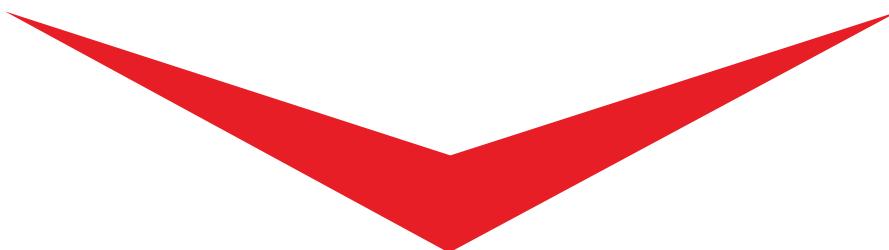




F50-ENERGY

YÜKSEK YALITIMLI GİYDİRME CEPHE SİSTEMİ
HIGH INSULATED CURTAIN WALL SYSTEM



KATALOGDA BULUNAN MARKA VE ÜRÜNLER, SİSTEM ALÜMİNYUM SAN. VE TİC. A.Ş. BÜNESİNDE OLUŞTURULMUŞ FİKİR ESERLERİ OLUP TÜRK PATENT ENSTİTÜSÜ TARAFINDAN TESCİLLENMİŞTİR. HİÇ BİR SURETLE İZİNSİZ ÜRETİLEMEZ VEYA ÇOĞALTILAMAZ.

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Sistem Al
A L Ü M İ N Y U M



SİSTEM ALÜMİNYUM SAN. VE TİC. A.Ş., 1994 yılında 1 adet 210 ton/ay 800 tonluk kapasitesiyle İstanbul Merter'de 750 m²'lik alanda alüminyum profil imalatına başlamıştır. 1998 yılına kadar burada imalatına devam eden firma daha sonra İstanbul Hadımköy'deki yerine taşınmıştır. Yeni anlayış içerisinde, 2013 yılında Çorlu'da **300.000 m²** üzerine kurulan **70.000 m²**lik kapalı alanda yeni yerinde günün koşullarına göre modernize edilen tesisimiz, 1.100 ton/ay kapasiteli 2.750 tonluk presimizin ilavesi ile yıllık üretim kapasitesini **50.000 ton/yıl** çıkarmıştır. Sistem Alüminyum kalıp üretiminden başlayıp ekstrüzyon imalatı, elektrostatik toz boyası, ahşap kaplama, eloksal, mekanik işlem, kompozit panel imalatı ve nihai uygulamaları bünyesinde bulunduran entegre bir tesistir.

Kalıphanemiz; CNC işleme merkezleri, modern tezgâhlar ve kalifiye elemanlarla mevcut üretimimizi desteklemektedir. Müşteri özel profillerinin kalıp üretimi de modern ekipmanlarla burada gerçekleştirilmektedir. **18.500** çesidin üzerinde ürün yelpazesi ile sektöründeki yerini her geçen gün daha da güçlendirmektedir.

Yıllık kapasitesi **19.000** ton olan Statik Toz Boya Tesisimizde standart RAL renklerinin yanı sıra müşterimizin özel renk talepleri de karşılanmaktadır. Çorlu'da devreye alınan yeni boyahane ünitemizle 8000 mm boyaya sahip profiller proses edilebilmektedir. 2006 yılında devreye alınan Eloksal Tesisimiz ilave olarak Çorlu'da devreye alınan son teknolojiye sahip, müşteri özel renklerinin de çalışıldığı yeni eloksal tesisimizle birlikte **yıllık kapasitesi 24.000 ton/yıl** ulaşmıştır. Alternatif yüzey kaplaması olarak 2010 yılında faaliyete geçen Ahşap Transfer Kaplama bölümümüzde özel renk ve desen çalışmaları yapılmaktadır. 2010 yılında kurulan Mekanik İşlem Merkezimizle müşterilerimizden gelen talepler doğrultusunda profil yüzeyine delme, havşalı delme, boşaltma, CNC işlemleri, hassas kesim, açılı kesim, punch ile delme, matkapla delme, filit v.b. işlemleri uygulanabilmektedir.

Üretim kapasitesinin büyük bölümünü ihracata ayıran firmamız yurt içinde de aynı kalitede hizmet vermektedir. Bu amaçla tümüyle kendi imkân, teknoloji ve **AR-GE** çalışmaları neticesinde **ALUTECH SYSTEM SERIES** markası altında giydirmeye cephe sistemlerini, yalıtımlı-yalıtımsız doğrama, sürme, ışıklık, çelik takviyeli cephe, kompozit ve taş kaplama alt taşıyıcı sistemlerini piyasaya sürmüştür. Sektöre sunulan sistemler her aşamada mühendislik testlerinde geçirilmiş ve Avrupa (EN) normlarında tüm aksesuarlarla uyumu sağlanmıştır. Şirketimiz, misyonu gereği müşteri memnuniyetini baz alındından; gerek optimum çözümler sunan profil dizaynlarımızla, gerek montaj kolaylığı sağlayan detaylarımızla gerekse malzeme kalite ve tedarik hızımızla ayrıcalıklı hizmet vermemi ilke kabul etmiştir. Ayrıca farklı tasarım ve uygulamalara cevap verebilecek şekilde cephelerin vazgeçilmez parçası olan, **Alüminyum Kompozit Panel (ALUTECHBOND)** tesislerimizde üretilmektedir. Dış cephe ve iç cephe uygulamaları için metalik renkli, mat renkli ve desenli renk seçeneklerinde farklı kompozit paneller mevcut olup istenilen ölçülerde panel üretimi yapılmaktadır. **Yıllık 4.200.000 m²** kapasitesi olan iki üretim hattı ile projelerinize optimum çözüm sunmaya hazırız. **ALUTECHBOND Alüminyum Kompozit Panel** -50°C'den +80°C'ye kadar olan sıcaklıklarda kullanılabiliyor. Ürünümüz **SİSTEM ALÜMİNYUM SAN. VE TİC. A.Ş.** güvencesiyle üretilmekte olup, garanti süresi 20 yıldır.

Alüminyum profil sektöründe sürekli gelişmeyi ve kalıcı olmayı hedefleyen firmamız kalite sistem çalışmalarıyla da bu amaca ulaşmada hızlı adımlarla ilerlemektedir. **CE, TSE**, statik toz boyası uygulamaları için **Qualicoat**, eloksal uygulamaları için **Qualinoad** belgelerine sahip olan firmamız ayrıca; **ISO 9001, ISO 14001, ISO 45001** ve **ISO/EC 27001** Bilgi Güvenliği Yönetim Sistemi gibi sistem belgelerine sahiptir. Ayrıca **SİSTEM ALÜMİNYUM SAN. VE TİC. A.Ş.** temin ettiğiniz malzemeler içinde **REACH** ve **ROHS** kısıtlamasında bulunan kimyasalların (ağır metaller) yasal sınırlar içinde bulunduğu teyit etmektedir. Tüm ürünlerimiz için müşterilerimize her türlü mühendislik mimari uyum konusunda teknik hizmet vermekten onur duyuyoruz. Yeni ürünler ve hizmetlerimizle birlikte çalışmak dileğimiz.



SİSTEM ALUMINUM IND. and TRA. INC. It has started to produce aluminum profiles in 1994, with a capacity of 800 tons with 1 press machine of 210 tons/month on 750 m² area in İstanbul/Merter. The company had continued its production there until 1998 and then moved to its place in İstanbul/Hadımköy. With the new perspectives, our facility has been modernized with the conditions of modern time on its new place in Çorlu over an area of **300.000 m²** with **70.000 m²** of closed space and with the addition of new 2.750 tons press machine with capacity of 1.100 tons/month, it has increased the production capacity to **50.000 tons/year**. Sistem Aluminum is an integrated plant which includes all of the processes starting with mold production, continuing with extrusion production, electrostatic powder coating, wood siding, anodized coatings, mechanical process and composite panel production; all the way to final applications.

Our die house supports our current production with CNC processing centers, modern branches and qualified staff. Mold production for special customer profiles is also executed here with modern equipment. It strengthens its place in the industry everyday with its range over **18.500** products.

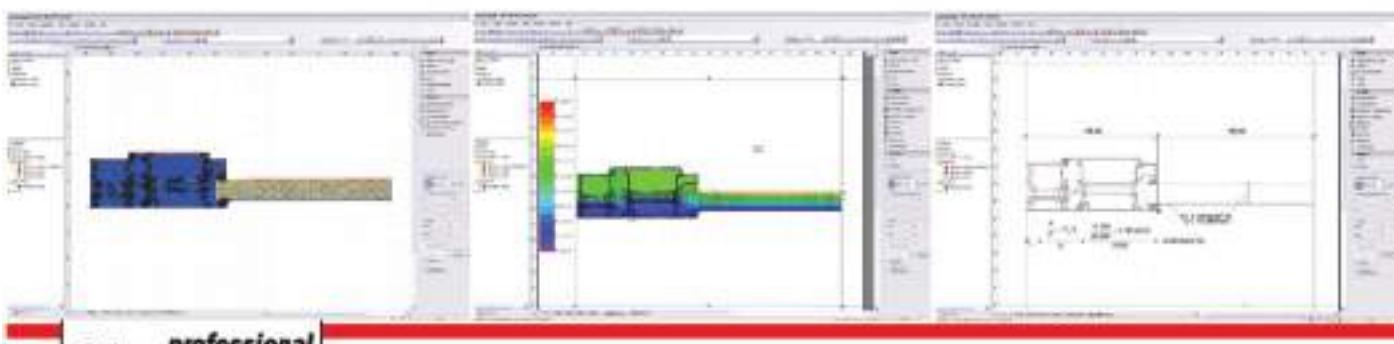
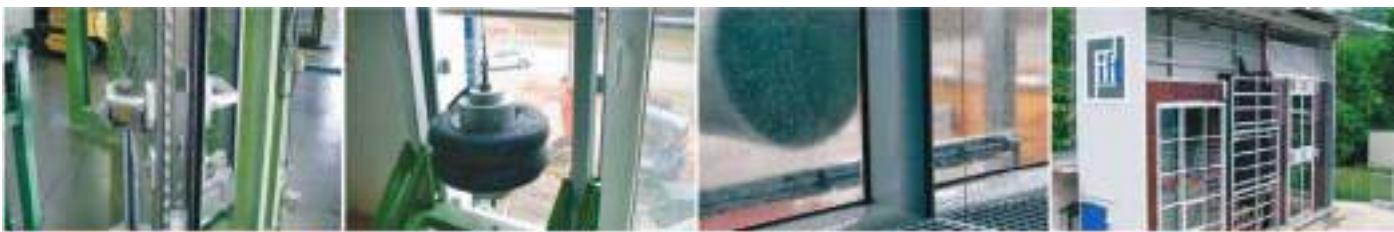
We also provide special color requests from our customers in addition to standard RAL colors, within our Static Powder Paint Facility with **19.000** tons of annual capacity. With our new Powder Coating unit becoming operational in Çorlu, we will be able to process profiles 8000 mm in length. Together with the new anodizing facility becoming operational in Çorlu with the latest technology and where special color requests from our customers are studied, in addition to our Anodizing Facility that became operational in 2006, our annual capacity will be **24.000 tons/year**. As an alternative surface coating, within our Wooden Transfer Coating department, which became operational in 2010, we can work on special colors and designs. Together with the Machining Center, which became operational in 2010, we are able to conduct processes such as profile surface drilling, countersink drilling, unloading, CNC processes, precision cut, angled cut, punch drilling, drilling, cord etc.

Our company allocates a large part of its production capacity for exportation and also serves with the same quality in domestic markets. With this purpose, it has released curtain wall systems, isolated-nonisolated frames, sliding, skylight, steel reinforced facade, composite and stone faced sub-carrier systems, under the brand of **ALUTECH SYSTEM SERIES**, as a result of entirely their own efforts, technology and **R & D** activities. Systems presented to the industry have been tested with engineering tests at every stage and compliance with all accessories in European (EN) standards is provided. Our company, which is based on customer satisfaction as of the nature of its mission; adopted the principle of providing exceptional service with the profile designs that provide optimum solutions, with ease of installation with our details and with quality of materials and supply speed. Besides that, **Aluminum Composite Panel (ALUTECHBOND)**, which is an irreplaceable part of facades, as it can respond to different designs and applications, is produced in our facility. For exterior and interior applications, different composite panels with the options of metallic color, matte color, and patterned colors are available and panels can be produced in the required measurements. With two production lines that have an annual capacity of **4.2 million m²**, we are ready to offer the optimum solutions for your projects. **ALUTECHBOND Aluminum Composite Panels** can be used at temperatures ranging from minus 50°C to plus 80°C Our product is produced under the guarantee of **SİSTEM ALÜMİNYUM IND. AND TRA. INC.** and has a warranty period of 20 years.

Our company, which aims to be permanent and improve continuously in Aluminum profile industry, is advancing at a rapid pace in achieving this objective with its quality system studies. Our company, which has **CE, TSE, Qualicoat** certificates for static powder coating applications and **Qualinload** certificates for anodizing applications, also system certificates such as **ISO 9001, ISO 14001, ISO 45001** and **ISO / EC 27001** Information Security Management System certificates.. Besides, **SİSTEM ALUMINUM IND. And. TRA. INC.** confirms that the chemicals in the materials provided to you within **REACH** and **ROHS** restrictions (heavy metals) are within legal limits. We are honored to provide technical service to our customers for all of our products with all kinds of engineering and architectural compliance. With all wishes to work together with our new products and services.

Best Regards.





flixo professional
by Wofrinid GmbH

3 Adımda Teknik Kataloglar Cebinizde!

Tüm teknik kataloglar,
ihtiyacınız olduğu her an yanınızda.

Mobil uygulamamızı indirin, hem şirketimiz ile ilgili tüm güncel bilgileri edinin, hem de ihtiyacınız olan tüm teknik bilgileri, ciltlerce kalın kataloglar yerine cebinizde taşıyın.

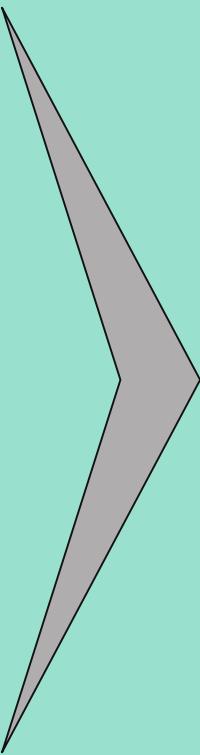


- 1 Aşağıdaki kare kodları telefon veya tabletinize okutun, uygulamayı indirin.
- 2 Uygulamanın kataloglar menüsünden istediğiniz katalogu seçin, dilerseniz cihazınıza indirin.
- 3 Cihazınıza indirdiğiniz katalogları, internet bağlantınız olmasa dahi, dilediğiniz zaman dilediğiniz yerde görüntüleyin.



TEKNİK ÖZELLİKLER

TECHNICAL PROPERTIES



► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
SİSTEM ALÜMİNYUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

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ÜRÜN KONSEPTİ

PRODUCT CONCEPT

F50 - ENERGY ; kapaklı, yarı kapaklı ve silikon derzli cam cephe seçeneklerinin tümünü tek sistem altında ve yüksek performanslı olarak sunan yeni nesil giydirmeye cephe sistemidir.

YENİLİKÇİ TASARIM

Tasarımda dik köşeli ve kalın hatlar sistemde konvansiyonel bir görüntüye neden olmaktadır. Bu duruma karşı F50 - ENERGY'de ince profil kesitleri, kıvrımlı yüzey ve eğimli kenarların yanında büyük radyüslü köşeler tercih edildi. Bunlar yapılrken sistemin kullanım kolaylığı ve imalat özelliklerinden de feragat edilmedi.

ENERJİ TASARRUFU

Çevreye duyarlılık ve enerji tasarrufu konuları gün geçtikçe önem kazanmakta olduğundan F50 - ENERGY'de ısı yalıtım özellikleri üst düzeyde tutuldu. Alüminyum, yapısı gereği soğuk bir materyal olmasına rağmen gelişen malzeme çeşitliliği, dizayn yöntemleri ve teknolojilerle artık oldukça yalıtkan bir yapı haline dönüştürülebilmektedir.

F50 - ENERGY tamamen günümüz ihtiyaçlarına uygun şekilde performans odaklı olarak tasarlandı. Yüksek termal ve hava-su sızdırmazlık performanslarının yanı sıra, geniş kullanım seçenekleri ve kolay imalat özellikleri de sistemin öne çıkan yanlarındandır.

GELİŞTİRİLEBİLİRLİK

F50 - ENERGY, genel sistem konsepti olarak kolaylıkla genişletilebilir yapıdadır. Bu sayede eklenecek yeni çözümlerinin sisteme adaptesi hızlı biçimde yapılmaktadır.

F50 - ENERGY ; is the new generation curtain wall system that combines capped, two sided and four sided silicone curtain wall in a single system.

INNOVATIVE DESIGN

General structure looks like conventional with vertical corner and thick lines in design. Conversely the corners with huge radius preferred with thin profile sections, curly surface and pitched edges. But ease of use and manufacturing specifications did not abandoned.

ENERGY SAVING

Subjects of environment sensitivity and energy saving become important day by day. For this reason thermal insulation specifications was become on high level. In spite of aluminium is a cold material in accordance with its structure, it can be as insulative composite structure by variability of materials, design methods and technologies.

F50 - ENERGY was designed exactly performance-focused as requirements of present day. Important sides of F50 - ENERGY are high performances of thermal and air-water tightness, variously usage options, easy manufacturing specifications.

IMPROVABILITY

F50 - ENERGY has the developable system concept as general. In this way adaptation of new system solutions can be done quickly.

YÜKSEK YALITIMLI GİYDİRME CEPHE SİSTEMİ

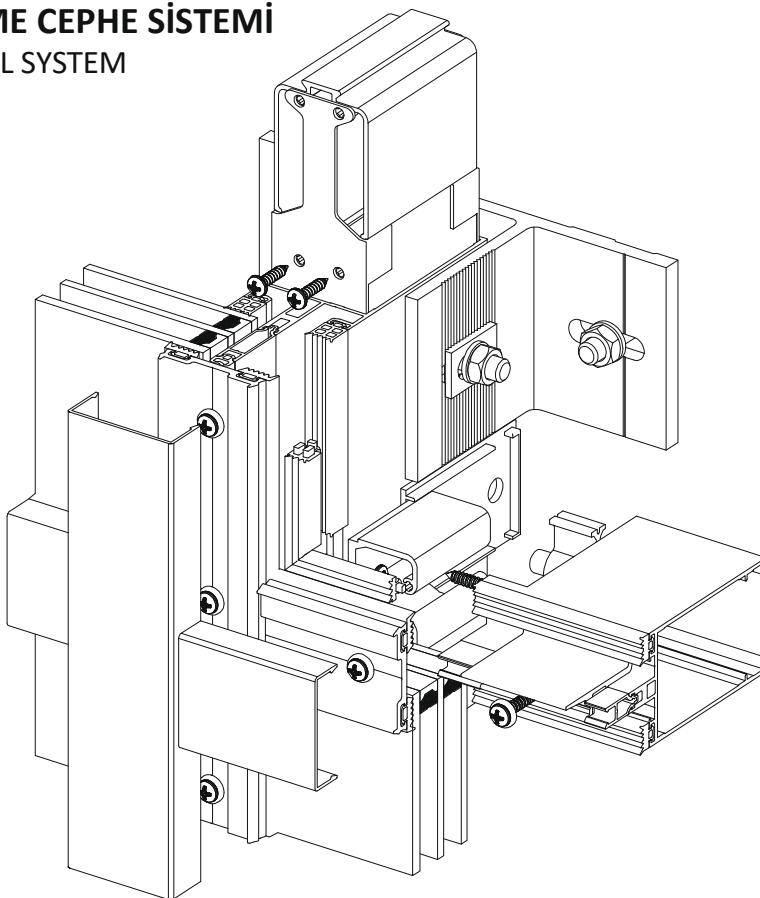
HIGH INSULATED CURTAIN WALL SYSTEM

İMALAT KOLAYLIĞI

F50 - Energy sisteminin sahip olduğu aksesuarlar mümkün olduğunda tek tipe indirgenerek standartlaşmaya önem verildi. Daha az çeşitte ve ortak kullanımında olan bu aksesuarların bir getirisini olarak farklı tiplerdeki ürünleri aynı aksesuarları kullanarak ortaya çıkarmak mümkün hale gelmektedir.

EASE OF MANUFACTURING

Accessories of F50 - ENERGY was mostly standardized. These accessories used generally common with each other. By this method, different types of products is manufactured with the same accessories.



TEKNİK ÖZELLİKLER

TECHNICAL PROPERTIES

PROFİL GENİŞLİKLERİ / PROFILE WIDTHS :	50 mm
DİKME DERİNLİKLERİ / MULLION DEPTHS :	35,55,75,95,115,135,155,175,195,215
KAYIT DERİNLİKLERİ / TRANSOM DEPTHS :	40,60,80,100,120,140,160,180,200,220
PROFİL ET KALINLIĞI / PROFILE WALL THICKNESS :	1,6 mm - 2,8 mm
MAX. CAM KALINLIĞI / MAX. GLASS THICKNESS :	44 mm
ISI BARIYERLERİ / INSULATION BARS :	4 mm - 28 mm
ISI YALITIM DEĞERİ (Uf) / THERMAL INS. VALUE (Uf) :	1,7 W/m²K - 2,9 W/m²K

KULLANIM SEÇENEKLERİ

APPLICATION ALTERNATIVES

KAPAKLI CEPHE / CAPPED CURTAIN WALL :	●
SİLİKON DERZLİ CAM CEPHE / FOUR SIDED SILICONE CURTAIN WALL :	●
YARI KAPAKLI CEPHE / TWO SIDED CURTAIN WALL :	●
DIŞA TERS VASİSTAS G.K. / TOP HUNG OUTWARD OPENING HIDDEN VENT :	●
DIŞA PARALEL AÇILIM G.K. / PARALLEL OUTWARD OPENING HIDDEN VENT :	●

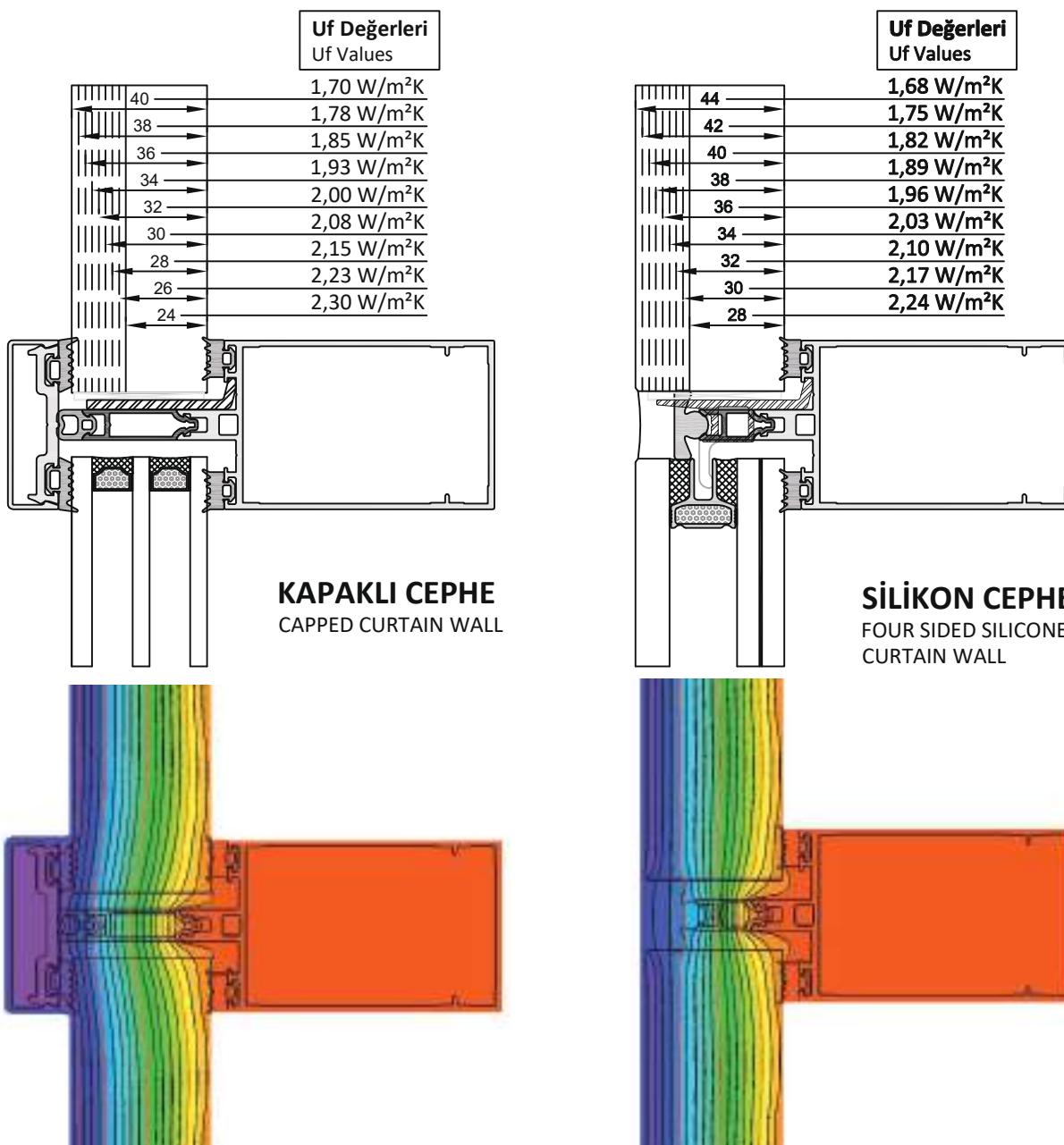
ISI YALITIM DEĞERLERİ THERMAL INSULATION VALUES

Kış şartlarını düşündüğümüzde; iç bölgede yer alan taşıyıcı cephe profillerinin sahip olduğu iç mekan ısısının soğuk olan dış ortama kaçışı ne kadar az olursa, sistem o kadar yalıtımlıdır denilebilir. Bu noktada sistemin termal performansı, kullanılan cam kalınlığı ile doğrudan ilgilidir. Dolayısıyla camlar kalınlaştıkça ısı iletim katsayısı (U_f) düşer ve ısı yalıtım performansı artar.

Aşağıdaki sistem kesitleri üzerinde U_f değerinin cam kalınlığına bağlı olarak ne ölçüde değiştiği görülmektedir.

Little heat transfer from the warm profiles at the inside to the outside cold area means; "more heat insulation" at the winter conditions. The main affect for the insulation level is glass thickness. So, when the glass thickness is higher, the insulation value (U_f) will be lower.

You may see below; the U_f value variations according to the glass thickness.



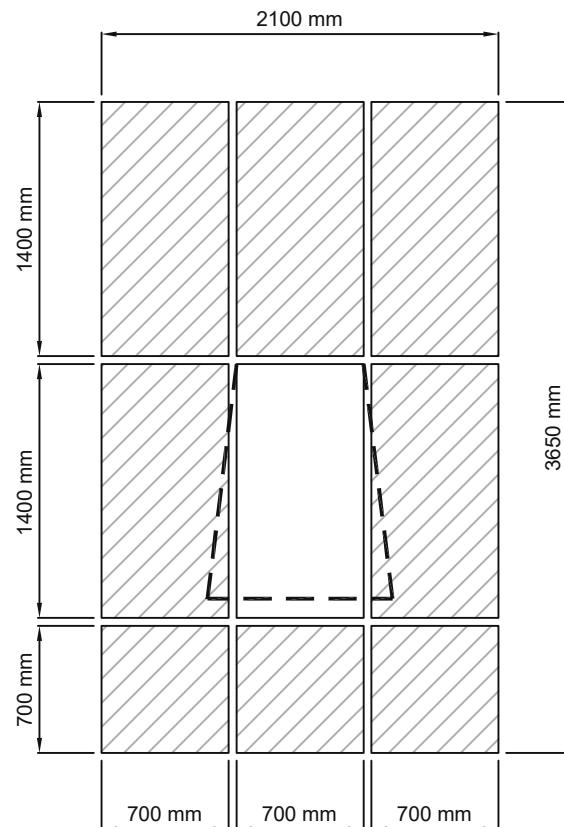
HAVA-SU-RÜZGAR PERFORMANS TEST SONUÇLARI - 1

AIR-WATER-WIND PERFORMANCE TEST RESULTS - 1

- F50-Energy kapaklı cephe sistemiyle gerçekleştirilen hava-su-rüzgar performans test sonuçlarıdır.
 There are the air-water-wind performance test results with the F50-Energy capped curtain wall system.

Test Numunesinin Ebatları

Test Sample Dimensions



Kapaklı Cephe / Capped Curtain Wall

Genişlik / Width: **2150 mm**

Yükseklik / Height: **3650 mm**

KAPAKLI CEPHE TEST SONUÇLARI

CAPPED CURTAIN WALL TEST RESULTS

HAVA GEÇİRGENLİĞİ - EN 12152
 (AIR PERMEABILITY)

A1 (150 Pa)	A2 (300 Pa)	A3 (450 Pa)	A4 (600 Pa)	AE (750 Pa)
-----------------------	-----------------------	-----------------------	-----------------------	-----------------------

SU SIZDIRMAZLIĞI - EN 12154
 (WATERTIGHTNESS)

R4 (150 Pa)	R5 (300 Pa)	R6 (450 Pa)	R7 (600 Pa)	RE... (750+ Pa)	RE1500 (1500 Pa)
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RÜZGAR YÜKÜNE DAYANIM - EN 13116
 (RESISTANCE TO WIND LOAD)

2000 Pa (Emniyet Testi: 3000 Pa)

** Akredite kuruluştan onaylı orijinal belge görseline katalogun sonundaki "sertifikalar" bölümünden ulaşılabilir. /
 Paper image approved from accredited society can be reached at the end of the catalogue "certificates" section.

* Daha detaylı bilgi için, lütfen test raporlarını isteyiniz. / For further information, please ask for the test report s.

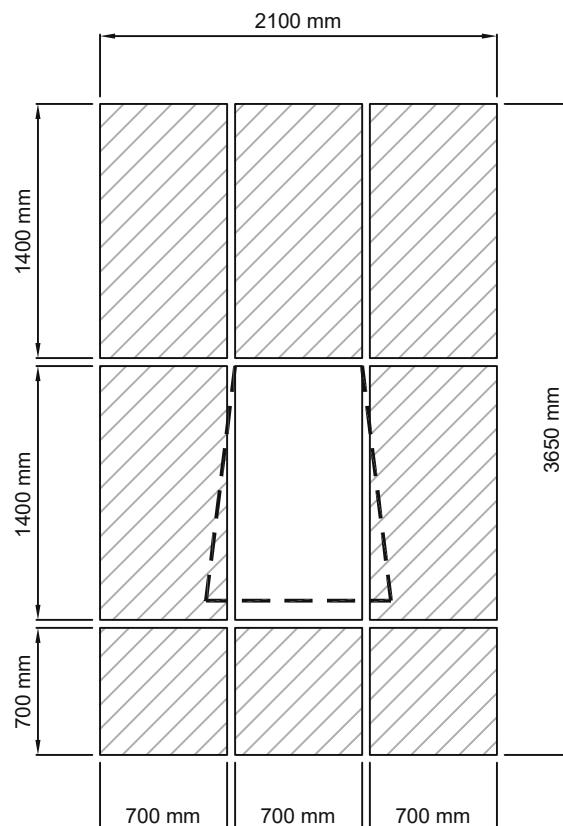
HAVA-SU-RÜZGAR PERFORMANS TEST SONUÇLARI - 2 AIR-WATER-WIND PERFORMANCE TEST RESULTS - 2

- F50-Energy silikon derzli cam cephe sistemiyle gerçekleştirilen hava-su-rüzgar performans test sonuçlarıdır.
There are the air-water-wind performance test results with the F50-Energy four sided silicone curtain wall system.



Test Numunesinin Ebatları

Test Sample Dimensions



Silikon Cam Cephe / Foursided Curtain Wall
Genişlik / Width: 2150 mm
Yükseklik / Height: 3650 mm

SİLİKON DERZLİ CAM CEPHE TEST SONUÇLARI FOUR SIDED SILICONE CURTAIN WALL TEST RESULTS

HAVA GEÇİRGENLİĞİ - EN 12152
(AIR PERMEABILITY)

A1 (150 Pa)	A2 (300 Pa)	A3 (450 Pa)	A4 (600 Pa)	AE (750 Pa)
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SU SIZDIRMAZLIĞI - EN 12154
(WATERTIGHTNESS)

R4 (150 Pa)	R5 (300 Pa)	R6 (450 Pa)	R7 (600 Pa)	RE... (750+ Pa)	RE1200 (1200 Pa)
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RÜZGAR YÜKÜNE DAYANIM - EN 13116
(RESISTANCE TO WIND LOAD)

2000 Pa (Emniyet Testi: 3000 Pa)

** Akredite kuruluştan onaylı orijinal belge görseline katalogun sonundaki "sertifikalar" bölümünden ulaşılabilir. /
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* Daha detaylı bilgi için, lütfen test raporlarını isteyiniz. / For further information, please ask for the test report s.

AKUSTİK PERFORMANS TEST SONUÇLARI

ACOUSTIC PERFORMANCE TEST RESULTS

- F50-Energy kapaklı ve entegre cephe sistem çözümleriyle gerçekleştirilen akustik test sonuçlarıdır.
 There are the acoustic test results with the F50-Energy capped and integrated curtain wall systems.



Kapaklı Cephe / Capped Curtain Wall
 Genişlik / Width: **2150 mm**
 Yükseklik / Height: **2820 mm**



Entegre Cephe / Integrated Curtain Wall
 Genişlik / Width: **2150 mm**
 Yükseklik / Height: **2820 mm**

KAPAKLI CEPHE TEST SONUÇLARI

CAPPED CURTAIN WALL TEST RESULTS

AKUSTİK PERFORMANS - EN 10140-2
 (ACOUSTIC PERFORMANCE) EN 717-1

Rw (C ; Ctr) = **34** (-2; -5) dB

SİLİKON DERZLİ CAM CEPHE TEST SONUÇLARI

FOUR SIDED SILICONE CURTAIN WALL TEST RESULTS

AKUSTİK PERFORMANS - EN 10140-2
 (ACOUSTIC PERFORMANCE) EN 717-1

Rw (C ; Ctr) = **33** (-1; -3) dB

** Akredite kuruluştan onaylı orijinal belge görseline katalogun sonundaki "sertifikalar" bölümünden ulaşılabilir. /
 Paper image approved from accredited society can be reached at the end of the catalogue "certificates" section.

* Daha detaylı bilgi için, lütfen test raporlarını isteyiniz. / For further information, please ask for the test report s.



F50-ENERGY

YÜKSEK YALITIMLI GİYDİRME CEPHE SİSTEMİ
HIGH INSULATED CURTAIN WALL SYSTEM

SİSTEMİN ÖNE ÇIKAN ÖZELLİKLERİ PROMINENT PROPERTIES OF THE SYSTEM

- 1. KOLAY VIDALAMA**
EASY SCREW
- 2. AYNI KASADA YALITIMLI VEYA YALITIMSIZ KANAT KULLANILABİLME İMKANI**
INSULATED AND UNINSULATED VENT PROFILES CAN BE USING WITH THE SAME FRAME
- 3. CAM CEPHEDE SICAK KENAR ANTI YOĞUŞMA ÇITASI KULLANIMI**
WARM EDGE SPACER USAGE IN FOURSIDED SILICONE CURTAIN WALL
- 4. DIŞA PARALEL AÇILIR KANAT**
PARALEL OUTWARD OPENING VENT
- 5. ÖZEL DİLATASYON KAPAKLARI**
SPECIAL DILATATION PLUGS
- 6. KONDENS YOLU İÇİN ÖZEL BAĞLANTI PARÇASI**
SPECIAL CONNECTION PIECE FOR THE CONDENSATION LINE
- 7. VULKANİZE İÇ KÖŞE PARÇALARI**
VULCANISED INNER CORNER PIECES

KOLAY VIDALAMA

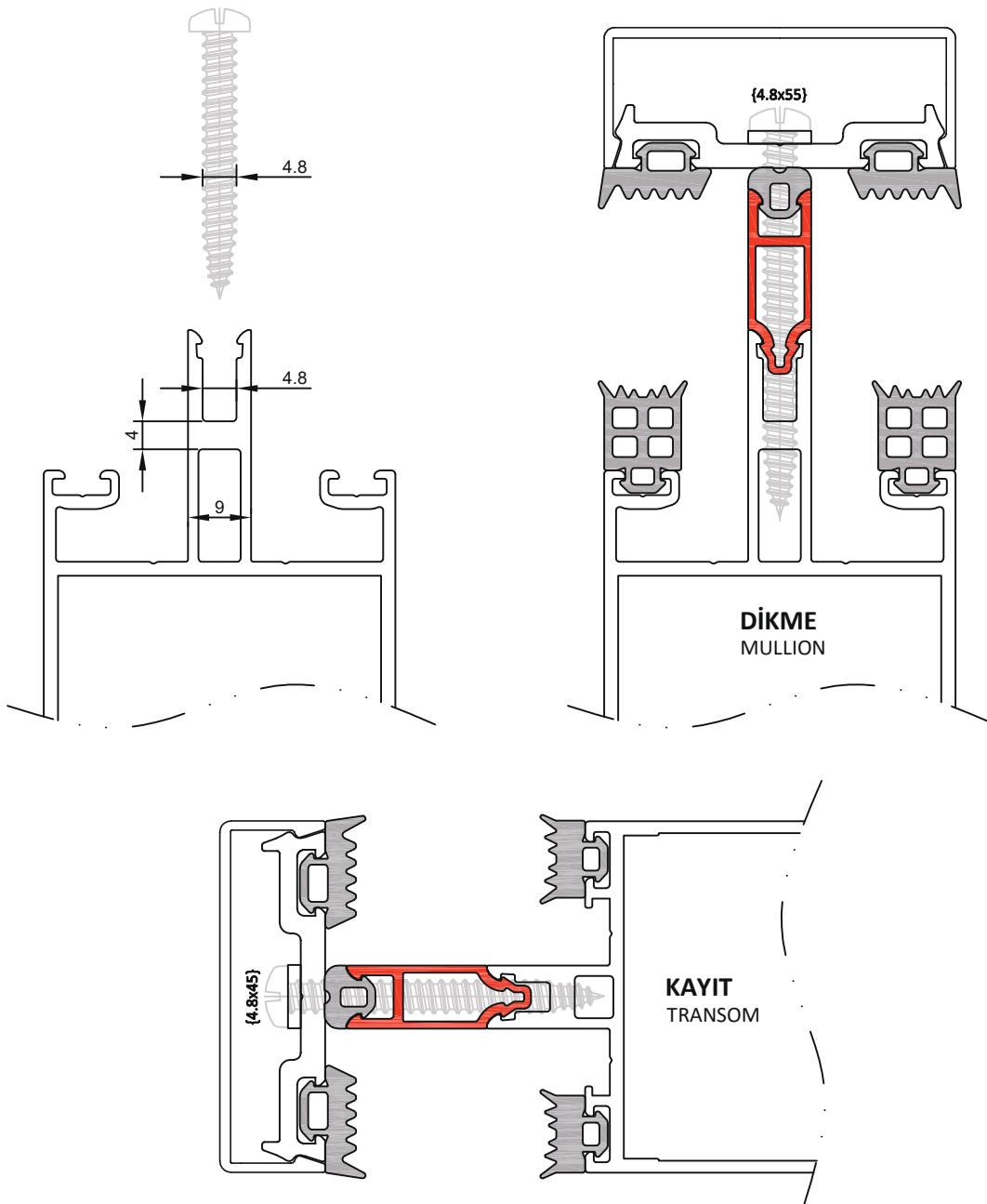
EASY SCREW

Cephede montaj vidaları üzerine binen yükleri azaltmak; hem vidanın kırılma riskini minimize ettiğinden güvenliği artırmakta hem de vidalamanın daha rahat yapılabilmesi sayesinde imalat hızını artırmaktadır.

F50 - Energy sisteminin gaga yapısı 4.8mm'lik vidaların gaga duvarlarını ısrardan sadece temas ederek ilerlemesine ve son noktada 4mm'lik dolu profil etine bağlanarak yüksek bir tutunma mukavemeti elde edilmesine imkan sağlamaktadır.

Reducing applied forces on the screw provides minimizing screw breaking risks so it has more safety and increasing fabrication speed.

F50 - Energy system has unique beak structure suitable to the 4.8mm screws. When managing the application, screws barely contact the beak walls and completely pass through into the 4mm solid aluminium wall. So it provides high pull strength.



AYNI KASADA YALITIMLI VEYA YALITIMSIZ KANAT KULLANILABİLME İMKANI INSULATED AND UNINSULATED VENT PROFILES CAN BE USING WITH THE SAME FRAME

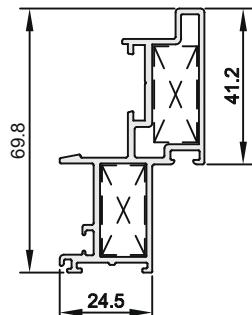
Cephe sistemlerinde kanat bölgeleri termal açıdan en zayıf bölgelerdir. Bu bölgede yaşanan terleme sorunları genellikle kasa yalitimındaki zayıflıklardan ötürü gerçekleşmektedir.

F50 - Energy sisteminde kasa profilleri her zaman ve mutlaka ısı yalitimlidir. Bu nedenle kanat profili yalitimsız bile kullanılmış olsa yoğunlaşma problemi yaşanma ihtimali minimum seviyededir.

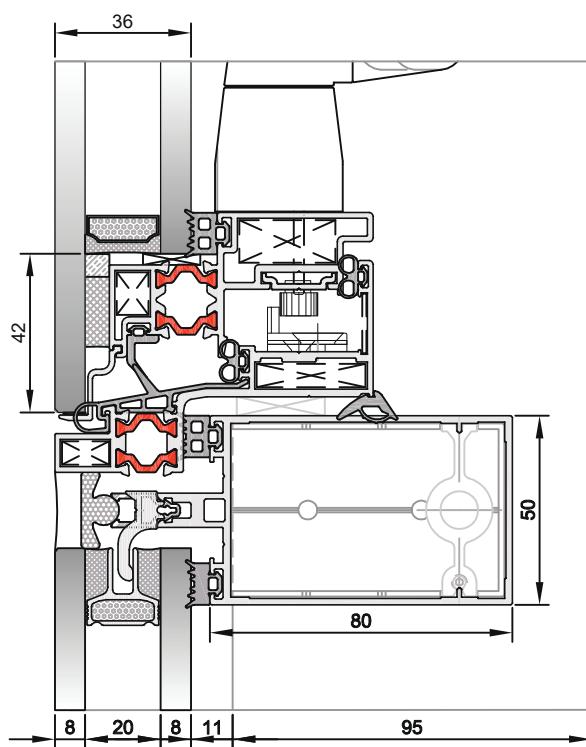
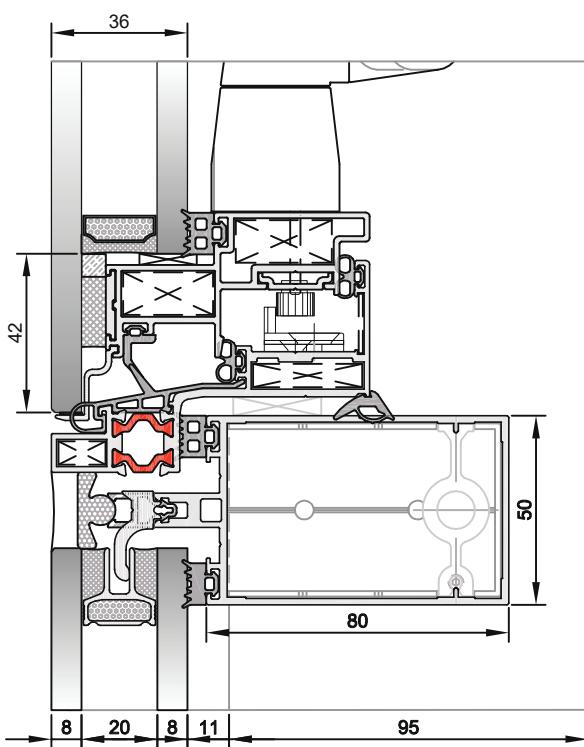
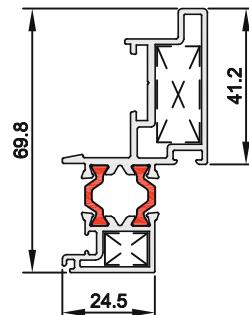
Thermally the weakest point in the curtain wall systems are opening vent areas. The condensation problems are usually result from the heat insulation issues on the frame.

F50 - Energy system's frame profiles are always heat insulated. Even uninsulated vent applications, the condensation risk is minimum.

Isı Yalıtimsız Kanat
Uninsulated Vent



Isı Yalıtımlı Kanat
Heat Insulated Vent



CAM CEPHEDE SICAK KENAR ANTI YOĞUŞMA ÇITASI KULLANIMI

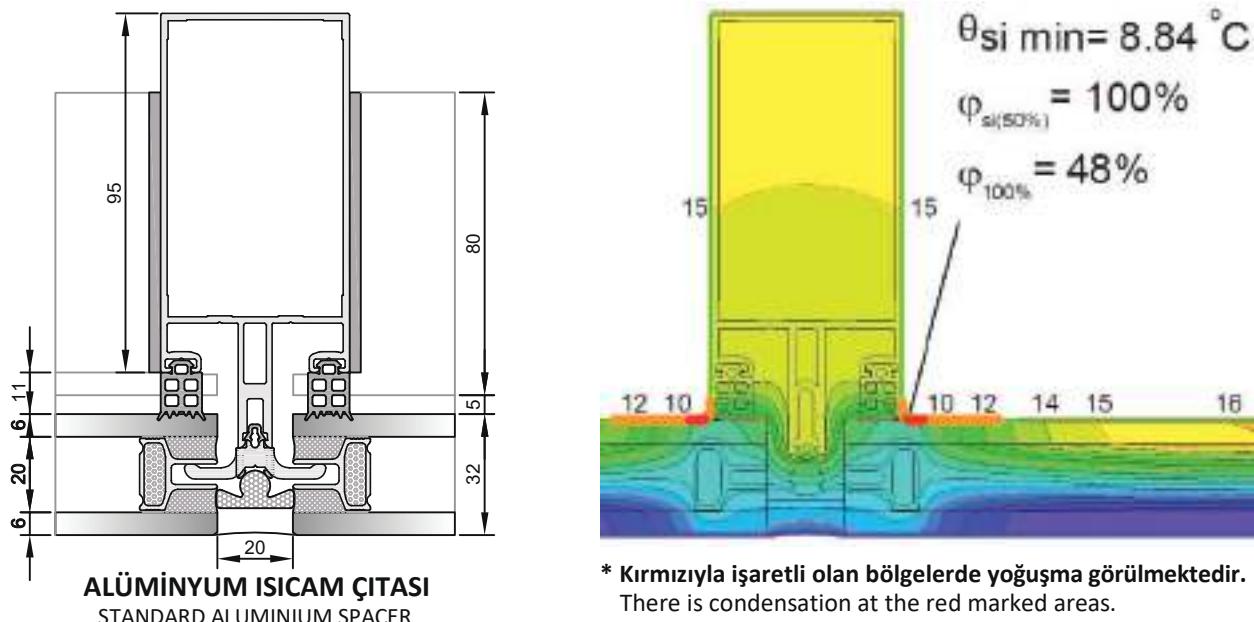
WARM EDGE SPACER USAGE IN FOURESIDED SILICONE CURTAIN WALL

Silikon cam cephelerde ısı yalıtmını sağlayan en büyük etmen camdır. Alüminyum ısıcam çitleri iç ve dış camlar arasında ısı köprüsü oluşturduğundan soğuk bölgelerde iç ortamın hızla ısı kaybetmesine neden olur.

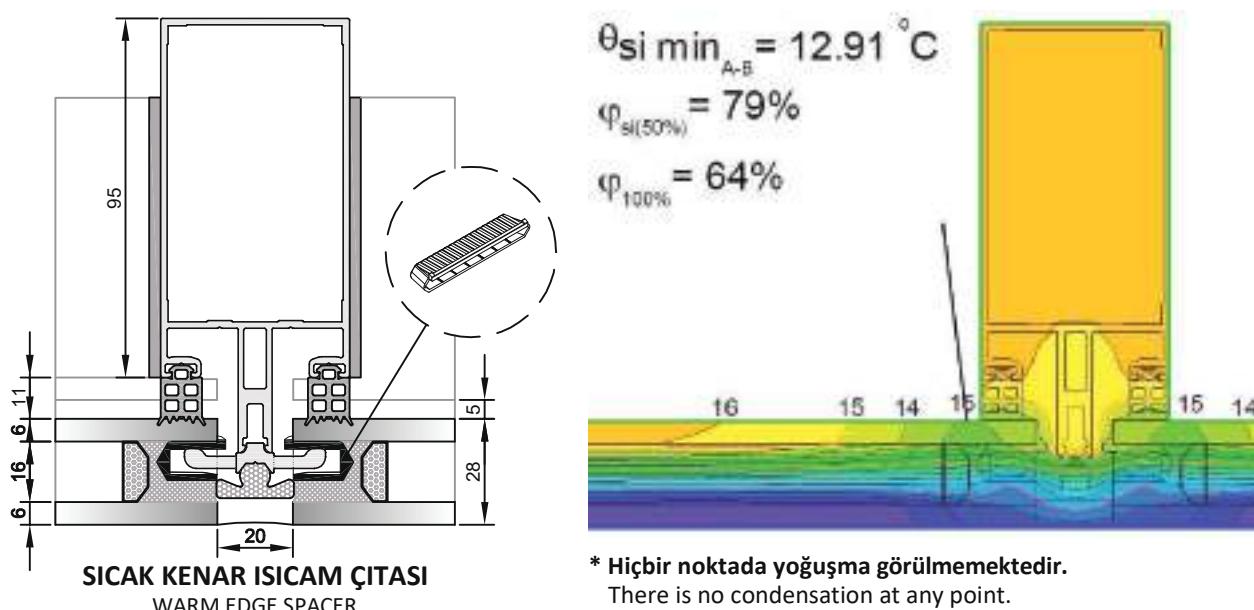
F50 - Energy sistemi sahip olduğu özel plastik kilitleme yuvaları sayesinde pvc malzemeden yapılmış olan sıcak kenar ısıcam çitlarının sorunsuz ve performanslı şekilde kullanımına imkan sağlamaktadır.

The biggest factor about thermal performance is glass. Standard aluminium spacer causes thermal bridge between inside and outside glass. Therefore especially in the low outside temperature conditions, inside area lose heat energy quickly.

F50 - Energy system's special plastic locking pieces provide completely thermally broke glass structure with using pvc based warm edge spacers. The result of this spacer solution condensation risks drop significantly.



Ug: 1,4 W/m²K değerinde cam ile 0°C dış ortam, 20°C iç ortam ve %50 bağıl nem koşullarına göre sistemde yoğunlaşma görülmemesi için minimum iç profil yüzey sıcaklığının (Qsi min.); 9,2°C olan yoğunlaşma başlangıç noktasının altında olmaması gereklidir.
Without the condensation, glass Ug: 1,4 W/m²K at 0°C outside weather, 20°C inside weather and %50 relative humidity conditions, minimum inside profile surface temperature (Qsi min.), should be under the dewpoint beginning of 9,2°C.



DIŞA PARALEL AÇILIR KANAT PARALLEL OUTWARD OPENING VENT

Konvansiyonel cephe uygulamalarında dışa açılır kanatlar ters vasistas şeklinde uygulanmaktadır. Bu tip kanatlar maliyet yönünden avantajlı konumdayken havalandırma ve estetik görünüm yönlerinden dezavantajlı durumdadır.

Ters vasistas tip kanatlarda cepheye dışarıdan bakıldığından açık olan kanat bölgelerinde ışığın farklı kırılmasına ve o bölümde sanki delik varmış hissi oluşmasına neden olur. Havalandırma konusunda ise, oda içerisinde isınan hava yukarı yönde hareket etmek isteyeceğinden paralel açılım kanatlarda hava tahliye hızı ters vasistasa oranla 3 kat fazladır. Bu da odanın çok daha hızlı havalandanması anlamına gelmektedir.

Top hung outward opening hidden vent is the conventional low cost solution for the curtain walls. But it has disadvantages related to ventilation and aesthetic appearance.

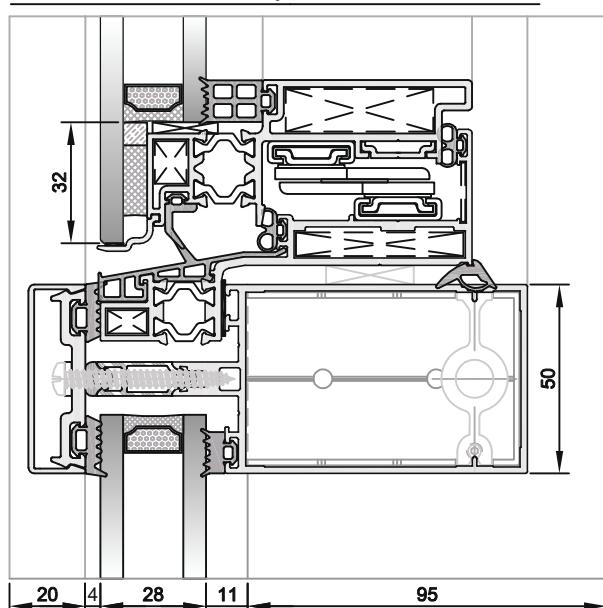
When the vent is open, the outside appearance of the top hung hidden vent is the sort of hole feeling. For the ventilation, warm air wants to move higher so the parallel opening vents has more exhaust space at the top. Therefore it provides 3 times better air release speed and faster ventilation capability than top hung opening vents.



Dışa Ters Vasistas Açılım
Top hung outward opening

Dışa Paralel Açılım
Paralel Outward Opening

PARALEL KANAT DETAYI / PARALLEL VENT DETAIL:



** ÇEVRESEL KİTLEME YAPILABİLMEKTEDİR. /
CAPABLE TO CIRCUMFERENCE MULTILOCKING.

ÖRNEK UYGULAMA / SAMPLE APPLICATION:



ÖZEL DİLATASYON KAPAKLARI

SPECIAL DILATATION PLUGS

1. BOŞLUKSUZ SİLİKON UYGULAMASI /

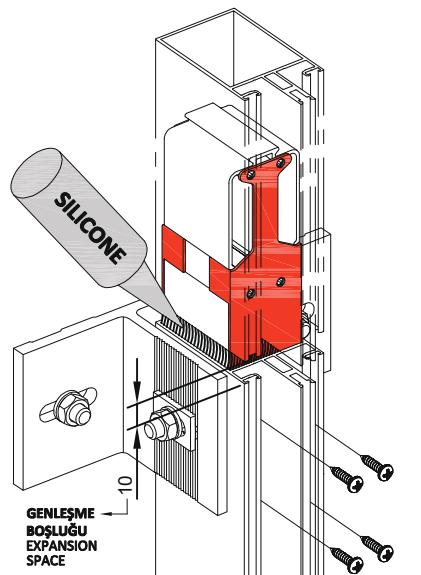
GAP FREE SILICONE APPLICATION

Genleşme boşluğuna silikon uygulaması yapılırken, silikonun bir kısmı profil içerisinde düşerek boşluklara neden olmaktadır.

F50 - Energy sisteminin sahip olduğu dilatasyon kapakları sayesinde genleşme bölgesindeki silikon boşlukları engellenmekte ve kolay biçimde mükemmel bir hava-su izolasyonu sağlanabilmektedir.

When applying the silicone, some of the silicone drop into the mullion profile. It causes gap between bottom and top profiles.

F50-Energy system has special dilatation plugs and they prevent being gaps at the silicone application process and can be provided perfect air-water isolation at expansion spaces.



2. GENLEŞME GÜRLÜTÜSÜ ENGELLEME /

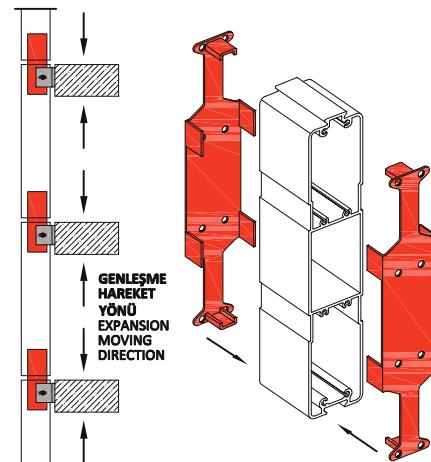
PREVENTING EXPANSION NOISE

Gündüz ısınan taşıyıcı profiller akşam üstünden itibaren ısınlarını kayberek eski hallerine dönmeye çalışırlar. Bu hareket esnasında dilatasyon bölgesinde metal metale sürtünmelerden kaynaklı tıknır benzeri rahatsız edici sesler oluşur.

F50 - Energy sisteminin sahip olduğu özel dilatasyon kapakları sayesinde, genleşme esnasındaki sürtünmeler metaller ile plastik kapaklar arasında olmaktadır. Bu da ses izolasyonu anlamına gelmektedir.

A reason of metal & metal friction, there is some disturbing noise according to the day-night temperature differences at the dilatation area.

F50-Energy system has special dilatation plugs and they provide the friction between metals & plastics. Consequently it means sound isolation.



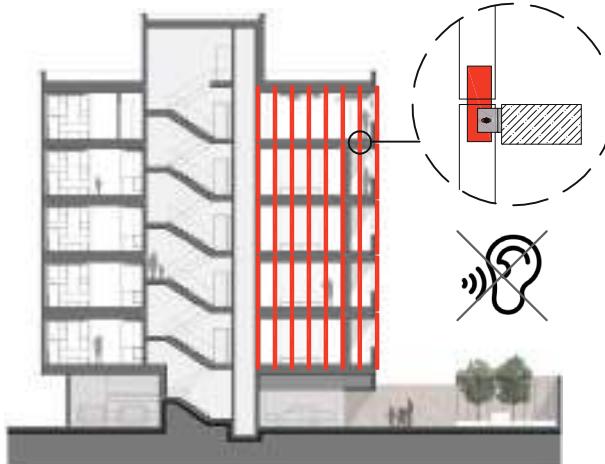
3. KATLAR ARASI SES İZOLASYONU /

SOUND ISOLATION BETWEEN FLOORS

Dilatasyon bölgesinde metal metale temas eden bir ilişki varsa, ortamda oluşan ses dalgaları taşıyıcılara çarptığında titreşim oluşturmaktır ve bu titreşimler yine taşıyıcılar aracılığıyla alt ve üst katlara gürültü olarak iletilmektedir.

F50 - Energy sisteminin sahip olduğu özel dilatasyon kapakları sayesinde, sürtünmeler metaller ile plastik kapaklar arasında gerçekleştiğinden ses dalgalarının oluşturduğu titreşimler sönümmektedir, beraberinde taşıyıcılar içerisindeki boşluklardaki yanık oluşumu engellemektedir.

When the noise inside the room crash at the supporter profiles cause sound vibrations and they transmit up and down floors as a disturbing noise.



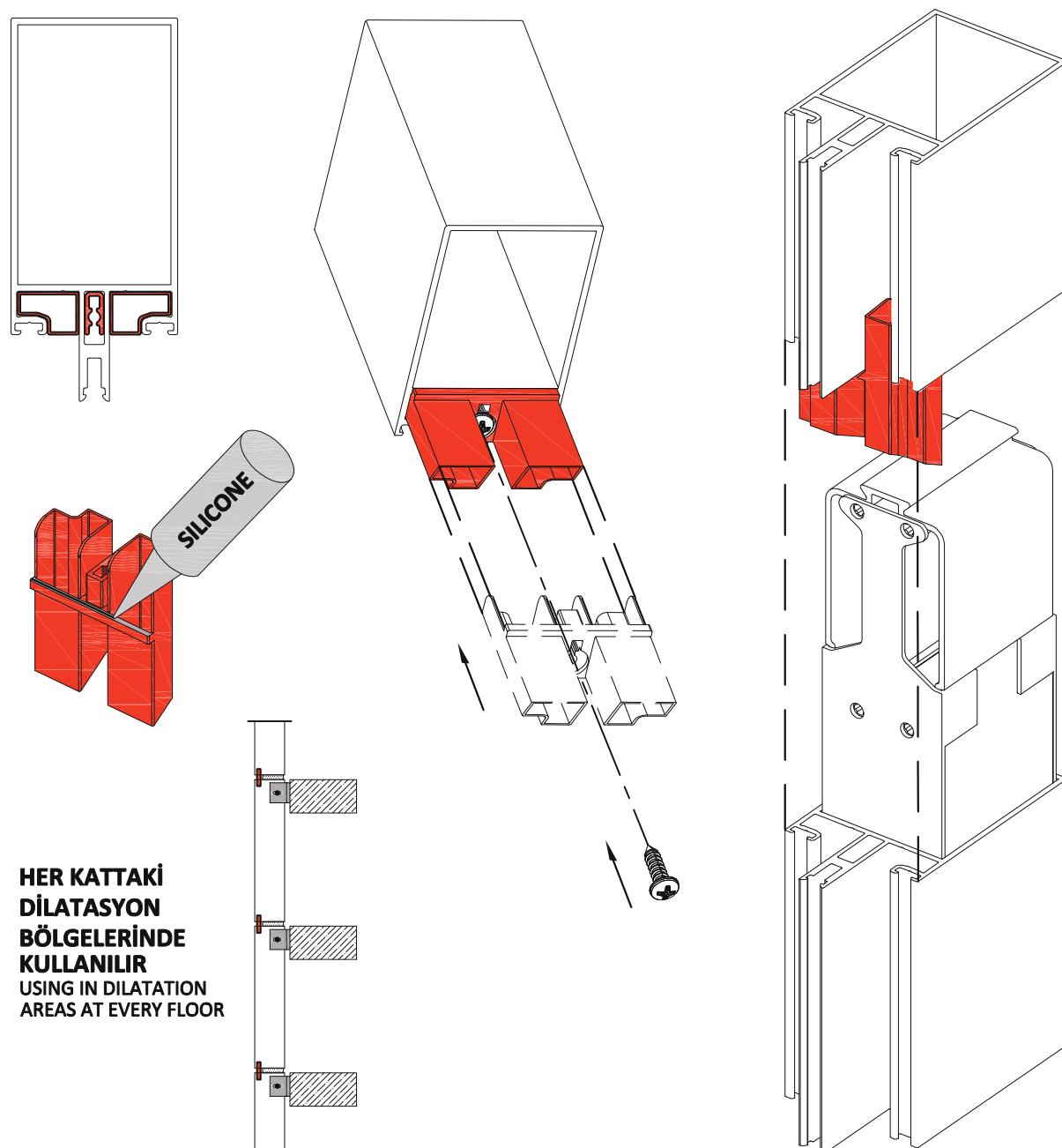
KONDENS YOLU İÇİN ÖZEL BAĞLANTI PARÇASI SPECIAL CONNECTION PIECE FOR THE CONDENSATION LINE

Yapıda özellikle kış aylarında iç ve dış ortam sıcaklık farklarından ötürü yoğunlaşma suları oluşmakta ve kondens kanalları aracılığıyla cephenin en alt bölümünden dışarı atılmaktadır. Oluşan yoğunlaşma suları üst katlarda damlamlar şeklinde görülmekteken, aşağılara inildikçe birleşerek debisi olan bir su akışı haline gelirler.

F50 - Energy sisteminin sahip olduğu özel kondens yolu bağlantı parçası sayesinde suyun akışı kesintisiz ve sızdırmaz bir biçimde gerçekleşebilmektedir.

Especially in winter, system has condensation water which lunge with the condensation line because of the inside and outside temperature differences. These condensation water drop from top to bottom and when reach the lower levels they become a water stream.

F50 - Energy system's special connection piece provides uninterrupted and sealed water stream at the condensation line.



VULKANİZE İÇ KÖŞE PARÇALARI

VULCANISED INNER CORNER PIECES

Cephe sistemlerinde tahliyelerden ve kondens boşluklarından giren hava sistem içerisinde dolaşmaktadır. Bu noktada havanın iç ortama geçişini engelleyen tek unsur, sistemin iç bini fitilleridir.

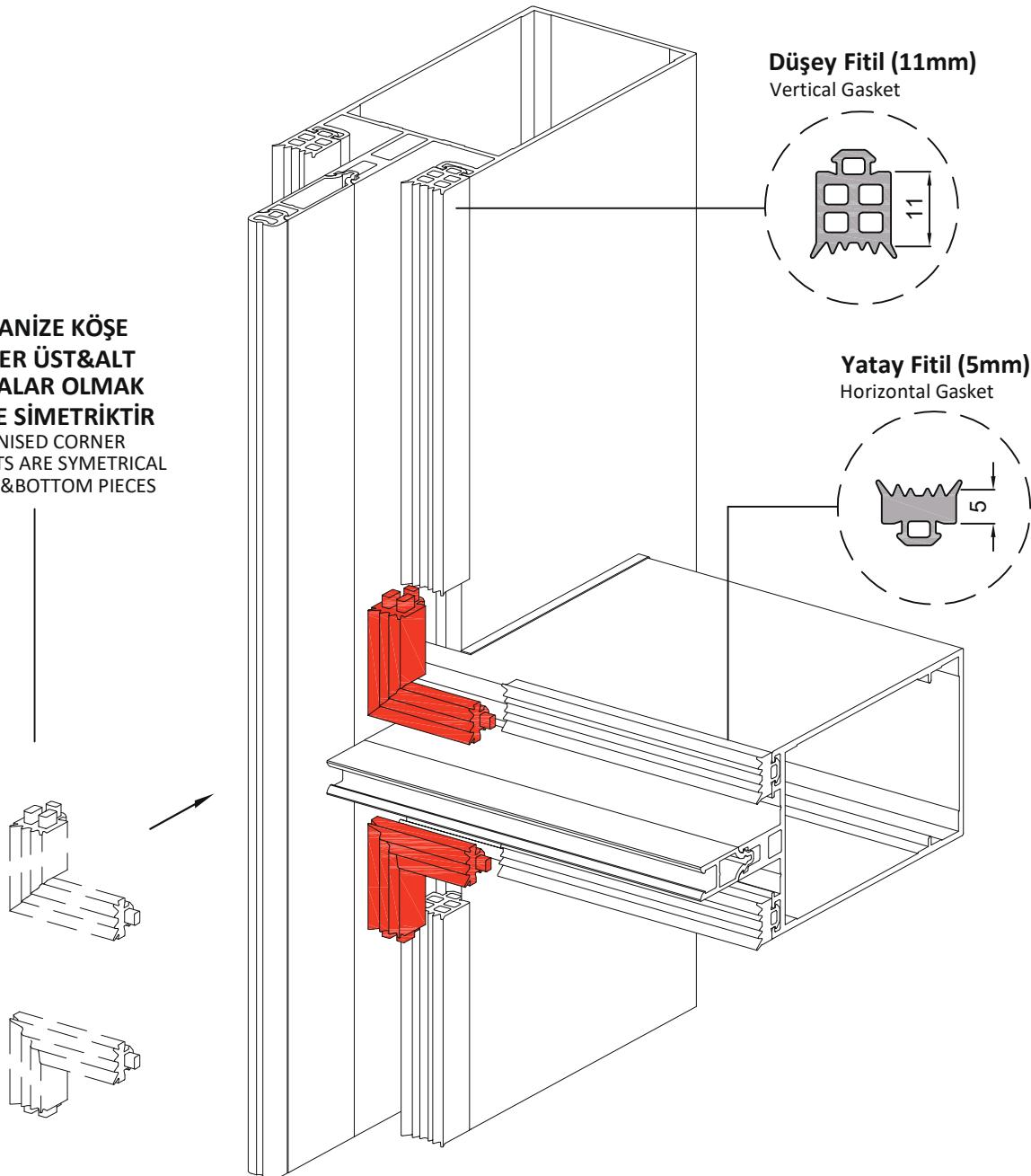
F50 - Energy sisteminin sahip olduğu özel vulkanize fitiller sayesinde, düşeyden gelen 11mm'lik filil ile yataydan gelen 5mm'lik filil köşelerde kusursuz biçimde birleşmektedir. Köşe birleşim noktalarının eksiz ve yekpare biçimde dönülmesi sayesinde hem imalat yönünden hız&kolaylık sağlanmakta hem de işçilikten kaynaklanabilecek olası hataların önüne geçilmektedir.

Air coming from outside to inside with draine holes and condensation channel is rounding in the curtain wall. The only thing to prevent air passing into the system is the inner gaskets.

F50 - Energy system's special vulcanised corner pieces provide uninterrupted corner line between vertical gasket with 11mm thickness and horizontal gasket with 5mm thickness. These exellent corner connection also provides speed&easy manufacturing and prevents potential workmanship mistakes.

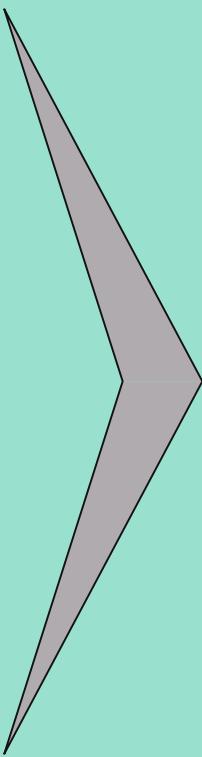
**VULKANİZE KÖŞE
FİTİLLER ÜST&ALT
PARÇALAR OLMAK
ÜZERE SİMETRİKİR**

VULCANISED CORNER
GASKETS ARE SYMETRICAL
AS TOP&BOTTOM PIECES



PROFİL FİHRİSTİ

PROFILE INDEX



- KATALOGDA BELİRTİLEN TÜM PROFİL AĞIRLIKLARI TEORİK OLUP PROFİLLERİN PRES(HAM) HALLERİNE AİTTİR. ISI BARİYERİ ÇESİDİNE VEYA PROFİL YÜZEYİNDEKİ BOYA KALINLIKLARINA BAĞLI OLARAK AĞIRLIK FARKLILIKLARI OLUŞABİLMEKTEDİR. WEIGHTS IN THIS CATALOGUE ARE THEORETICAL AND BELONG TO MILL FINISH SURFACE. ACCORDING TO THE INSULATION BAR TYPE OR THICKNESSES OF THE PAINT ON THE PROFILE SURFACE, THERE COULD BE WEIGHT DIFFERENCES.
- SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR. SİSTEM ALÜMİNYUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

PROFİL FİHRİSTİ / PROFILE INDEX

PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP101	DİKME PROFİLİ (35 mm/1.7 mm) MULLION PROFILE		1,283	26
FP102	DİKME PROFİLİ (55 mm/1.7 mm) MULLION PROFILE		1,467	26
FP103	DİKME PROFİLİ (55 mm/2 mm) MULLION PROFILE		1,568	26
FP104	DİKME PROFİLİ (75 mm/1.7 mm) MULLION PROFILE		1,651	27
FP105	DİKME PROFİLİ (75 mm/2 mm) MULLION PROFILE		1,785	27
FP106	DİKME PROFİLİ (95 mm/1.7 mm) MULLION PROFILE		1,835	27
FP107	DİKME PROFİLİ (95 mm/2 mm) MULLION PROFILE		2,001	27
FP108	DİKME PROFİLİ (115 mm/1.7 mm) MULLION PROFILE		2,081	28
FP109	DİKME PROFİLİ (115 mm/2 mm) MULLION PROFILE		2,343	28
FP110	DİKME PROFİLİ (135 mm/1.7 mm) MULLION PROFILE		2,291	29
FP111	DİKME PROFİLİ (135 mm/2 mm) MULLION PROFILE		2,684	29
FP112	DİKME PROFİLİ (155 mm/1.8 mm) MULLION PROFILE		2,594	30
FP113	DİKME PROFİLİ (155 mm/2 mm) MULLION PROFILE		2,963	30
FP114	DİKME PROFİLİ (175 mm/2.1 mm) MULLION PROFILE		3,004	31
FP115	DİKME PROFİLİ (175 mm/2.1 mm) MULLION PROFILE		3,327	31

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PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP116	DİKME PROFİLİ (195 mm/2.3 mm) MULLION PROFILE		3,449	32
FP117	DİKME PROFİLİ (195 mm/2.3 mm) MULLION PROFILE		3,756	32
FP118	DİKME PROFİLİ (215 mm/2.4 mm) MULLION PROFILE		3,915	33
FP119	DİKME PROFİLİ (215 mm/2.4 mm) MULLION PROFILE		4,283	33
FP125	KÖŞE DÖNÜŞ PROFİLİ (75 mm) CORNER PROFILE		2,366	34
FP126	KÖŞE DÖNÜŞ PROFİLİ (95 mm) CORNER PROFILE		2,681	34
FP151	KAYIT PROFİLİ (5.5 mm) TRANSOM PROFILE		0,567	35
FP152	KAYIT PROFİLİ (20 mm/1.7 mm) TRANSOM PROFILE		0,933	35
FP153	KAYIT PROFİLİ (40 mm/1.7 mm) TRANSOM PROFILE		1,123	35
FP154	KAYIT PROFİLİ (50 mm/1.6 mm) TRANSOM PROFILE		1,161	35
FP155	KAYIT PROFİLİ (60 mm/1.7 mm) TRANSOM PROFILE		1,308	36
FP156	KAYIT PROFİLİ (80 mm/1.7 mm) TRANSOM PROFILE		1,515	36
FP157	KAYIT PROFİLİ (100 mm/1.7 mm) TRANSOM PROFILE		1,699	36
FP158	KAYIT PROFİLİ (120 mm/1.7 mm) TRANSOM PROFILE		1,884	36
FP159	KAYIT PROFİLİ (140 mm/2 mm) TRANSOM PROFILE		2,289	37

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PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP160	KAYIT PROFİLİ (160 mm/1.6 mm) TRANSOM PROFILE		2,227	37
FP161	KAYIT PROFİLİ (160 mm/2.1 mm) TRANSOM PROFILE		2,601	38
FP162	KAYIT PROFİLİ (180 mm/2.1 mm) TRANSOM PROFILE		2,828	38
FP163	KAYIT PROFİLİ (200 mm/2.1 mm) TRANSOM PROFILE		3,230	39
FP164	KAYIT PROFİLİ (220 mm/2.4 mm) TRANSOM PROFILE		3,785	39
FP165	KAYIT PROFİLİ (100 mm/1.7 mm) TRANSOM PROFILE		1,485	40
FP301	YALITIMSIZ KASA PROFİLİ UNINSULATED FRAME PROFILE		1,053	40
FP302	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,218	40
FP303	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,239	41
FP304	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,255	41
FP305	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,425	42
FP306	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,441	42
FP326	YALITIMSIZ KANAT PROFİLİ UNINSULATED VENT PROFILE		0,909	40
FP327	YALITIMSIZ KANAT PROFİLİ UNINSULATED VENT PROFILE		1,037	41
FP328	YALITIMLI KANAT PROFİLİ INSULATED VENT PROFILE		1,219	41

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PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP329	YALITIMSIZ KANAT PROFİLİ UNINSULATED VENT PROFILE		1,255	42
FP330	YALITIMLI KANAT PROFİLİ INSULATED VENT PROFILE		1,437	42
FP359	SPANDREL BÖLGE PANEL PROFİLİ PANEL PROFILE FOR SPANDREL AREA		0,437	43
FP360	SPANDREL BÖLGE PANEL PROFİLİ PANEL PROFILE FOR SPANDREL AREA		0,485	43
FP361	SPANDREL BÖLGE PANEL PROFİLİ PANEL PROFILE FOR SPANDREL AREA		0,468	43
FP362	SPANDREL BÖLGE PANEL PROFİLİ PANEL PROFILE FOR SPANDREL AREA		0,416	43
FP377	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,294	50
FP378	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,319	50
FP379	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,332	50
FP380	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,354	50
FP381	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,270	50
FP382	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,281	50
FP383	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,343	50
FP384	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,340	50
FP390	CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE		0,277	50

PROFİL FİHRİSTİ / PROFILE INDEX

PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP391	CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE		0,308	50
FP392	CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE		0,338	50
FP393	CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE		0,368	50
FP394	CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE		0,482	50
FP398	20mm ÖZEL İSICAM ÇITASI 20mm SPECIAL GLASS SPACER		0,240	43
FP399	YAPIŞMA YÜZEV PROFİLİ BONDING SURFACE PROFILE		0,109	43
FP400	KANAT CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE FOR VENT		0,078	51
FP401	KANAT CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE FOR VENT		0,112	51
FP426	BASKI KAPAK PROFİLİ PRESSURE CAP PROFILE		0,395	44
FP427	BASKI KAPAK PROFİLİ PRESSURE CAP PROFILE		0,496	44
FP428	BASKI KAPAK PROFİLİ PRESSURE CAP PROFILE		0,413	44
FP429	BASKI KAPAK PROFİLİ PRESSURE CAP PROFILE		0,494	44
FP430	BASKI KAPAK PROFİLİ PRESSURE CAP PROFILE		0,183	44
FP440	KAPAK PROFİLİ CAP PROFILE		0,043	44
FP441	KAPAK PROFİLİ (12 mm) CAP PROFILE		0,283	44

PROFİL FİHRİSTİ / PROFILE INDEX

PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP442	KAPAK PROFİLİ (15 mm) CAP PROFILE		0,308	44
FP443	KAPAK PROFİLİ (20 mm) CAP PROFILE		0,343	44
FP444	KAPAK PROFİLİ (25 mm) CAP PROFILE		0,403	44
FP445	KAPAK PROFİLİ (30 mm) CAP PROFILE		0,455	45
FP446	KAPAK PROFİLİ (50 mm) CAP PROFILE		0,745	45
FP447	KAPAK PROFİLİ (75 mm) CAP PROFILE		0,954	45
FP448	KAPAK PROFİLİ (100 mm) CAP PROFILE		1,273	45
FP449	KAPAK PROFİLİ (150 mm) CAP PROFILE		2,065	46
FP450	KAPAK PROFİLİ (200 mm) CAP PROFILE		3,006	46
FP461	KAPAK PROFİLİ (18.5 mm) CAP PROFILE		0,262	47
FP462	KAPAK PROFİLİ (30 mm) CAP PROFILE		0,397	47
FP463	KAPAK PROFİLİ (50 mm) CAP PROFILE		0,611	45
FP464	KAPAK PROFİLİ (75 mm) CAP PROFILE		0,753	47
FP465	KAPAK PROFİLİ (75 mm) CAP PROFILE		0,879	47
FP466	KAPAK PROFİLİ (100 mm) CAP PROFILE		1,214	47

PROFİL FİHRİSTİ / PROFILE INDEX

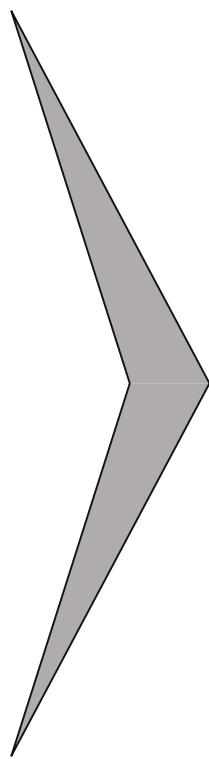
PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP467	KAPAK PROFİLİ (150 mm) CAP PROFILE		1,885	48
FP468	KAPAK PROFİLİ (200 mm) CAP PROFILE		2,779	48
FP479	DIŞ KÖŞE DÖNÜŞ KAPAK PROFİLİ OUTER CORNER CAP PROFILE		1,785	49
FP480	İÇ KÖŞE BASKI KAPAK PROFİLİ INNER CORNER PRESSURE CAP PROFILE		0,384	49
FP481	İÇ KÖŞE DÖNÜŞ KAPAK PROFİLİ INNER CORNER CAP PROFILE		0,251	49
FP482	AÇILI BASKI KAPAK PROFİLİ ANGULAR PRESSURE CAP PROFILE		0,524	49
FP483	AÇILI KAPAK PROFİLİ ANGULAR CAP PROFILE		0,562	49
FP484	AÇILI BASKI KAPAK PROFİLİ ANGULAR PRESSURE CAP PROFILE		0,614	49
FP485	AÇILI KAPAK PROFİLİ ANGULAR CAP PROFILE		0,674	49
FP488	CAM ÇITASI (24 mm) GLAZING BEAD		0,234	43
FP489	AÇILI CAM ÇITASI ANGULAR GLAZING BEAD		0,098	43
FP490	AÇILI CAM ÇITASI ANGULAR GLAZING BEAD		0,105	43
FP491	AÇILI CAM ÇITASI ANGULAR GLAZING BEAD		0,112	43
FP492	CAM ÇITASI (6 mm) GLAZING BEAD		0,096	43
FP493	CAM ÇITASI (14 mm) GLAZING BEAD		0,151	43

PROFİL FİHRİSTİ / PROFILE INDEX

PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP494	CAM ÇITASI (16 mm) GLAZING BEAD		0,179	43
FP495	CAM ÇITASI (18 mm) GLAZING BEAD		0,192	43
FP496	CAM ÇITASI (20 mm) GLAZING BEAD		0,207	43
FP497	CAM ÇITASI (22 mm) GLAZING BEAD		0,218	43
FP498	CAM ÇITASI (30 mm) GLAZING BEAD		0,270	43
FP499	ADAPTÖR PROFİLİ ADAPTER PROFILE		0,329	44
FP500	TİJ PROFİLİ ROD PROFILE		0,096	43
FP501	DİLATASYON PROFİLİ DILATATION PROFILE		3,864	52
FP502	GÜNEŞ KIRICILAR İÇİN BAĞLANTI PR. CARRIER PROFILE FOR SUNBREAKERS		3,533	52
FP506	U BAĞLANTI PROFİLİ U CONNECTION PROFILE		0,841	51
FP514	AÇILI U BAĞLANTI PROFİLİ ANGULAR U CONNECTION PROFILE		0,947	51
FP520	KÖŞE TAKOZU CORNER CLEAT		1,974	51
FP521	KÖŞE TAKOZU CORNER CLEAT		2,366	51

PROFİLLER

PROFILES



- KATALOGDA BELİRTİLEN TÜM PROFİL AĞIRLIKLARI TEORİK OLUP PROFİLLERİN PRES(HAM) HALLERİNE AİTTİR. ISI BARİYERİ ÇESİDİNE VEYA PROFİL YÜZEVİNDEKİ BOYA KALINLIKLARINA BAĞLI OLARAK AĞIRLIK FARKLILIKLARI OLUŞABİLMEKTEDİR. WEIGHTS IN THIS CATALOGUE ARE THEORETICAL AND BELONG TO MILL FINISH SURFACE. ACCORDING TO THE INSULATION BAR TYPE OR THICKNESSES OF THE PAINT ON THE PROFILE SURFACE, THERE COULD BE WEIGHT DIFFERENCES.
- SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR. SİSTEM ALÜMİNYUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

STATİK DEĞERLER TABLOSU

TABLE OF THE STATIC VALUES

TAŞIYICI DÜŞEY PROFİLLER / MULLION PROFILES

PR. NUMARASI PROFILE NO.	PR. DERİNLİĞİ PROFILE DEPTH	ET KALINLIĞI WALL THICKNESS	SIRT ET KALINLIĞI BACK WALL THICKNESS	Wx (cm ³)	Wy (cm ³)	Jx (cm ⁴)	Jy (cm ⁴)	AĞIRLIK WEIGHT (kg/m)
FP101	35mm	1.7mm	1.7mm	3,41	4,78	10,93	11,95	1,283
FP102	55mm	1.7mm	1.7mm	6,76	6,37	26,56	15,92	1,467
FP103	55mm	2mm	2mm	6,99	6,85	28,18	17,12	1,568
FP104	75mm	1.7mm	1.7mm	10,96	7,95	52,42	19,88	1,651
FP105	75mm	2mm	2mm	11,54	8,69	56,01	21,73	1,785
FP106	95mm	1.7mm	1.7mm	15,13	9,54	90,05	23,85	1,835
FP107	95mm	2mm	2mm	16,92	10,53	96,69	26,34	2,001
FP108	115mm	1.7mm	2mm	21,05	11,43	146,54	28,57	2,081
FP109	115mm	2mm	3mm	24,60	12,79	171,14	31,77	2,343
FP110	135mm	1.7mm	2.2mm	27,51	13,08	219,98	32,71	2,291
FP111	135mm	2.2mm	4mm	33,15	14,87	272,66	37,19	2,684
FP112	155mm	2.2mm	2.3mm	35,11	15,42	316,68	38,56	2,594
FP113	155mm	2.4mm	4.5mm	41,83	16,88	391,21	42,20	2,963
FP114	175mm	2.4mm	2.4mm	45,10	18,71	447,36	46,78	3,004
FP115	175mm	2.6mm	5mm	51,78	19,54	544,51	48,85	3,327
FP116	195mm	2.6mm	2.5mm	56,50	22,24	613,16	55,61	3,449
FP117	195mm	2.8mm	5mm	63,09	23,02	726,42	57,56	3,756
FP118	215mm	2.8mm	3mm	71,82	26,19	840,60	65,26	3,915
FP119	215mm	2.8mm	6mm	78,78	26,35	1002	65,87	4,283

YATAY KAYIT PROFİLLERİ / TRANSOM PROFILES

PR. NUMARASI PROFILE NO.	PR. DERİNLİĞİ PROFILE DEPTH	ET KALINLIĞI WALL THICKNESS	SIRT ET KALINLIĞI BACK WALL THICKNESS	Wx (cm ³)	Wy (cm ³)	Jx (cm ⁴)	Jy (cm ⁴)	AĞIRLIK WEIGHT (kg/m)
FP151	5.5mm	1.7mm	1.7mm	0,38	1,33	0,56	3,32	0,567
FP152	20mm	1.7mm	1.7mm	1,40	3,18	2,91	7,95	0,933
FP153	40mm	1.7mm	1.7mm	4,12	4,82	11,79	12,05	1,123
FP154	50mm	1.7mm	1.7mm	5,69	5,37	18,59	13,43	1,161
FP155	60mm	1.7mm	1.7mm	7,78	6,41	28,79	16,02	1,308
FP156	80mm	1.7mm	1.7mm	11,77	8,16	56,17	20,41	1,515
FP157	100mm	1.7mm	1.7mm	16,13	9,75	94,45	24,38	1,699
FP158	120mm	1.7mm	2mm	20,99	11,34	145,28	28,34	1,884
FP159	140mm	2mm	2mm	28,95	14,49	225,73	36,21	2,289
FP160	160mm	1.6mm	2mm	32,34	14,24	287,61	35,61	2,227
FP161	160mm	2.1mm	2.1mm	36,81	17,00	322,46	42,51	2,601
FP162	180mm	2.1mm	2.1mm	44,37	18,93	431,76	47,33	2,828
FP163	200mm	2.1mm	3mm	57,86	21,31	634,38	53,27	3,230
FP164	220mm	2.4mm	3mm	70,03	25,84	832	64,60	3,785

MALZEME TEKNİK ÖZELLİKLERİ / TECHNICAL PROPERTIES OF MATERIALS

Alüminyum profil üretim tesisimiz **ISO 9001**, **ISO 14001**, **OHSAS 18001** ve **ISO/IEC 27001** kalite güvence belgelerine sahiptir.

