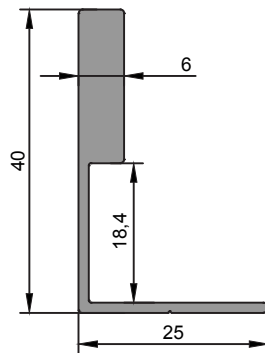
1996

0,265 kg/m



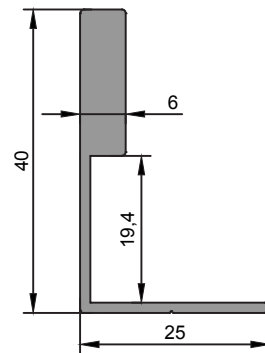
2007

0,262 kg/m



1975

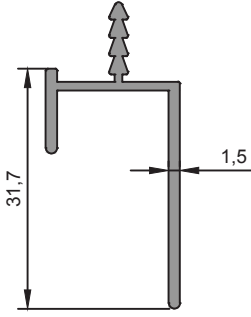
0,487 kg/m



2024

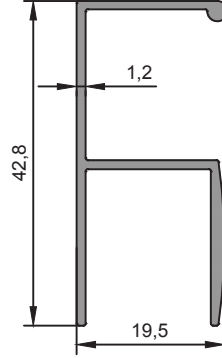
0,474 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



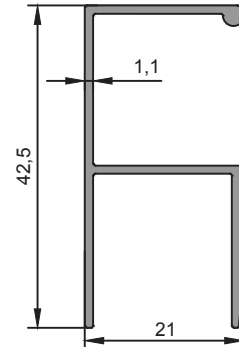
1664

0,260 kg/m



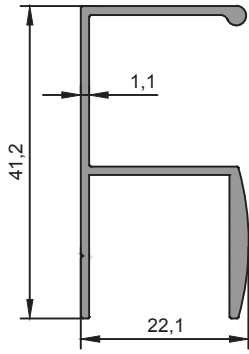
1596

0,347 kg/m



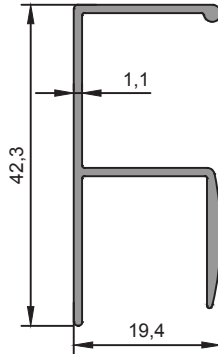
1641

0,331 kg/m



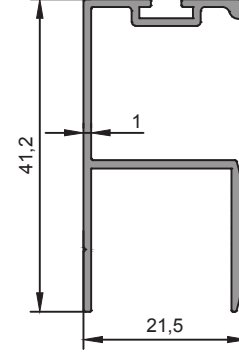
1965

0,362 kg/m



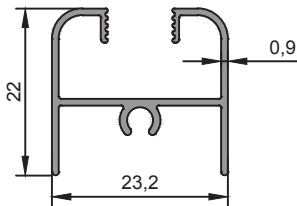
1598

0,305 kg/m



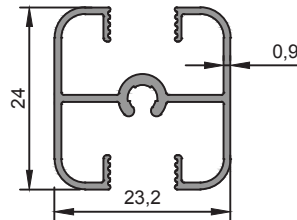
1956

0,336 kg/m



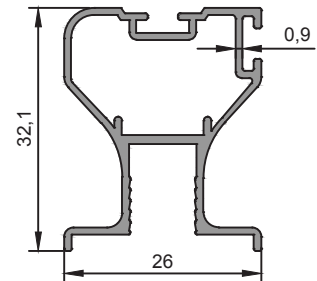
2045

0,221 kg/m



2046

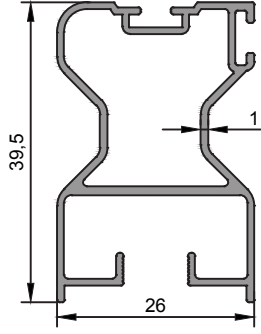
0,276 kg/m



2050

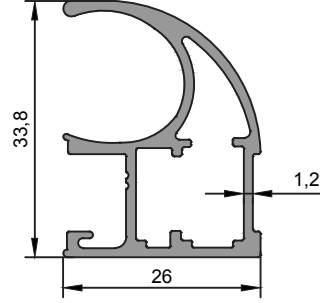
0,358 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



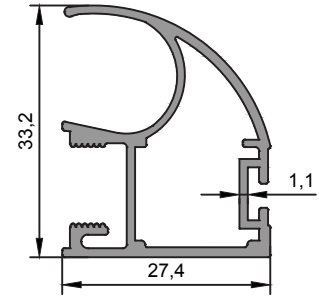
2048

0,442 kg/m



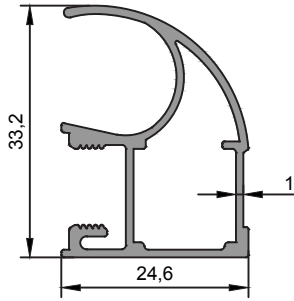
1665

0,495 kg/m



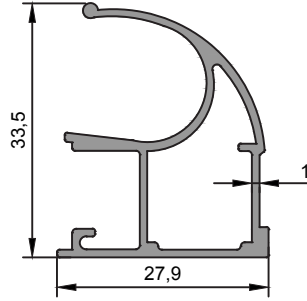
1813

0,466 kg/m



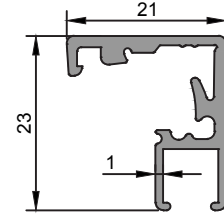
1581

0,392 kg/m



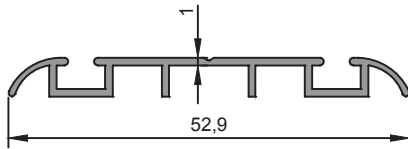
1148

0,389 kg/m



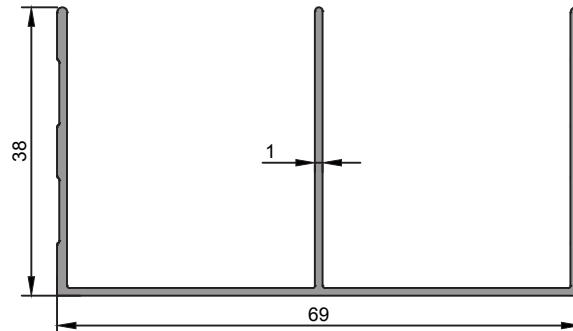
1180

0,283 kg/m



2049

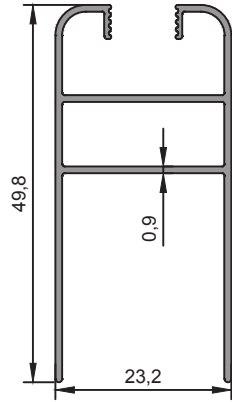
0,222 kg/m



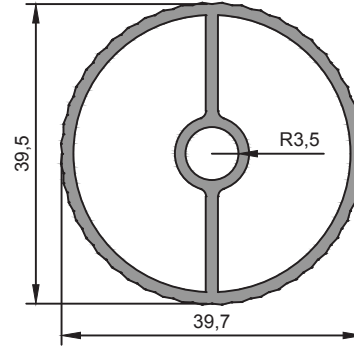
2044

0,519 kg/m

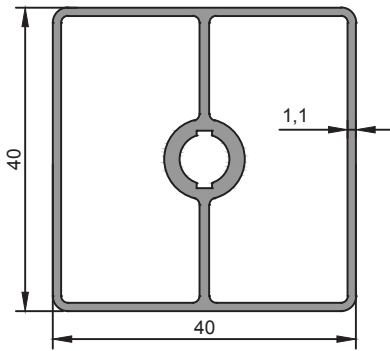
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



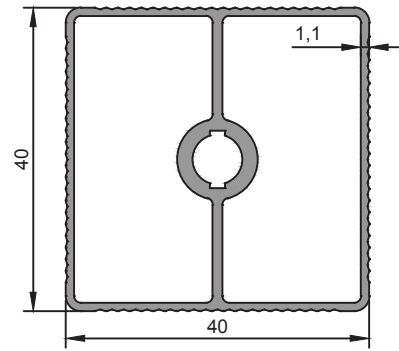
2047
0,385 kg/m



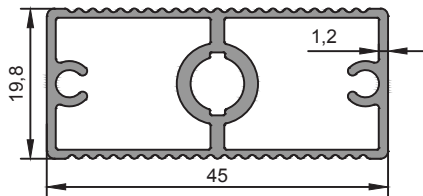
1249
0,733 kg/m



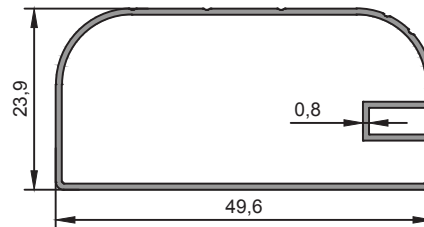
1245
0,695 kg/m



1179
0,661 kg/m

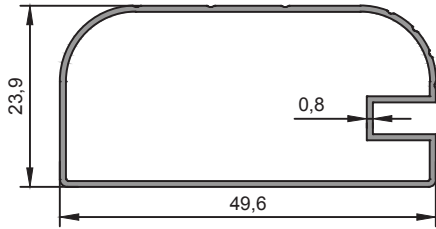


1242
0,571 kg/m



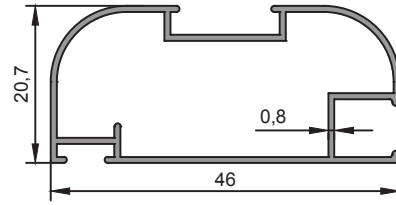
1309
0,326 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



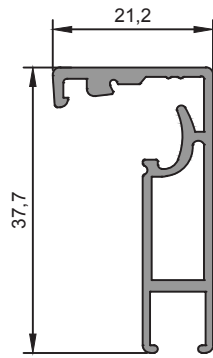
1385

0,326 kg/m



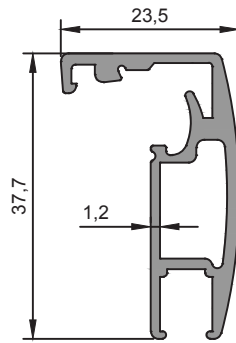
1498

0,322 kg/m



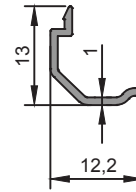
1181

0,391 kg/m



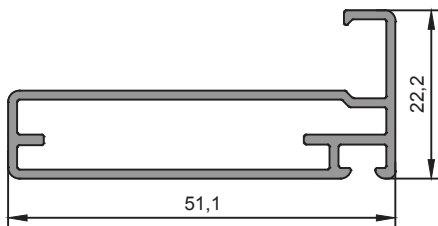
1182

0,485 kg/m



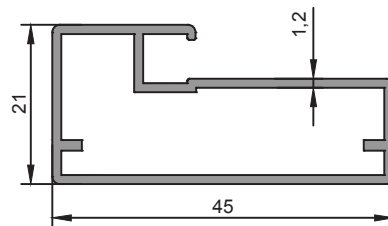
1186

0,64 kg/m



1467

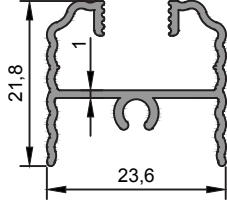
0,495 kg/m



1698

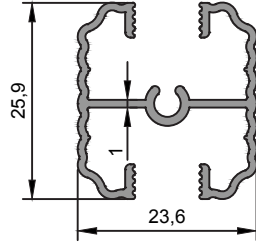
0,459 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



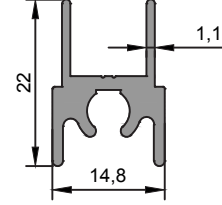
1548

0,256 kg/m



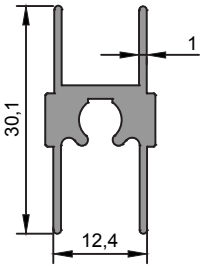
1549

0,320 kg/m



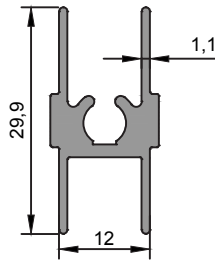
1669

0,292 kg/m



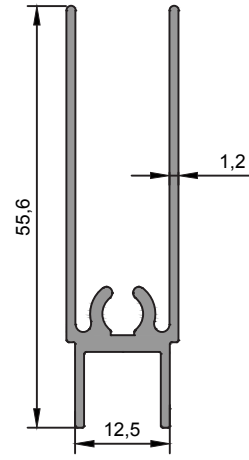
1670

0,340 kg/m



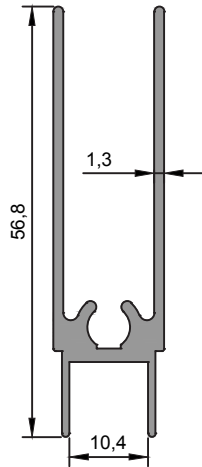
1276

0,346 kg/m



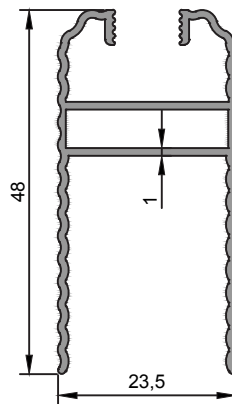
1278

0,497 kg/m



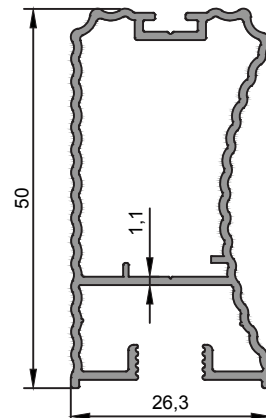
1668

0,528 kg/m



1550

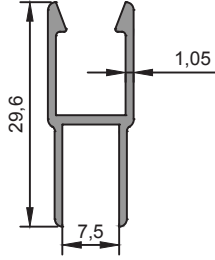
0,425 kg/m



1551

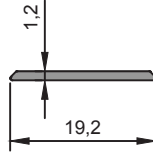
0,508 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



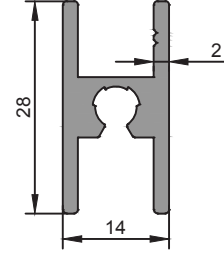
1620

0,209 kg/m



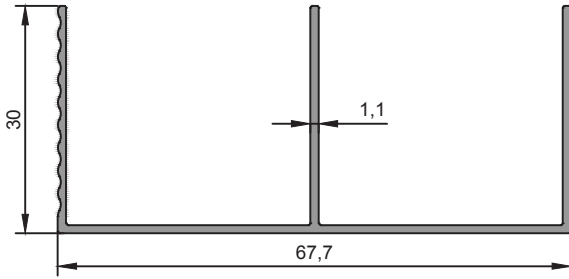
1663

0,60 kg/m



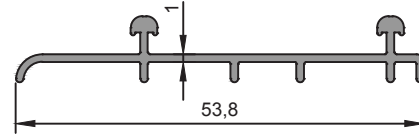
1666

0,434 kg/m



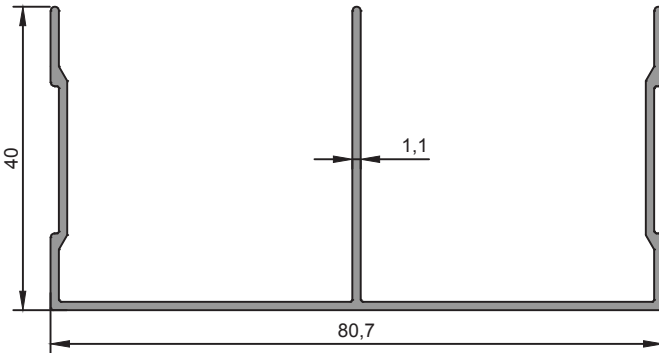
1546

0,445 kg/m



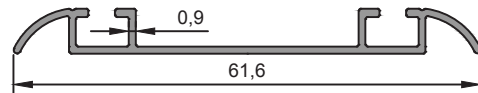
1547

0,236 kg/m



1279

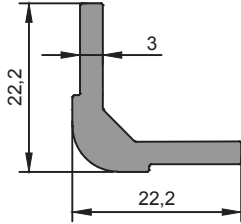
0,603 kg/m



1277

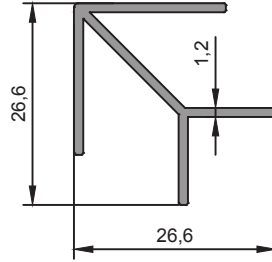
0,228 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



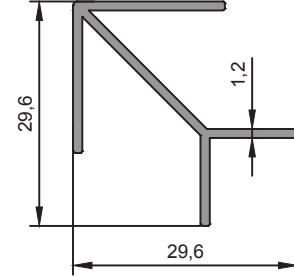
1671

0,376 kg/m



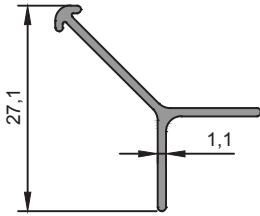
1392

0,263 kg/m



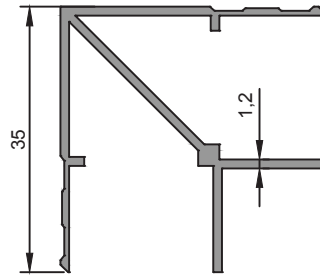
1393

0,276 kg/m



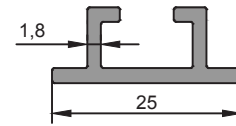
1360

0,146 kg/m



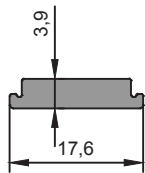
2035

0,379 kg/m



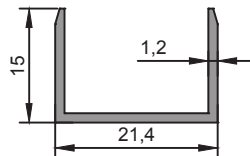
1661

0,239 kg/m



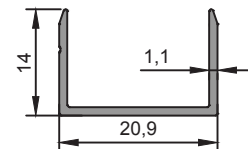
1662

0,167 kg/m



2033

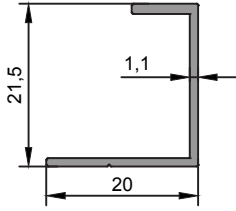
0,156 kg/m



1816

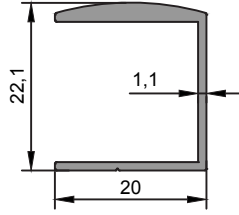
0,135 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



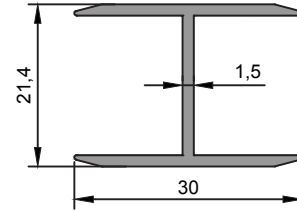
1963

0,147 kg/m



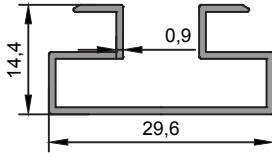
1964

0,224 kg/m



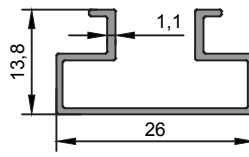
2043

0,299 kg/m



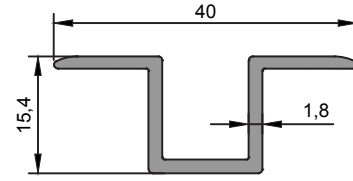
1141

0,208 kg/m



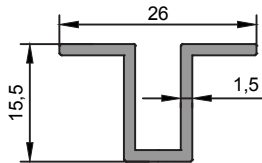
1815

0,167 kg/m



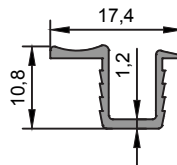
2031

0,309 kg/m



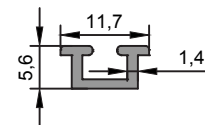
1824

0,219 kg/m



1968

0,101 kg/m

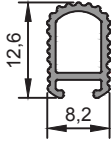


1974

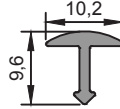
0,79 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

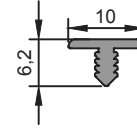
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



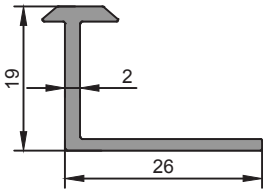
2085
0,92 kg/m



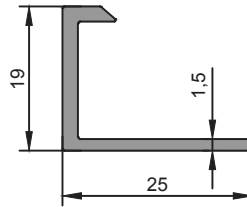
1766
0,69 kg/m



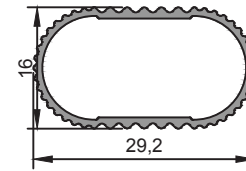
1049
0,63 kg/m



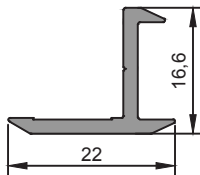
1376
0,234 kg/m



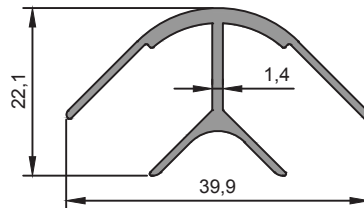
1377
0,218 kg/m



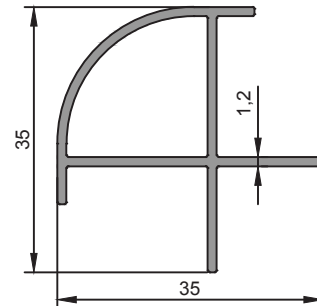
1957
0,197 kg/m



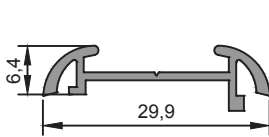
1449
0,190 kg/m



1291
0,311 kg/m

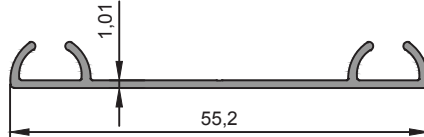


1814
0,356 kg/m



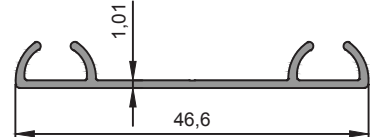
2034

0,163 kg/m



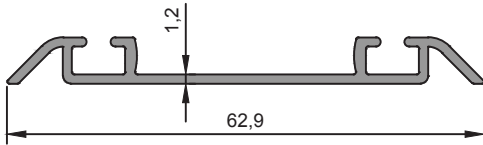
1966

0,215 kg/m



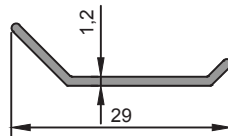
1967

0,192 kg/m



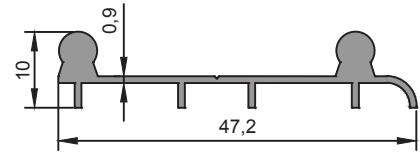
1667

0,312 kg/m



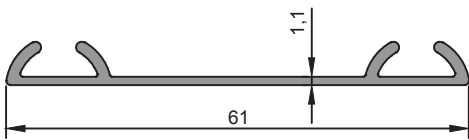
1715

0,106 kg/m



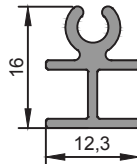
1954

0,288 kg/m



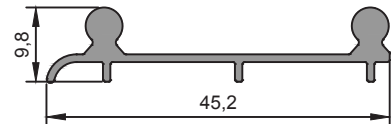
1689

0,222 kg/m



1716

0,170 kg/m

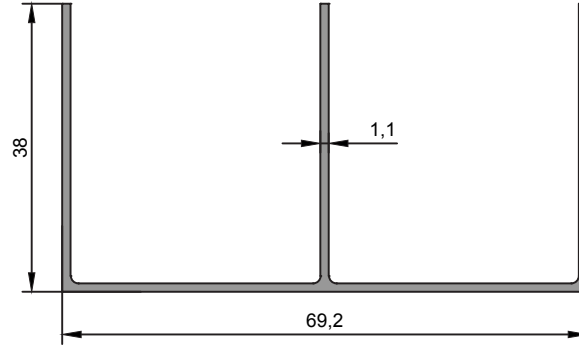


1859

0,282 kg/m

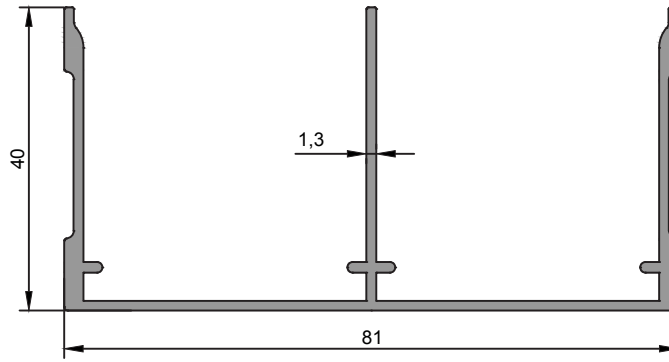
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



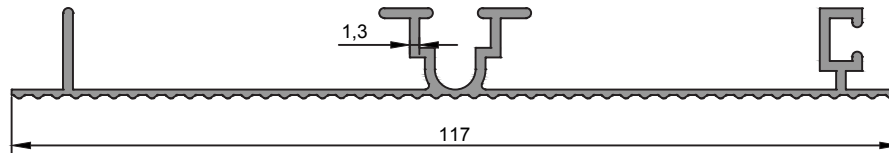
1608

0,538 kg/m



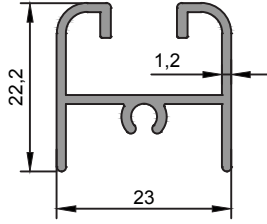
1684

0,822 kg/m



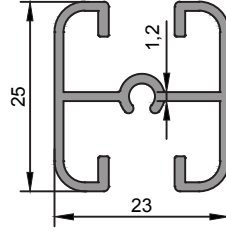
2032

0,530 kg/m



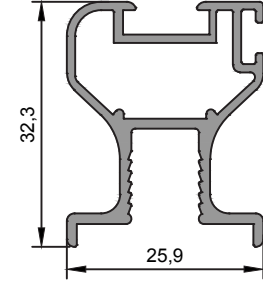
1741

0,294 kg/m



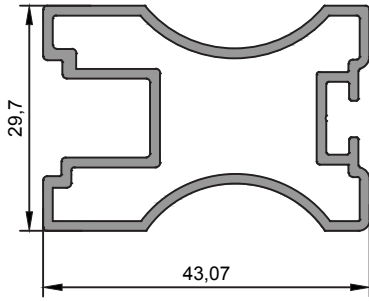
1742

0,360 kg/m



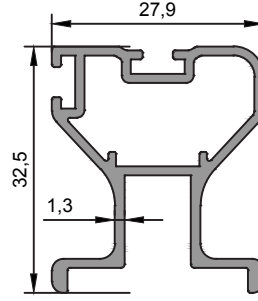
1530

0,549 kg/m



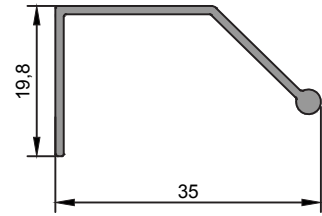
1638

0,676 kg/m



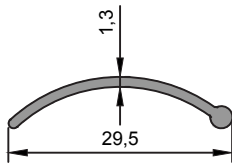
1736

0,488 kg/m



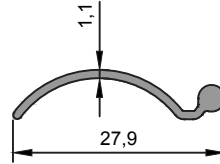
1688

0,187 kg/m



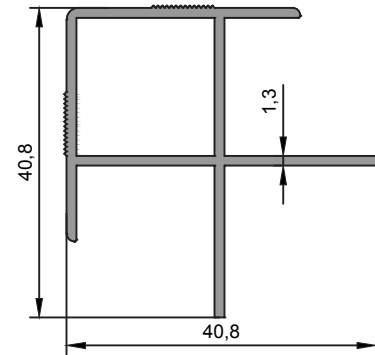
1708

0,119 kg/m



1710

0,112 kg/m

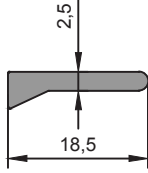


1814

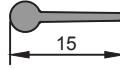
0,491 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

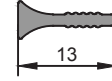
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



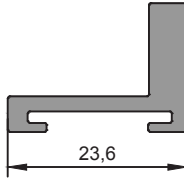
1712
0,141 kg/m



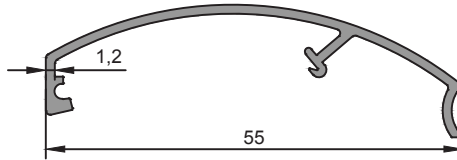
1709
0,68 kg/m



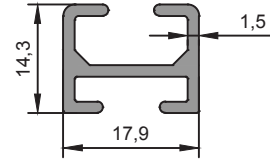
1711
0,71 kg/m



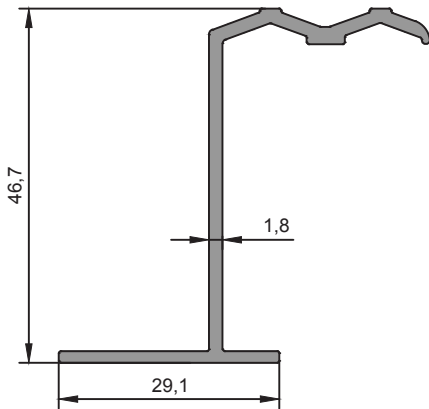
1714
0,346 kg/m



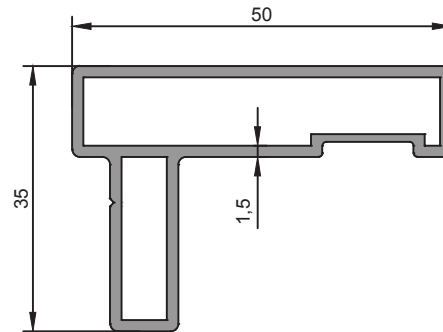
1460
0,279 kg/m



1428
0,249 kg/m

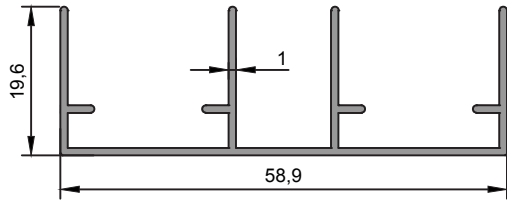


1687
0,479 kg/m



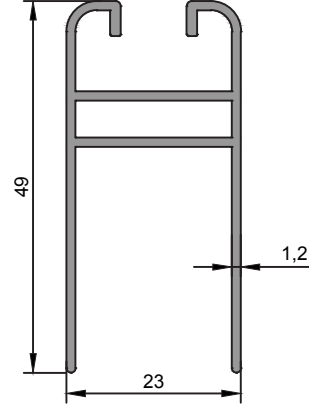
1293
0,683 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



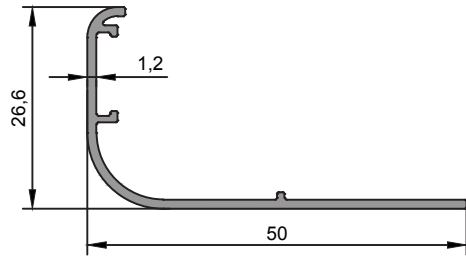
1597

0,396 kg/m



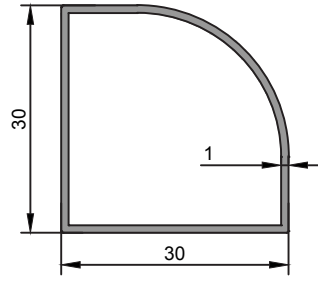
1743

0,506 kg/m



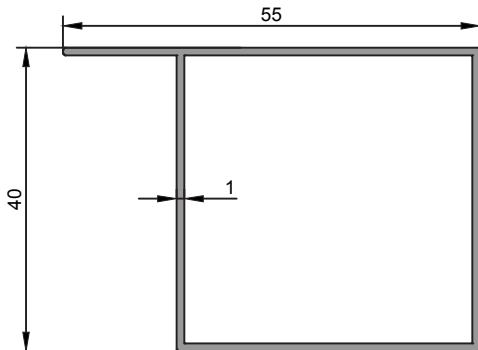
1713

0,259 kg/m



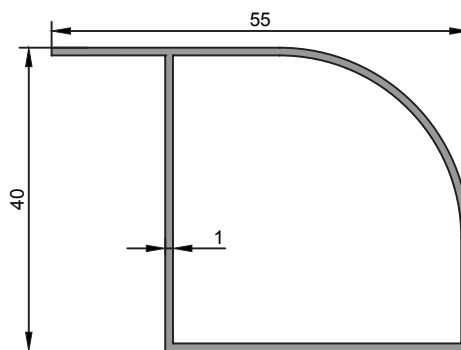
1898

0,291 kg/m



1899

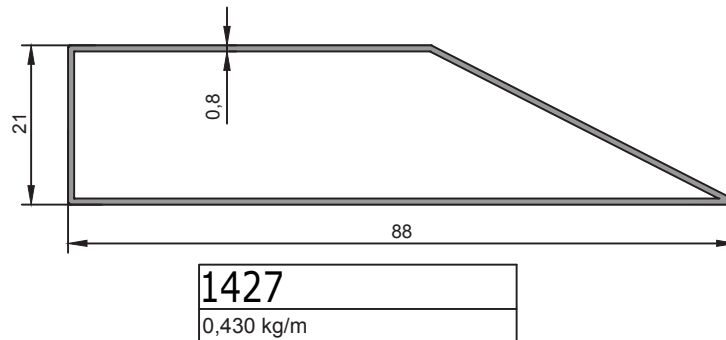
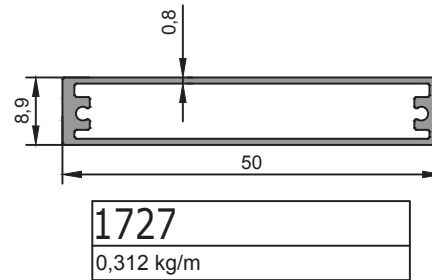
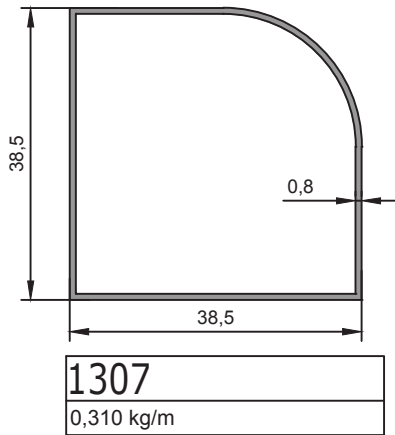
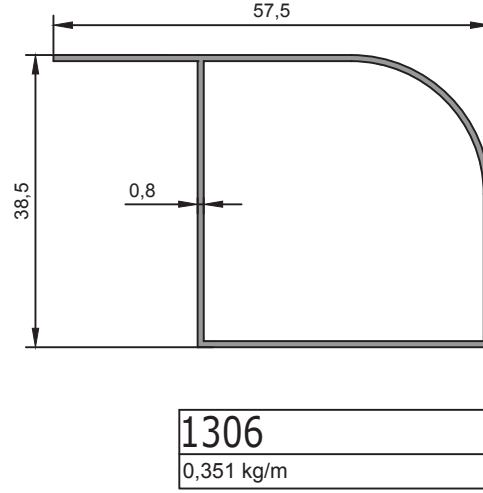
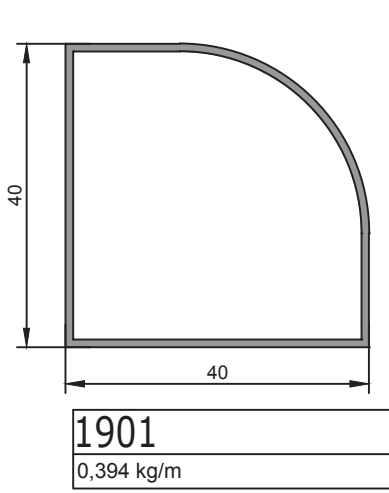
0,463 kg/m



1900

0,434 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.





HİLAL
Alüminyum

PROFİL KATALOĞU

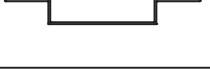
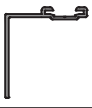
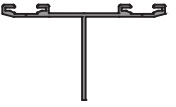
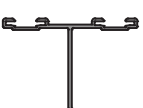
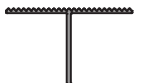
SERAMİK PROFİLLERİ

CERAMIC PROFILES

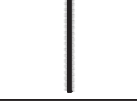
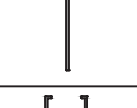
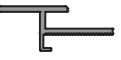
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

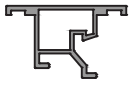
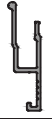
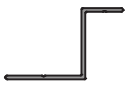
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1755	...	0,290 kg/m	...	...	
	1756	...	0,319 kg/m	...	...	
	1121	...	0,486 kg/m	...	...	
	1222	...	0,490 kg/m	...	...	
	1831	...	1,199 kg/m	...	...	
	1832	...	0,235 kg/m	...	...	
	1833	...	0,293 kg/m	...	...	
	1834	...	0,288 kg/m	...	...	
	2842	...	0,947 kg/m	...	...	
	1255	...	0,603 kg/m	...	...	
	1477	...	0,956 kg/m	...	...	
	1394	...	0,479 kg/m	...	...	
	1801	...	0,801 kg/m	...	...	
	1840	...	0,308 kg/m	...	...	

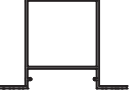
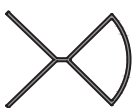
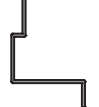
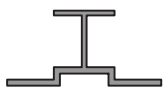
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1033	...	0,421 kg/m	...	...	
	1592	...	0,569 kg/m	...	...	
	1747	...	0,558 kg/m	...	...	
	1170	...	0,578 kg/m	...	...	
	1158	...	0,560 kg/m	...	...	
	1797	...	0,742 kg/m	...	...	
	1192	...	1,093 kg/m	...	...	
	1193	...	0,280 kg/m	...	...	
	1884	...	0,448 kg/m	...	...	
	1882	...	0,278 kg/m	...	...	
	1883	...	0,318 kg/m	...	...	
	1543	...	0,427 kg/m	...	...	
	1544	...	0,297 kg/m	...	...	
	1358	...	0,226 kg/m	...	...	

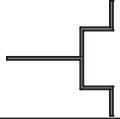
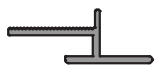
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1733	...	0,477 kg/m	...	...	
	1734	...	0,553 kg/m	...	...	
	1753	...	0,700 kg/m	...	...	
	1476	...	0,220 kg/m	...	...	
	1261	...	1,329 kg/m	...	...	
	1335	...	0,433 kg/m	...	...	
	1464	...	0,435 kg/m	...	...	
	1649	...	0,278 kg/m	...	...	
	1364	...	0,333 kg/m	...	...	
	1366	...	0,133 kg/m	...	...	
	1754	...	0,718 kg/m	...	...	
	1566	...	0,696 kg/m	...	...	
	1565	...	1,051 kg/m	...	...	
	1316	...	0,563 kg/m	...	...	

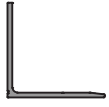
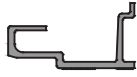
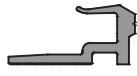
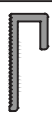
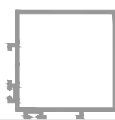
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1748	...	0,394 kg/m	...	...	
	1368	...	0,394 kg/m	...	...	
	1692	...	0,540 kg/m	...	...	
	1682	...	0,139 kg/m	...	...	
	1355	...	0,541 kg/m	...	...	
	1354	...	0,751 kg/m	...	...	
	2098	...	1,095 kg/m	...	...	
	1632	...	1,407 kg/m	...	...	
	1482	...	1,449 kg/m	...	...	
	1798	...	1,215 kg/m	...	...	
	1978	...	0,517 kg/m	...	...	
	3776	...	0,494 kg/m	...	...	
	3777	...	0,269 kg/m	...	...	
	3778	...	0,378 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

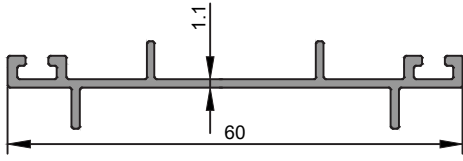
PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	3192	...	0,910 kg/m	...	...	
	3220	...	0,484 kg/m	...	...	
	3221	...	0,268 kg/m	...	...	
	3222	...	0,220 kg/m	...	...	
	3668	...	0,563 kg/m	...	...	
	3748	...	0,748 kg/m	...	...	
	3802	...	1,257 kg/m	...	...	
	3954	...	0,334 kg/m	...	...	
	3955	...	0,436 kg/m	...	...	
	3999	...	0,708 kg/m	...	...	
	4015	...	0,461 kg/m	...	...	
	4016	...	0,488 kg/m	...	...	
	4798	...	0,131 kg/m	...	...	
	4068	...	0,640 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	2637	...	0,954 kg/m	...	...	
	2999	...	0,594 kg/m	...	...	
	2634	...	0,909 kg/m	...	...	
	2635	...	1,500 kg/m	...	...	
	2636	...	1,074 kg/m	...	...	
	1365	...	1,168 kg/m	...	...	
	1367	...	1,379 kg/m	...	...	
	1369	...	1,802 kg/m	...	...	
	1370	...	1,590 kg/m	...	...	
	2900	...	0,353 kg/m	...	...	
	2901	...	0,297 kg/m	...	...	
	3025	...	0,871 kg/m	...	...	
	3026	...	1,531 kg/m	...	...	
	3222	...	0,220 kg/m	...	...	