1-Profil Hammaddesi (*Raw Material*) : AA 6063 (AlMgSi 0.5 F22) , **EN 573-3**

2-Mekanik Özellikler (*Mechanical Properties*) : **EN 755-2**

Yoğunluk (*Density*) : 2.71 g/cm³

Elastisite Modülü (*Elasticity Modul*) : 7000 kN/cm²

Kopma Mukavemeti (*Yield Strenght*) : 215 N/mm²

Akma Mukavemeti (*Flow Strenght*) : 160 N/mm²

Uzama (*Elongation*) : minimum 6 %

Sertlik (*Hardness*) : 70 HRB

3-Bariyer Hammaddesi

a-PA 66 GF 25 (25 % cam elyaf takviyeli polyamid) (*25 % the manufactured from glass stiffened polyamide*): Eloksal ve toz boyası işleminden önce yerleştirilir. (*Placed into the aluminium profiles before anodic oxidation and powder coating.*)

b- PVC :

Eloksal ve toz boyası işleminden sonra yerleştirilir. (*Placed into the aluminium profiles after anodic oxidation and powder coating.*)

PVC bariyerler, Polyamid bariyerlere göre 10 % daha ağırdır. (*PVC insulation bars are 10 % heavier than Polyamide insulation bars .*)

4-Eloksal (*Anodic Oxidation*)

Eloksallı Ürünlere İlişkin Teknik Resim Standardı : **DIN 17611** , **EN 12371-1 (QUALANOD)**

(*The Standards of Technical Delivery Terms Regarding Eloxal Products*)

Eloksal Tabakasının Kalınlığı (*Thickness of Eloxal Coating*): 10-15 mikron, **EN ISO 2360**

Daldırma ve Renklendirme Standardı (*The Standards of Immersion Coloring*) : **DIN 50018**

Tesbit İşlemi Standardı (*Sealing Standards*) : **EN 12373-5** , **ISO 3210 (TS 2676)**

5-Toz Boya Standartları (*The Standards of Powder Coating*)

Kalınlık (*Thickness*) : min. 60 mikron

Adhezyon (*Adhesion*) : **EN ISO 2409**

Esneklik (*Elasticity*) : **EN ISO 1519**

Deformasyon (*Deformation*) : **EN ISO 6272-1**

Sertlik (*Hardness*) : **EN ISO 2815**

6-Yüzey Görünümü (*Surface Appearance*) : Gözle yapılacak kontrolde,yüzey üzerinde kaplanmış alan,çizik,pütürlük,kabarıklık,leke,soyulma vb. hatalar görülmemelidir. (*By visual observation,there has been no defects seen on the surface,such as scratches cramped shapes,swellings,stain etc. on the exposed areas.*)

7-Tüm Fitiller (*All gaskets*)

Hammaddesi (*Raw material*) : EPDM

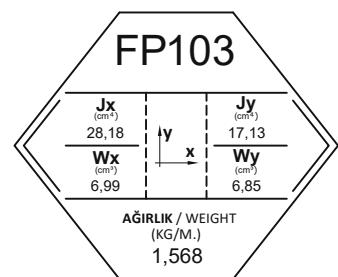
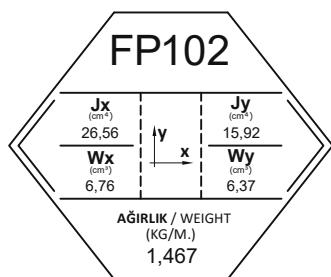
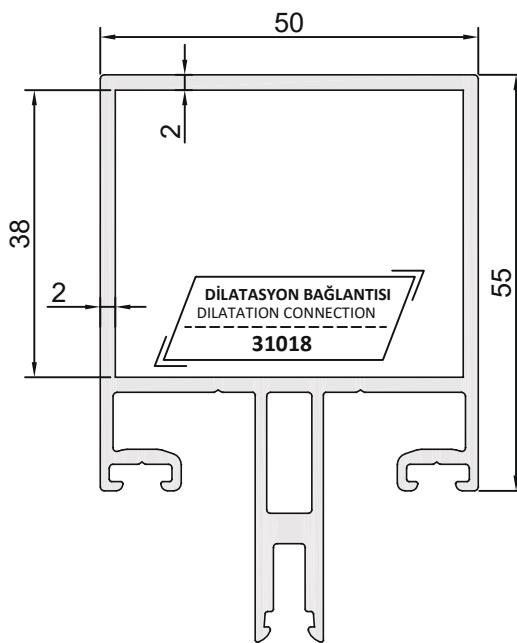
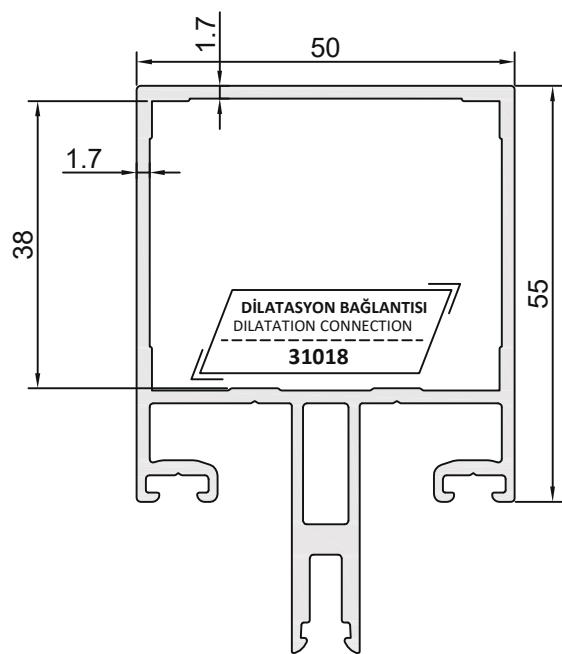
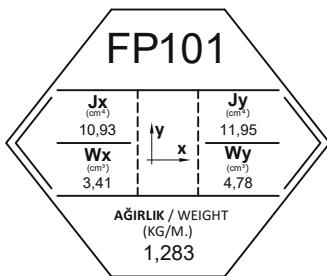
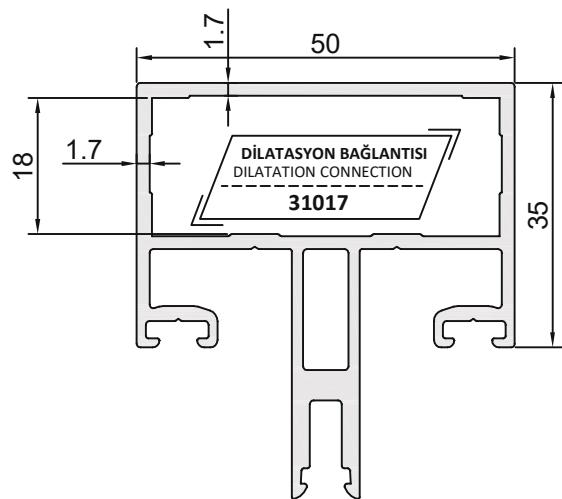
Derz fitilleri hammaddesi (*Raw material of Gaskets for suture*) : Silikon (*Silicone*)

Ölçü Toleransları Standardı (*Measurement Tolerances Standards*) : **DIN ISO 3302-1/E2**

Kalite Kontrol Standardı (*Quality Control Standard*) : **RAL-GZ 716**

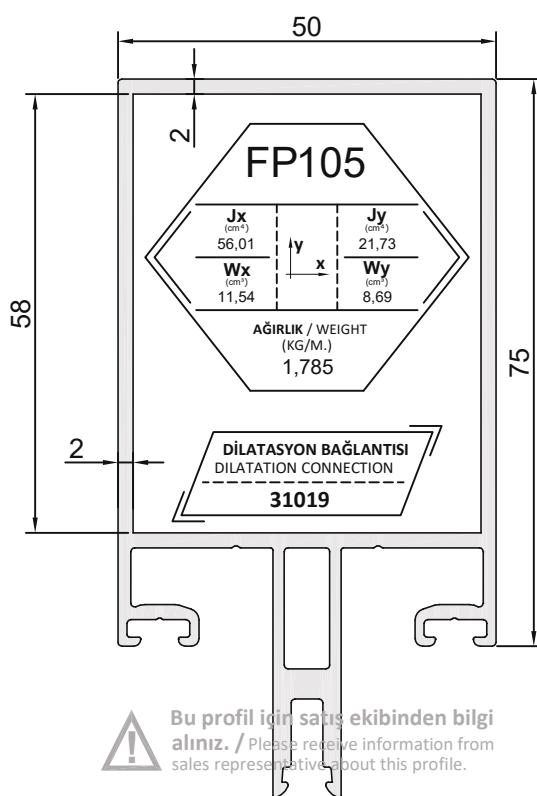
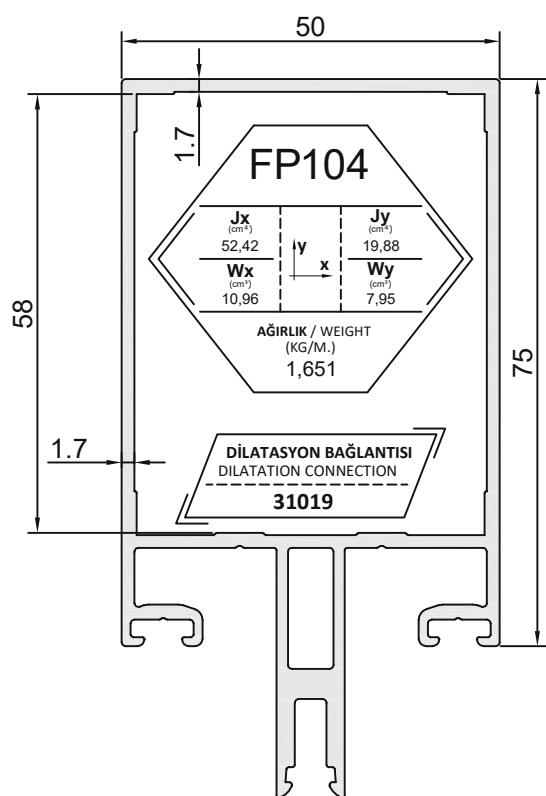
8-Profil Tasarım ve Üretimindeki Ölçü Toleransları Standartları : **EN 12020-2**

(*Measurement Tolerances Standards for Profile Design and Manufacturing*)

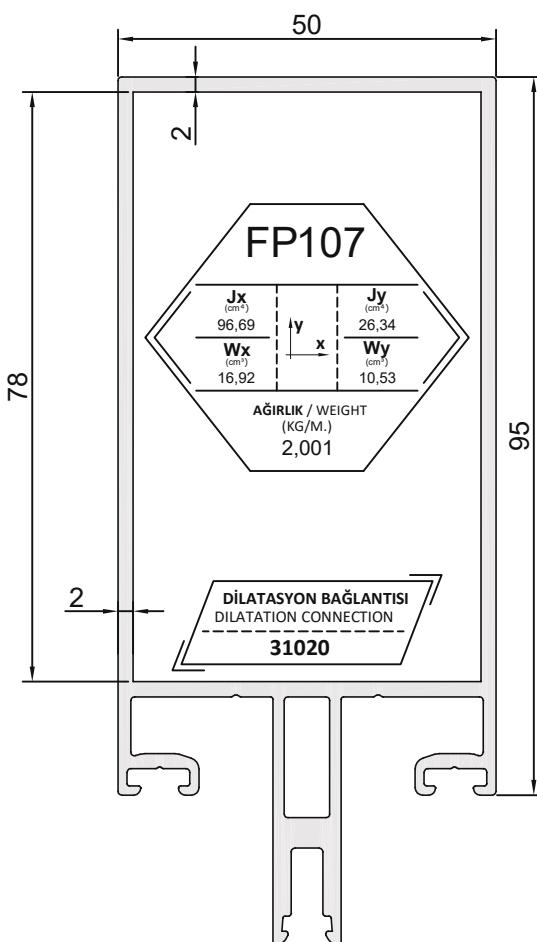
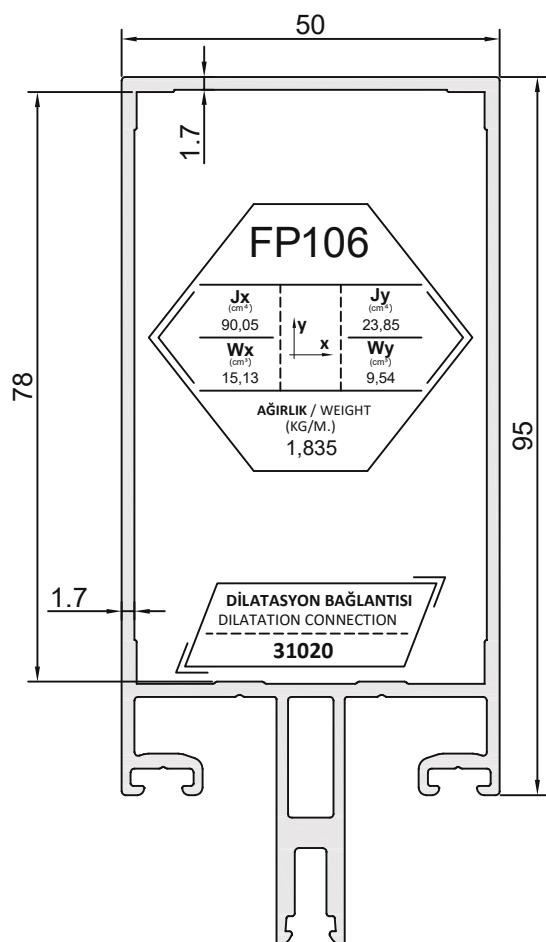


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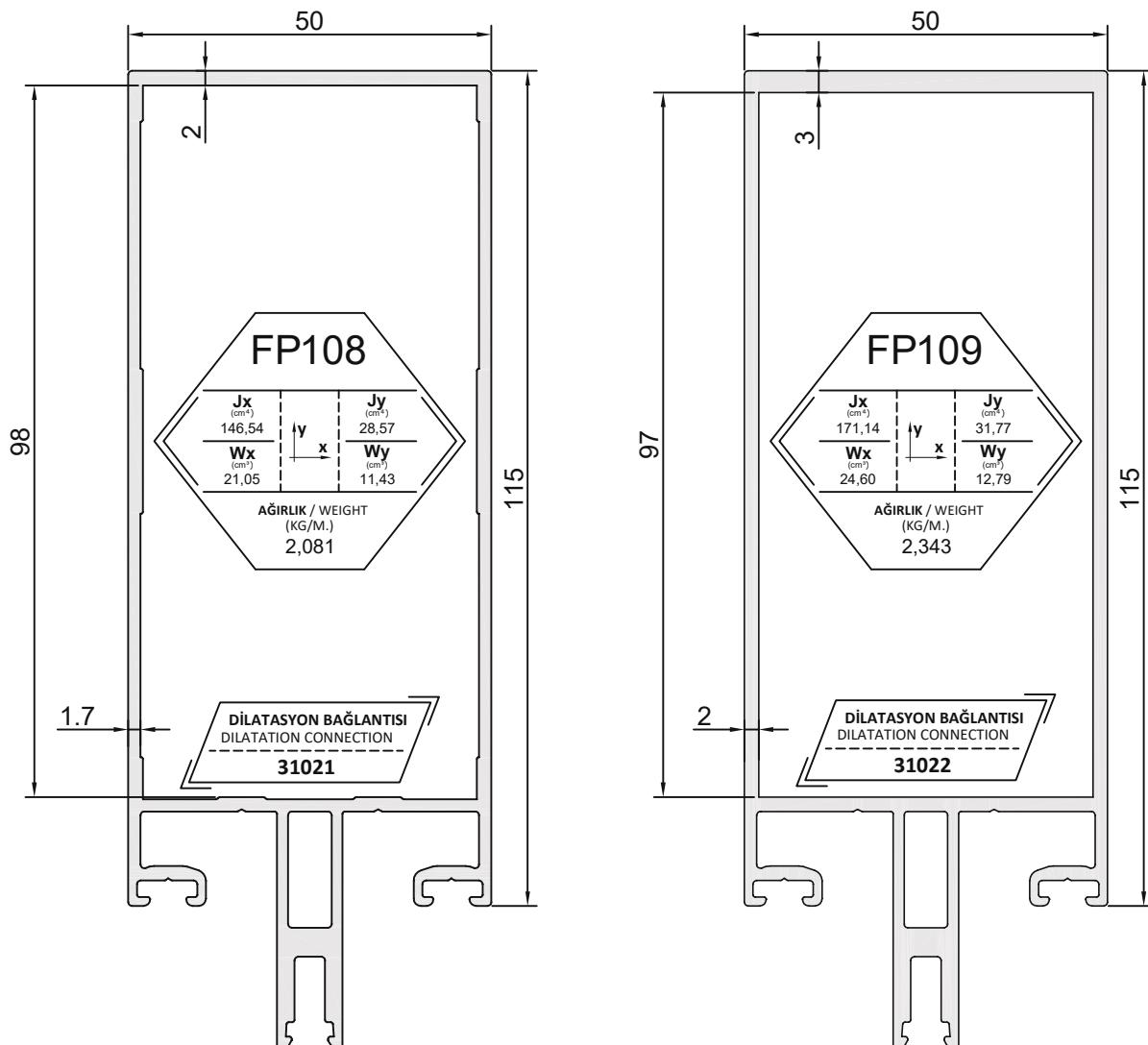
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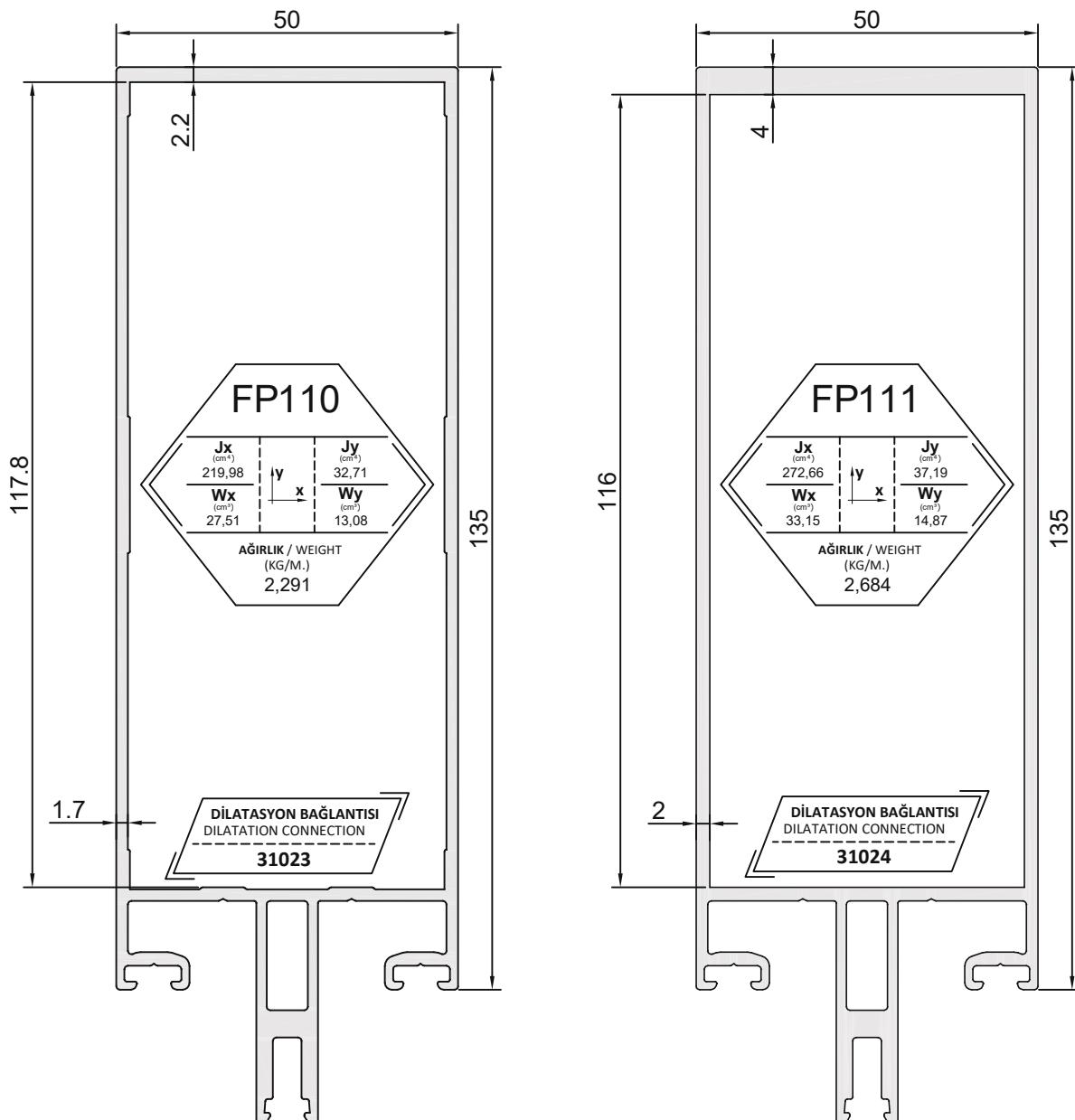
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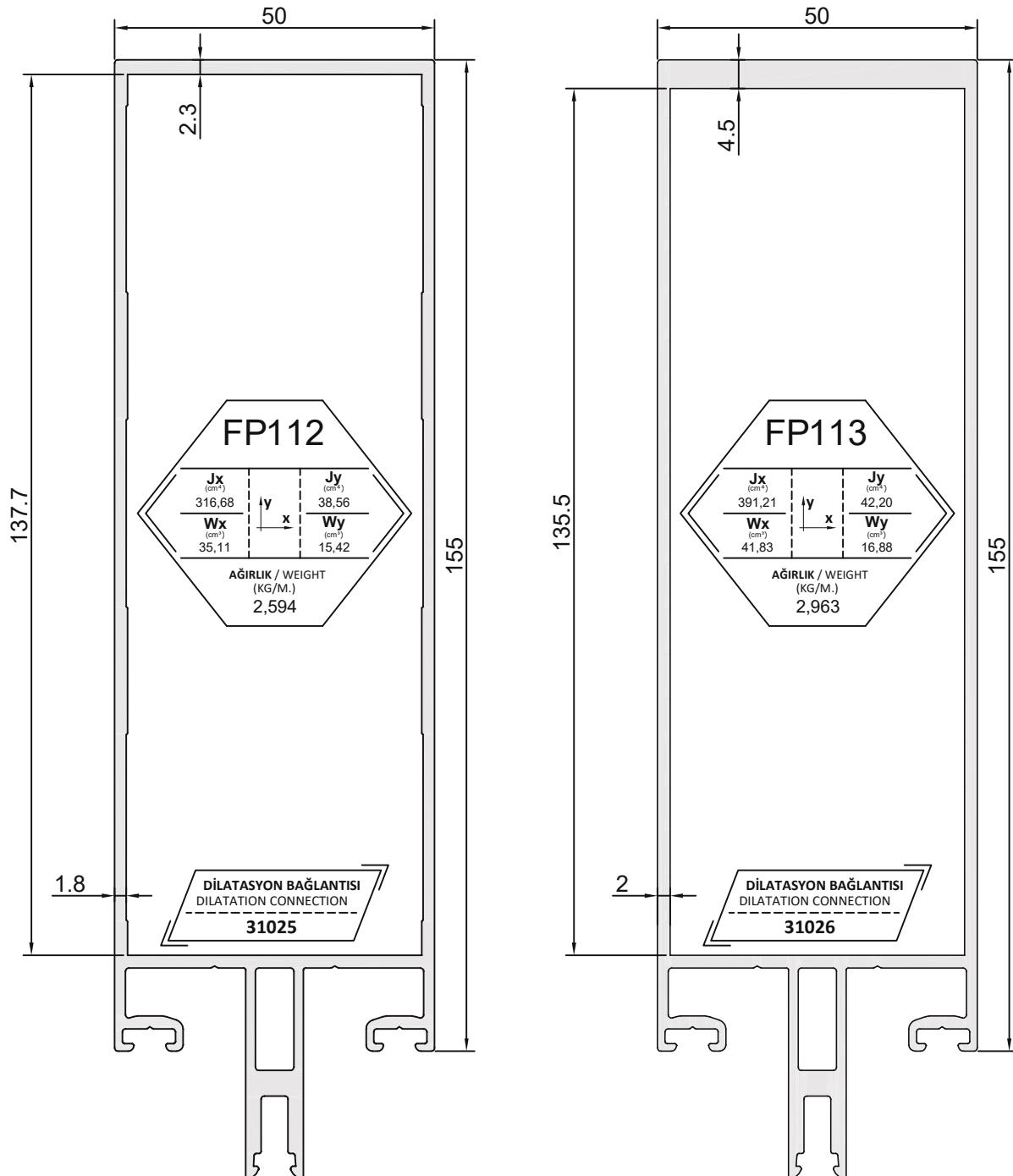
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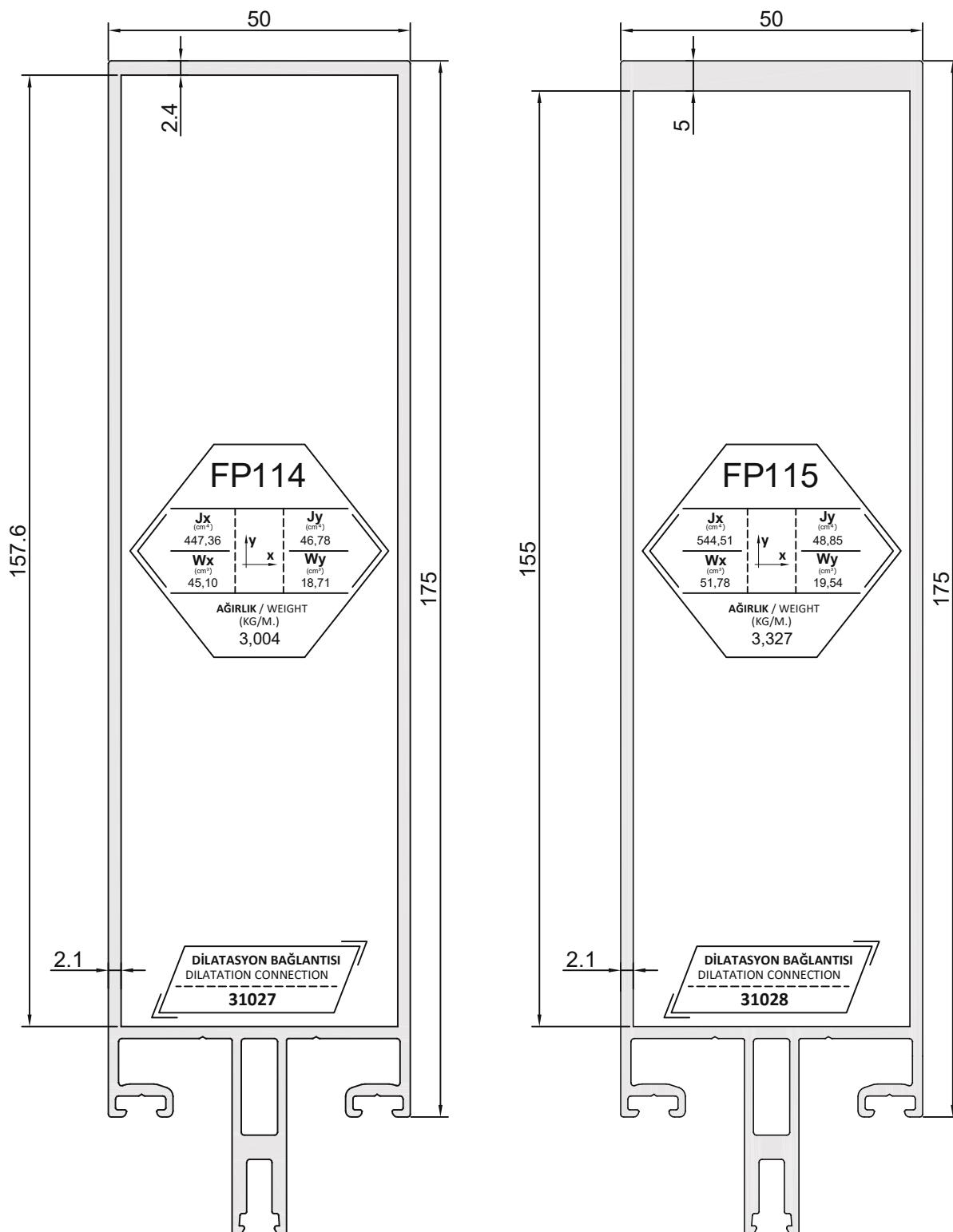
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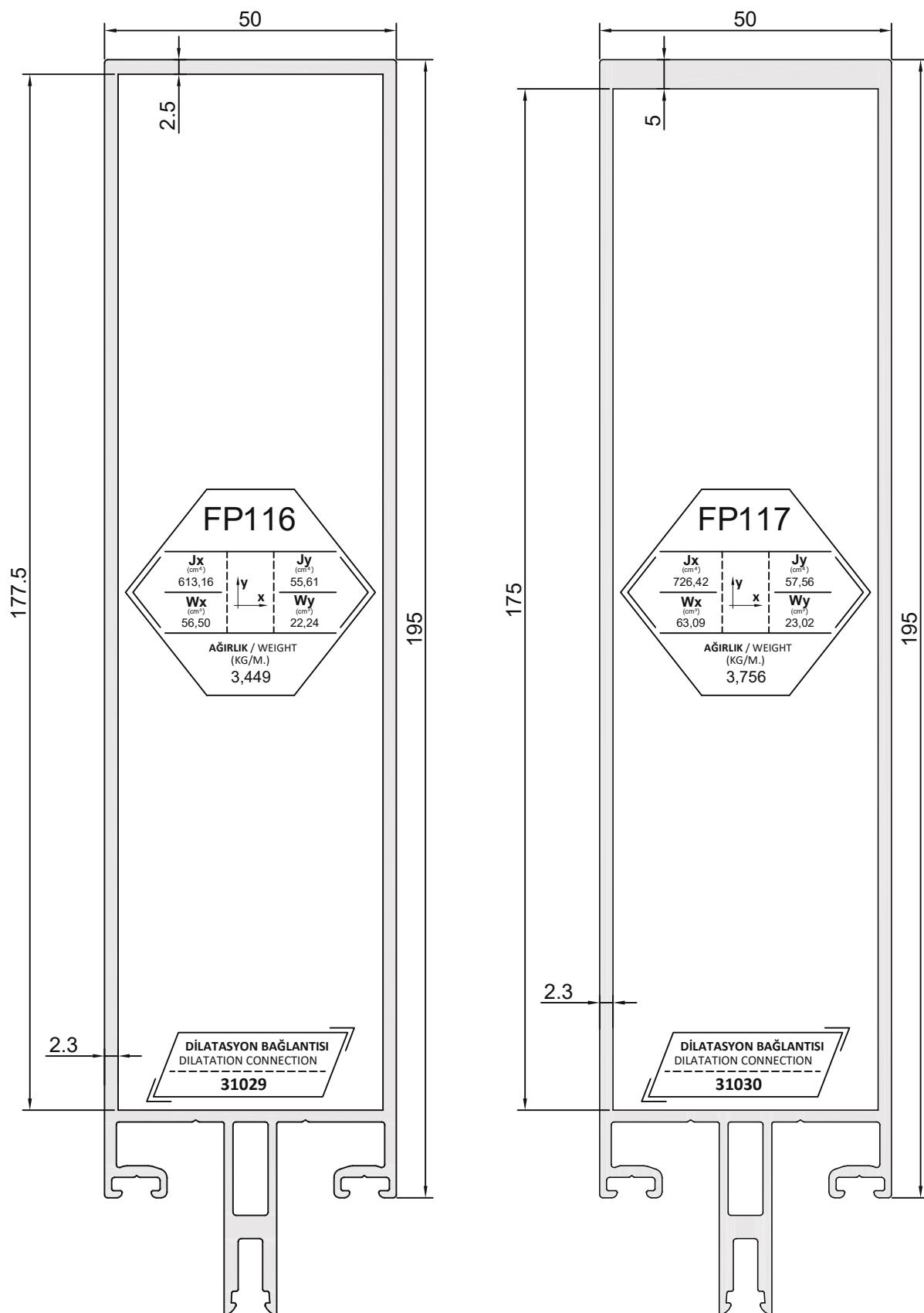
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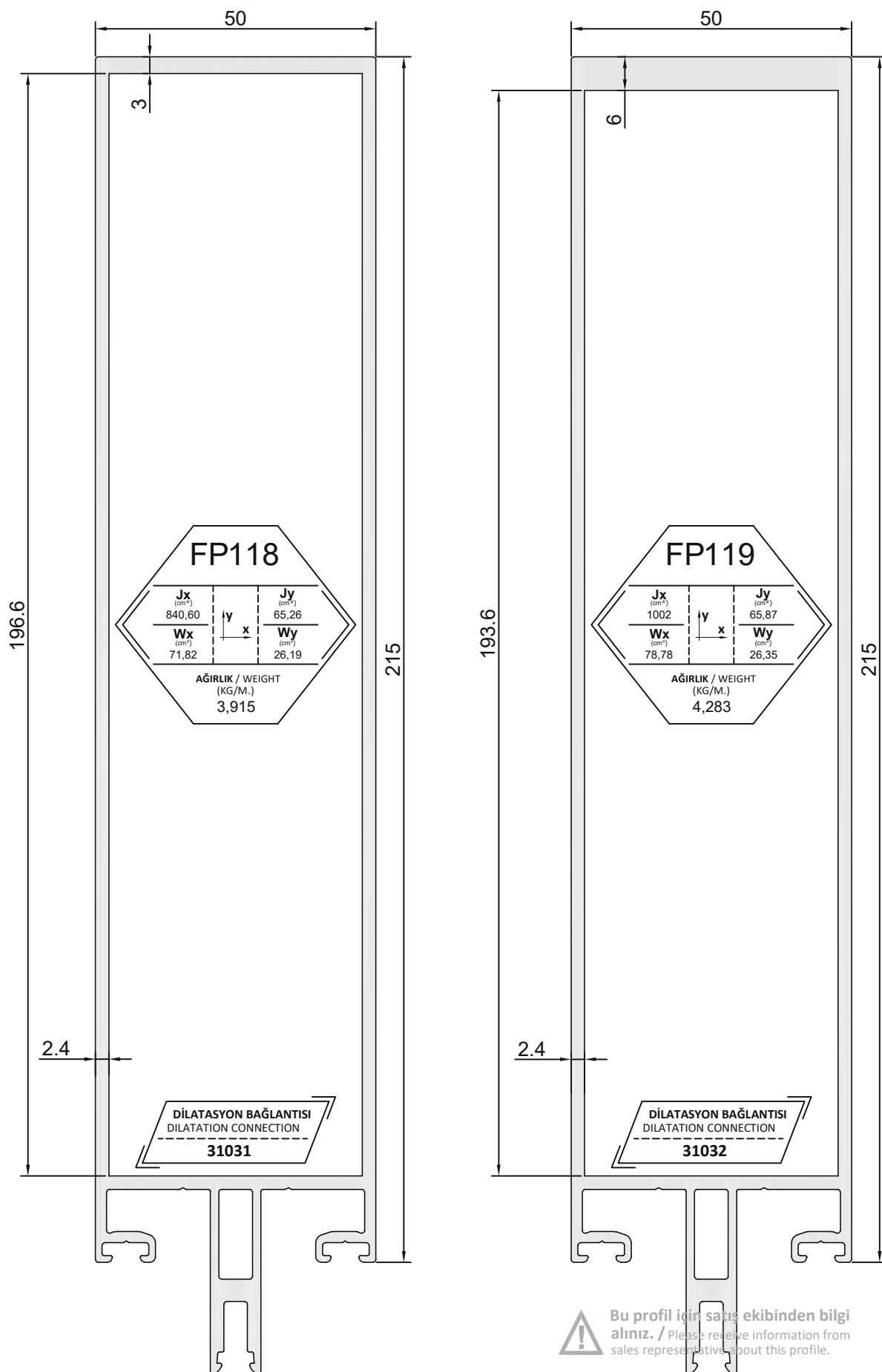


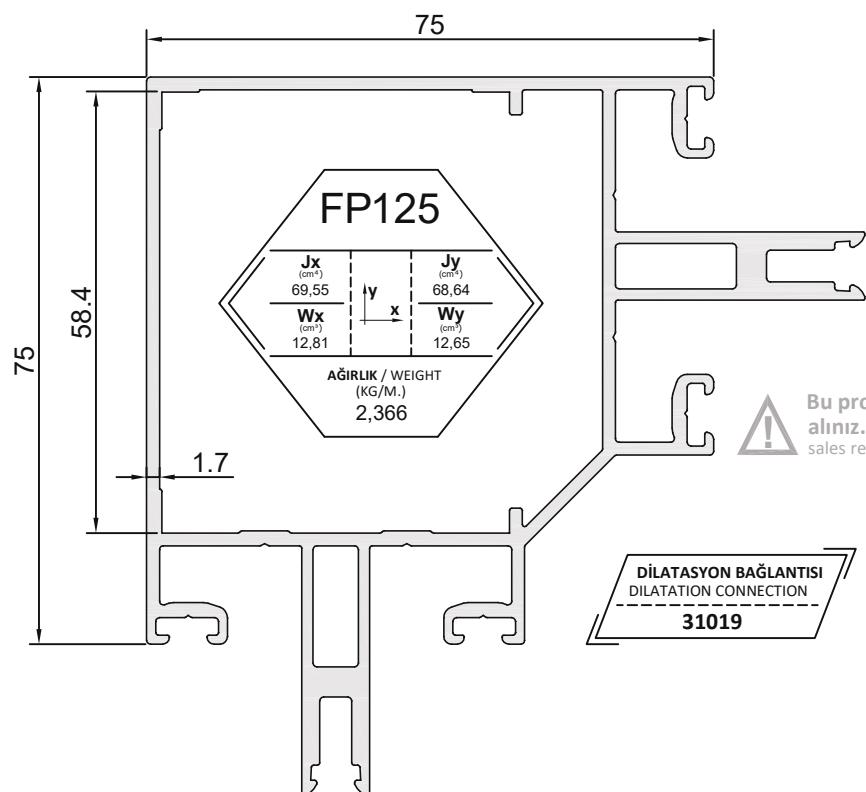
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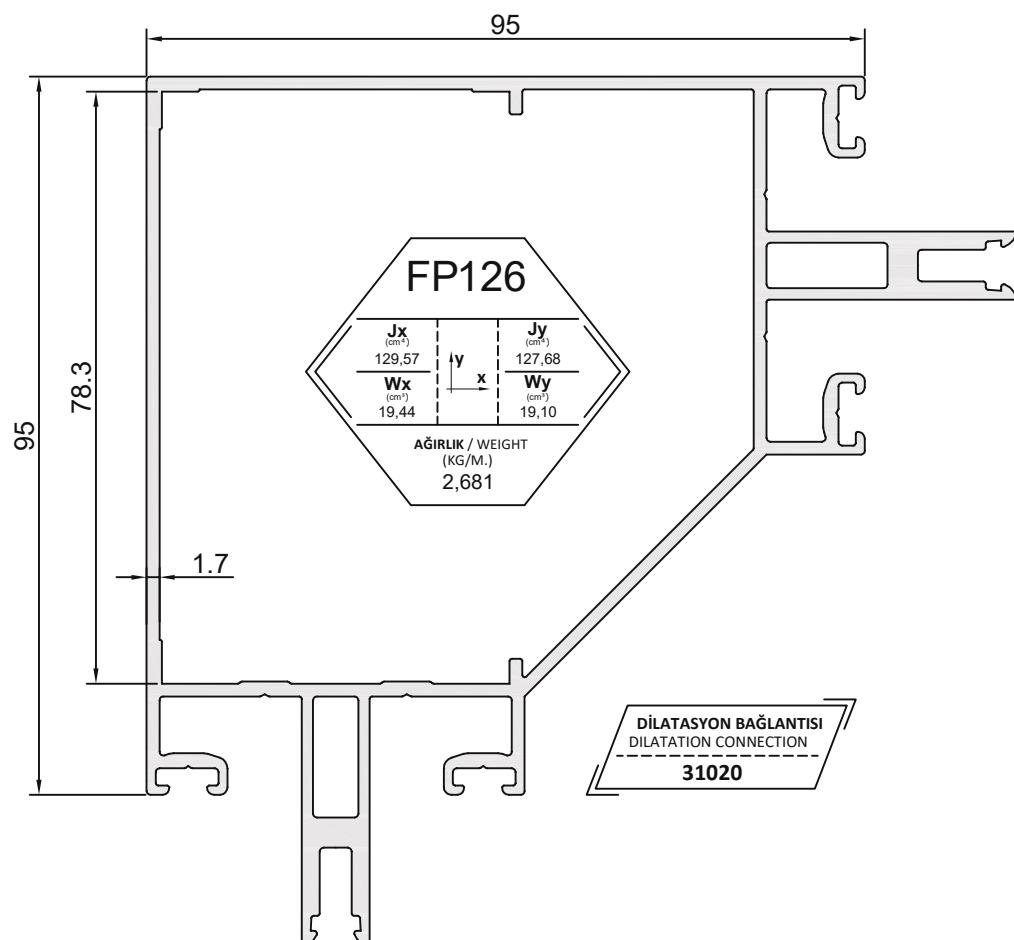
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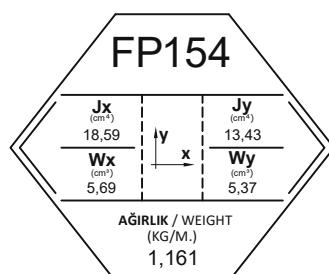
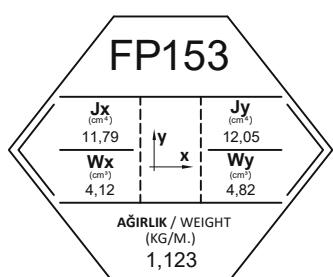
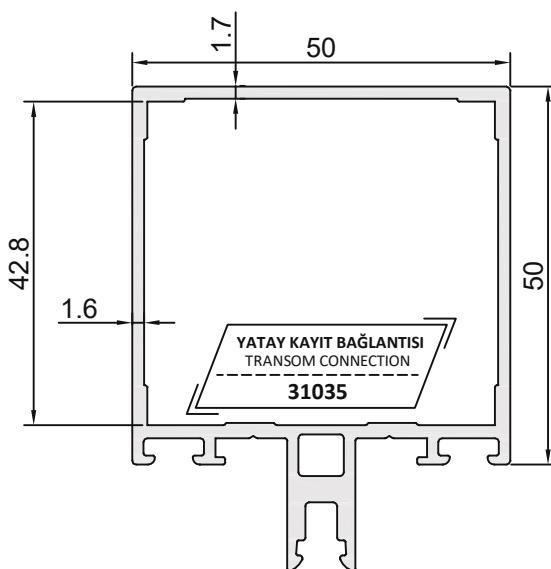
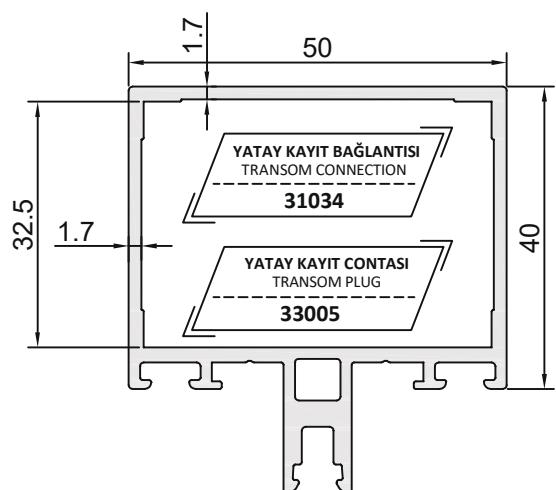
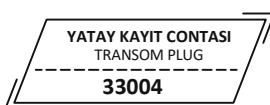
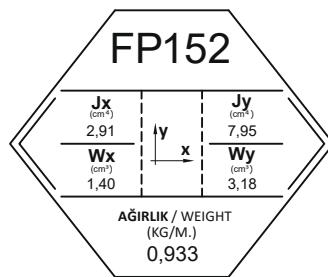
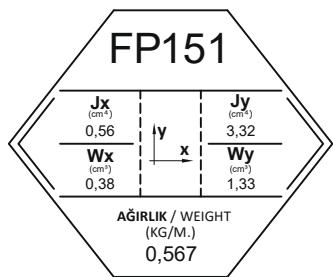
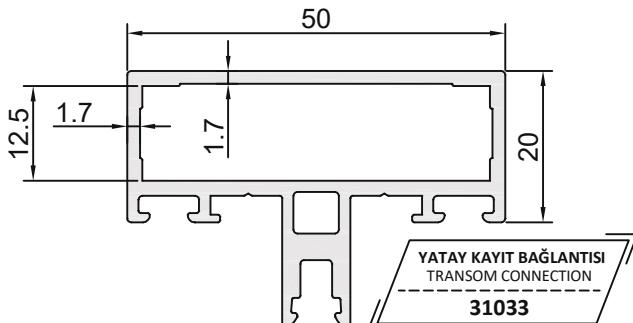
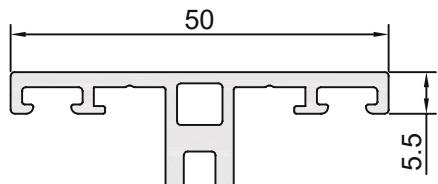
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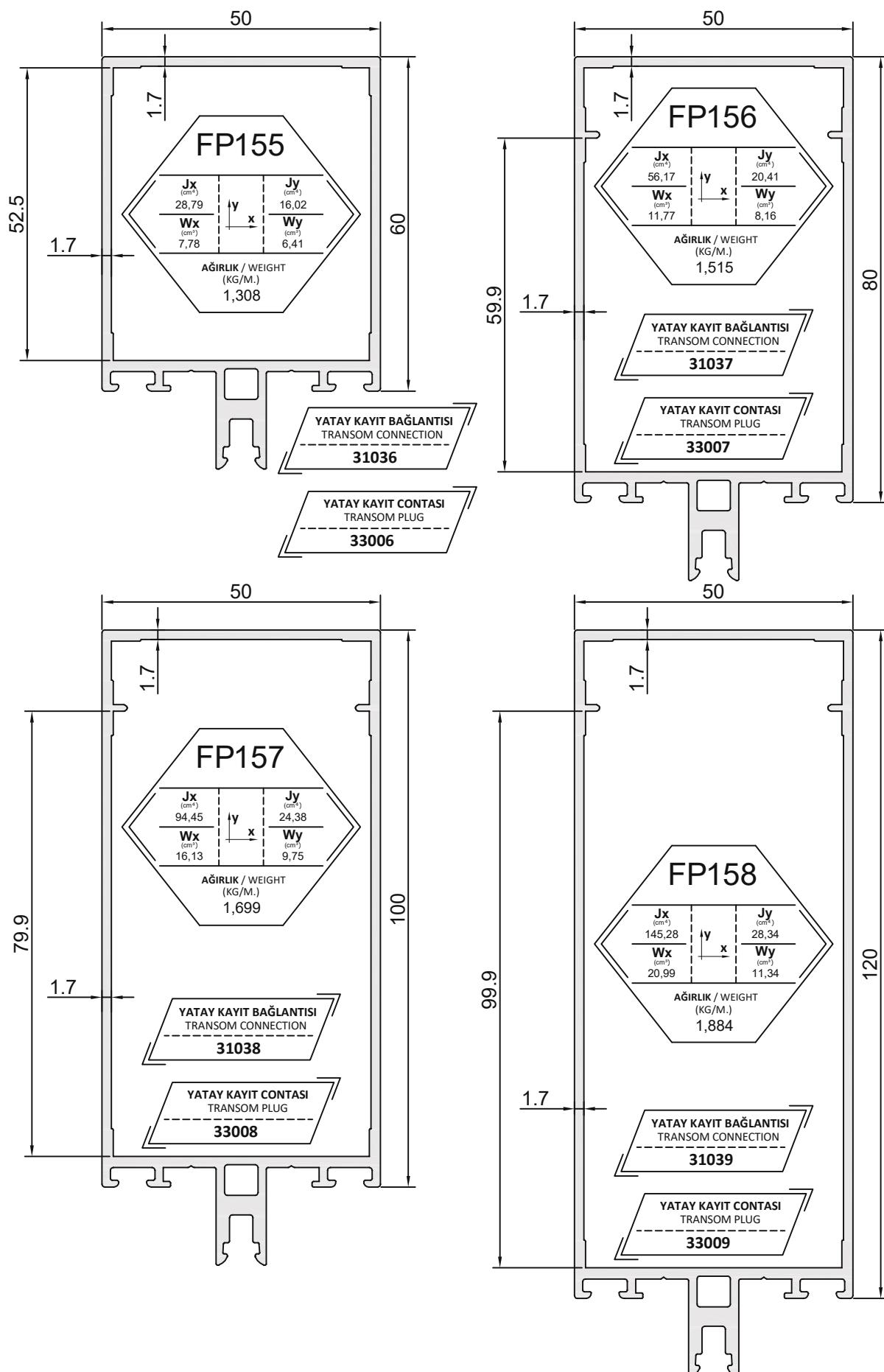


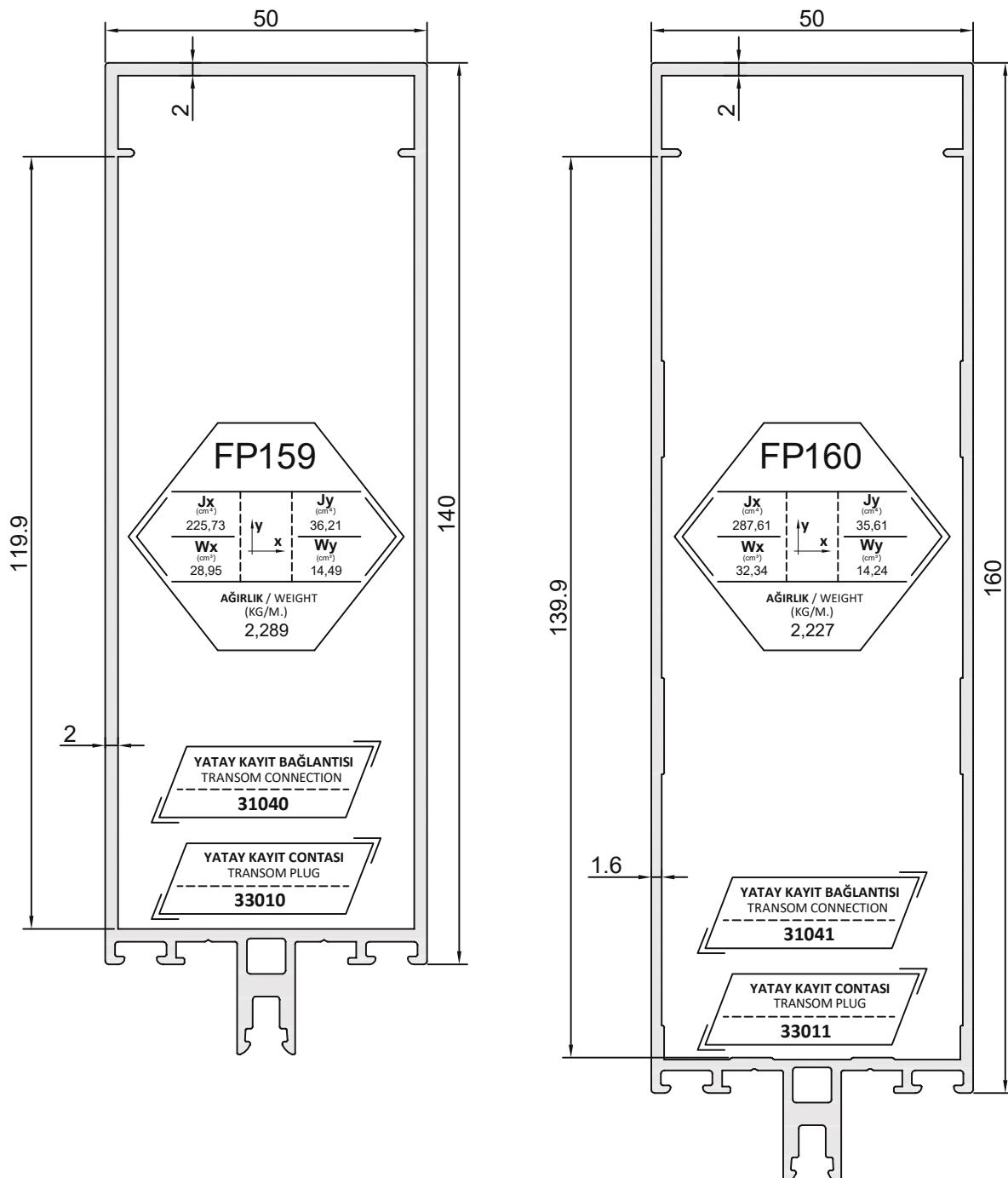


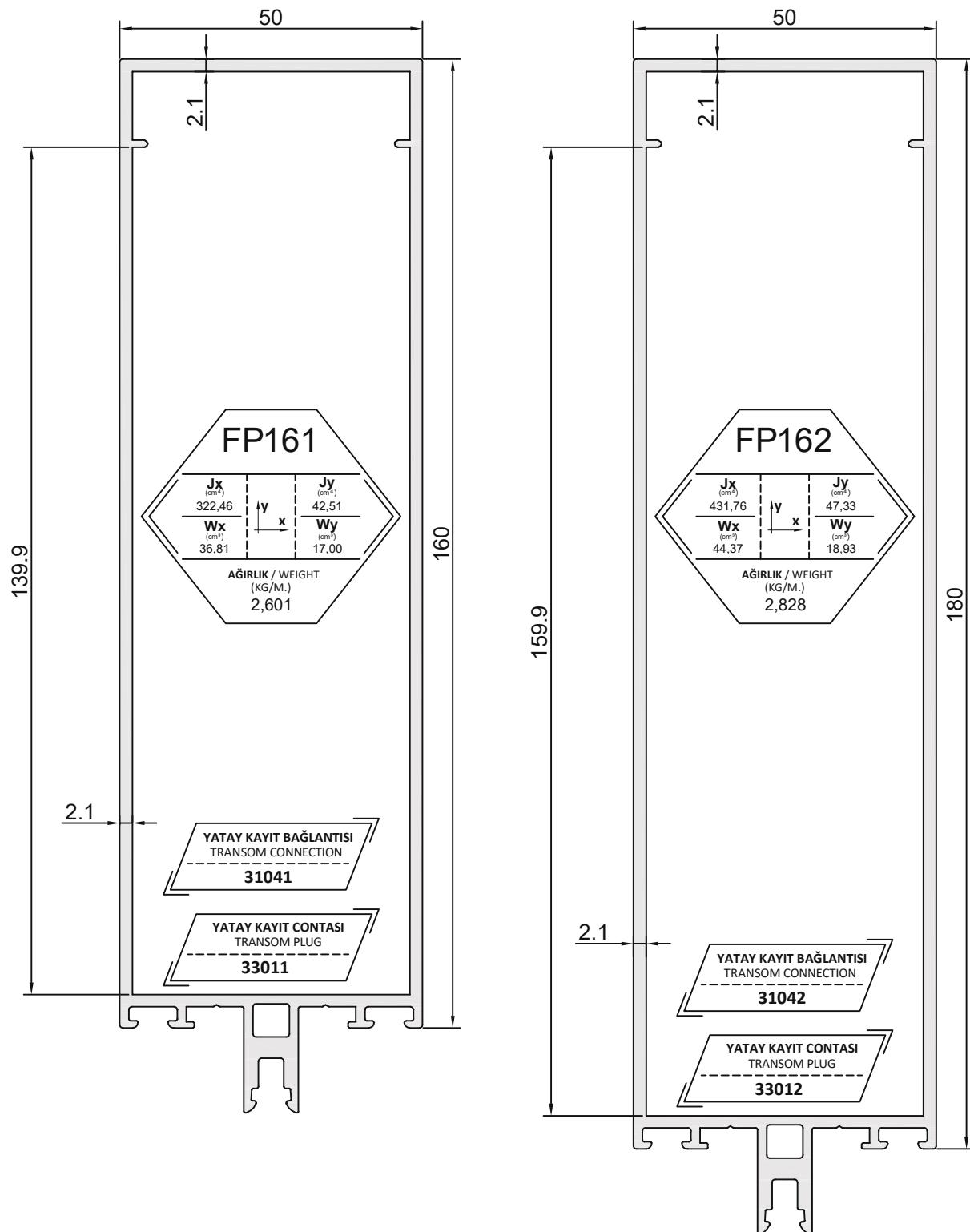
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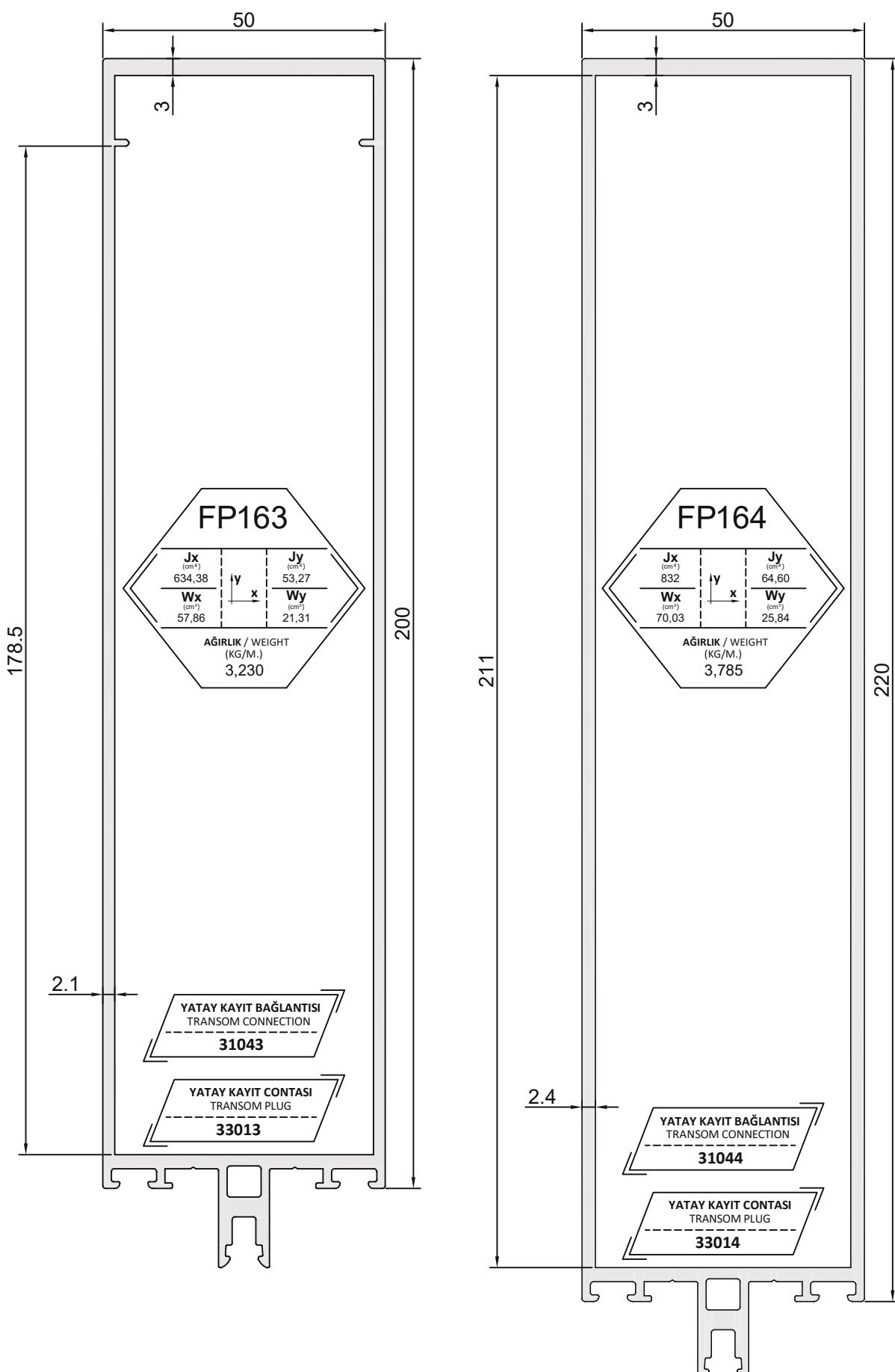


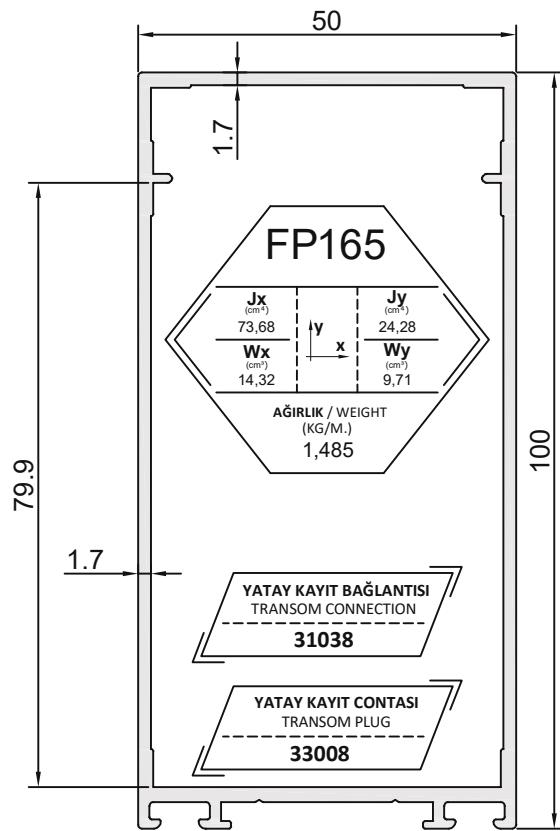
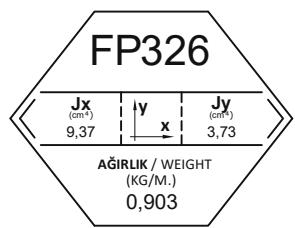
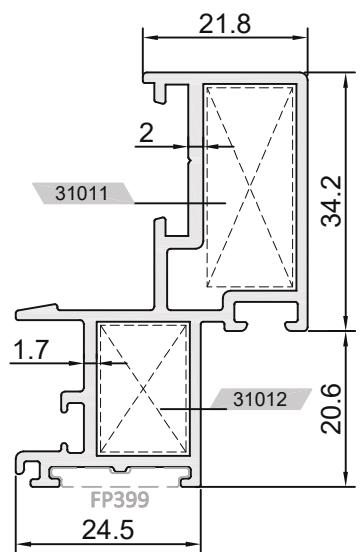
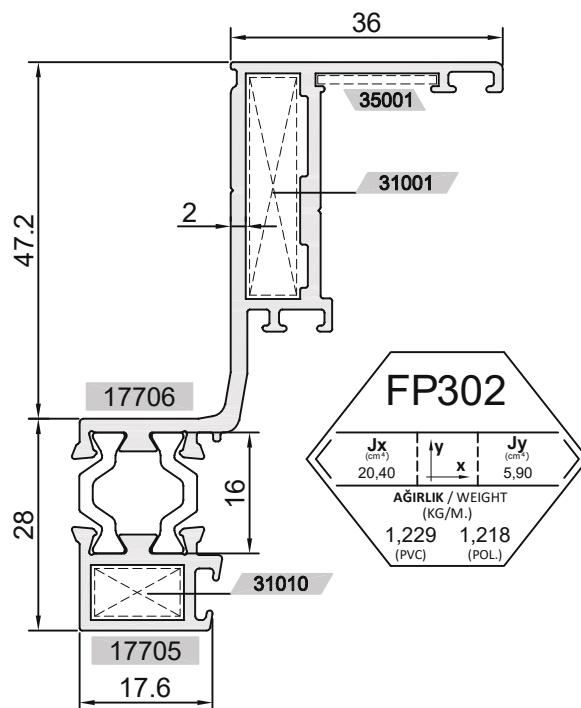
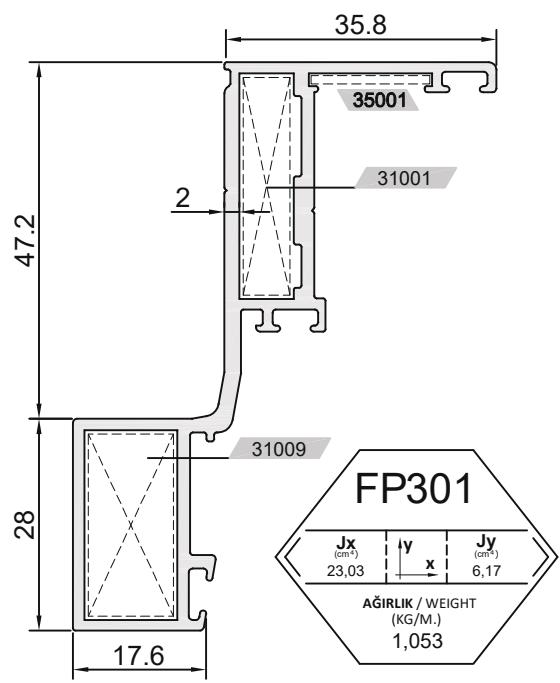




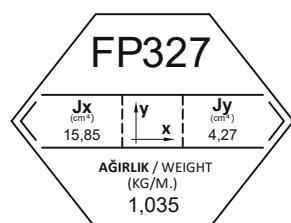
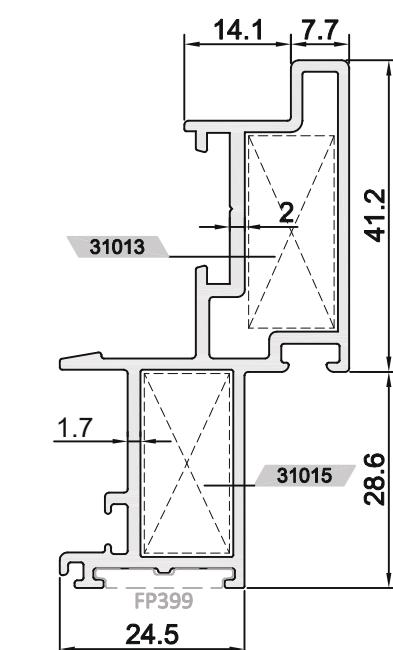
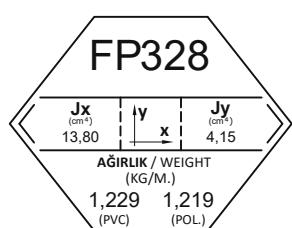
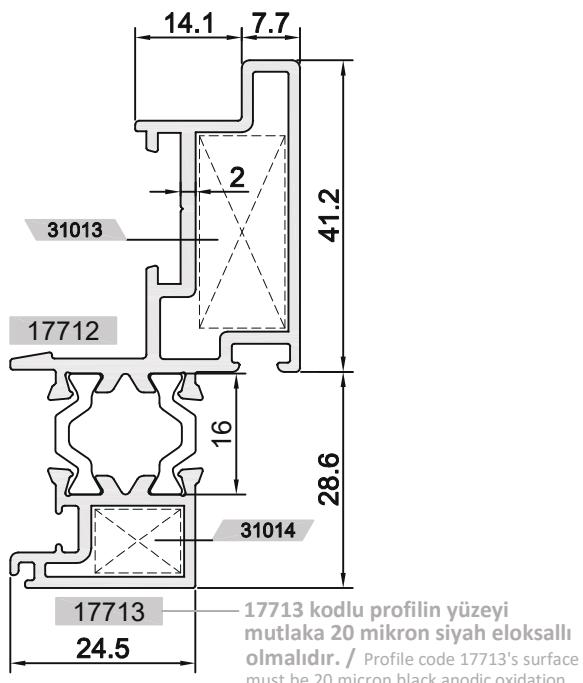
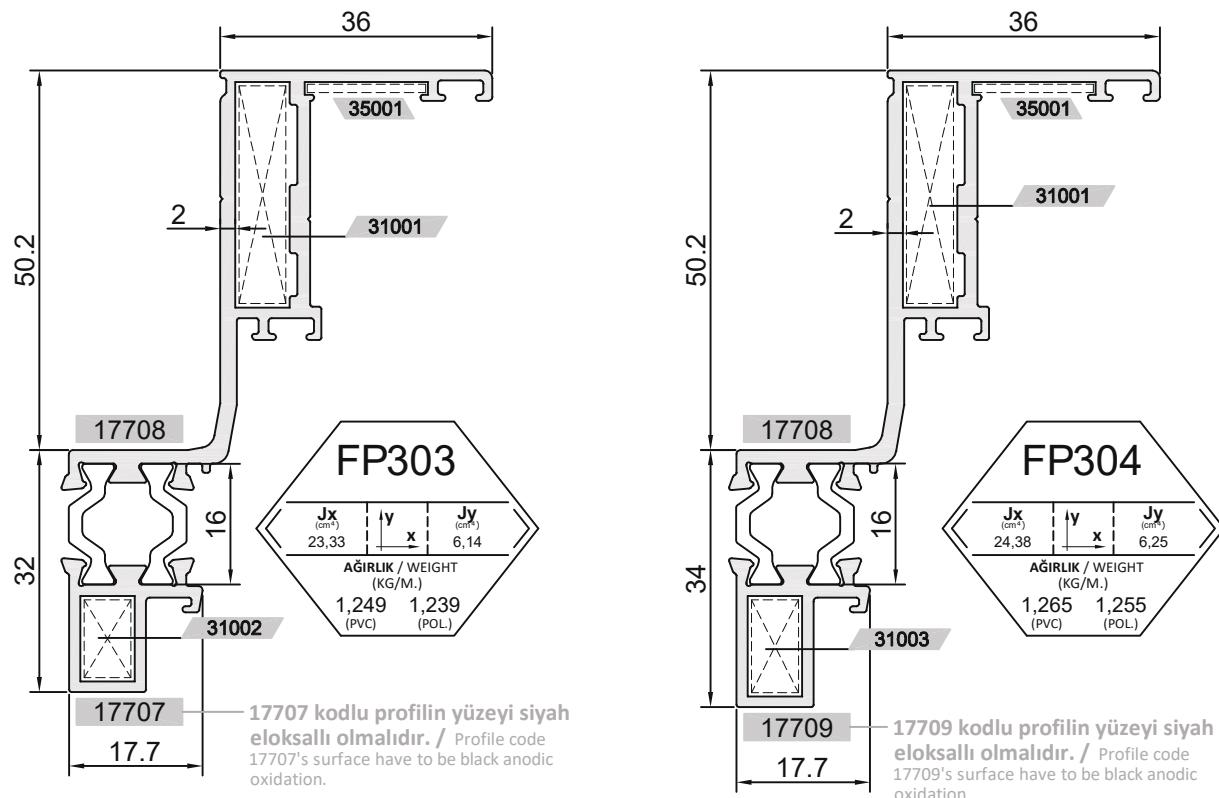


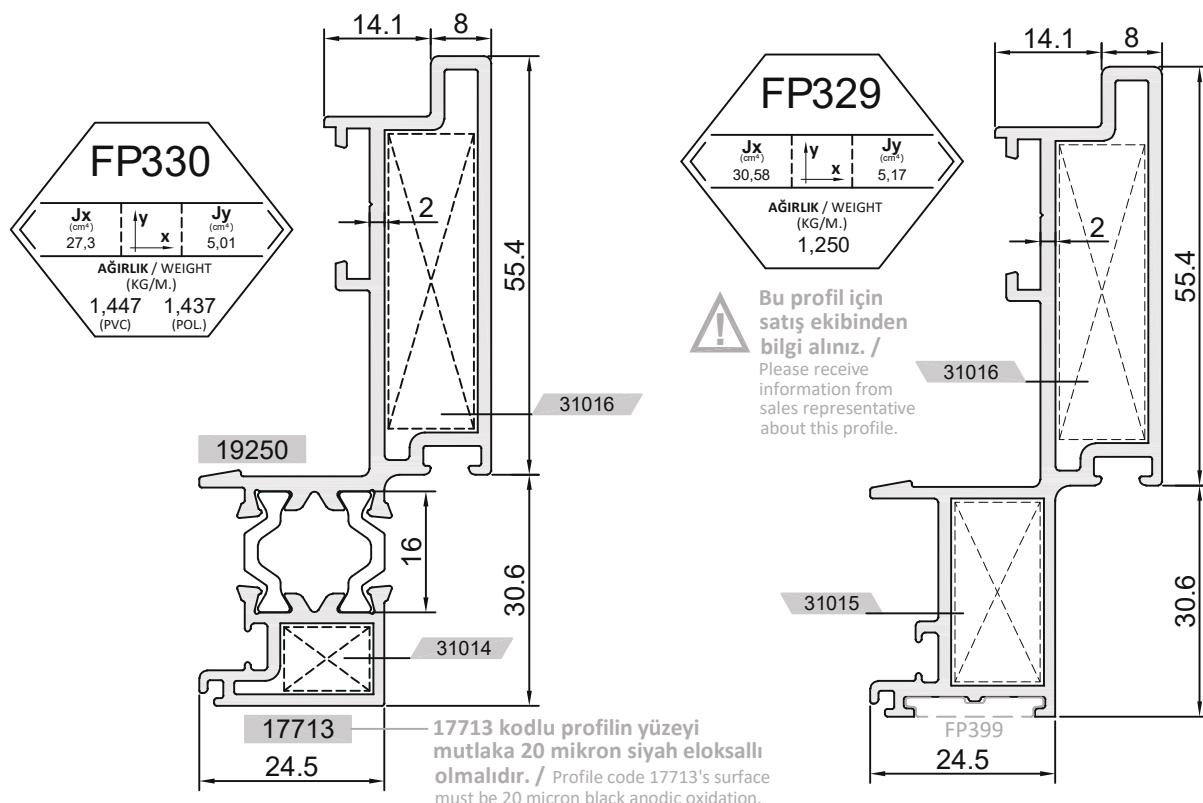
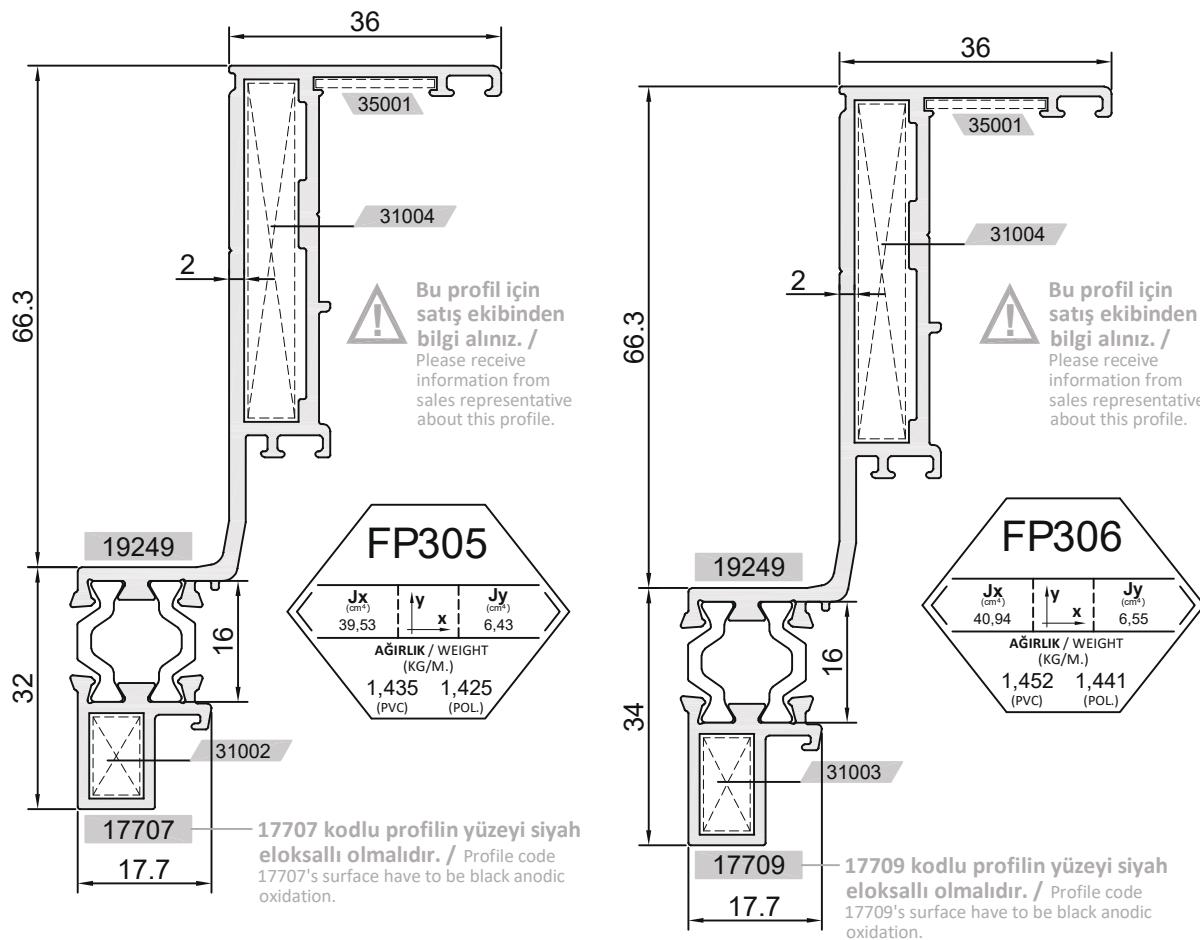
▲ F50-ENERGY



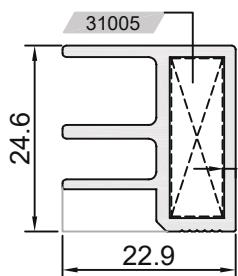


F50-ENERGY





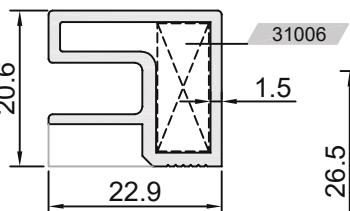
F50-ENERGY



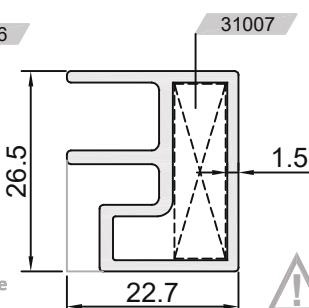
FP359 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksalli olmalıdır. / Profile code FP359's surface must be 20 micron black anodic oxidation.



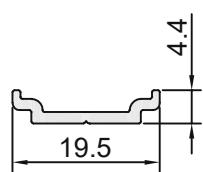
Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.



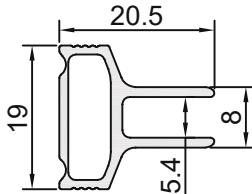
FP360 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksalli olmalıdır. / Profile code FP360's surface must be 20 micron black anodic oxidation.



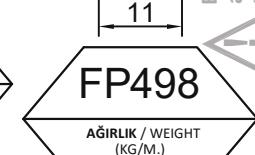
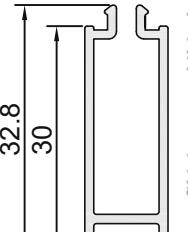
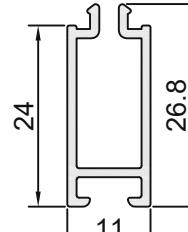
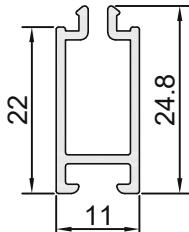
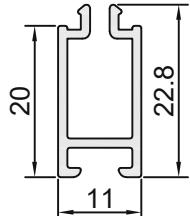
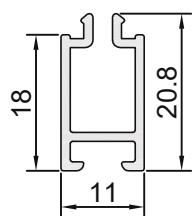
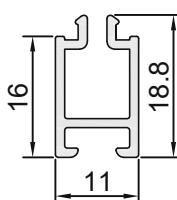
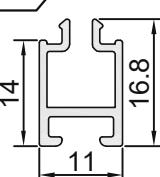
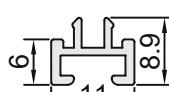
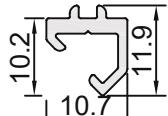
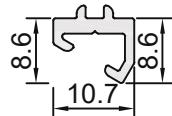
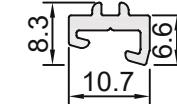
Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.



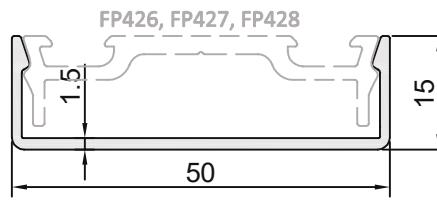
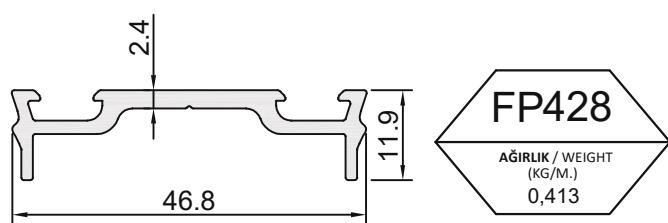
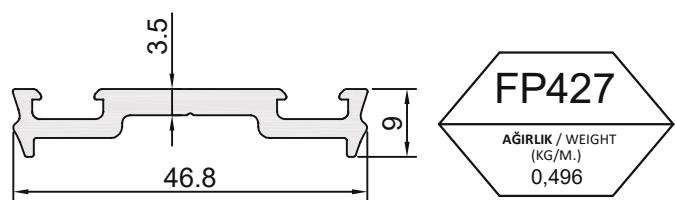
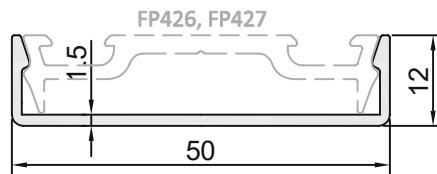
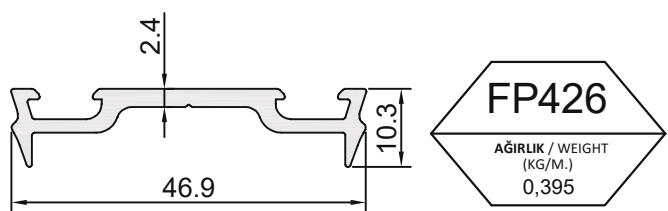
FP399 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksalli olmalıdır. / Profile code FP399's surface must be 20 micron black anodic oxidation.



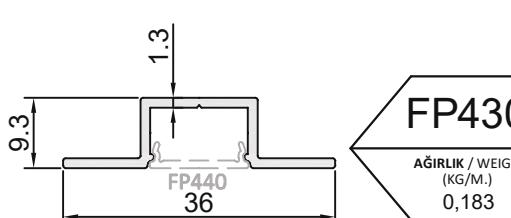
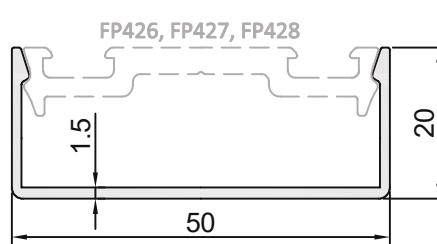
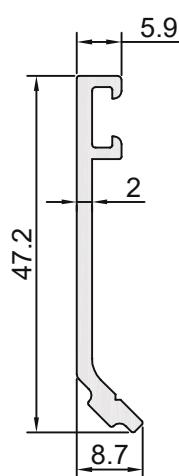
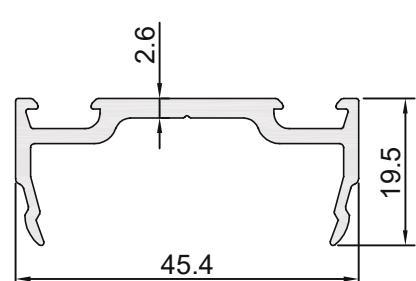
FP398 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksalli olmalıdır. / Profile code FP398's surface must be 20 micron black anodic oxidation.



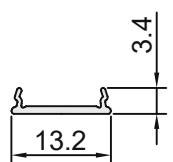
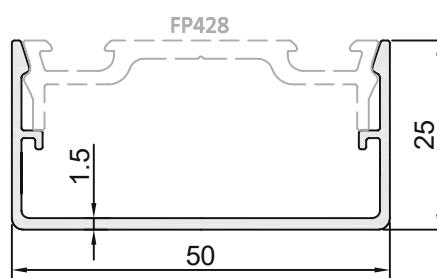
Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.



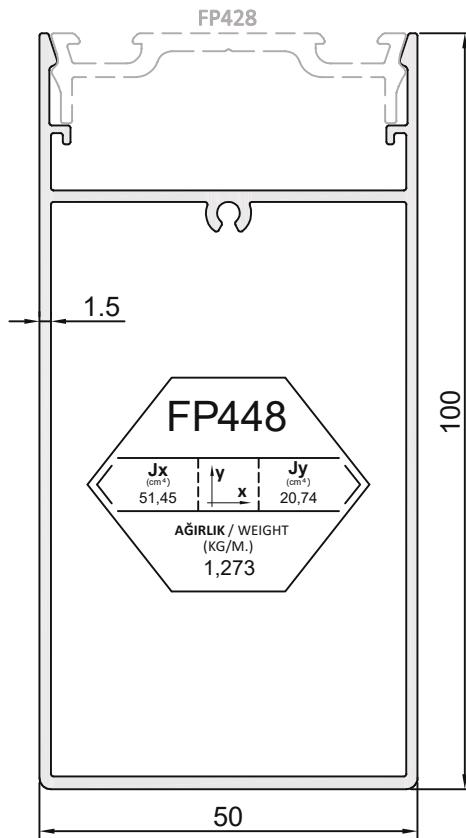
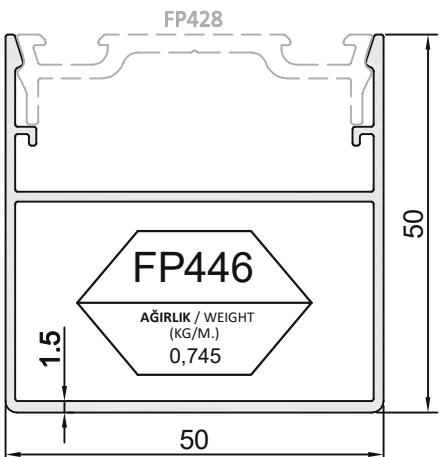
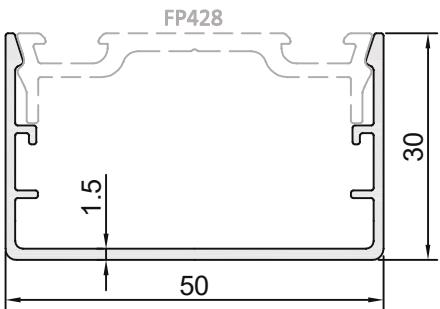
Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.



Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.



▲ F50-ENERGY



FP448

J_x
(cm⁴)
51,45

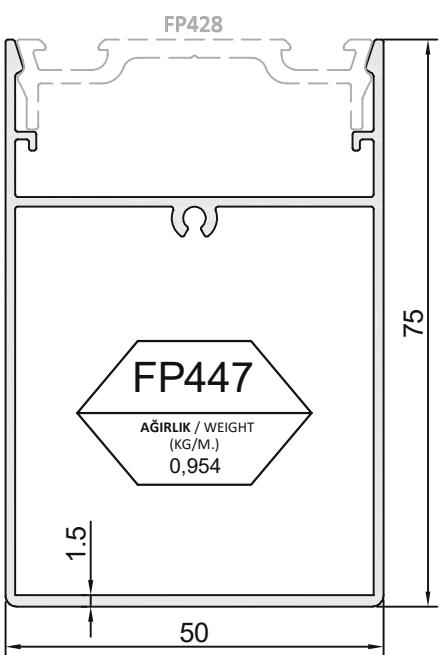
I_y
x

J_y
(cm⁴)
20,74

AĞIRLIK / WEIGHT
(KG/M.)
1,273

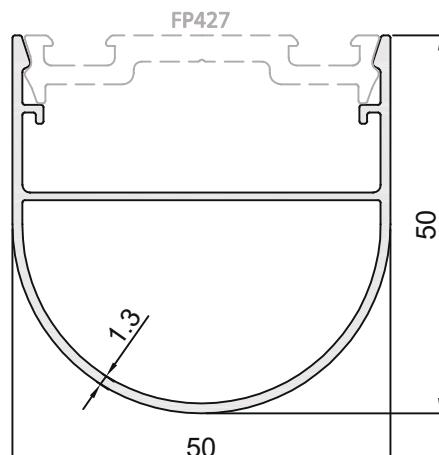


Bu profil için satış ekibinden bilgi alınınız. / Please receive information from sales representative about this profile.



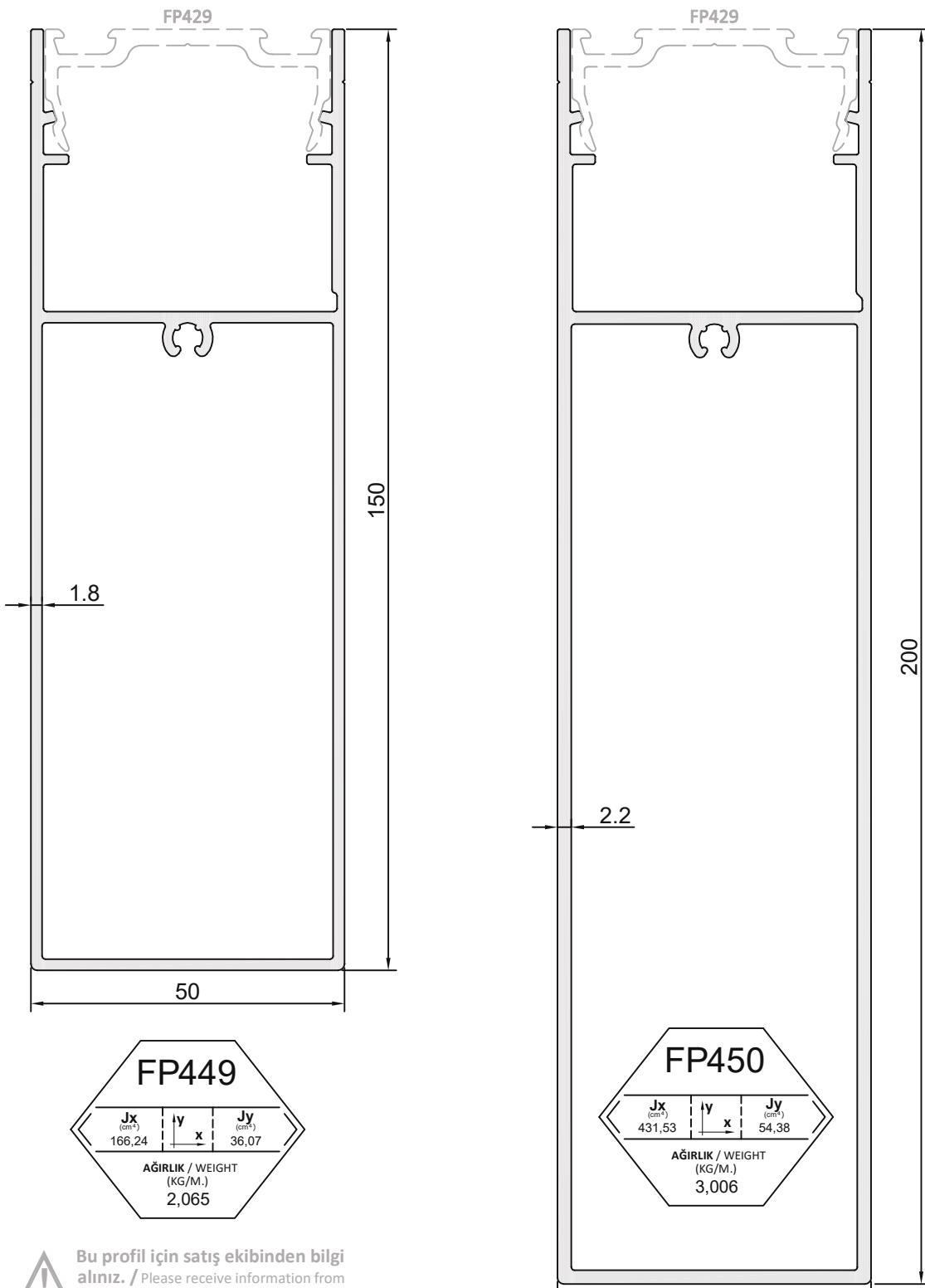
FP447

AĞIRLIK / WEIGHT
(KG/M.)
0,954



FP463

AĞIRLIK / WEIGHT
(KG/M.)
0,611

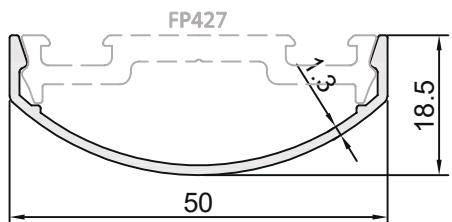


Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.

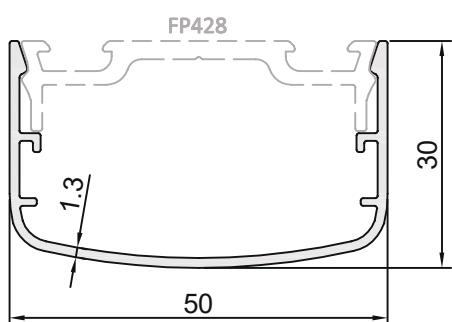


Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.

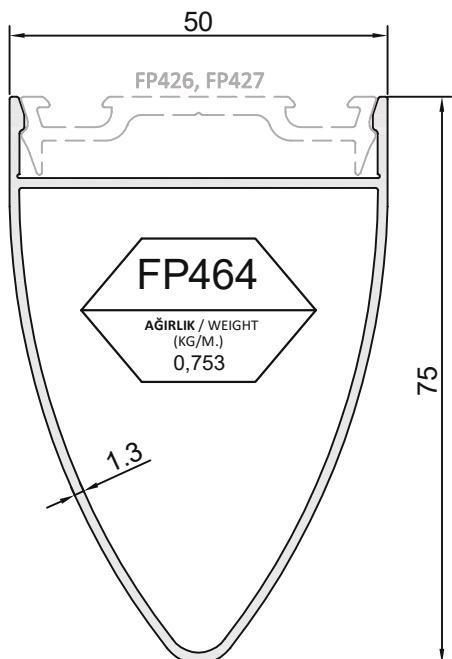
▲ F50-ENERGY



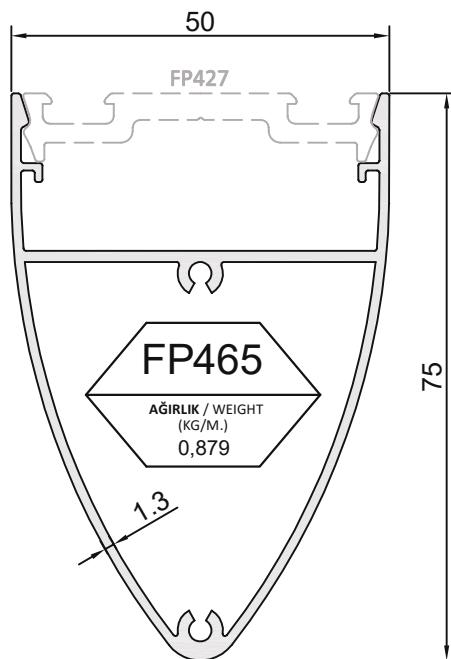
FP461
AĞIRLIK / WEIGHT
(KG/M.)
0,262



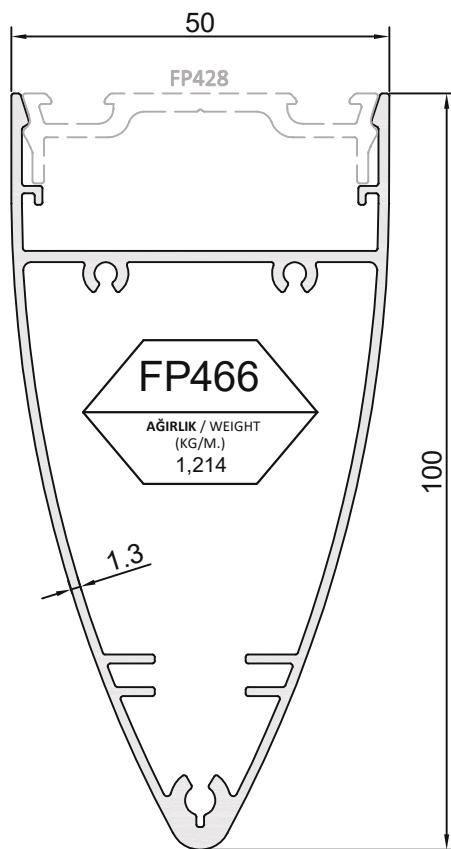
FP462
AĞIRLIK / WEIGHT
(KG/M.)
0,397



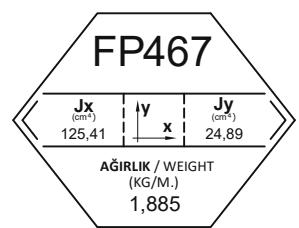
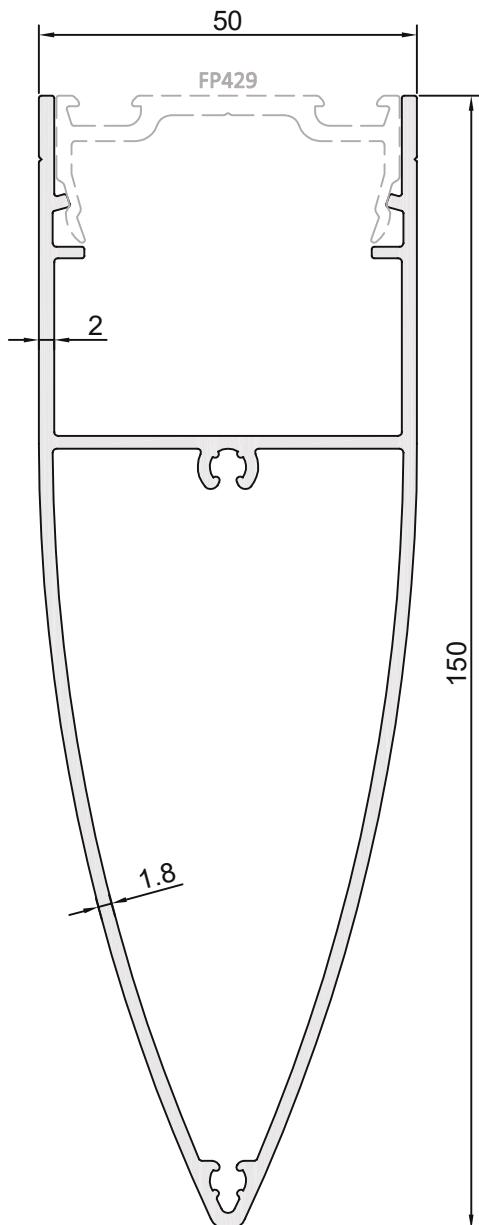
FP464
AĞIRLIK / WEIGHT
(KG/M.)
0,753



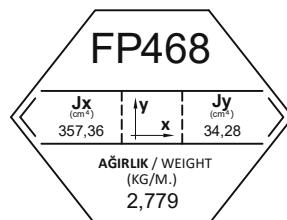
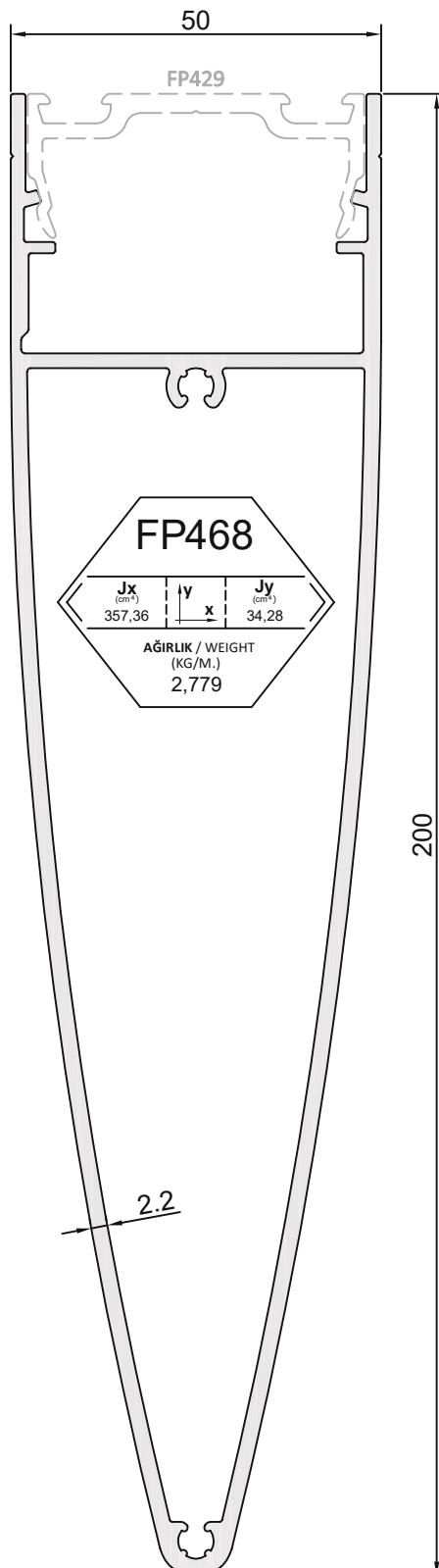
FP465
AĞIRLIK / WEIGHT
(KG/M.)
0,879



FP466
AĞIRLIK / WEIGHT
(KG/M.)
1,214

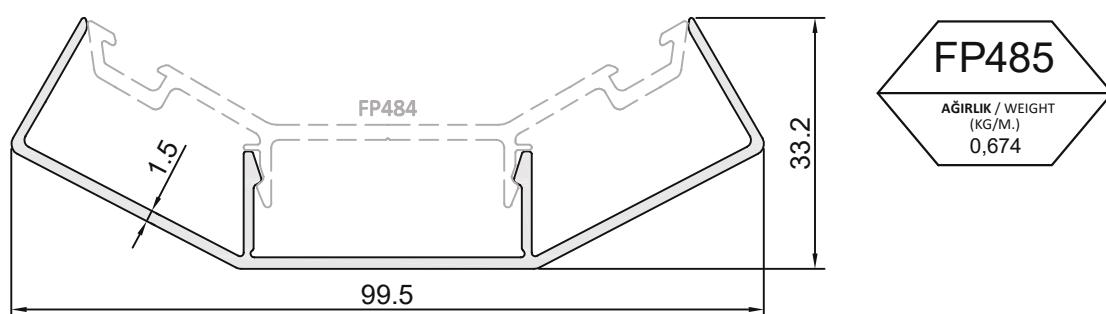
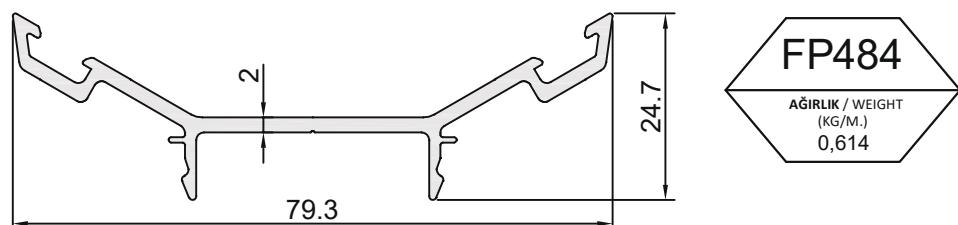
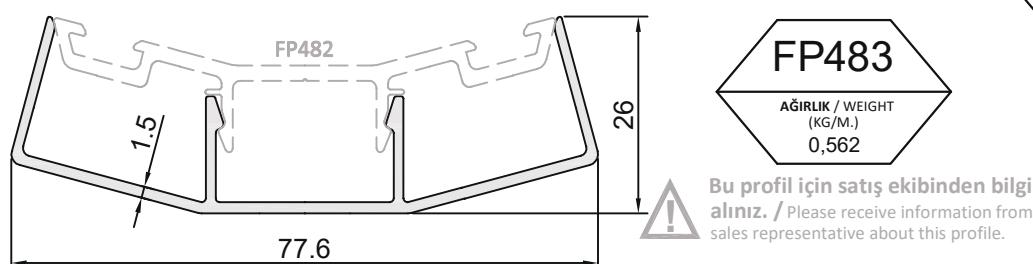
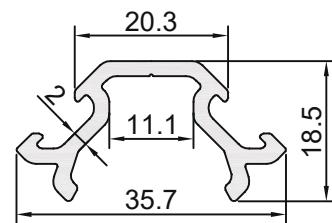
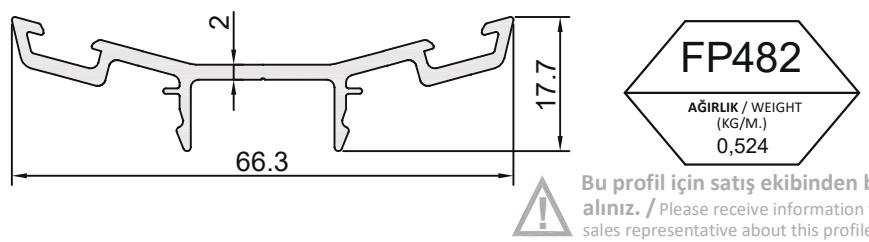
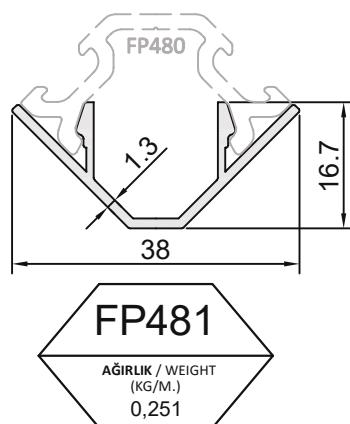
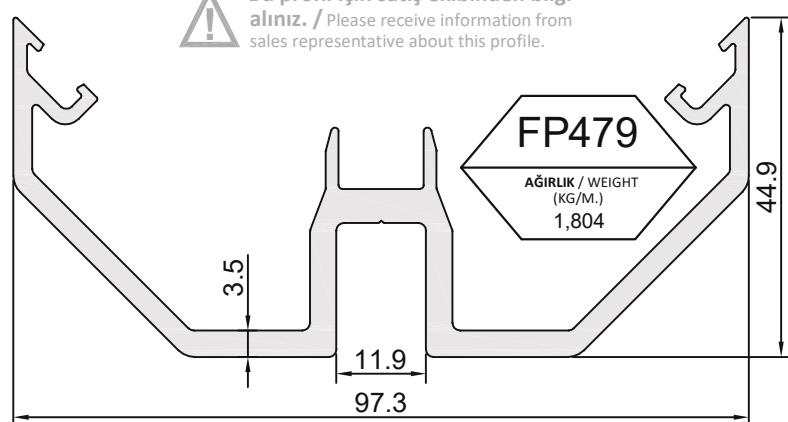


Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.



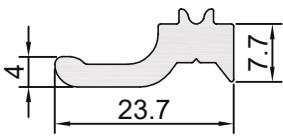
Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.

F50-ENERGY

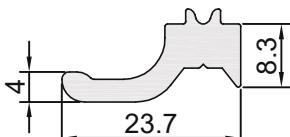


ALÜMİNYUM AKSESUAR PROFİLLERİ

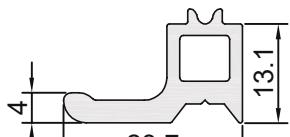
PROFILES OF ALUMINIUM ACCESSORIES



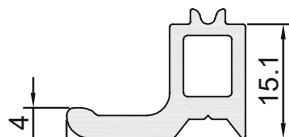
FP377
AĞIRLIK / WEIGHT
(KG/M.)
0,294



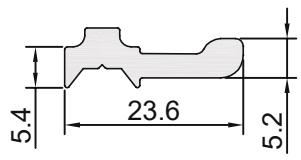
FP378
AĞIRLIK / WEIGHT
(KG/M.)
0,319



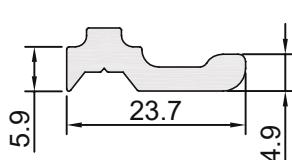
FP379
AĞIRLIK / WEIGHT
(KG/M.)
0,332



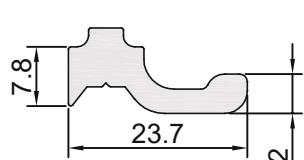
FP380
AĞIRLIK / WEIGHT
(KG/M.)
0,354



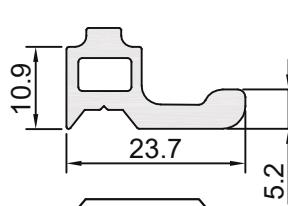
FP381
AĞIRLIK / WEIGHT
(KG/M.)
0,270



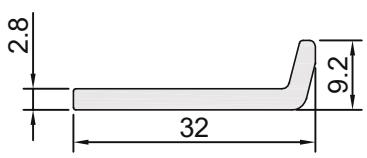
FP382
AĞIRLIK / WEIGHT
(KG/M.)
0,281



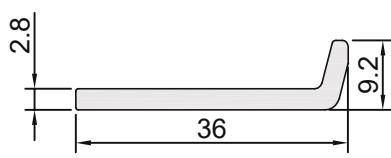
FP383
AĞIRLIK / WEIGHT
(KG/M.)
0,343



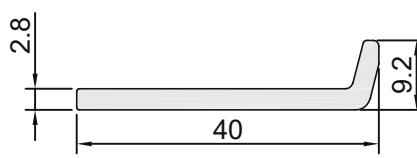
FP384
AĞIRLIK / WEIGHT
(KG/M.)
0,340



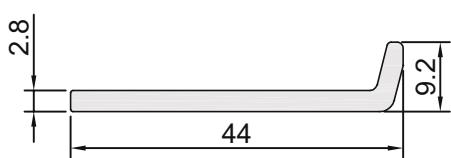
FP390
AĞIRLIK / WEIGHT
(KG/M.)
0,277



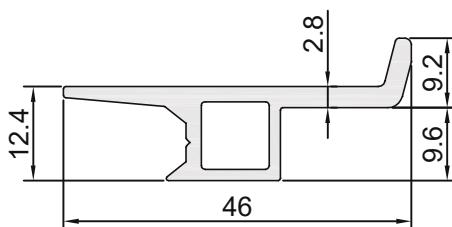
FP391
AĞIRLIK / WEIGHT
(KG/M.)
0,308



FP392
AĞIRLIK / WEIGHT
(KG/M.)
0,338



FP393
AĞIRLIK / WEIGHT
(KG/M.)
0,368



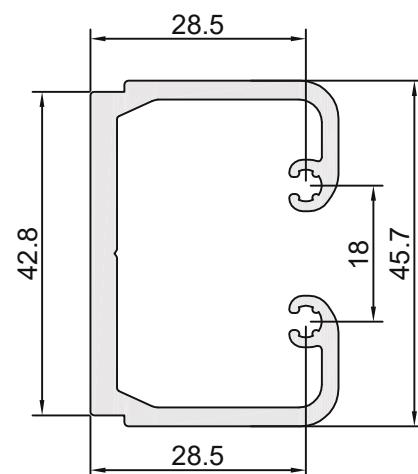
FP394
AĞIRLIK / WEIGHT
(KG/M.)
0,482

ALÜMİNYUM AKSESUAR PROFİLLERİ

PROFILES OF ALUMINIUM ACCESSORIES



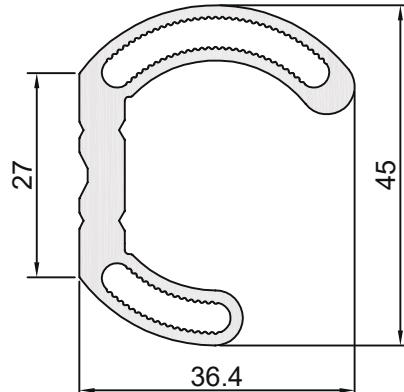
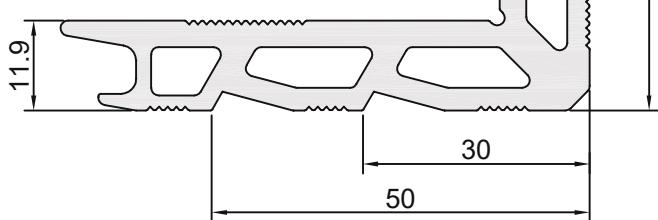
FP520
AĞIRLIK / WEIGHT
(KG/M.)
1,974



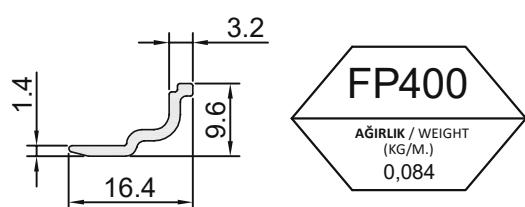
FP506
AĞIRLIK / WEIGHT
(KG/M.)
1,040



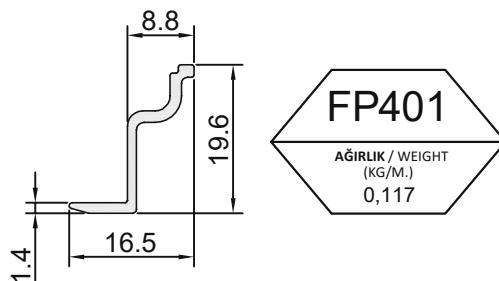
FP521
AĞIRLIK / WEIGHT
(KG/M.)
2,366



FP514
AĞIRLIK / WEIGHT
(KG/M.)
0,947



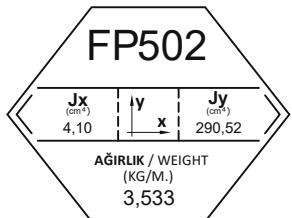
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AĞIRLIK / WEIGHT
(KG/M.)
0,084



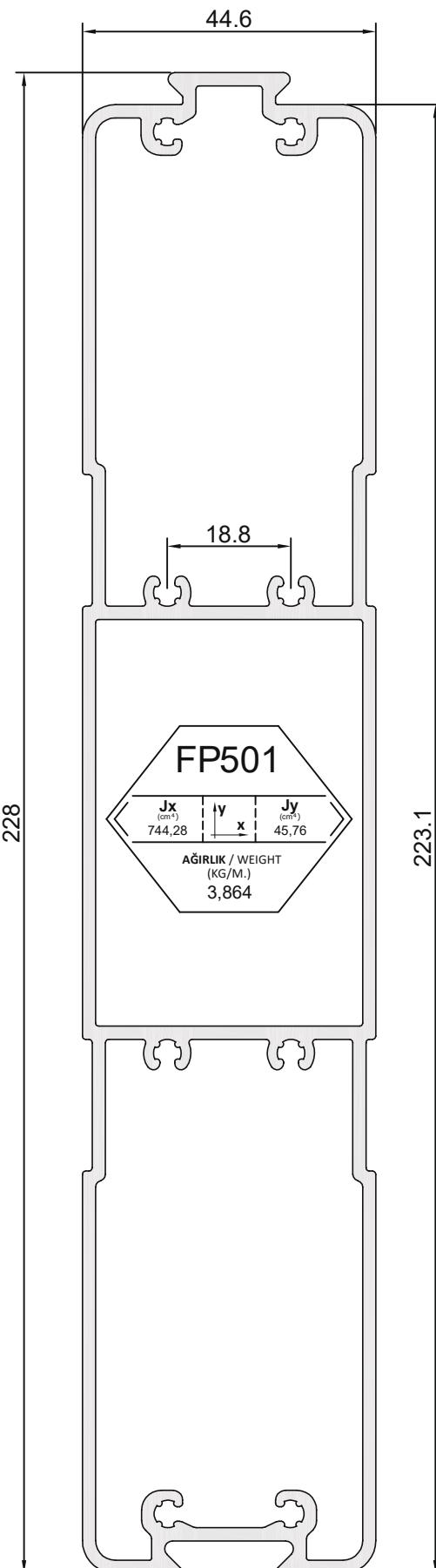
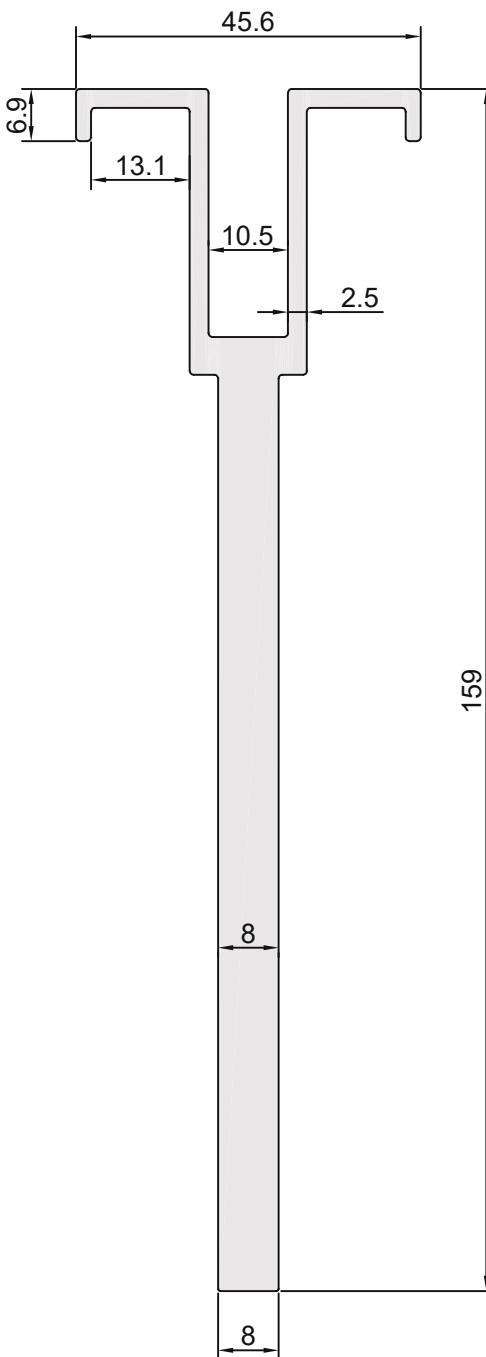
FP401
AĞIRLIK / WEIGHT
(KG/M.)
0,117

ALÜMİNYUM AKSESUAR PROFİLLERİ

PROFILES OF ALUMINIUM ACCESSORIES



Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.



DETAYLAR

DETAILS

1. KAPAKLI CEPHE / CAPPED CURTAIN WALL
2. ENTEGRE CEPHE / INTEGRATED CURTAIN WALL
3. YARI-KAPAKLI CEPHE / SEMI-CAPPED CURTAIN WALL
4. CAM KALINLIKLARINA GÖRE SİSTEM DETAYLARI /
SYSTEM DETAILS ACCORDING TO THE GLASS THICKNESSES

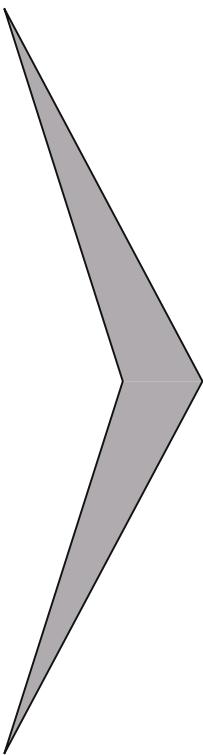
TARAMA STİLLERİ / HATCH STYLES

 EPDM FİTİL / EPDM GASKET	 PVC PROFİL / PVC PROFILE
 STRÜKTÜREL SİLİKON / STRUCTURAL SILICONE	 ÇELİK PROFİL / STEEL PROFILE
 MESAFE BELİRLEYİCİ / SPACE ADJUSTER	 SU YALITIM MEMBRANI / WATERPROOFING MEMBRANE
 ALÜMİNYUM PROFİL / ALUMINIUM PROFILE	 POLİETİLEN CONTA / POLYETHYLENE GASKET
 PROFİL PARÇA (AI) / PIECE OF PROFILE (AI)	 TAŞYÜNÜ / ROCKWOOL
 ISI BARİYERİ / INSULATION BAR	 CAM / GLASS

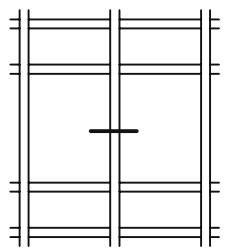
► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
SİSTEM ALÜMİNYUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

KAPAKLI CEPHE

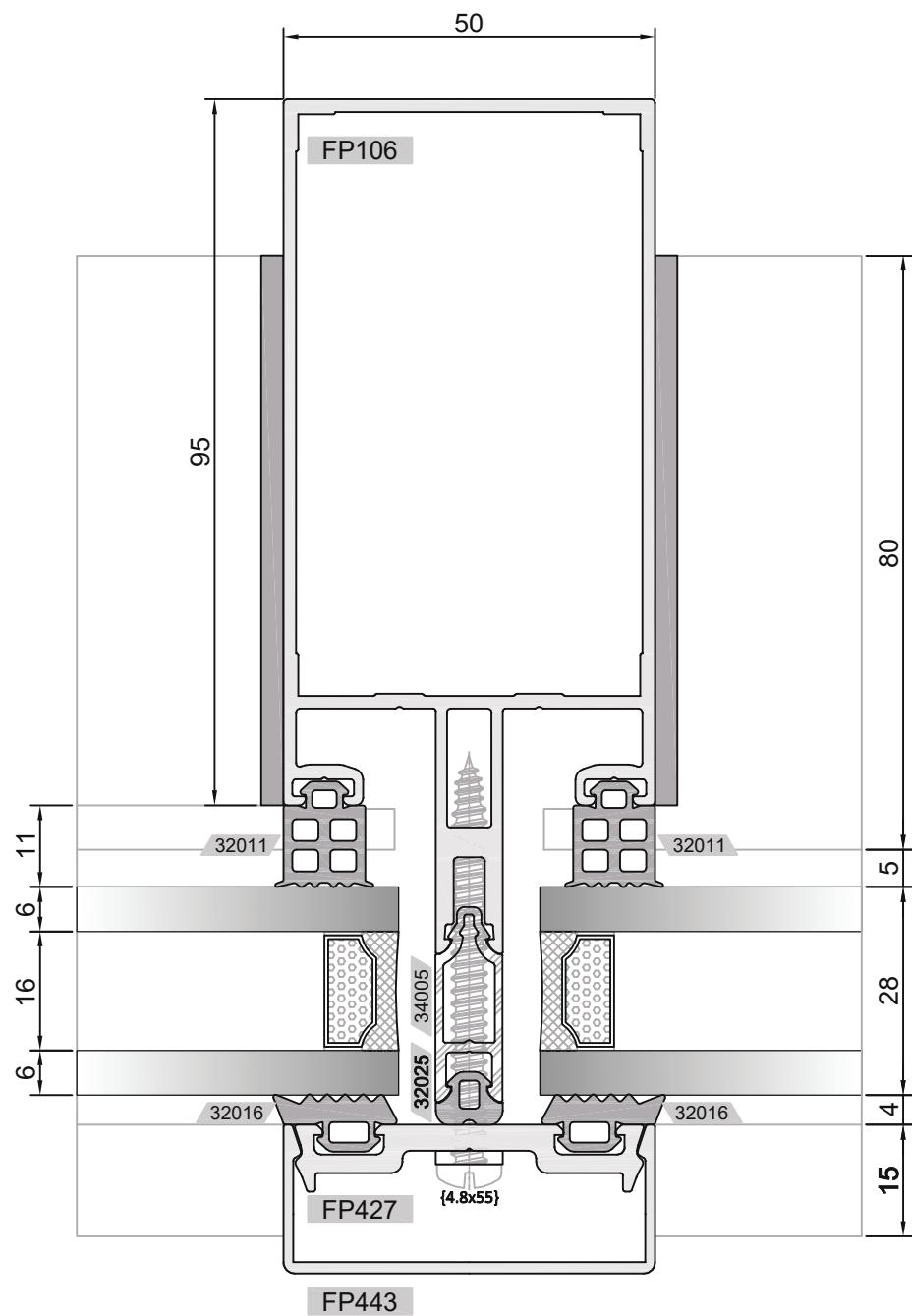
CAPPED CURTAIN WALL

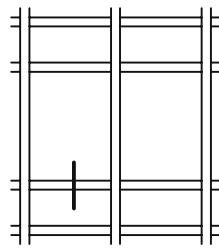


► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
SİSTEM ALÜMİNYUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

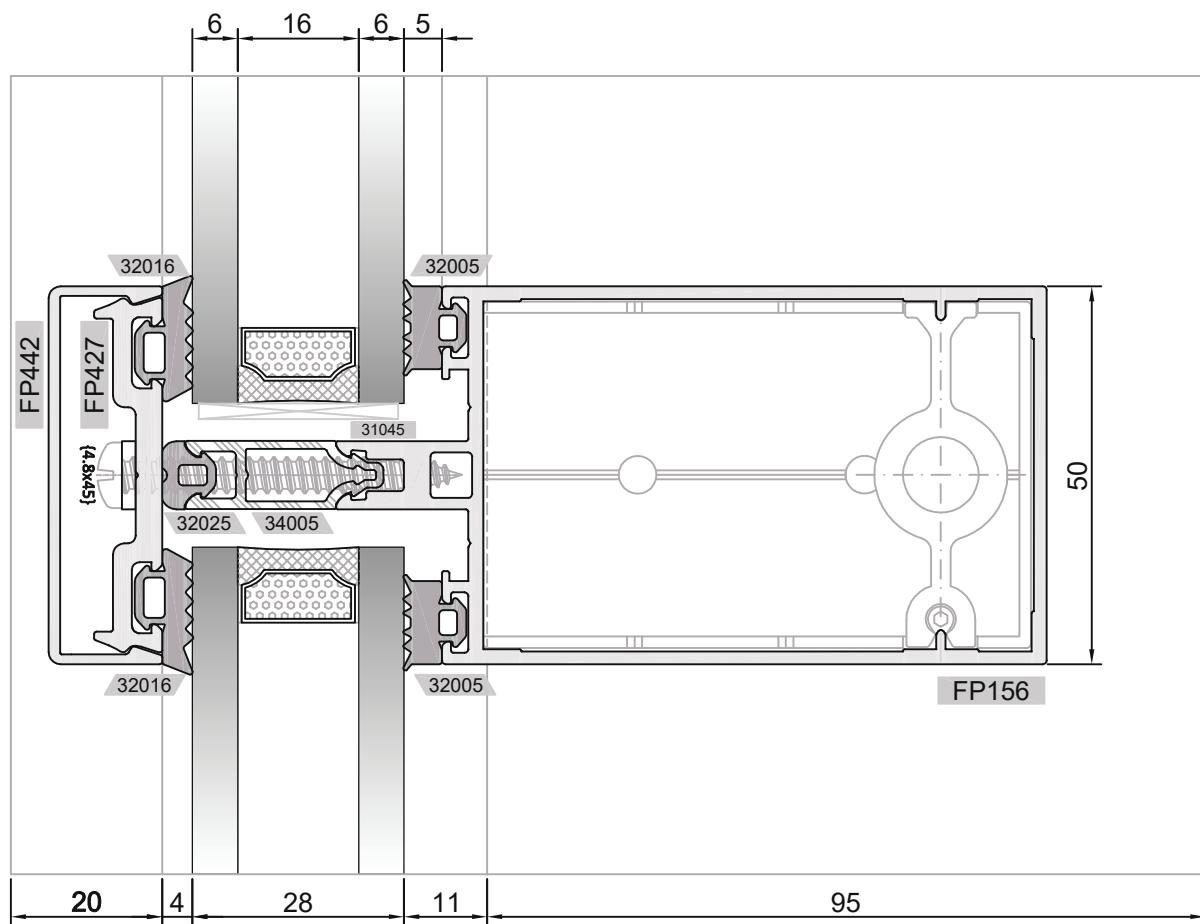


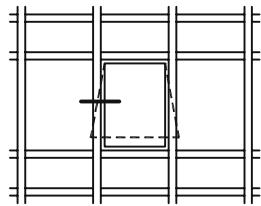
DÜŞEY DETAYI
VERTICAL DETAIL





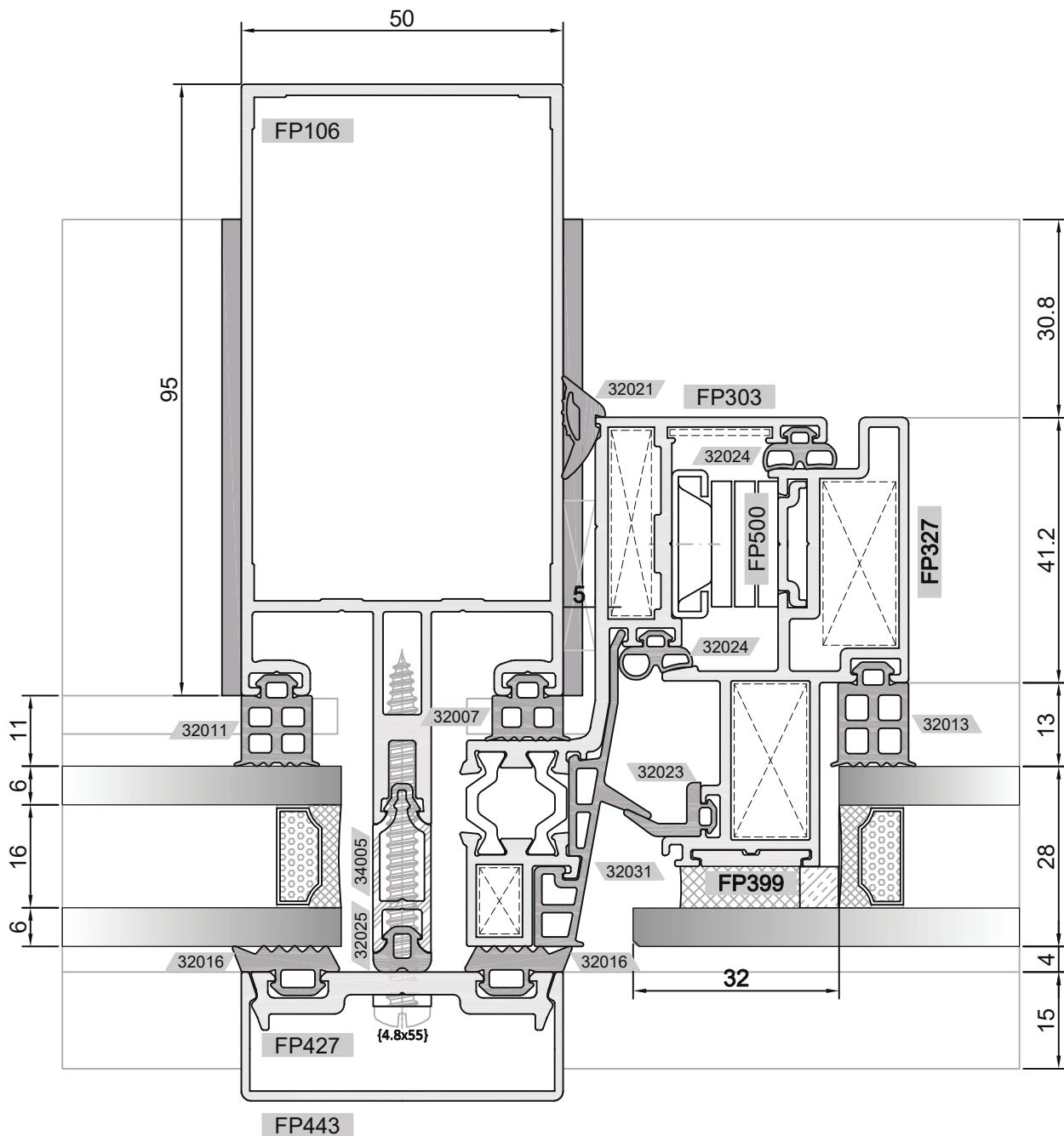
YATAY DETAYI
HORIZONTAL DETAIL

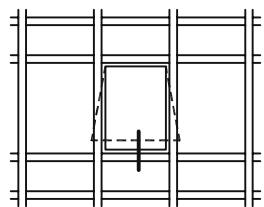




ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

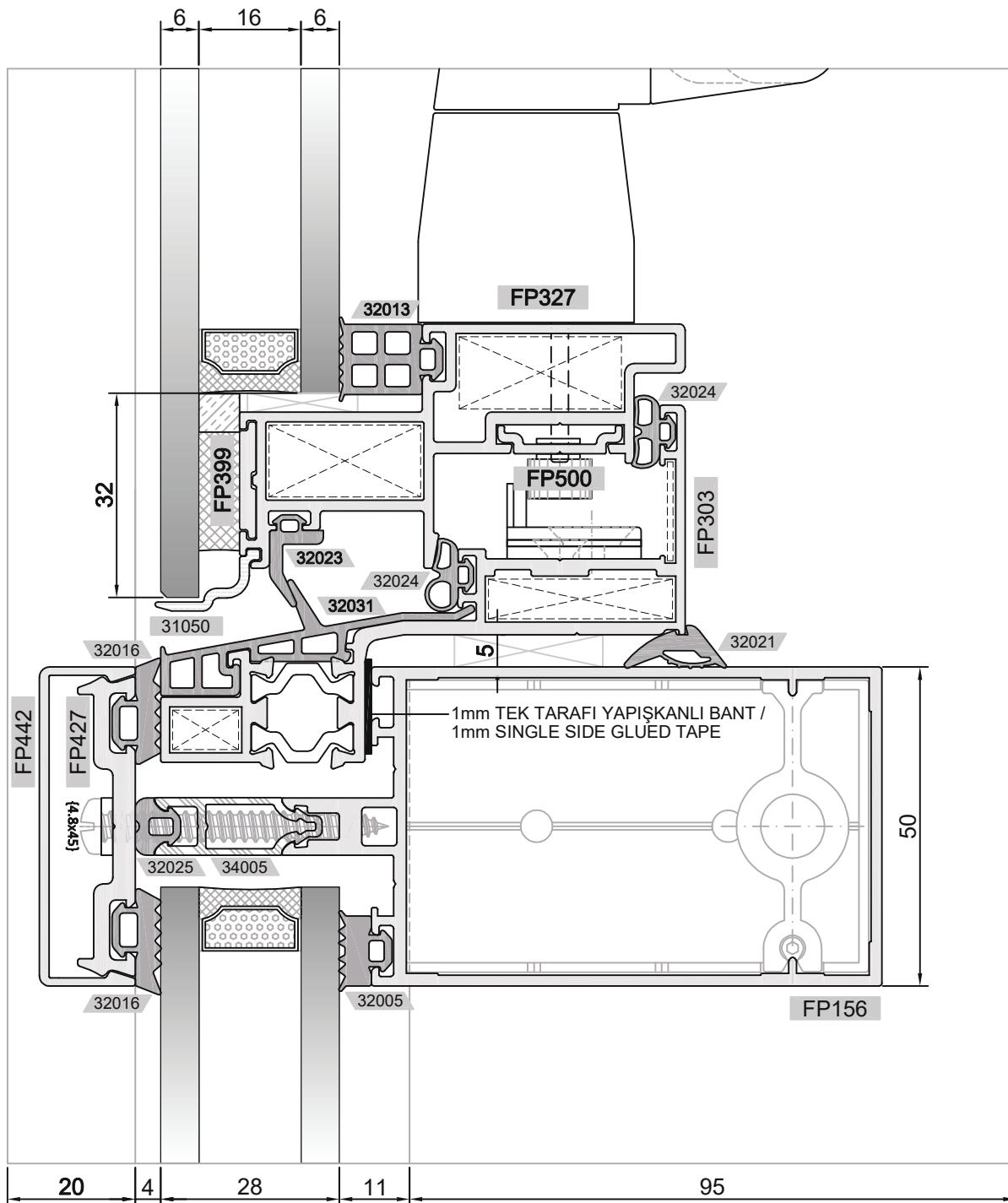
DÜŞEY DETAYI
VERTICAL DETAIL

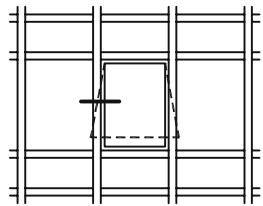




ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

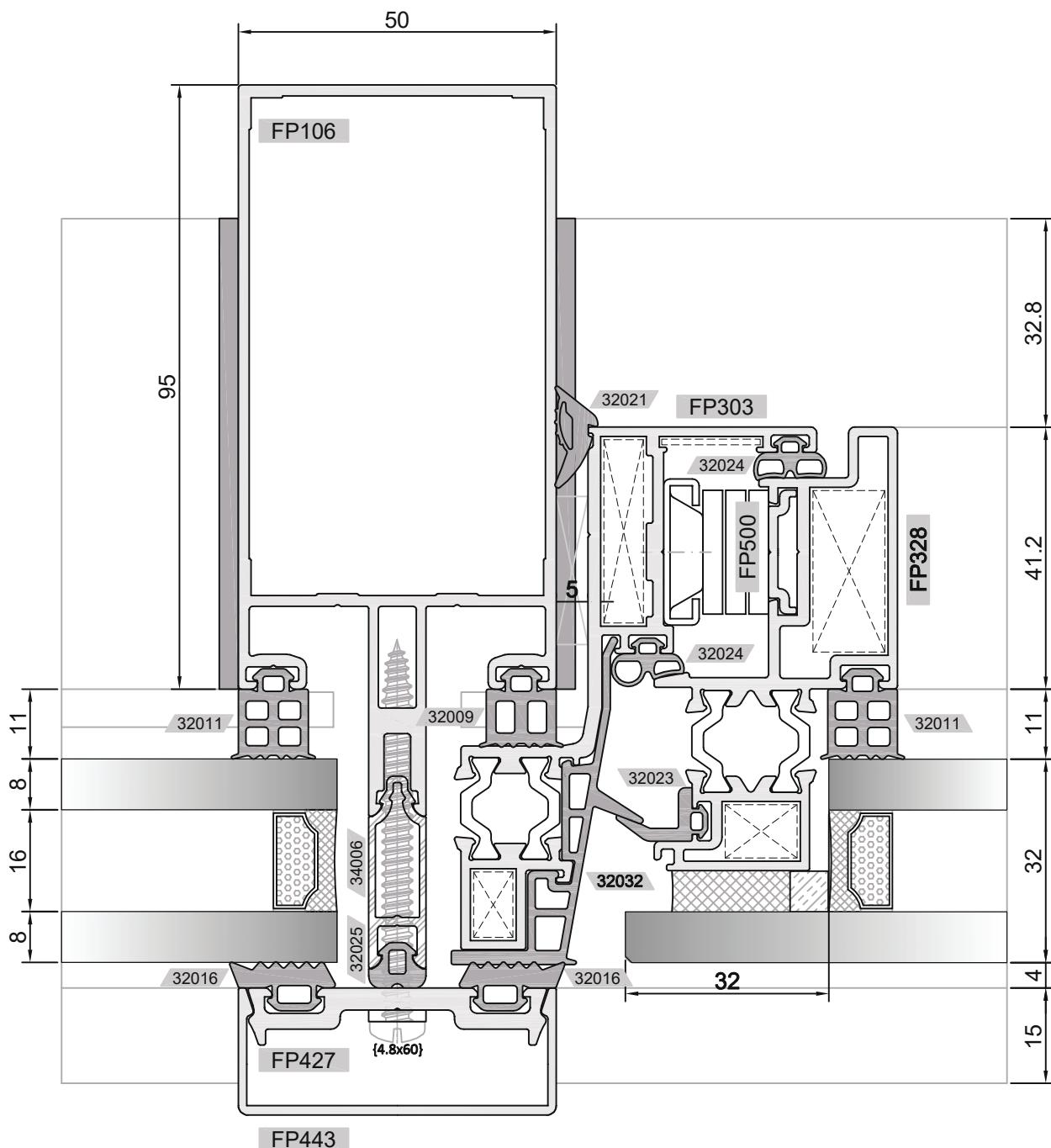
YATAY DETAYI
HORIZONTAL DETAIL

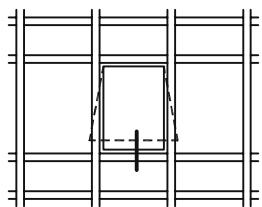




ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

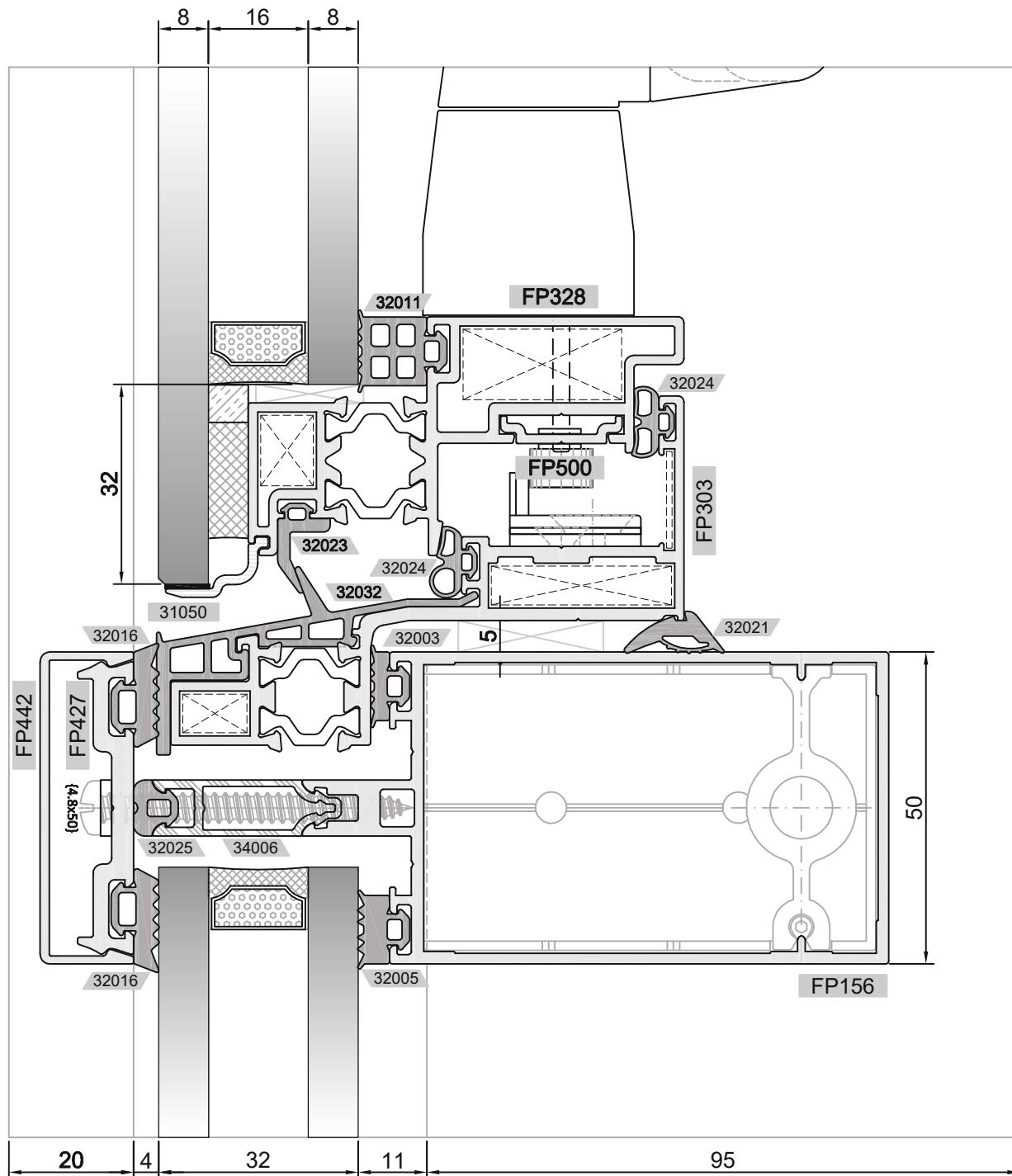
DÜŞEY DETAYI
VERTICAL DETAIL

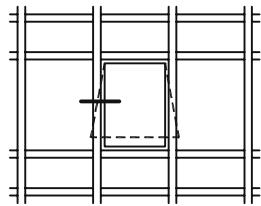




YATAY DETAYI
HORIZONTAL DETAIL

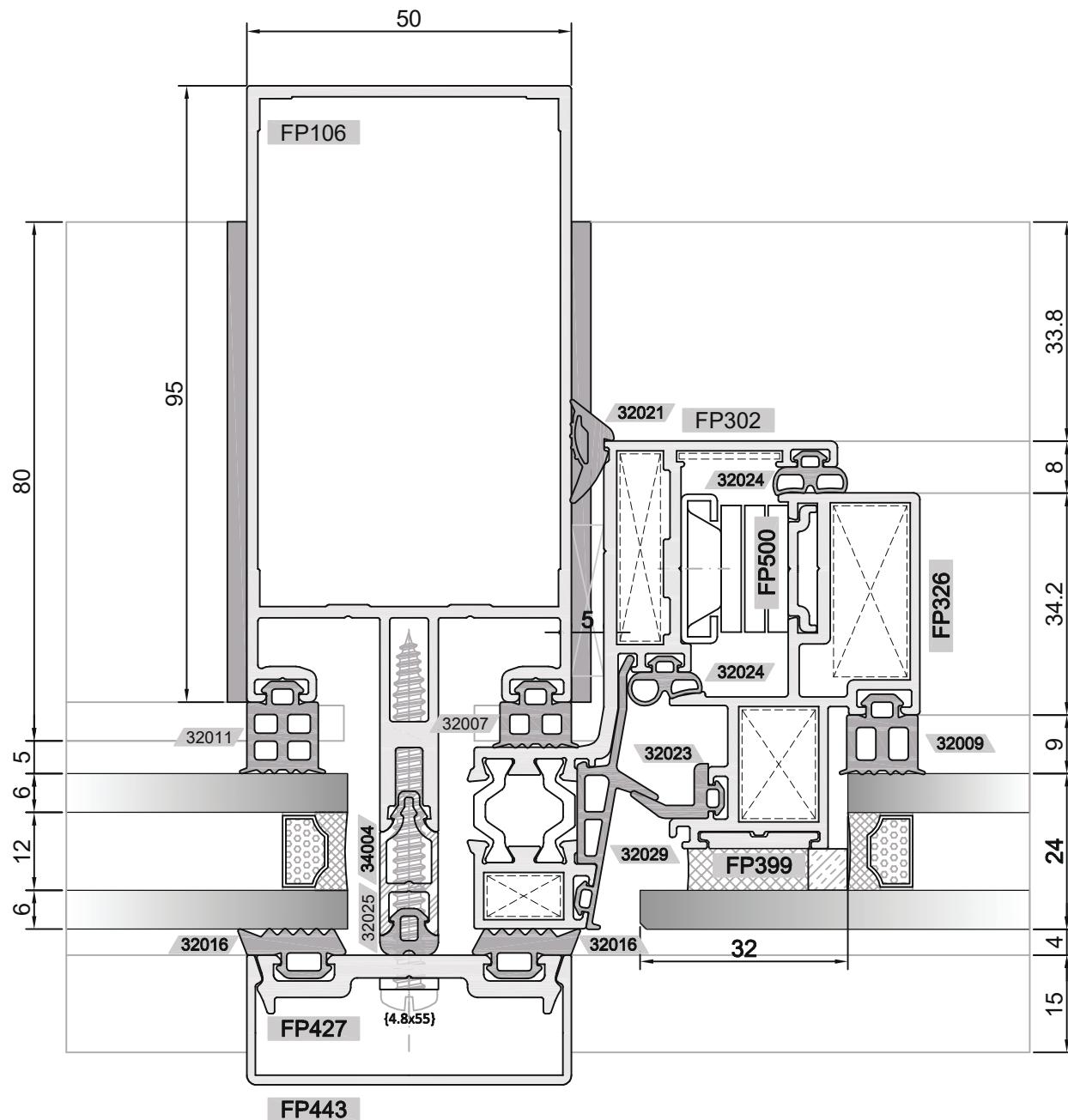
ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

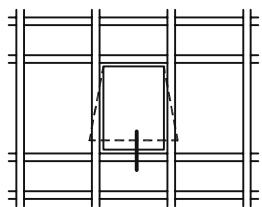




ALTERNATİF 3: EKONOMİK KANAT DETAYI
ALTERNATIVE 3 : ECONOMICAL VENT DETAIL

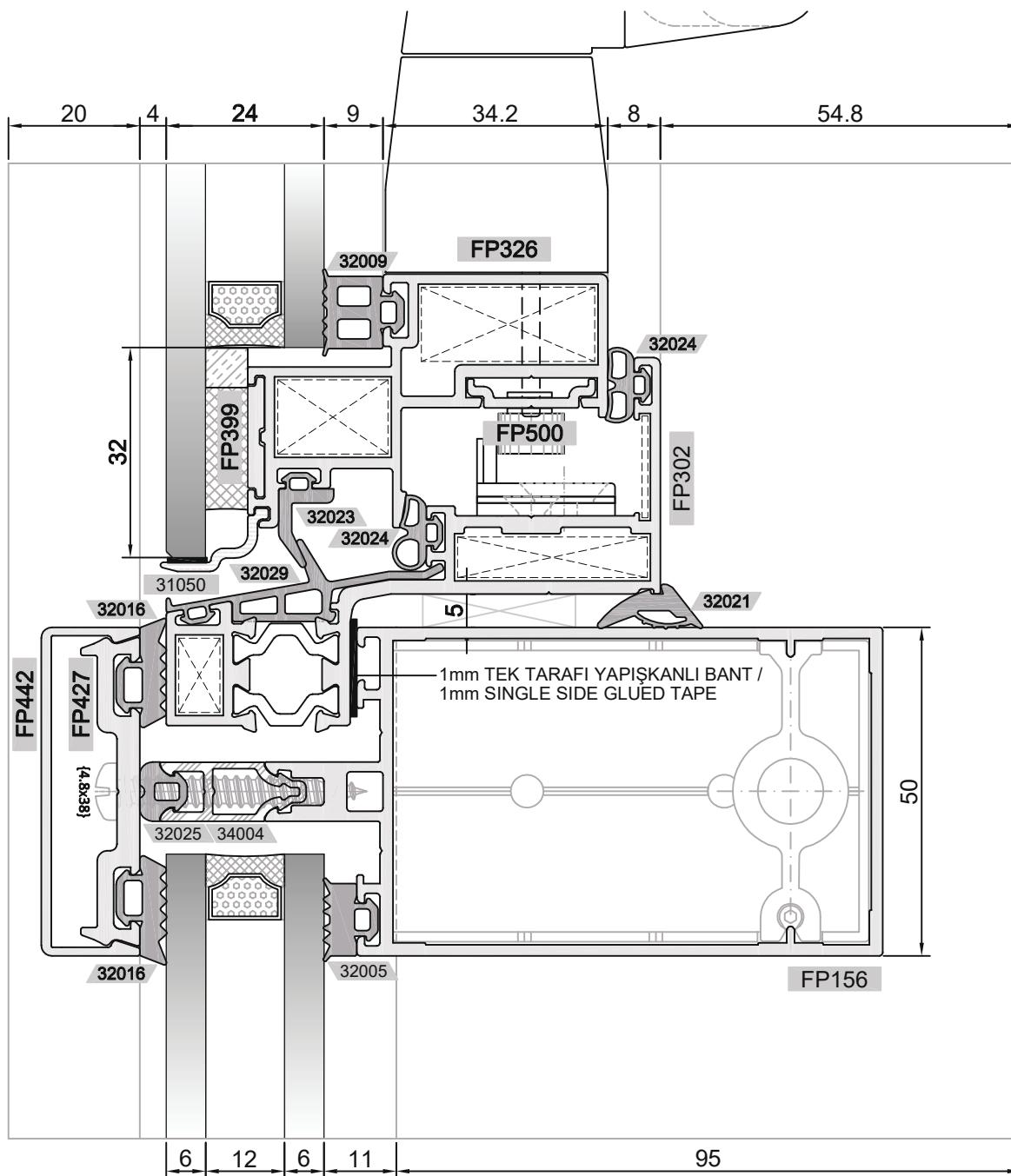
DÜŞEY DETAYI
VERTICAL DETAIL

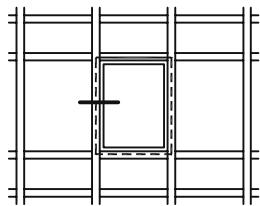




ALTERNATİF 3: EKONOMİK KANAT DETAYI ALTERNATIVE 3 : ECONOMICAL VENT DETAIL

YATAY DETAYI
HORIZONTAL DETAIL



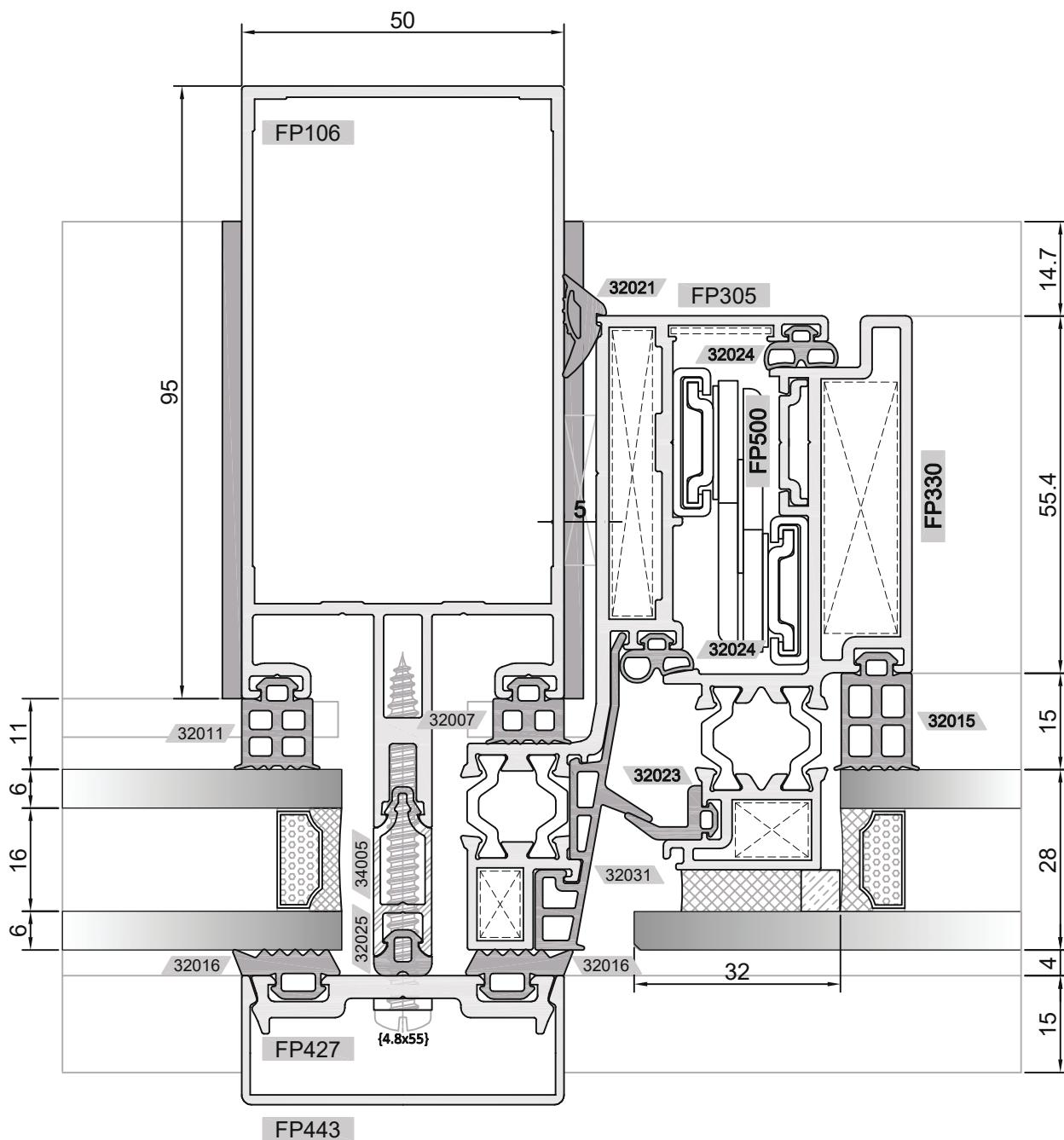


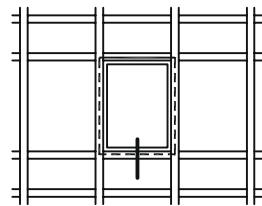
ALTERNATİF 1: YALITIMLI PARALEL AÇILIR KANAT DETAYI

ALTERNATIVE 1 : PARALLEL OPENING INSULATED VENT DETAIL

DÜŞEY DETAYI

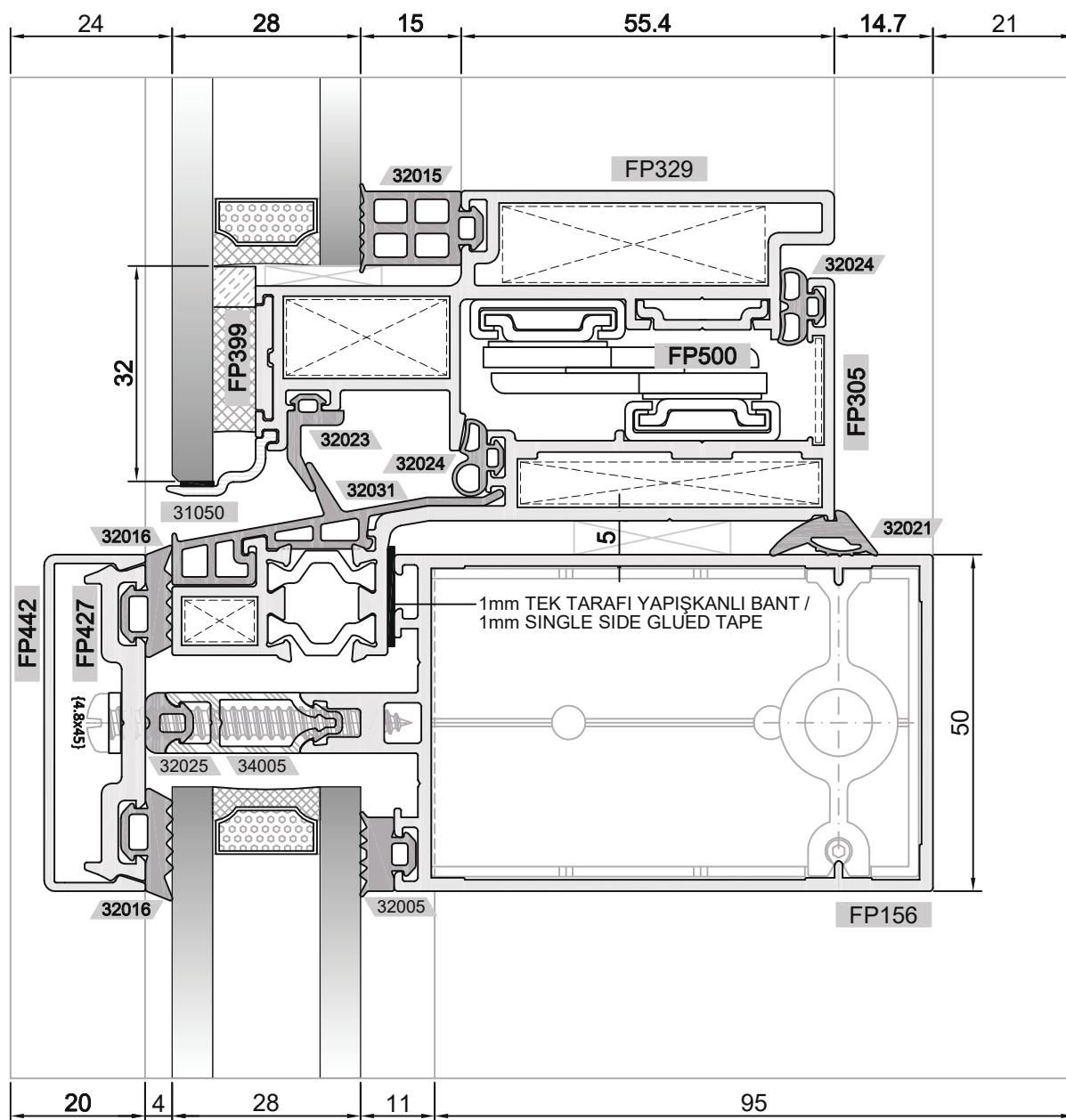
VERTICAL DETAIL

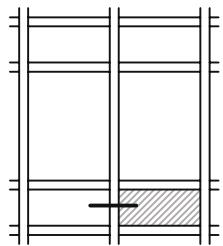




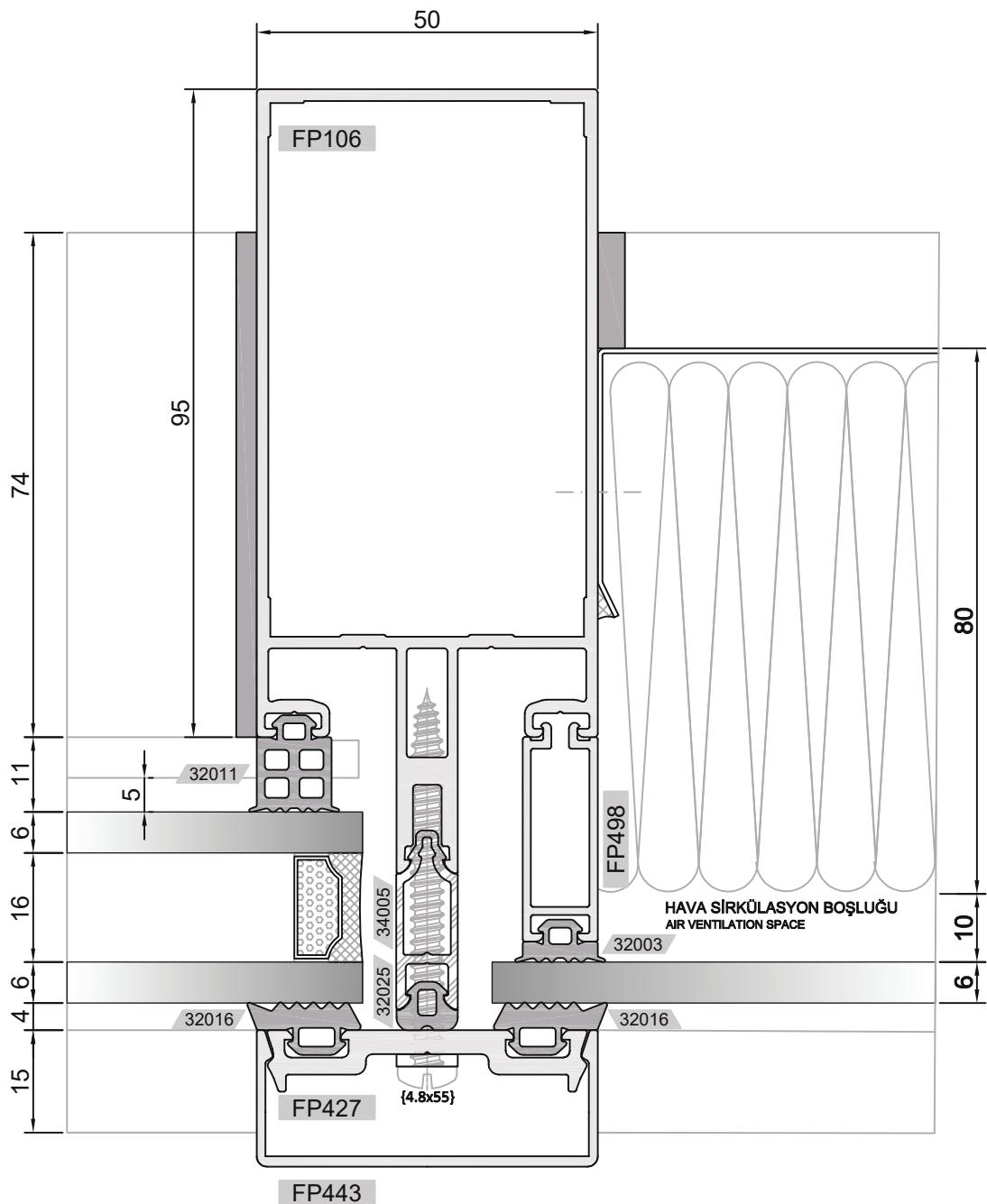
ALTERNATİF 2: YALITIMSIZ PARALEL AÇILIR KANAT DETAYI ALTERNATIVE 2 : PARALEL OPENING UNINSULATED VENT DETAIL