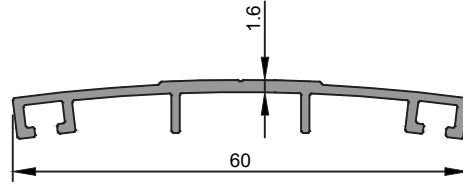
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

[illegible]



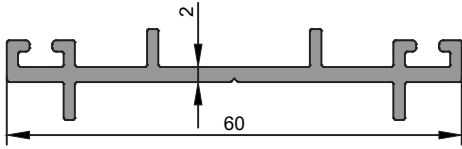
1755

0,290 kg/m



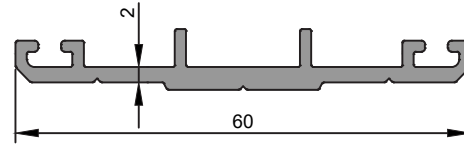
1756

0,319 kg/m



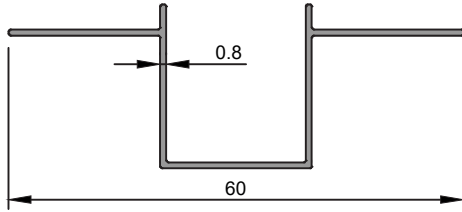
1121

0,486 kg/m



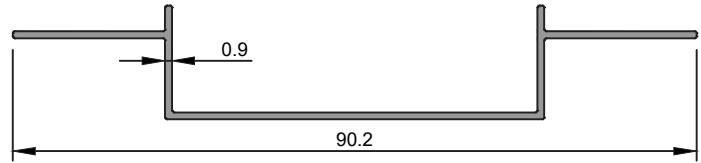
1222

0,490 kg/m



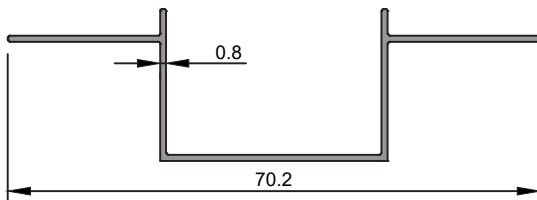
1831

0,220 kg/m



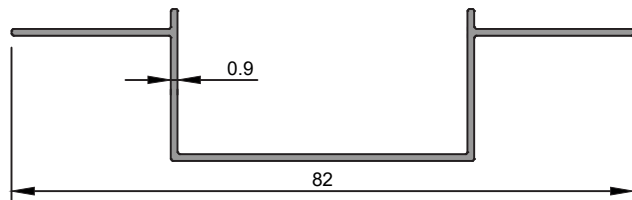
1834

0,288 kg/m



1832

0,235 kg/m

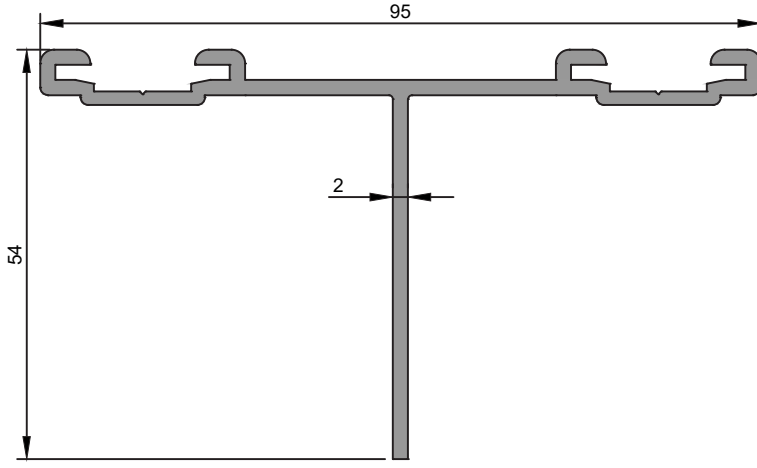


1833

0,293 kg/m

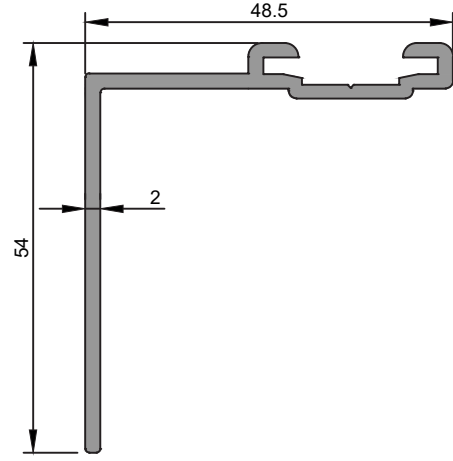
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



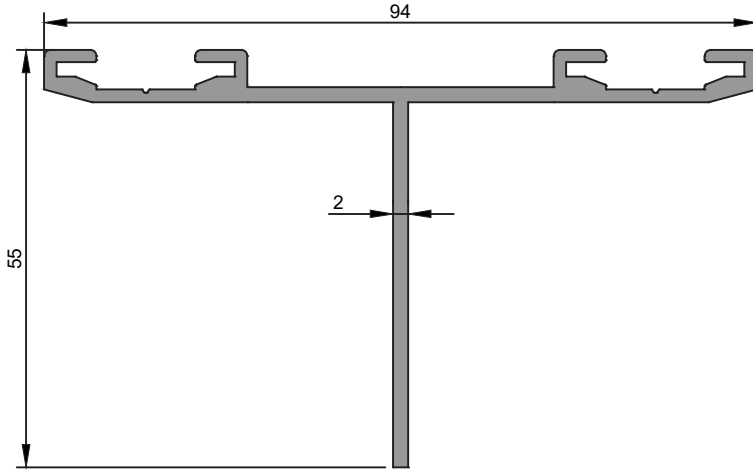
1060

0,947 kg/m



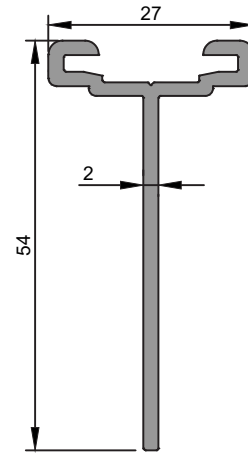
1255

0,603 kg/m



1477

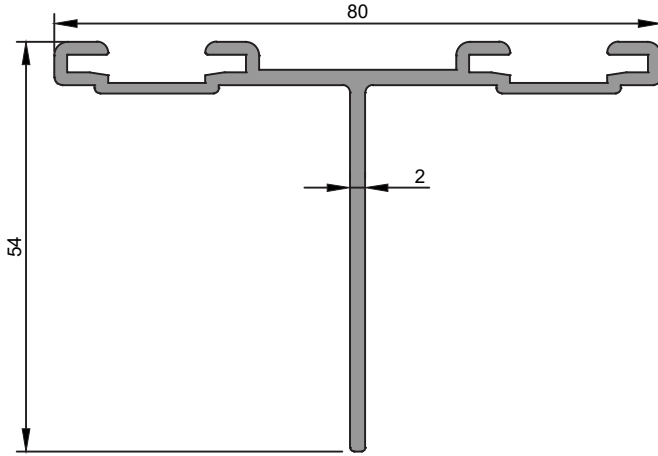
0,956 kg/m



1394

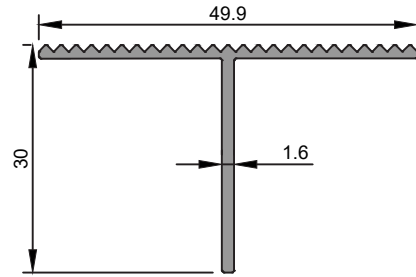
0,479 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



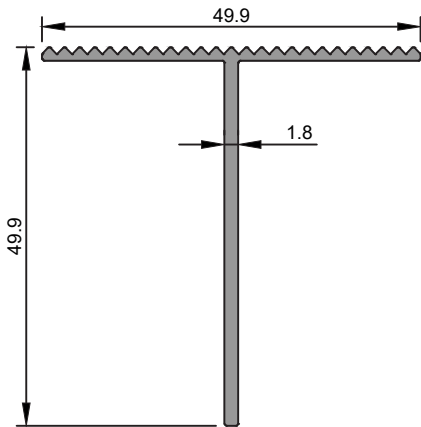
1801

0,805 kg/m



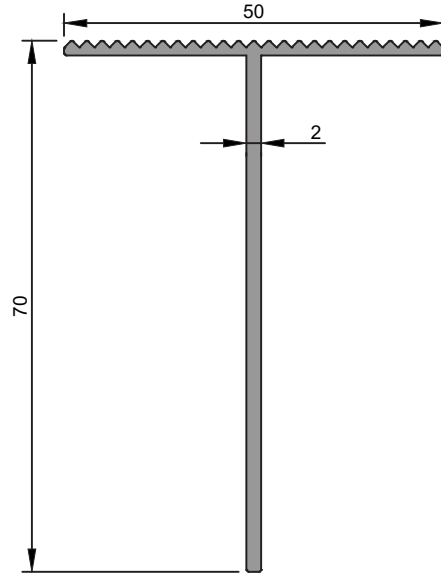
1840

0,308 kg/m



1033

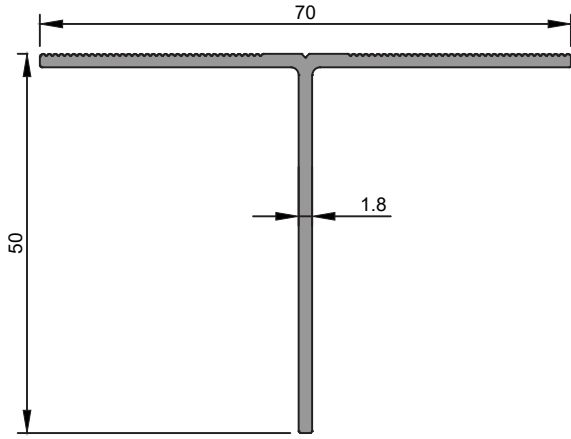
0,421 kg/m



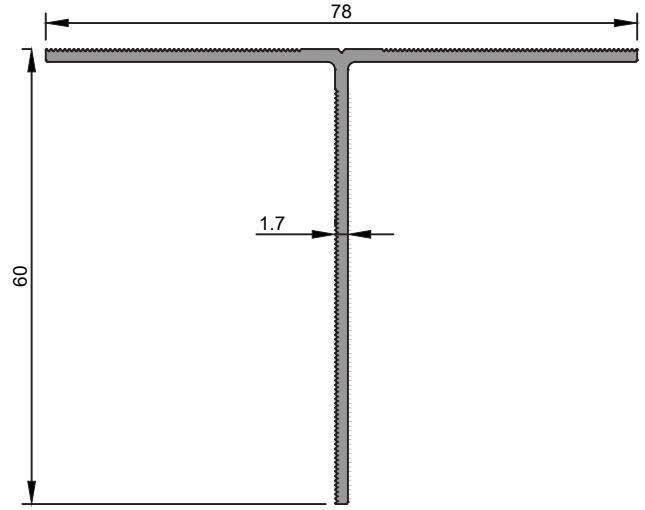
1592

0,569 kg/m

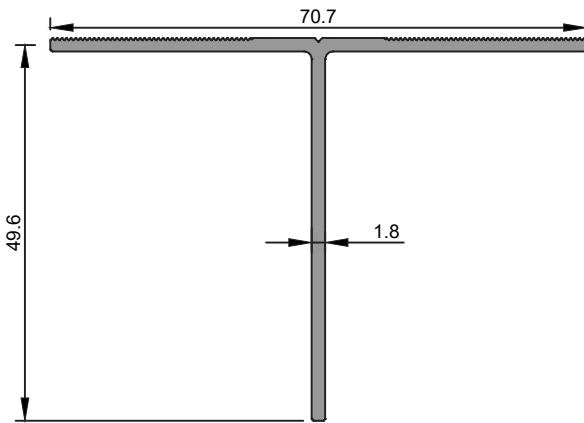
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



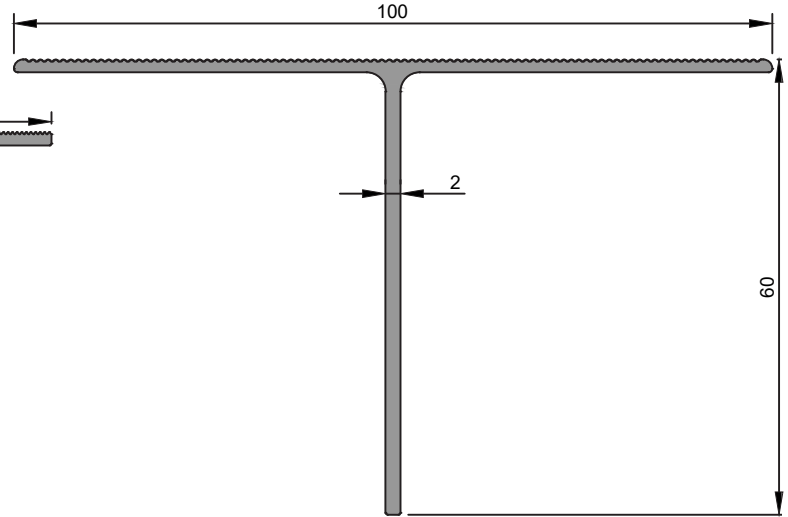
1747
0,558 kg/m



1170
0,578 kg/m

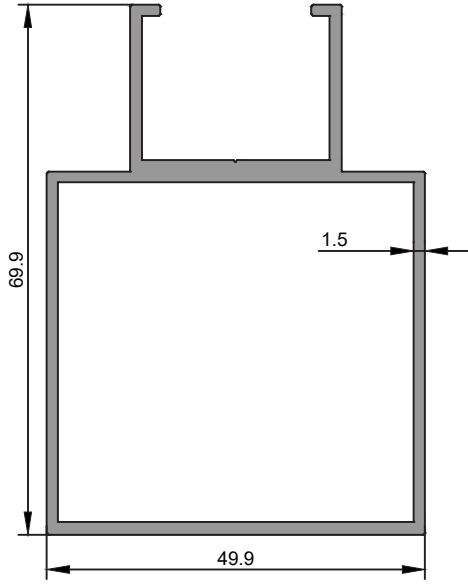


1158
0,560 kg/m



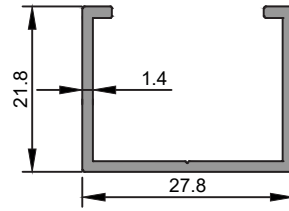
1797
0,742 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



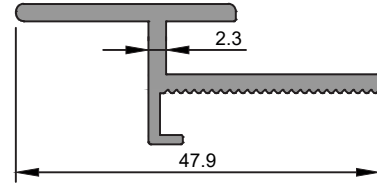
1192

1,093 kg/m



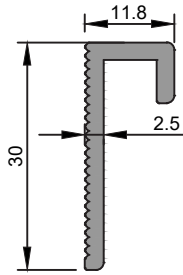
1193

0,280 kg/m



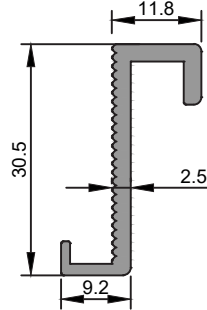
1884

0,448 kg/m



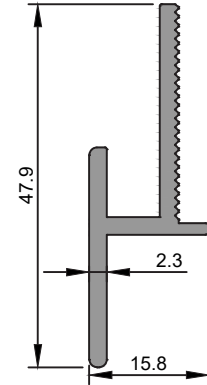
1882

0,278 kg/m



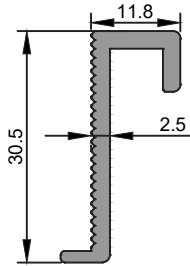
1883

0,318 kg/m



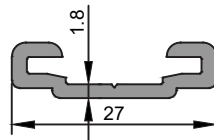
1543

0,427 kg/m



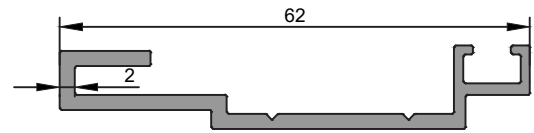
1544

0,297 kg/m



1358

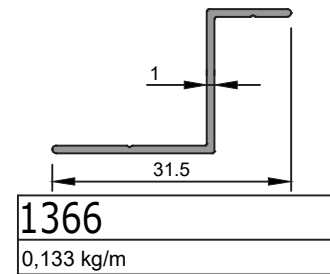
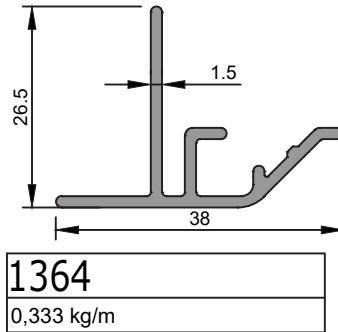
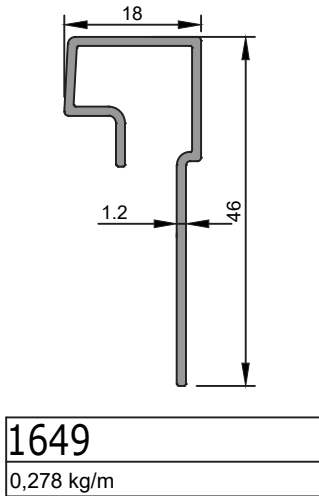
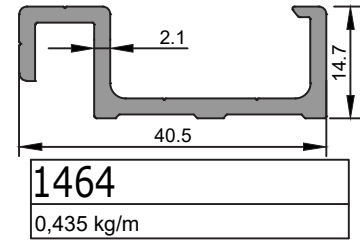
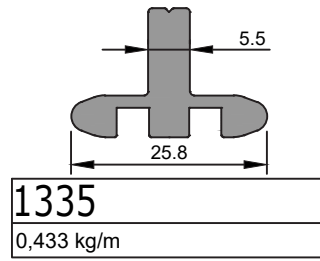
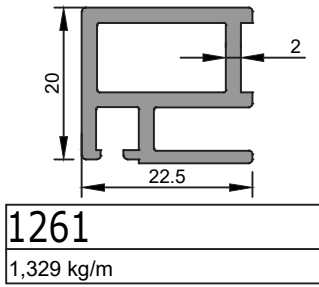
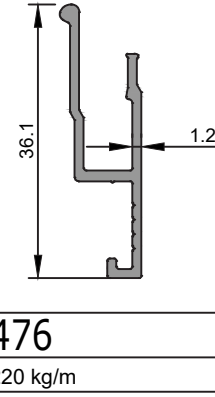
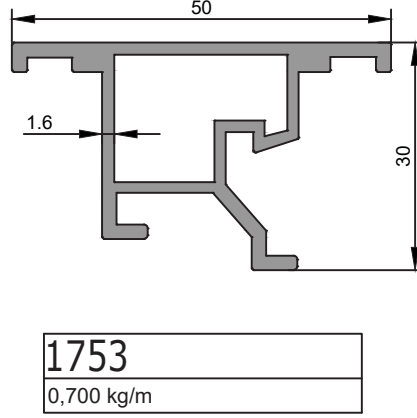
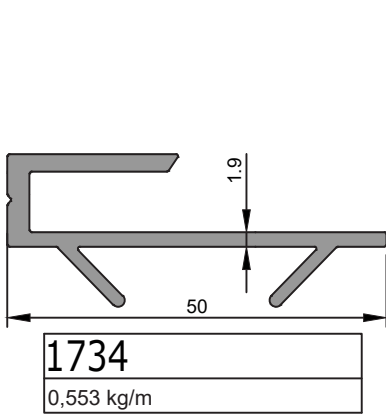
0,226 kg/m

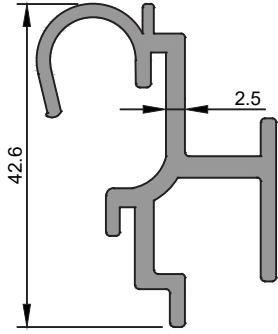


1733

0,477 kg/m

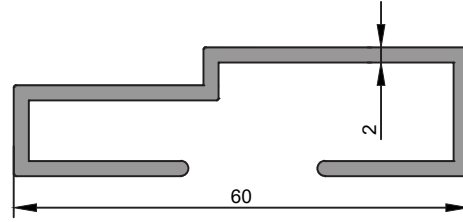
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.





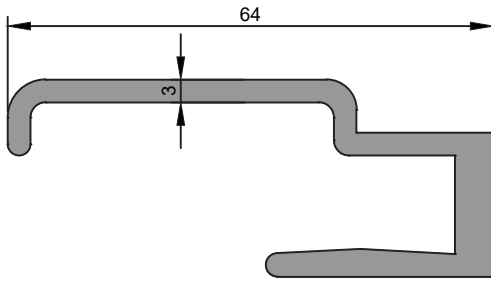
1754

0,718 kg/m



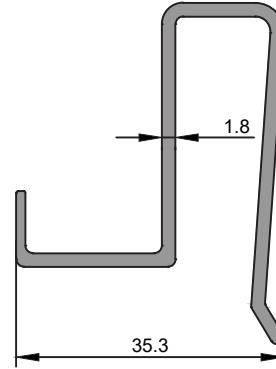
1566

0,696 kg/m



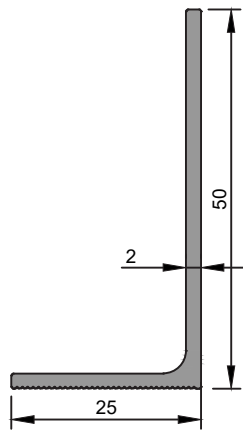
1565

1,051 kg/m



1316

0,563 kg/m

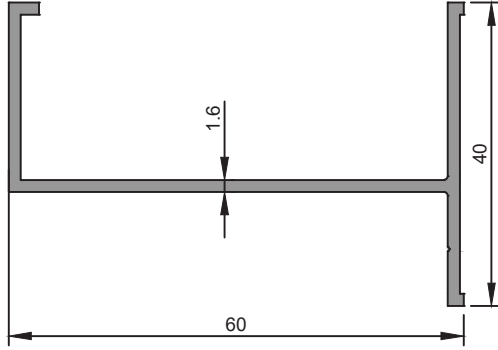


1748

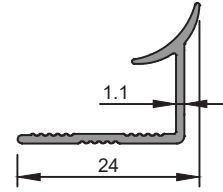
0,394 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

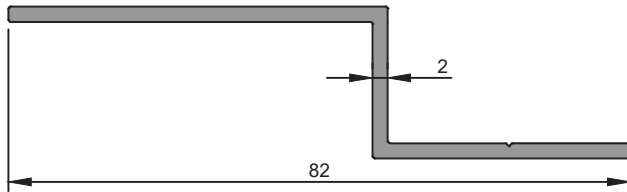
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



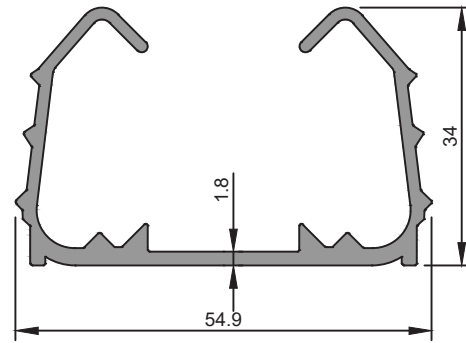
1692
0,540 kg/m



1682
0,139 kg/m

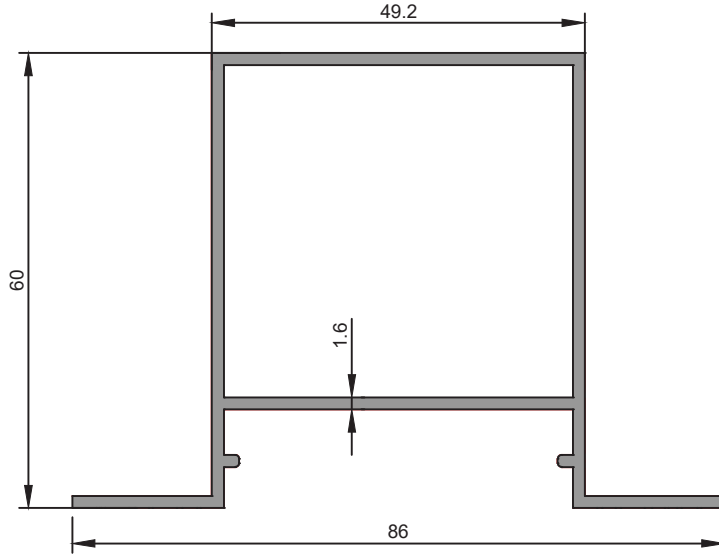


1355
0,541 kg/m



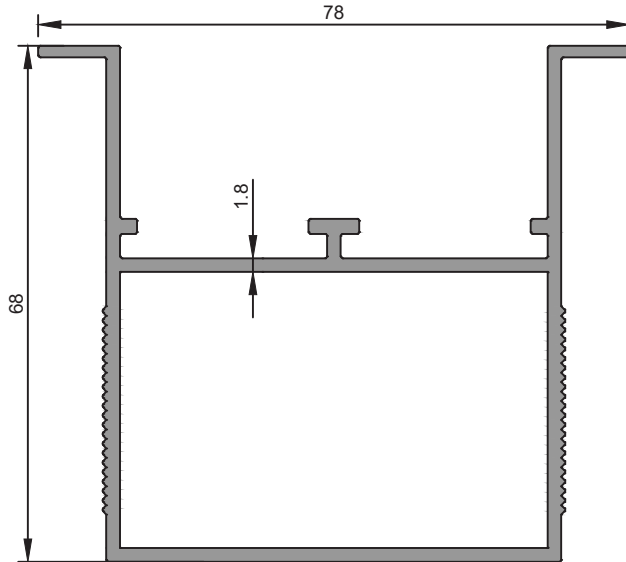
1354
0,751 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



2098

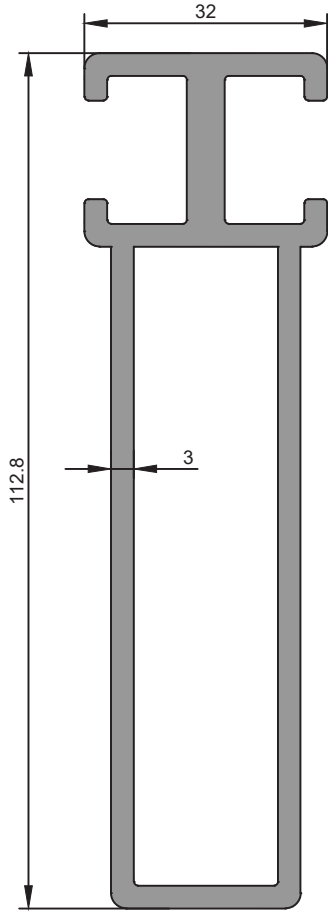
1,095 kg/m



1632

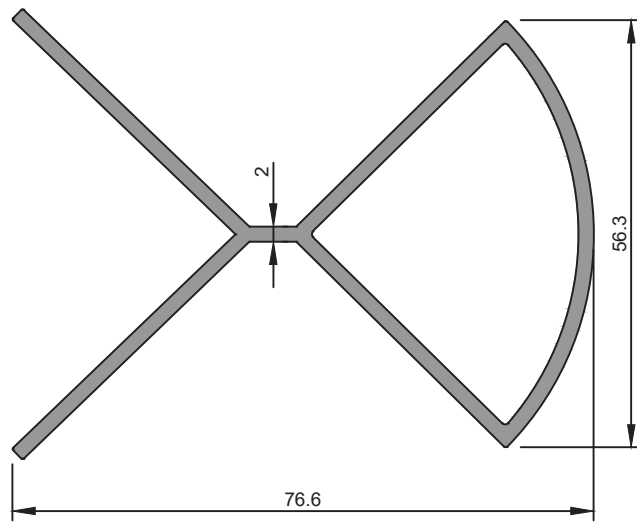
1,407 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



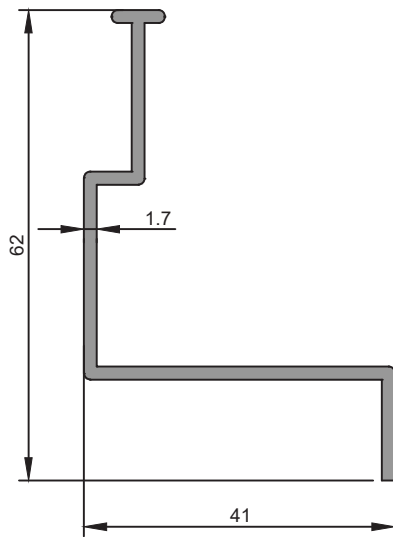
1482

1,449 kg/m



1798

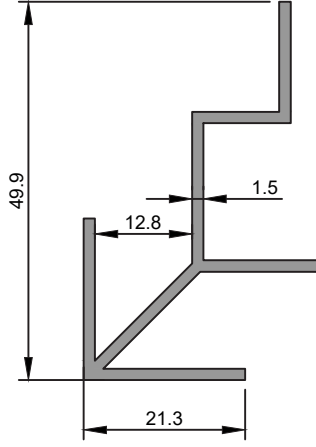
1,215 kg/m



1978

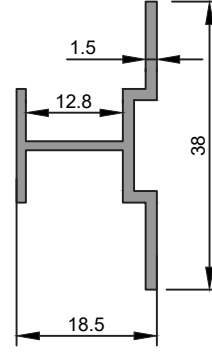
0,517 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



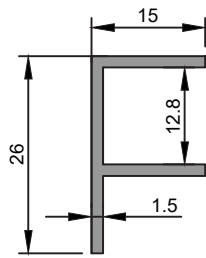
3776

0,494 kg/m



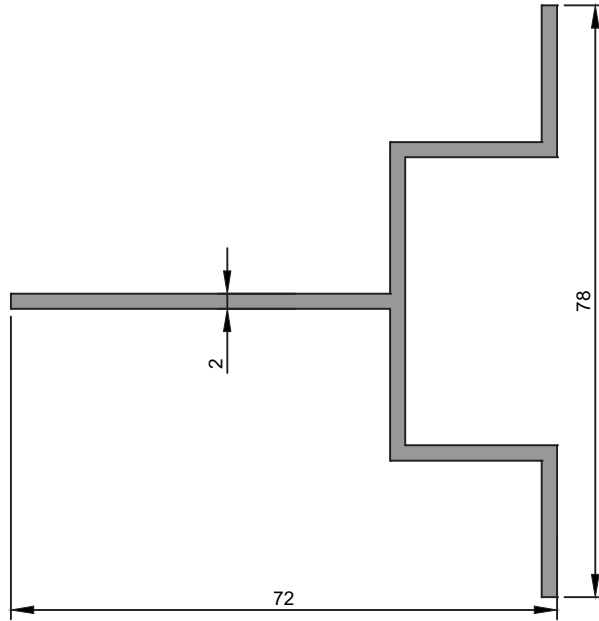
3777

0,269 kg/m



3778

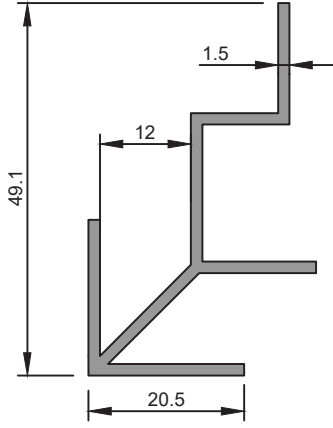
0,217 kg/m



3192

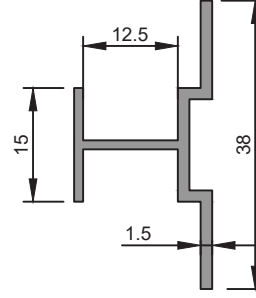
0,910 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



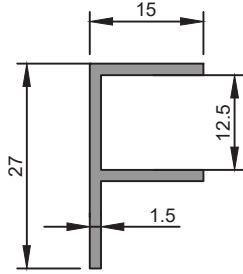
3220

0,484 kg/m



3221

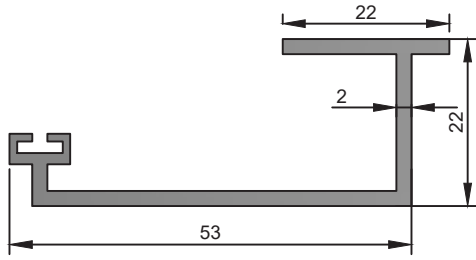
0,268 kg/m



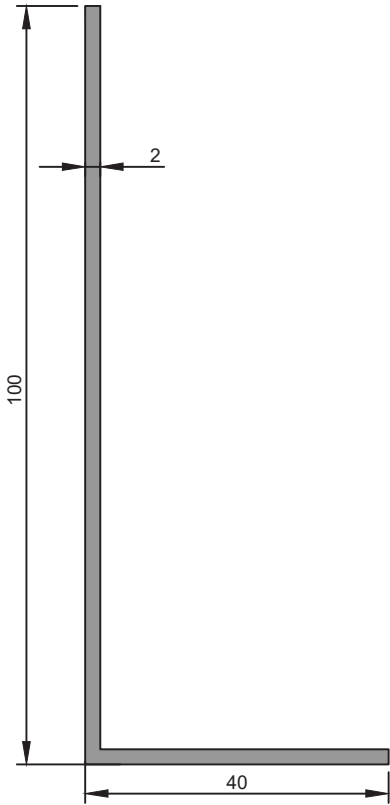
3222

0,220 kg/m

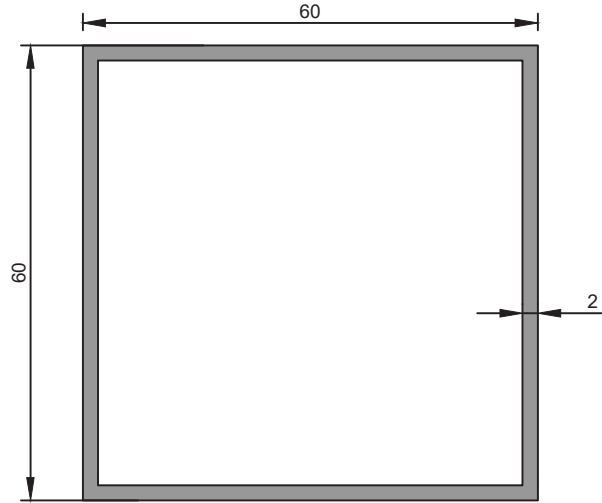
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



3668
0,563 kg/m

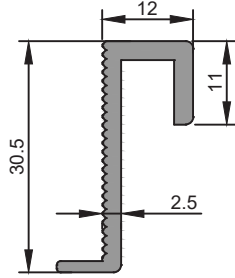


3748
0,748 kg/m



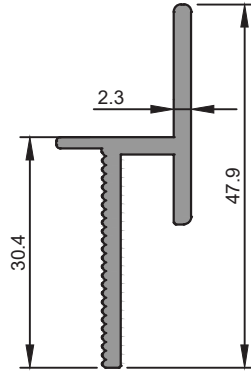
3802
1,257 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



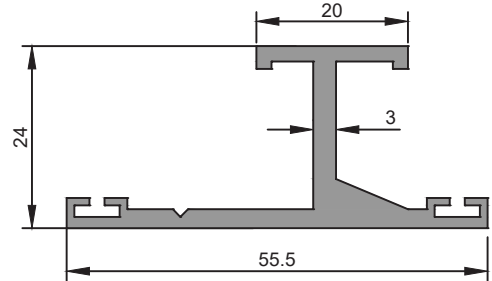
3954

0,334 kg/m



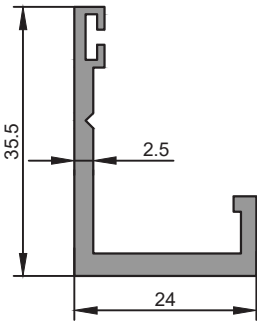
3955

0,436 kg/m



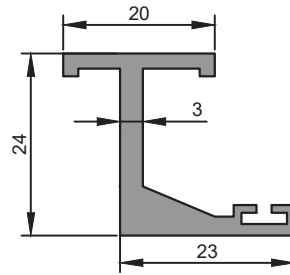
3999

0,708 kg/m



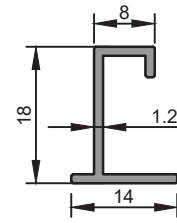
4015

0,461 kg/m



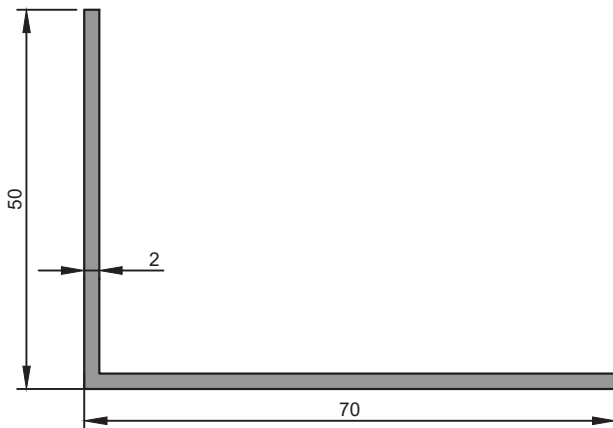
4016

0,488 kg/m



4798

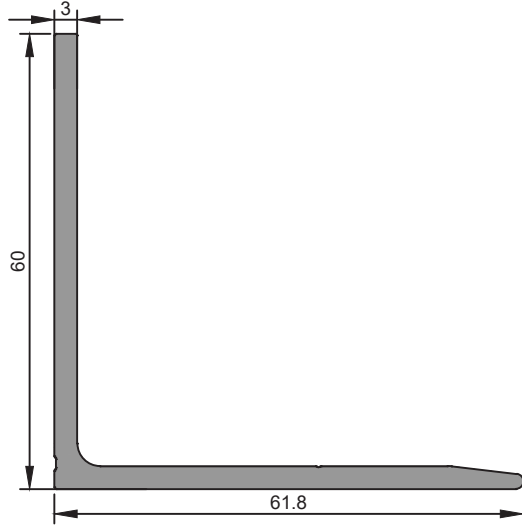
0,131 kg/m



4068

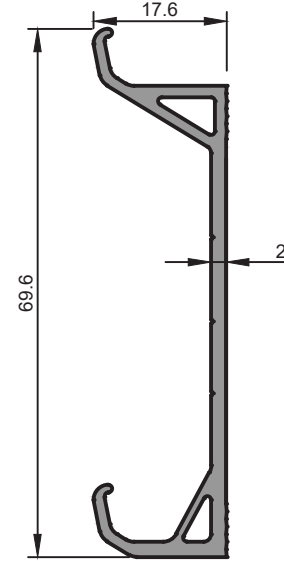
0,640 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



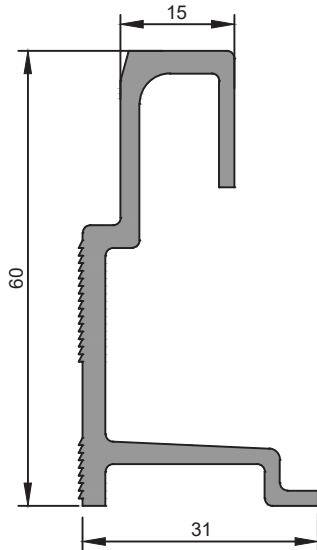
2637

0,954 kg/m



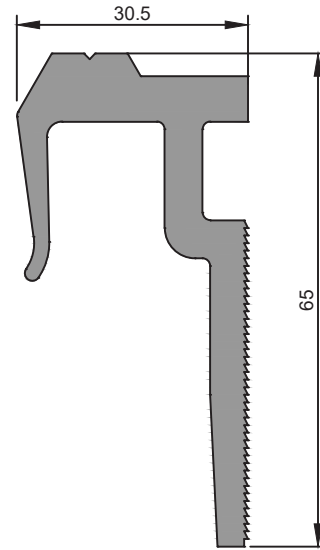
2999

0,594 kg/m



2634

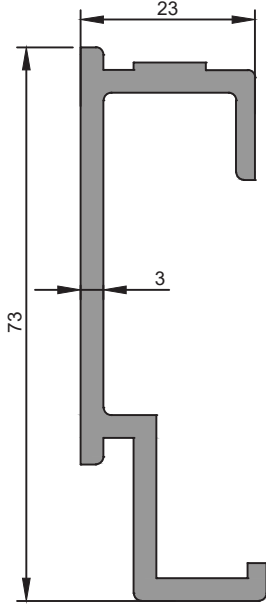
0,909 kg/m



2635

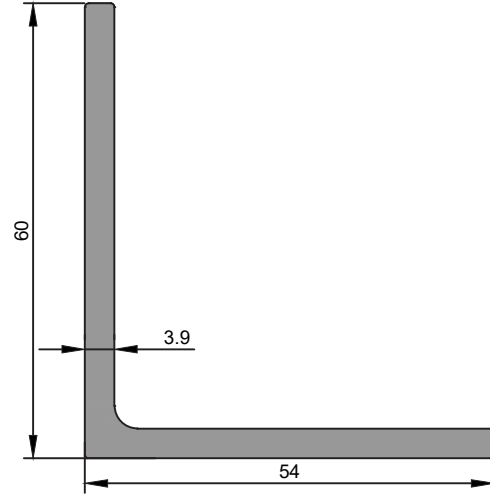
1,500 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