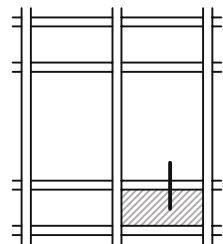
YATAY DETAYI
HORIZONTAL DETAIL



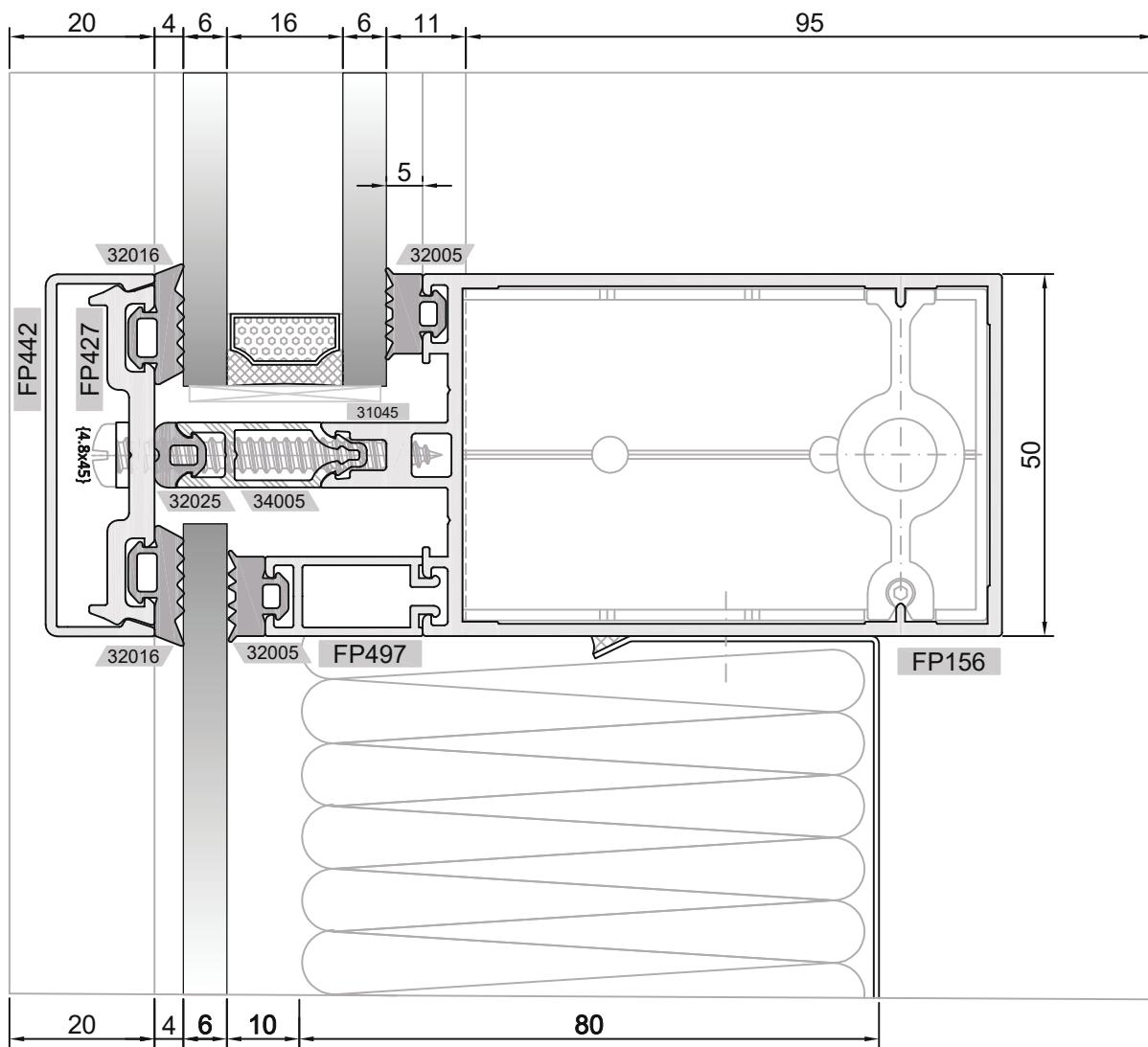


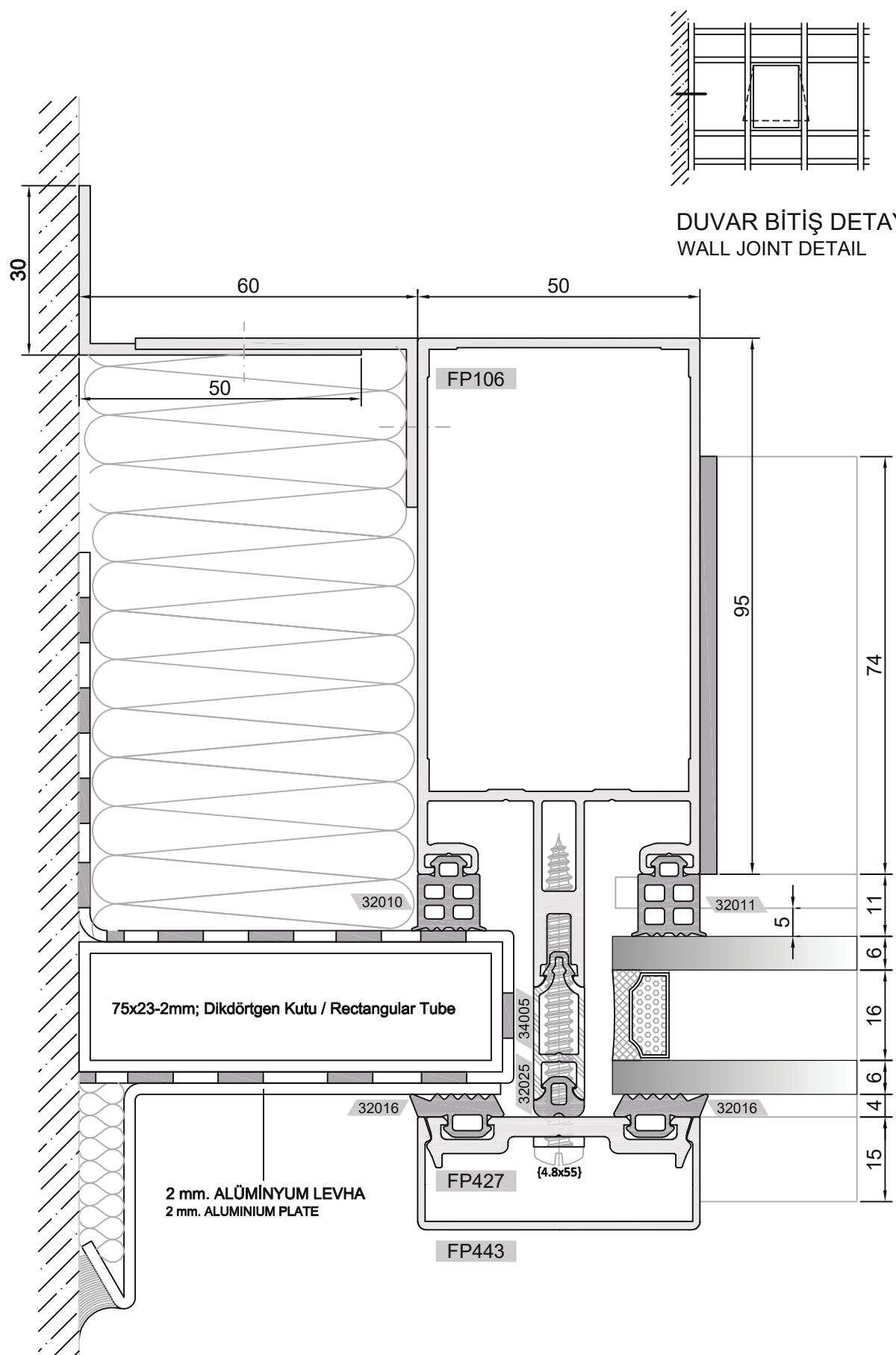
SPANDREL BÖLGE DÜSEY DETAYI
SPANDREL AREA VERTICAL DETAIL

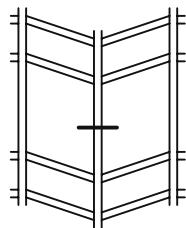




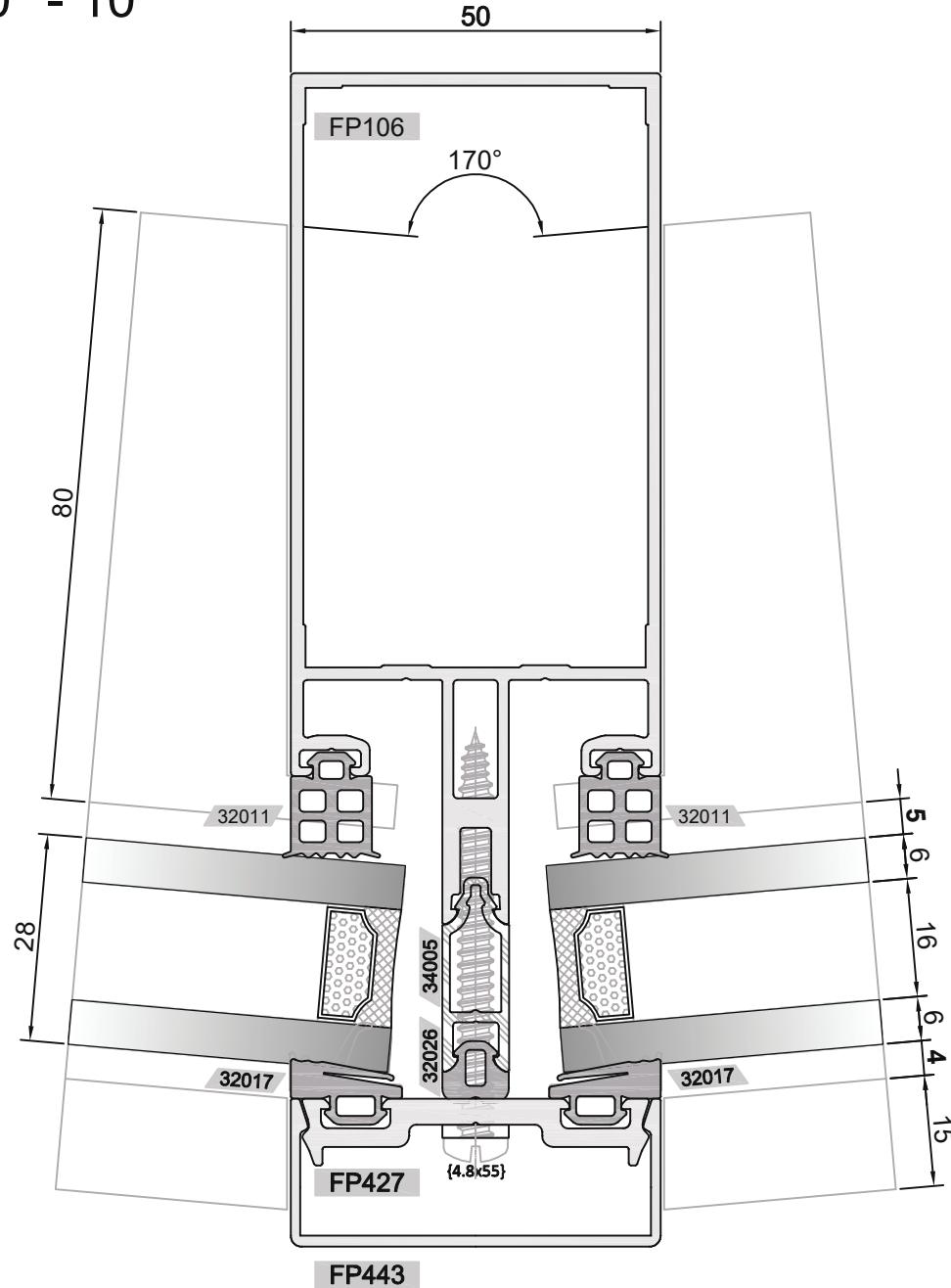
SPANDREL BÖLGE YATAY DETAYI
SPANDREL AREA HORIZONTAL DETAIL

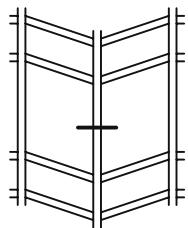




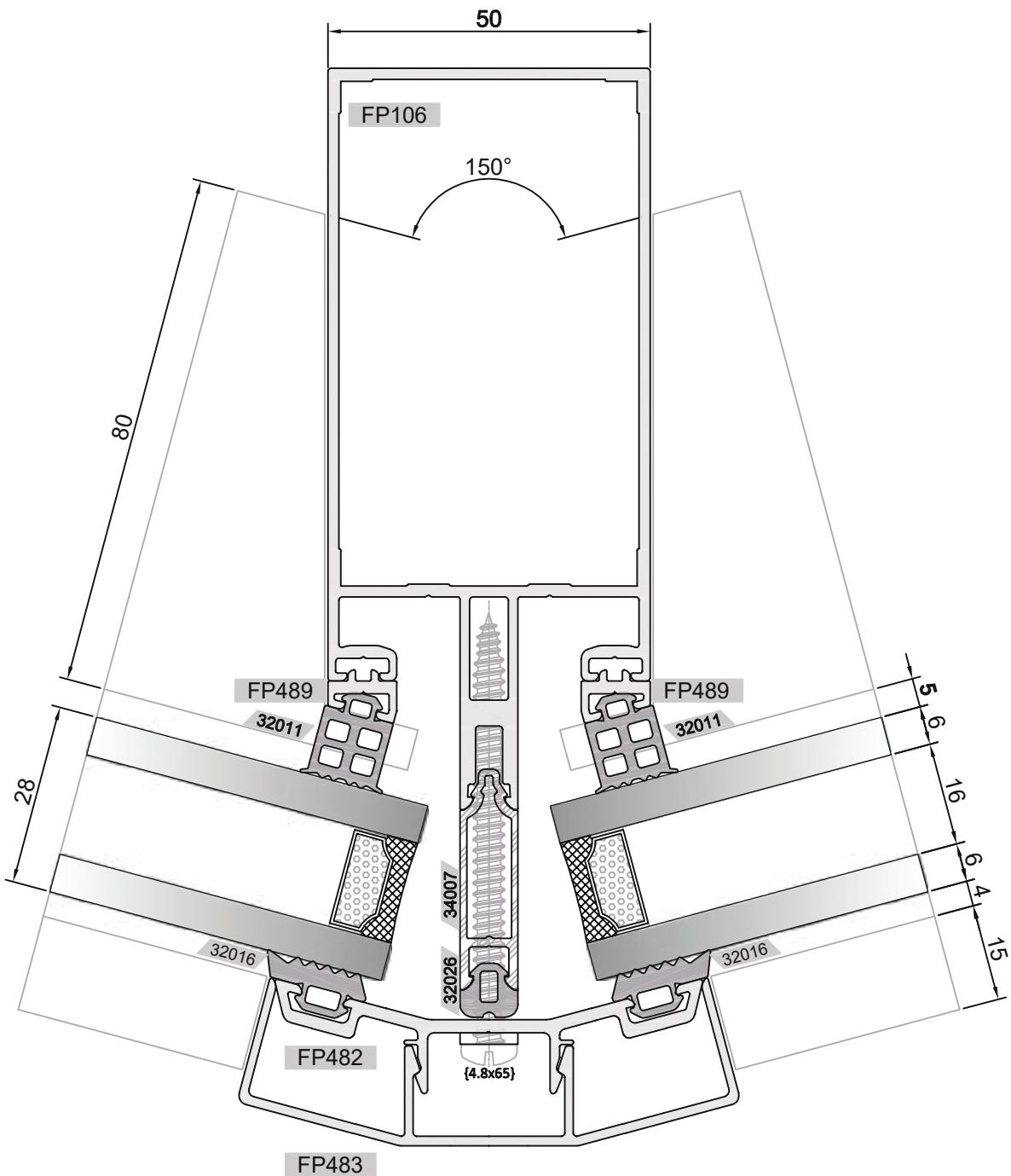


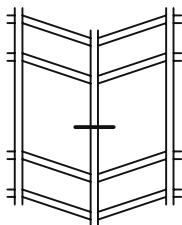
0° - 10°



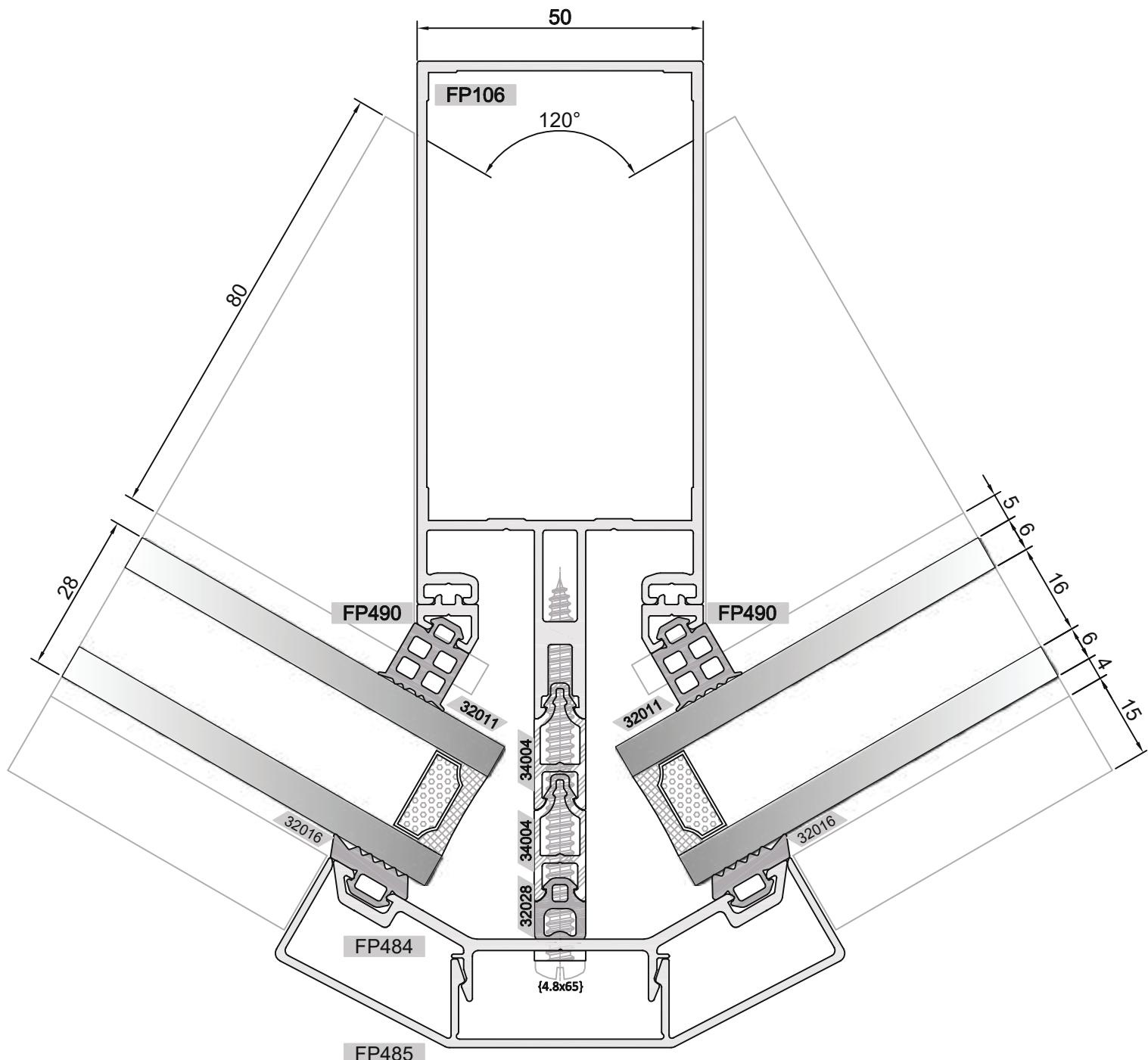


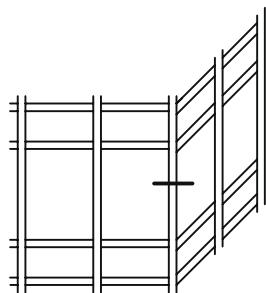
10° - 30°



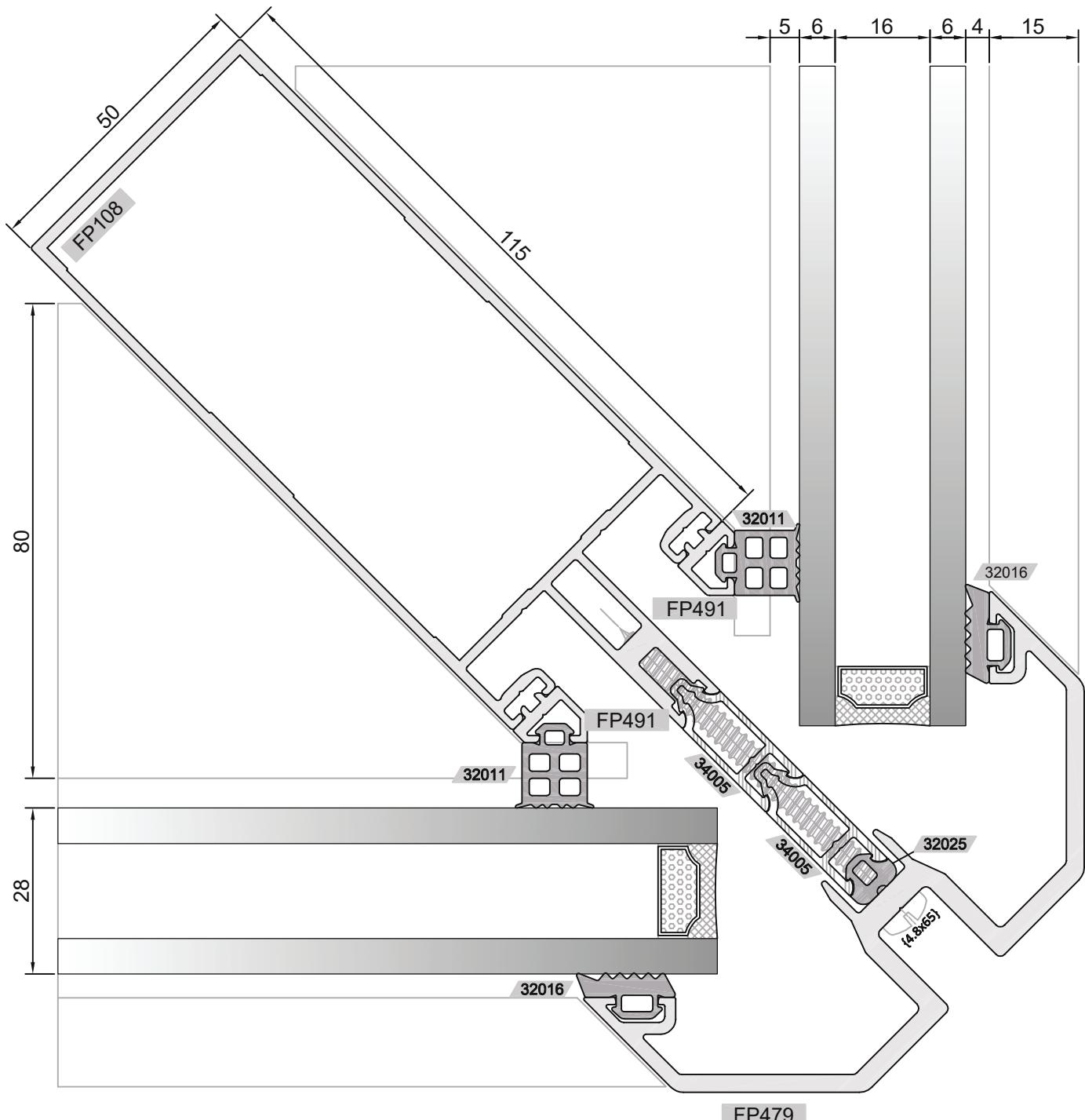


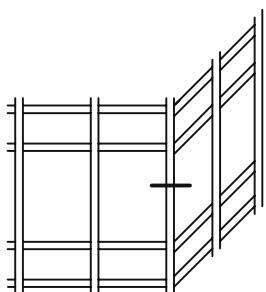
30° - 60°





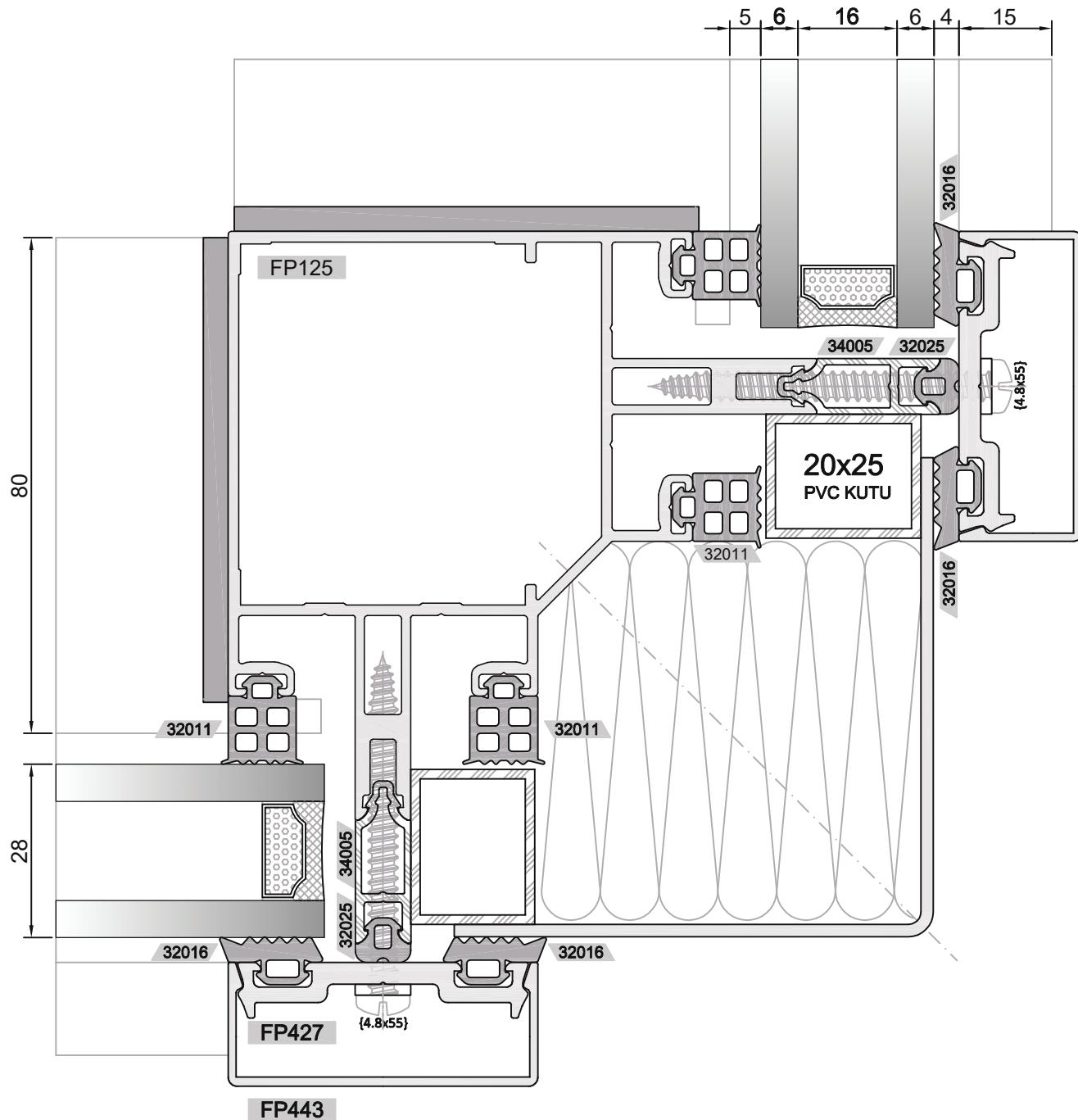
ALTERNATİF 1: TEK KAPAKLI KÖŞE DETAYI
ALTERNATIVE 1 : CORNER DETAIL WITH SINGLE CAP

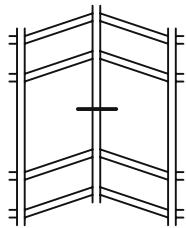




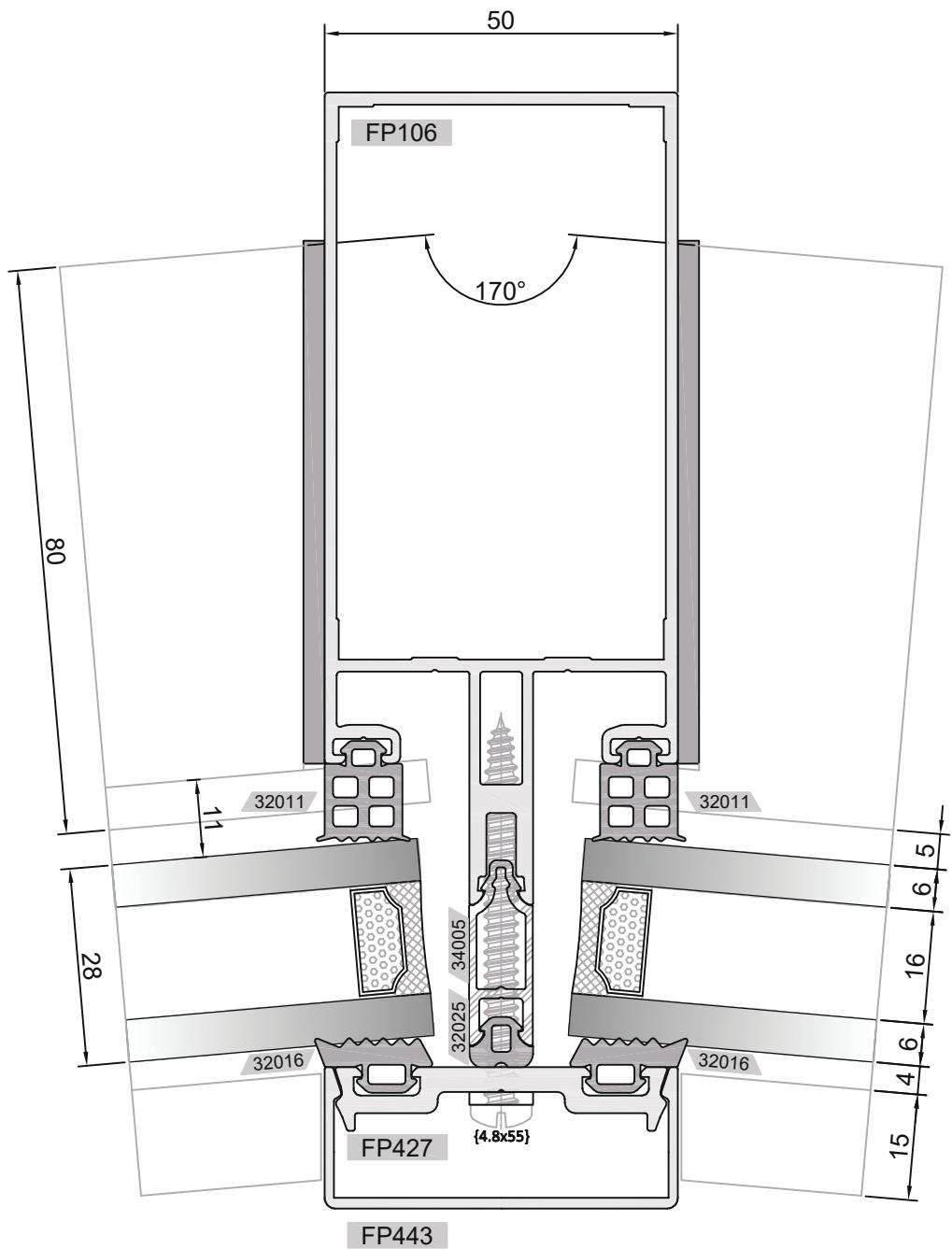
90°

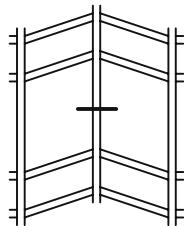
ALTERNATİF 2: ÇİFT KAPAKLI KÖŞE DETAYI ALTERNATIVE 2 : CORNER DETAIL WITH DOUBLE CAP



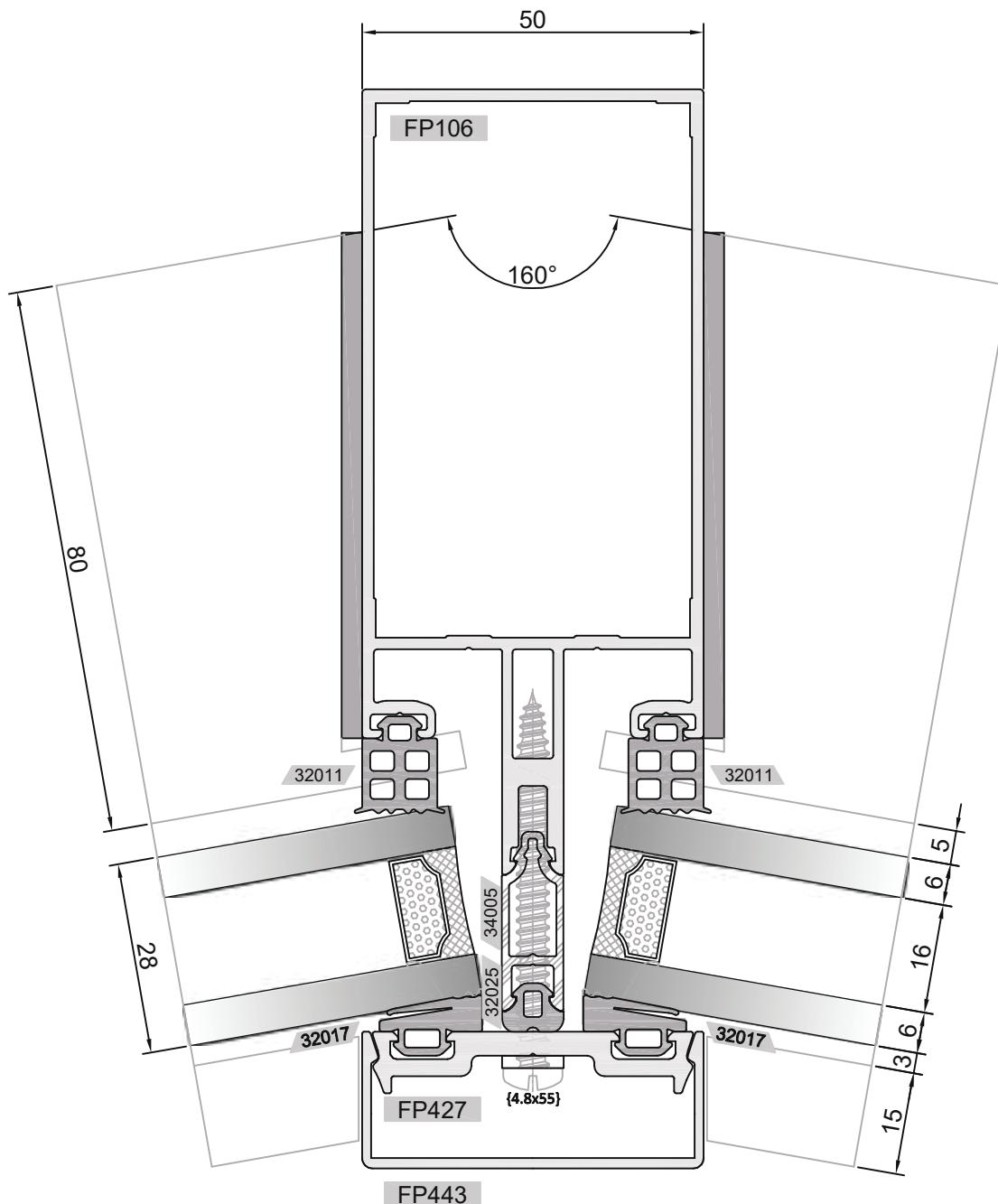


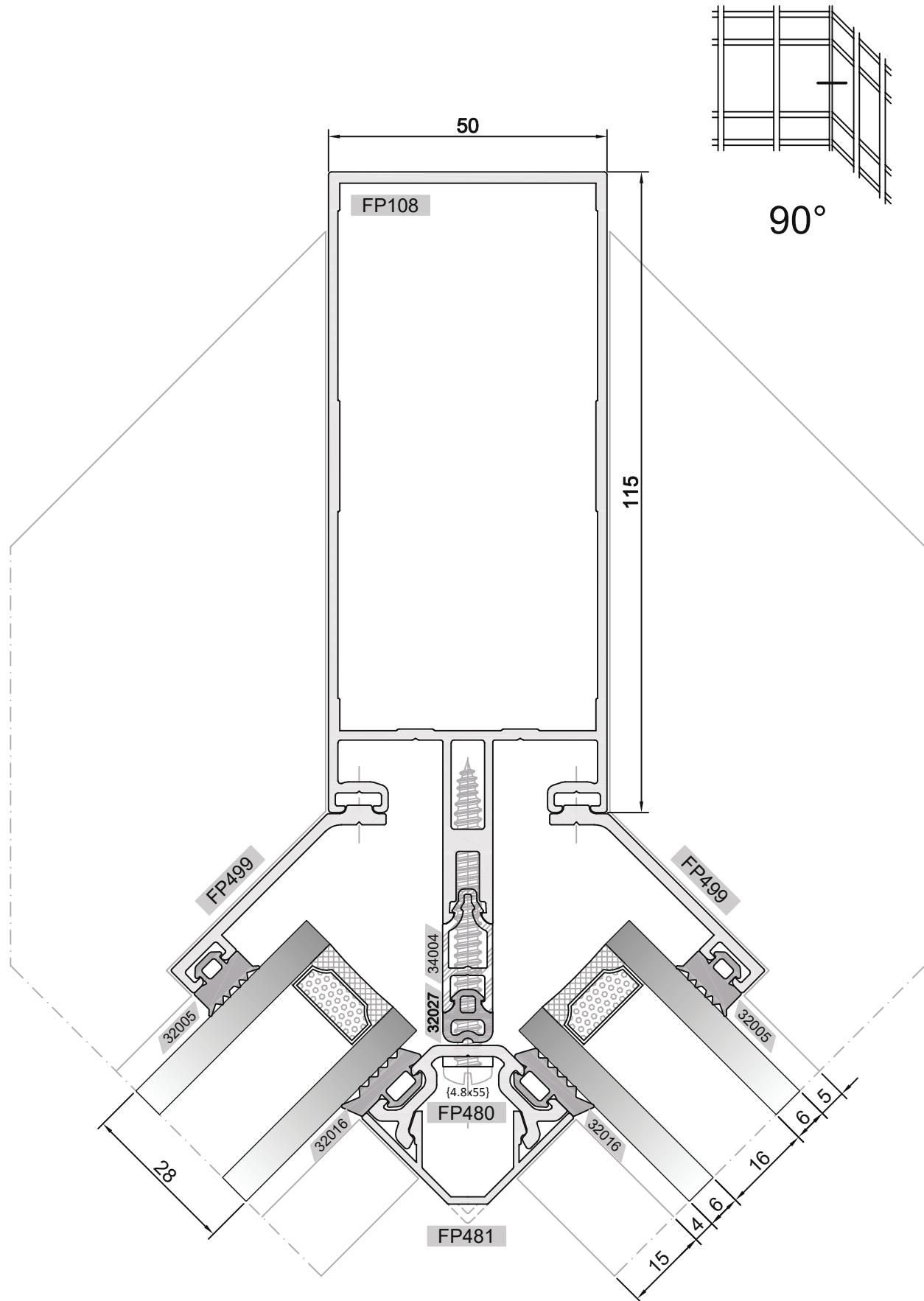
10° - 0°

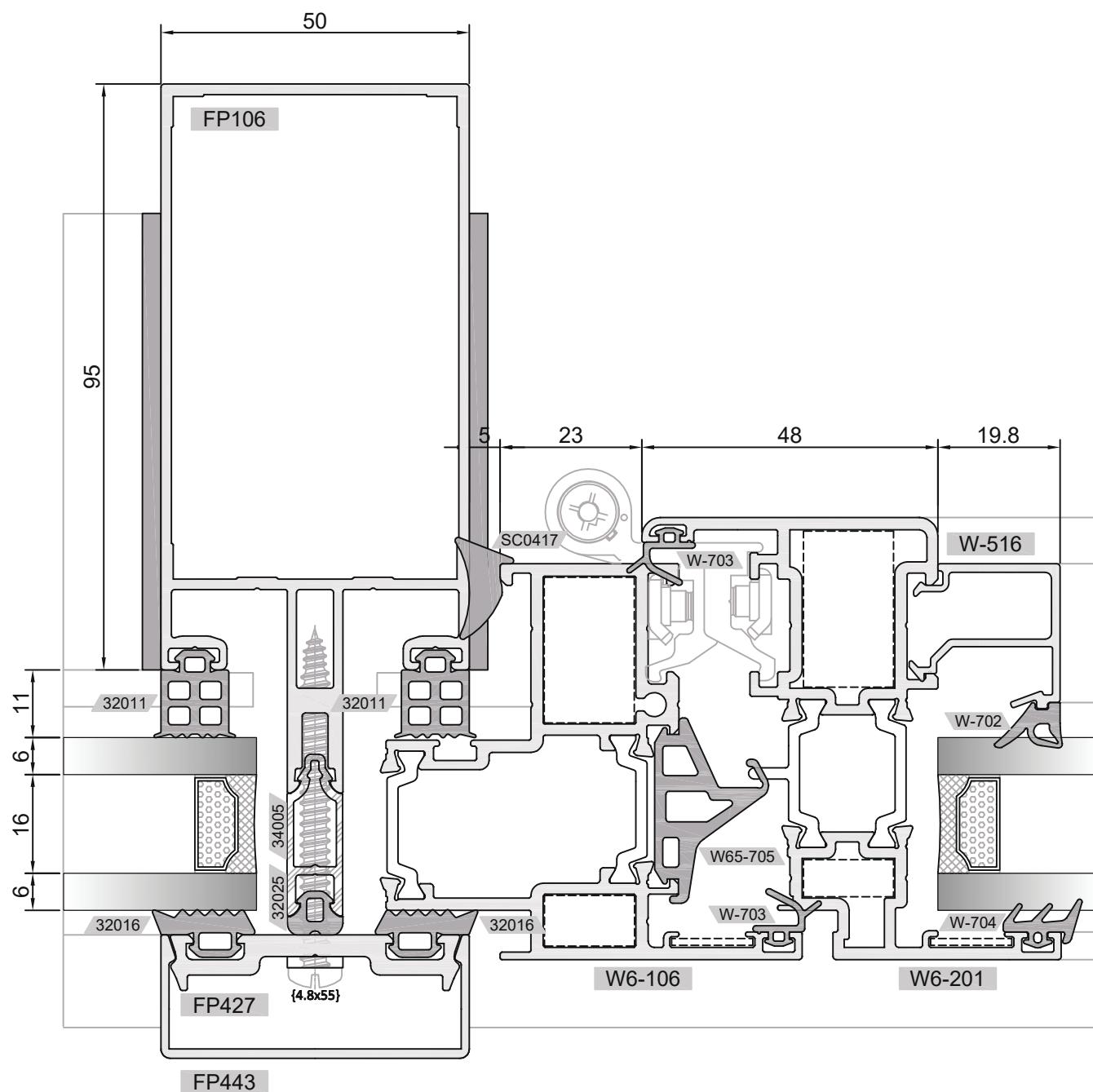
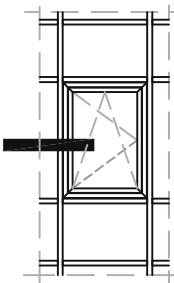


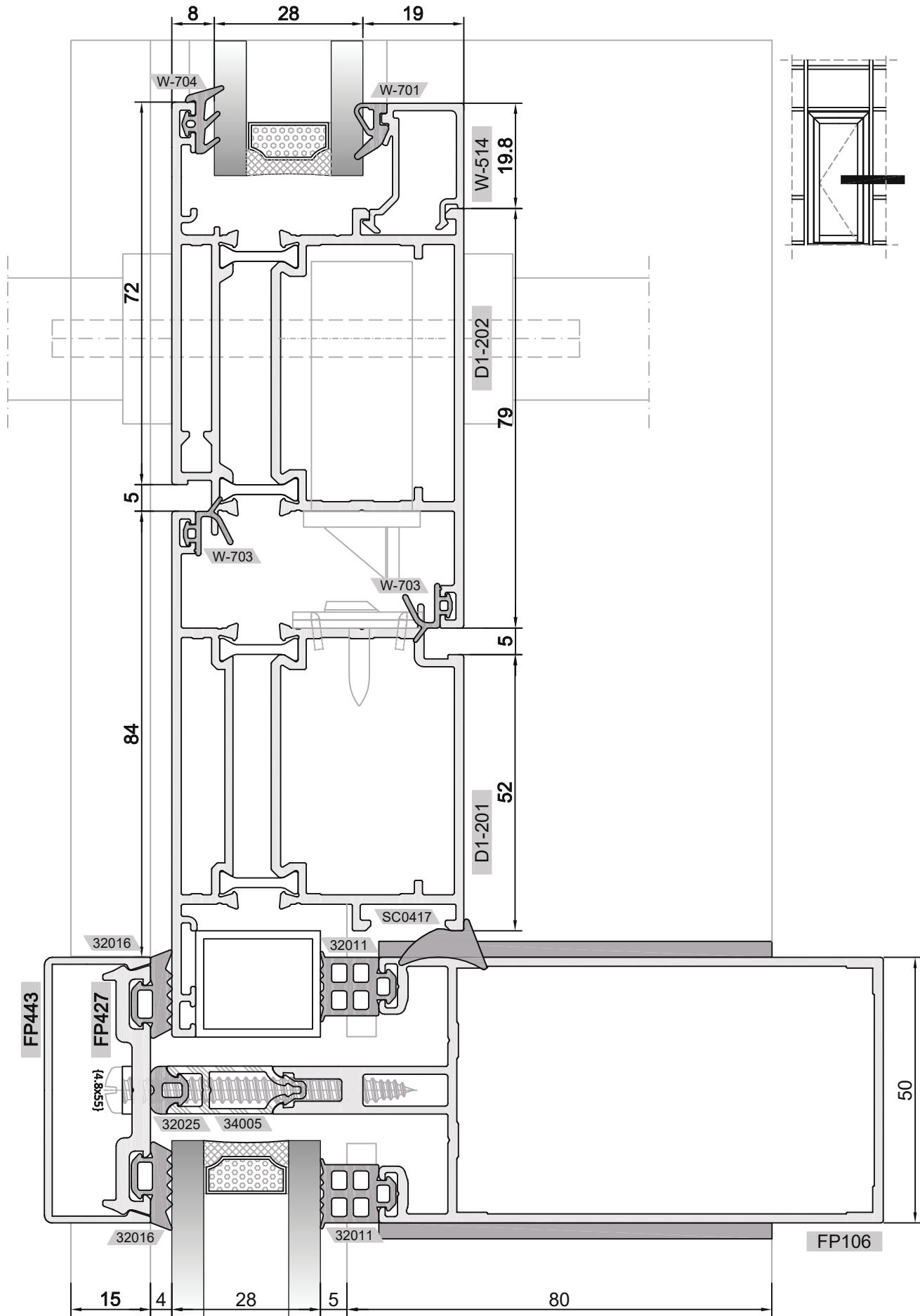


20° - 10°



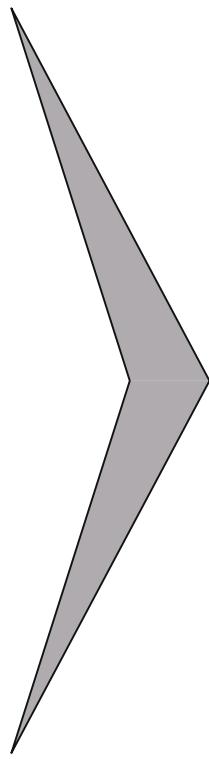






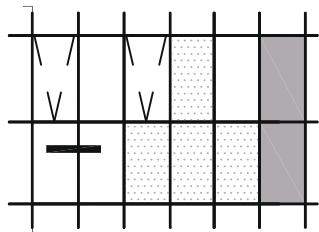
ENTEGRE CEPHE

INTEGRATED CURTAIN WALL

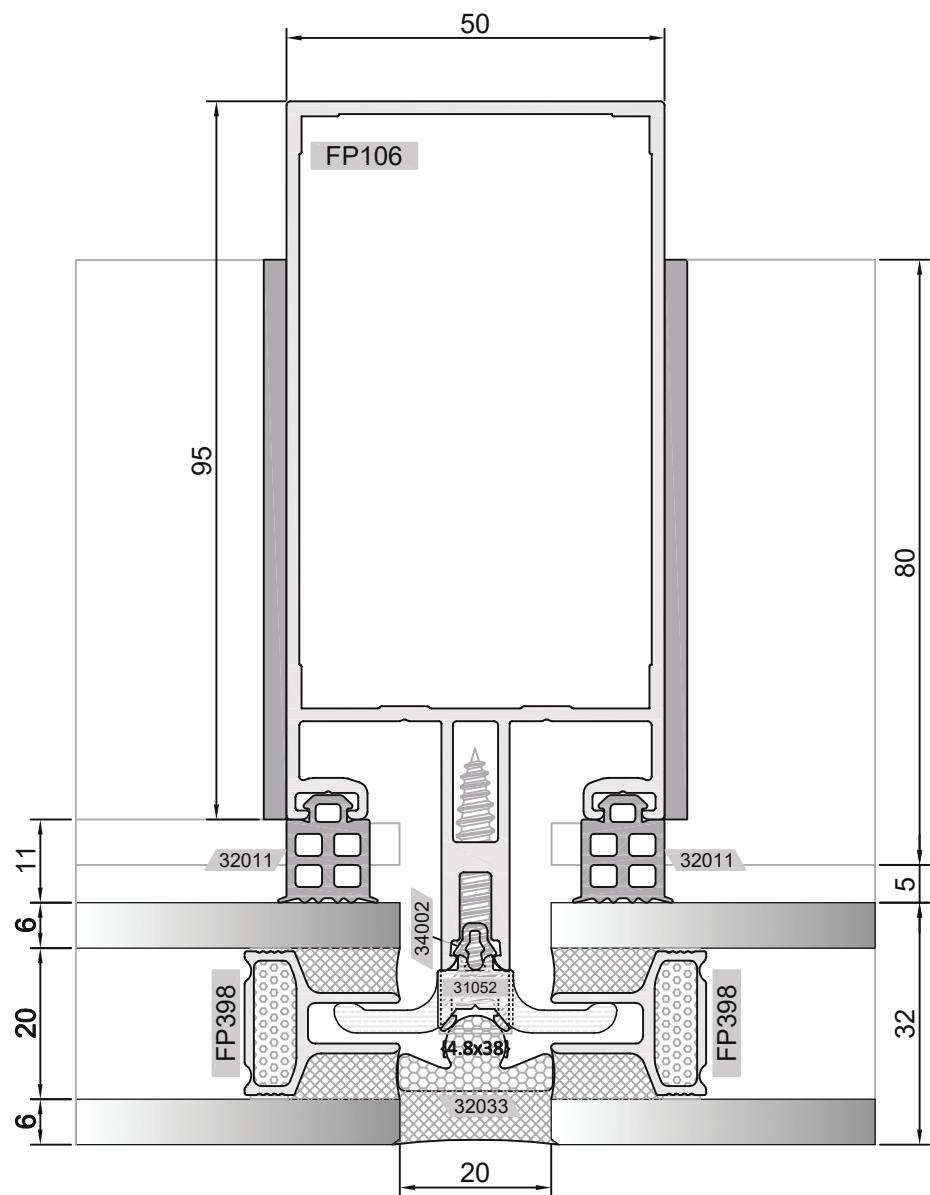


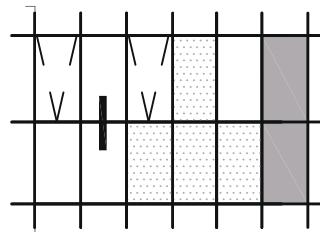
* 20mm STANDARD
ALÜMİNYUM İSICAM
ÇITASI
20mm STANDARD
ALUMINIUM SPACER

► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
SİSTEM ALUMINIUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

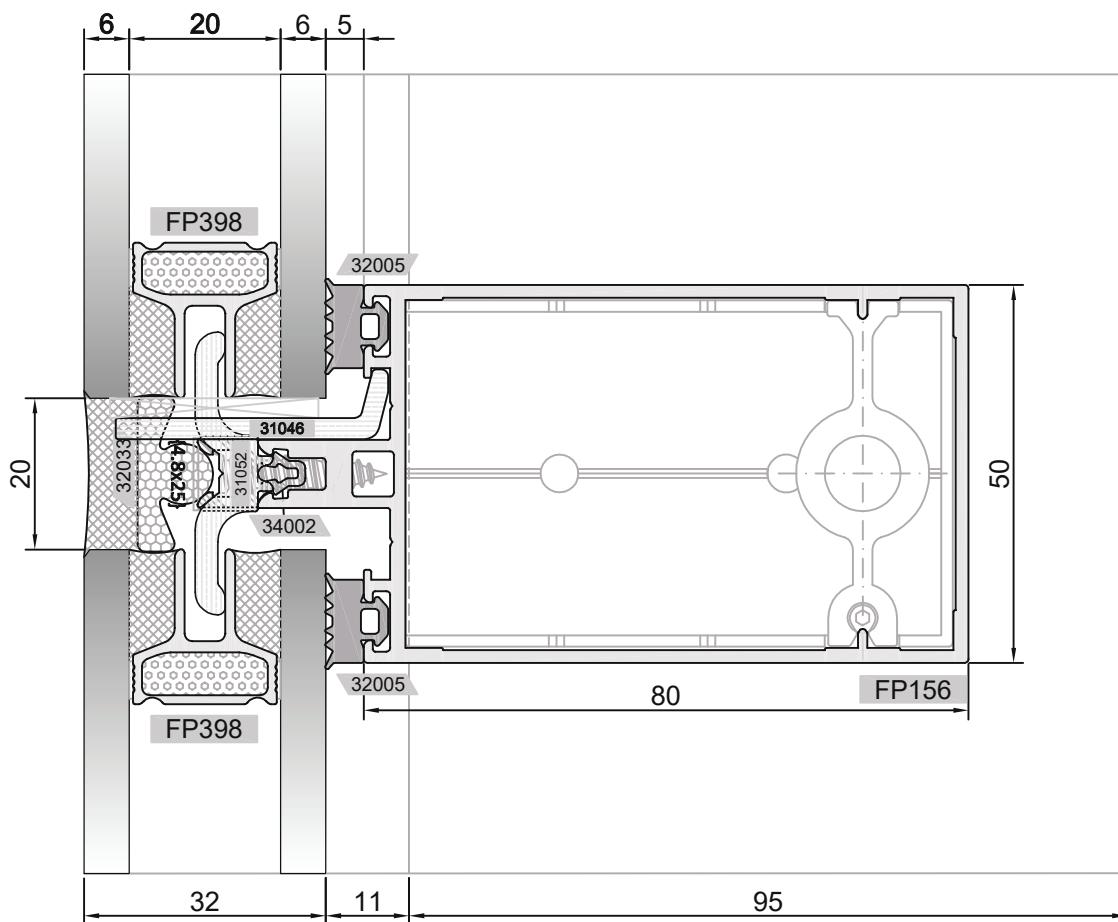


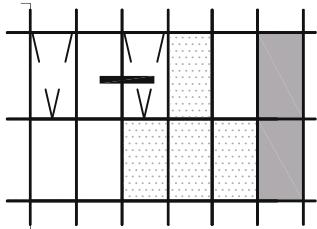
DÜŞEY DETAYI
VERTICAL DETAIL





YATAY DETAYI
HORIZONTAL DETAIL

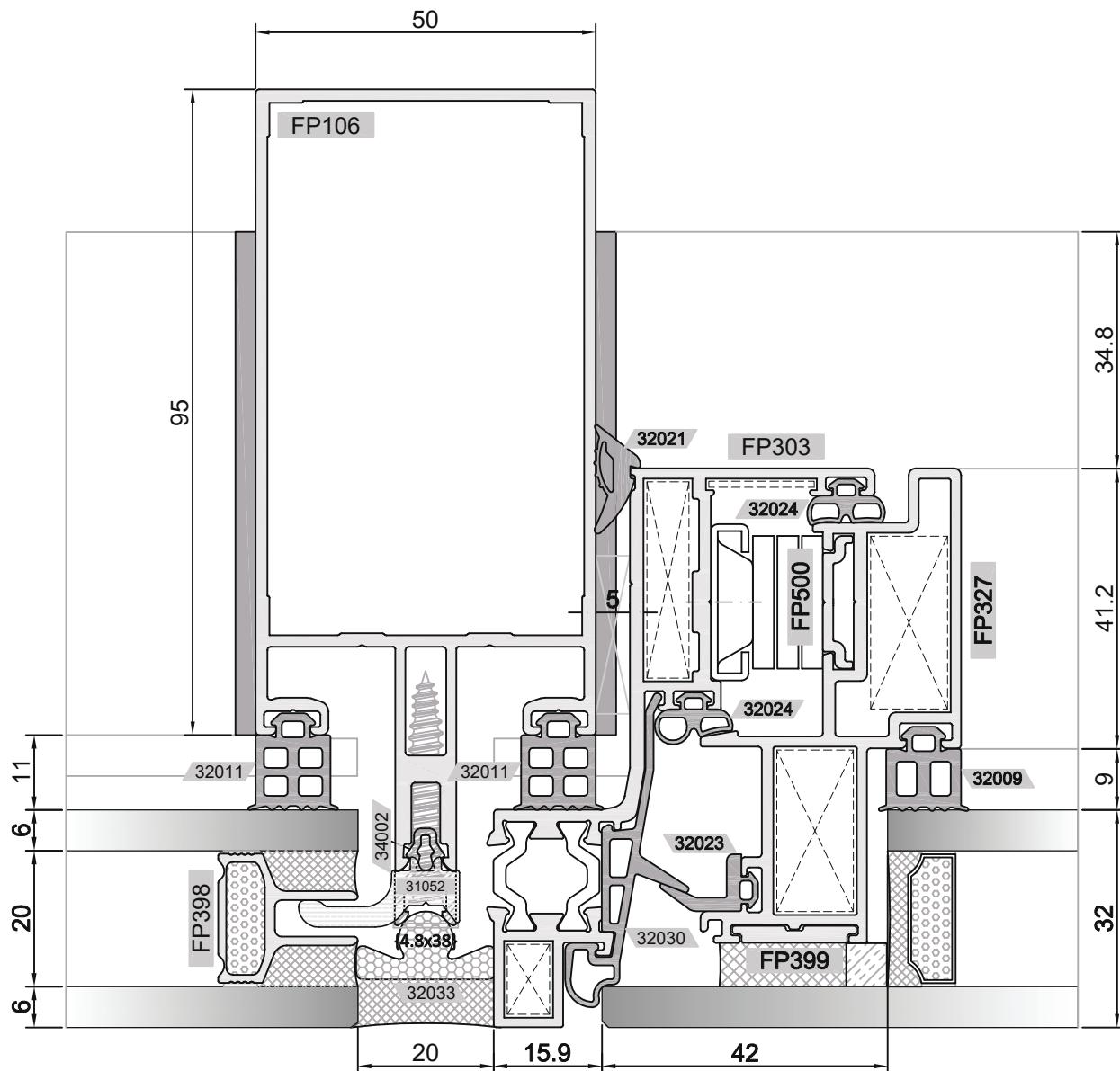


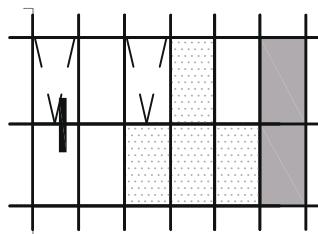


DÜŞEY DETAYI VERTICAL DETAIL

ALTERNATİF 1: YALITIMSIZ KANAT DETAYI

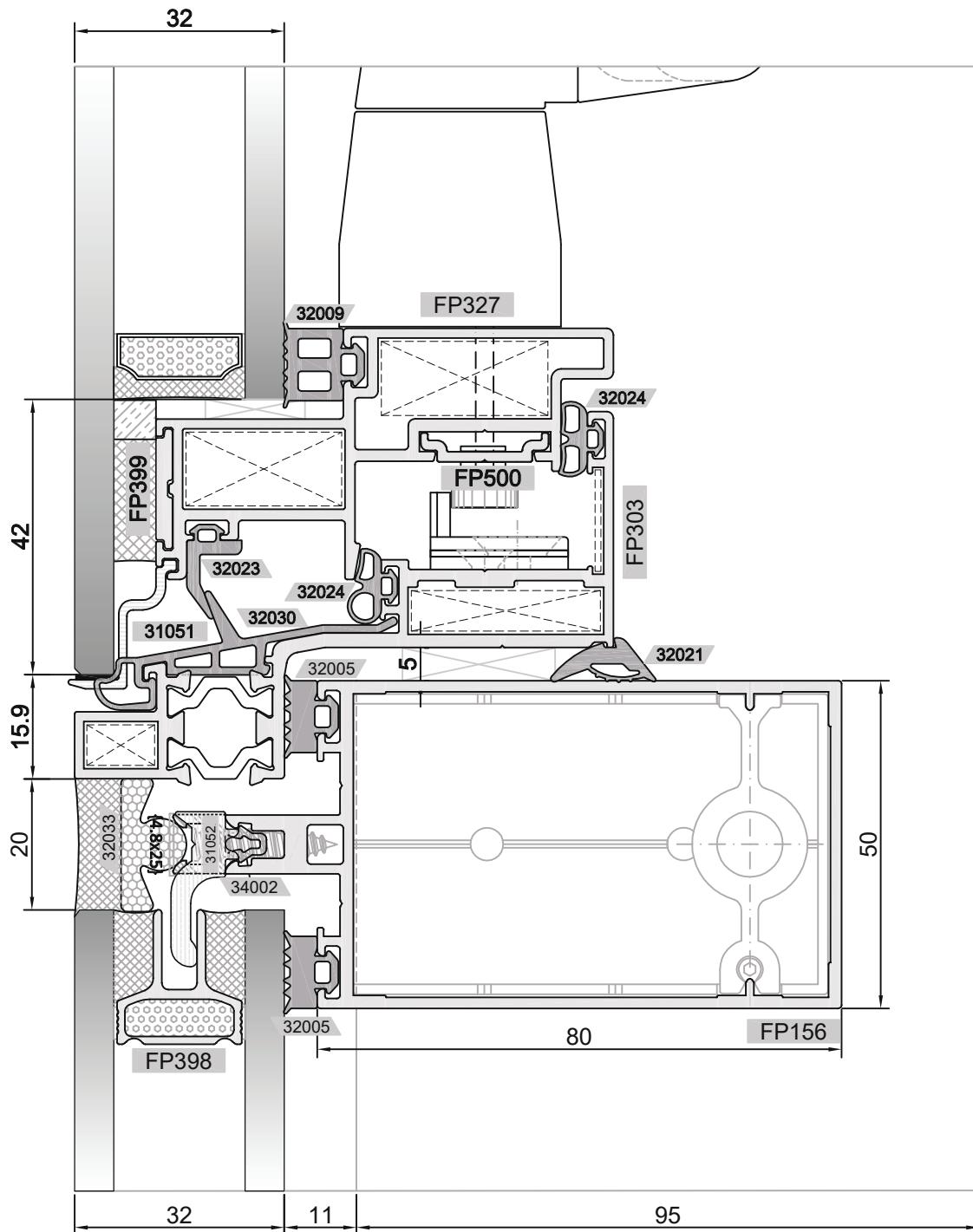
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

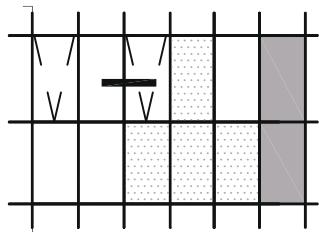




ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

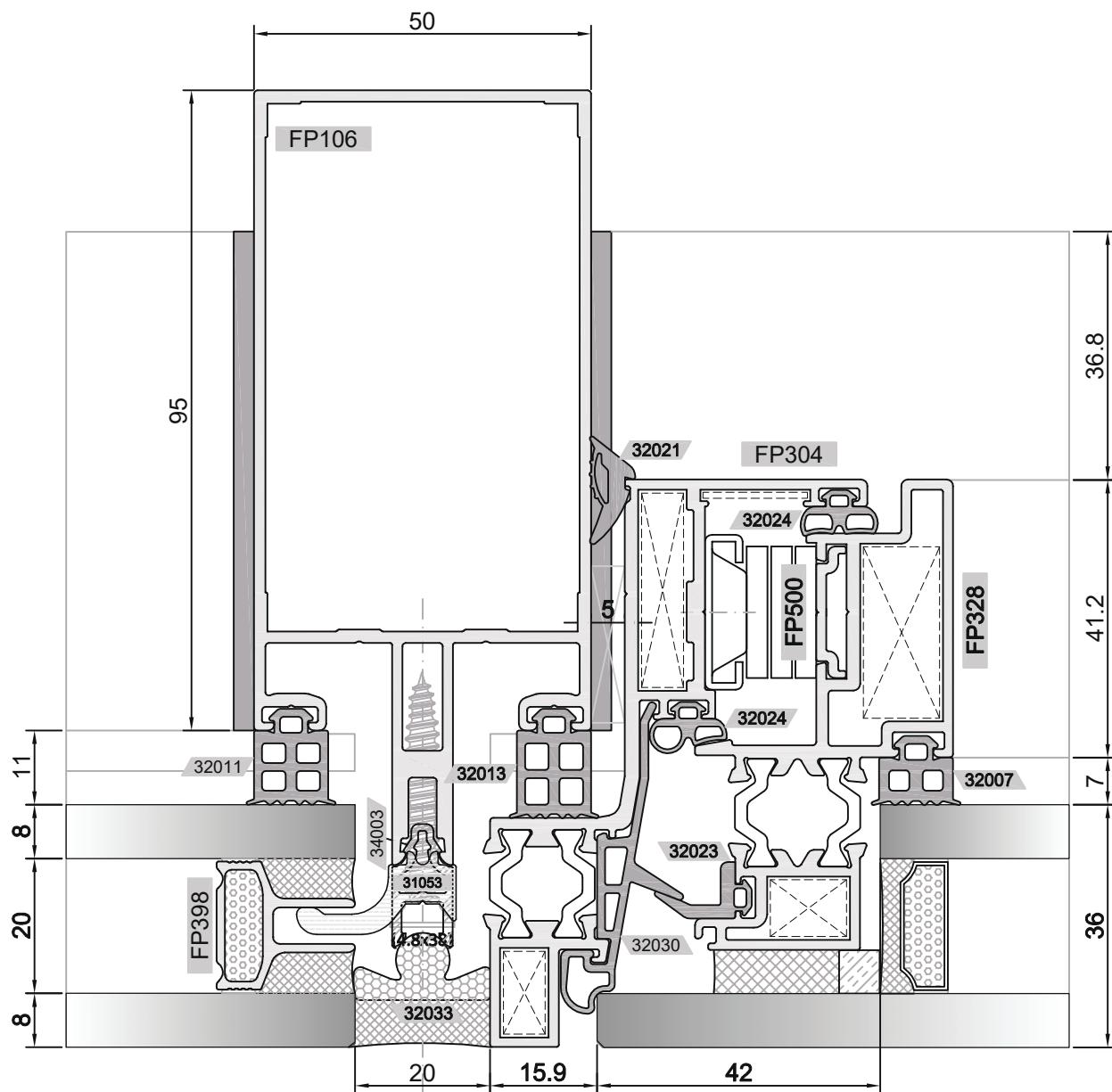
YATAY DETAYI
HORIZONTAL DETAIL

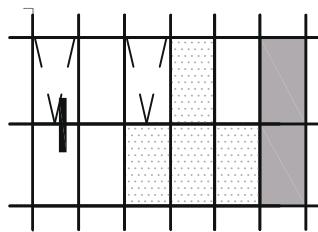




ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

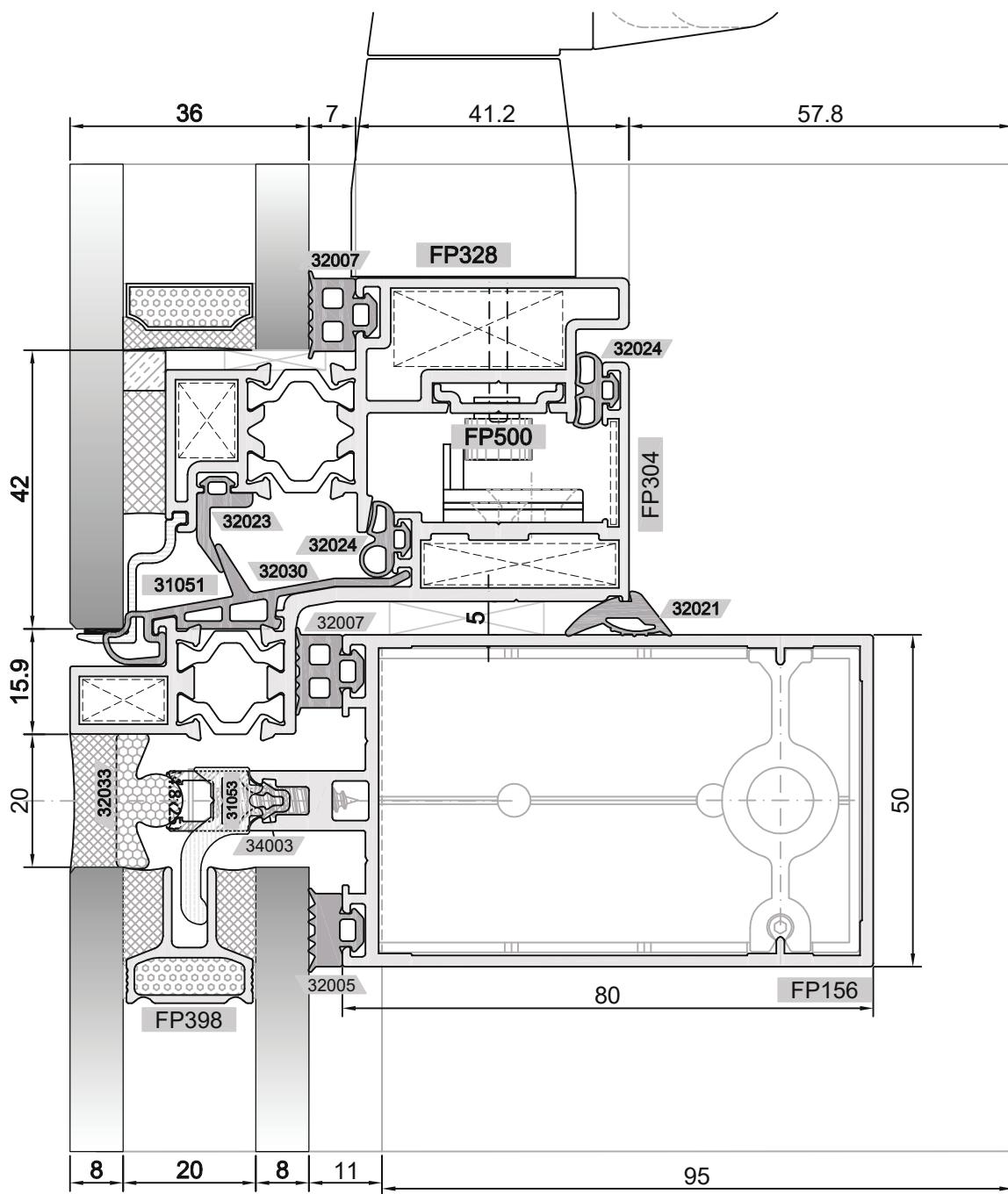
DÜŞEY DETAYI
VERTICAL DETAIL

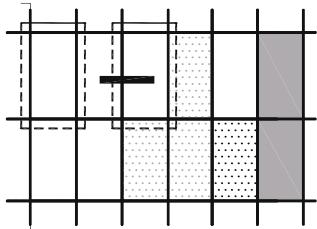




YATAY DETAYI
HORIZONTAL DETAIL

ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

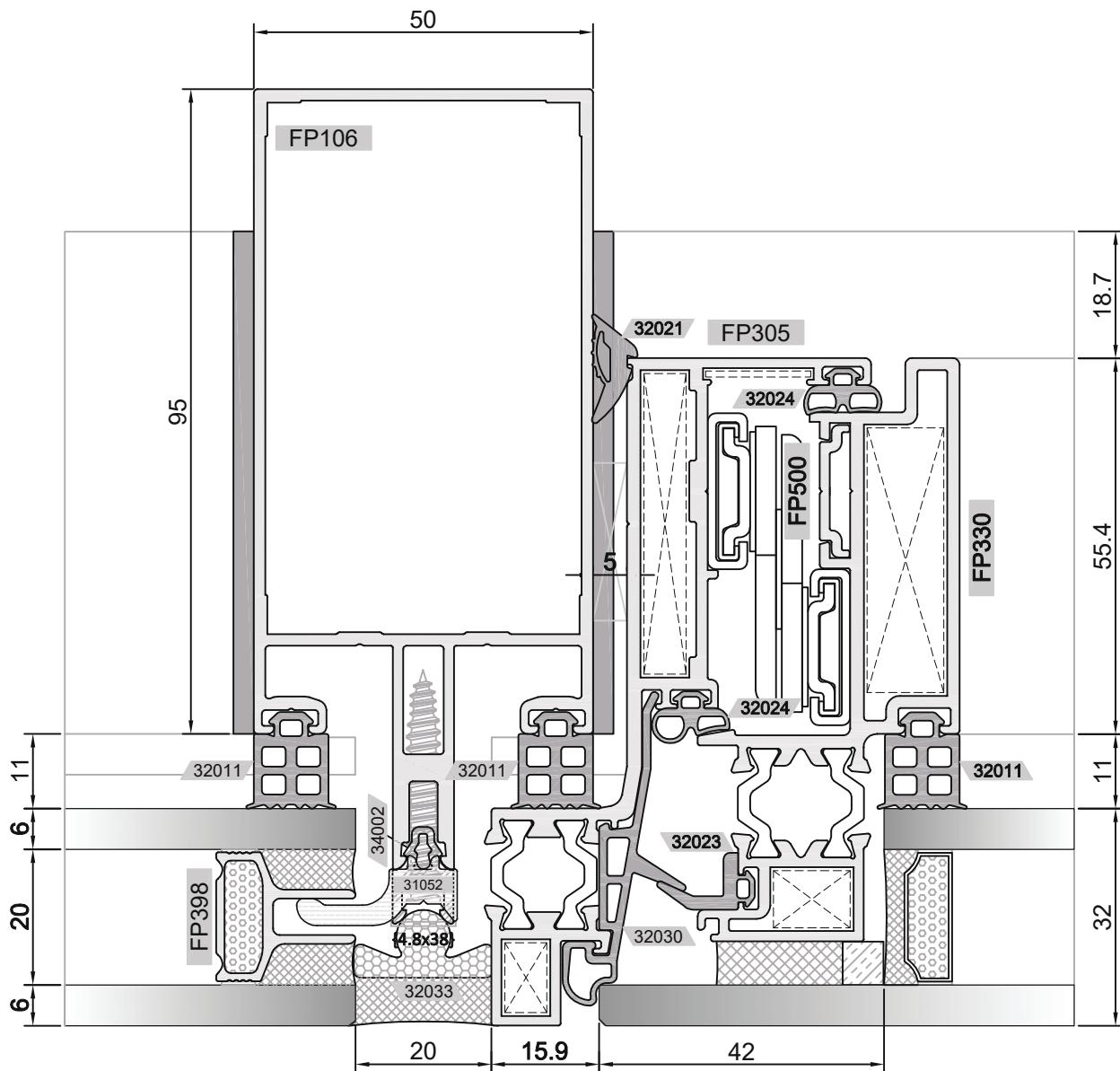


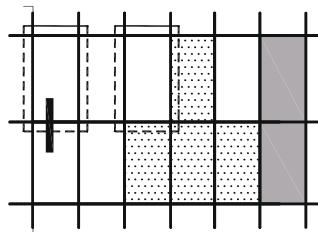


ALTERNATİF 1: YALITIMLI PARALEL AÇILIR KANAT DETAYI

ALTERNATIVE 1 : PARALLEL OPENING INSULATED VENT DETAIL

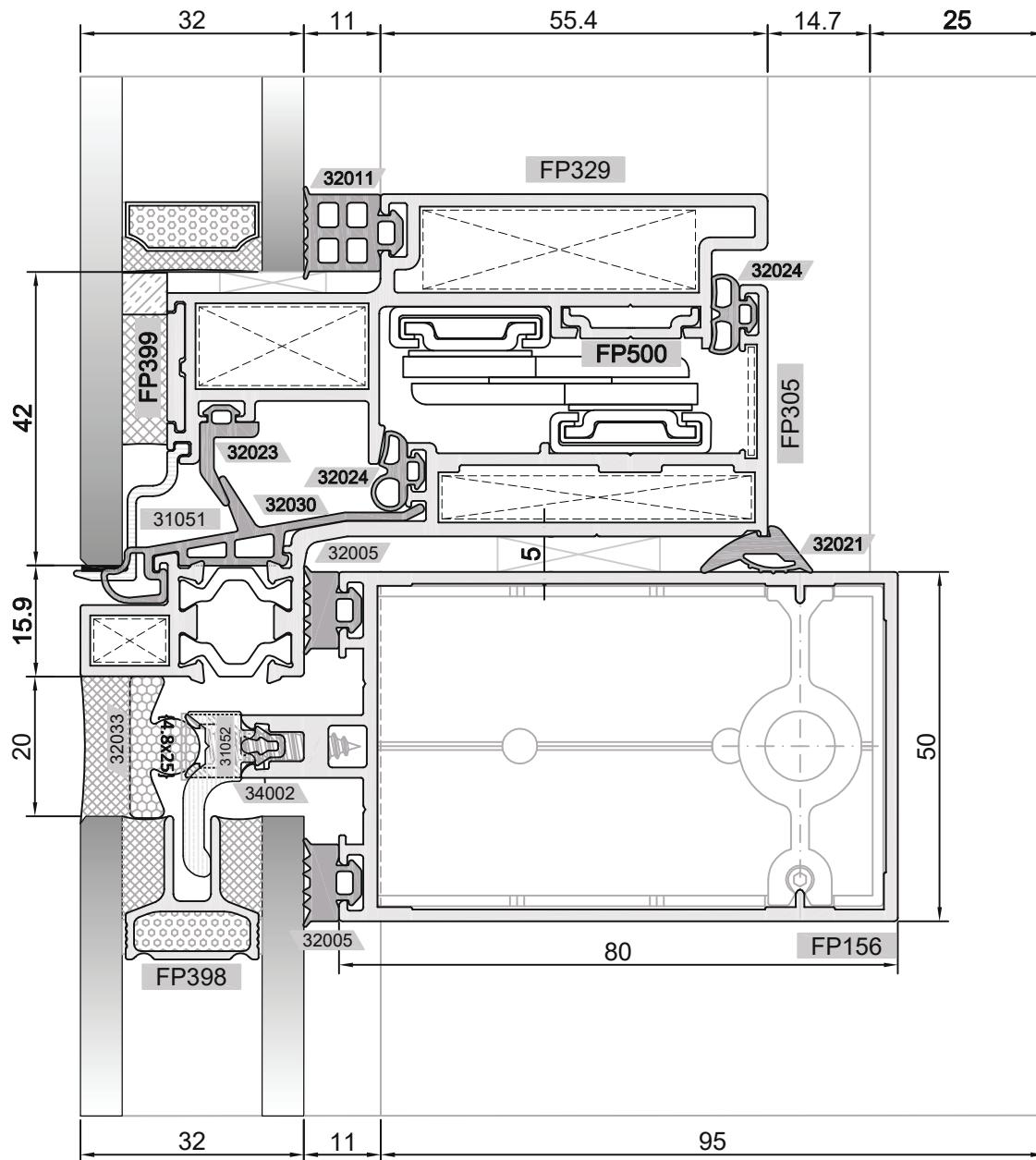
DÜŞEY DETAYI VERTICAL DETAIL

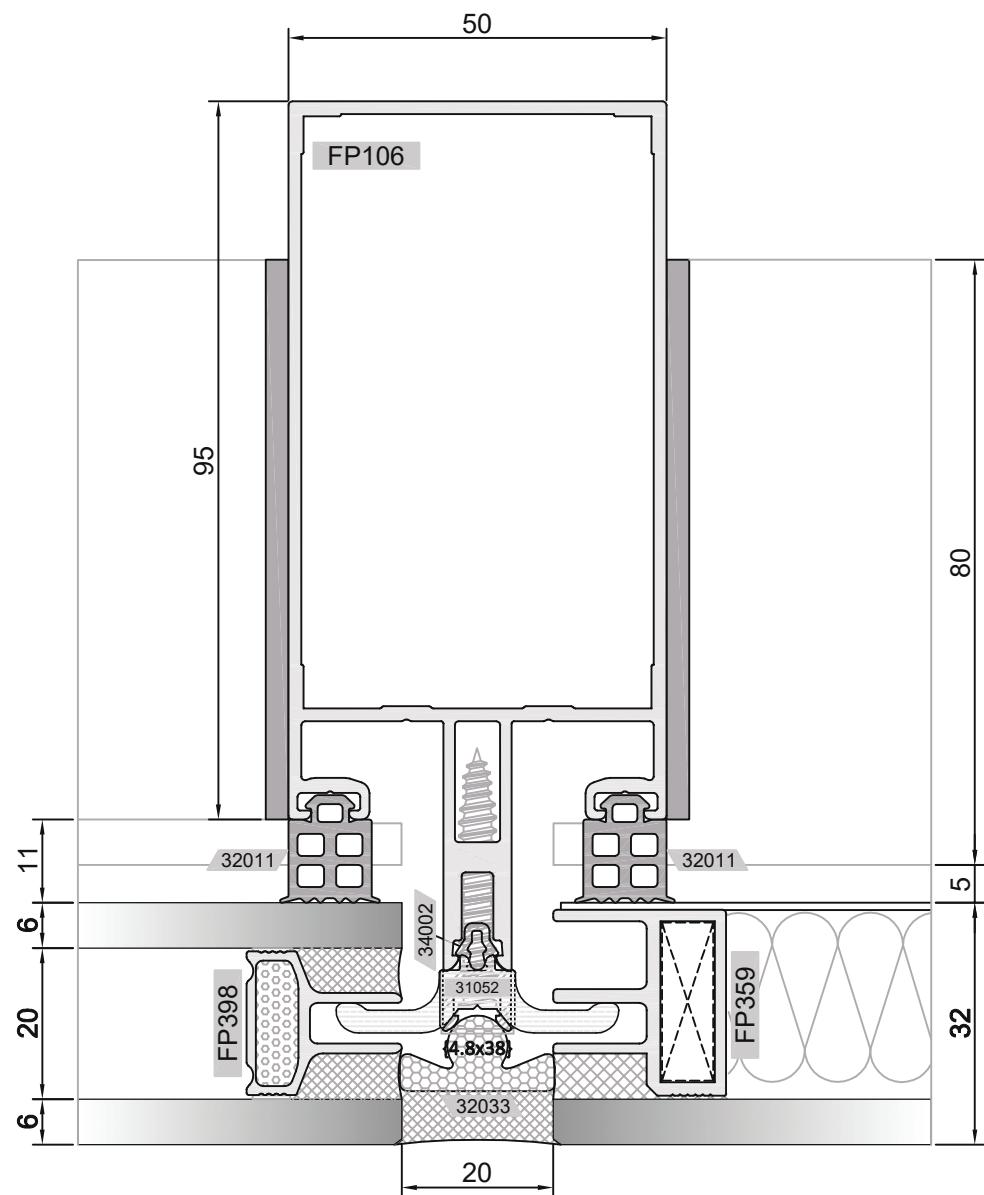
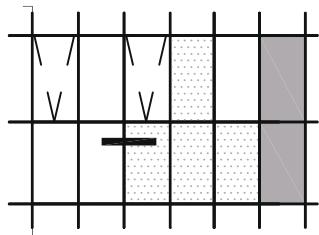


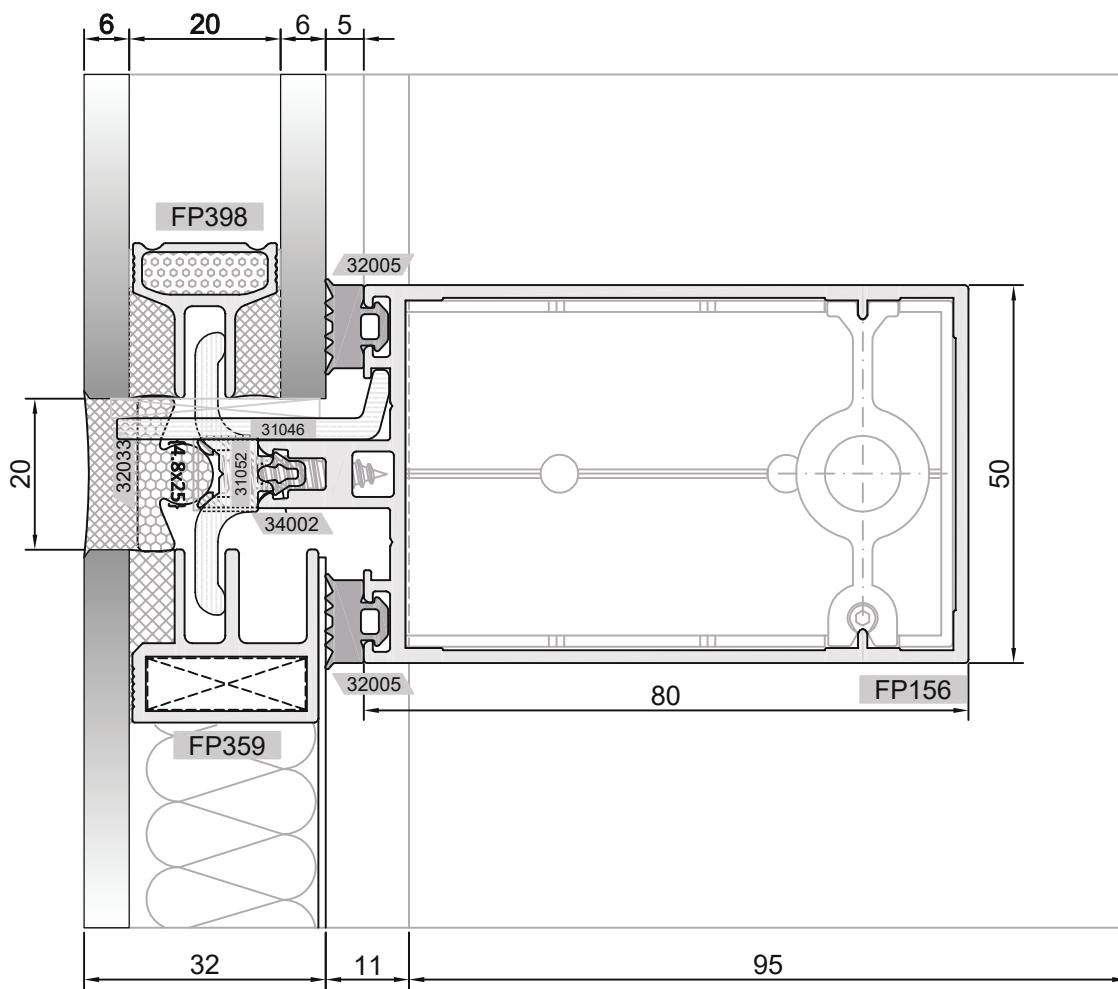
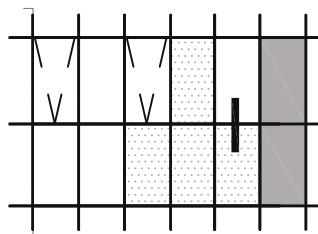


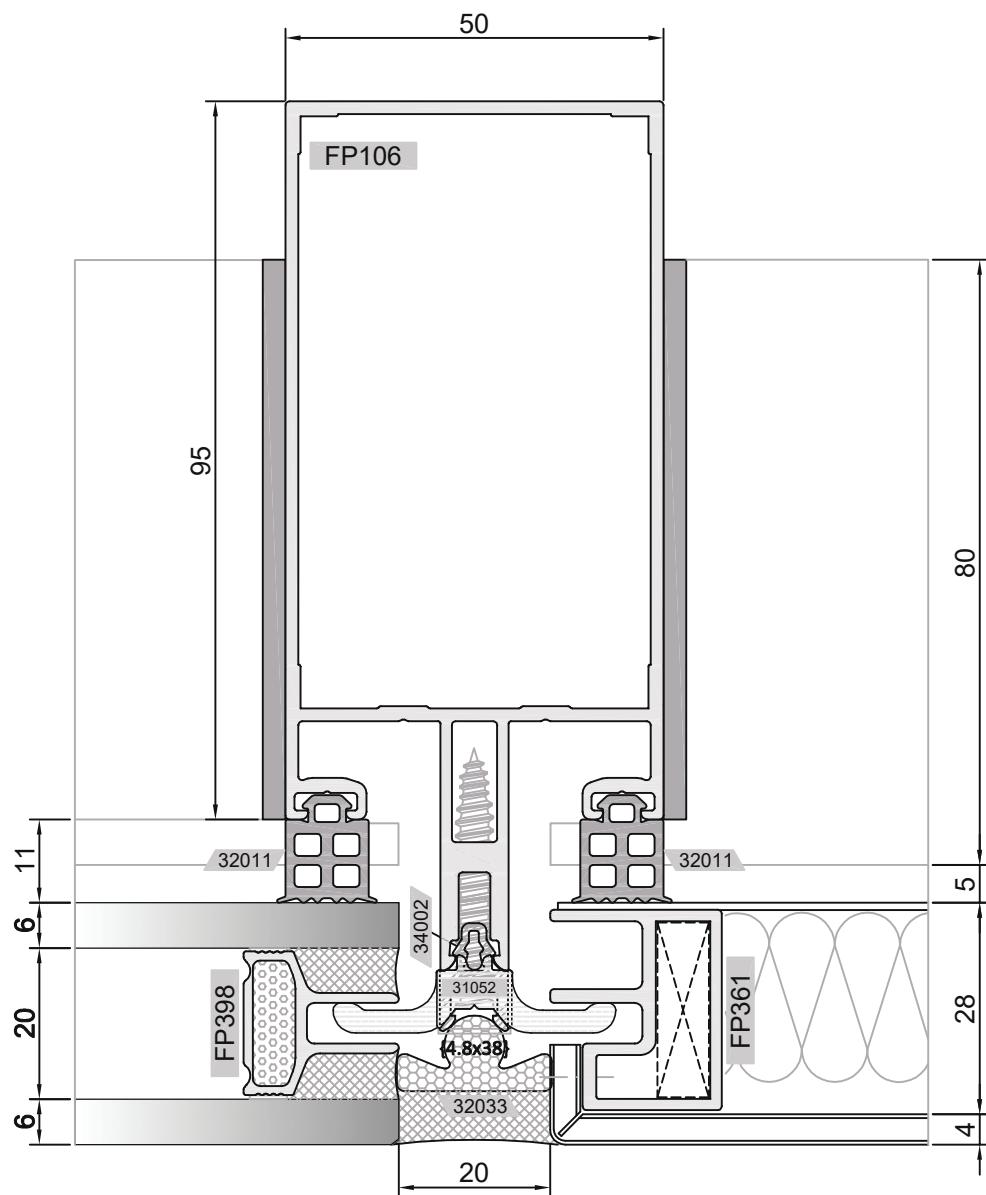
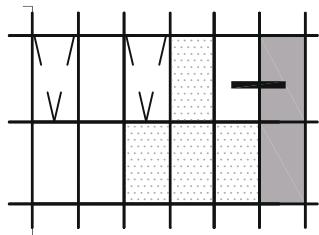
ALTERNATİF 2: YALITIMSIZ PARALEL AÇILIR KANAT DETAYI ALTERNATIVE 2 : PARALLEL OPENING UNINSULATED VENT DETAIL