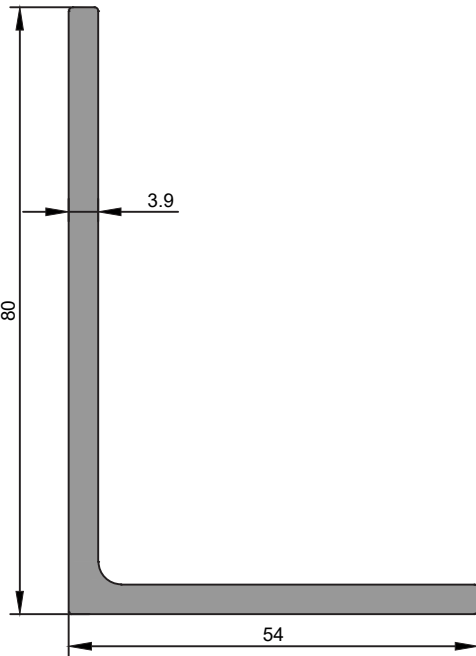
2636

1,074 kg/m



1365

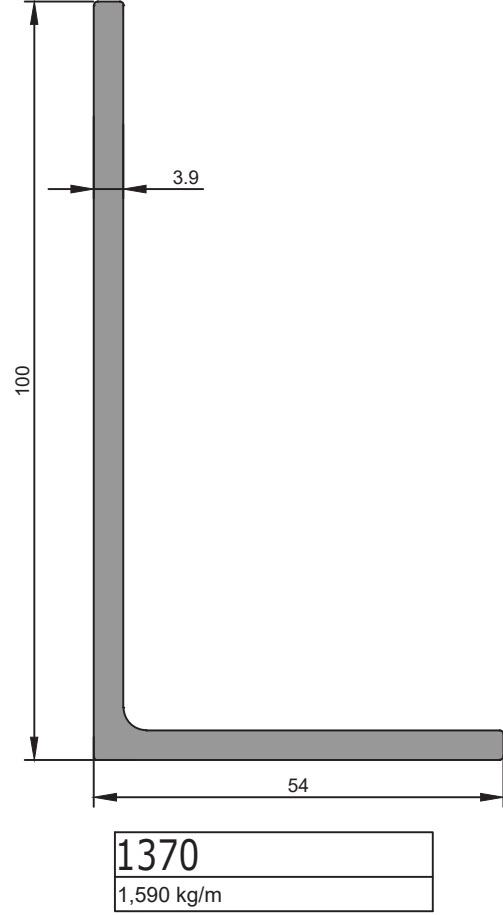
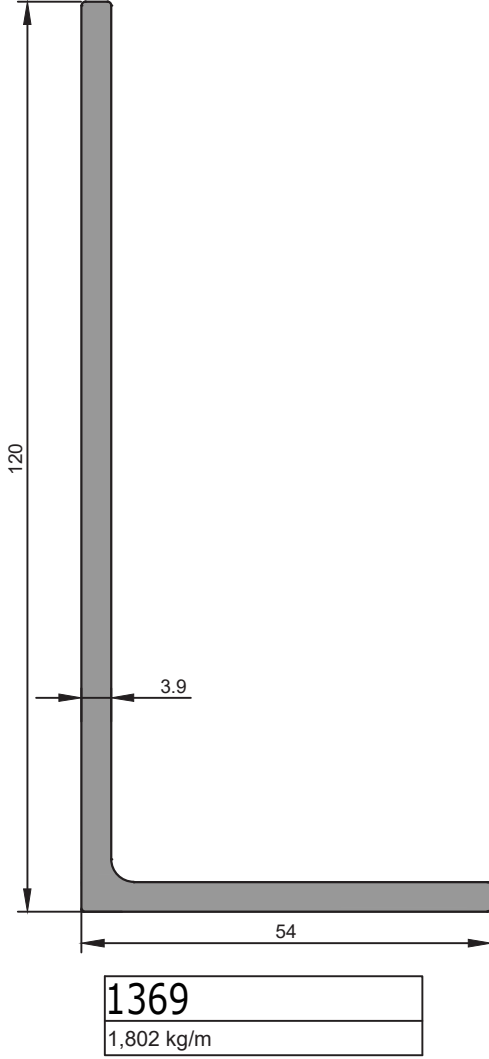
1,168 kg/m



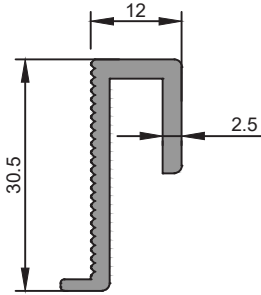
1367

1,379 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

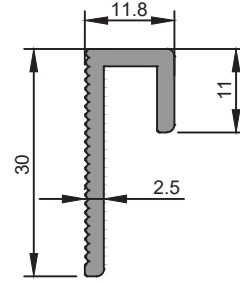


★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



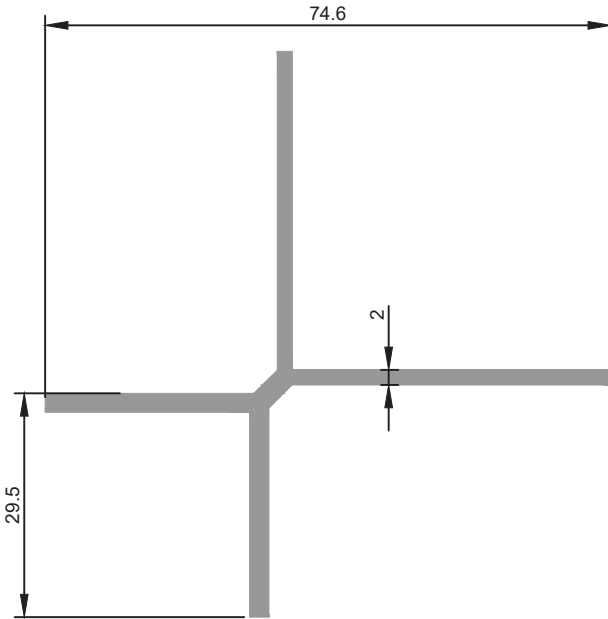
2900

0,353 kg/m



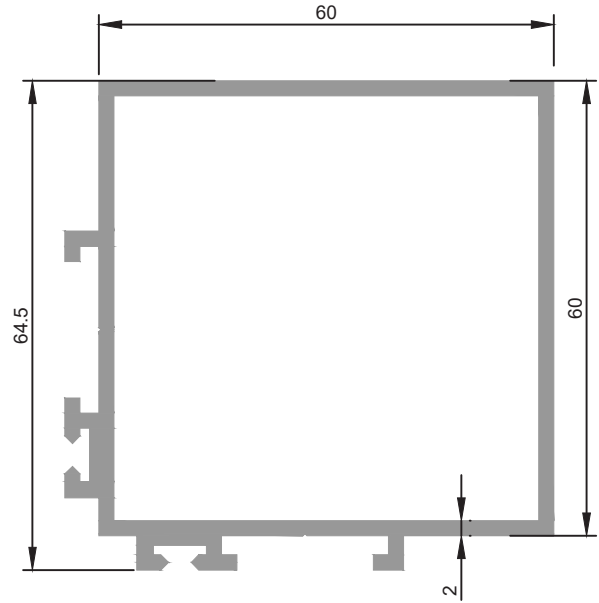
2901

0,297 kg/m



3025

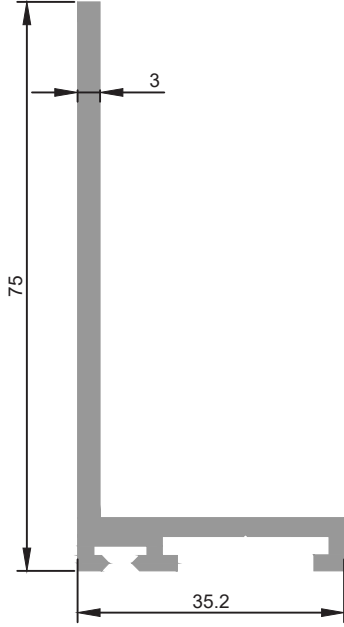
0,871 kg/m



3026

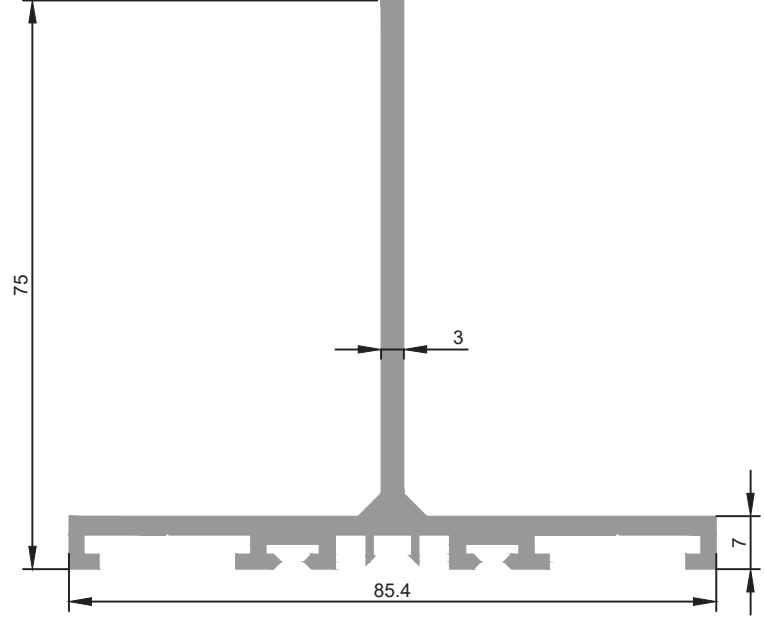
1,531 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



3027

0,928 kg/m



3028

1,448 kg/m



HİLAL
Alüminyum

PROFİL KATALOĞU

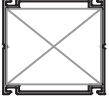
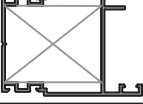
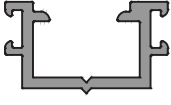
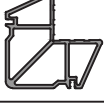
TEMİZ ODA PROFİLLERİ

COOLING ROOM PROFILES

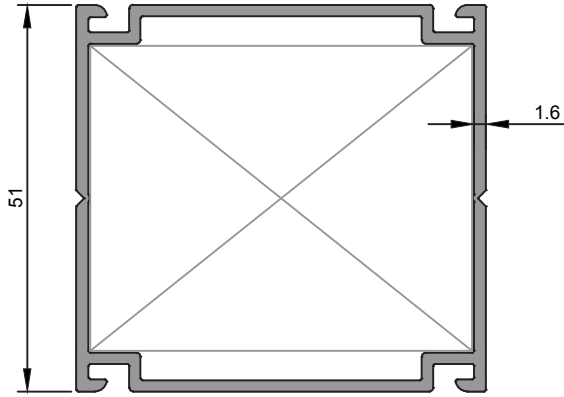
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

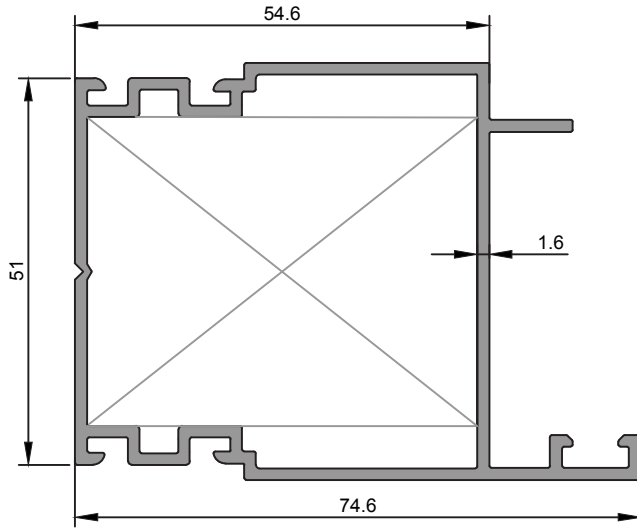
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	3486	Panel Kasa	0,945 kg/m	15,95	14,21	
	3485	Panel Kapı	1,197 kg/m	26,67	18,52	
	3487	Kapı Çıtası	0,257 kg/m	...	...	
	3489	Orta Kayıt Çıtası	0,538 kg/m	...	...	
	3294	Cam Arası Kapağı	0,127 kg/m	...	...	
	3297	Cam Arası Kapağı	0,382 kg/m	...	...	
	2916	Köşe Takoza	4,919 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

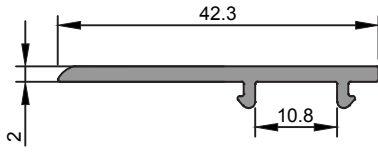


3486
Panel Kasa
0,945 kg/m
Jx=15,95 cm ⁴ Jy=14,21 cm ⁴

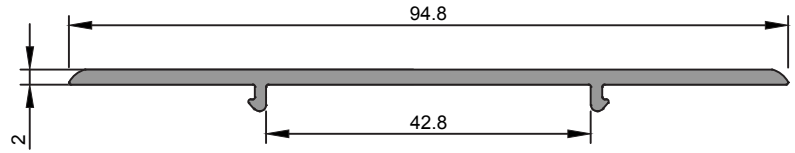


3485
Panel Kapı
1,197 kg/m
Jx=26,67 cm ⁴ Jy=18,52 cm ⁴

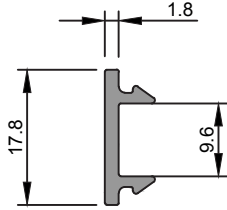
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



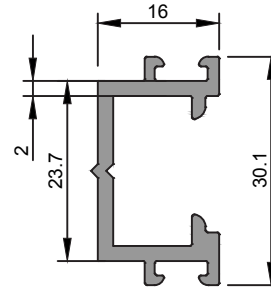
3487
Kapı Çıtası
0,257 kg/m



3489
Orta Kayıt Çıtası
0,538 kg/m

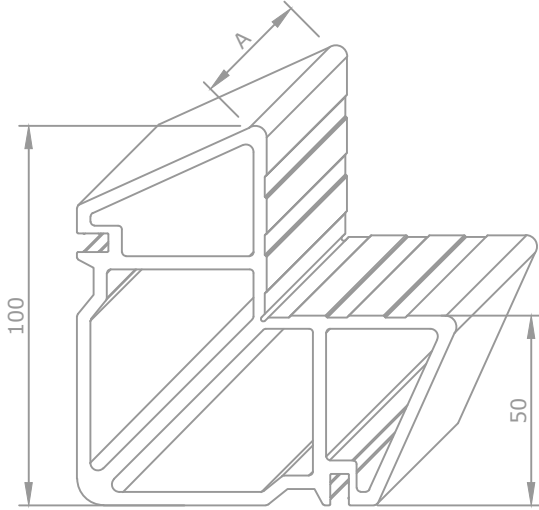


3294
Cam Arası Kapağı
0,127 kg/m



3297
Cam Arası Kapağı
0,382 kg/m

KÖŞE TAKOZU KESİM ÖLÇÜLERİ

**2916**

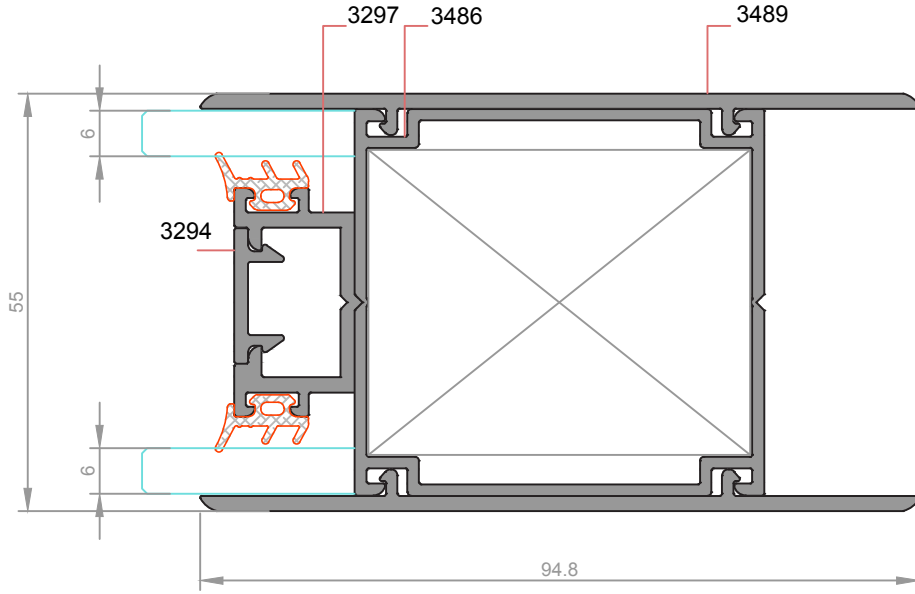
Köşe Takozu

4,919 kg/m

Aksesuar Kodu	Profil Kodu	Kesim Ölçüsü A(mm)
K2916 402	3485	40.2
K2916 402	3486	40.2

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

DETAY-1
ÖLÇEK:1/1

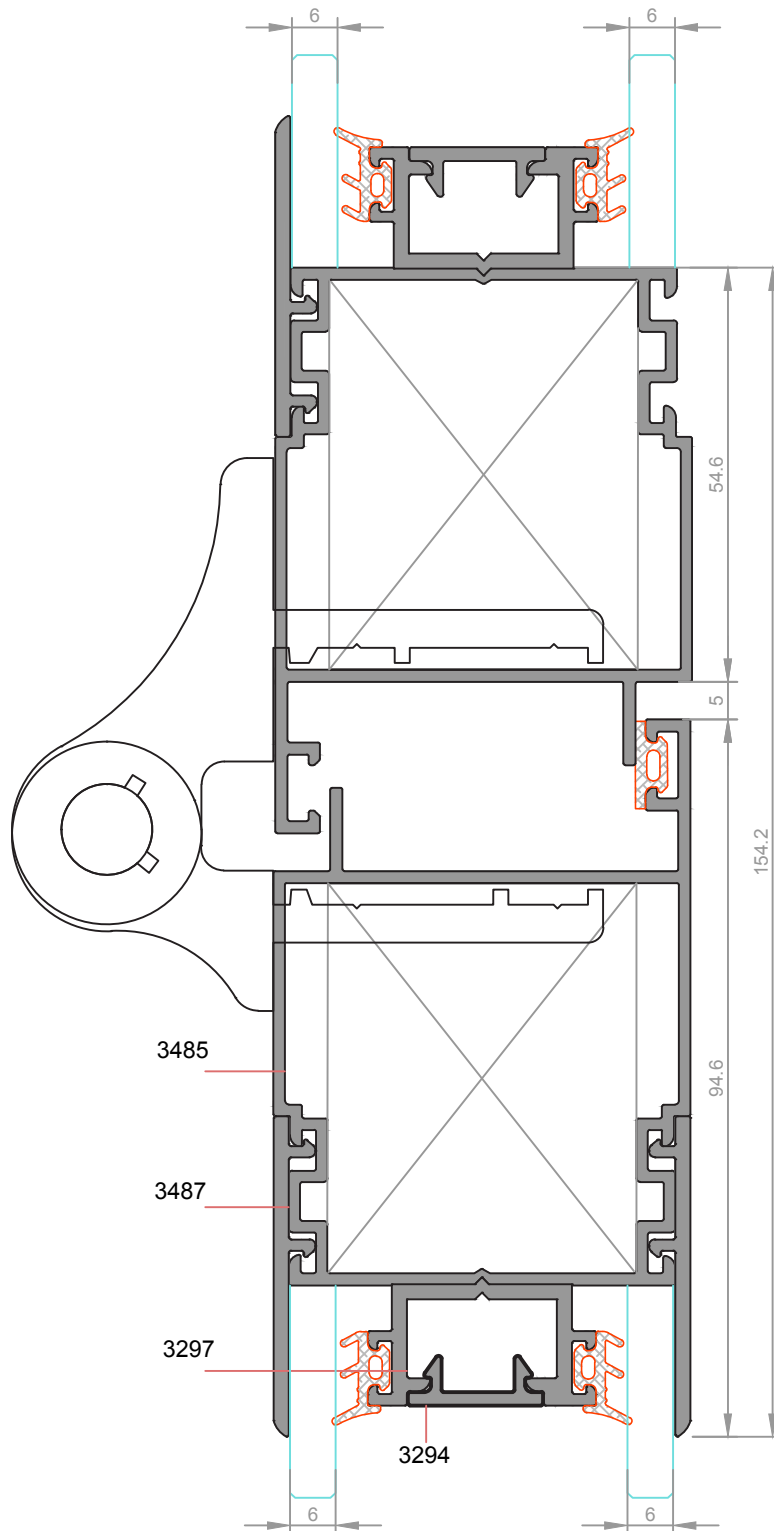


★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

DETAY-2

ÖLÇEK:1/1

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.





HİLAL
Alüminyum

PROFİL KATALOĞU

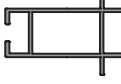
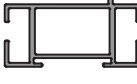
VİTRİN PROFİLLERİ

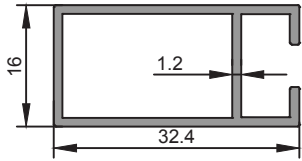
SHOWCASE PROFILE

★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

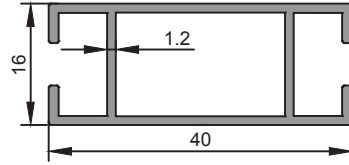
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1399	...	0,540 kg/m	...	...	
	1143	...	0,665 kg/m	...	...	
	1061	...	0,572 kg/m	...	...	
	1052	...	0,727 kg/m	...	...	
	1246	...	0,727 kg/m	...	...	
	1802	...	0,768 kg/m	...	...	
	1803	...	0,740 kg/m	...	...	
	1100	...	0,655 kg/m	...	...	
	1051	...	0,606 kg/m	...	...	
	1101	...	0,935 kg/m	...	...	