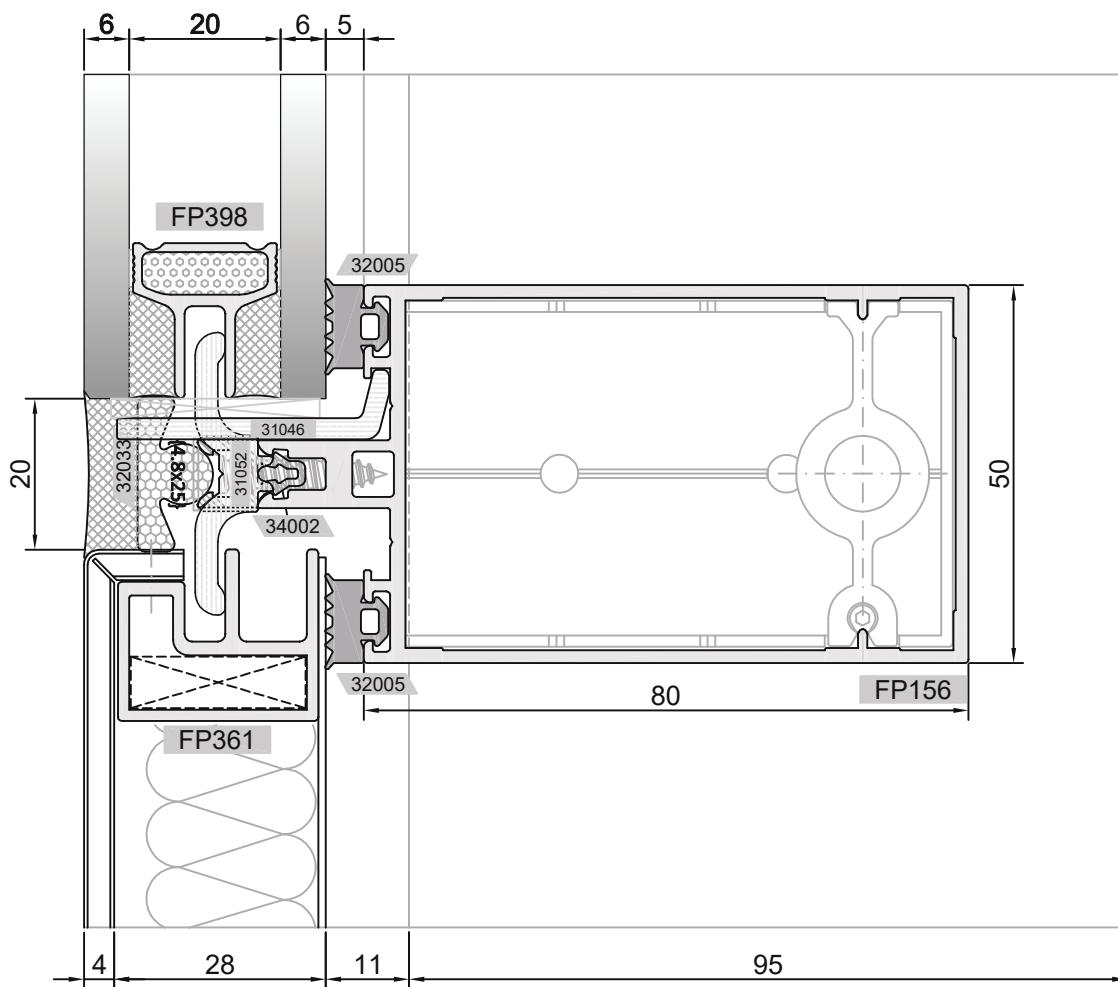
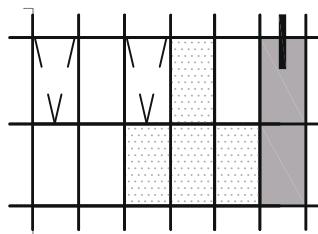
YATAY DETAYI
HORIZONTAL DETAIL

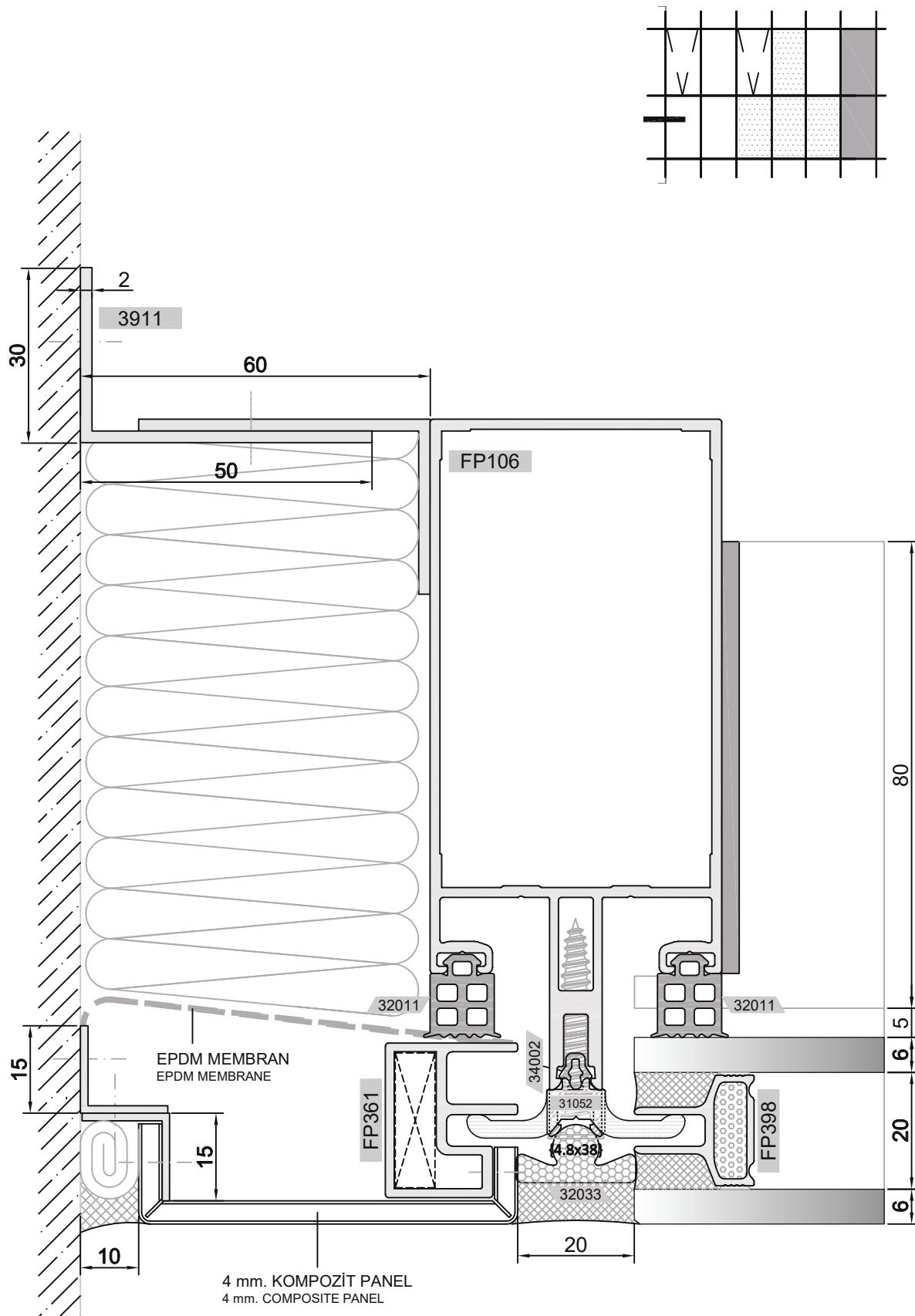


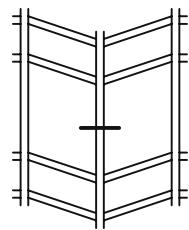




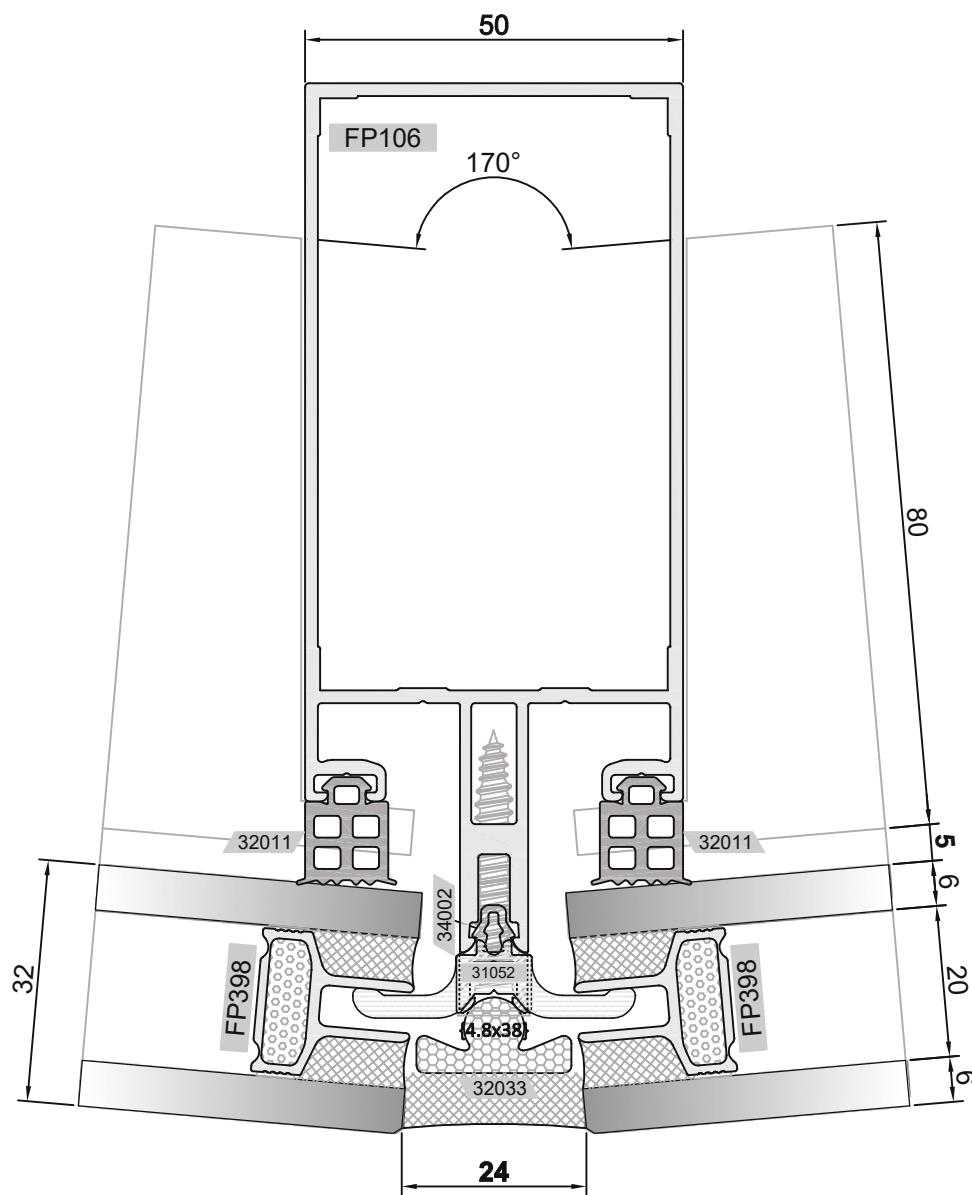


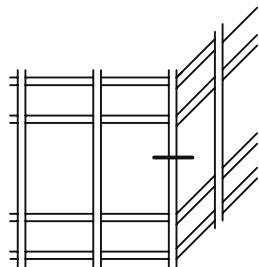




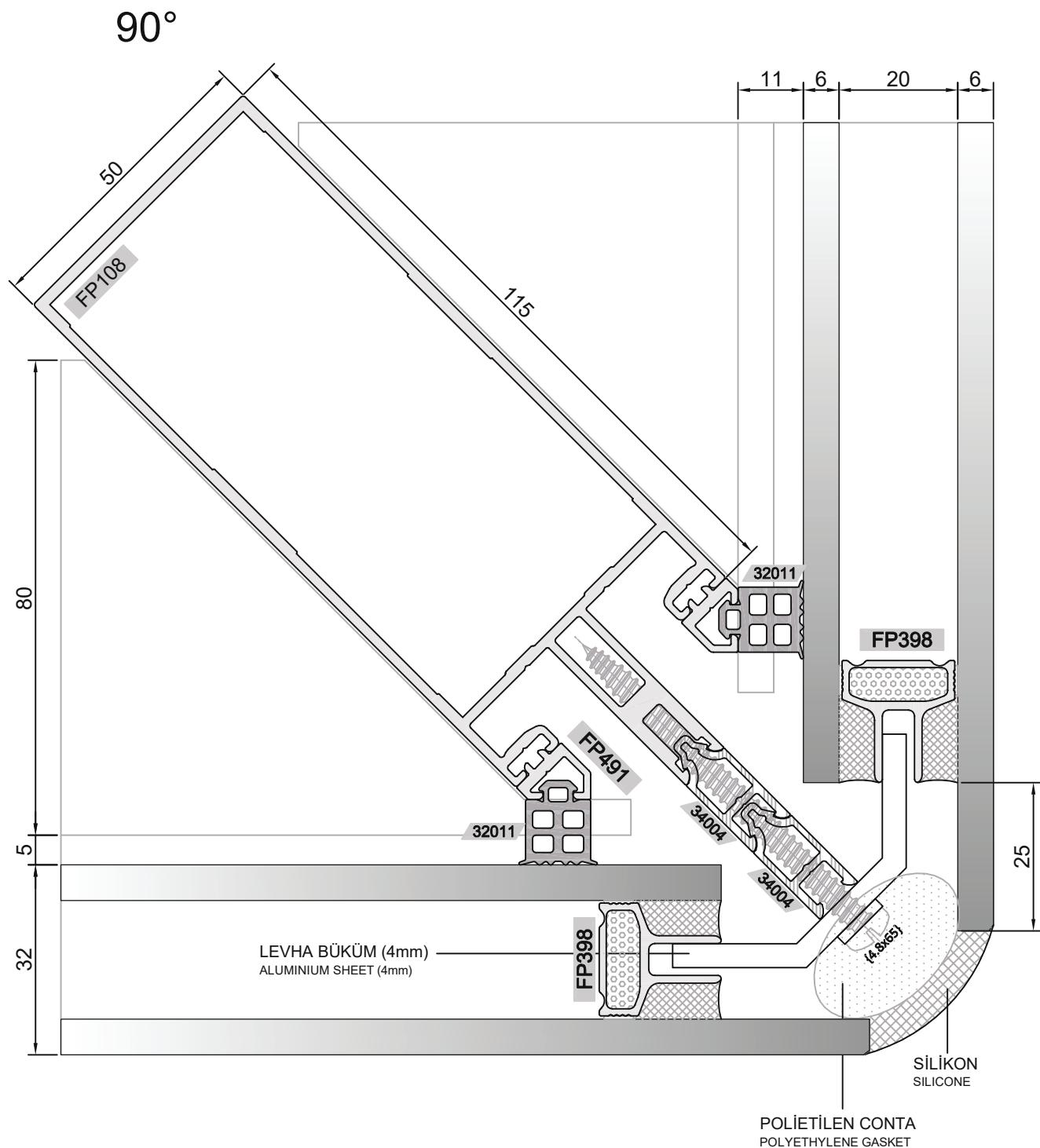


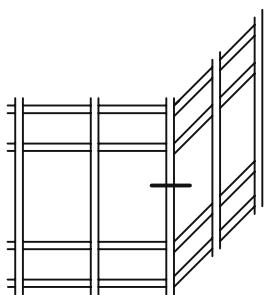
0° - 10°





ALTERNATİF 1: TEK DİKMELİ KÖŞE DETAYI
ALTERNATIVE 1 : CORNER DETAIL WITH SINGLE MULLION

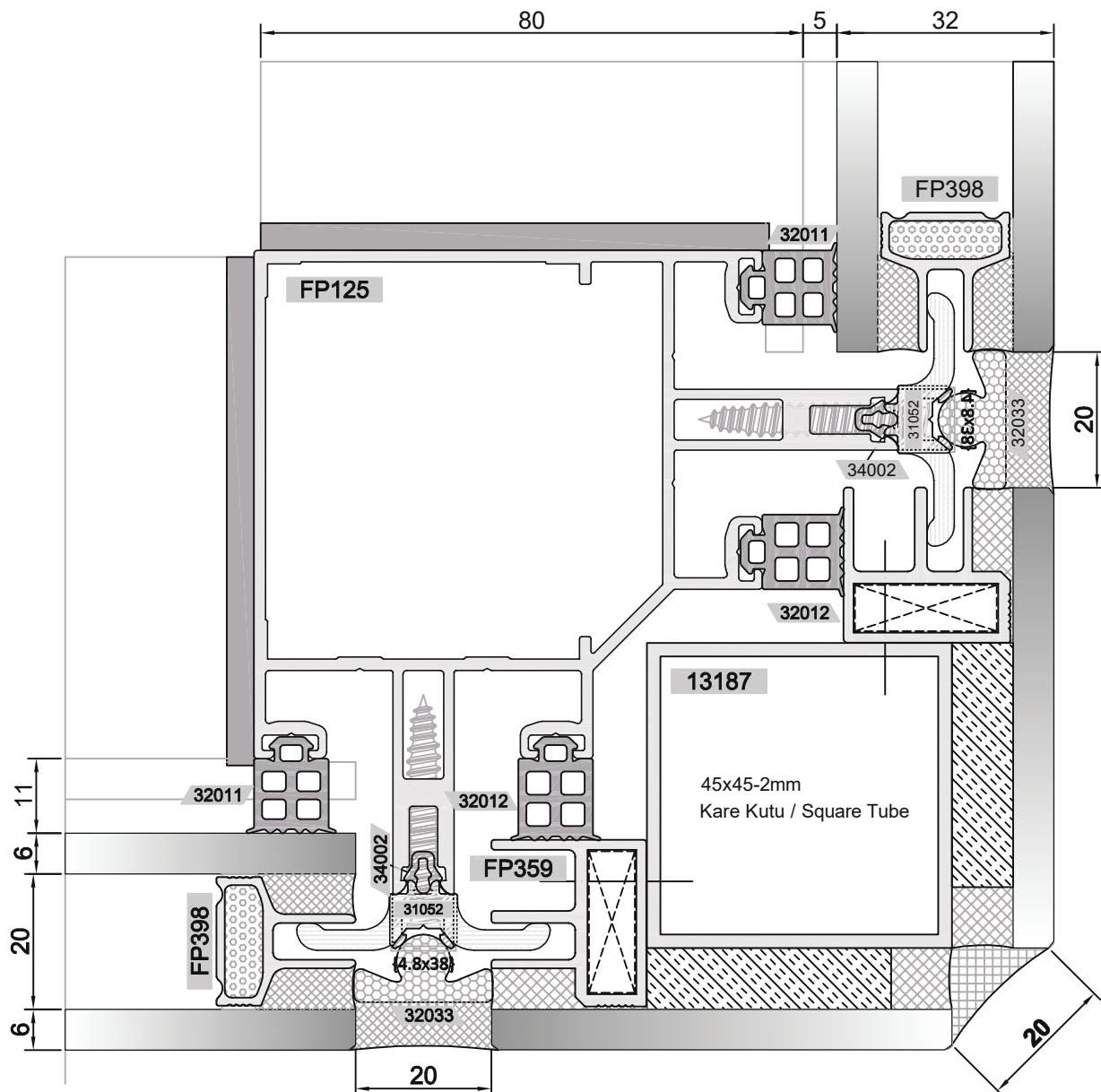


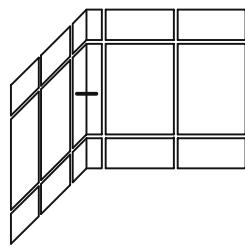


90°

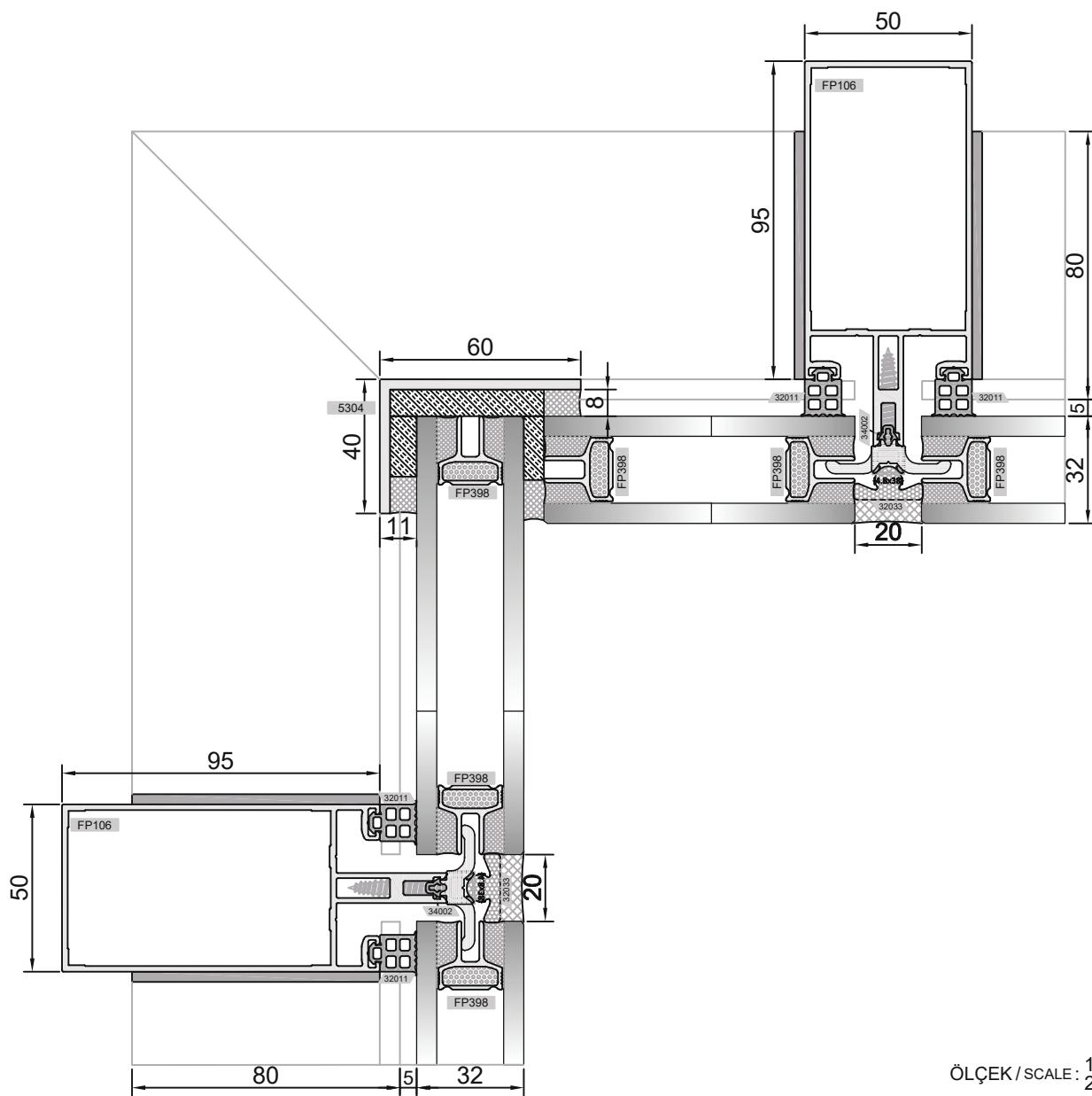
ALTERNATİF 2: ÇİFT DİKMELİ KÖŞE DETAYI

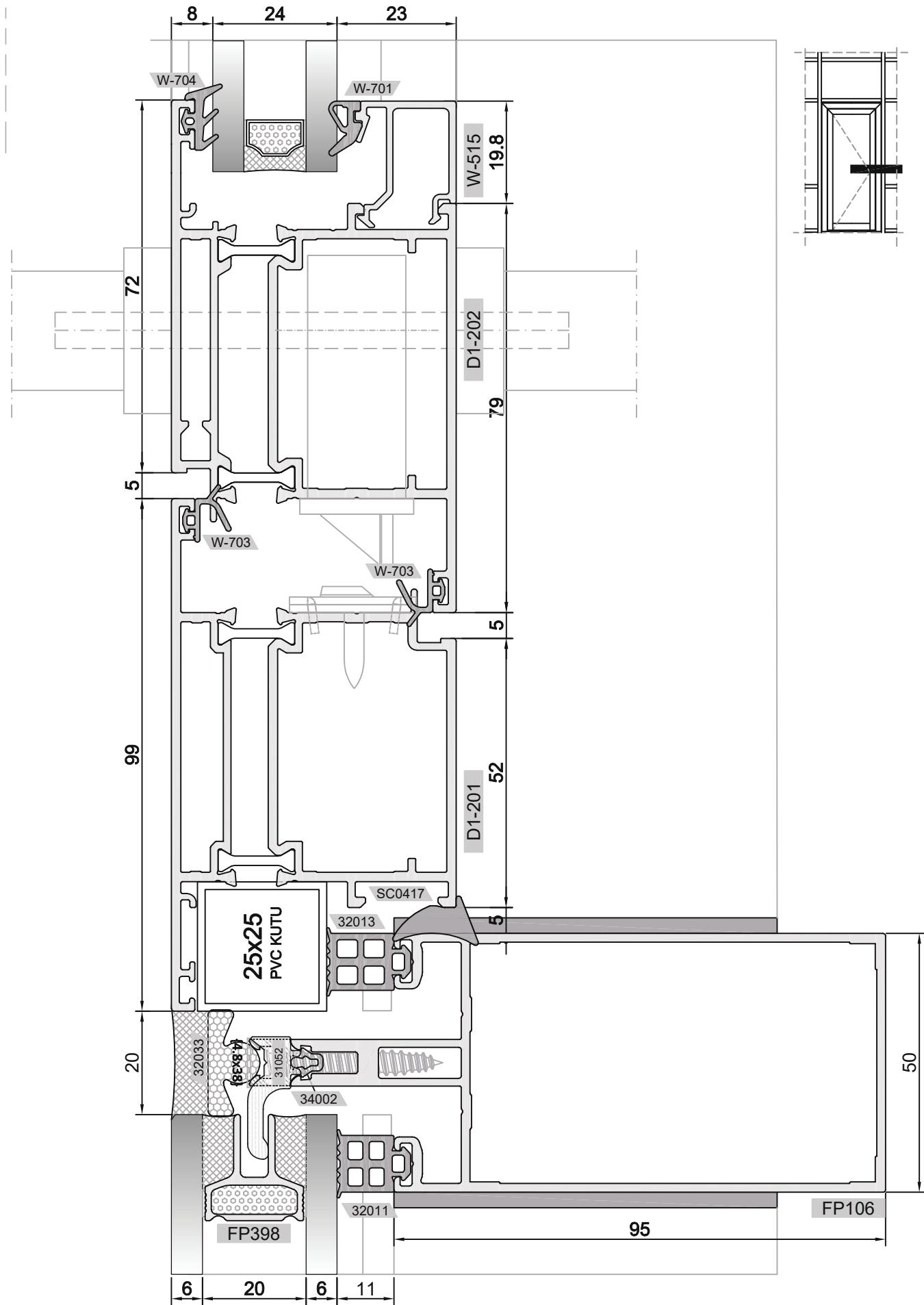
ALTERNATIVE 2 : CORNER DETAIL WITH DOUBLE MULLION



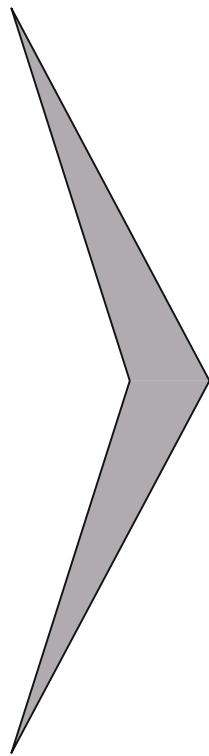


90° İÇ AÇILI CAM CEPHE DÜŞEY KESİT DETAYI
FOUR SIDE WITH 90° INTERNAL ANGLE VERTICAL DETAIL



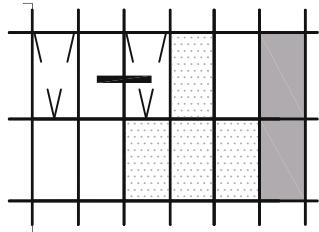


YARI-KAPAKLI CEPHE SEMI-CAPPED CURTAIN WALL

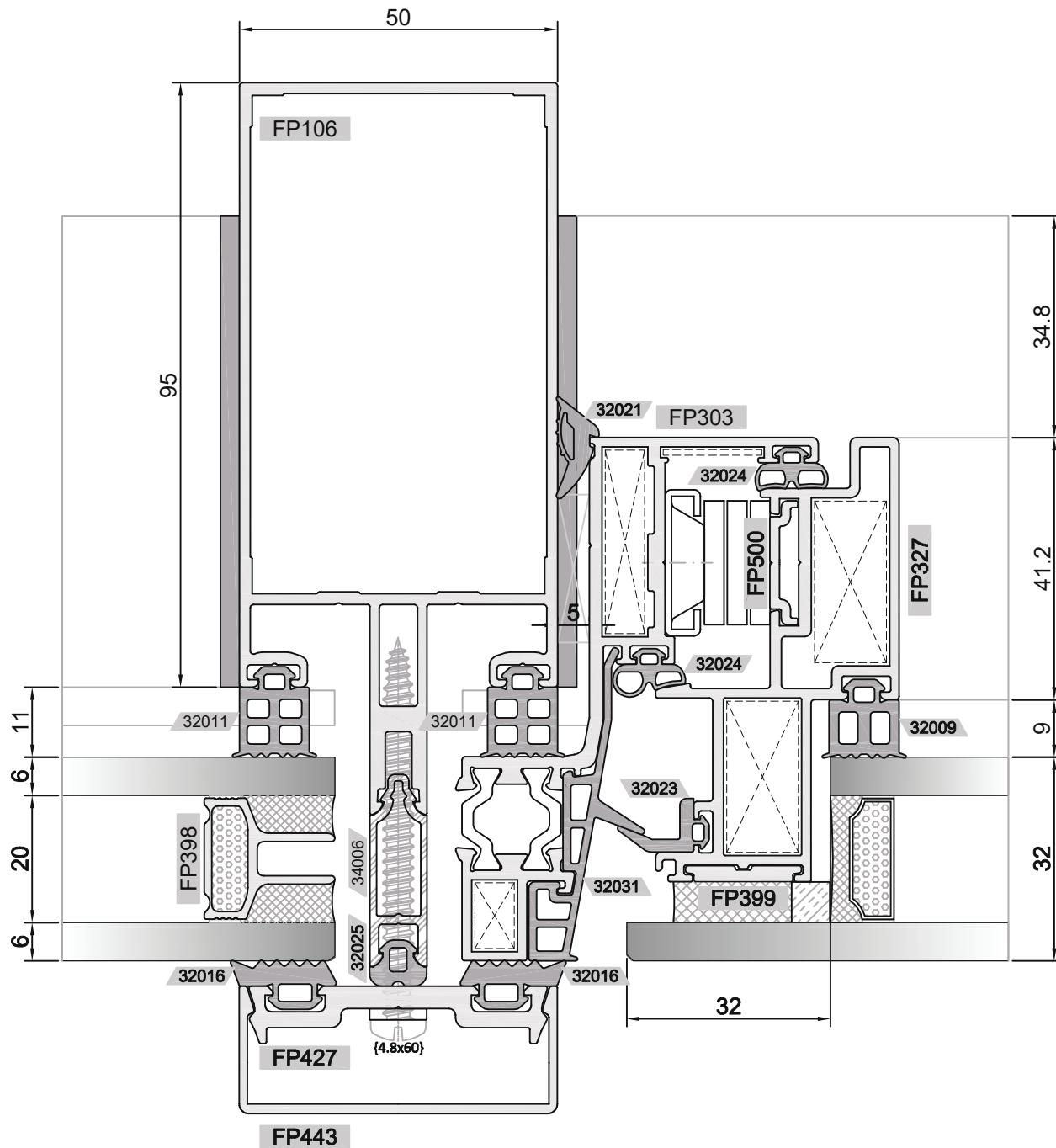


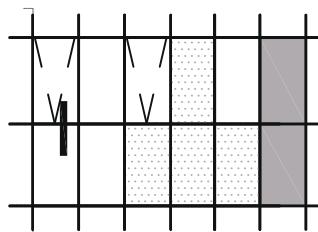
* 20mm STANDARD
ALÜMİNYUM İSICAM
ÇITASI
20mm STANDARD
ALUMINIUM SPACER

► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
SİSTEM ALUMINIUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

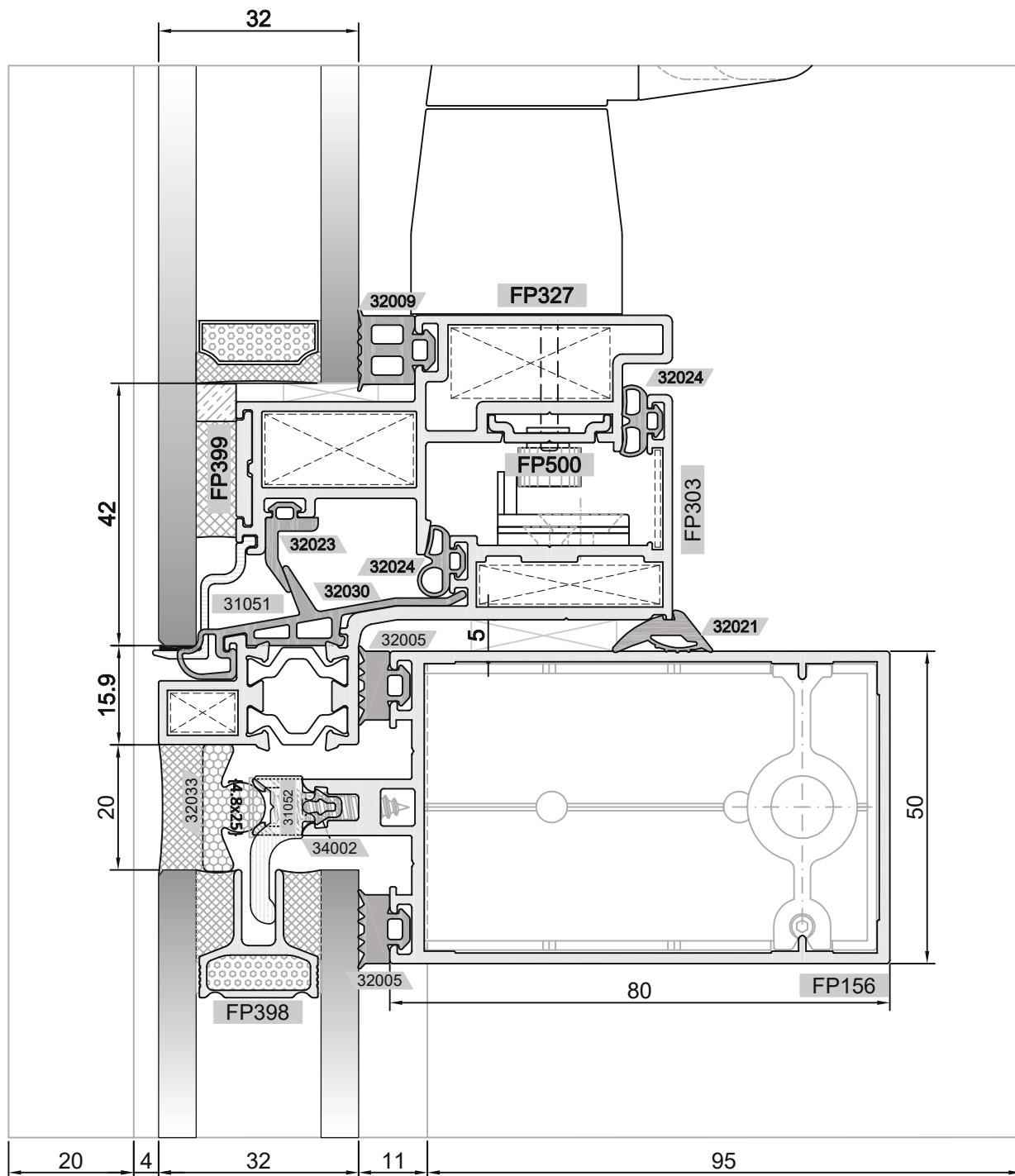


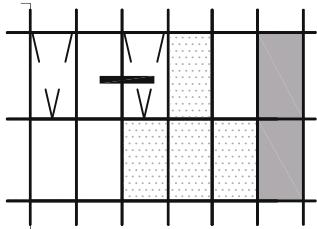
DÜSEY DETAYI
VERTICAL DETAIL



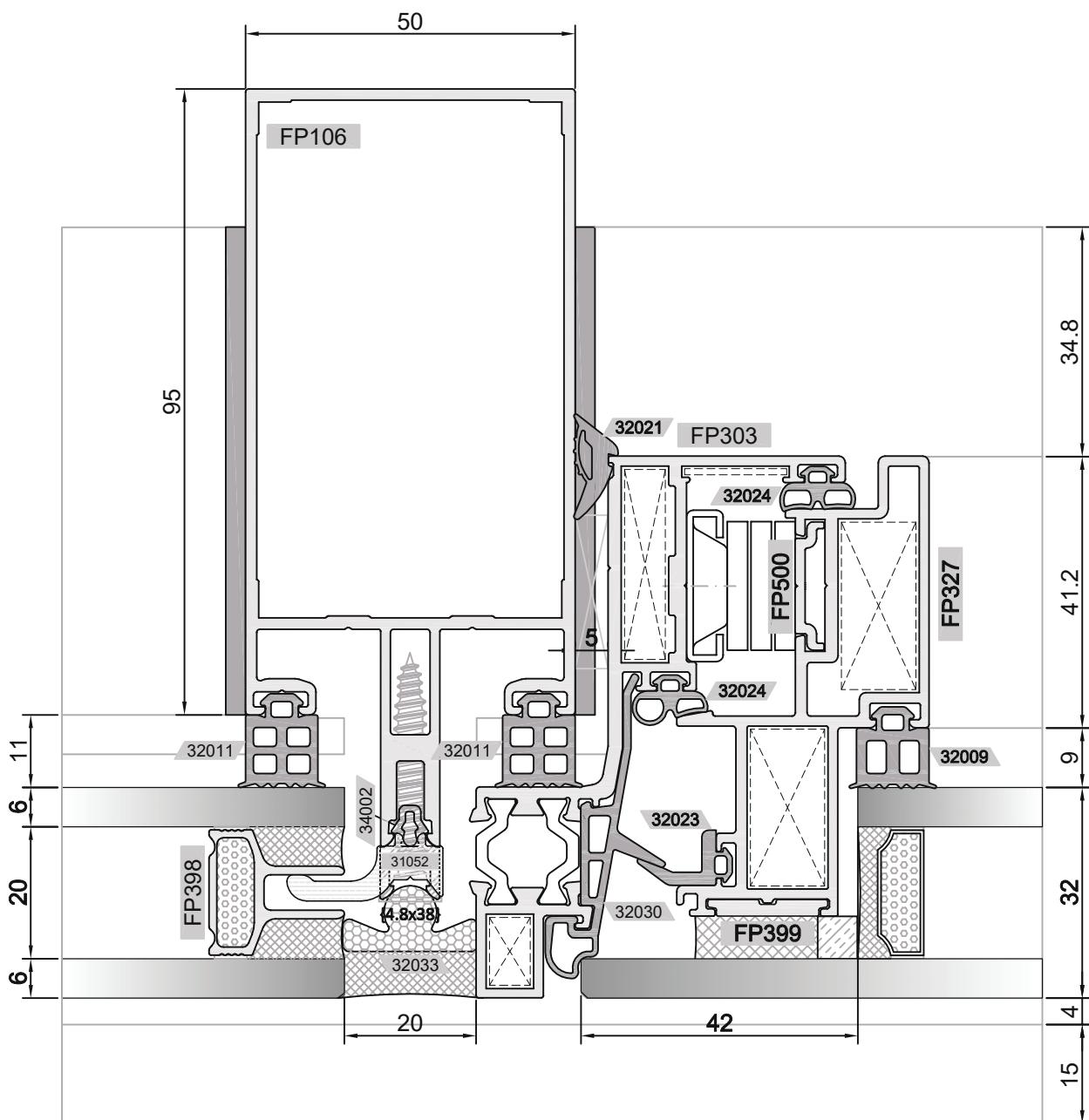


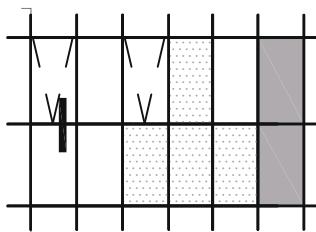
YATAY DETAYI
HORIZONTAL DETAIL



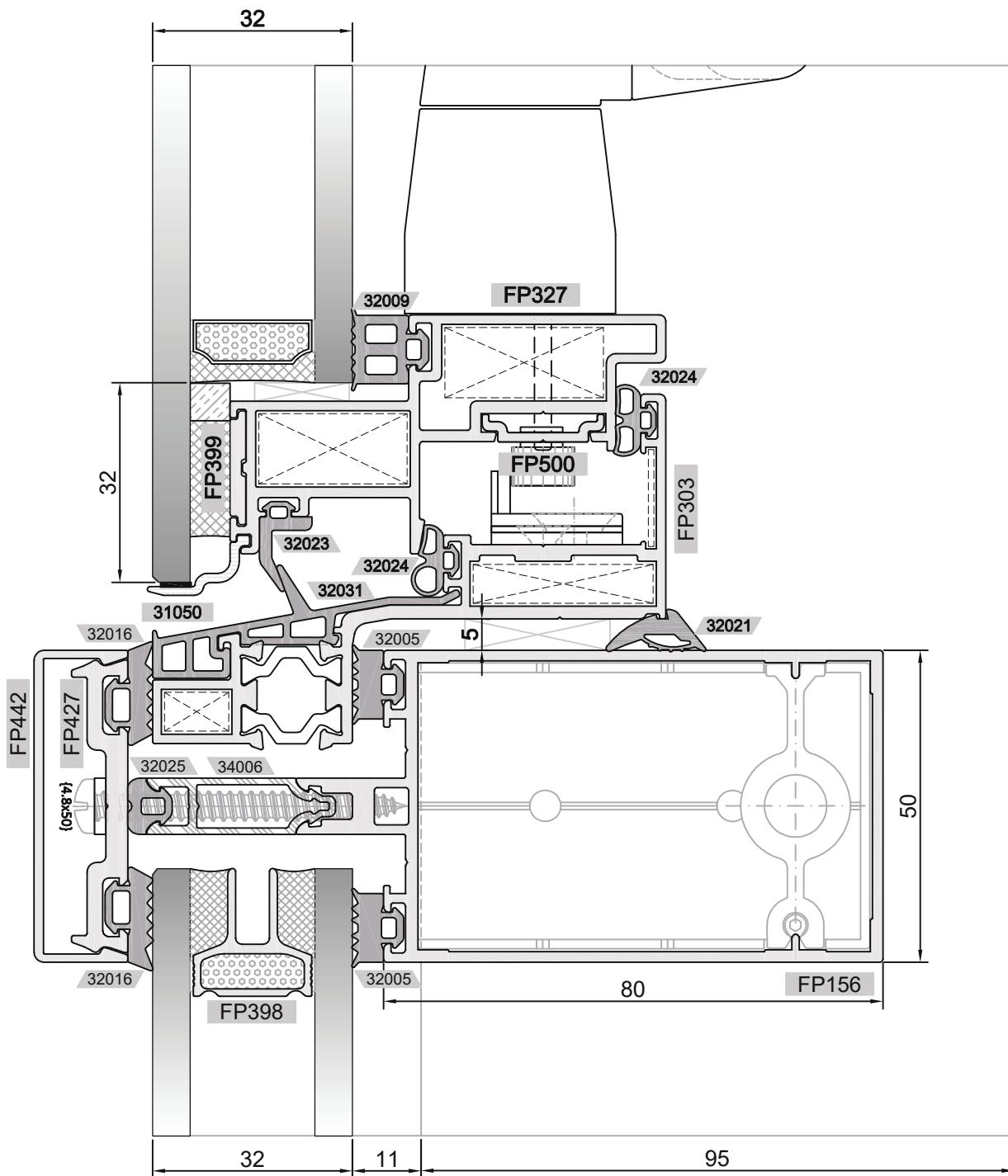


DÜŞEY DETAYI VERTICAL DETAIL



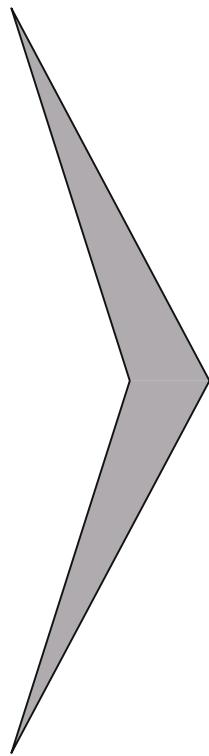


YATAY DETAYI HORIZONTAL DETAIL



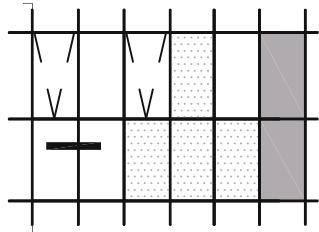
ENTEGRE CEPHE

INTEGRATED CURTAIN WALL

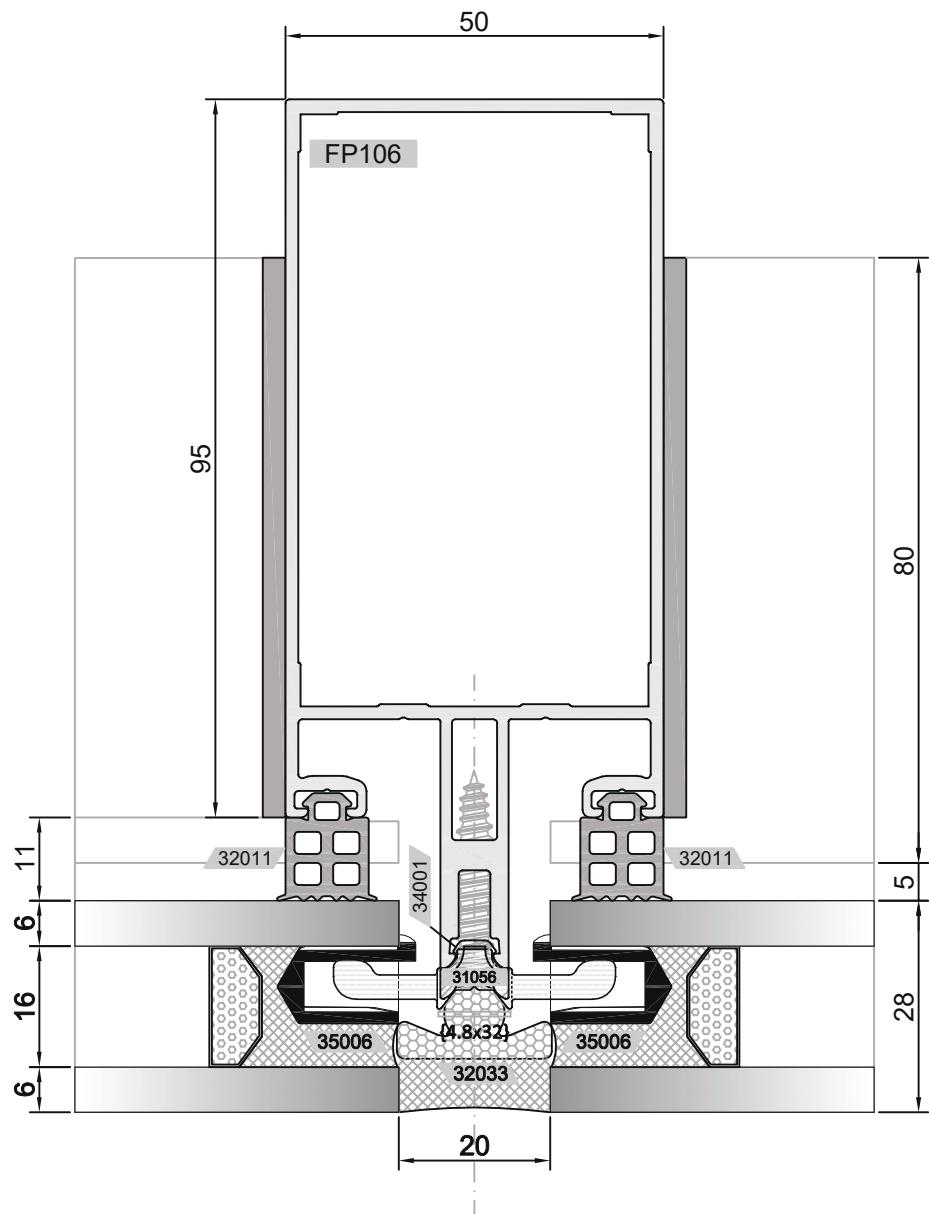


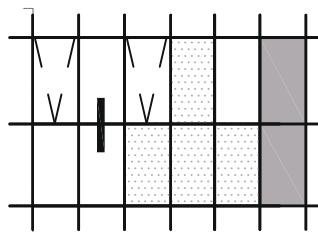
* 16mm ÖZEL SICAK
KENAR ISICAM ÇITASI
16mm SPECIAL WARM
EDGE SPACER

► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
SİSTEM ALUMINIUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

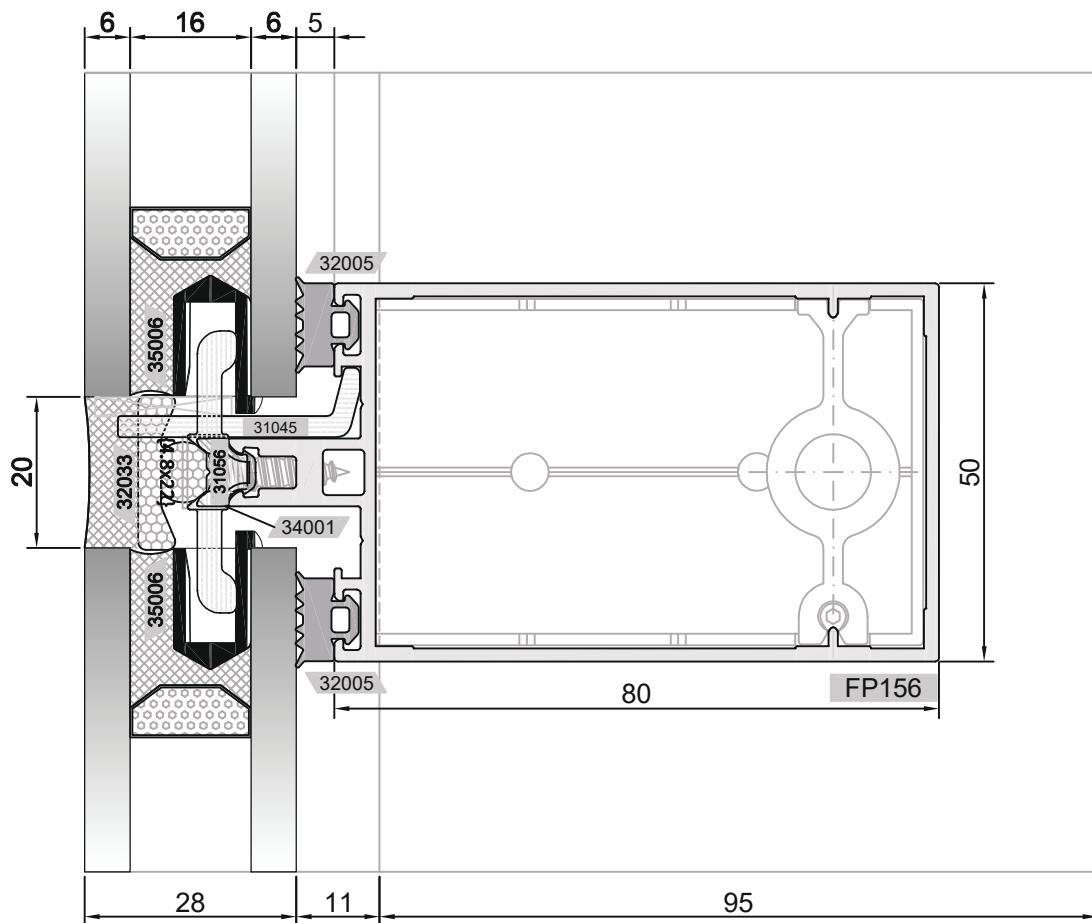


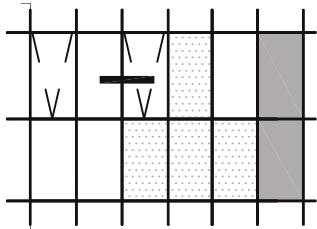
DÜŞEY DETAYI
VERTICAL DETAIL





YATAY DETAYI
HORIZONTAL DETAIL

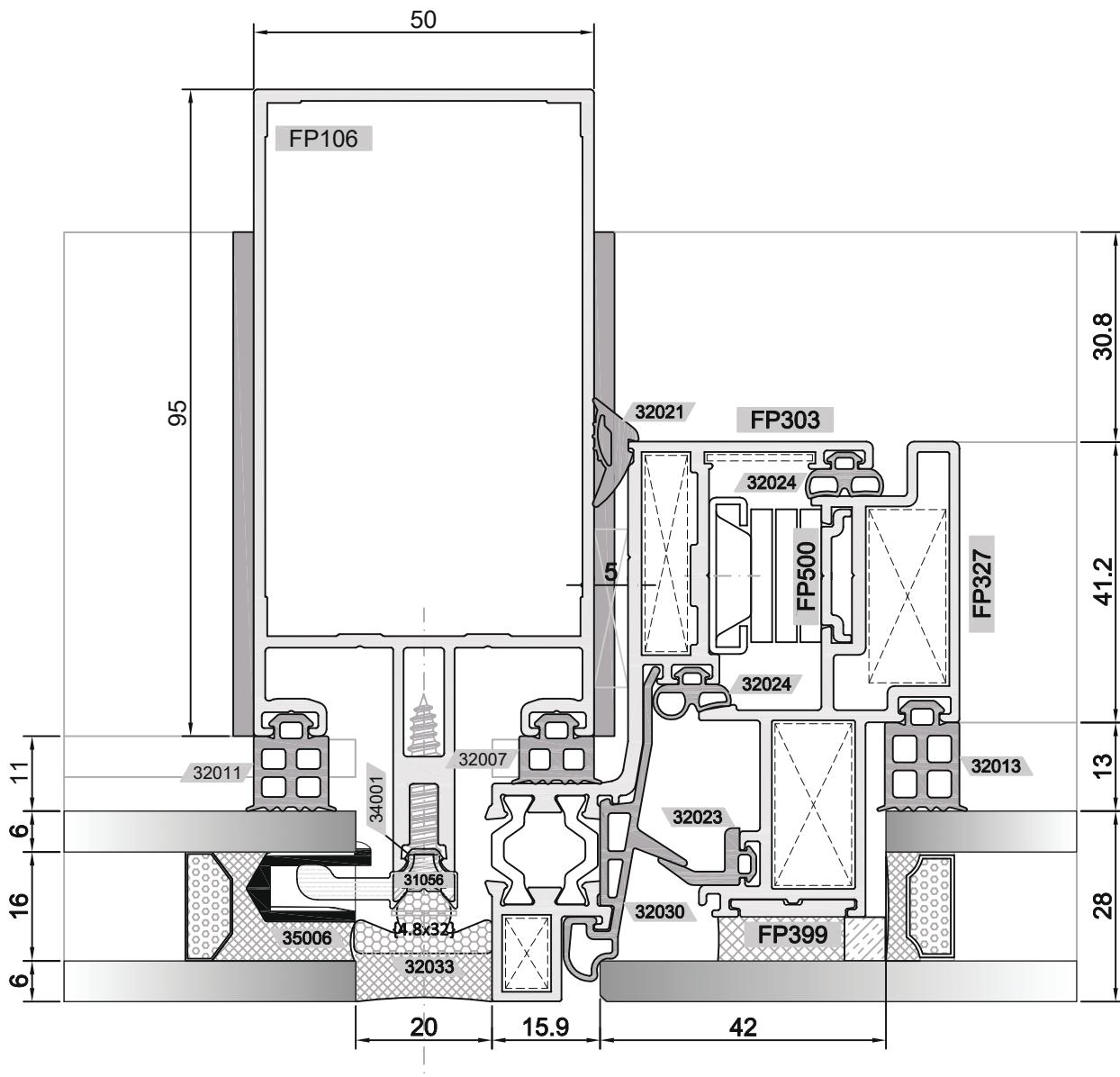


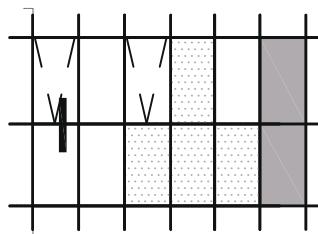


DÜŞEY DETAYI VERTICAL DETAIL

ALTERNATİF 1: YALITIMSIZ KANAT DETAYI

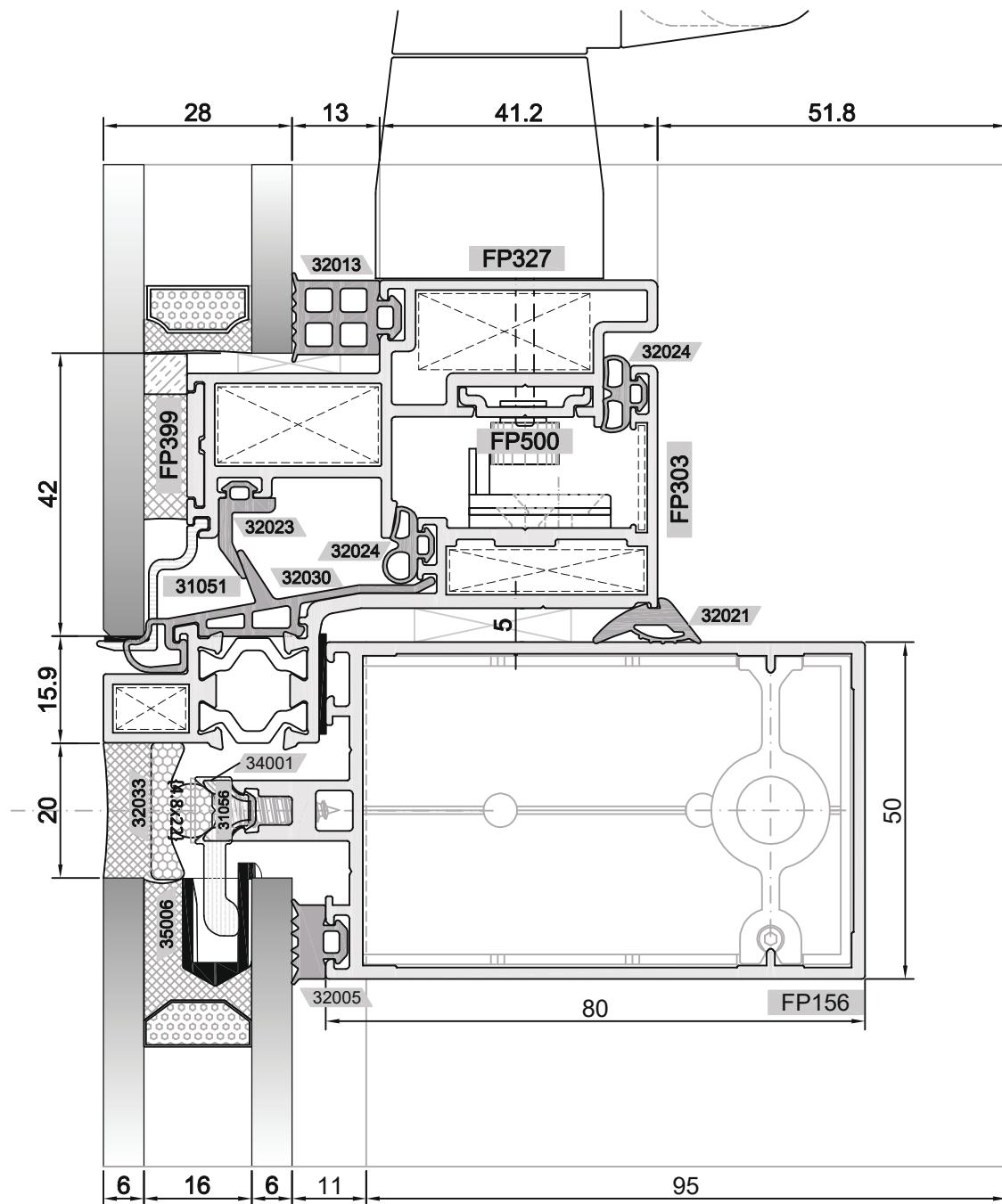
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

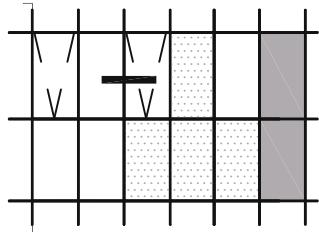




YATAY DETAYI
HORIZONTAL DETAIL

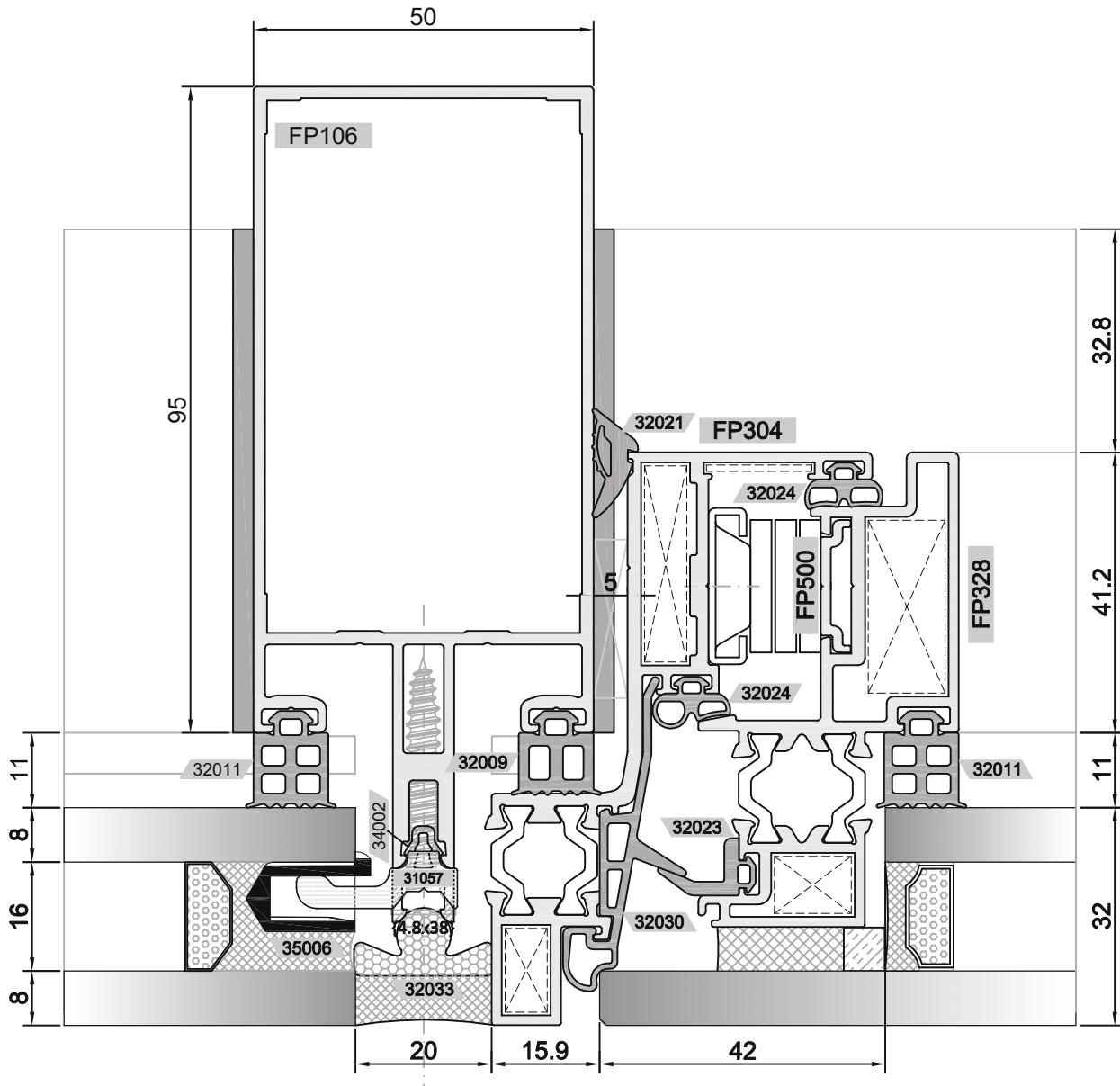
ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

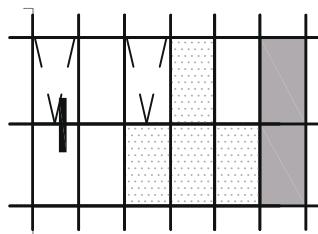




ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

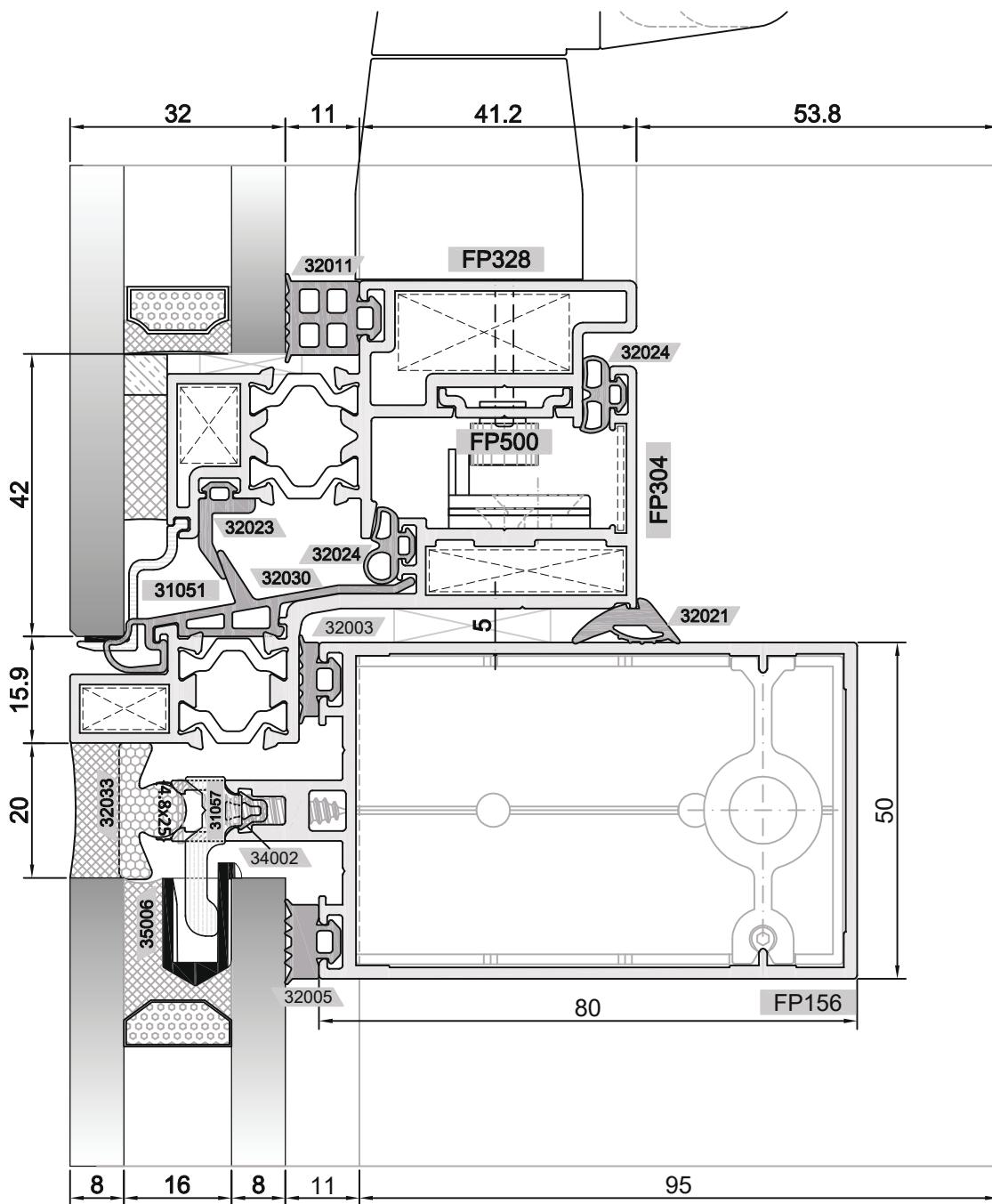
DÜŞEY DETAYI
VERTICAL DETAIL

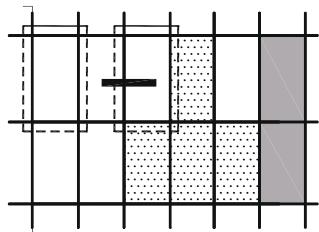




YATAY DETAYI
HORIZONTAL DETAIL

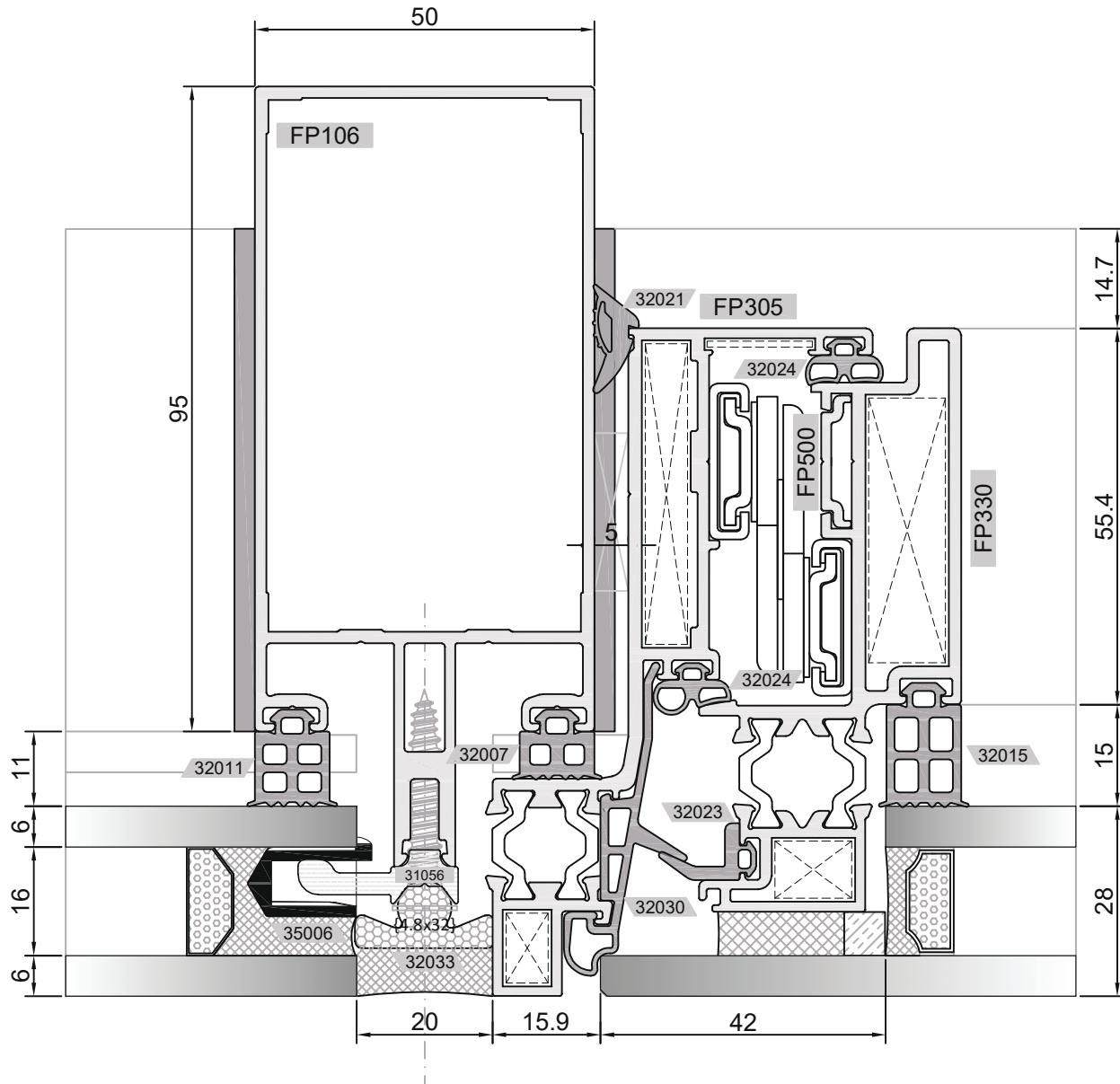
ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

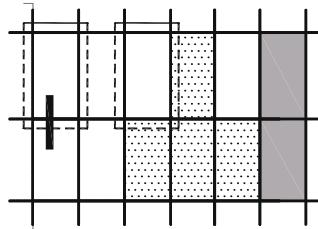




ALTERNATİF 1: YALITIMLI PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 1 : PARALEL OPENING INSULATED VENT DETAIL

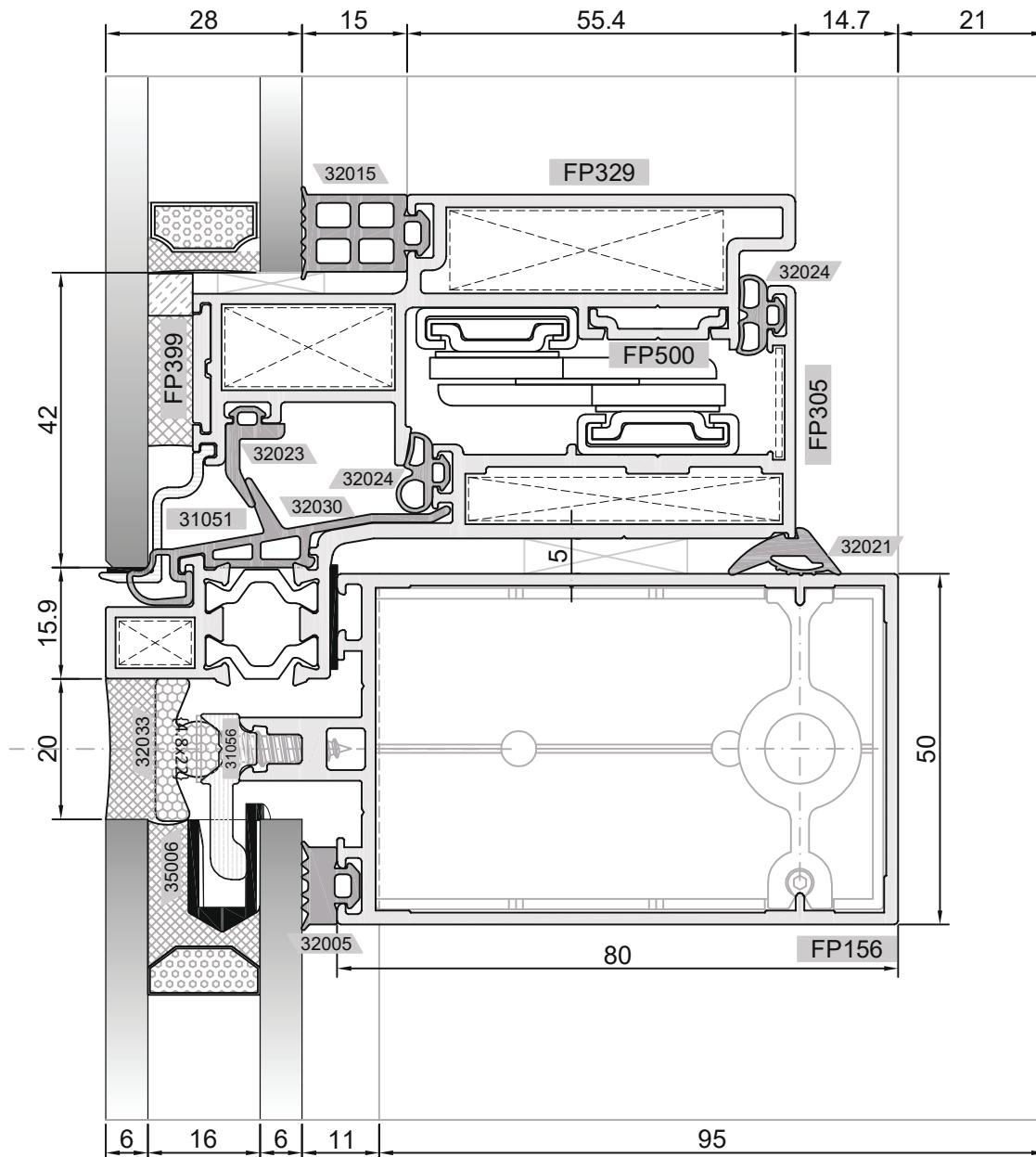
DÜŞEY DETAYI
VERTICAL DETAIL

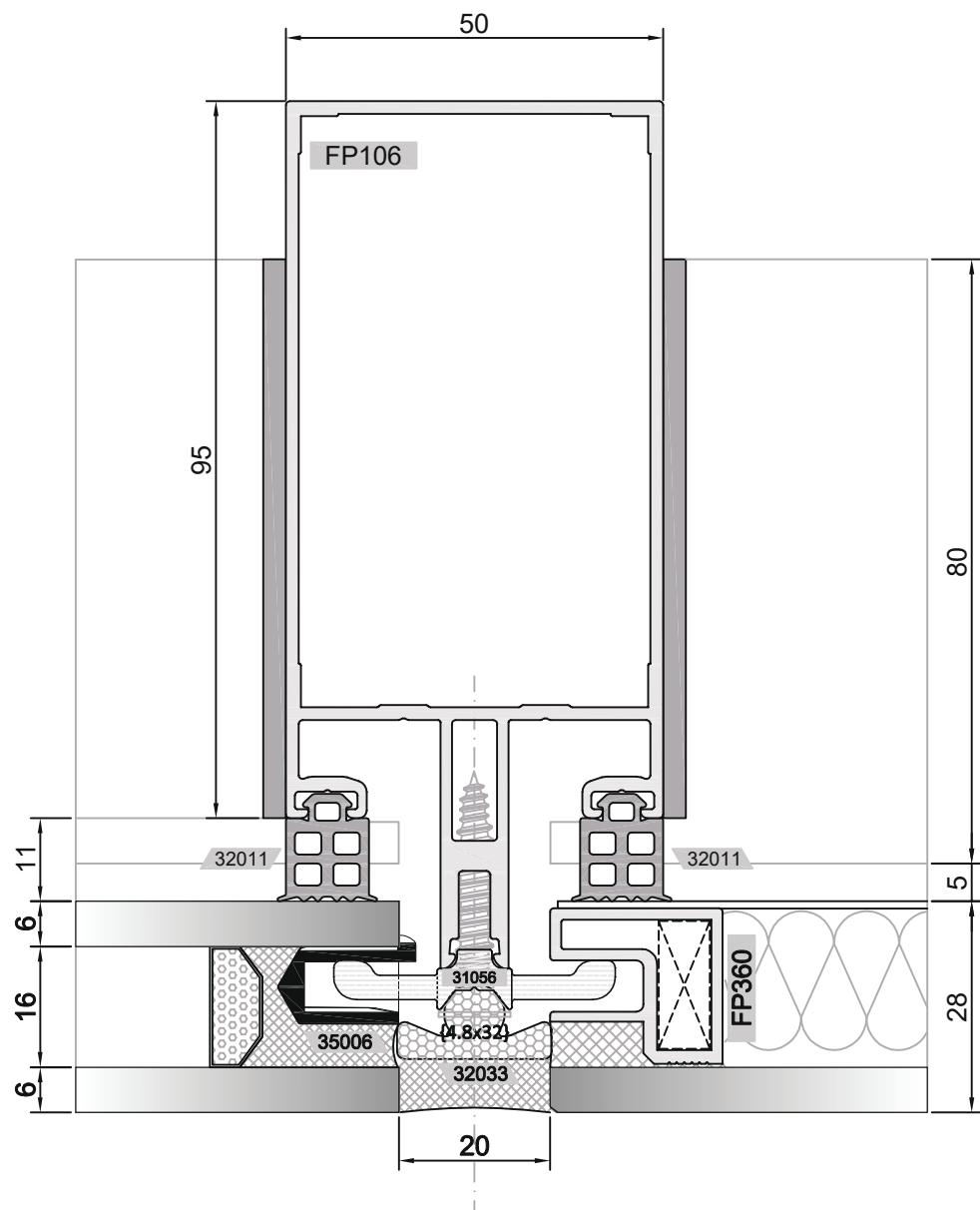
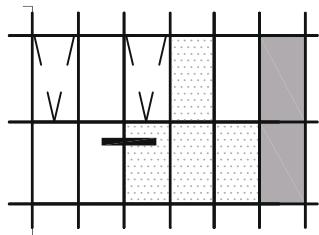


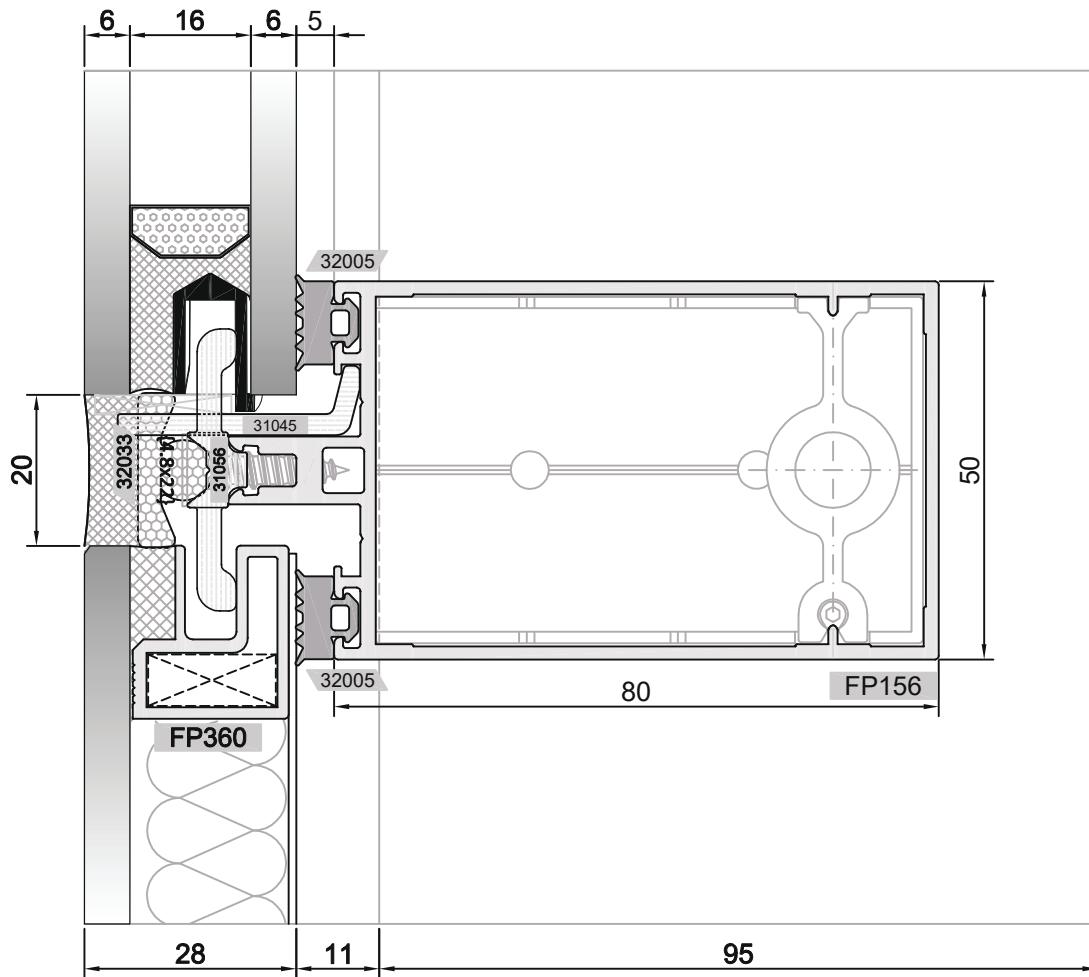
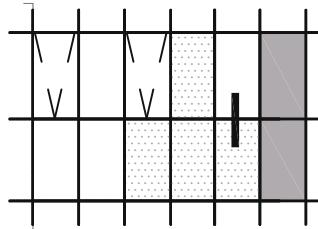