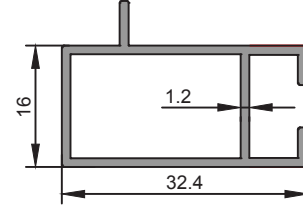
1399

0,540 kg/m



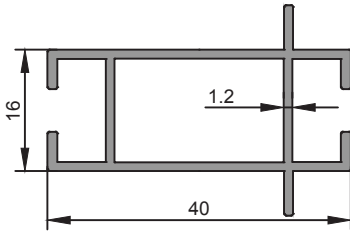
1143

0,665 kg/m



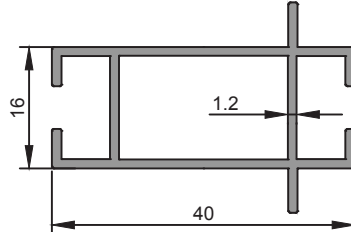
1061

0,572 kg/m



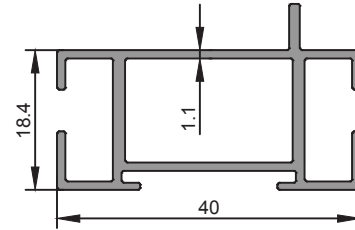
1052

0,727 kg/m



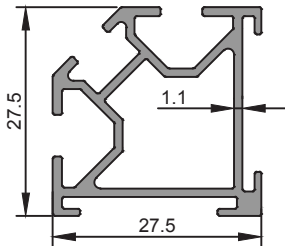
1246

0,727 kg/m



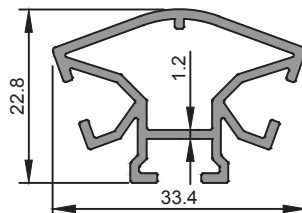
1802

0,768 kg/m



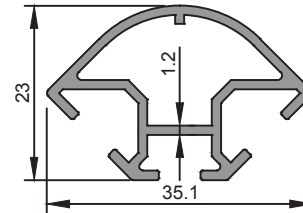
1803

0,740 kg/m



1100

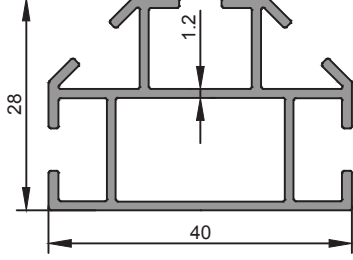
0,655 kg/m



1051

0,606 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



1101

0,935 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



HİLAL
Alüminyum

PROFİL KATALOĞU

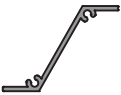
GÜNEŞ KIRICI PROFİLLER

SUNBREAKER PROFILES

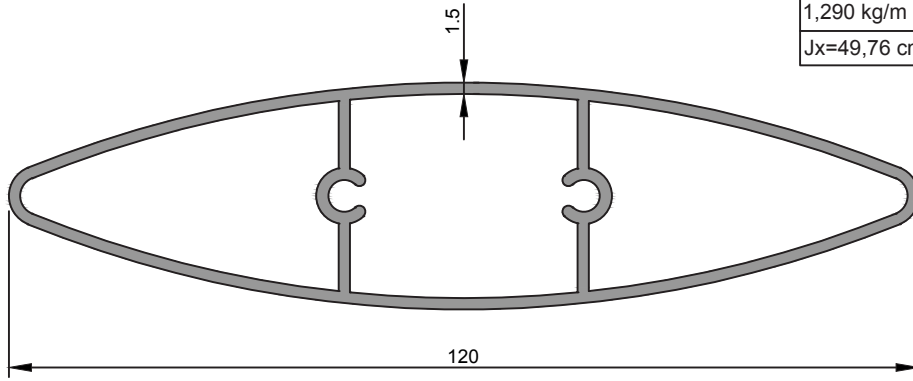
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

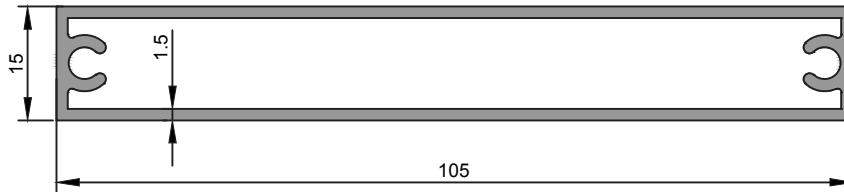
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1895	Güneş Kırıcı Profili	1,290 kg/m	49,76	4,67	
	1896	Güneş Kırıcı Profili	1,047 kg/m	47,02	1,50	
	3283	Güneş Kırıcı Lameli Profili	0,618 kg/m	33,33	0,22	
	3282	Güneş Kırıcı Dikme Profili	1,327 kg/m	48,91	11,60	
	2255	Güneş Kırıcı Profili	0,870 kg/m	29,14	0,65	
	2256	Menfez Kasa Profili	0,535 kg/m	8,10	2,16	
	1456	40'lık Menfez Lameli Profili	0,385 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

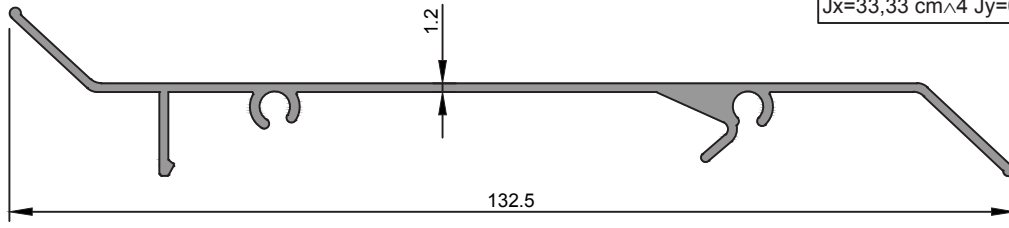


1895
Güneş Kırıcı Profili
1,290 kg/m
$Jx=49,76 \text{ cm}^4$ $Jy=4,67 \text{ cm}^4$

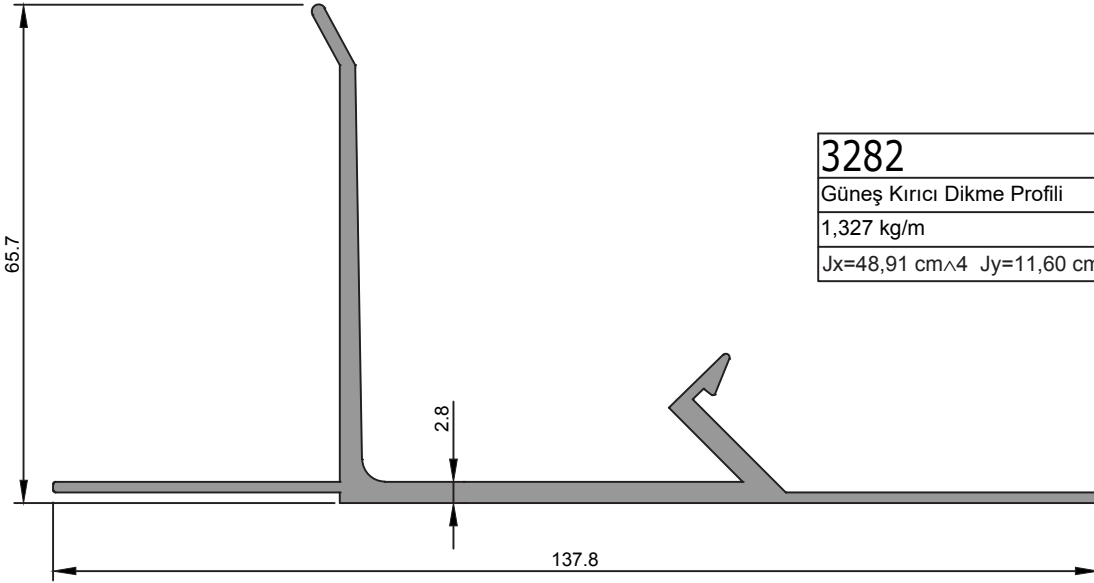


1896
Güneş Kırıcı Profili
1,047 kg/m
$Jx=47,02 \text{ cm}^4$ $Jy=1,50 \text{ cm}^4$

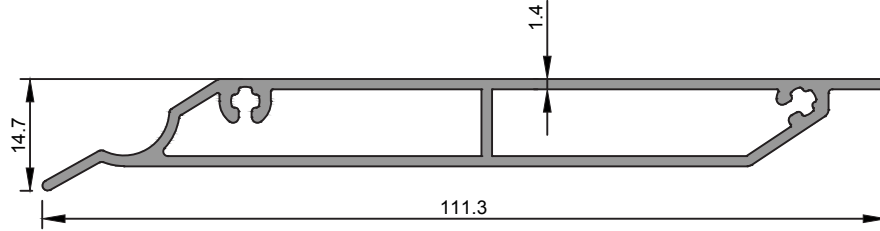
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



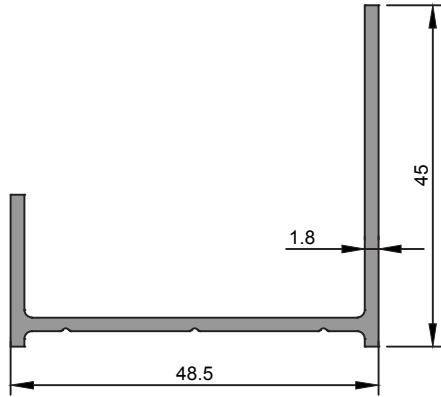
3283
Güneş Kırıcı Lameli Profili
0,618 kg/m
$Jx=33,33 \text{ cm}^4$ $Jy=0,22 \text{ cm}^4$



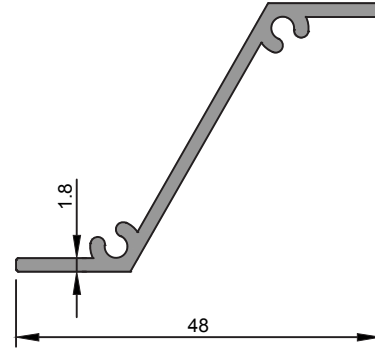
3282
Güneş Kırıcı Dikme Profili
1,327 kg/m
$Jx=48,91 \text{ cm}^4$ $Jy=11,60 \text{ cm}^4$



2255
Güneş Kırıcı Profili
0,870 kg/m
$Jx=29,14 \text{ cm}^4$ $Jy=0,65 \text{ cm}^4$



2256
Menfez Kasa Profili
0,535 kg/m
$Jx=8,10 \text{ cm}^4$ $Jy=2,16 \text{ cm}^4$



1456
40'luk Menfez Lameli Profili
0,385 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



HİLAL
Alüminyum

PROFİL KATALOĞU

ZEMİN PROFİLLER

FLOORING PROFILE

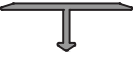
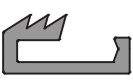
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

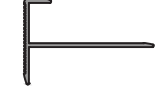
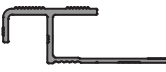
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				$J_x \text{ (cm}^4\text{)}$	$J_y \text{ (cm}^4\text{)}$	
	1822	...	0,158 kg/m	...	...	
	1253	...	0,116 kg/m	...	...	
	1752	...	0,126 kg/m	...	...	
	1254	...	0,64 kg/m	...	...	
	1572	...	1,92 kg/m	...	...	
	1774	...	0,96 kg/m	...	...	
	1746	...	0,99 kg/m	...	...	
	1031	...	0,133 kg/m	...	...	
	1795	...	0,87 kg/m	...	...	
	1475	...	0,183 kg/m	...	...	
	1295	...	0,151kg/m	...	...	
	2751	...	0,196 kg/m	...	...	
	1574	...	0,101 kg/m	...	...	
	1681	...	0,75 kg/m	...	...	

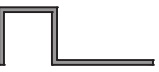
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1773	...	0,97 kg/m	...	...	
	1781	...	0,110 kg/m	...	...	
	1780	...	0,144 kg/m	...	...	
	1775	...	0,141 kg/m	...	...	
	1575	...	0,105 kg/m	...	...	
	1571	...	0,81 kg/m	...	...	
	1577	...	0,57 kg/m	...	...	
	1862	...	0,252 kg/m	...	...	
	2082	...	0,177 kg/m	...	...	
	1272	...	0,322 kg/m	...	...	
	1573	...	0,108 kg/m	...	...	
	1700	...	0,140 kg/m	...	...	
	1810	...	0,155 kg/m	...	...	
	1268	...	0,101 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	2051	...	0,216 kg/m	...	...	
	1784	...	0,130 kg/m	...	...	
	1387	...	0,137 kg/m	...	...	
	1019	...	0,162 kg/m	...	...	
	1568	...	0,85 kg/m	...	...	
	1861	...	0,250 kg/m	...	...	
	1652	...	0,168 kg/m	...	...	
	1390	...	0,424 kg/m	...	...	
	1389	...	0,225 kg/m	...	...	
	2083	...	0,232 kg/m	...	...	
	1691	...	0,272 kg/m	...	...	
	2357	...	0,341 kg/m	...	...	
	2358	...	0,163 kg/m	...	...	
	2241	...	0,226 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

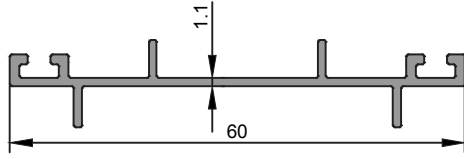
PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	2353	...	0,98 kg/m	...	...	
	2354	...	0,111 kg/m	...	...	
	2828	...	0,146 kg/m	...	...	
	2781	...	0,282 kg/m	...	...	
	2352	...	0,103 kg/m	...	...	
	2752	...	0,148 kg/m	...	...	
	1142	...	0,128 kg/m	...	...	
	1683	...	0,118 kg/m	...	...	
	1257	...	0,123 kg/m	...	...	
	1730	...	0,113 kg/m	...	...	
	1074	...	0,83 kg/m	...	...	
	1823	...	0,121 kg/m	...	...	
	1552	...	0,103 kg/m	...	...	
	1397	...	0,118 kg/m	...	...	

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1757	...	0,101 kg/m	...	...	
	1917	...	0,144 kg/m	...	...	
	1651	...	0,156 kg/m	...	...	
	1660	...	0,155 kg/m	...	...	
	1602	...	0,158 kg/m	...	...	
	1570	...	0,138 kg/m	...	...	
	1576	...	0,134 kg/m	...	...	
	1777	...	0,116 kg/m	...	...	
	1793	...	0,104 kg/m	...	...	
	1783	...	0,108 kg/m	...	...	
	1782	...	0,101 kg/m	...	...	
	1616	...	0,142 kg/m	...	...	
	1274	...	0,138 kg/m	...	...	
	1032	...	0,162 kg/m	...	...	

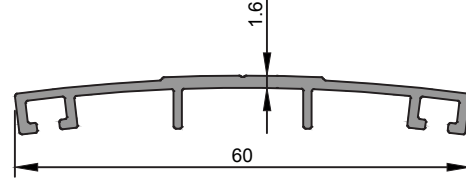
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

[illegible]



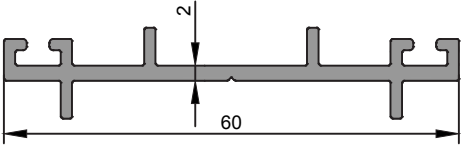
1755

0,290 kg/m



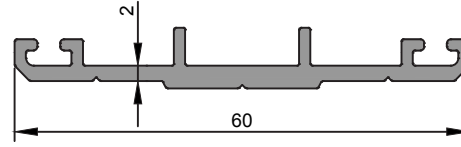
1756

0,319 kg/m



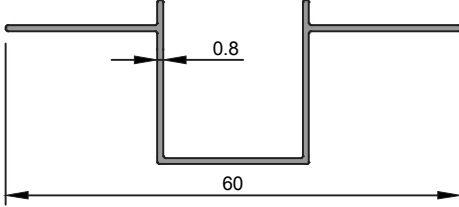
1121

0,486 kg/m



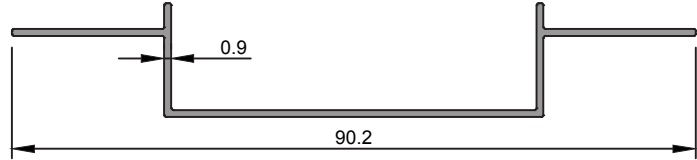
1222

0,490 kg/m



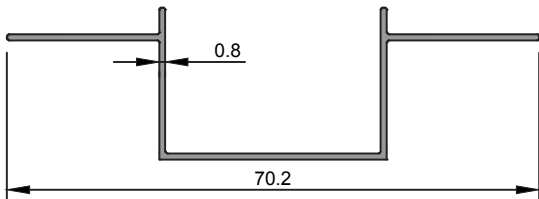
1831

0,220 kg/m



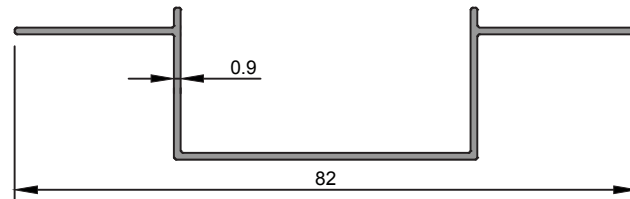
1834

0,288 kg/m



1832

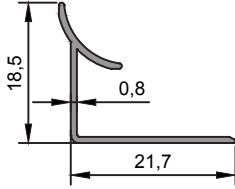
0,235 kg/m



1833

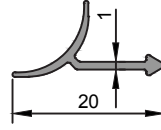
0,293 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



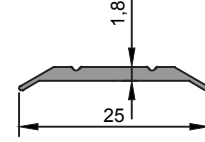
1574

0,101 kg/m



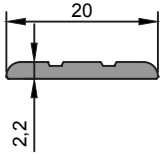
1681

0,75 kg/m



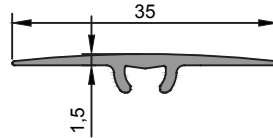
1773

0,97 kg/m



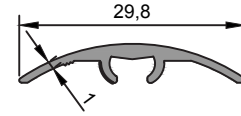
1781

0,110 kg/m



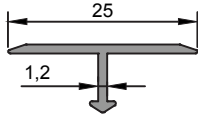
1780

0,144 kg/m



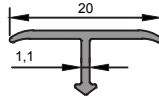
1775

0,141 kg/m



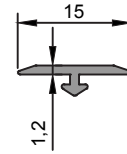
1575

0,105 kg/m



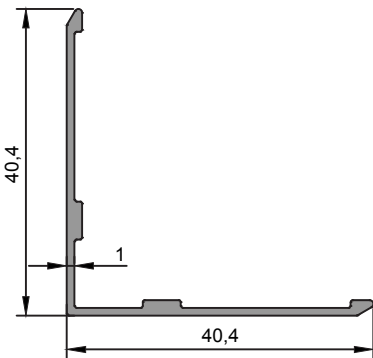
1571

0,81 kg/m



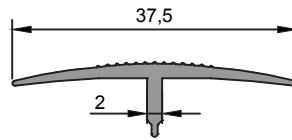
1577

0,57 kg/m



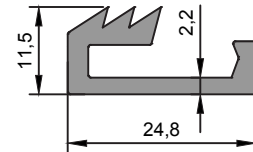
1862

0,252 kg/m



2082

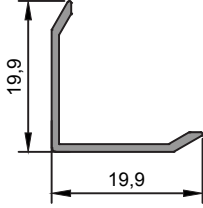
0,177 kg/m



1272

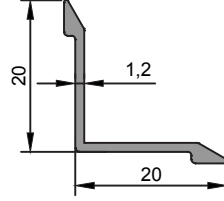
0,322 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



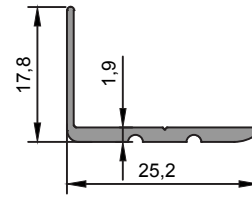
1573

0,108 kg/m



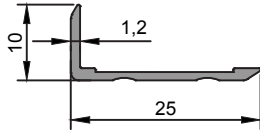
1700

0,140 kg/m



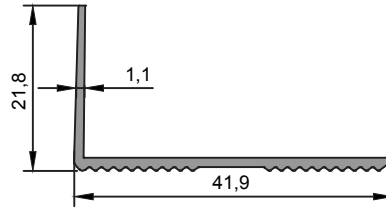
1810

0,155 kg/m



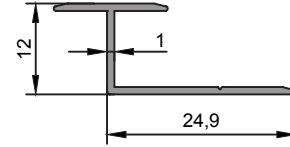
1268

0,101 kg/m



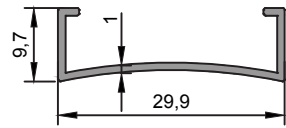
2051

0,216 kg/m



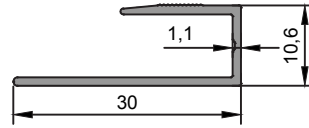
1784

0,130 kg/m



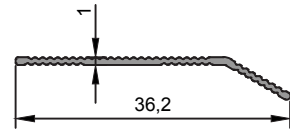
1387

0,137 kg/m



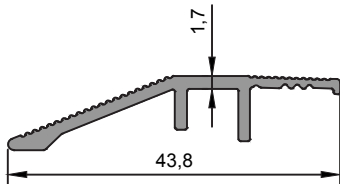
1019

0,162 kg/m



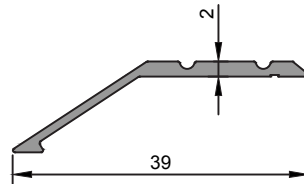
1568

0,85 kg/m



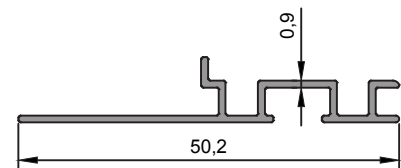
1861

0,250 kg/m



1652

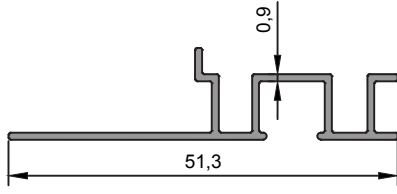
0,168 kg/m



1390

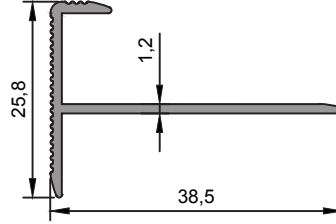
0,424 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



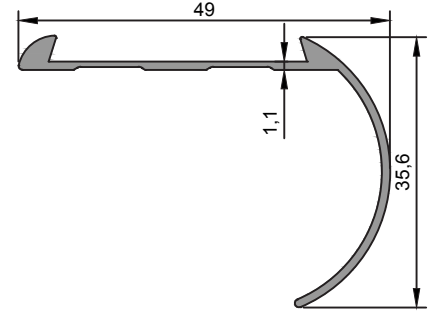
1389

0,225 kg/m



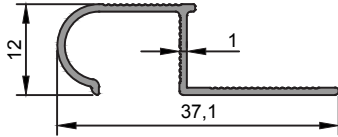
2083

0,232 kg/m



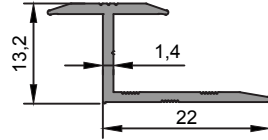
1691

0,272 kg/m



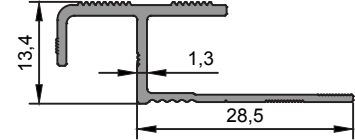
2357

0,341 kg/m



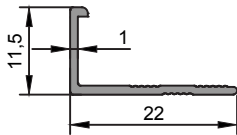
2358

0,163 kg/m



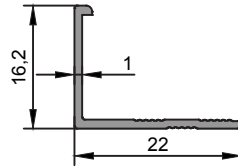
2241

0,226 kg/m



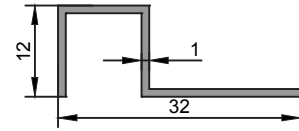
2353

0,98 kg/m



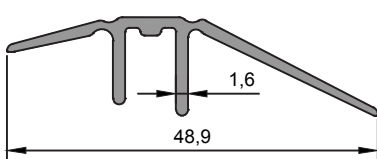
2354

0,111 kg/m



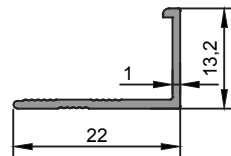
2828

0,146 kg/m



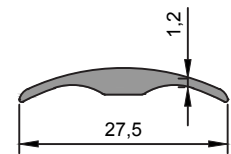
2781

0,282 kg/m



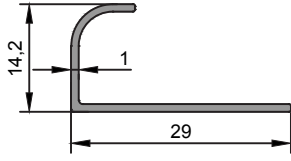
2352

0,103 kg/m



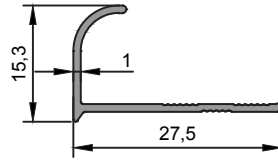
2752

0,148 kg/m



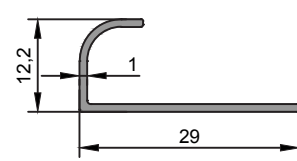
1142

0,128 kg/m



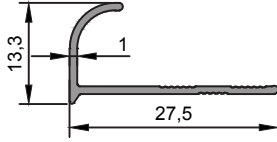
1683

0,118 kg/m



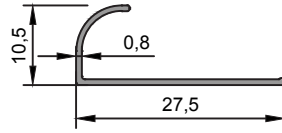
1257

0,123 kg/m



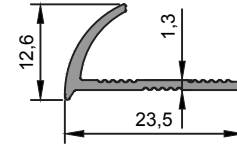
1730

0,113 kg/m



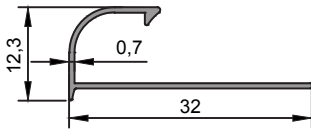
1074

0,83 kg/m



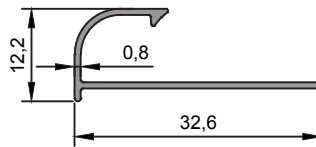
1823

0,121 kg/m



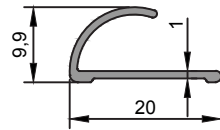
1552

0,103 kg/m



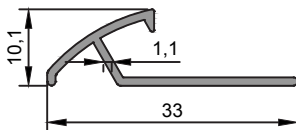
1397

0,118 kg/m



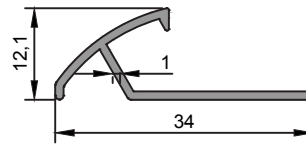
1757

0,101 kg/m



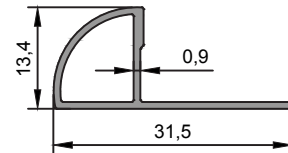
1617

0,144 kg/m



1651

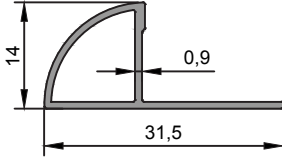
0,156 kg/m



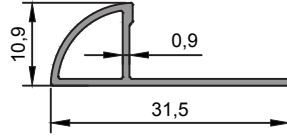
1660

0,155 kg/m

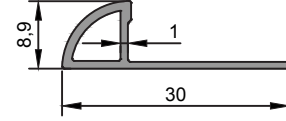
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.


1602

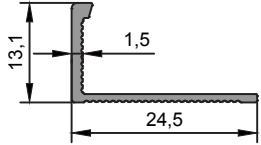
0,158 kg/m


1570

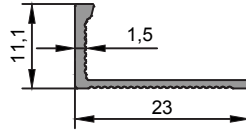
0,138 kg/m


1576

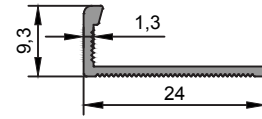
0,134 kg/m


1777

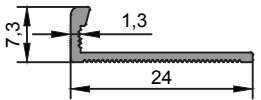
0,116 kg/m


1793

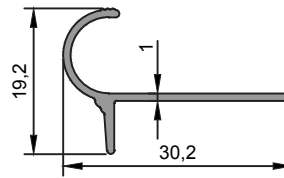
0,104 kg/m


1783

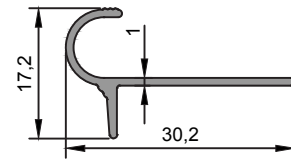
0,108 kg/m


1782

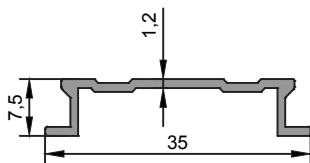
0,101 kg/m


1616

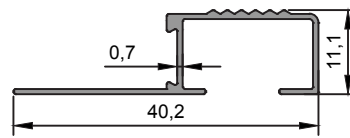
0,142 kg/m


1274

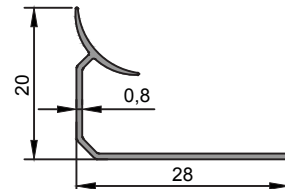
0,138 kg/m


1032

0,162 kg/m

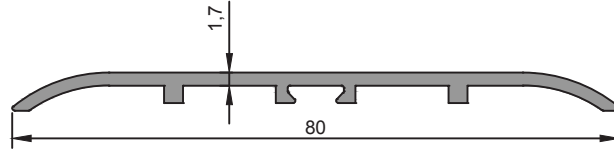

1380

0,146 kg/m


1229

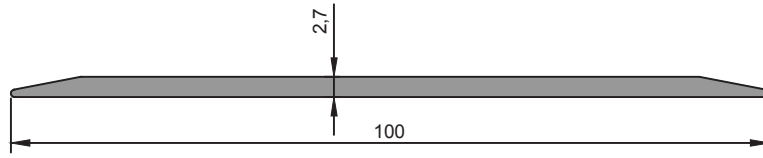
0,106 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



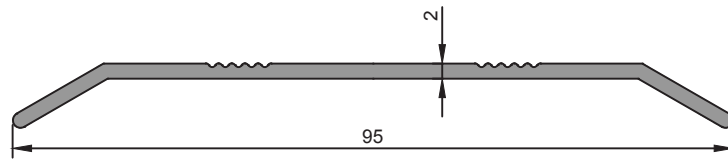
1669

0,424 kg/m



1320

0,686 kg/m



1792

0,519 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



HİLAL
Alüminyum

PROFİL KATALOĞU

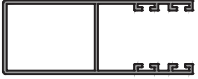
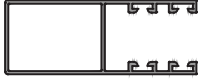
PANJUR PROFİLLERİ

SHUTTER PROFILES

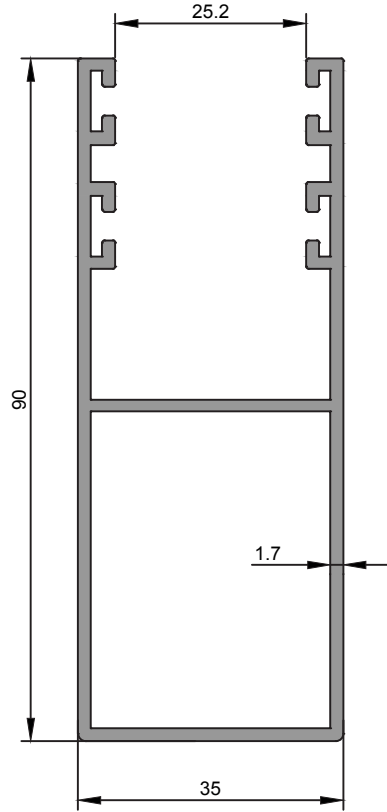
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1324	Panjur Profili	1,296 kg/m	...	...	
	1686	Panjur Profili	1,133 kg/m	...	...	
	1323	Panjur Profili	0,880 kg/m	...	...	
	1322	Panjur Profili	0,591 kg/m	...	...	
	1325	Panjur Profili	0,409 kg/m	...	...	
	1685	Panjur Profili	0,588 kg/m	...	...	
	1138	Panjur Profili	0,580 kg/m	...	...	
	1326	Panjur Profili	0,585 kg/m	...	...	
	1558	Panjur Profili	0,601 kg/m	...	...	
	1327	Panjur Profili	0,451 kg/m	...	...	
	1562	Panjur Profili	0,353 kg/m	...	...	
	1556	Panjur Profili	0,381 kg/m	...	...	

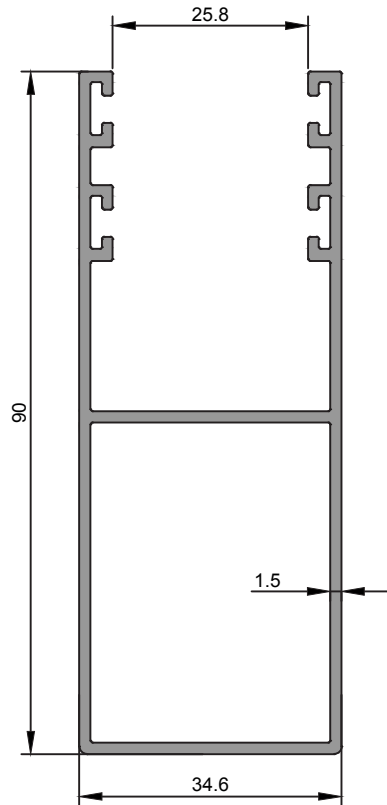
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



1324

Panjur Profili

1,296 kg/m

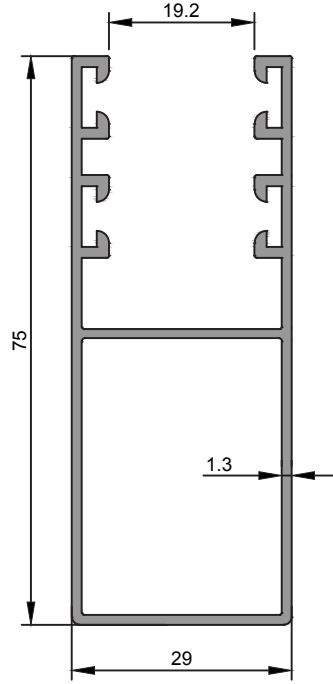


1686

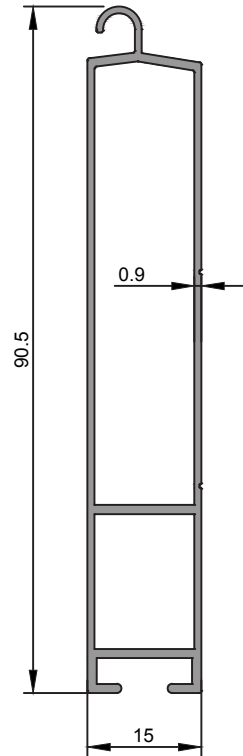
Panjur Profili

1,133 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

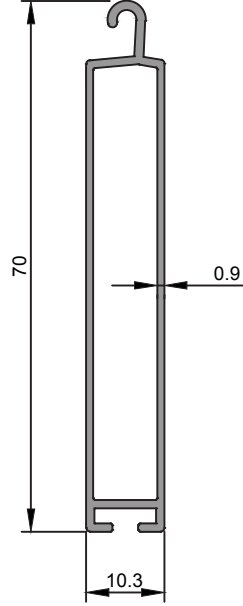


1323
Panjur Profili
0,880 kg/m

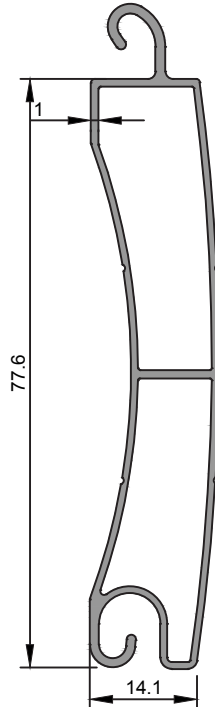


1322
Panjur Profili
0,591 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

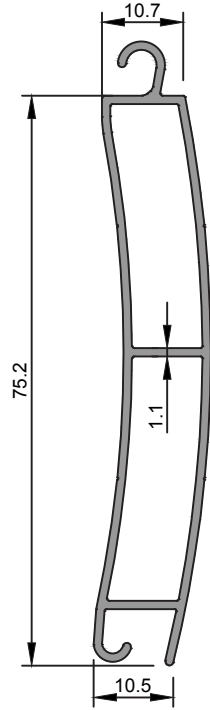


1325
Panjur Profili
0,409 kg/m

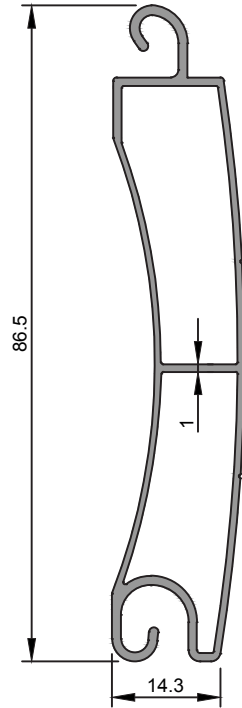


1685
Panjur Profili
0,588 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

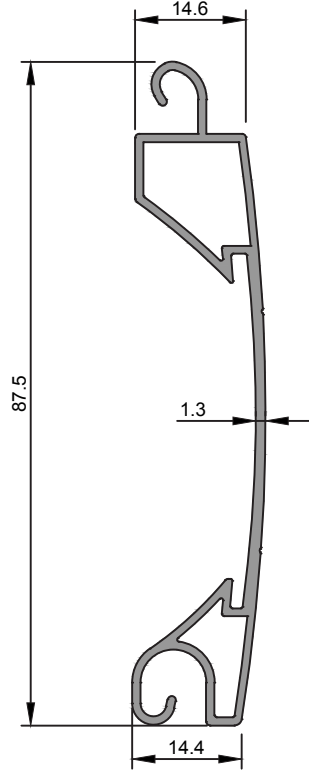


1138
Panjur Profili
0,580 kg/m

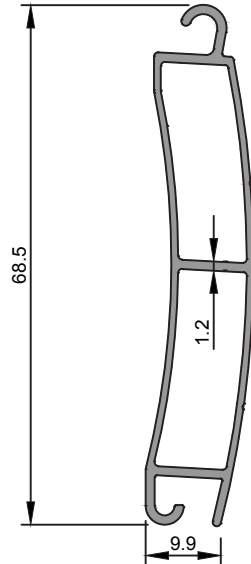


1326
Panjur Profili
0,585 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

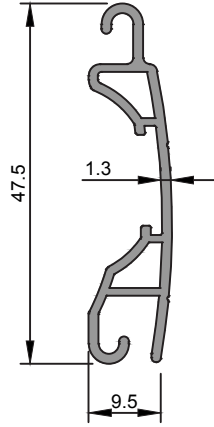


1558
Panjur Profili
0,601 kg/m

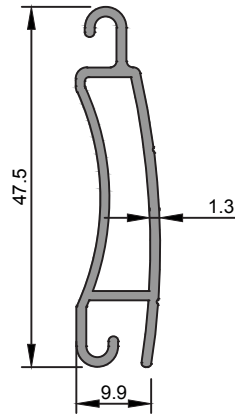


1327
Panjur Profili
0,451 kg/m

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



1562
Panjur Profili
0,353 kg/m



1556
Panjur Profili
0,381 kg/m



HİLAL
Alüminyum

PROFİL KATALOĞU

DENİZLİK SÜPÜRGELİK PROFİLLERİ

WINDOWSILL , SKIRTING PROFILES

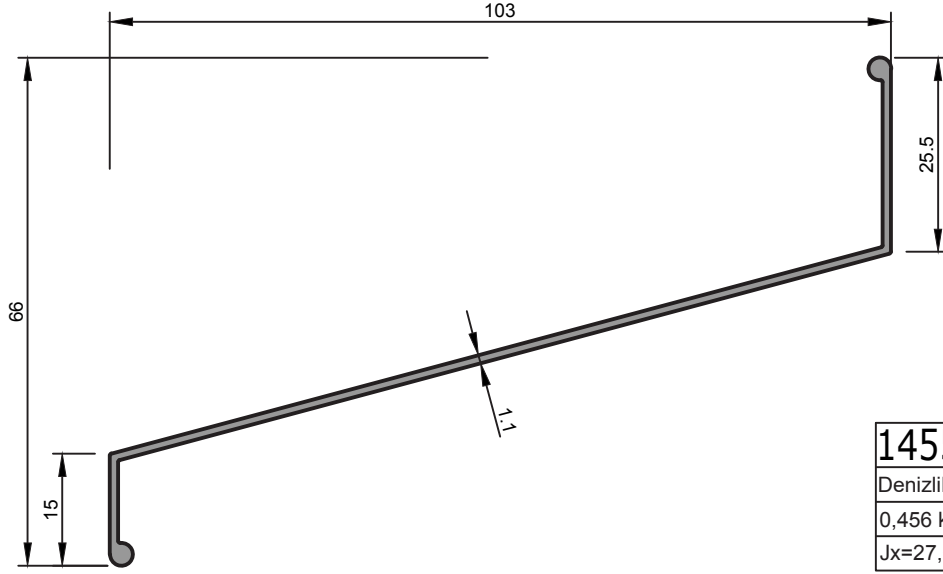
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

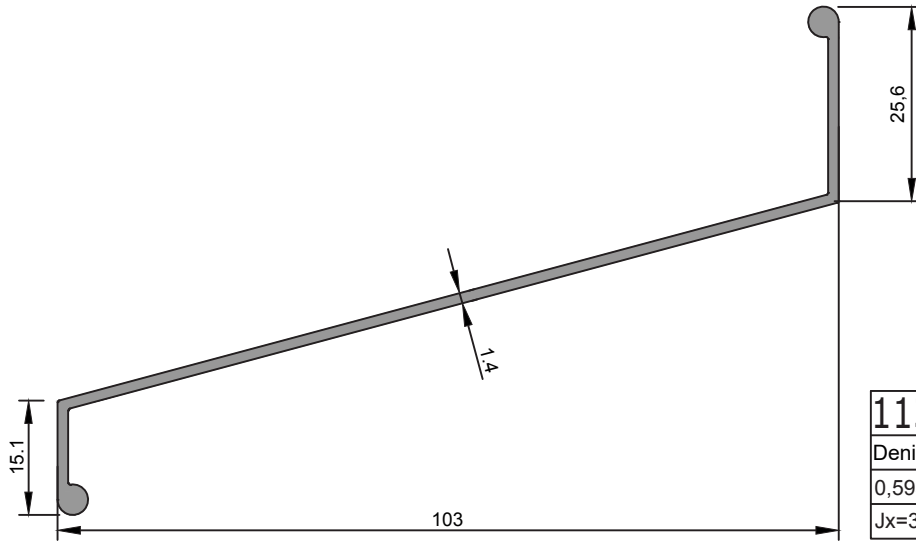
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