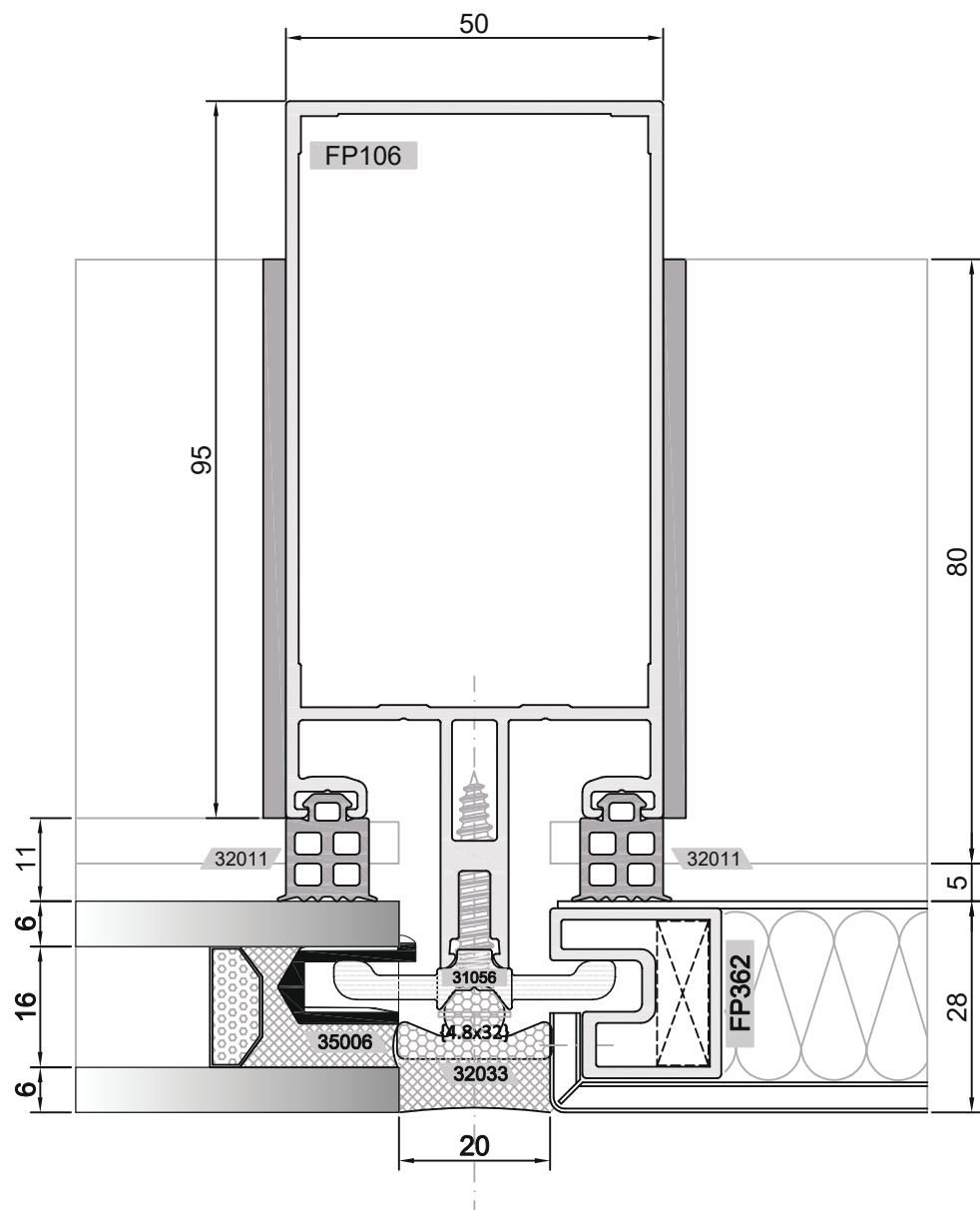
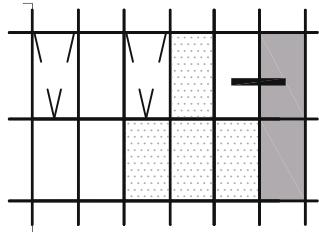
ALTERNATİF 2: YALITIMSIZ PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 2 : PARALLEL OPENING UNINSULATED VENT DETAIL

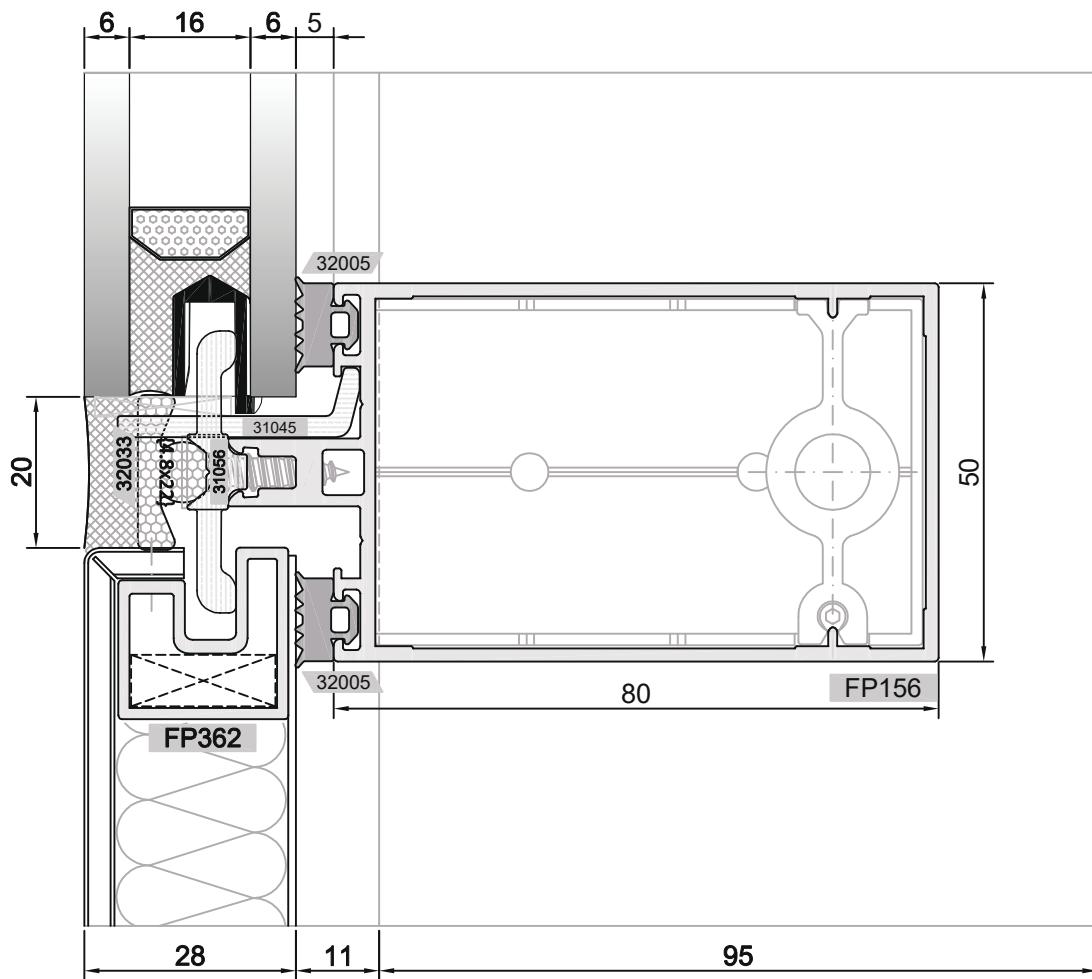
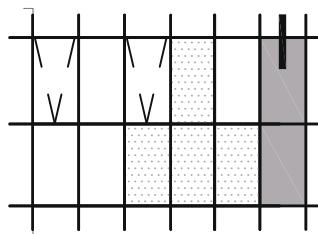
YATAY DETAYI
HORIZONTAL DETAIL

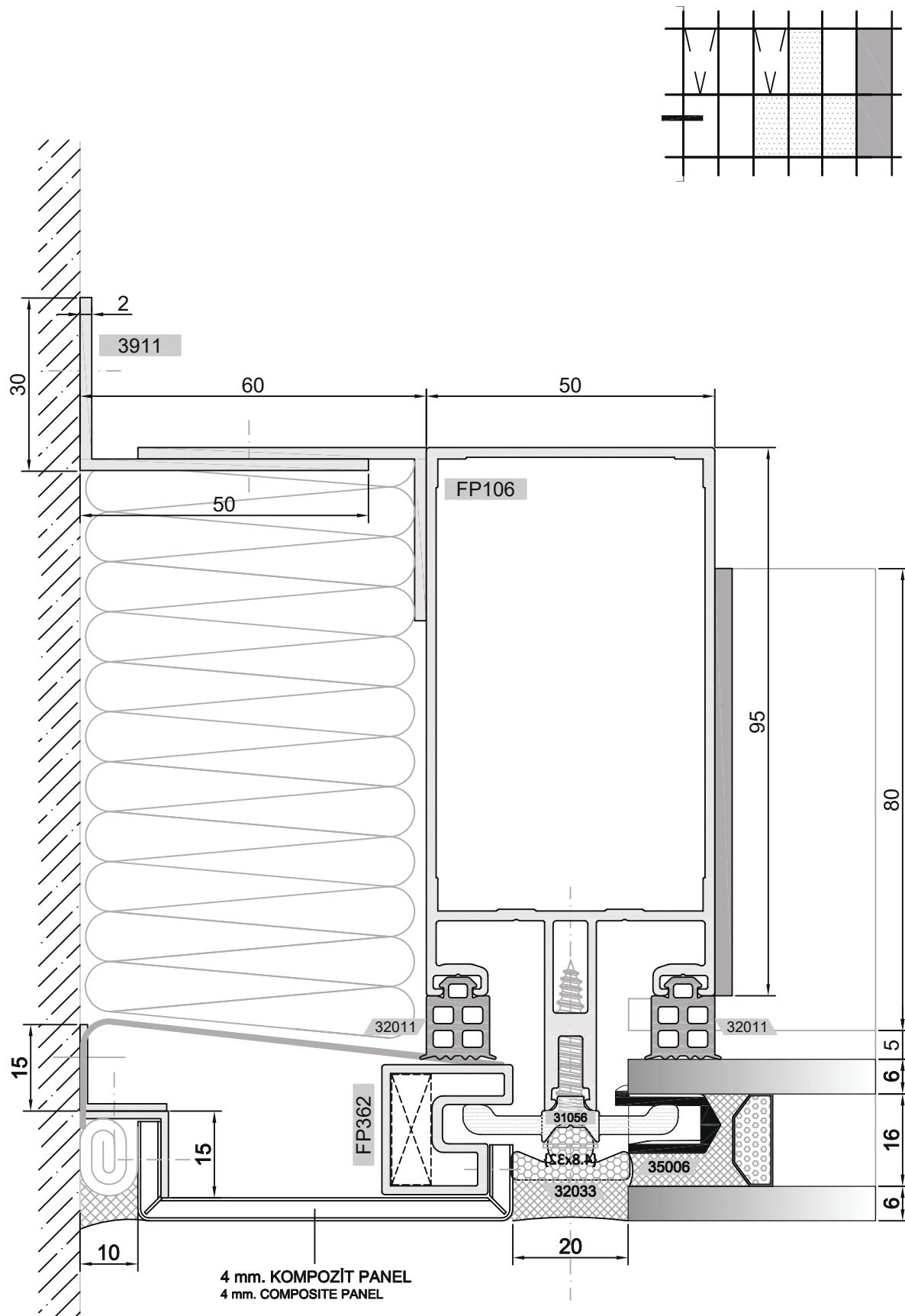


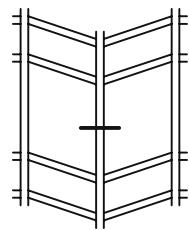




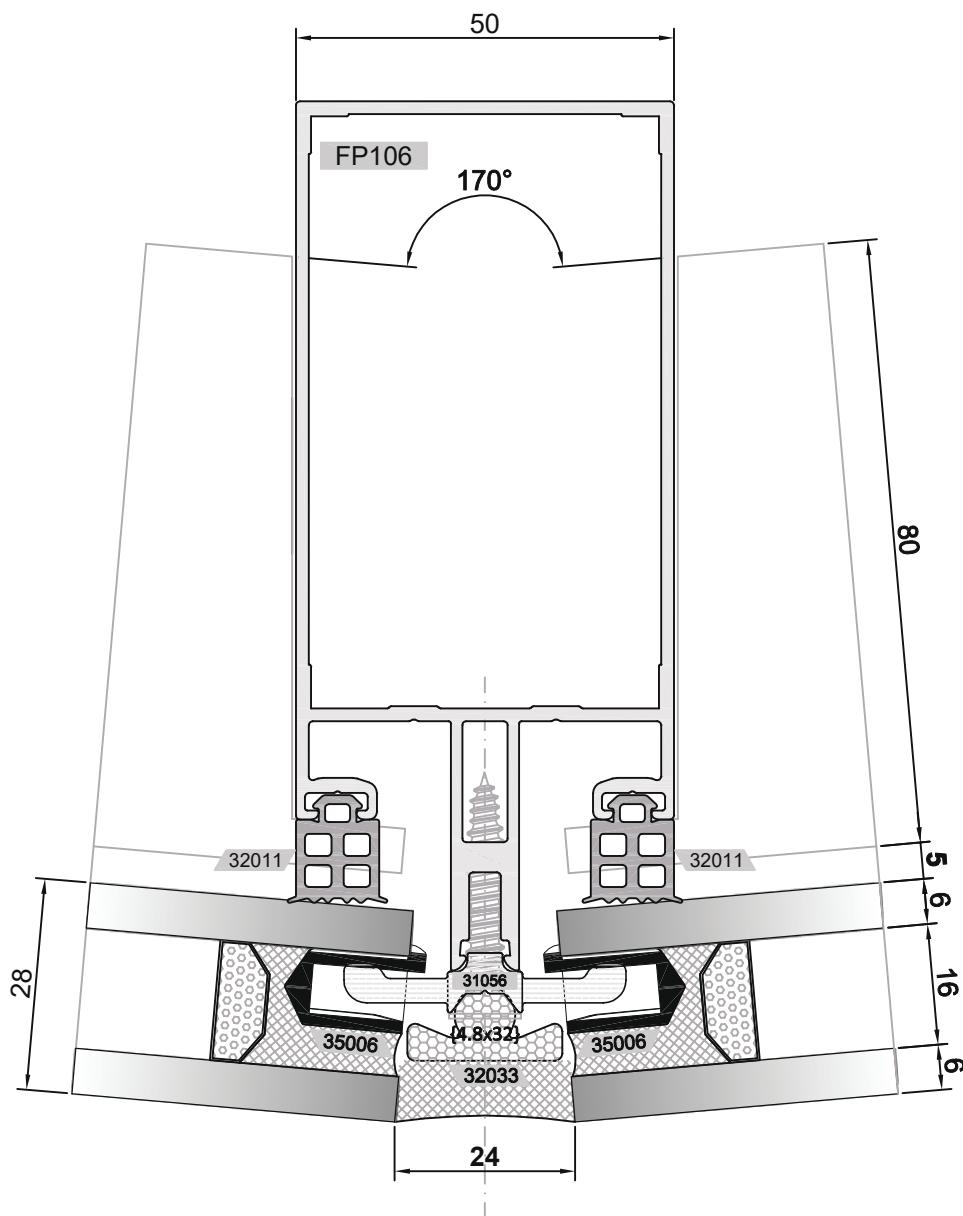


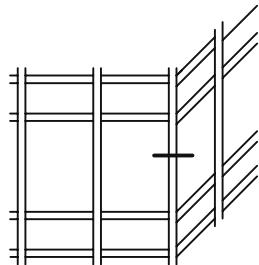






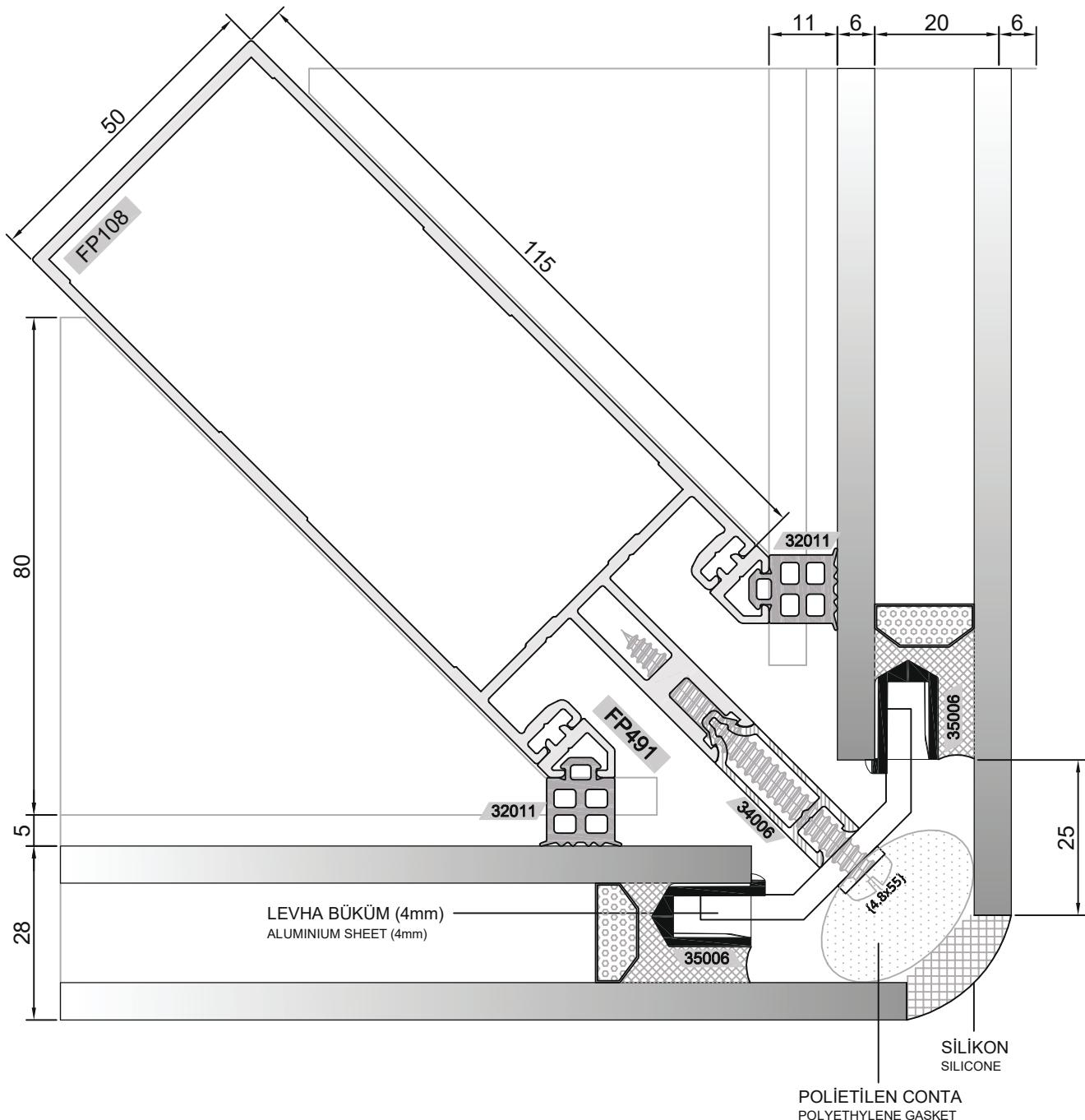
0° - 10°

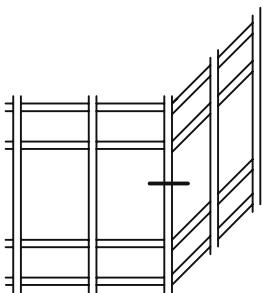




90°

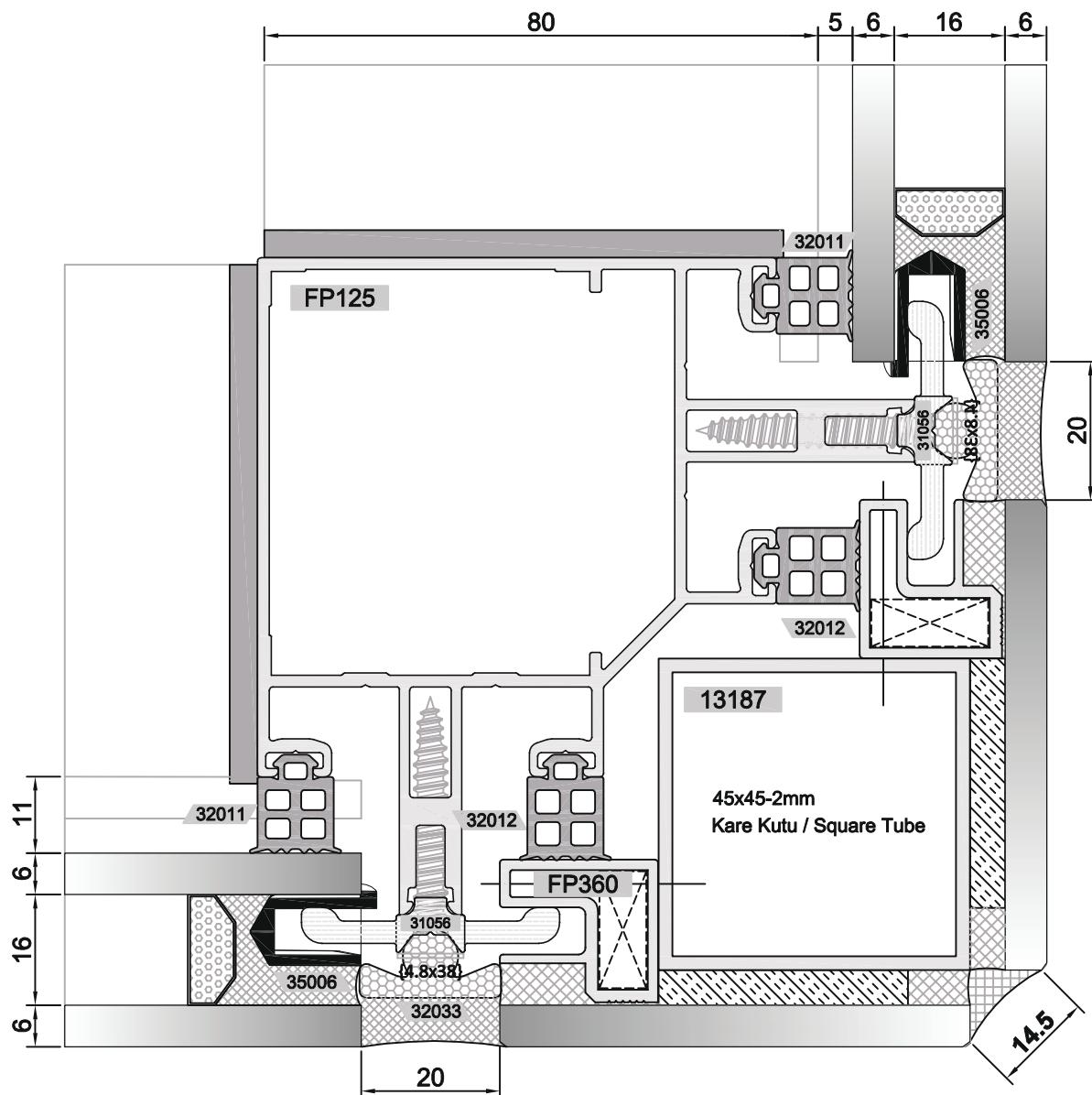
ALTERNATİF 1: TEK DİKMELİ KÖŞE DETAYI
ALTERNATIVE 1 : CORNER DETAIL WITH SINGLE MULLION

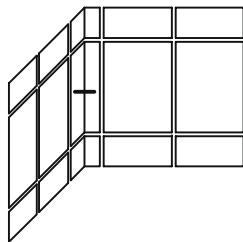




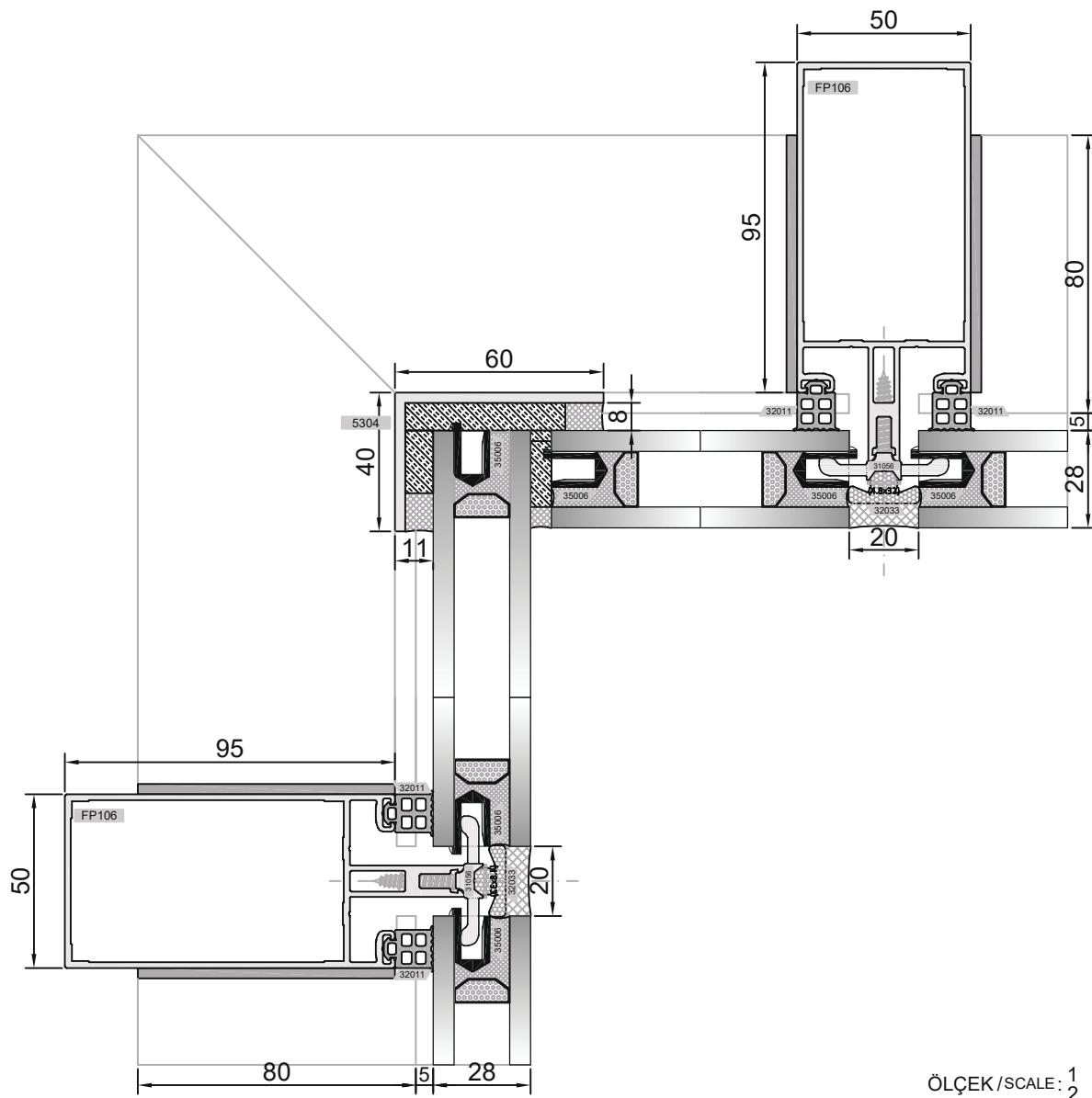
90°

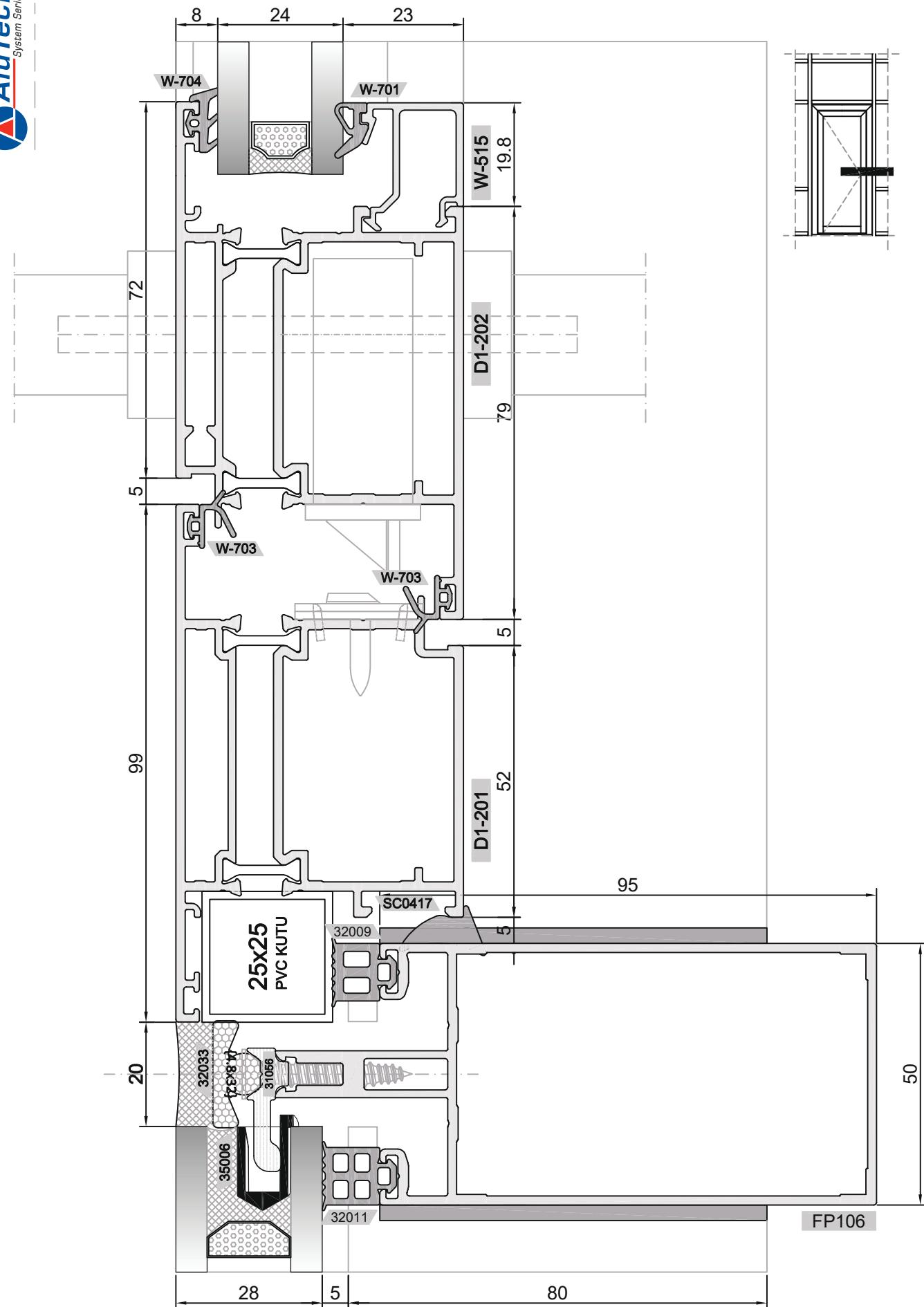
ALTERNATİF 2: ÇİFT DİKMELİ KÖŞE DETAYI
ALTERNATIVE 2 : CORNER DETAIL WITH DOUBLE MULLION





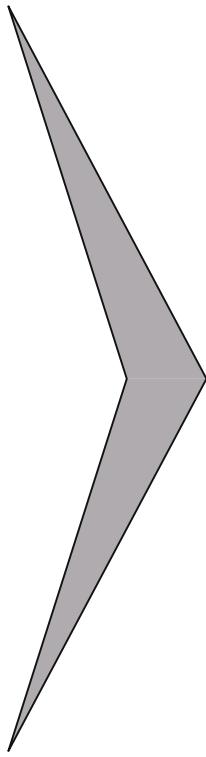
90° İÇ AÇILI CAM CEPHE DÜŞEY KESİT DETAYI FOUR SIDE WITH 90° INTERNAL ANGLE VERTICAL DETAIL





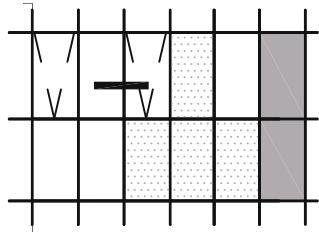
YARI-KAPAKLI CEPHE

SEMI-CAPPED CURTAIN WALL

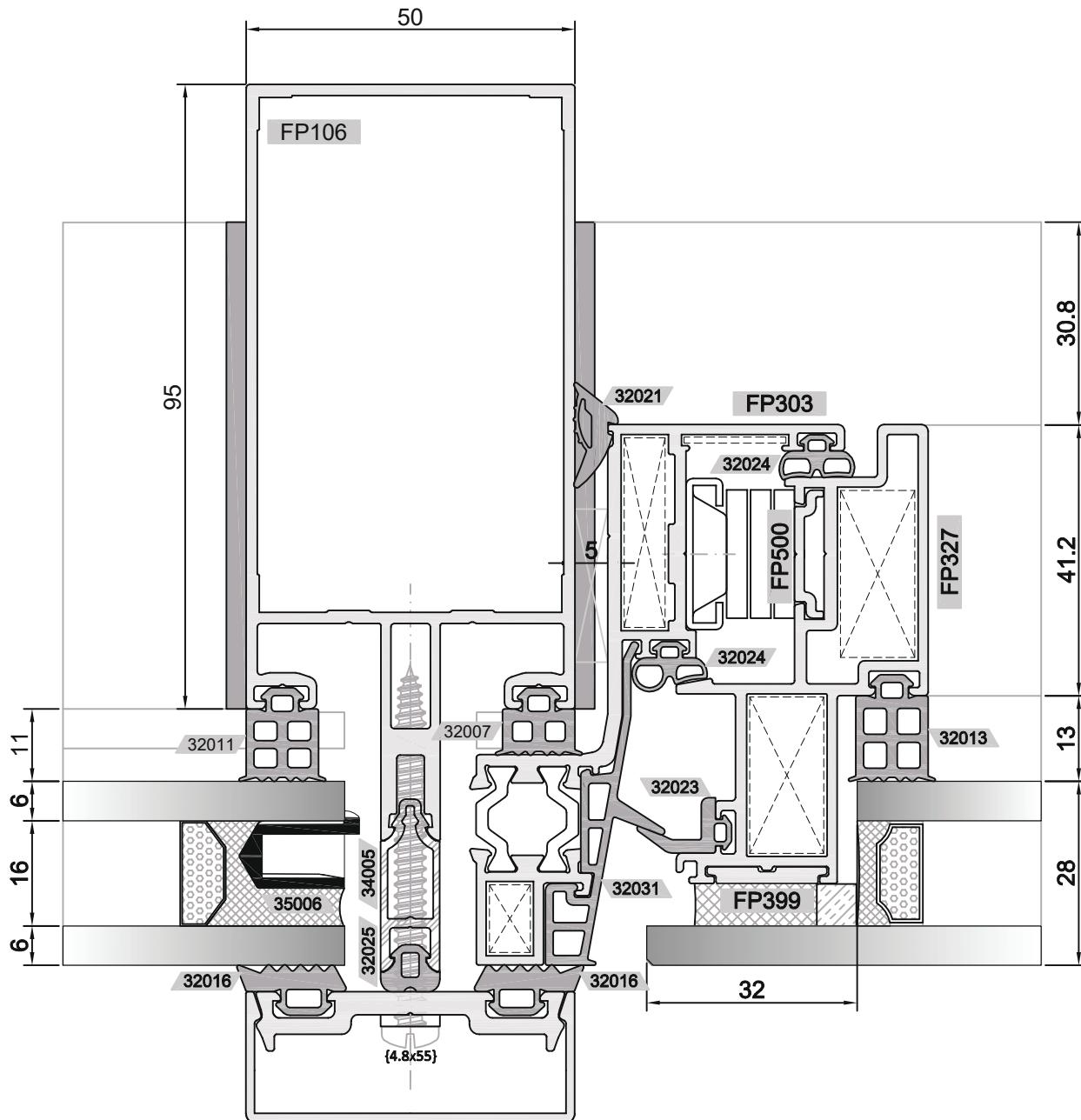


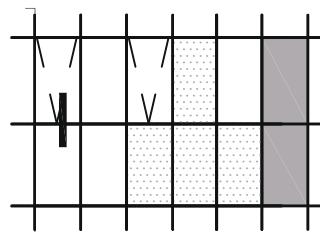
* 16mm ÖZEL SICAK
KENAR ISICAM ÇITASI
16mm SPECIAL WARM
EDGE SPACER

► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
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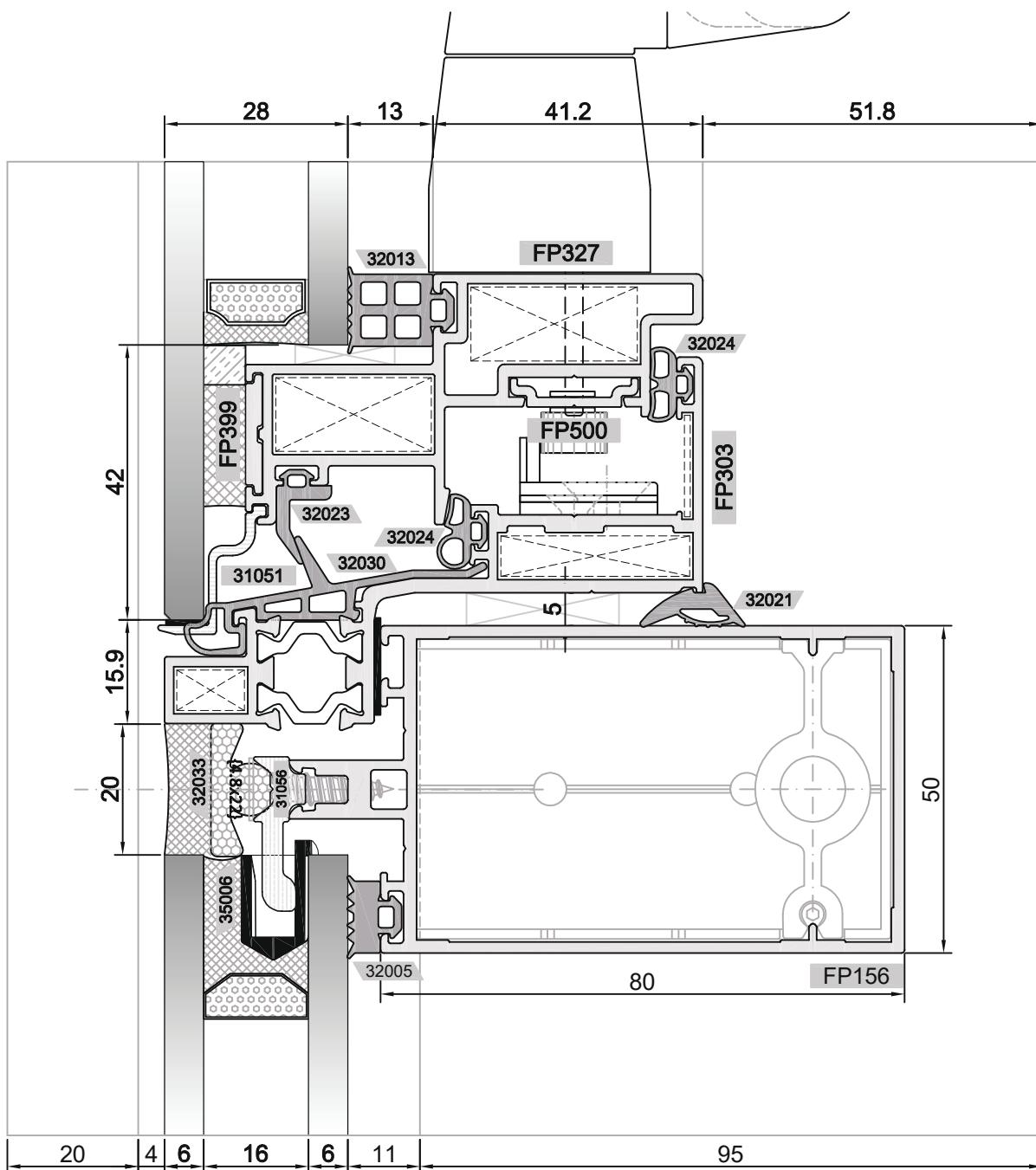


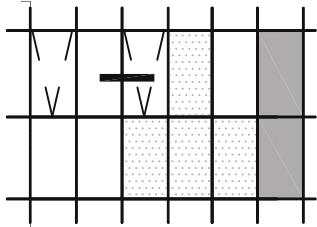
DÜSEY DETAYI
VERTICAL DETAIL





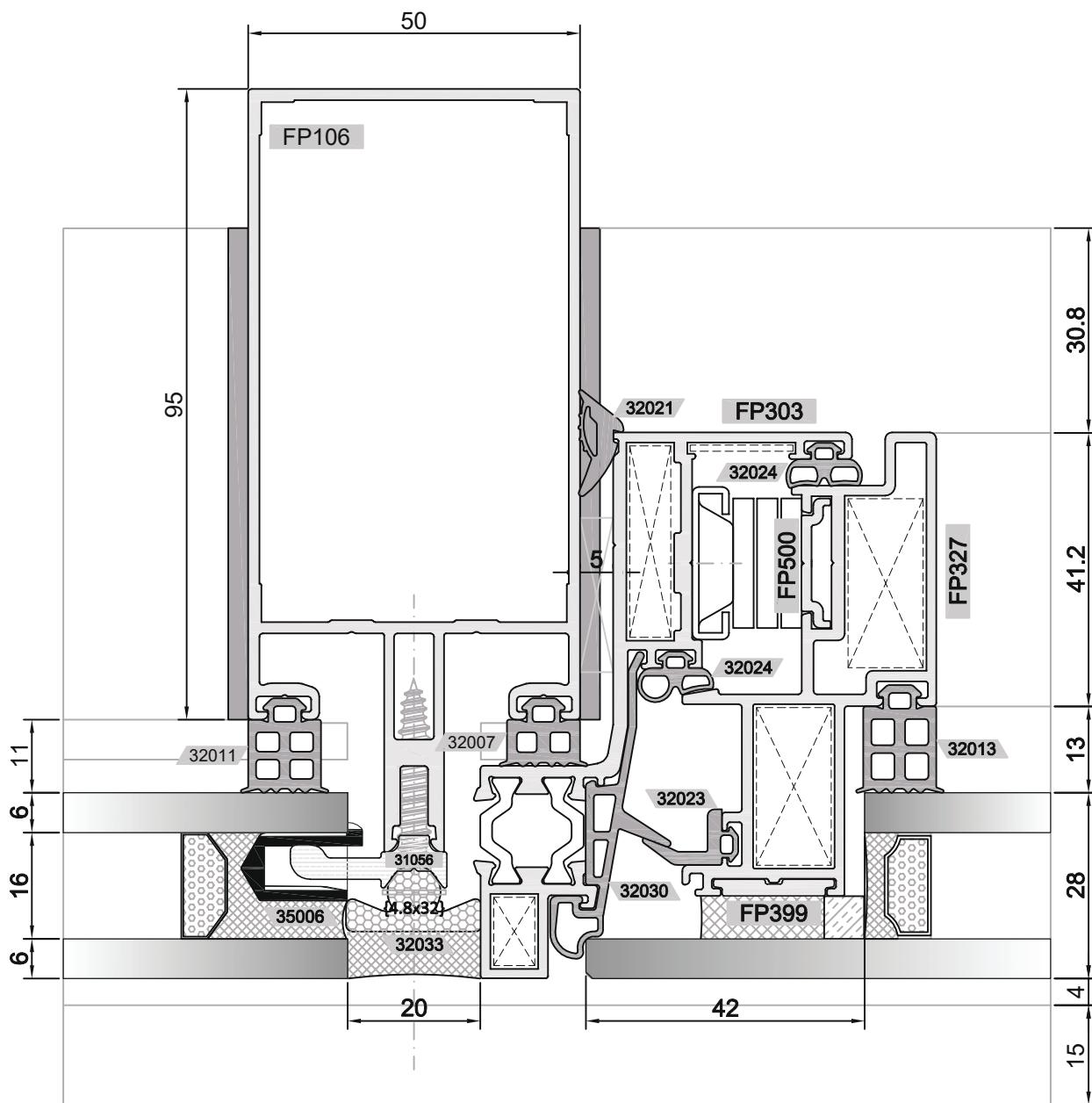
YATAY DETAYI
HORIZONTAL DETAIL

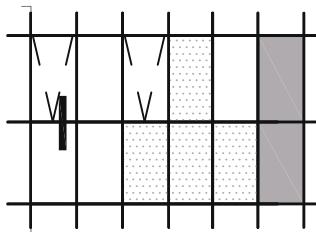




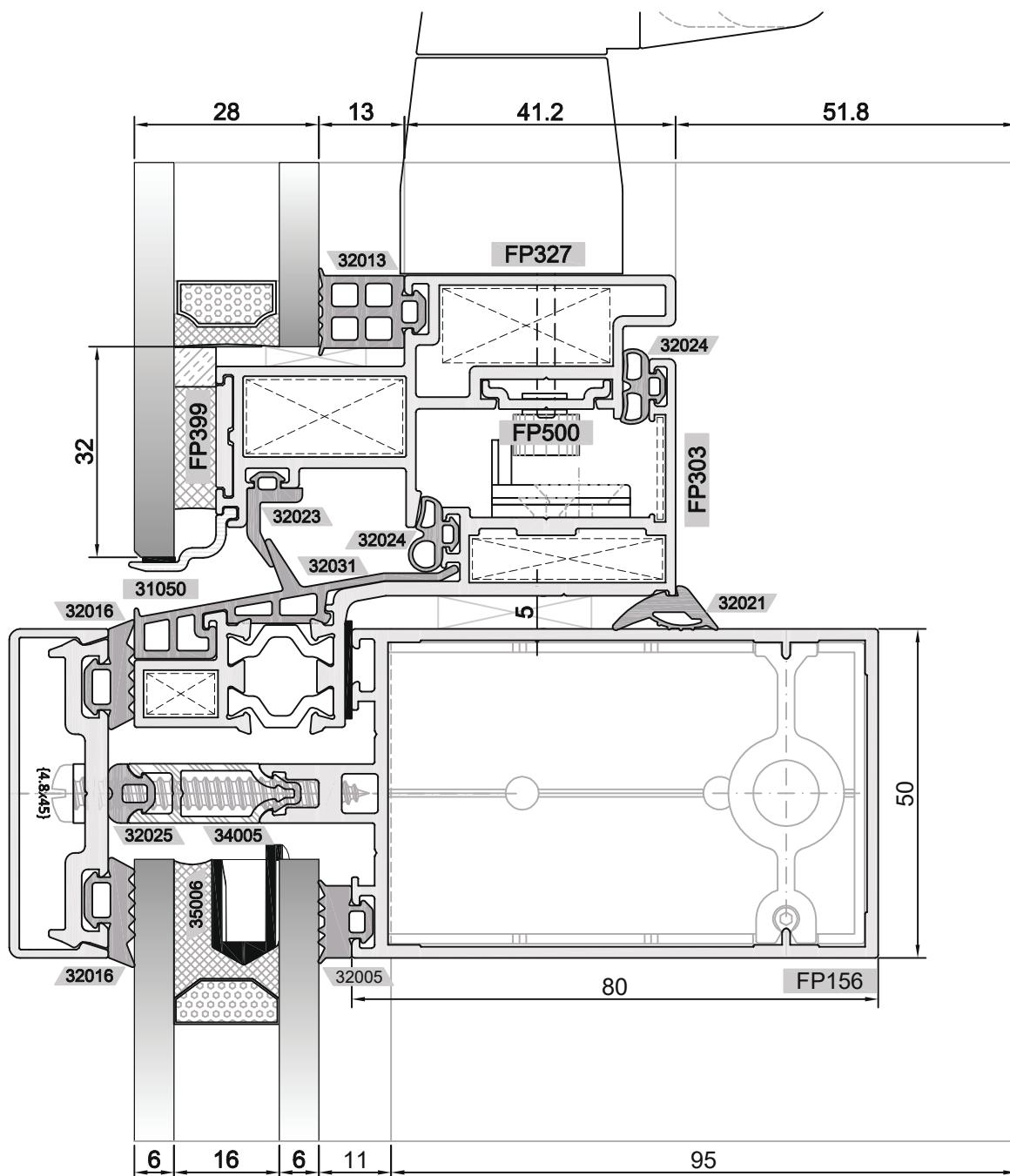
DÜŞEY DETAYI

VERTICAL DETAIL



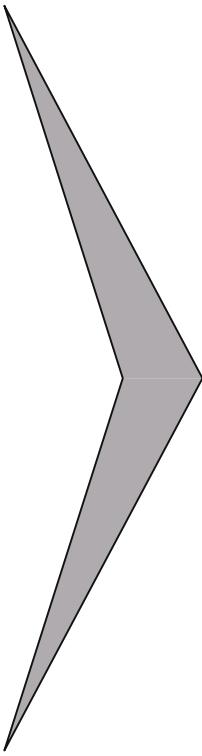


YATAY DETAYI HORIZONTAL DETAIL



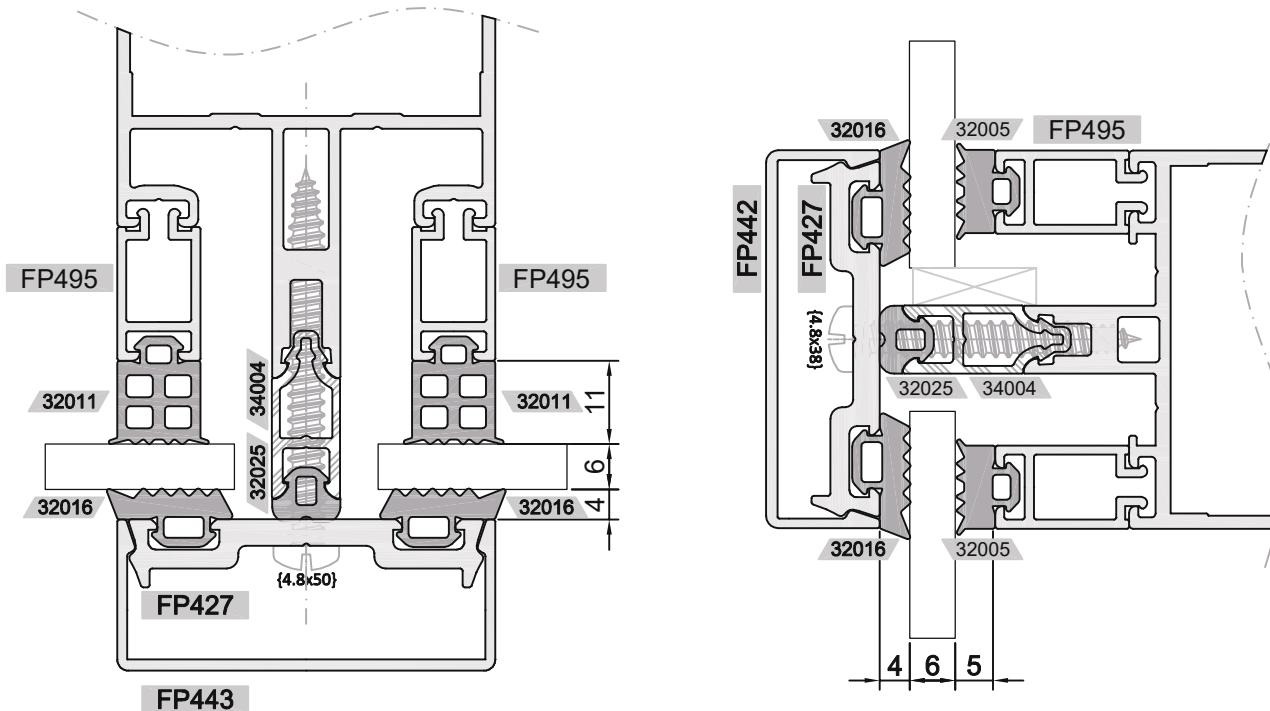
**CAM KALINLIKLARINA GÖRE
KAPAKLI SİSTEM DETAYLARI**

**CAPPED CURTAIN WALL DETAILS
ACCORDING TO THE GLASS
THICKNESSES**

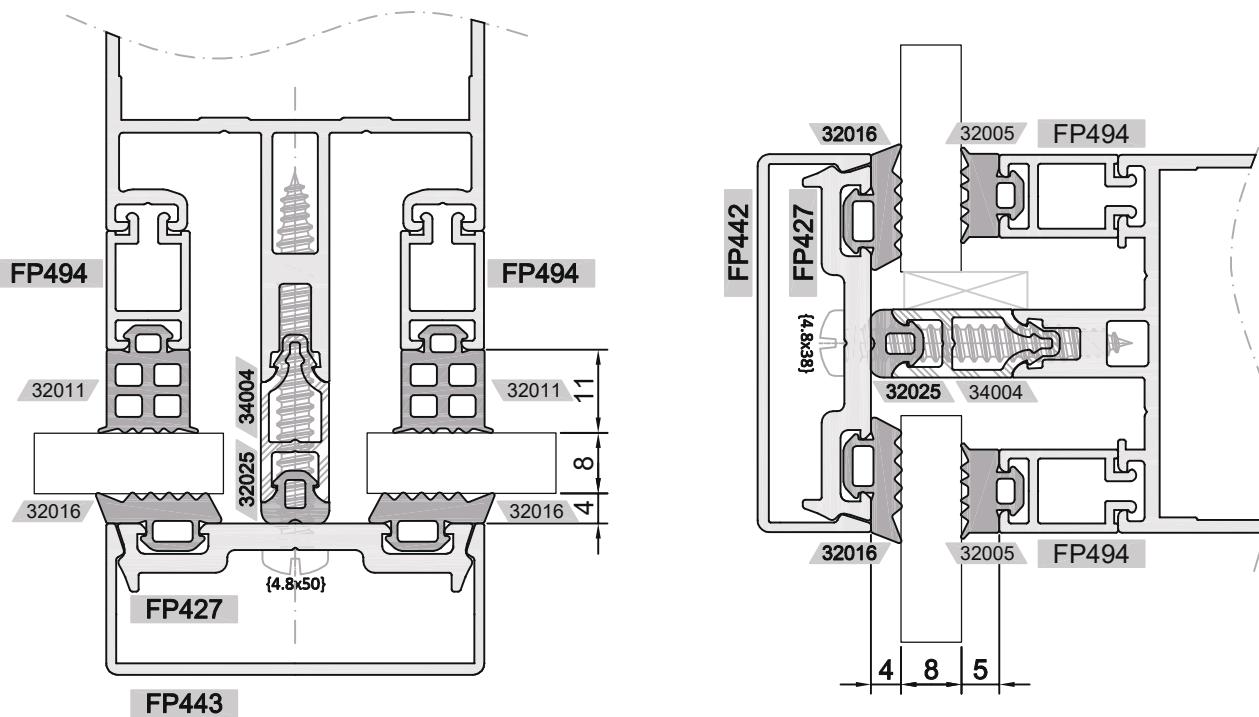


► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
SİSTEM ALUMINIUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

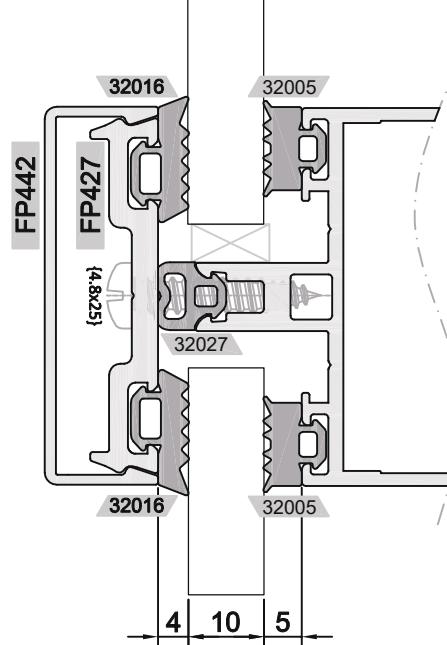
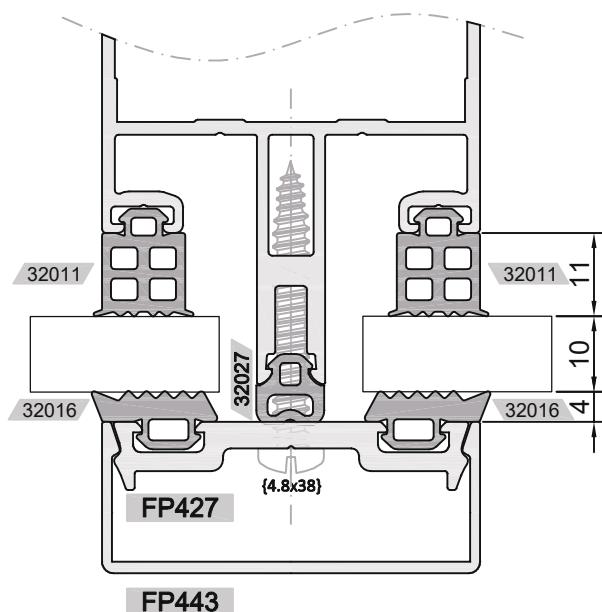
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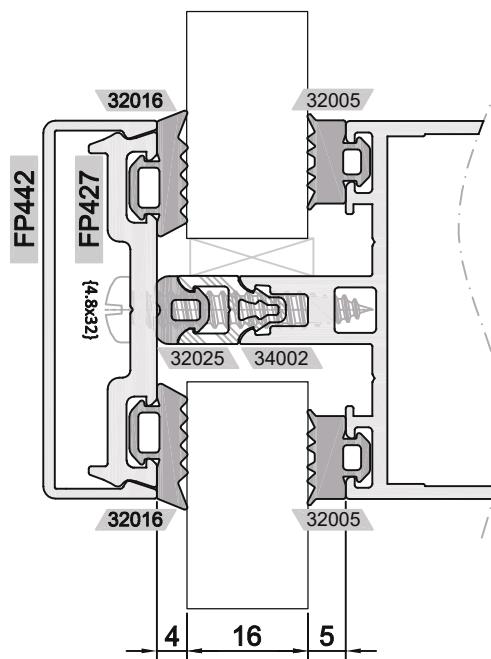
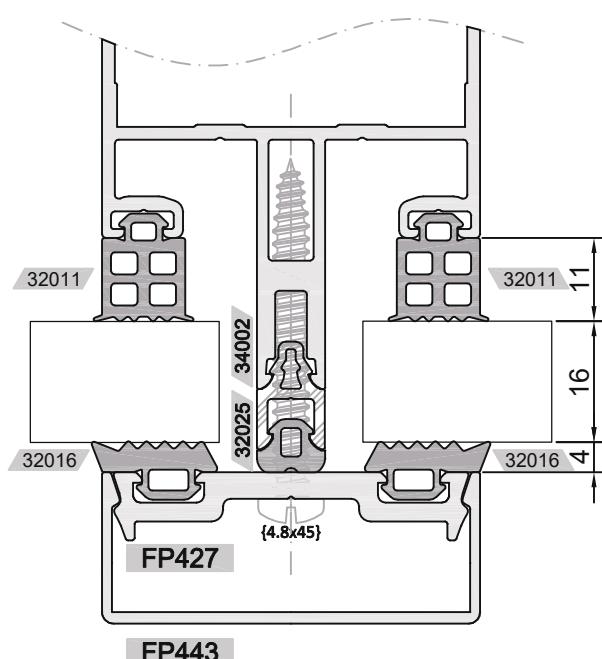
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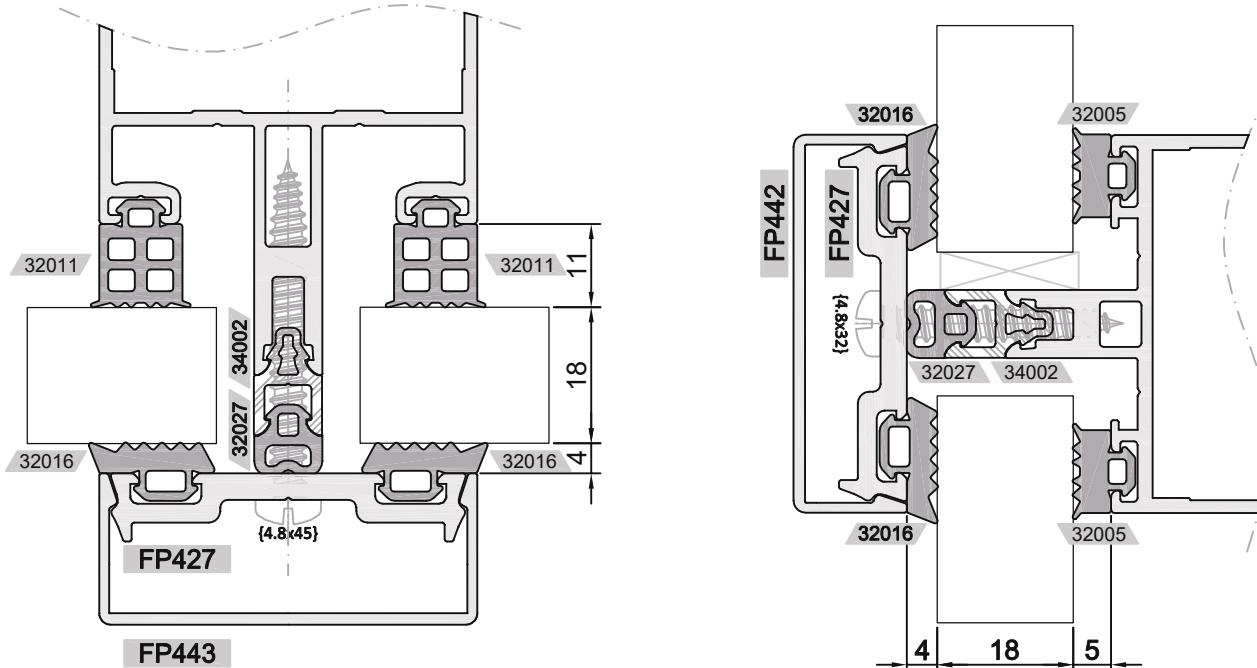
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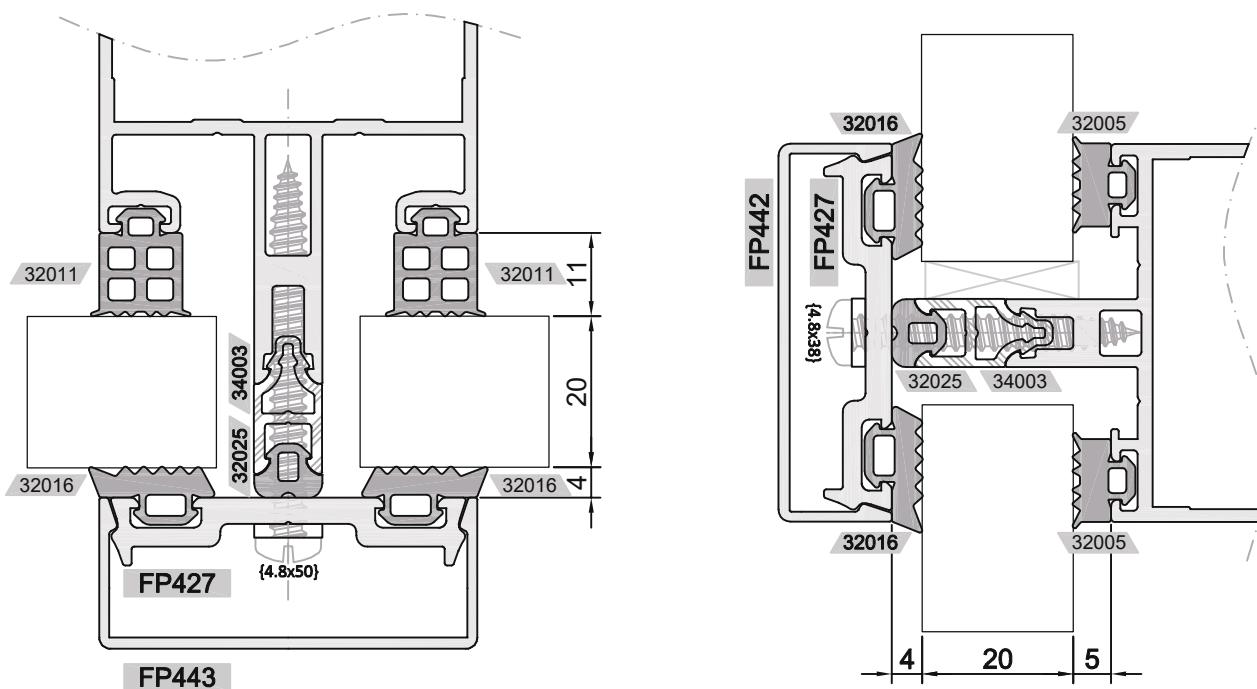
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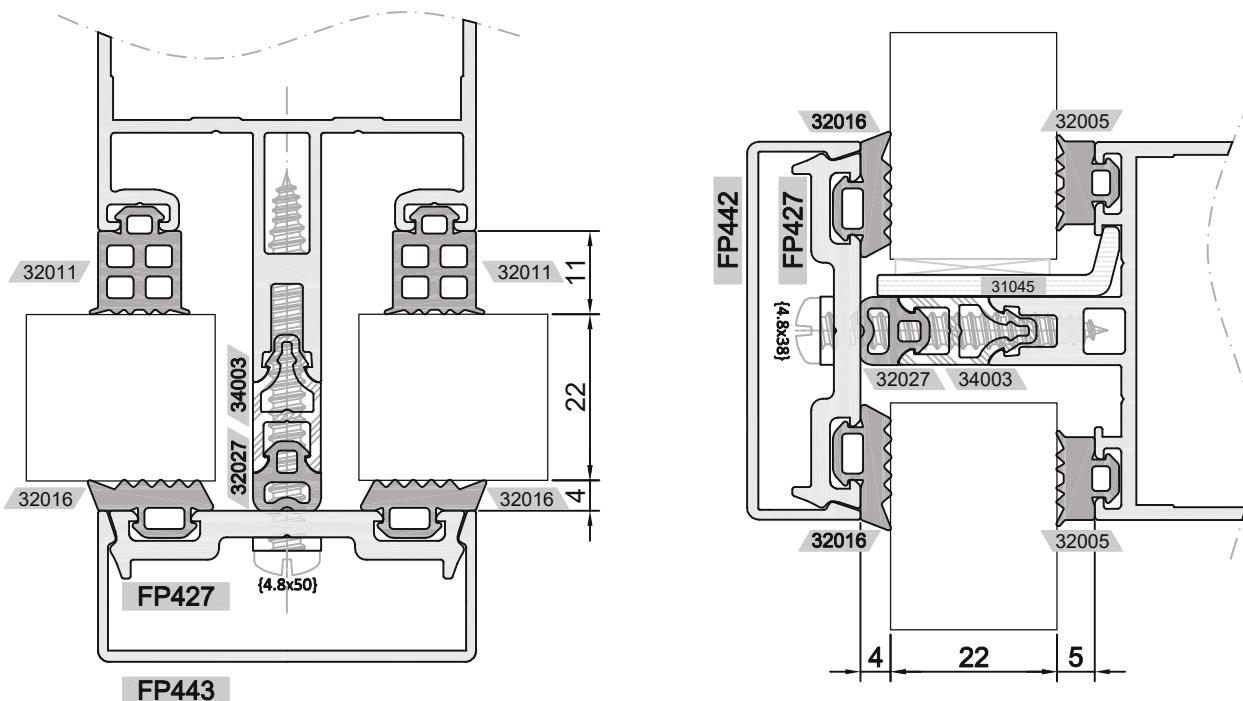
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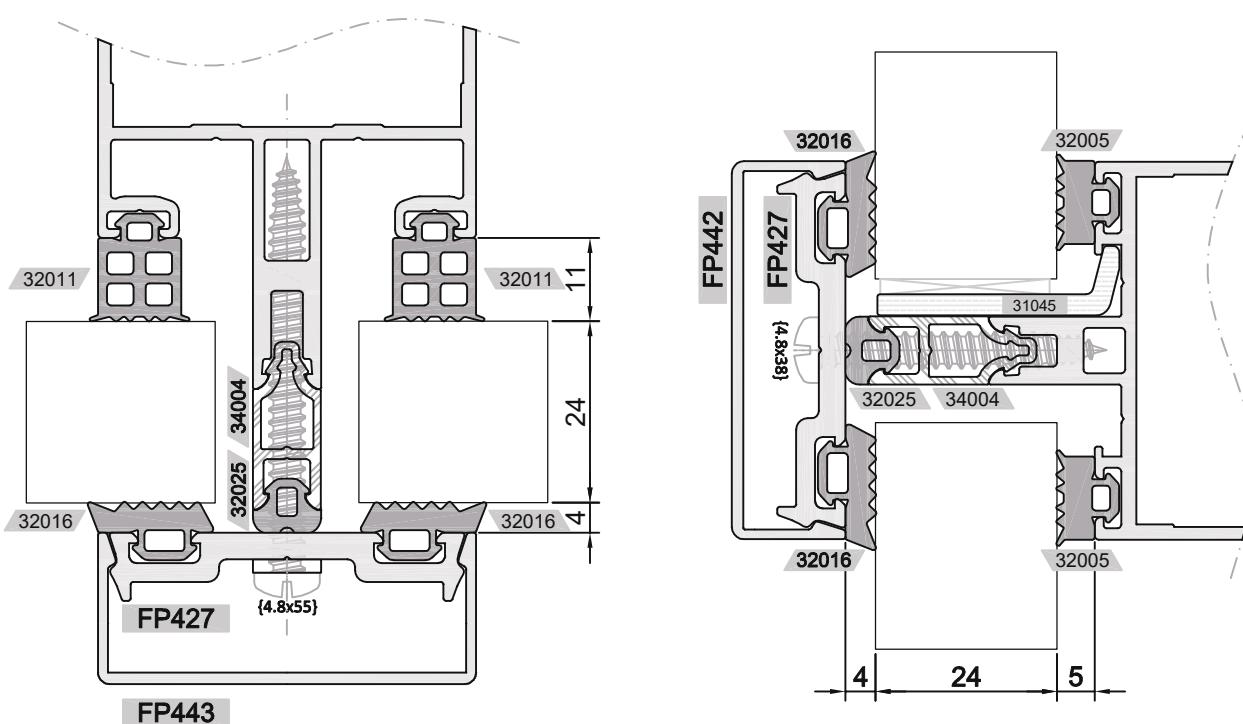
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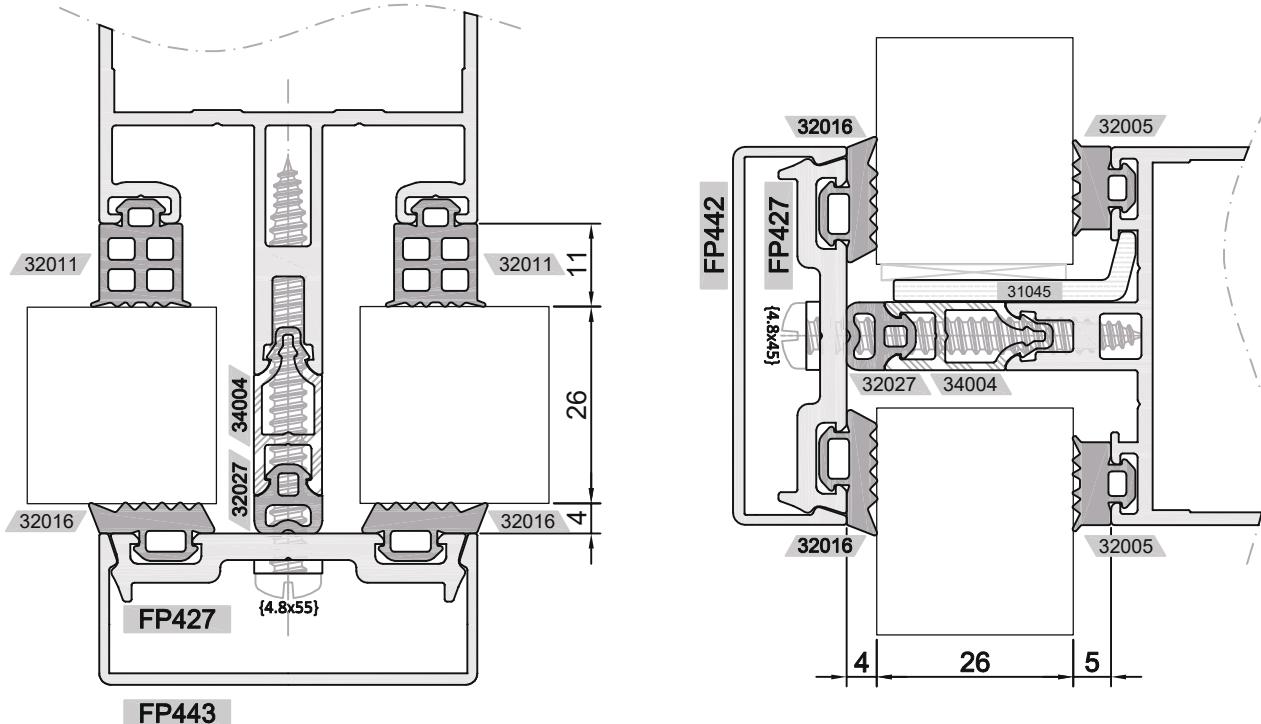
22mm



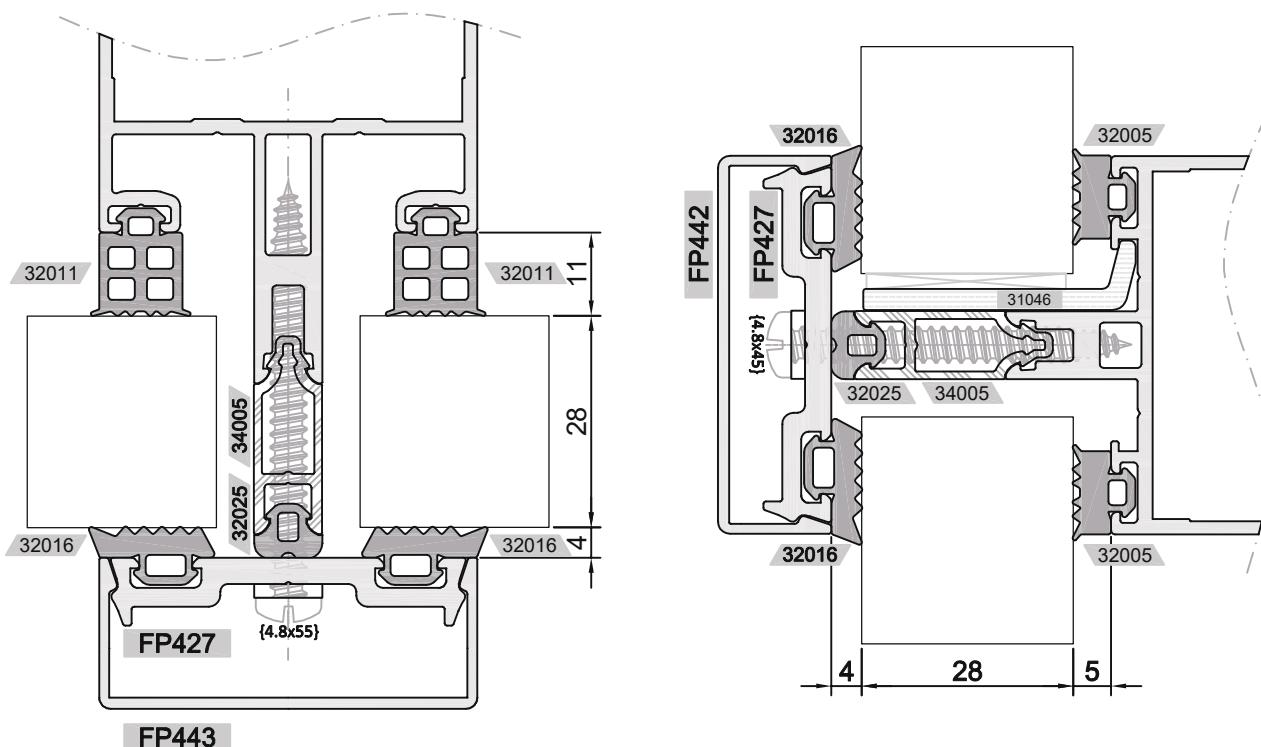
24mm



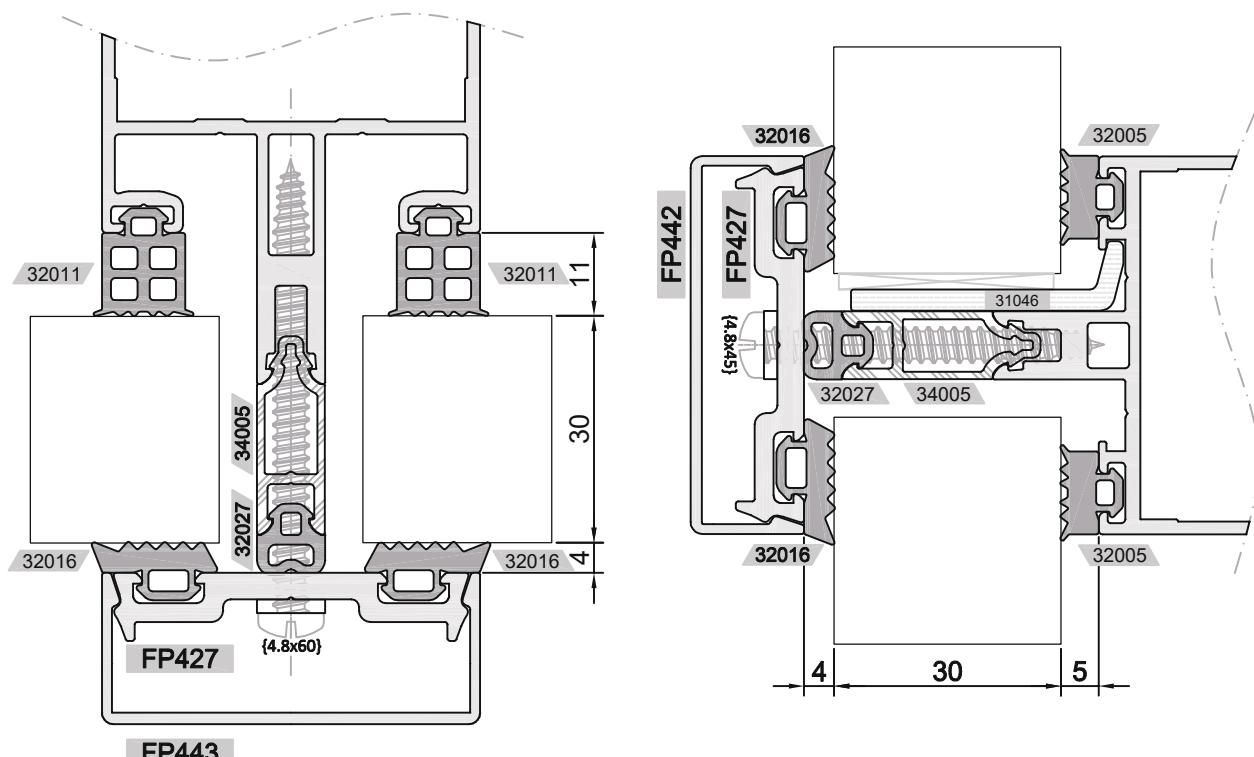
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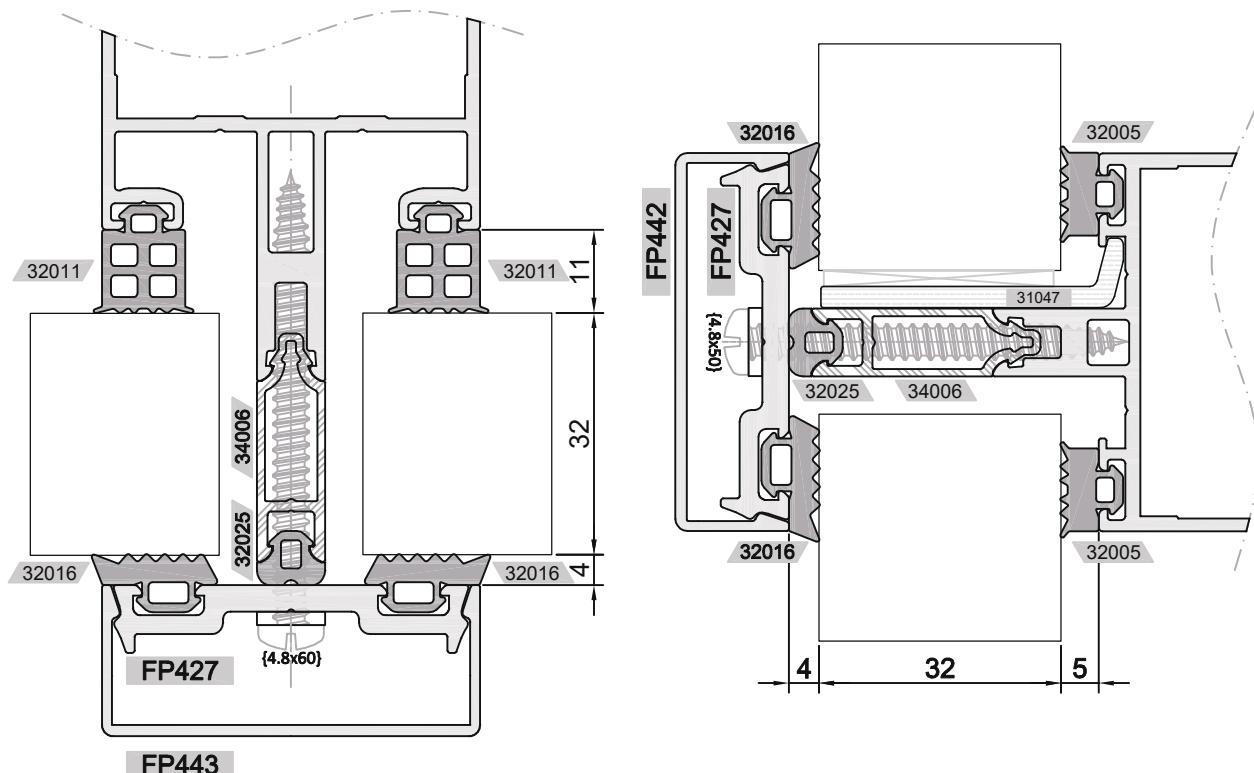
28mm