PROFİL KESİTİ	PROFİL KODU	PROFİL ADI	AĞIRLIK	ATALET MOMENTLERİ		SAYFA NO
				J_x (cm ⁴)	J_y (cm ⁴)	
	1455	...	0,456 kg/m	27,02	0,49	
	1136	...	0,593 kg/m	35,69	0,68	
	1653	...	0,276 kg/m	3,33	0,02	
	1778	...	0,201 kg/m	1,13	0,02	
	1779	...	0,364 kg/m	8,11	0,02	
	1205	...	0,375 kg/m	3,88	0,18	
	1786	...	0,420 kg/m	8,90	0,24	
	1785	...	0,328 kg/m	3,64	0,18	
	1206	...	0,120 kg/m	0,11	0,04	

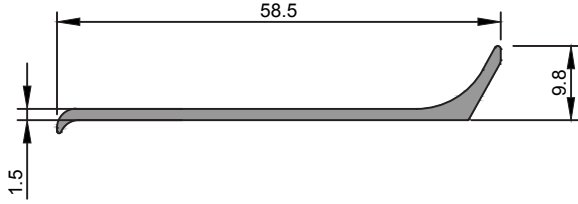
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



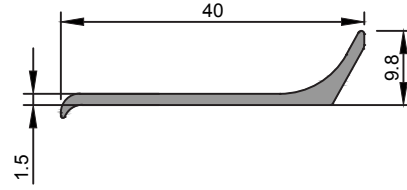
1455
Denizlik Süpürgelik Profili
0,456 kg/m
$Jx=27,02 \text{ cm}^4$ $Jy=0,49 \text{ cm}^4$



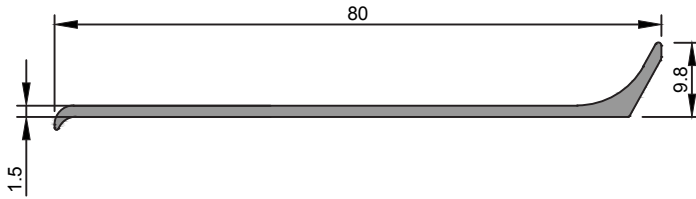
1136
Denizlik Süpürgelik Profili
0,593 kg/m
$Jx=35,69 \text{ cm}^4$ $Jy=0,68 \text{ cm}^4$



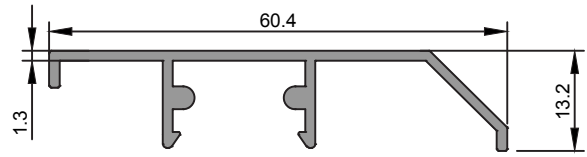
1653
Denizlik Süpürgelik Profili
0,276 kg/m
$Jx=3,33 \text{ cm}^4$ $Jy=0,02 \text{ cm}^4$



1778
Denizlik Süpürgelik Profili
0,201 kg/m
$Jx=1,13 \text{ cm}^4$ $Jy=0,02 \text{ cm}^4$



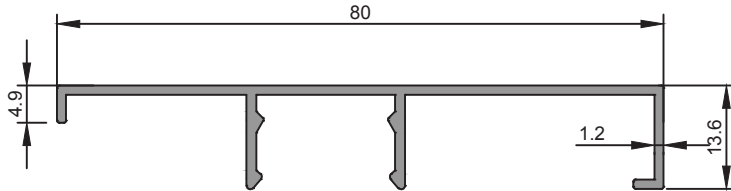
1779
Denizlik Süpürgelik Profili
0,364 kg/m
$Jx=8,11 \text{ cm}^4$ $Jy=0,02 \text{ cm}^4$



1205
Denizlik Süpürgelik Profili
0,375 kg/m
$Jx=3,88 \text{ cm}^4$ $Jy=0,18 \text{ cm}^4$

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

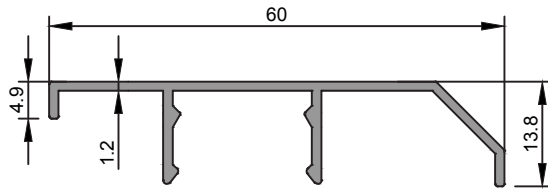


1786

Denizlik Süpürgelik Profili

0,420 kg/m

$J_x=8,90 \text{ cm}^4$ $J_y=0,24 \text{ cm}^4$

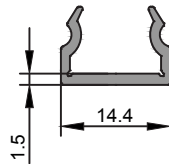


1785

Denizlik Süpürgelik Profili

0,328 kg/m

$J_x=3,64 \text{ cm}^4$ $J_y=0,18 \text{ cm}^4$



1206

Denizlik Süpürgelik Profili

0,120 kg/m

$J_x=0,11 \text{ cm}^4$ $J_y=0,04 \text{ cm}^4$



HİLAL
Alüminyum

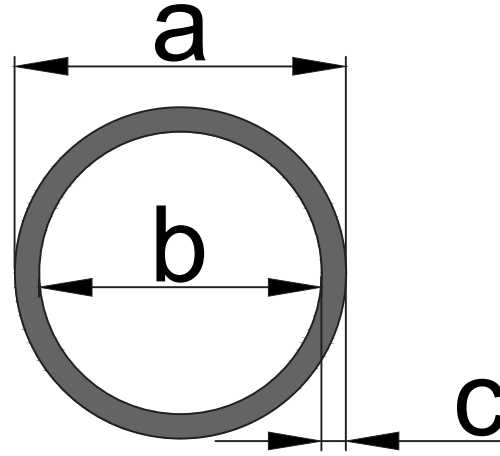
PROFİL KATALOĞU

BORU PROFİLLERİ

PIPE PROFILES

★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*

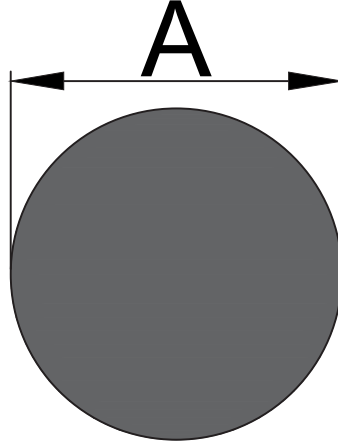


★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

No	a	b	c	gr/m
1835	11,95	10,15	0,9	85
1540	12	10,1	0,95	89
1763	12	10,2	0,9	85
1525	12,8	10,4	1,2	244
1011	16	12	2	228
1063	16	13	1,5	185
1172	16	6	5	468
1308	16	8	4	409
1606	16	13,6	1,2	151
1804	16	14	1	128
1195	17	8,5	4,5	479
1006	18,4	16,4	1	148
1171	19,4	16,4	1,5	228
1220	20	12	4	545
1555	20	18	1	163
1863	20	18,1	0,95	154
2042	20	17	1,5	236
1146	24	18	3	536
2092	24	22	1	196
1281	24,5	18	3,25	588
1200	25	18	3,5	640
1419	25	23	1	204
1864	25	23,1	0,95	195
2041	25	22	1,5	300
2195	25	20	2,5	479
1048	30	24	3	690
1173	30	26	2	477
1215	30	10	10	1702

No	a	b	c	gr/m
1218	30	22	4	885
1418	30	28	1	246
1865	30	28,1	0,95	235
2193	30	23	3,5	789
1318	45	20,2	12,4	3441
1416	45	35	2	1703
1674	45	8	18,5	4174
2150	55	51	2,0	902
2736	35	31	2,0	562
2641	35	32	1,5	427
2640	35	32,4	1,30	373
2639	19	17	1,00	153
2569	38	35	1,50	466
1837	45	39	3	1072
1603	48	46	1	400
2068	49	27	11	3558
1046	50	45	2,5	1010
1047	50	45	2	1011
1417	50	40	5	1916
2025	50	46,7	1,65	679
2026	50	45,8	2,1	856
1054	50	47	1,5	620
2078	50,5	45	2,75	1118
1346	53	41	6	2400
1673	53	30	11,5	4061
1004	54	50,4	1,8	800
1076	58	20,4	18,8	6274
2495	50	47,4	1,30	539

No	a	b	c	gr/m
1679	60	54	3	1456
1980	60	56,4	1,8	891
1672	70	40,3	14,+7	6973
2000	70	67	1,5	874
2094	70	67,4	1,3	760
1331	80	74	3	1967
1053	40,2	10	15,1	3227
1104	39	30,4	4,3	1270
1147	60	55	2,5	1224
1169	40	36	2	647
1526	10	4	3	179
1541	10	8	1	77
1604	32	30	1	263
1738	32	26	3	1740
1739	45	42,6	1,2	447
1805	8	6	1	59
1836	9,7	8	0,85	64
1926	40	35	2,5	798
1836	8	5	1,5	83
2194	35	29	3	817
1929	8	5	1,5	83
1904	53	8	22,5	5842
2895	20	14	3	434
2928	25	10	7,2	1117
1363	49,9	46,4	1,75	717
2519	19	16,6	1,20	181
3459	32	25	3,5	848
2736	35	31	2	562
1054	50	47	1,5	620



No	a	gr/m
1776	10	213
1212	16	545
1799	16	545
1381	18	689
1198	19,8	834
1234	22	1030
1197	24,95	1330
1328	30	1915
1329	35	2607
1165	41	3571
1167	51	5536
1282	55	6438
1166	60,5	7790
1227	65,5	9131
2786	16,3	566
2711	4,3	43
2451	6	77
2480	4,9	43

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



HİLAL
Alüminyum

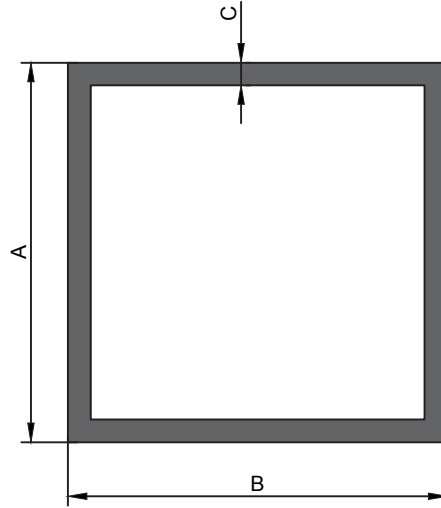
PROFİL KATALOĞU

DİKDÖRTGEN VE KARE PROFİLLER

RECTANGULAR AND SQUARE PROFILES

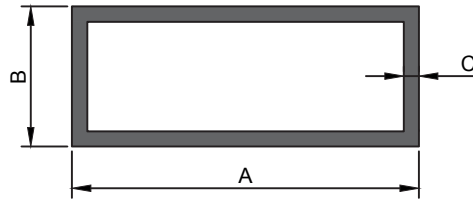
★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*



No	A	B	C	gr/m
1196	10	10	1,8	160
1737	12	12	1	119
1992	15	15	2	282
1990	20	20	2	390
1400	20	20	2,1	407
2151	22	22	2	434
1642	25	25	2	499
2578	25	25	1,2	310
1471	30	30	2	607
1352	35	35	1,2	440
1362	40	40	0,8	340
1068	40	40	1,1	464
1344	40	40	2	824
2415	60	60	1,4	889
3123	39,7	39,7	0,8	237
1465	50	50	2	1040
2939	80	80	2	1691

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



No	A	B	C	gr/m
1420	20	10	1	152
1614	20	10	1,2	180
1069	25	17	1,2	258
1513	25	17	2	412
1400	20	20	1,9	579
1066	40	20	1,2	375
1022	60	20	2	624
1624	80,2	20,2	0,86	453
1433	100	20	0,95	608
1869	100	25	1,3	862
2280	100	25	1,8	1184
1991	40	30	2	715
1415	50	30	2	824
1887	50	30	3	1185
1680	60	30	2	932
1426	70	32	0,8	435
1056	75	32	1,2	680
2421	45	35	1,75	726
1353	50	35	1,2	537
1067	50	40	1,2	570
1410	50	40	1,5	707
2414	95	50	1,5	1154
2423	80	75	1,5	1236
2555	30	20	2	499
2826	80	60	2	1142

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



HİLAL
Alüminyum

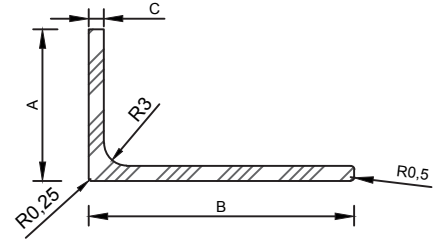
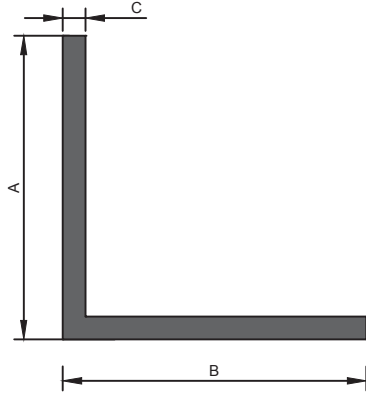
PROFİL KATALOĞU

KÖŞEBENT, T, U VE LAMA PROFİLLERİ

KÖŞEBENT, T, U AND FLAT BAR PROFILES

★ Profil Ağırlıkları Teorik Olup Teslim Anındaki Ağırlık Geçerlidir

★ *Weight of profiles are theoretical, net weight will valid at the time of delivery.*



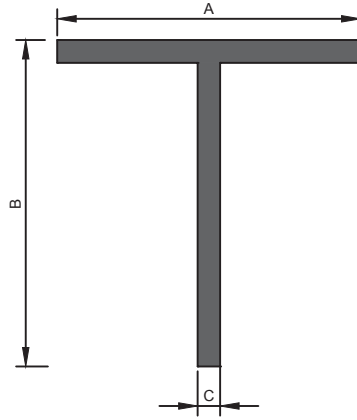
★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

No	A	B	C	gr/m
1772	10	10	1,2	0,61
1127	10	15	1,2	0,77
1771	10	20	1,2	0,94
2300	10	20	2	0,152
1036	14	22	2,4	0,219
1693	15	15	1,4	0,109
1806	15	15	1,5	0,116
2427	15	15	3	0,220
1113	19	30	1,2	0,142
1313	20	19	0,8	0,81
1258	20	20	0,8	0,85
1128	20	20	1,2	0,126
1341	20	20	2	0,206
1342	20	25	2	0,233
1796	20	30	1	0,133
1350	20	30	2	0,260
1769	20	40	1	0,160
1112	20	40	1,2	0,191
1539	20	40	2	0,314
1707	20	53,2	2	0,386
1111	20	60	1,2	0,256
2416	20	80	1,5	0,400
1137	15	15	1,2	0,93

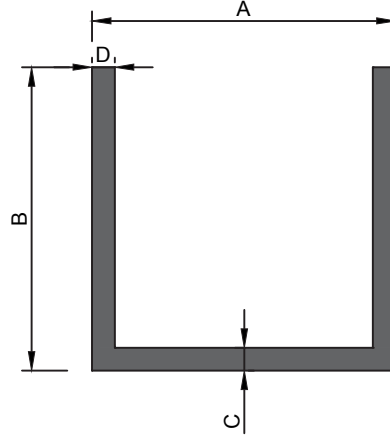
No	A	B	C	gr/m
1105	20	60	1,5	320
1247	25	25	0,8	107
1129	25	25	1,2	159
1514	25	25	2	260
1037	25	25	2,4	310
1706	27,7	53,2	2	427
1250	30	30	0,8	128
1110	30	30	1,2	191
1466	30	30	2	314
1343	30	30	3	463
2534	30	30	1,5	238
1829	30	50	3	626
1108	40	40	1,2	256
1107	40	40	2	422
1114	40	40	4	823
1115	40	60	2	531
2028	40	60	2,5	660
1109	50	50	1,5	398
2283	50	50	3	788
1106	50	50	5	1287
1839	50	85	4	1420
2768	50	20	1,2	224

No	A	B	C	gr/m
1365	54	60	3	907
1367	54	80	3	1070
1370	54	100	3	1230
1369	54	120	3	1395
1748	25	50	1,8	356
1368	25	50	2	395
3432	33	20	1	141
3425	35	25	2	315
3426	25	40	2	342
2518	25	25	1	258
2538	50	35	4	878
2512	80	120	2	1073
2511	50	50	2	531
2510	25	50	2	396
2305	20	20	2	203

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.

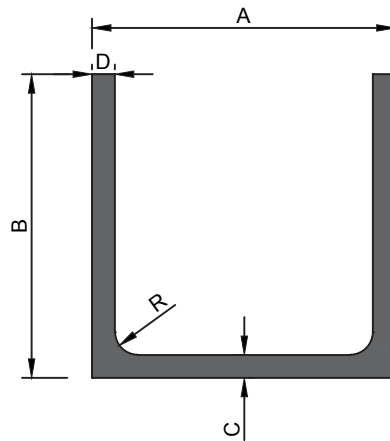


No	A	B	C	gr/m
1123	20	20	1,5	157
1125	20	20	2	206
1124	25	25	2	260
1126	30	30	1,2	191
1564	30	30	1,5	238
1635	30	30	3	463
1639	50	50	2	531
1797	100	60	2	856
2029	100	60	2,5	1067
1809	110	30	2	748
2455	110	50	2	833
2509	100	52	2	813



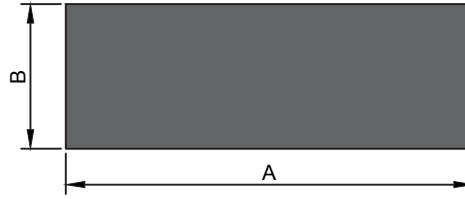
No	A	B	C	D	gr/m
1018	8	19,9	1	1	122
1294	10	20	0,8	0,8	105
1807	13	15	1,5	1,5	163
1949	15	23,5	1,6	1,6	255
1201	25	20	1,2	1,2	203
1629	42	5	1	1	190
1791	48	18,8	1	1	226
1790	50	20	1	1	238
1145	8,2	8,1	0,9	0,9	55
1894	50	50	3	3	1170
1788	69	18,8	1	1	283
3191	21	25	1,2	1,2	223
2777	111	30	2	3	1138
2567	40	20	2	2	412
2247	40	30	1,5	1,5	394

No	A	B	C	D	gr/m
1789	70	20	1	1	292
1634	40	30	2	2	667
1950	50	30	3	3	255
2242	105	11	2	2	661
2301	26	8	2	2	206
2443	20	20	1,5	1,5	233
2537	40	40	4	4	1214
2606	9,8	6	1	1	54
2780	17	17	1,1	1,1	145
2789	14,8	9,4	1,6	1,6	131



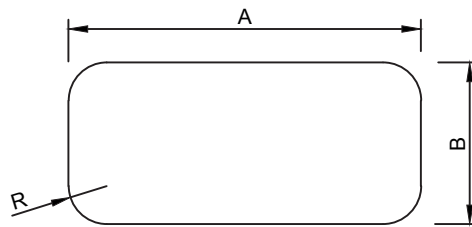
No	A	B	C	D	R	gr/m
3333	23	20	25	25	2	422

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



No	A	B	gr/m
1770	10	2	54
1140	15	2,5	102
1958	17	8	369
1029	19,5	4,5	238
1055	20	3	163
2288	20	2	108
1648	20	20	1084
1729	25	25	1694
2282	30	3	244
1938	30	5	407
1959	30	8	650
1351	34	4,8	440
1450	34	3	275
1321	40	3	325
3205	28	23	1745

No	A	B	gr/m
1703	40	5	542
1030	44	10	1192
2366	45	2	244
1448	50	6	813
2424	50	1,5	203
2492	60	1,3	211
1973	60	5	813
2196	70	1,5	285
2425	70	1,6	304
1702	70	8	1518
2888	80	1,4	304
2889	100	1,5	407
1519	100	4	1084
1509	100	5	1355



No	A	B	R	gr/m
2529	1485	9.9	1	314

★ Yandaki profil birim ağırlıkları, bilgisayarda hesaplanmış teorik ağırlıklardır.



HİLAL
Alüminyum



HİLAL
Alüminyum

STANDART SERİLER STANDARD SERIES

38 YEARS
EXPERIENCE



HİLAL ALÜMİNYUM MERKEZ OFİS HEAD OFFICE

📍 Hürriyet Mah. Dr. Cemil Bengü Cad. No:62
Kağıthane • İstanbul • Türkiye
☎ 0 212 224 25 70
☎ 0 212 225 18 91
✉ export1@hilal.com.tr ✉ hilal@hilal.com.tr 🌐 www.hilal.com.tr

HİLAL ALÜMİNYUM FABRİKA FACTORY

📍 Edirne Organize Sanayi Bölgesi 5. Cad. No: 11 - 8 Domurcalı • Süloğlu • Edirne • Türkiye
☎ 0 284 316 23 59 - 60 ☎ 0 284 316 23 58 ✉ imalat@hilal.com.tr

HİLAL ALÜMİNYUM DEPO WAREHOUSE

📍 ALKOP Alüminyumcular Sitesi B7 Blok No:7 Hadımköy • İstanbul • Türkiye
☎ 0 212 224 25 68 ✉ hilal@hilal.com.tr

WHATSAPP DESTEK HATTI WHATSAPP SUPPORT LINE

Yurtiçi Domestic +90 544 523 25 74
Yurtdışı International +90 551 213 57 18



PROFİL KATALOĞU

STANDART SERİLER



HİTA
Alüminyum