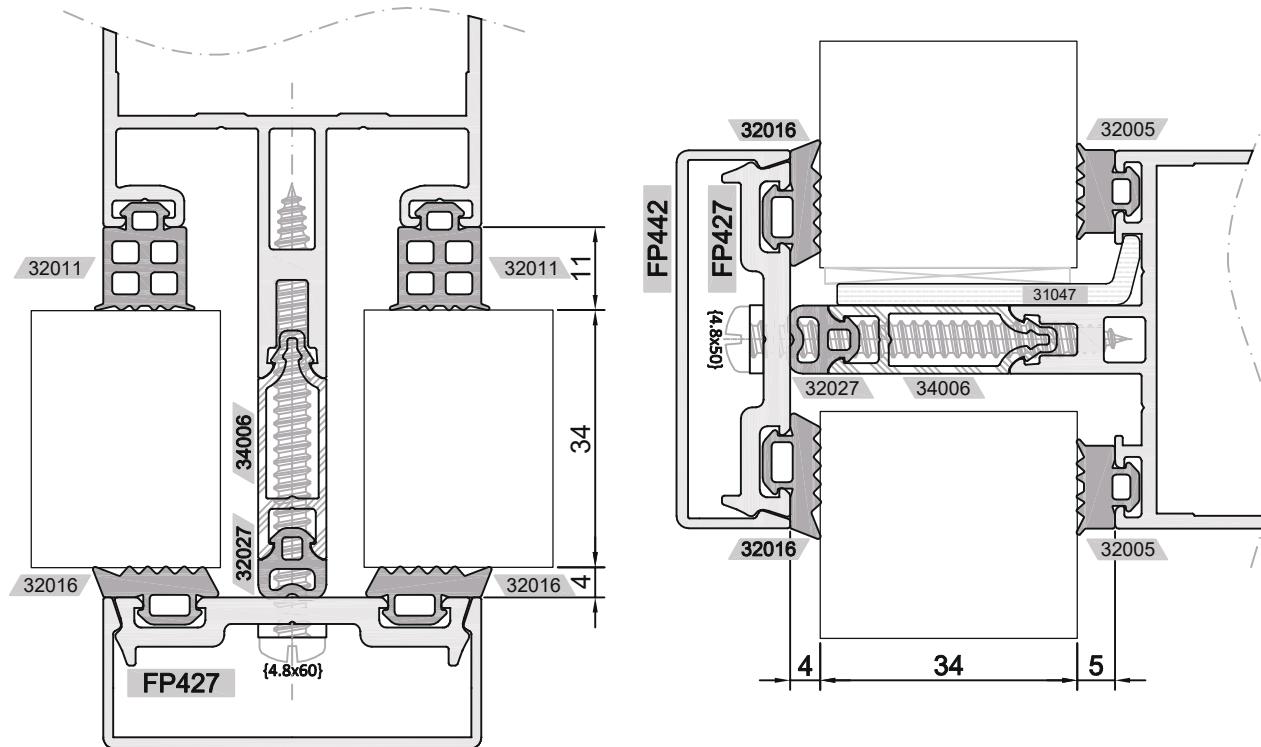
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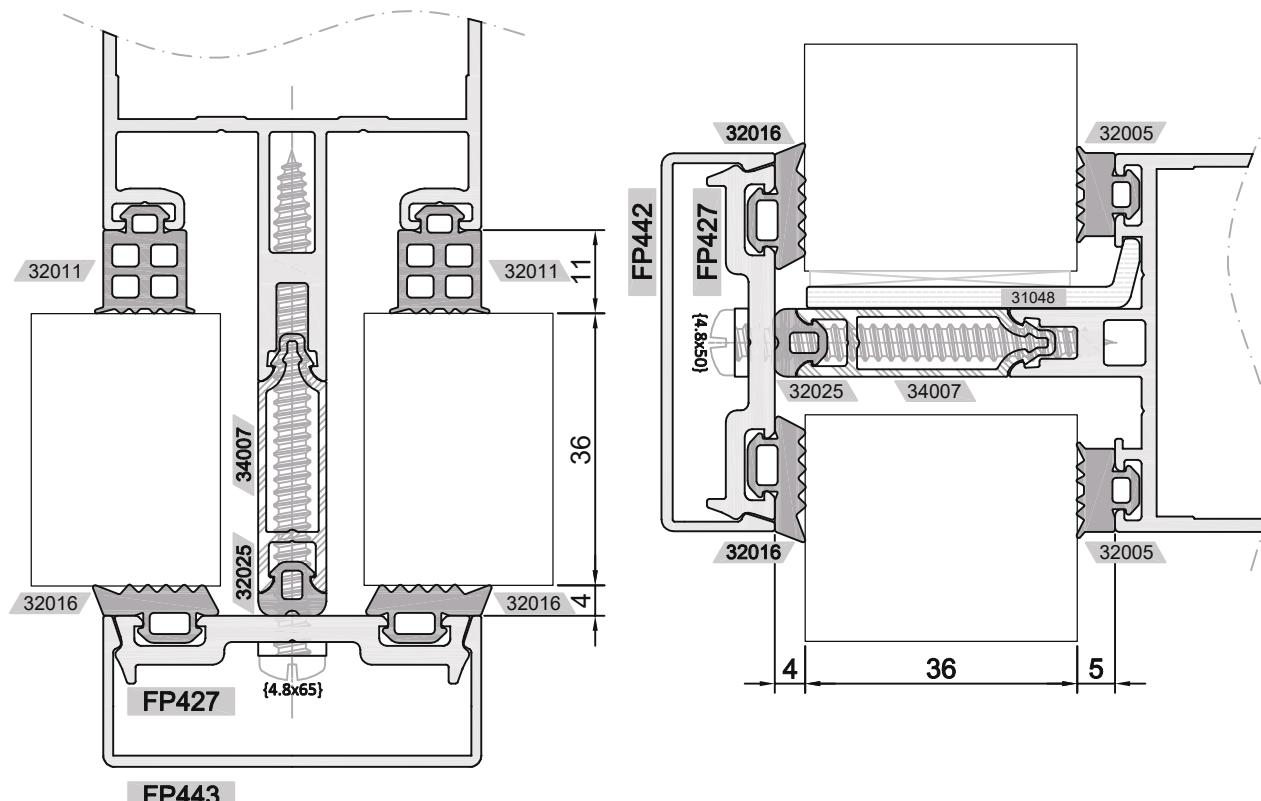
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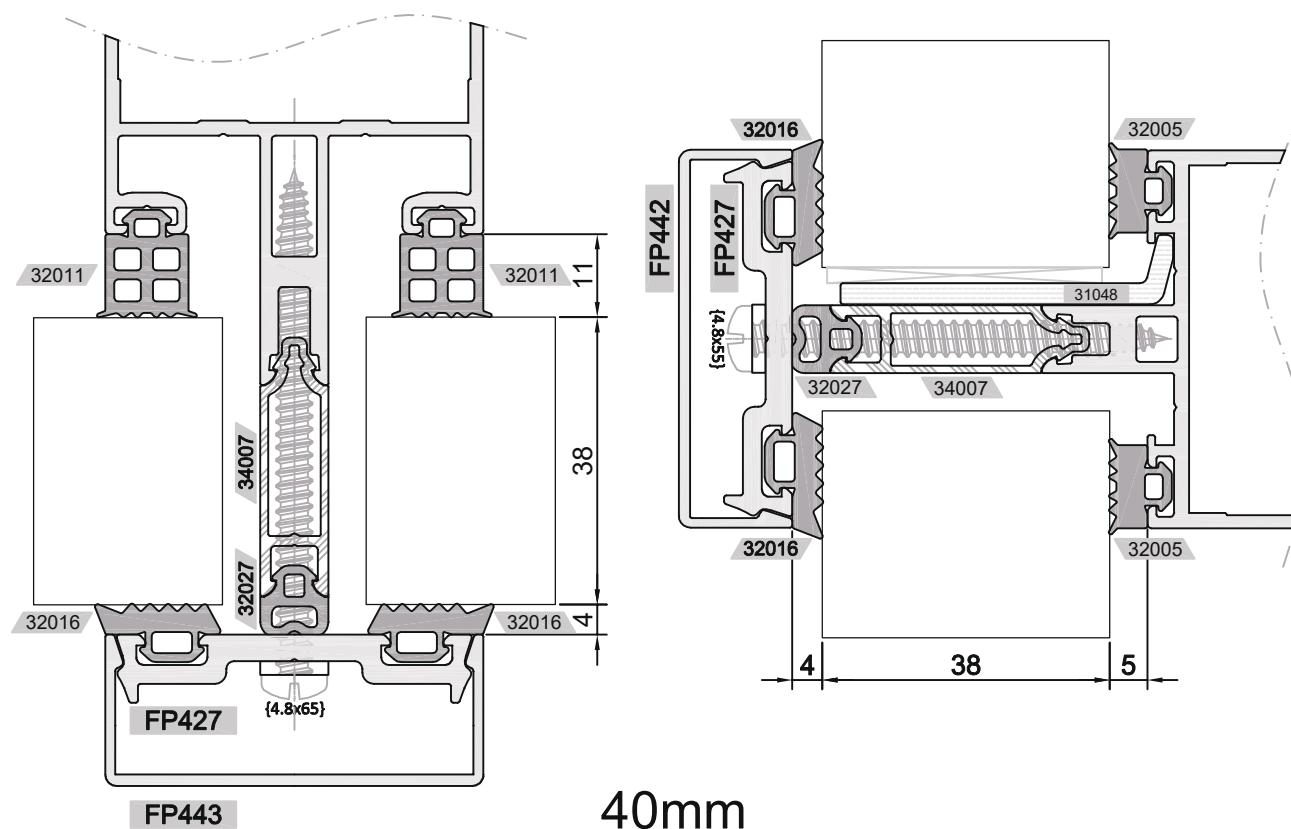
34mm



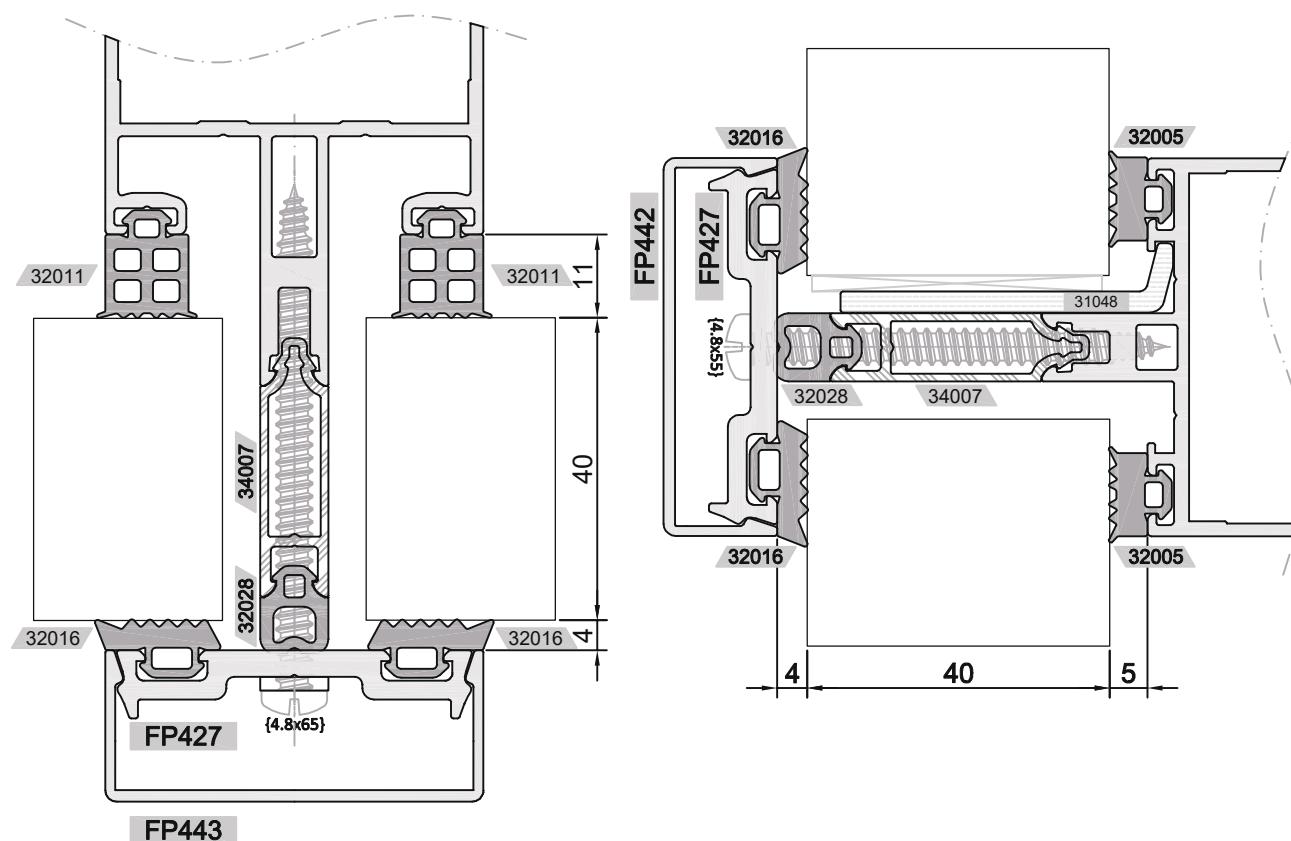
36mm



38mm

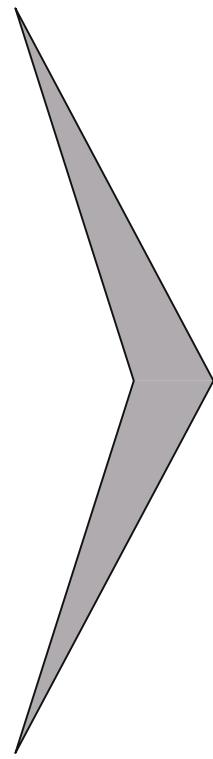


40mm



**CAM KALINLIKLARI NA GÖRE
ENTEGRE SİSTEM DETAYLARI**

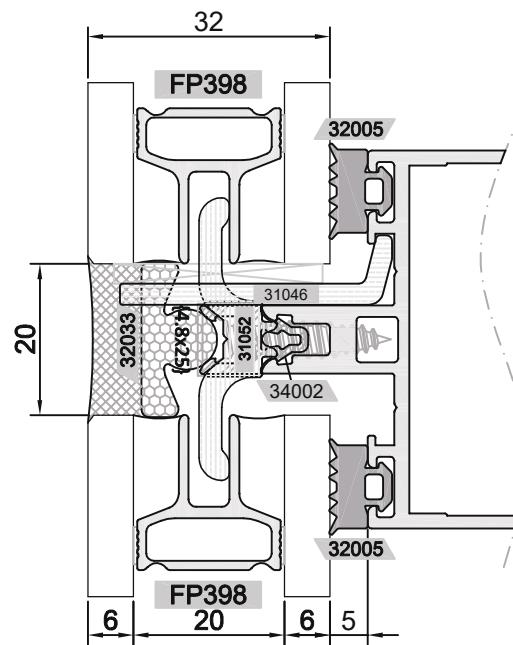
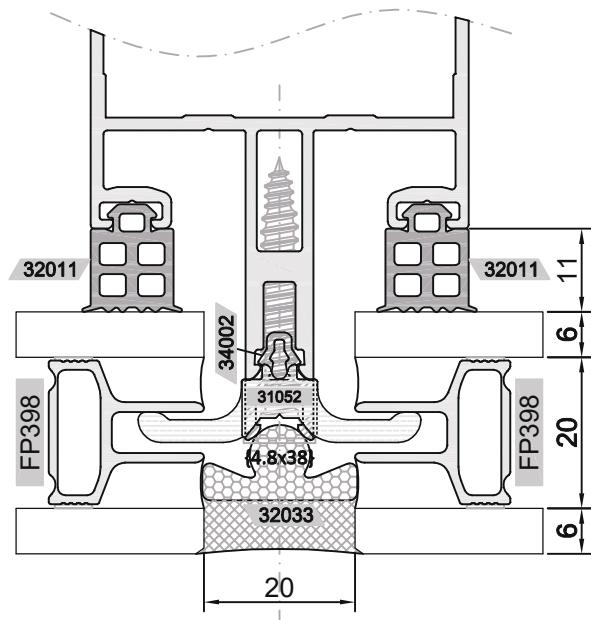
**INTEGRATED CURTAIN WALL
DETAILS ACCORDING TO THE
GLASS THICKNESSES**



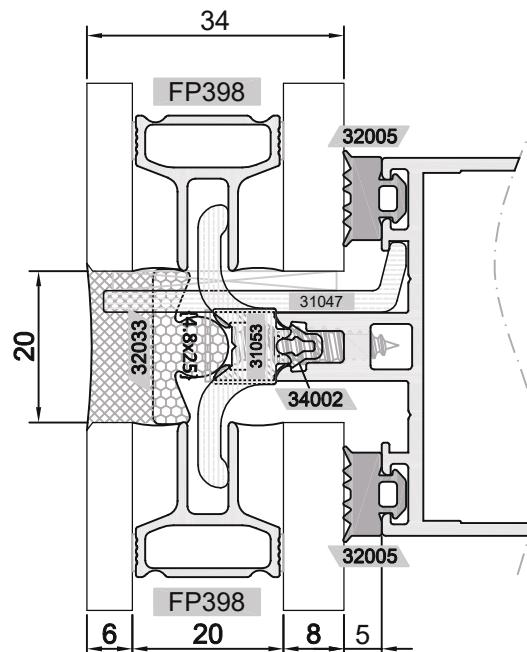
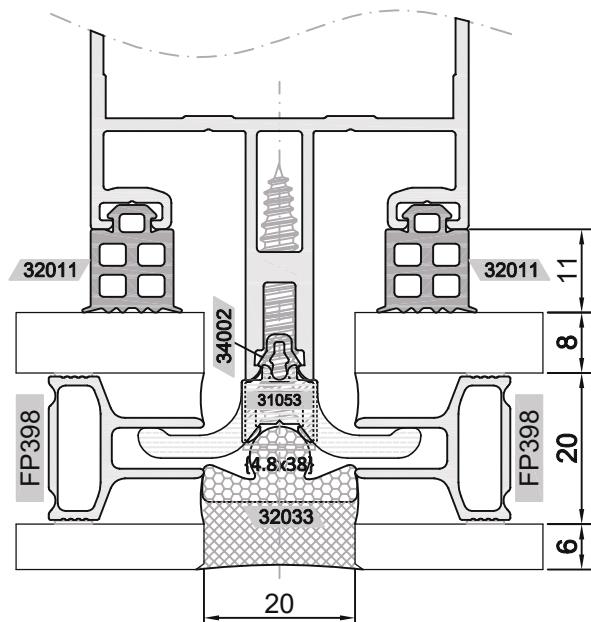
*** 20mm STANDART
ALÜMİNYUM
ISICAM ÇITASI
20mm STANDARD
ALUMINIUM SPACER**

► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
SİSTEM ALUMINIUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

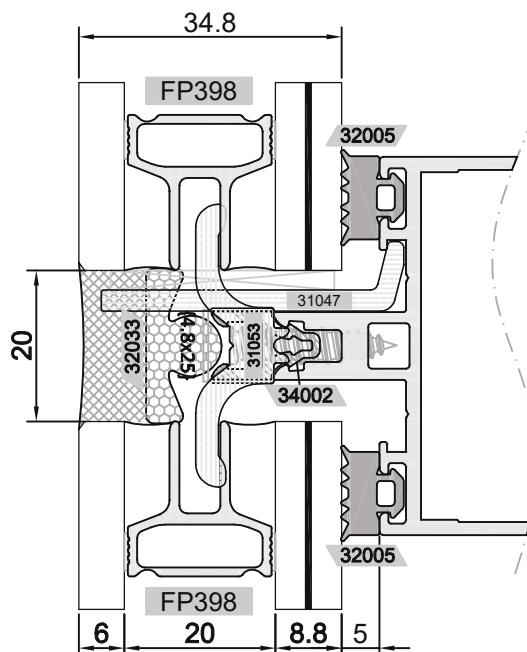
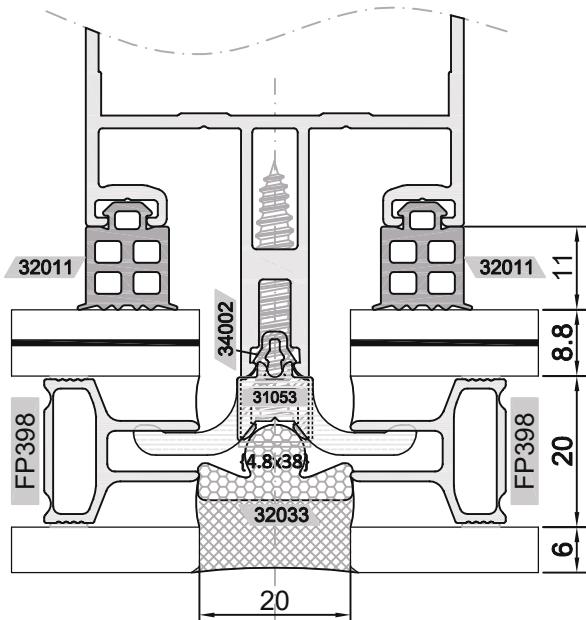
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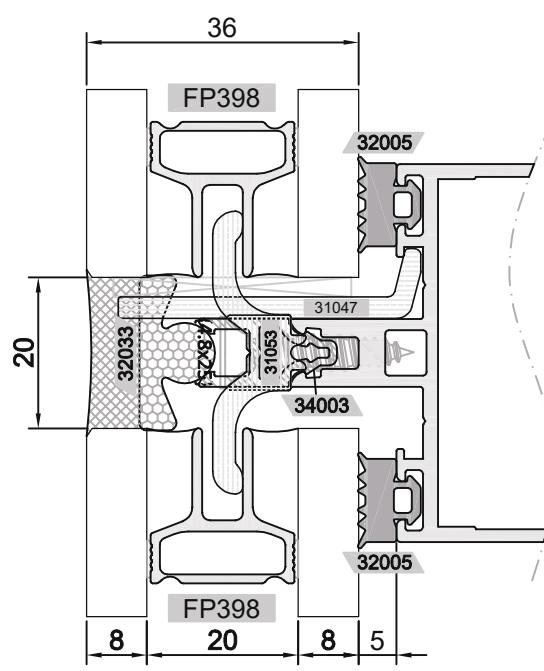
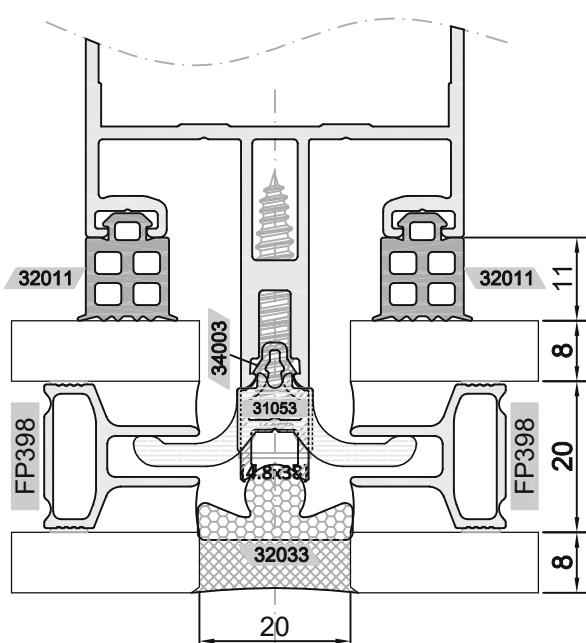
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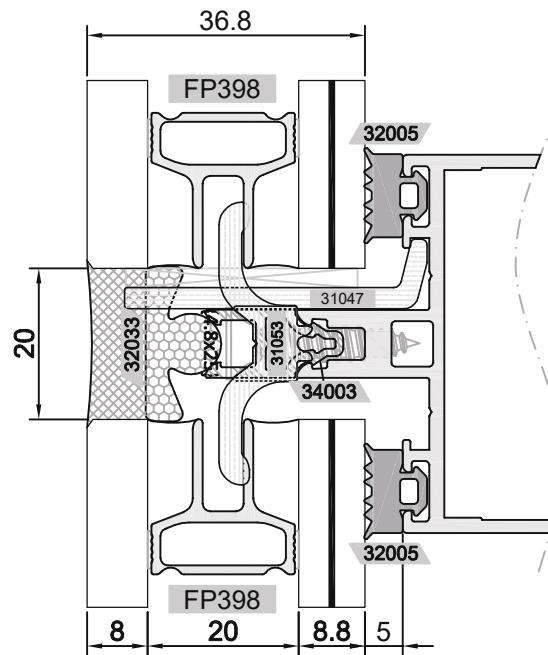
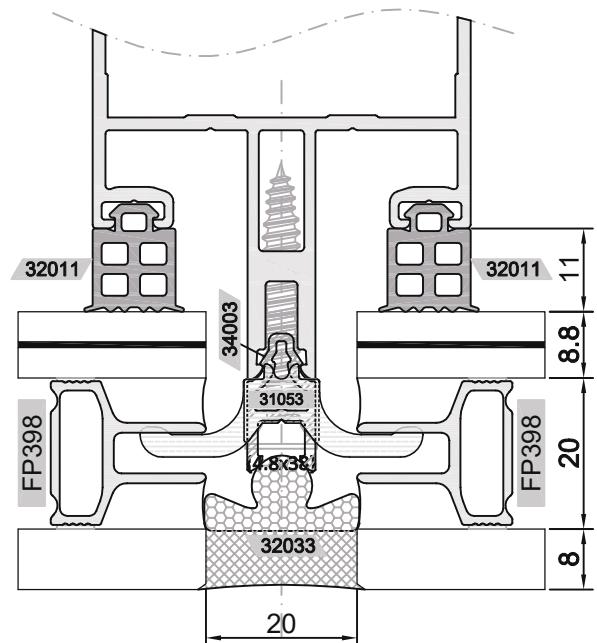
34,76mm



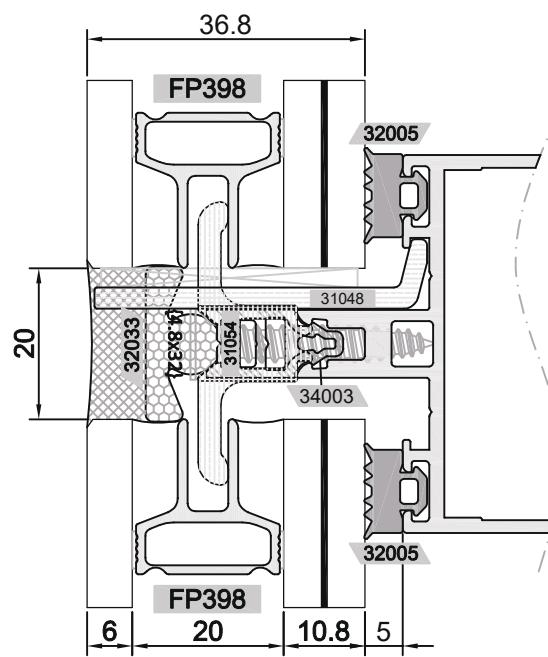
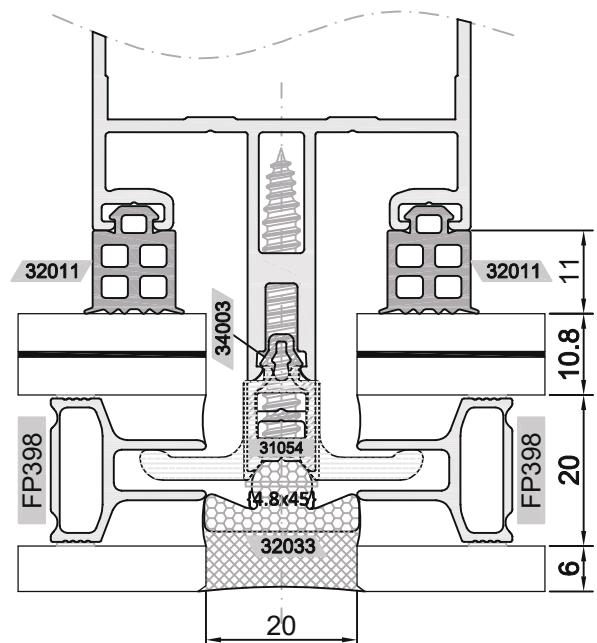
36mm



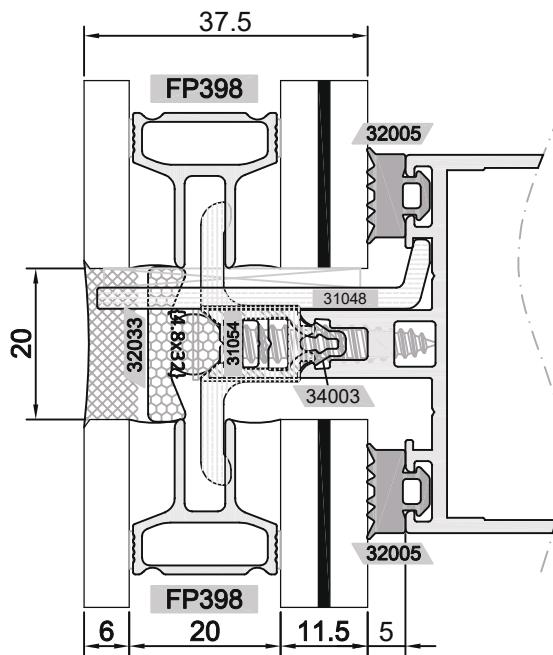
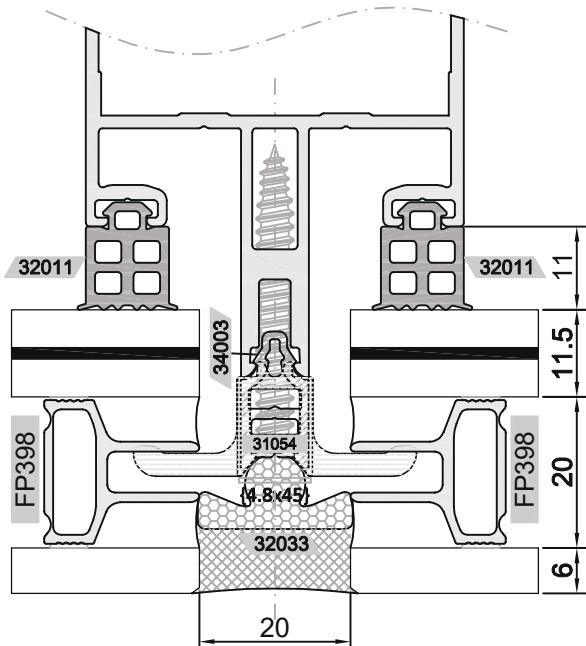
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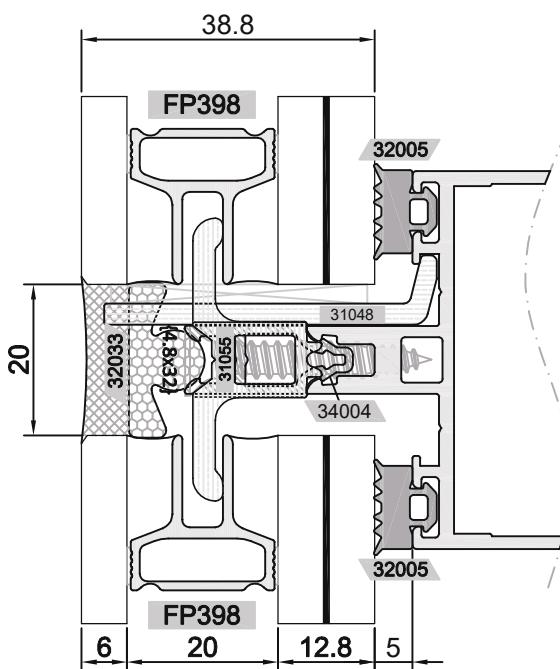
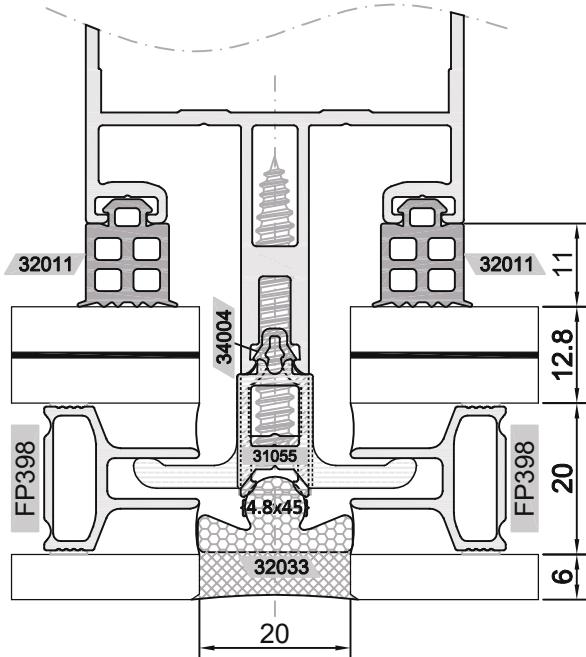
36,76mm



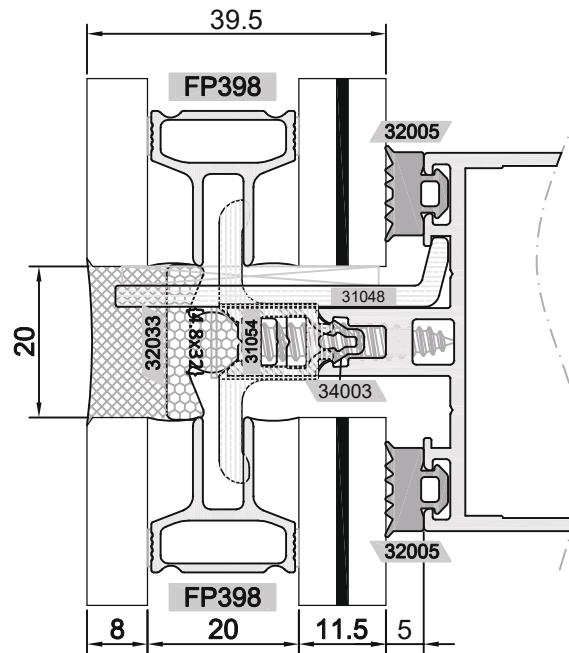
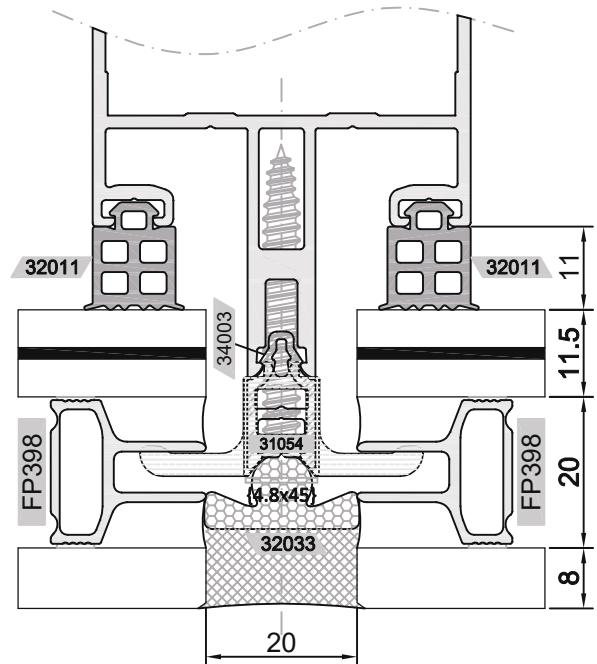
37,52mm



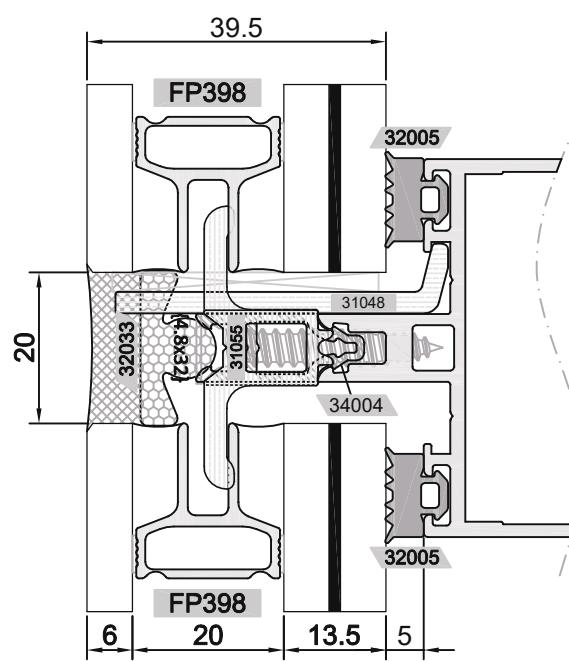
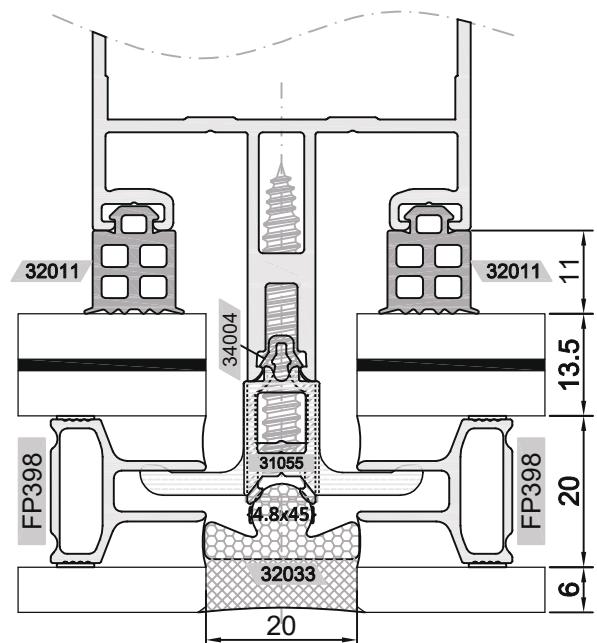
38,76mm



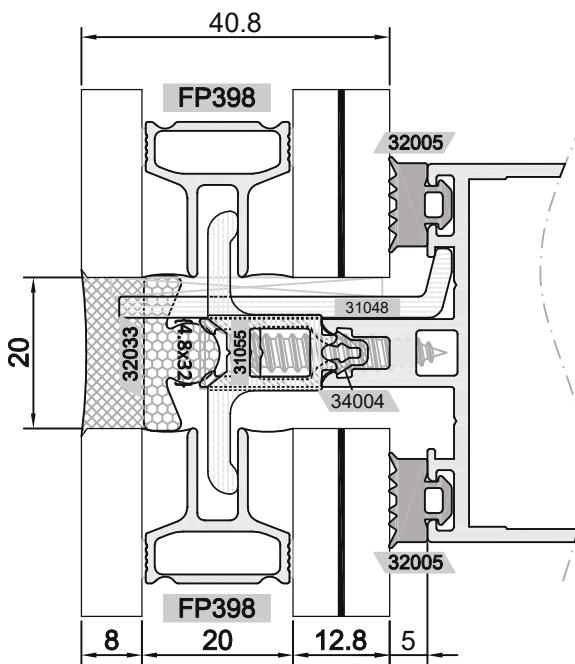
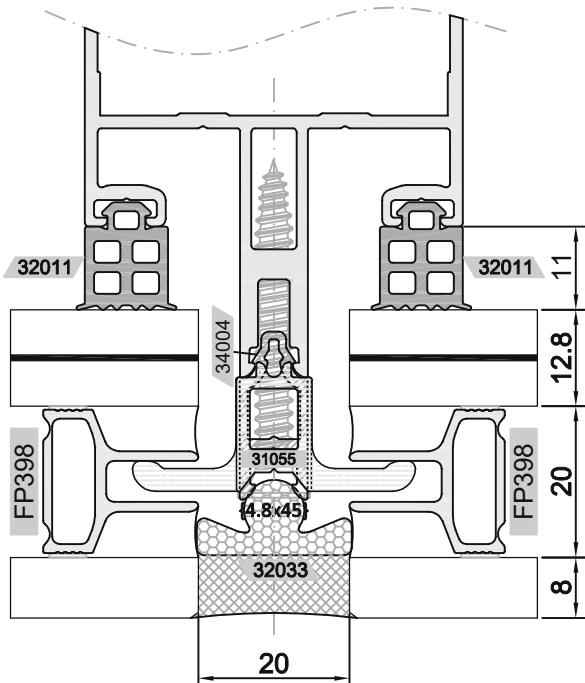
39,52mm



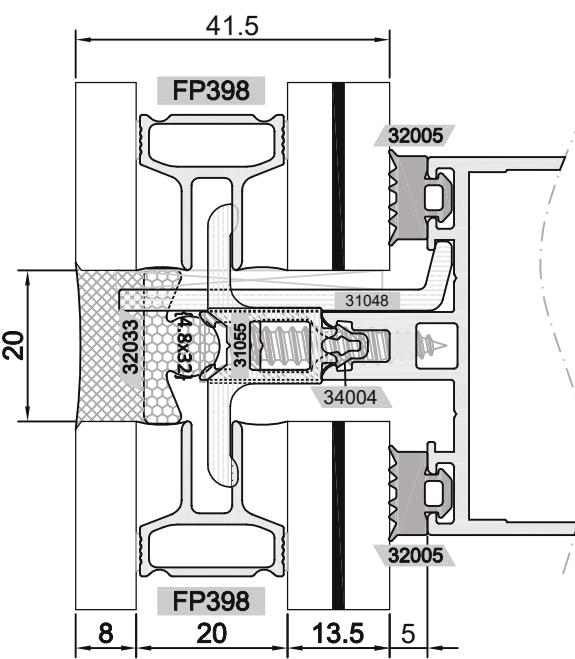
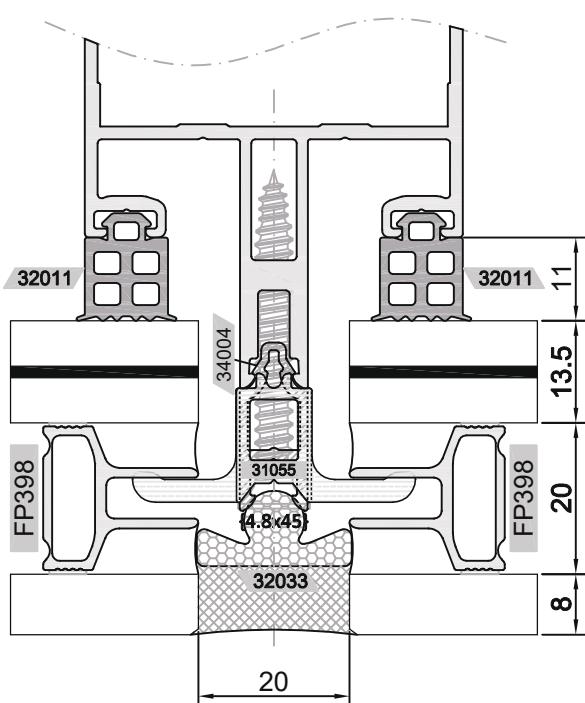
39,52mm



40,76mm

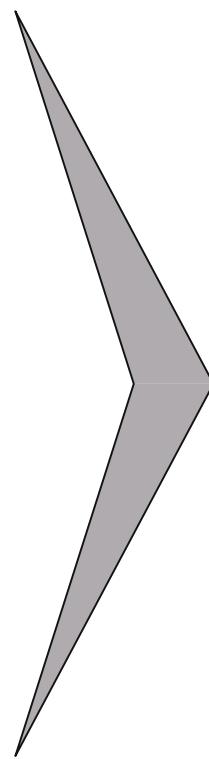


41,52mm



**CAM KALINLIKLARI NA GÖRE
ENTEGRE SİSTEM DETAYLARI**

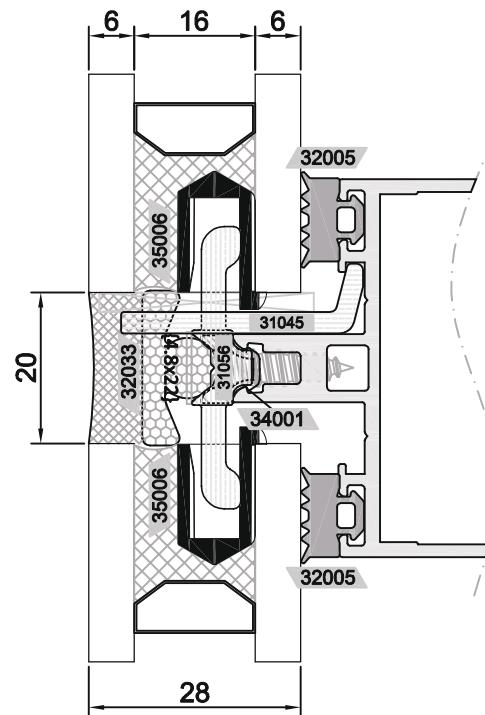
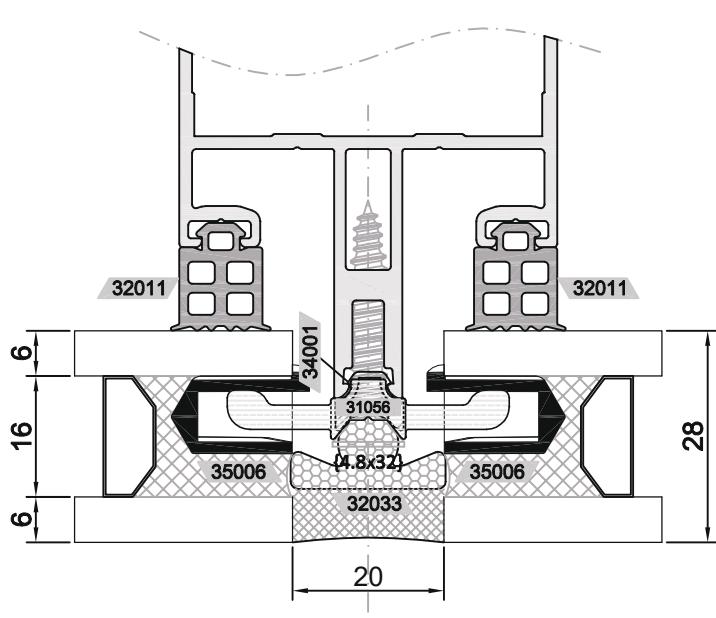
**INTEGRATED CURTAIN WALL
DETAILS ACCORDING TO THE
GLASS THICKNESSES**



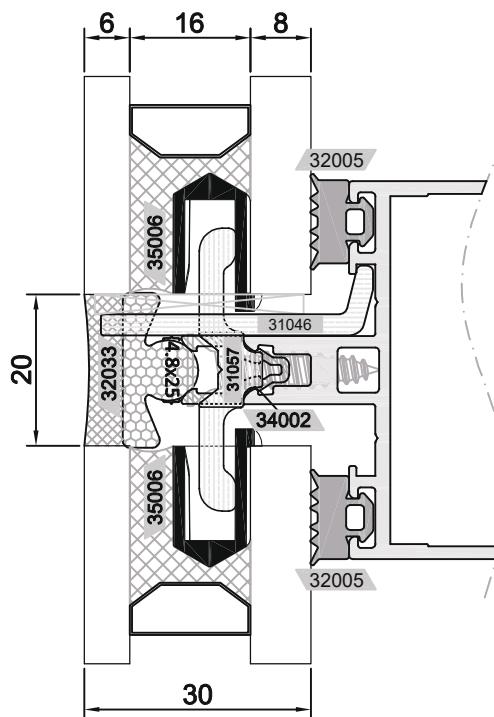
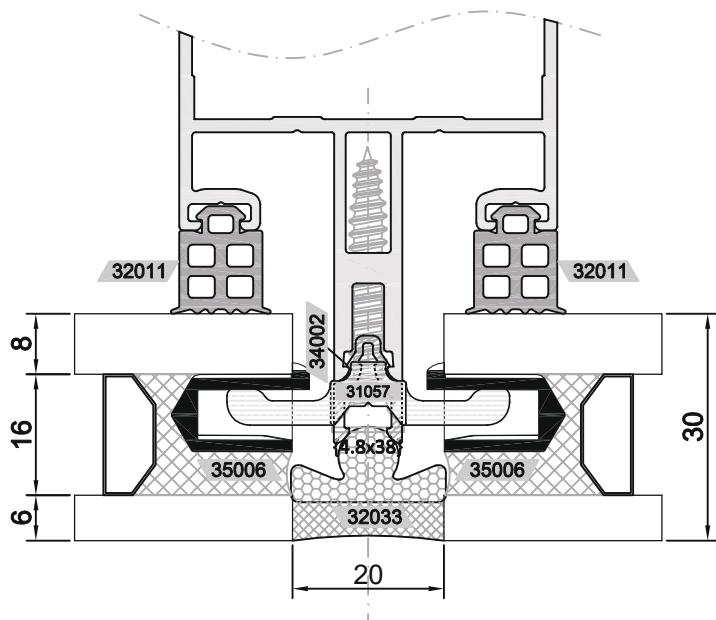
*** 16mm ÖZEL
SICAK KENAR
ISICAM ÇITASI**
16mm SPECIAL
WARM EDGE
SPACER

► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
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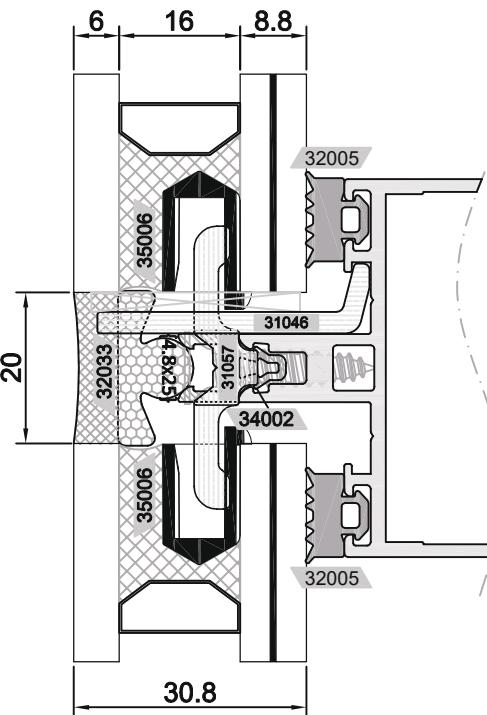
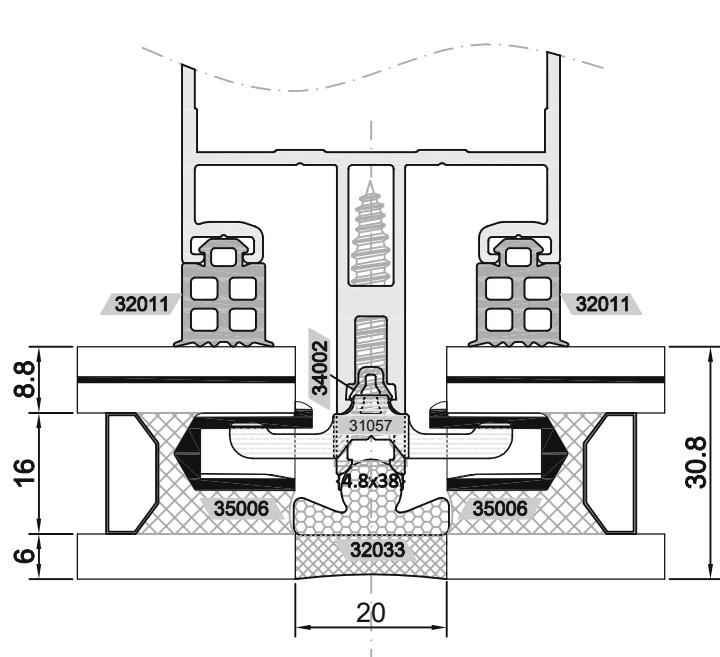
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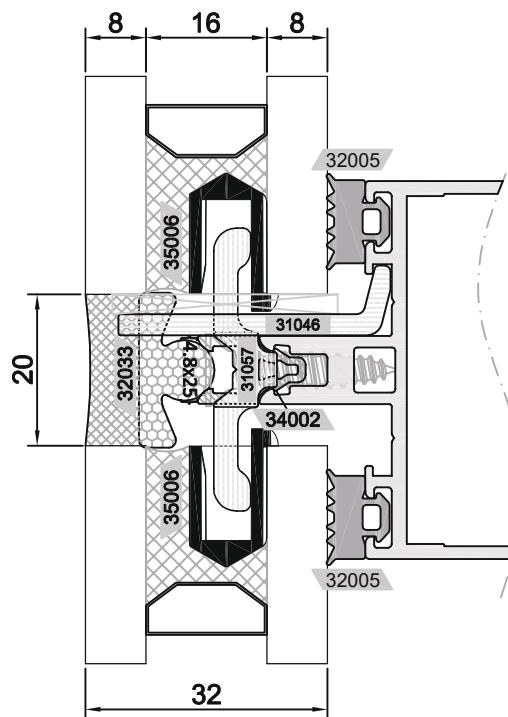
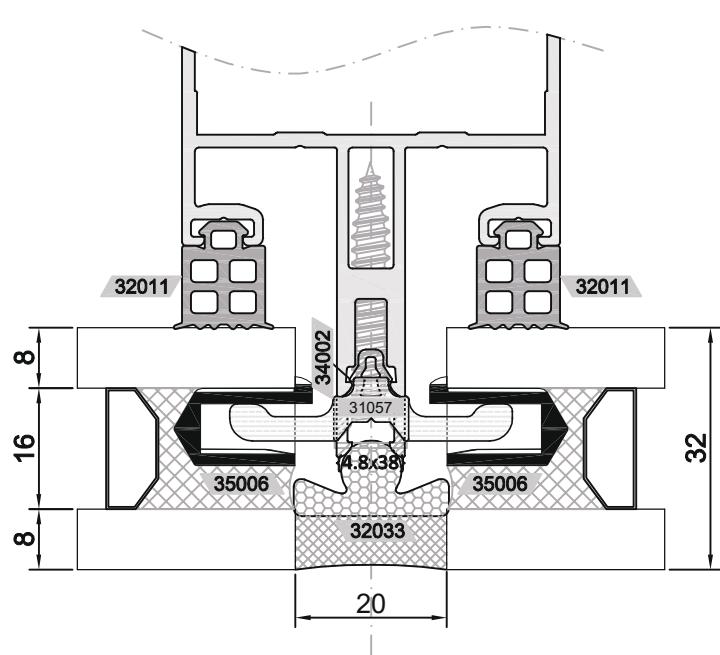
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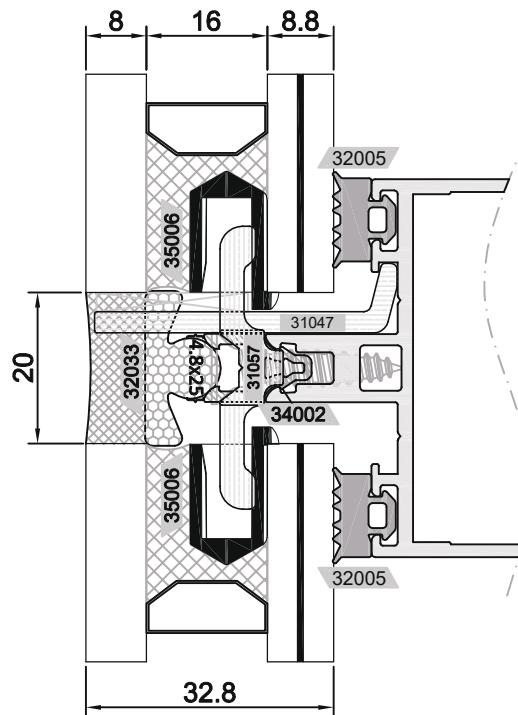
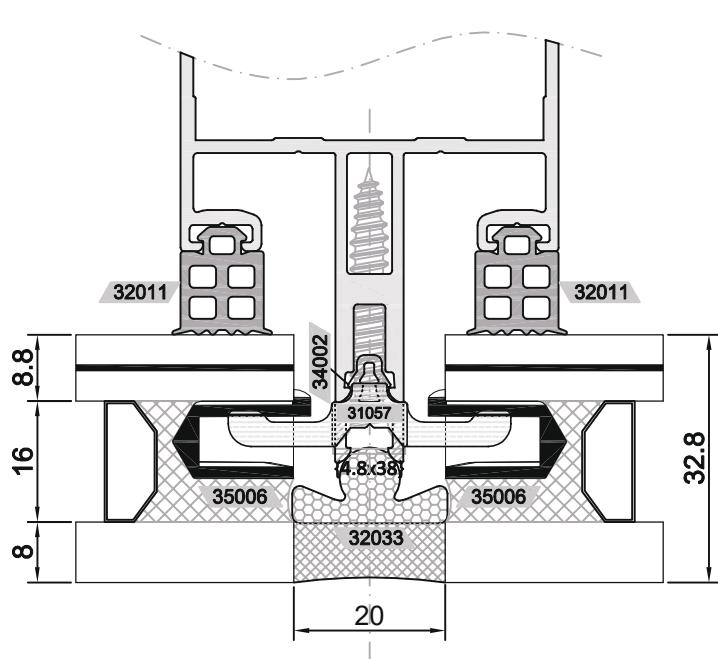
30,76mm



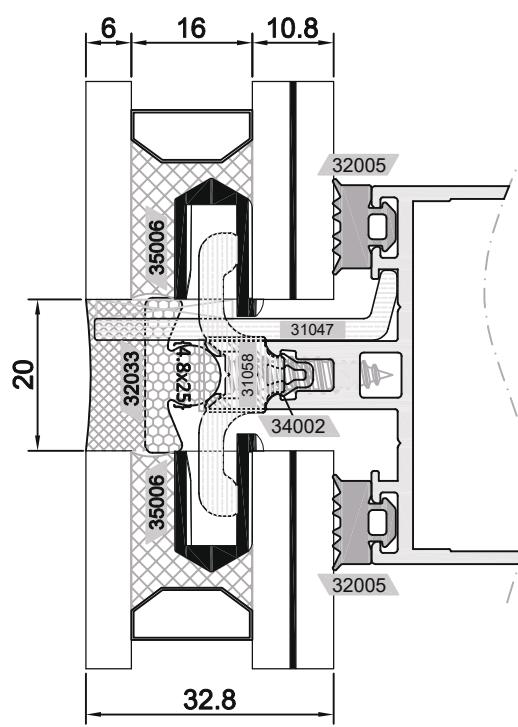
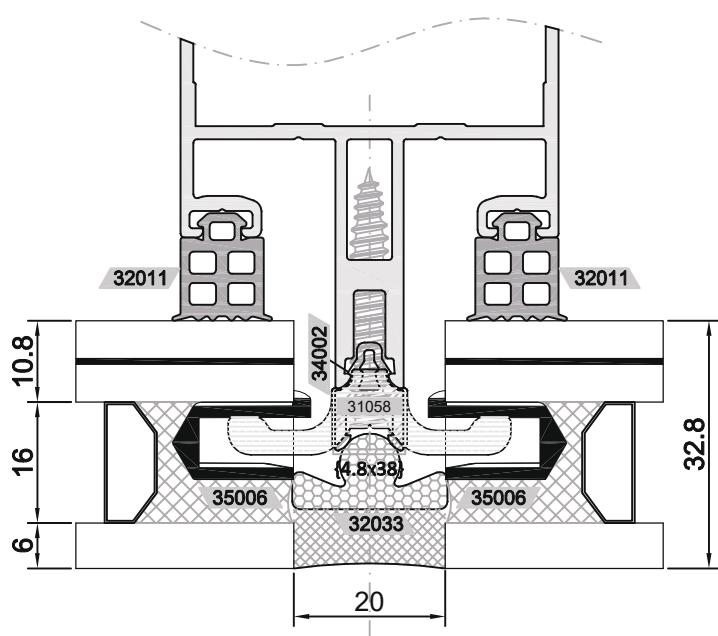
32mm



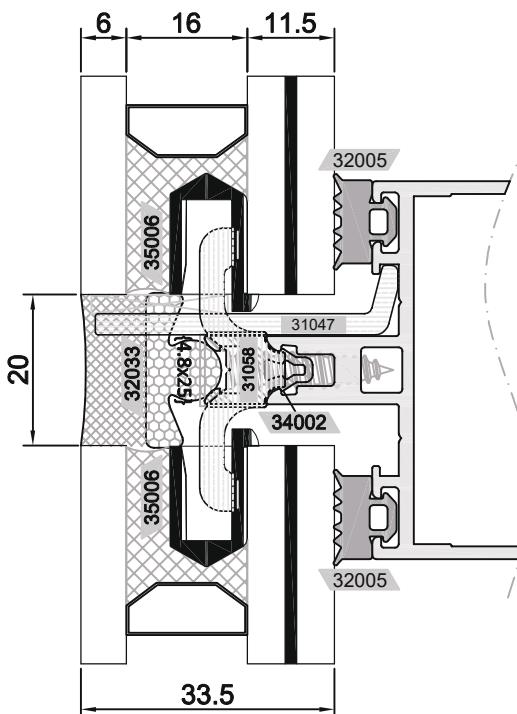
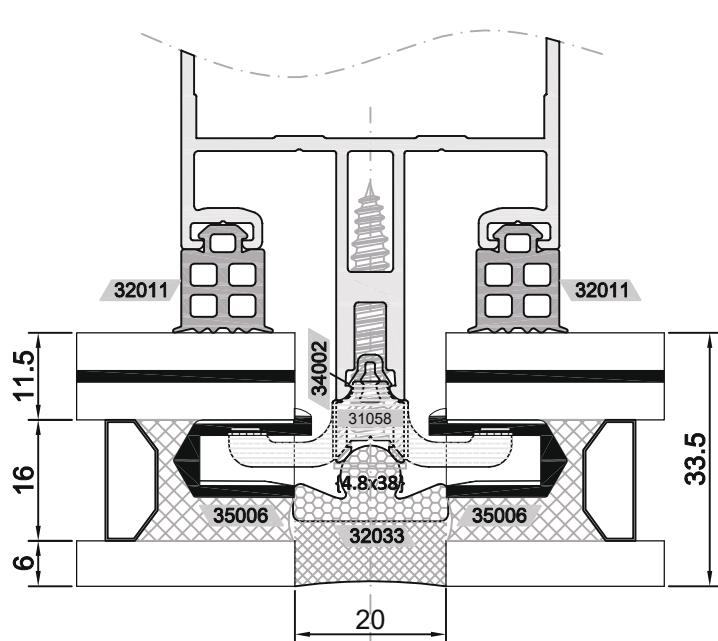
32,76mm



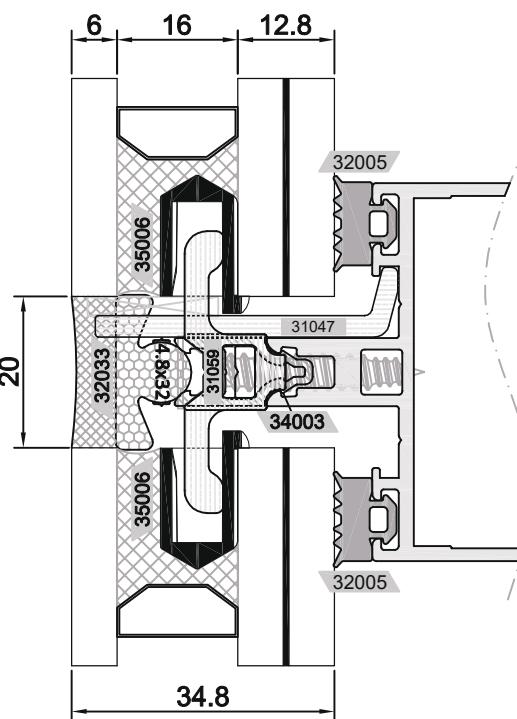
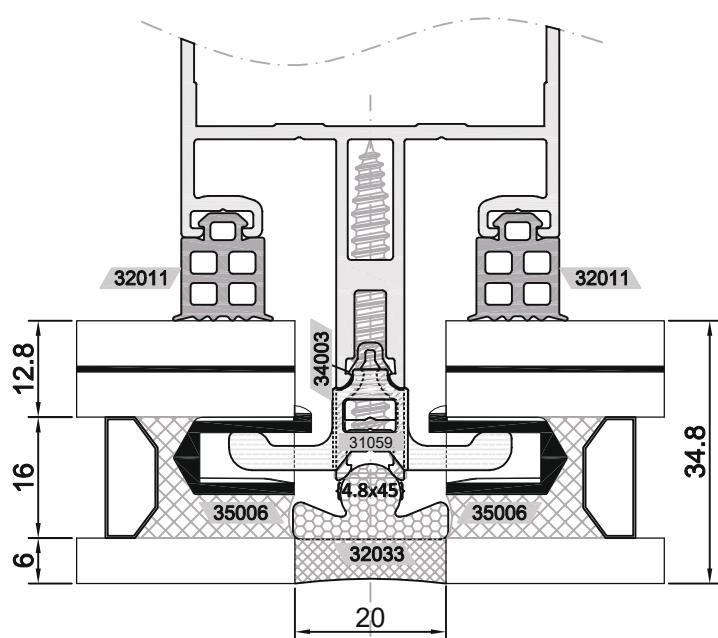
32,76mm



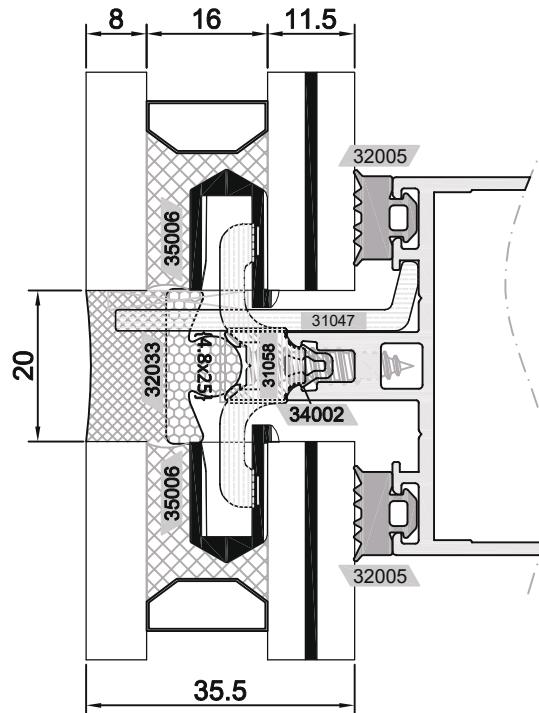
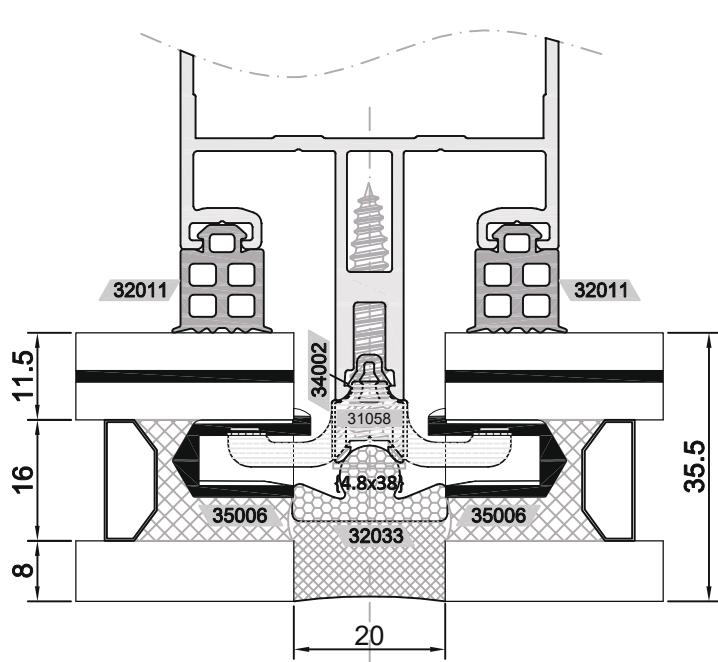
33,52mm



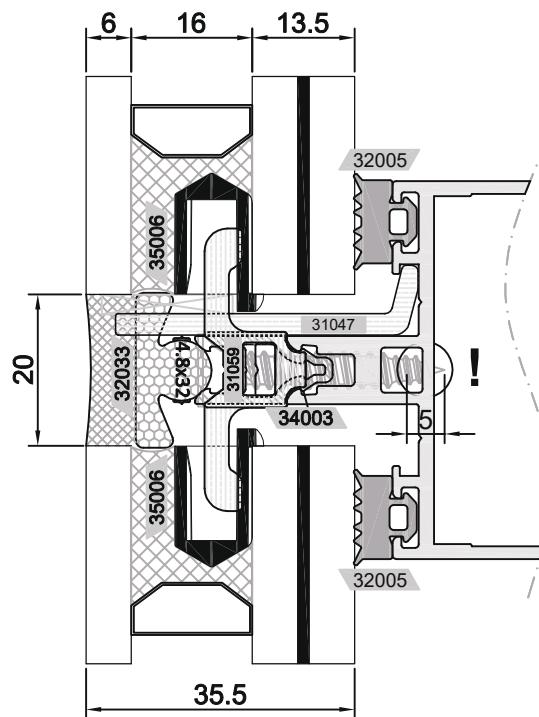
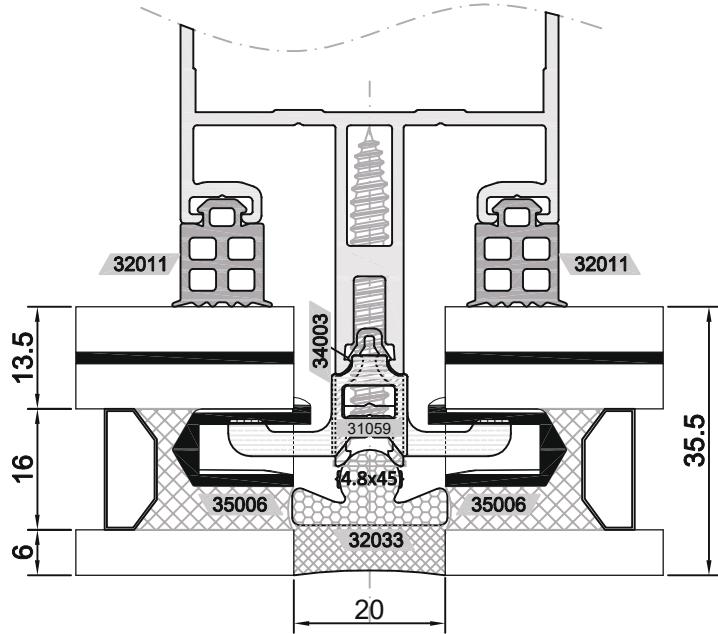
34,76mm



35,52mm

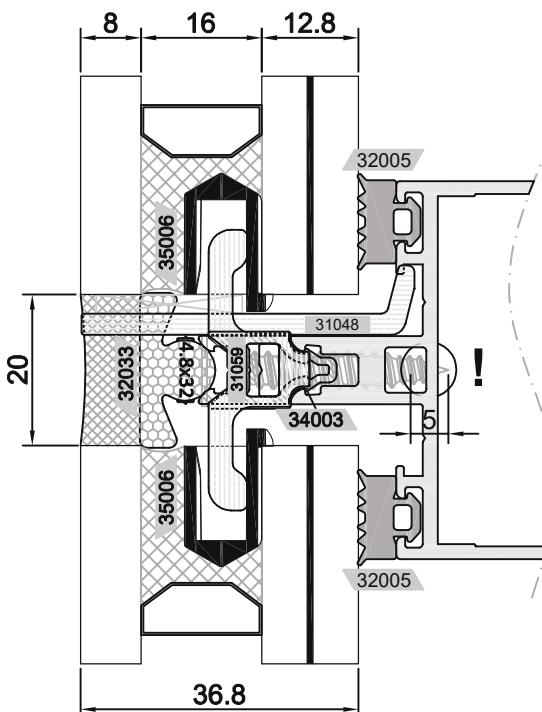
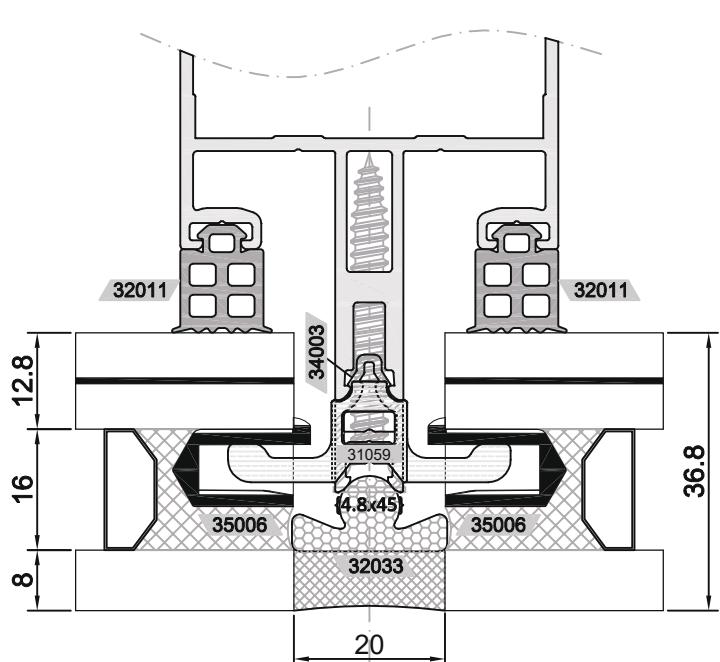


35,52mm



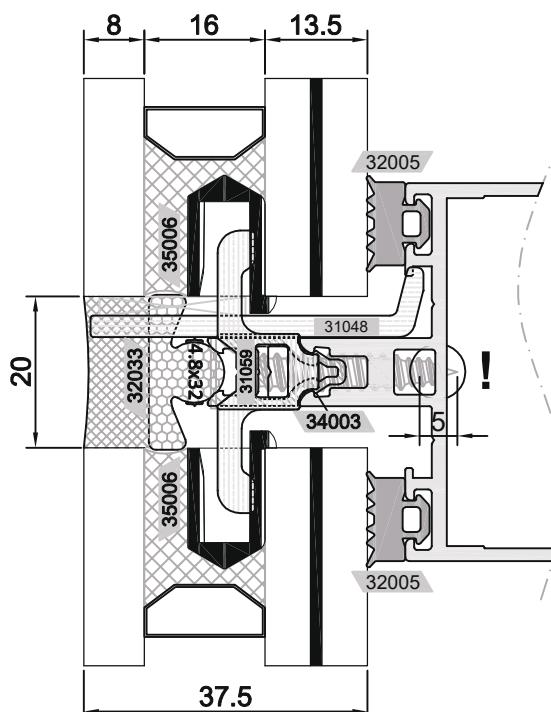
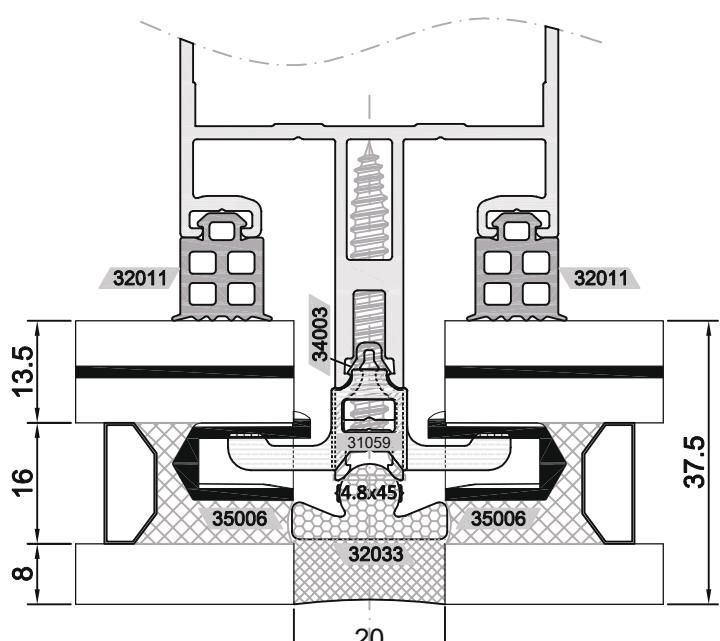
! Kertme / Notching

36,76mm



! Kertme / Notching

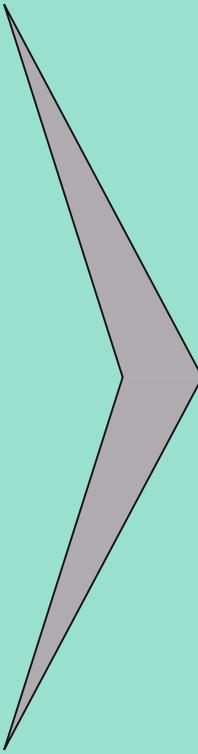
37,52mm



! Kertme / Notching

AKSESUAR FİHİRİSTİ

ACCESSORY INDEX



► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
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AKSESUAR FİHRİSTİ / ACCESSORY INDEX

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31003	KÖŞE TAKOZU - 13 mm / CORNER CLEAT	151
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EPDM FİTİLLER / EPDM GASKETS

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32003 İÇ BİNİ FİTİLİ 3 mm / INNER STEP GASKET 3 mm BİRİM AĞIRLIK / UNIT WEIGHT: 52 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 288 m		
32004 İÇ BİNİ FİTİLİ 4 mm / INNER STEP GASKET 4 mm BİRİM AĞIRLIK / UNIT WEIGHT: 68 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 220 m		
32005 İÇ BİNİ FİTİLİ 5 mm / INNER STEP GASKET 5 mm BİRİM AĞIRLIK / UNIT WEIGHT: 82 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 183 m		
32006 İÇ BİNİ FİTİLİ 6 mm / INNER STEP GASKET 6 mm BİRİM AĞIRLIK / UNIT WEIGHT: 86 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 174 m		
32007 İÇ BİNİ FİTİLİ 7 mm / INNER STEP GASKET 7 mm BİRİM AĞIRLIK / UNIT WEIGHT: 91 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 166 m		
32008 İÇ BİNİ FİTİLİ 8 mm / INNER STEP GASKET 8 mm BİRİM AĞIRLIK / UNIT WEIGHT: 98 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 153 m		
32009 İÇ BİNİ FİTİLİ 9 mm / INNER STEP GASKET 9 mm BİRİM AĞIRLIK / UNIT WEIGHT: 105 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 143 m		
32010 İÇ BİNİ FİTİLİ 10 mm / INNER STEP GASKET 10 mm BİRİM AĞIRLIK / UNIT WEIGHT: 115 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 130 m		

EPDM FİTİLLER / EPDM GASKETS

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32012 <i>İÇ BİNİ FİTİİLİ 12 mm / INNER STEP GASKET 12 mm</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 126 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 120 m</i>		
32013 <i>İÇ BİNİ FİTİİLİ 13 mm / INNER STEP GASKET 13 mm</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 131 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 115 m</i>		
32014 <i>İÇ BİNİ FİTİİLİ 14 mm / INNER STEP GASKET 14 mm</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 137 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 110 m</i>		
32015 <i>İÇ BİNİ FİTİİLİ 15 mm / INNER STEP GASKET 15 mm</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 143 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 105 m</i>		
32016 <i>DIŞ BİNİ FİTİİLİ 4 mm / OUTER STEP GASKET 4 mm</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 88 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 170 m</i>		
32017 <i>AÇILI DIŞ CAM FİTİİLİ / ANGULAR OUTER STEP GASKET</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 91 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 165 m</i>		
32018 <i>YEKPARE DIŞ BİNİ FİTİİLİ / ONE PIECE STEP GASKET</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 124 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 121 m</i>		
32019 <i>KAMA FİTİİLİ 3 mm / GLAZING SUPPORT GASKET 3 mm</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 41 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 365 m</i>		

EPDM FİTİLLER / EPDM GASKETS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	ÇİZİM / DRAWING	TAKILMA BÖLGESİ / APPLICATION AREA
32020 KAMA FİTİLİ 4 mm / GLAZING SUPPORT GASKET 4 mm BİRİM AĞIRLIK / UNIT WEIGHT: 54 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 280 m		
32021 KAMA FİTİLİ 5 mm / GLAZING SUPPORT GASKET 5 mm BİRİM AĞIRLIK / UNIT WEIGHT: 67 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 224 m		
32022 KAMA FİTİLİ 6 mm / GLAZING SUPPORT GASKET 6 mm BİRİM AĞIRLIK / UNIT WEIGHT: 89 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 168 m		
32023 KANAT DESTEK FİTİLİ / SUPPORT GASKET FOR VENT BİRİM AĞIRLIK / UNIT WEIGHT: 54 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 275 m		
32024 KANAT İÇ BİNİ FİTİLİ / INNER STEP GASKET FOR VENT BİRİM AĞIRLIK / UNIT WEIGHT: 40 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 370 m		
32025 TAŞIYICI ÖN FİTİL 3mm / MULLION FRONT GASKET 3mm BİRİM AĞIRLIK / UNIT WEIGHT: 47 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 316 m		
32026 TAŞIYICI ÖN FİTİL 4mm / MULLION FRONT GASKET 4mm BİRİM AĞIRLIK / UNIT WEIGHT: 56 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 266 m		
32027 TAŞIYICI ÖN FİTİL 5mm / MULLION FRONT GASKET 5mm BİRİM AĞIRLIK / UNIT WEIGHT: 58 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 260 m		
32028 TAŞIYICI ÖN FİTİL 7mm / MULLION FRONT GASKET 7mm BİRİM AĞIRLIK / UNIT WEIGHT: 71 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 212 m		

EPDM FİTİLLER / EPDM GASKETS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	ÇİZİM / DRAWING	TAKILMA BÖLGESİ / APPLICATION AREA
32029 KANAT ÇARŞAF FİTİLİ - 1 / SHEET GASKET FOR VENT BİRİM AĞIRLIK / UNIT WEIGHT: 125 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 120 m		
32030 KANAT ÇARŞAF FİTİLİ - 2 / SHEET GASKET FOR VENT BİRİM AĞIRLIK / UNIT WEIGHT: 153 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 98 m		
32031 KANAT ÇARŞAF FİTİLİ - 3 / SHEET GASKET FOR VENT BİRİM AĞIRLIK / UNIT WEIGHT: 185 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 81 m		
32032 KANAT ÇARŞAF FİTİLİ - 4 / SHEET GASKET FOR VENT BİRİM AĞIRLIK / UNIT WEIGHT: 229 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 66 m		
32033 POLİETİLEN DERZ FİTİL / POLYETHYLENE SEAM GASKET BİRİM AĞIRLIK / UNIT WEIGHT: 30 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 500 m		
32034 İÇ MEKAN DERZ KAPATMA FİTİLİ / INSIDE SEAM GASKET BİRİM AĞIRLIK / UNIT WEIGHT: 204 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 73 m		
32035 SİLİKON DERZ KAPATMA FİTİLİ / SILICONE SEAM GASKET BİRİM AĞIRLIK / UNIT WEIGHT: 194 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 77 m		
33001 VULKANİZE KÖŞE PARÇASI / VULCANISED CORNER PIECE İLİŞKİLİ FİTİLLER / RELATED GASKETS: 32005 & 32011		
33002 VULKANİZE KÖŞE PARÇASI / VULCANISED CORNER PIECE İLİŞKİLİ FİTİL / RELATED GASKET: 32023		

ISI BARIYERLERİ / INSULATION BARS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	ÇİZİM / DRAWING	TAKILMA BÖLGESİ / APPLICATION AREA
33003 VULKANİZÉ KÖŞE PARÇASI / VULCANISED CORNER PIECE İLİŞKİLİ FITİL / RELATED GASKET: 32024		
34001 TAŞIYICI ÖN İZOLASYON (PVC) 4 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		
34002 TAŞIYICI ÖN İZOLASYON (PVC) 8 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		
34003 TAŞIYICI ÖN İZOLASYON (PVC) 12 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		
34004 TAŞIYICI ÖN İZOLASYON (PVC) 16 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		
34005 TAŞIYICI ÖN İZOLASYON (PVC) 20 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		
34006 TAŞIYICI ÖN İZOLASYON (PVC) 24 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		
34007 TAŞIYICI ÖN İZOLASYON (PVC) 28 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		

KÖŞE TAKOZLARI / CORNER CLEATS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	ÇİZİM / DRAWING	KESİM ÖLÇÜSÜ / CUTTING DIMENSION
31001 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		29,4 mm
31002 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		11 mm
31003 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		13 mm
31004 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		44,9 mm
31005 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		21 mm
31006 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		17 mm
31007 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		23 mm
31008 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		19 mm

KÖŞE TAKOZLARI / CORNER CLEATS

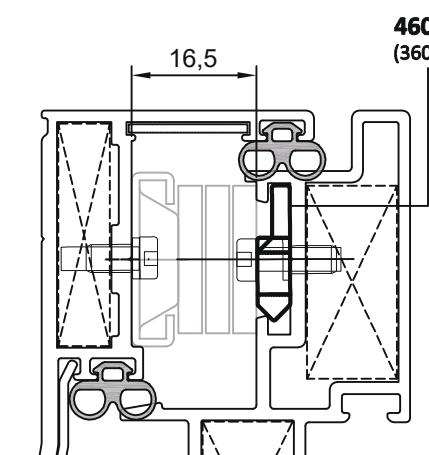
AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	ÇİZİM / DRAWING	KESİM ÖLÇÜSÜ / CUTTING DIMENSION
31009 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: <u>FP521</u> PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		24,7 mm
31010 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: <u>FP521</u> PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		7 mm
31011 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: <u>FP521</u> PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		26,9 mm
31012 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: <u>FP521</u> PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		17,5 mm
31013 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: <u>FP521</u> PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		26 mm
31014 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: <u>FP521</u> PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		9 mm
31015 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: <u>FP521</u> PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		24,4 mm
31016 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: <u>FP521</u> PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		39,6 mm
35001 KÖŞE ÇAVUŞU / CORNER ALIGNMENT MALZEME / MATERIAL: POLYAMID		16 x 1,5

MAKASLAR / FRICTION STAYS



ÜRÜN KODU PRODUCT CODE	ALTERNATİF YERLİ ÜRÜN KODLARI ALTERNATIVE NATIVE PRODUCT CODES	MAKAS BOYU FRICTION STAY LENGTH (inch)	MAKAS BOYU FRICTION STAY LENGTH (mm)	KANAT AÇMA DERECESİ OPENING ANGLE	MAKS. KANAT YÜKEKLİĞİ MAX. VENT HEIGHT (mm)	MAKS. KANAT AĞIRLIĞI MAX. VENT WEIGHT (kg)
47001	37001	10"	255	35°	700	50
47002	37002	12"	305	30°/35°	800	60
47003	37003	14"	355	30°/35°	1000	70
47004	37004	16"	405	25°/30°	1200	90
47005	37005	18"	460	25°/30°	1400	100
47006	37006	20"	505	20°/25°	1600	135
47007	37007	22"	560	20°/25°	1700	140
47008	37008	24"	610	20°/25°	1800	145
47009	37009	26"	660	10°/15°/20°	2000	155
47010	37010	28"	710	10°/15°/20°	2500	180

! TABLODA BELİRTİLEN TEKNİK DEĞERLER, İTHAL ÜRÜNLERE AİTTİR. YERLİ ALTERNATİFLERİ İÇİN DEĞERLER FARKLI OLABİLİR.
! TECHNICAL VALUES ARE BELONG TO IMPORTED PRODUCTS AS SHOWN AT THE TABLE. VALUES CAN BE DIFFERENT AT THE NATIVE ALTERNATIVES.



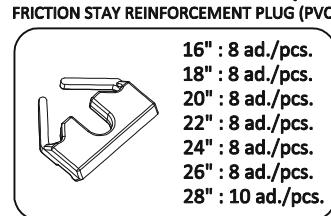
* STANDART AKSESUAR SETİNDE YER ALMAYAN 46012 KODLU METRİK PERÇİN VE VİDALARIN KULLANILMASI DURUMUNDA TÜM MAKAS TIPLERİ İÇİN MAKSİMUM KANAT AĞIRLIĞI 180 KG OLUP ÜRETİCİ FİRMA GARANTİSİ ALTINDADIR.
IF USING THE METRIC PIN & SCREWS WITH THE CODE OF 46012 WHICH DOESN'T INCLUDE AT STANDARD ACCESSORY KIT, MAXIMUM CARRIAGE CAPACITY FIXED TO 180 KG FOR ALL FRICTION STAY TYPES.



46012 (36012)

METRİK PERÇİN VE VİDA SETİ
METRIC PIN AND SCREW KIT

45007 (35007)
MAKAS ALTI BESLEME TAKOZU (PVC)
FRICTION STAY REINFORCEMENT PLUG (PVC)



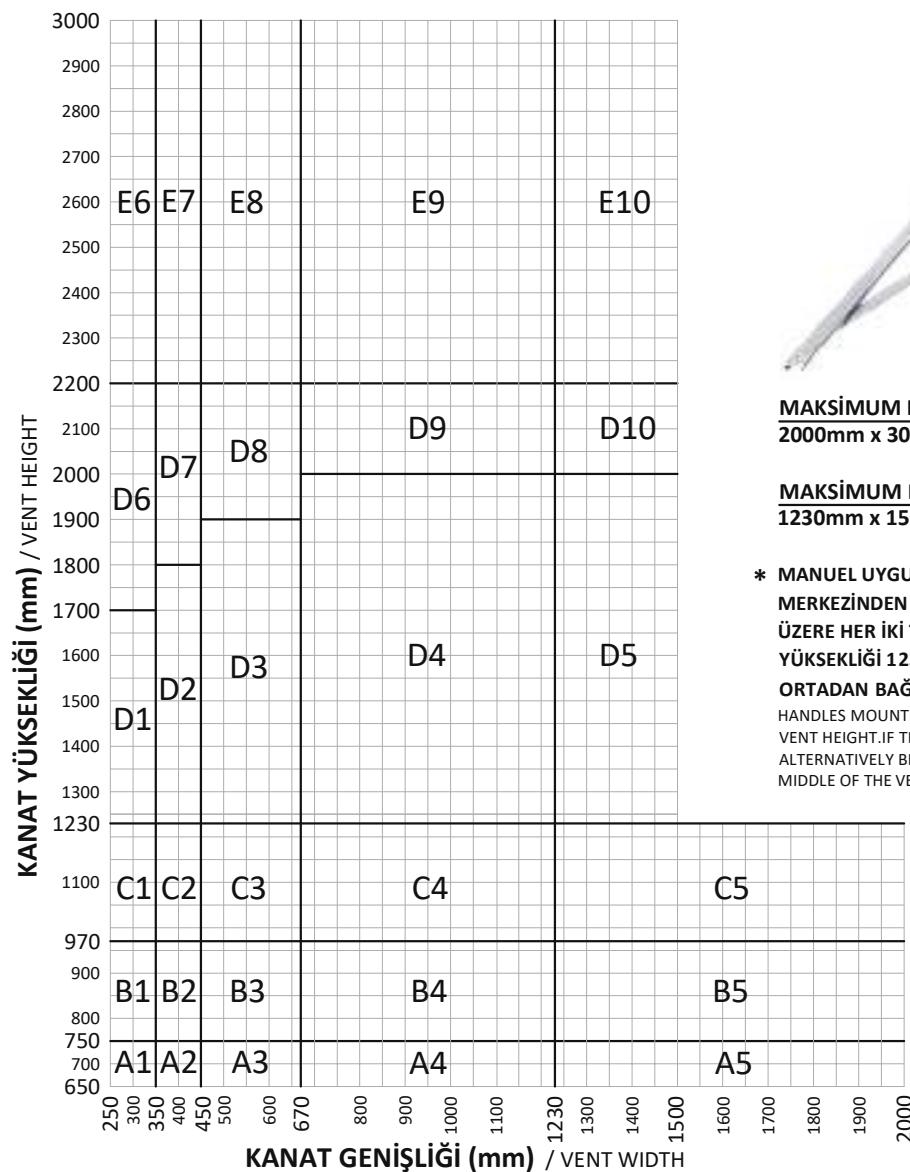
16" : 8 ad./pcs.
18" : 8 ad./pcs.
20" : 8 ad./pcs.
22" : 8 ad./pcs.
24" : 8 ad./pcs.
26" : 8 ad./pcs.
28" : 10 ad./pcs.

* () PARANTEZ İÇERİSİNDEKİ KODLAR YERLİ AKSESUARLARA AİTTİR.
() CODES INTO THE PARENTHESIS BELONG TO NATIVE ACCESSORIES.

! BU SAYFADA BELİRTİLEN AKSESUAR GÖRSELLERİ TEMSİLDİR.
! ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

PARALEL MAKASLAR / PARALEL FRICTION STAYS

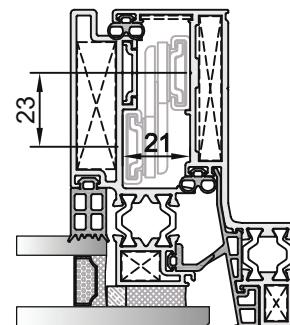
MAKAS SEÇİM DİYAGRAMI / FRICTION STAY SELECTION DIAGRAM



MAKSİMUM MOTORLU UYGULAMA ÖLÇÜSÜ:
2000mm x 3000mm

MAKSİMUM MANUEL UYGULAMA ÖLÇÜSÜ:
1230mm x 1500mm

- * MANUEL UYGULAMADA KOLLAR KANAT YÜKSEKLİĞİNİN MERKEZİNDEN +/- 15% MESAFESİNE SAĞ VE SOL OLMAK ÜZERE HER İKİ TARAFÀ MONTAJLANMALIDIR. KANAT YÜKSEKLİĞİ 1230 mm'NİN ALTINDA İSE KANATLAR ALT ORTADAN BAĞLANAN TEK KOL İLE AÇILABİLİR.
- HANDLES MOUNTED CENTRALLY ON THE VERTICAL SIDES +/- 15% OF THE VENTS HEIGHT. IF THE VENTS HEIGHT BELOW 1230 mm HIGH, IT CAN ALTERNATIVELY BE OPERATED FROM A SINGLE HANDLE AT THE BOTTOM MIDDLE OF THE VENT.



YAN MAKASLAR SIDE MOUNTED FRICTION STAYS					ALT&ÜST KONTROL MAKASLARI TOP&BOTTOM CONTROL FRICTION STAYS		
	SOL TARAF LEFT SIDE	SAĞ TARAF RIGHT SIDE	STOPLAMALAR STOPERS	MAKS. AĞIRLIK MAX. WEIGHT (mm)		ÜST TOP	ALT BOTTOM
A	1 x 47026	1 x 47030	2 x 47034	100	1	47038	-
B	1 x 47027	1 x 47031	2 x 47035	100	2	47030	-
C	1 x 47028	1 x 47032	2 x 47036	200	3	47031	-
D	1 x 47029	1 x 47033	2 x 47037	200	4	47032	-
E	2 x 47029	2 x 47033	4 x 47037	200	5	47033	-
					6	47038	47038
					7	47030	47030
					8	47031	47031
					9	47032	47032
					10	47033	47033

* 47038 KONTROL MAKASLARI KULLANILIRKEN 47035 STOPLAMA YERİN E 47034 KULLANILIR. /
WHEN USING 47038 CONTROL FRICTION STAYS, REPLACE 47035 STOPERS WITH 47034 STOPERS.

* MANUEL UYGULAMALAR İÇİN KANATLARIN MAKİMUM AÇILMA MESAFESİ 150 mm 'DİR. /
MAXIMUM OPENING DISTANCE FOR VENTS ARE 150 mm FOR MANUAL APPLICATIONS.

* PARALEL MAKAS FİYATLANDIRMASI İÇİN LÜTFEN SİSTEM ALÜMİNYUM'A BAŞVURUNUZ. /
FOR PARALLEL FRICTION STAY PRICING DETAILS PLEASE CONTACT WITH SİSTEM ALUMINIUM.

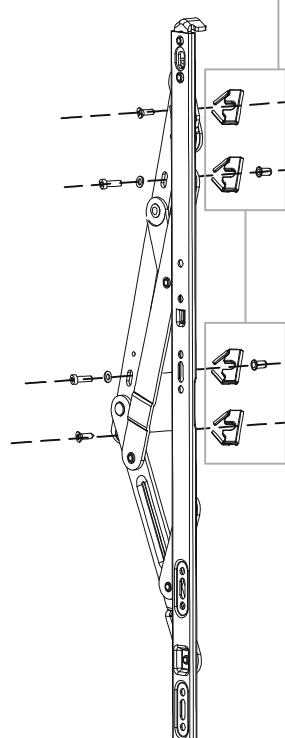
* () PARANTEZ İÇERİSİNDEKİ KODLAR YERLİ AKSESUARLARA AİTTİR.
() CODES INTO THE PARENTHESIS BELONG TO NATIVE ACCESSORIES.

! BU SAYFADA BELİRTİLEN AKSESUAR GÖRSELLERİ TEMSİLİDİR.
! ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

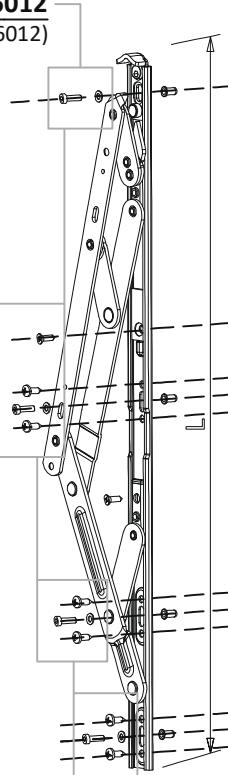
KANAT KİLEME AKSESUARLARI / VENT LOCKING ACCESSORIES

ÜST ÇEKTİRME PARÇASI / TOP FASTENING PIECE: **47020**
(37020)

MAKAS ALTI BEŞLEME TAKOZU : **45007**
FRICTION STAY REINFORCEMENT PLUG (35007)
(OPSİYONEL / OPTIONAL)

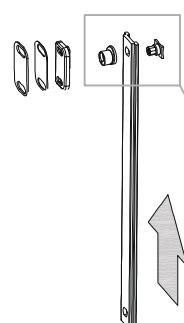


METRİK PERÇİN VE VİDA SETİ : **46012**
METRIC PIN AND SCREW KIT
(OPSİYONEL / OPTIONAL)
(36012)

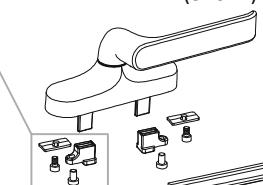


MAKAS BAĞLANTI DETAYI /
CONNECTION DETAIL FOR THE FRICTION STAY

KOL BAĞLANTILARI / HANDLE CONNECTIONS: **47012**
(37012)



CEPHE KOLU : **47011**
FAÇADE HANDLE (37011)



KÖSE DÖNME / CORNER DRIVE: **47018**
(37018)

SABİT PİM / FIXED PIN: **47014**
(37014)

AYARLI PİM / ADJUSTABLE PIN: **47015**
(37015)

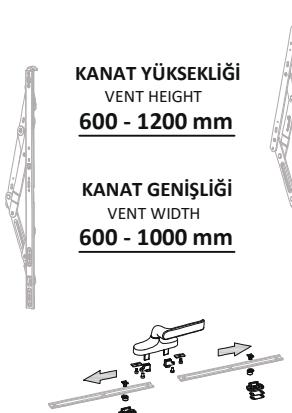
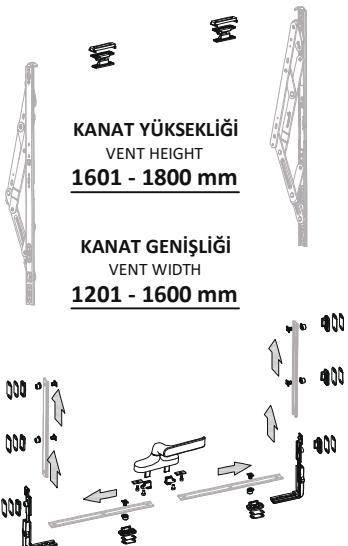
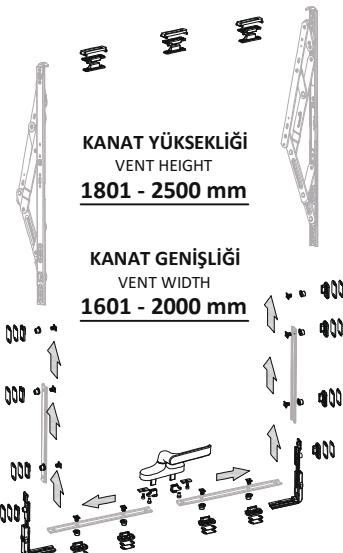
AYARLI KARŞILIK / ADJUSTABLE STRIKER: **47017**
(37017)

SABİT KARŞILIK / FIXED STRIKER: **47016**
(37016)

* () PARANTEZ İÇERİSİNDEKİ KODLAR YERLİ AKSESUARLARA AİTTİR.
() CODES INTO THE PARENTHESIS BELONG TO NATIVE ACCESSORIES.

! BU SAYFADA BELİRTİLEN AKSESUAR GÖRSELLERİ TEMSİLİDİR.
! ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

KANAT KİTLEME SETLERİ / VENT LOCKING KITS

48001 (38001)**48002 (38002)****48003 (38003)****48004 (38004)**

SET KODU / KIT CODE :

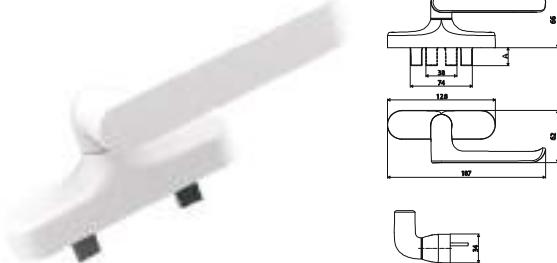
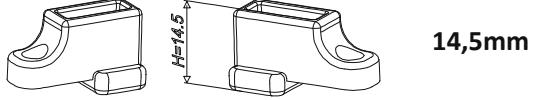
**48001
(38001)****48002
(38002)****48003
(38003)****48004
(38004)**

ÜRÜN KODU PRODUCT CODE	ALTERNATİF YERLİ ÜRÜN KODLARI ALTERNATIVE NATIVE PRODUCT CODES	ÜRÜN ADI PRODUCT NAME	2 NOKTADAN KİTLEME 2 POINTS LOCKING	7 NOKTADAN KİTLEME 7 POINTS LOCKING	10 NOKTADAN KİTLEME 10 POINTS LOCKING	15 NOKTADAN KİTLEME 15 POINTS LOCKING
47011	37011	CEPHE KOLU CURTAIN WALL HANDLE	1 ADET / PCS.	1 ADET / PCS.	1 ADET / PCS.	1 ADET / PCS.
47012	37012	KOL BAĞLANTILARI HANDLE CONNECTIONS	2 ADET / PCS.	2 ADET / PCS.	2 ADET / PCS.	2 ADET / PCS.
47015	37015	AYARLI PİM ADJUSTABLE PIN	2 ADET / PCS.	4 ADET / PCS.	6 ADET / PCS.	10 ADET / PCS.
47017	37017	AYARLI KARŞILIK ADJUSTABLE STRIKER	2 ADET / PCS.	6 ADET / PCS.	8 ADET / PCS.	12 ADET / PCS.
47018	37018	KÖŞE DÖNME CORNER DRIVE	-	2 ADET / PCS.	2 ADET / PCS.	2 ADET / PCS.
47020	37020	ÜST ÇEKİRME PARÇASI TOP FASTENING PIECE	-	1 ADET / PCS.	2 ADET / PCS.	3 ADET / PCS.

* () PARANTEZ İÇERİSİNDEKİ SET KODLARI YERLİ AKSESUARLARA AİTTİR.
() KIT CODES INTO THE PARENTHESIS BELONG TO NATIVE ACCESSORIES.

BU SAYFADA BELİRTİLEN AKSESUAR GÖRSELLERİ TEMSİLİDİR.
● ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

AKSESUARLAR / ACCESSORIES

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	GÖRSELLER / IMAGES
47011 (37011) <i>CEPHE KOLU / FACADE HANDLE</i>	
47051 (37051) <i>ANAHTARLI CEPHE KOLU / FACADE HANDLE WITH KEY</i>	
47052 (37052) <i>SÖKÜLEBİLİR CEPHE KOLU MEKANİZMASI / DETACHABLE FACADE CREMONE MECANISM</i>	
47053 (37053) <i>SÖKÜLEBİLİR CEPHE KOLU SAPI / DETACHABLE FACADE HANDLE</i>	
47012 (37012) <i>CEPHE KOLU BAĞLANTI ELEMANI / FACADE HANDLE FASTENING ELEMENT</i>	
47013 (37013) <i>CEPHE KOLU BAĞLANTI ELEMANI / FACADE HANDLE FASTENING ELEMENT</i>	
47014 (37014) <i>SABİT PİM / FIXED PIN</i>	

() PARANTEZ İÇERİSİNDEKİ KODLAR YERLİ AKSESUARLARA AİTTİR.
 () CODES INTO THE PARENTHESIS BELONG TO NATIVE ACCESSORIES.

! BU SAYFADA BELİRTİLEN AKSESUAR GÖRSELLERİ TEMSİLİDİR.
 ! ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

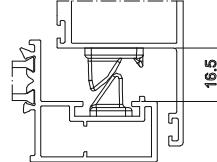
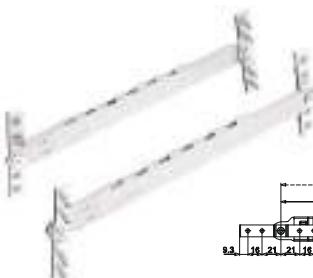
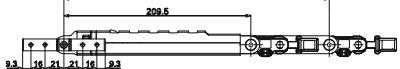
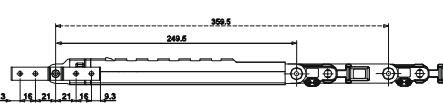
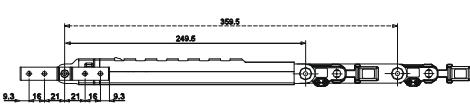
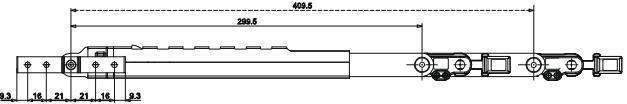
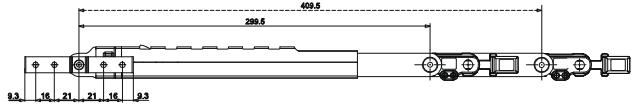
AKSESUARLAR / ACCESSORIES

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	GÖRSELLER / IMAGES
47015 (37015) <i>AYARLI PİM / ADJUSTABLE PIN</i>	
47016 (37016) <i>SABİT KARŞILIK / FIXED STRIKER</i>	
47017 (37017) <i>AYARLI KARŞILIK / ADJUSTABLE STRIKER</i>	
47018 (37018) <i>KÖŞE DÖNÜŞ AKTARMA PARÇASI / CORNER TRANSFER DEVICE</i>	
47019 (37019) <i>CEPHE MAKASLARI İÇİN YÜKSEKLİK AYAR PARÇASI / HEIGHT ADJUSMENT PIECE FOR FRICTION STAYS</i>	

* () PARANTEZ İÇERİSİNDEKİ KODLAR YERLİ AKSESUARLARA AİTTİR.
 () CODES INTO THE PARENTHESIS BELONG TO NATIVE ACCESSORIES.

! BU SAYFADA BELİRTİLEN AKSESUAR GÖRSELLERİ TEMSİLDİR.
 ! ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

AKSESUARLAR / ACCESSORIES

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	GÖRSELLER / IMAGES
47020 (37020) <i>ÜST ÇEKİRME PARÇASI / TOP FASTENING PIECE</i>	 
47021 (37021) <i>LİMİTLEME MAKASI / LIMITOR ARM</i>	
47023 (37023) <i>TELESKOPİK MAKAS (KÜÇÜK) / TELESCOPIC ARM (SMALL)</i>	 
47024 (37024) <i>TELESKOPİK MAKAS (ORTA) / TELESCOPIC ARM (MEDIUM)</i>	 
47025 (37025) <i>TELESKOPİK MAKAS (BÜYÜK) / TELESCOPIC ARM (LARGE)</i>	 

* () PARANTEZ İÇERİSİNDEKİ KODLAR YERLİ AKSESUARLARA AİTTİR.
 () CODES INTO THE PARENTHESIS BELONG TO NATIVE ACCESSORIES.

! BU SAYFADA BELİRTİLEN AKSESUAR GÖRSELLERİ TEMSİLİDİR.
 ! ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

AKSESUARLAR / ACCESSORIES

AKSESUAR KODU VE GÖRSELİ / ACCESSORY CODE AND IMAGE	TEKNİK ÖZELLİKLER / TECHNICAL SPECIFICATIONS
<p>47039 - SİYAH / BLACK 47040 - GRİ / GRAY VASİSTAS VE İŞIKLIK KANATLARI İÇİN AÇMA MOTORU / OPENING MOTOR FOR BOTTOM-HUNG & SKYLIGHT VENTS</p>	<p>ALUTECH SMART (230V AC) MOTOR</p> <p>Ayarlanabilir Açılmış Mesafesi : 180 mm ile 380 mm İtme Gücü: 200 N Çekme Gücü: 250 N Çalışma Hızı: 18 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot: 50 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelerde ...: 38 kg Kanat Eni: 600 - 1250 mm Maksimum Kanat Boyu: 2600 mm</p>
<p>47041 - SİYAH / BLACK 47042 - GRİ / GRAY VASİSTAS VE İŞIKLIK KANATLARI İÇİN AÇMA MOTORU / OPENING MOTOR FOR BOTTOM-HUNG & SKYLIGHT VENTS</p>	<p>ALUTECH SMART (24V DC) MOTOR</p> <p>Ayarlanabilir Açılmış Mesafesi : 180 mm ile 380 mm İtme Gücü: 200 N Çekme Gücü: 250 N Çalışma Hızı: 18 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot: 50 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelerde ...: 38 kg Kanat Eni: 600 - 1250 mm Maksimum Kanat Boyu: 2600 mm</p>
<p>47043 - SİYAH / BLACK 47044 - GRİ / GRAY PARALEL, VASİSTAS VE İŞIKLIK KANATLARI İÇİN MOTOR / MOTOR FOR PARALLEL, BOTTOM-HUNG & SKYLIGHT VENTS</p>	<p>ALUTECH LIVIN L25 (230V AC) MOTOR</p> <p>Ayarlanabilir Açılmış Mesafesi : 200 mm ile 380 mm İtme Gücü: 250 N Çekme Gücü: 250 N Çalışma Hızı: 18 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot: 60 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelerde ...: 45 kg Kanat Eni: 450 - 1250 mm Maksimum Kanat Boyu: 2600 mm</p>
<p>47045 - SİYAH / BLACK 47046 - GRİ / GRAY PARALEL, VASİSTAS VE İŞIKLIK KANATLARI İÇİN MOTOR / MOTOR FOR PARALLEL, BOTTOM-HUNG & SKYLIGHT VENTS</p>	<p>ALUTECH LIVIN L35 (24V DC) MOTOR</p> <p>Ayarlanabilir Açılmış Mesafesi : 200 mm ile 380 mm İtme Gücü: 250 N Çekme Gücü: 250 N Çalışma Hızı: 18 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot: 80 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelerde ...: 65 kg Kanat Eni: 450 - 1250 mm Maksimum Kanat Boyu: 2600 mm</p>
<p>47047 - GRİ / GRAY PARALEL, VASİSTAS VE İŞIKLIK KANATLARI İÇİN MOTOR / MOTOR FOR PARALLEL, BOTTOM-HUNG & SKYLIGHT VENTS</p>	<p>ALUTECH FAST 50 (230V AC) MOTOR</p> <p>Ayarlanabilir Açılmış Mesafesi : 300 mm İtme Gücü: 500 N Çekme Gücü: 500 N Çalışma Hızı: 23 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot: 160 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelerde ...: 90 kg Kanat Eni: 200 - 1250 mm Maksimum Kanat Boyu: 2600 mm</p>

* () PARANTEZ İÇERİSİNDEKİ KODLAR YERLİ AKSESUARLARA AİTTİR.
 () CODES INTO THE PARENTHESIS BELONG TO NATIVE ACCESSORIES.

! BU SAYFADA BELİRTİLEN AKSESUAR GÖRSELLERİ TEMSİLDİRDİR.
 ! ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

AKSESUARLAR / ACCESSORIES

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	GÖRSELLER / IMAGES
47048 - GRİ / GRAY <i>PARALEL, VASİTAS VE İŞIKLIK KANATLARI İÇİN MOTOR / MOTOR FOR PARALLEL, BOTTOM-HUNG & SKYLIGHT VENTS</i> 	ALUTECH AIRWIN A 65 (230V AC) MOTOR Ayarlanabilir Açılmış Mesafesi : 550 mm İtme Gücü: 650 N Cekme Gücü: 650 N Çalışma Hızı: 10 mm/sec Maks.Kanat Ağırlığı-Vasıtalar ve Pivot: 120 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencelerde: 120 kg Kanat Eni: 200 - 1250 mm Maksimum Kanat Boyu: 2600 mm
47049 <i>ALUTECH GNS 02A - 2 KANAL UZAKTAN KUMANDA / ALUTECH GNS 02A - 2 CHANNEL REMOTE CONTROL</i>	
47050 <i>ALUTECH GNS 202 / 220V - UZAKTAN KUMANDA ALICISI / ALUTECH GNS 202 / 220V - REMOTE CONTROL RECEIVER</i>	

* () PARANTEZ İÇERİSİNDEKİ KODLAR YERLİ AKSESUARLARA AİTTİR.
() CODES INTO THE PARENTHESIS BELONG TO NATIVE ACCESSORIES.

! BU SAYFADA BELİRTİLEN AKSESUAR GÖRSELLERİ TEMSİLİDİR.
! ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

MONTAJ TALİMATLI AKSESUARLAR

ACCESSORIES WITH FABRICATION MANUAL

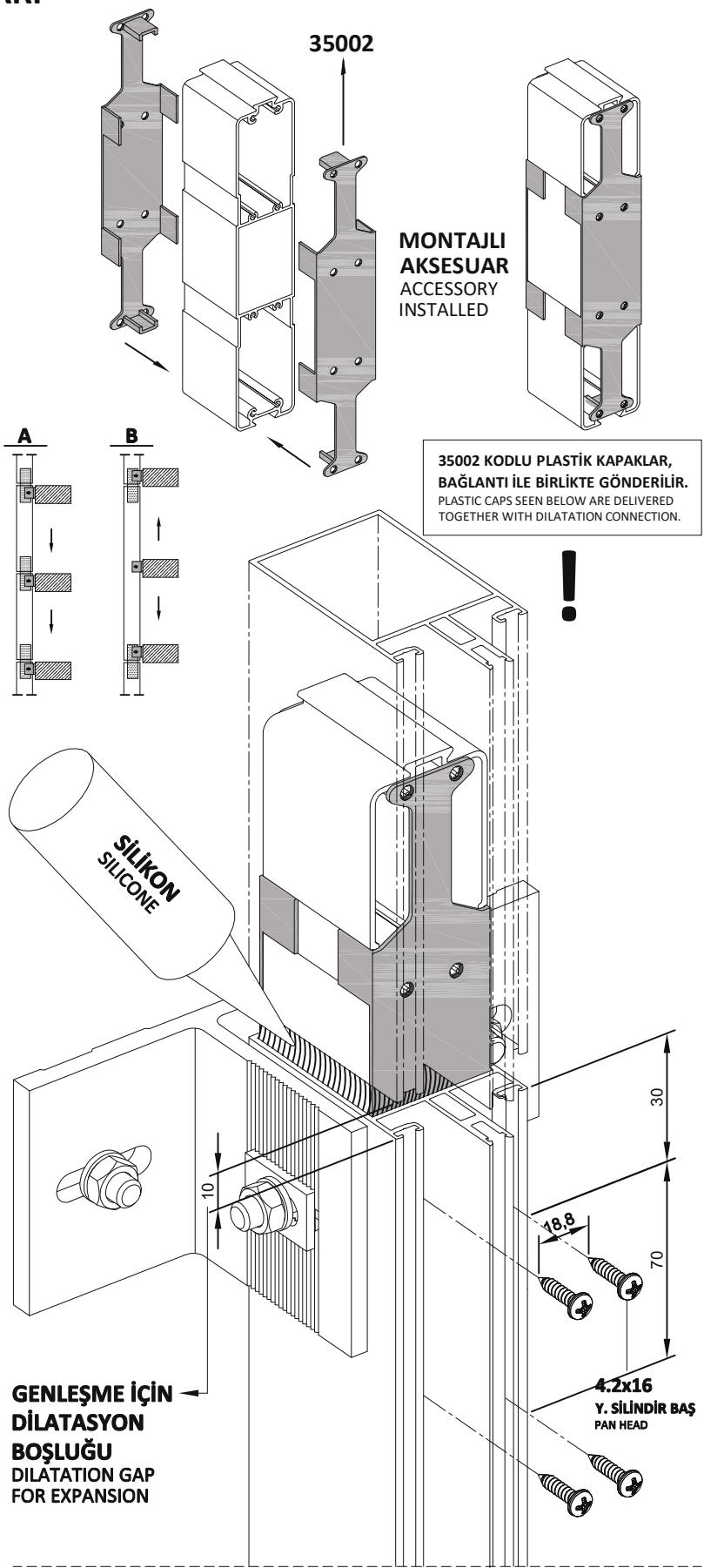
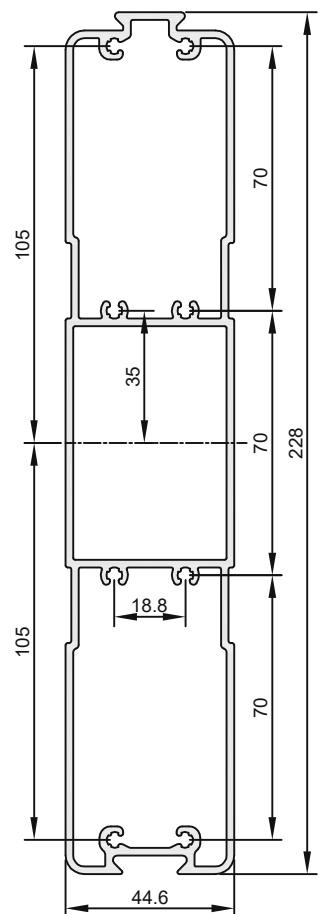
1. DİLATASYON BAĞLANTILARI /
DILATATION CONNECTIONS
2. U BAĞLANTILARI / U CONNECTIONS
3. YATAY KAYIT CONTALARI /
TRANSOM CONNECTION PLUGS
4. KONDENS YOLU İÇİN BAĞLANTI PARÇASI
CON. PIECE FOR THE CONDENSATION LINE
5. ÇÖRTEN / WATERSPOUT
6. CAM ALTı DESTEK PARÇALARI /
GLAZING SUPPORT PIECES
7. KANAT İÇİN CAM ALTı DESTEK PARÇALARI /
GLAZING SUPPORT PIECES FOR VENT
8. STANDART CAM ARASI KİMLEME PARÇALARI /
LOCKING PIECES FOR THE STANDARD SPACER
9. SICAK KENAR ÇITALI KİMLEME PARÇALARI /
LOCKING PIECES FOR WARM EDGE SPACER
10. VULKANİZE İÇ KÖŞE PARÇALARI /
VULCANISED INNER CORNER PIECES
11. TAHLİYE DELİK ŞEMALARI /
SCHEMAS OF THE DRAINAGE HOLES
12. ANKRAJLAR /
ANCHORAGES
13. GÜNEŞ KIRICI TAŞIYICI APARATI /
CARRIER APPARATUS FOR SUNBREAKER
14. KÖŞE TAKOZU BİRLEŞİM DETAYLARI /
CORNER CLEAT CONECTION DETAILS

► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
SİSTEM ALÜMİNYUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

DİLATASYON BAĞLANTILARI

DILATATION CONNECTIONS

AKSESUAR KODU ACCESSORY CODE	KESİM ÖLÇÜSÜ CUTTING DIMENSION
31017	17,5 mm
31018	32,5 mm
31019	52,5 mm
31020	72,5 mm
31021	92,5 mm
31022	91,5 mm
31023	112 mm
31024	110 mm
31025	132 mm
31026	129,5 mm
31027	151,5 mm
31028	149 mm
31029	171,5 mm
31030	169 mm
31031	190 mm
31032	187 mm

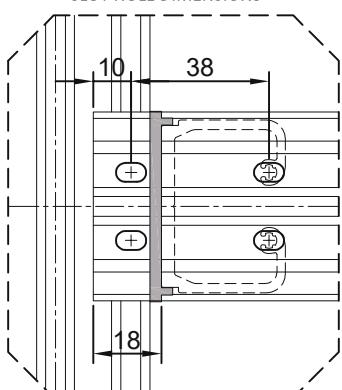


U BAĞLANTILAR U CONNECTIONS

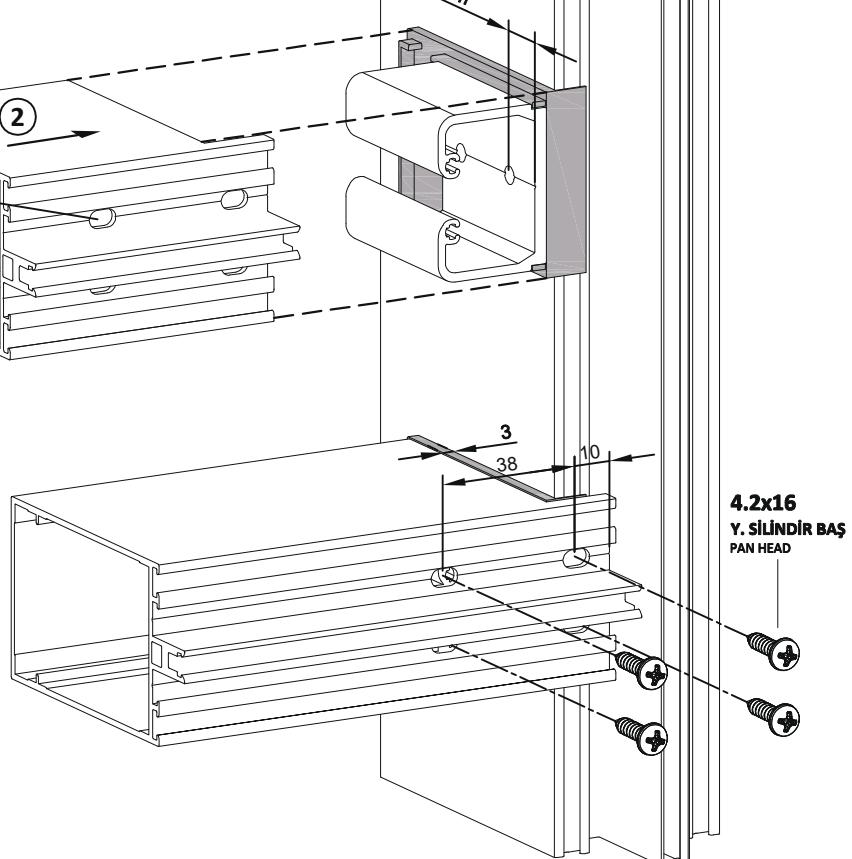
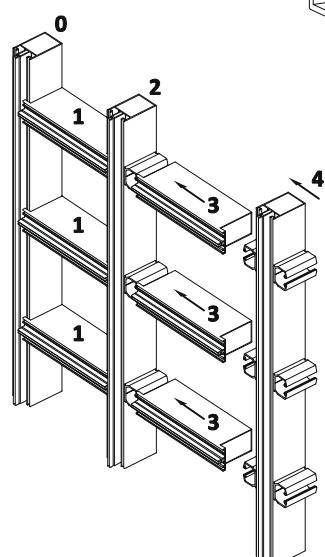
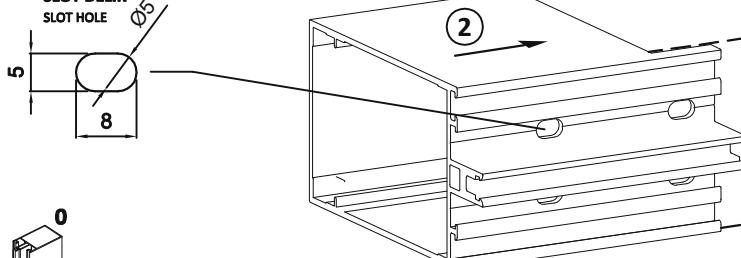
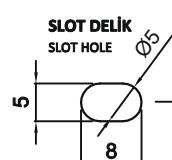
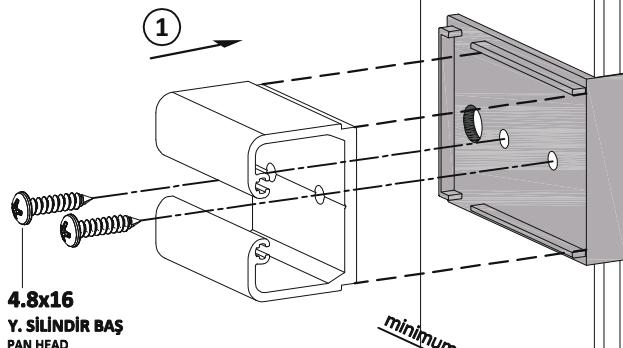
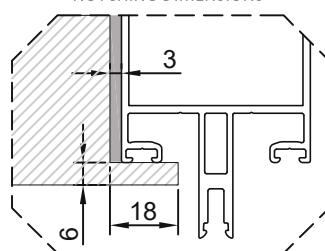
AKSESUAR KODU ACCESSORY CODE	KESİM ÖLÇÜSÜ CUTTING DIMENSION
31033	12 mm
31034	32 mm
31035	42 mm
31036	52 mm
31037	59,4 mm
31038	79,4 mm
31039	99,4 mm
31040	119,4 mm
31041	139,4 mm
31042	159,4 mm
31043	178 mm
31044	210 mm

FP506 (1,040 kg/m.)

SLOT DELİK ÖLÇÜLERİ
SLOT HOLE DIMENSIONS



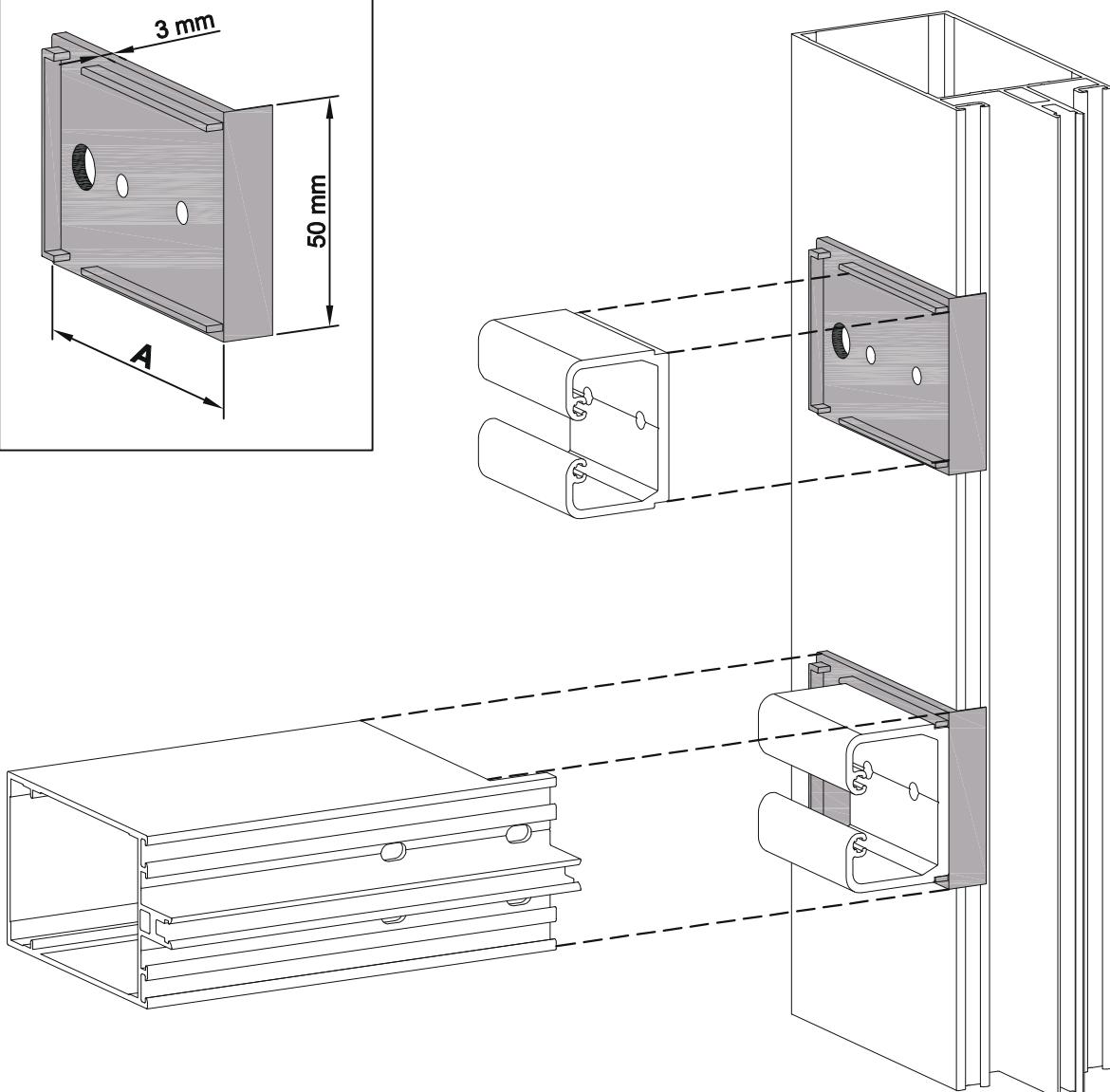
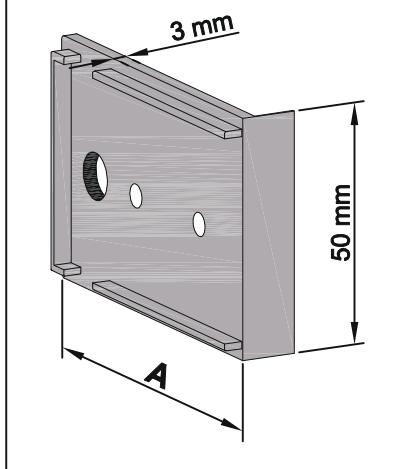
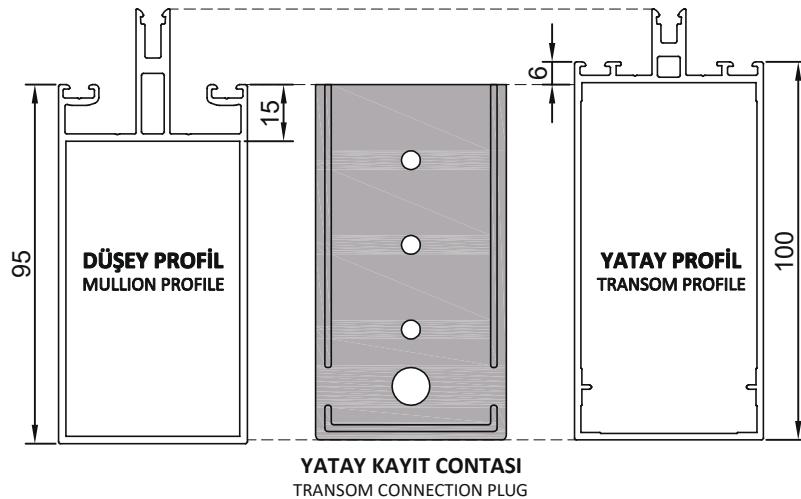
KERTME ÖLÇÜLERİ
NOTCHING DIMENSIONS



YATAY KAYIT CONTALARI

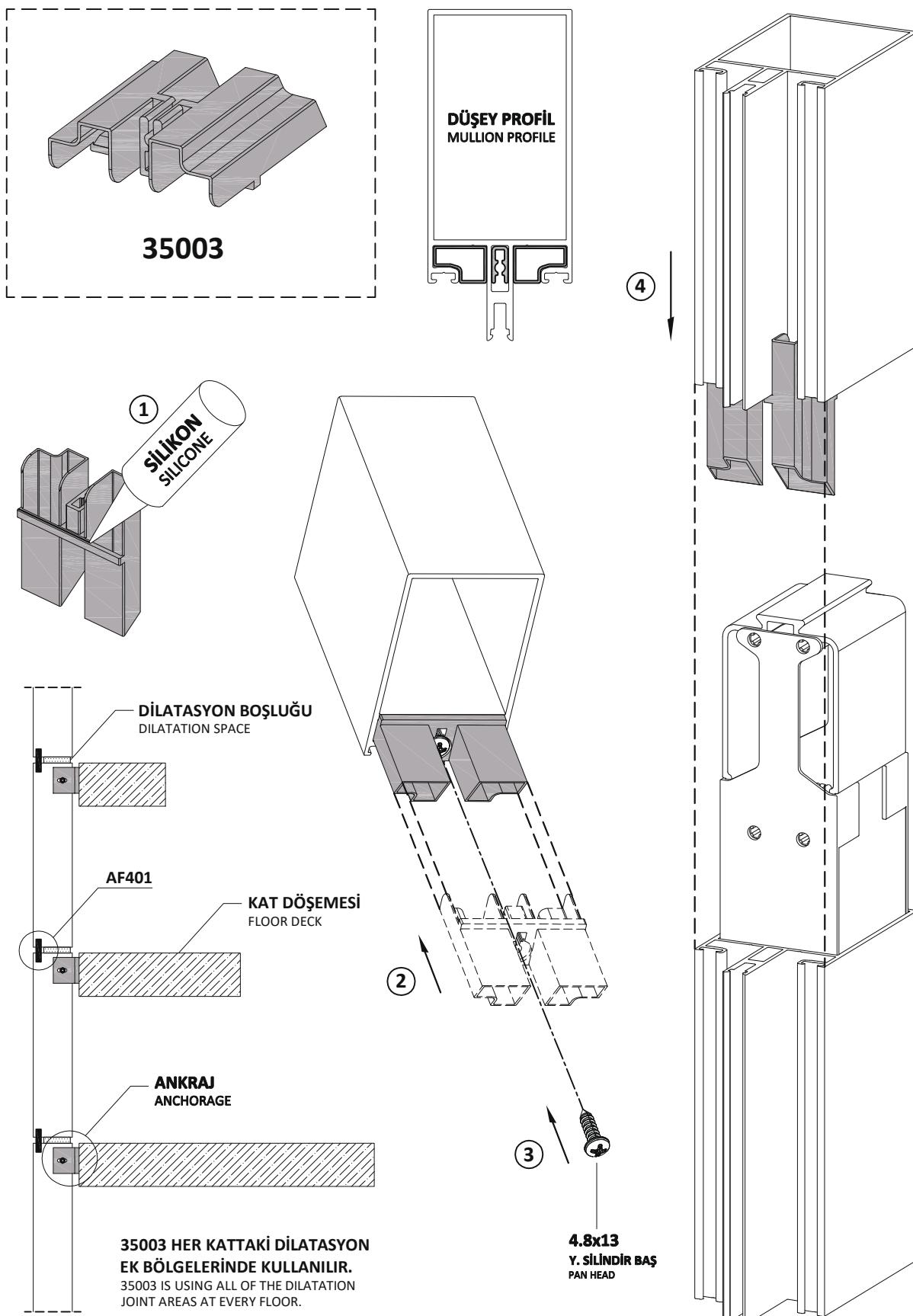
TRANSOM CONNECTION PLUGS

AKSESUAR KODU ACCESSORY CODE	A (mm)
33004	20 mm
33005	40 mm
33006	60 mm
33007	80 mm
33008	100 mm
33009	120 mm
33010	140 mm
33011	160 mm
33012	180 mm
33013	200 mm
33014	220 mm

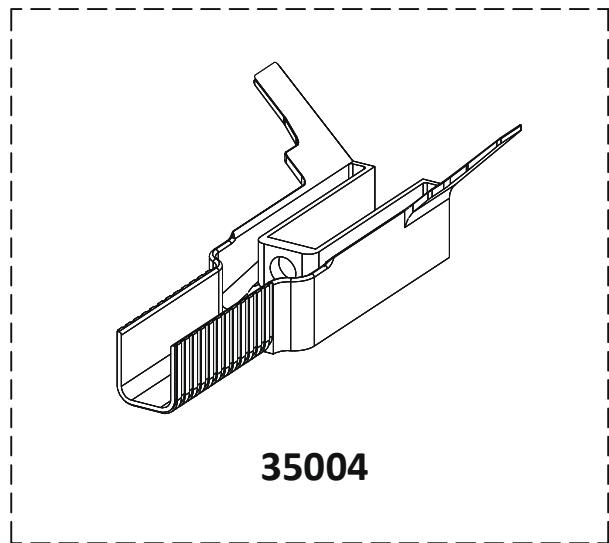


KONDENS YOLU İÇİN BAĞLANTI PARÇASI

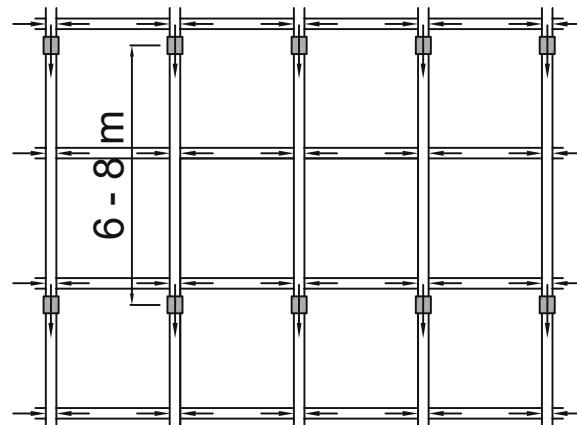
CONNECTION PIECE FOR THE CONDENSATION LINE



ÇÖRTEN (YÜKSEK KATLI YAPILAR İÇİN)
WATERSPOUT (FOR ONLY HIGH BUILDINGS)

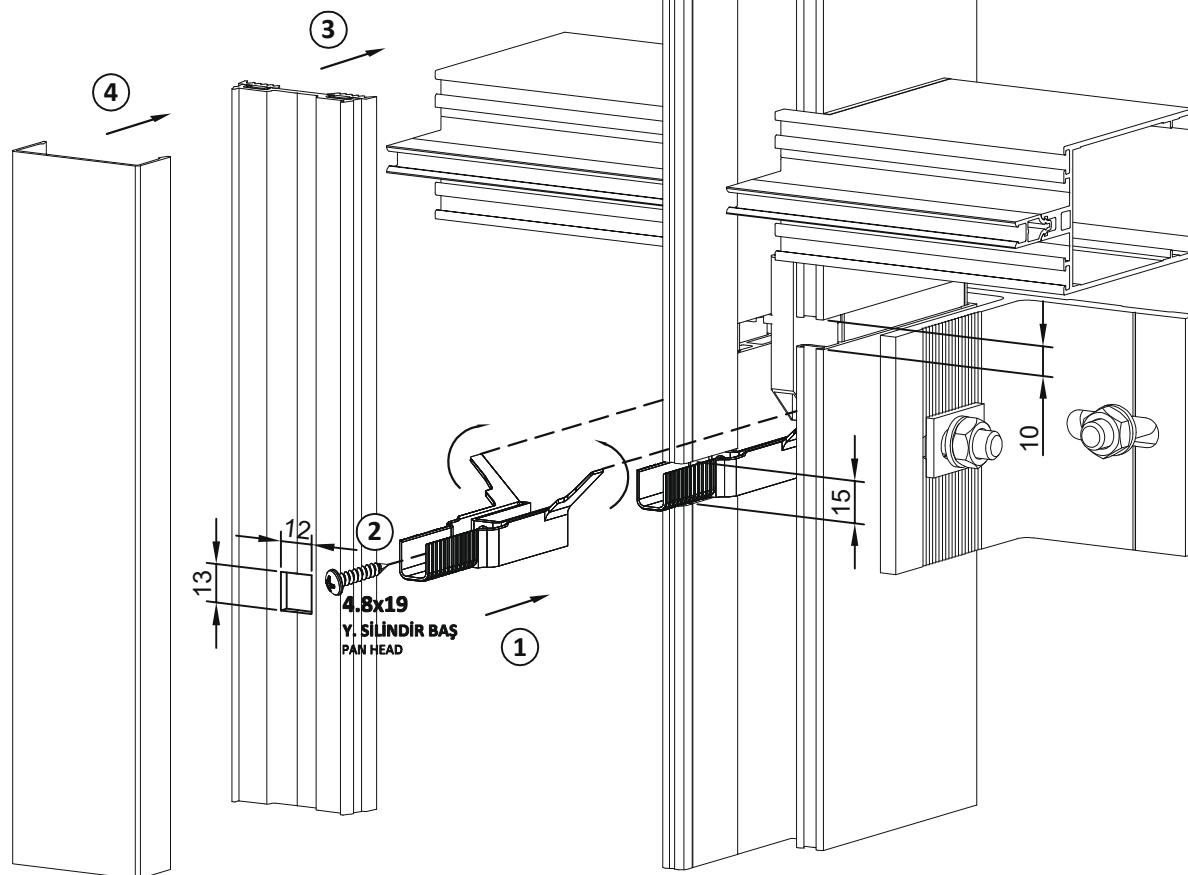


35004

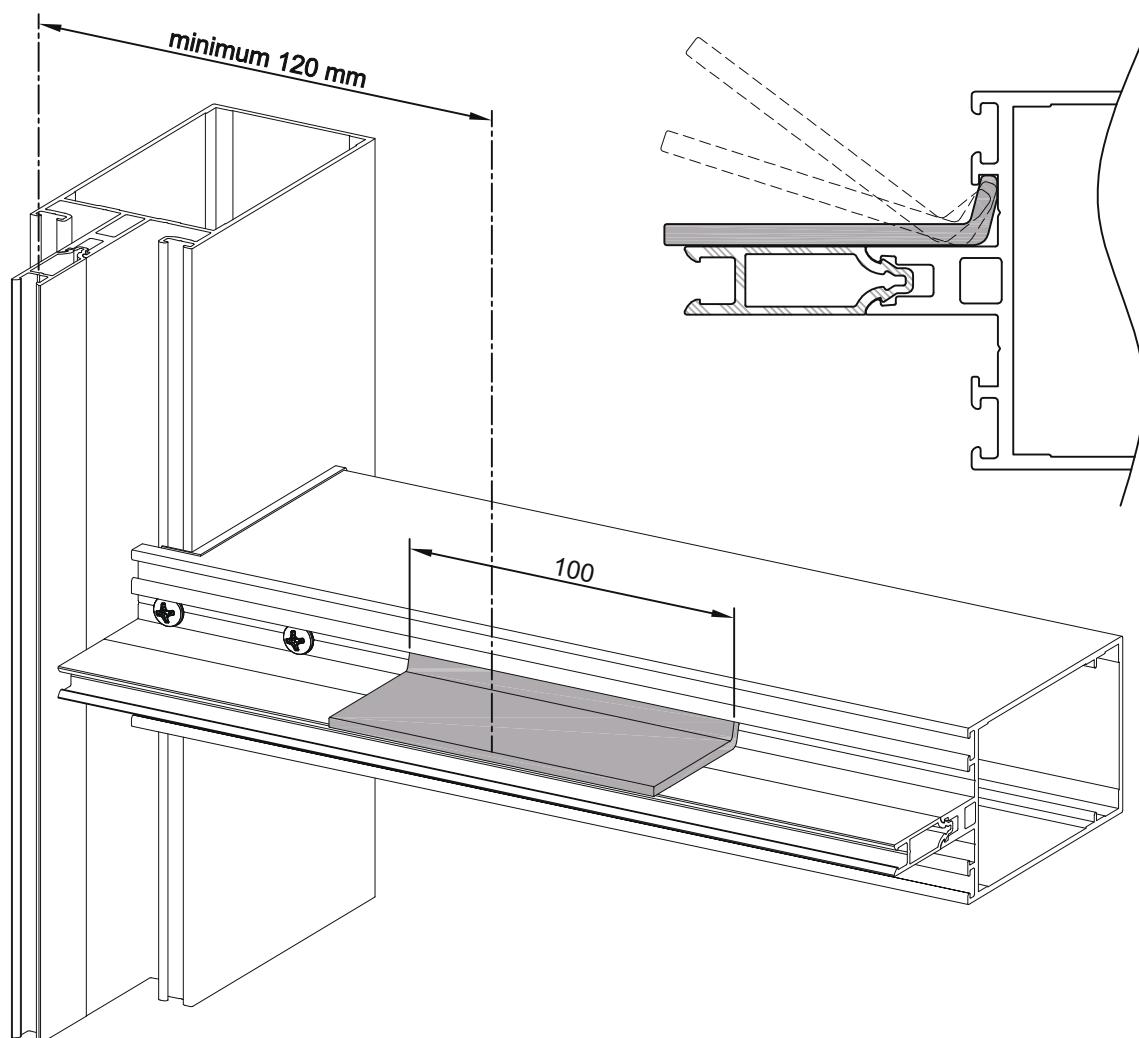
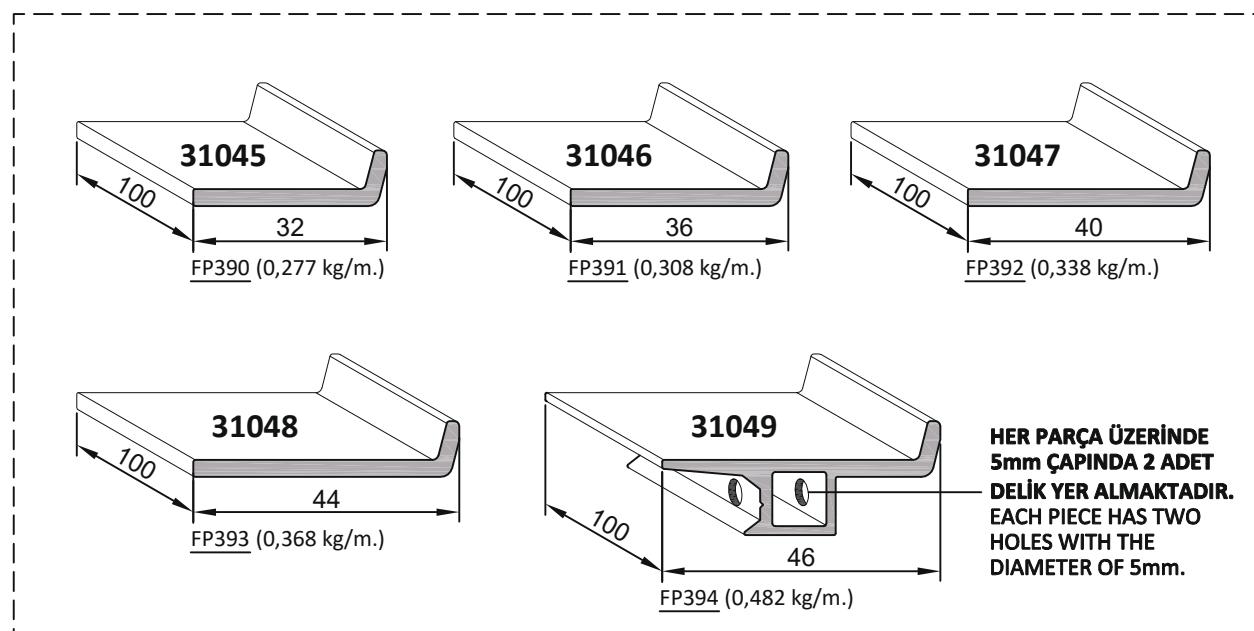


60 METRE BİNA YÜKSEKLİĞİNDEN SONRA HER İKİ KATTA BİR UYGULANMASI TAVSİYE EDİLİR.
USING ONE AT EACH TWO FLOORS AFTER THE BUILDING HEIGHT OF 60 METERS RECOMMENDED.

ÇÖRTEN, ÜSTTEN Veya ALTtan SÜRÜLEREK TAKILABİLDİĞİ GİBİ DİŞ TARAFTAN KULAKLARI EĞİLEREK EN SONRA DA TAKILABİLİR.
WATERSPOUT CAN BE INSTALLED AT TOP OR BOTTOM THROUGH TO THE CONDENSATION CHANNELS. ALSO IT CAN BE INSTALLED FROM OUTSIDE AT LAST.

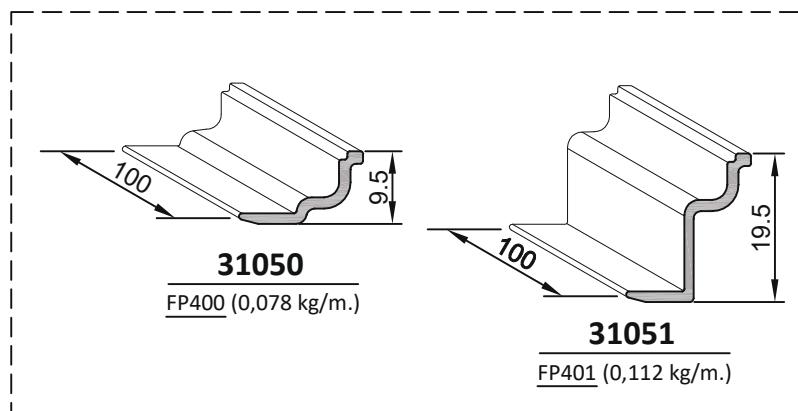


CAM ALTI DESTEK PARÇALARI GLAZING SUPPORT PIECES

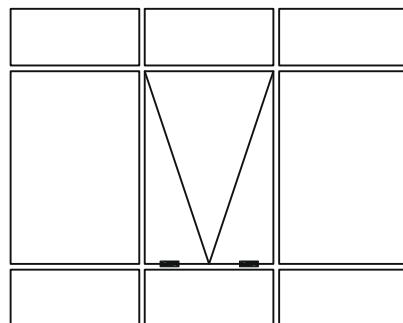
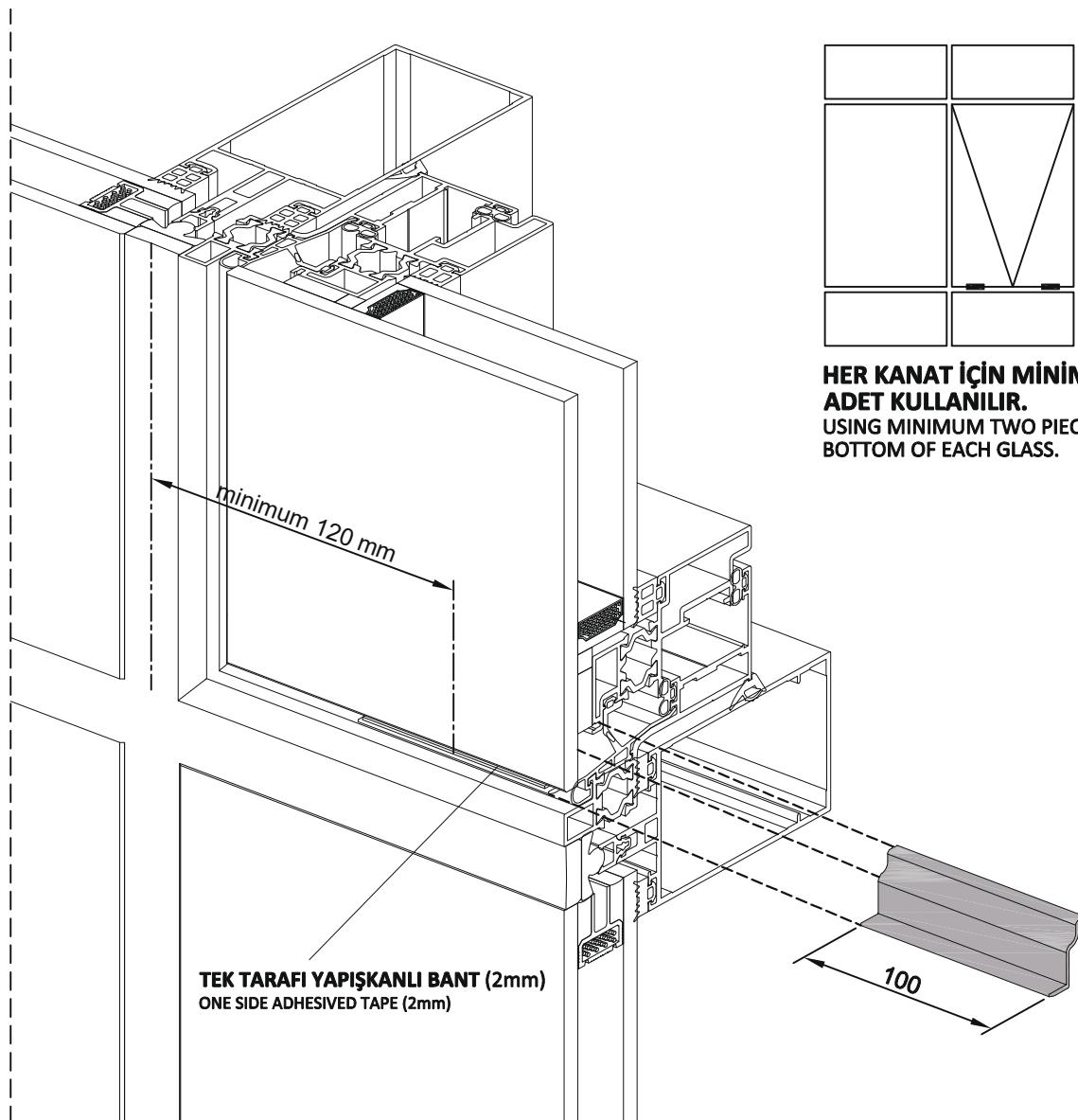


KANAT İÇİN CAM ALTI DESTEK PARÇALARI

GLAZING SUPPORT PIECES FOR VENT

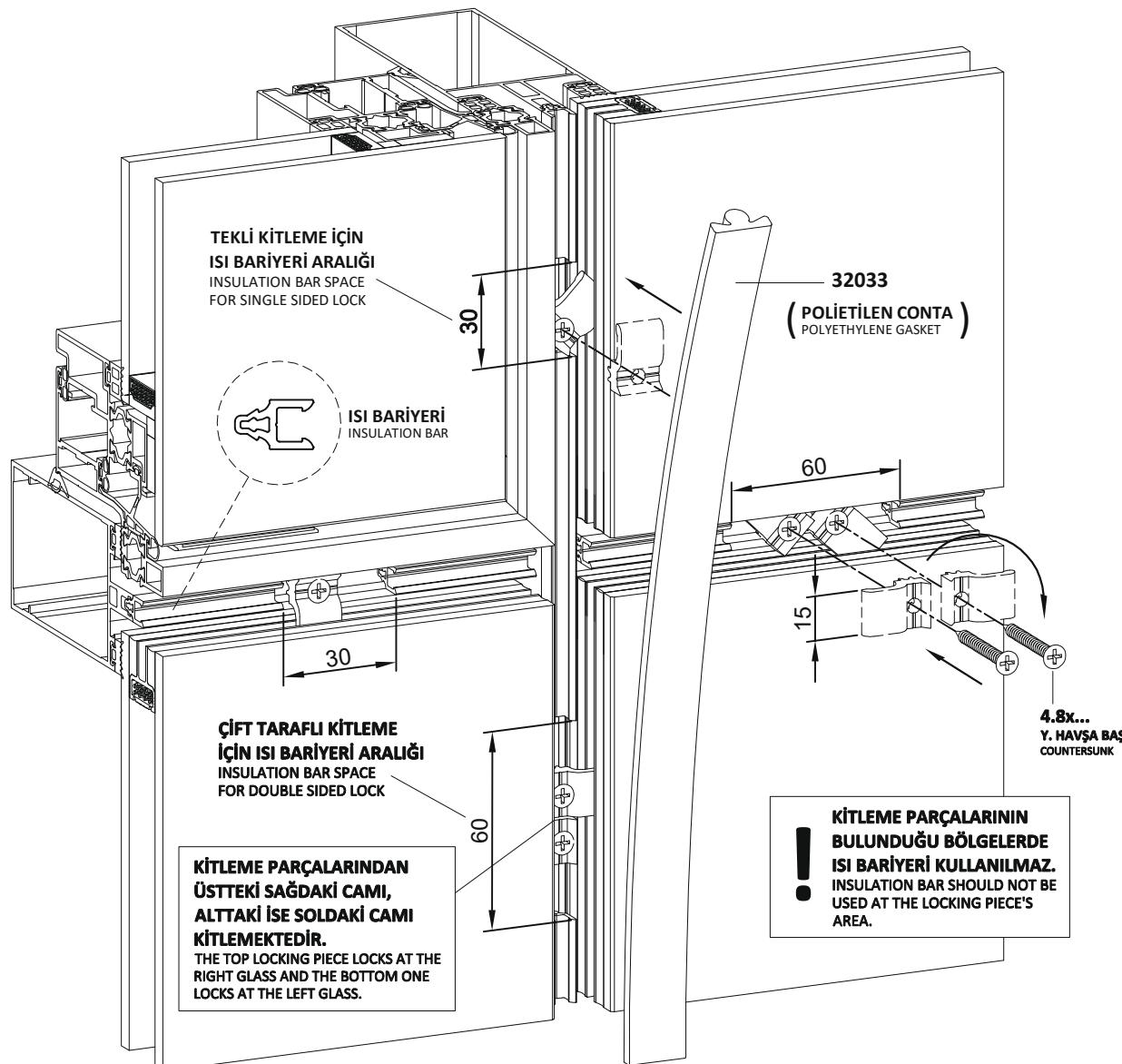
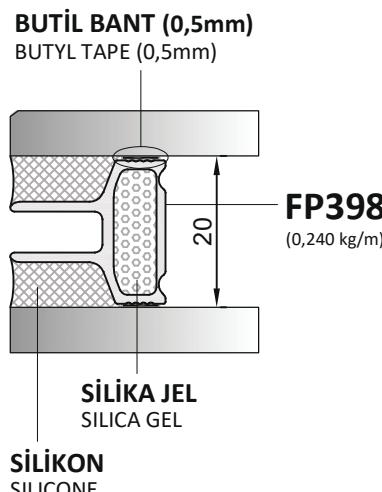
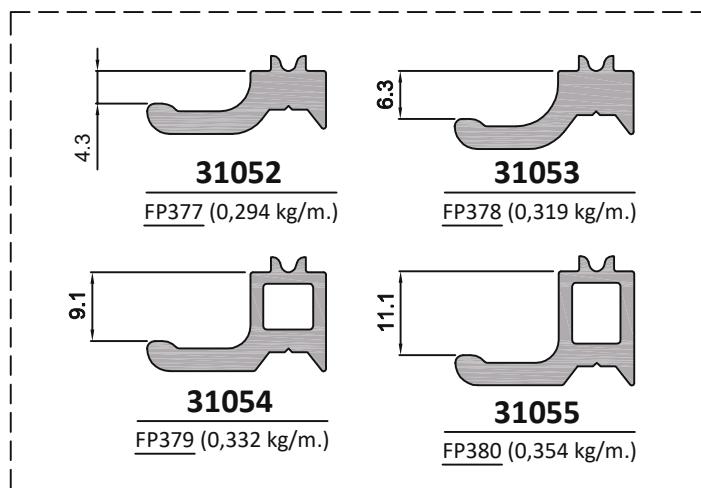


**CAM ALTI DESTEK
PARÇALARI, KANAT
KÖŞELERİ PRESLENMEDEN
ÖNCE TAKILMALIDIR.
GLAZING SUPPORTS SHOULD BE
INSTALLED BEFORE THE CORNER
CLEAT JOINTS OF VENT APPLIED.**



**HER KANAT İÇİN MİNİMUM İKİŞER
ADET KULLANILIR.
USING MINIMUM TWO PIECES AT THE
BOTTOM OF EACH GLASS.**

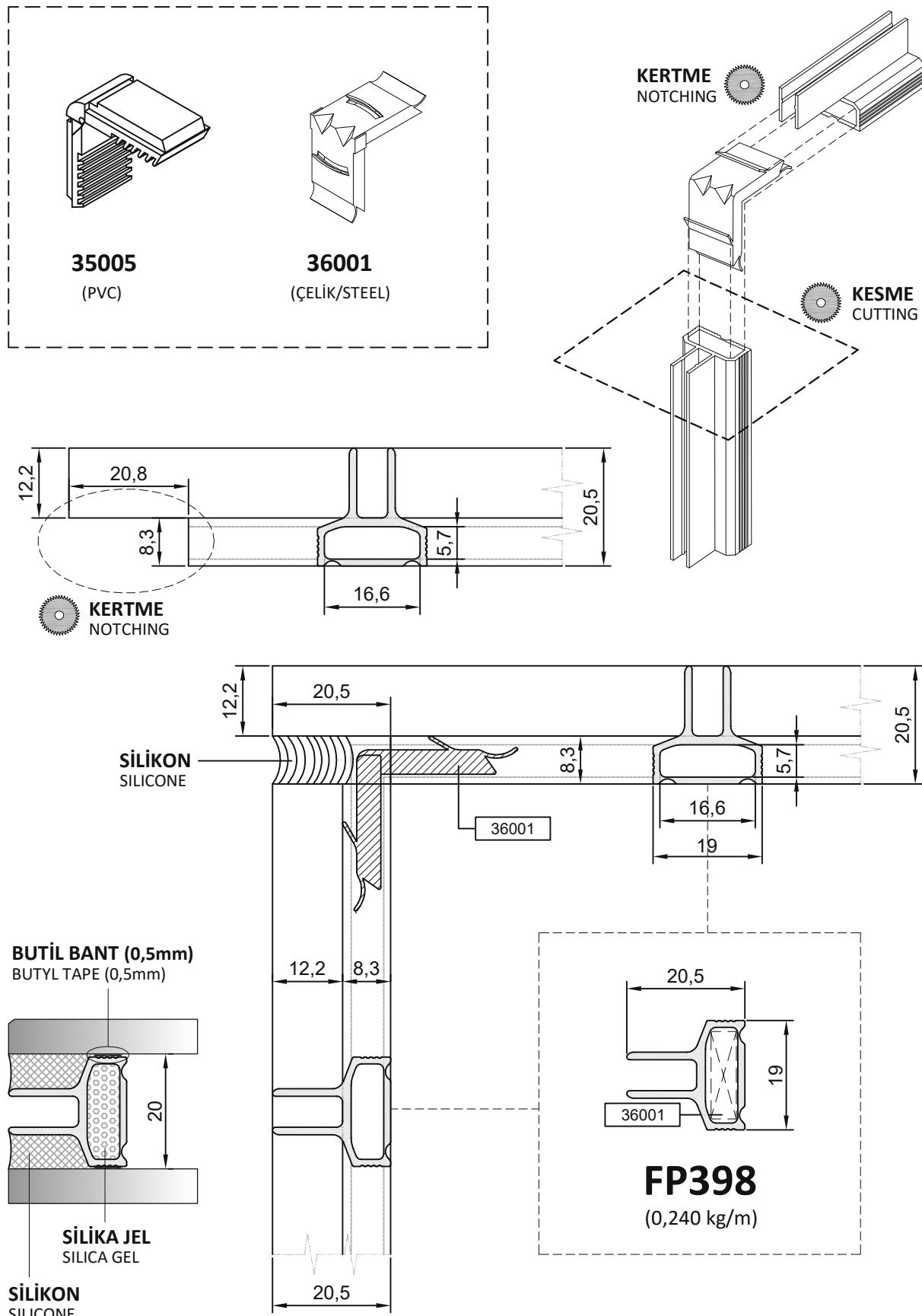
STANDART 20mm ISICAM ÇITALI CAM ARASI KİTLEME PARÇALARI LOCKING PIECES FOR THE STANDARD 20mm DOUBLE GLAZED GLASS SPACER



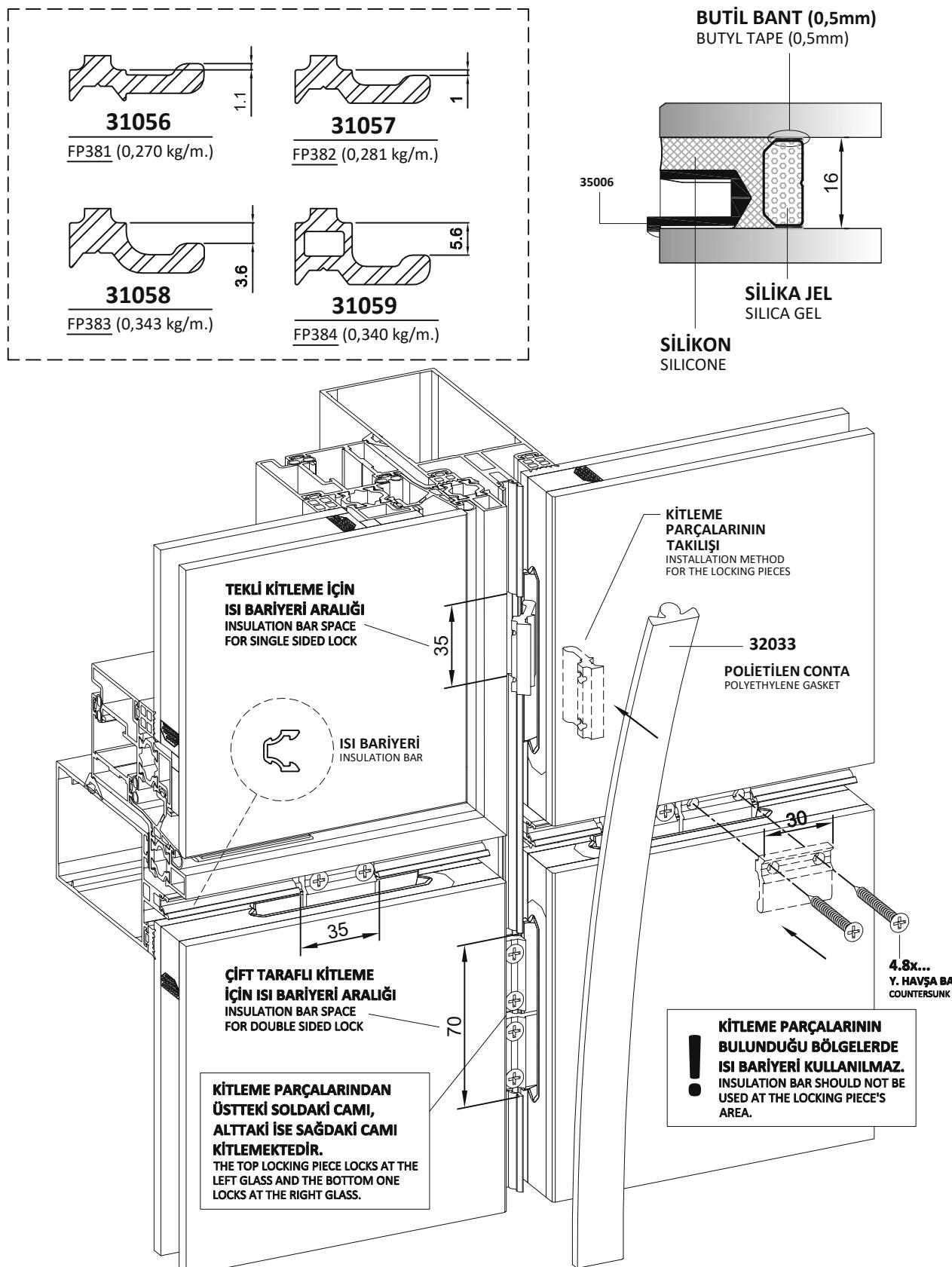
AYNI CAM MODÜLÜNDEKİ KİTLEMELER ARASI MESAFE YAKLAŞIK 30 CM OLMALIDIR.
DISTANCE BETWEEN LOCKING PIECES SHOULD BE APPROXIMATELY 30 CM AT THE SAME GLASS MODULE.

STANDARD 20mm ISICAM ÇITASI İÇİN KÖŞE BİRLEŞTİRME METODU

CORNER CONNECTION METHOD FOR THE STANDARD 20mm DOUBLE GLAZED GLASS SPACER

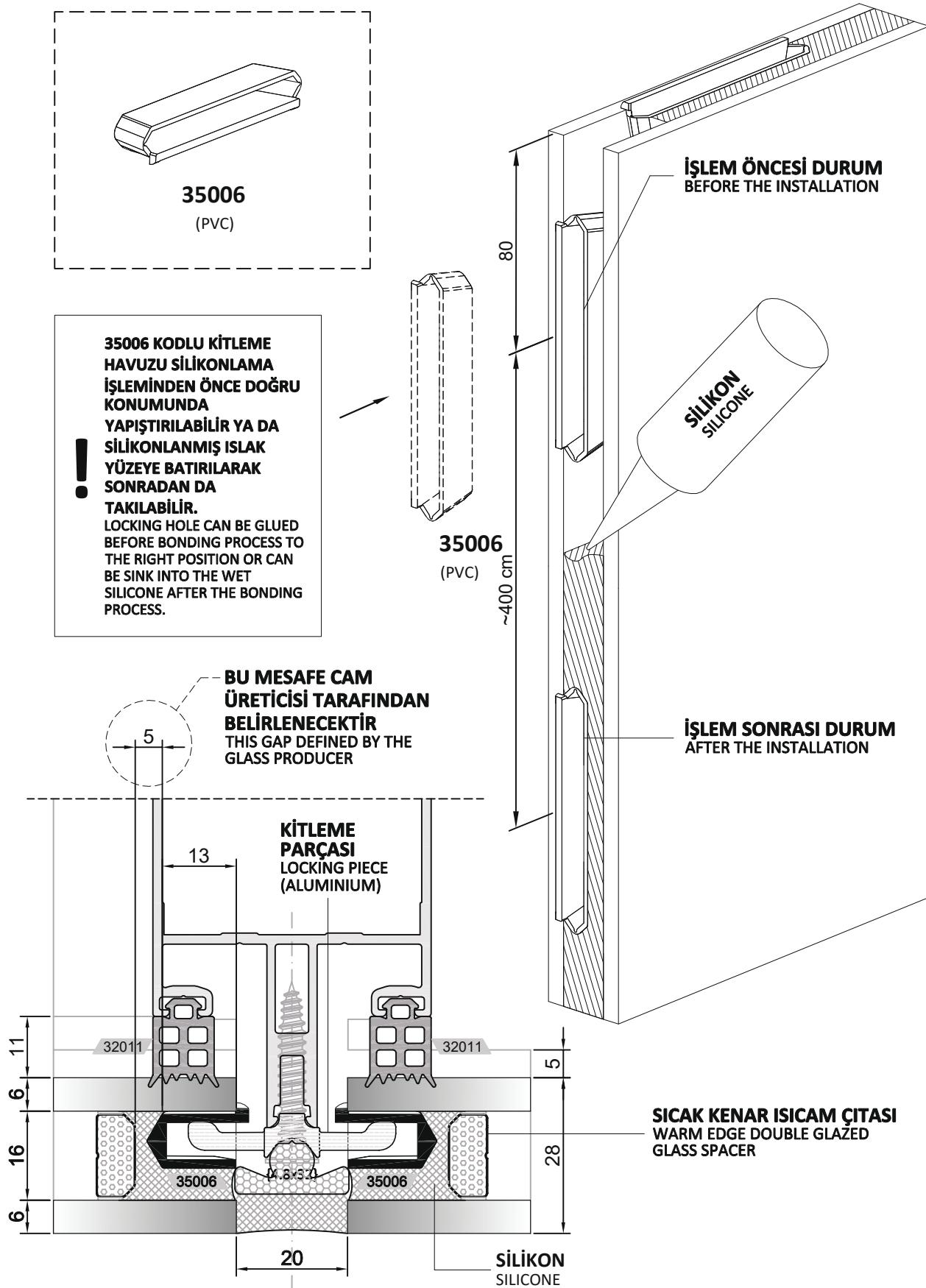


16mm SICAK KENAR ISICAM ÇITALI CAM ARASI KİLEME PARÇALARI LOCKING PIECES FOR 16mm WARM EDGE DOUBLE GLAZED GLASS SPACER

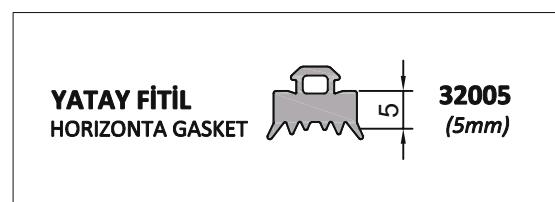
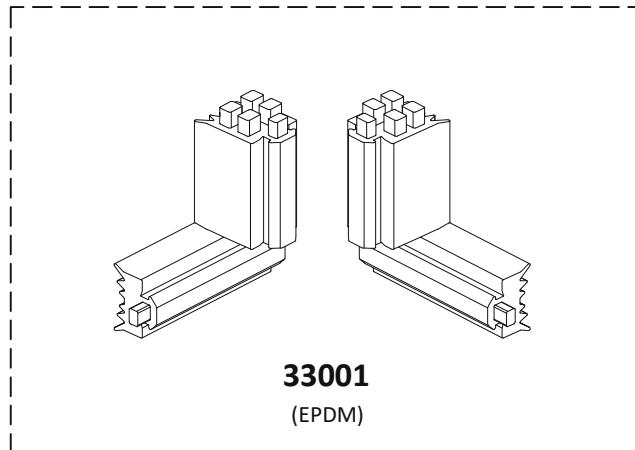


16mm SICAK KENAR ISICAM ÇITASI İÇİN CAM ARASI KİTLEME HAVUZU

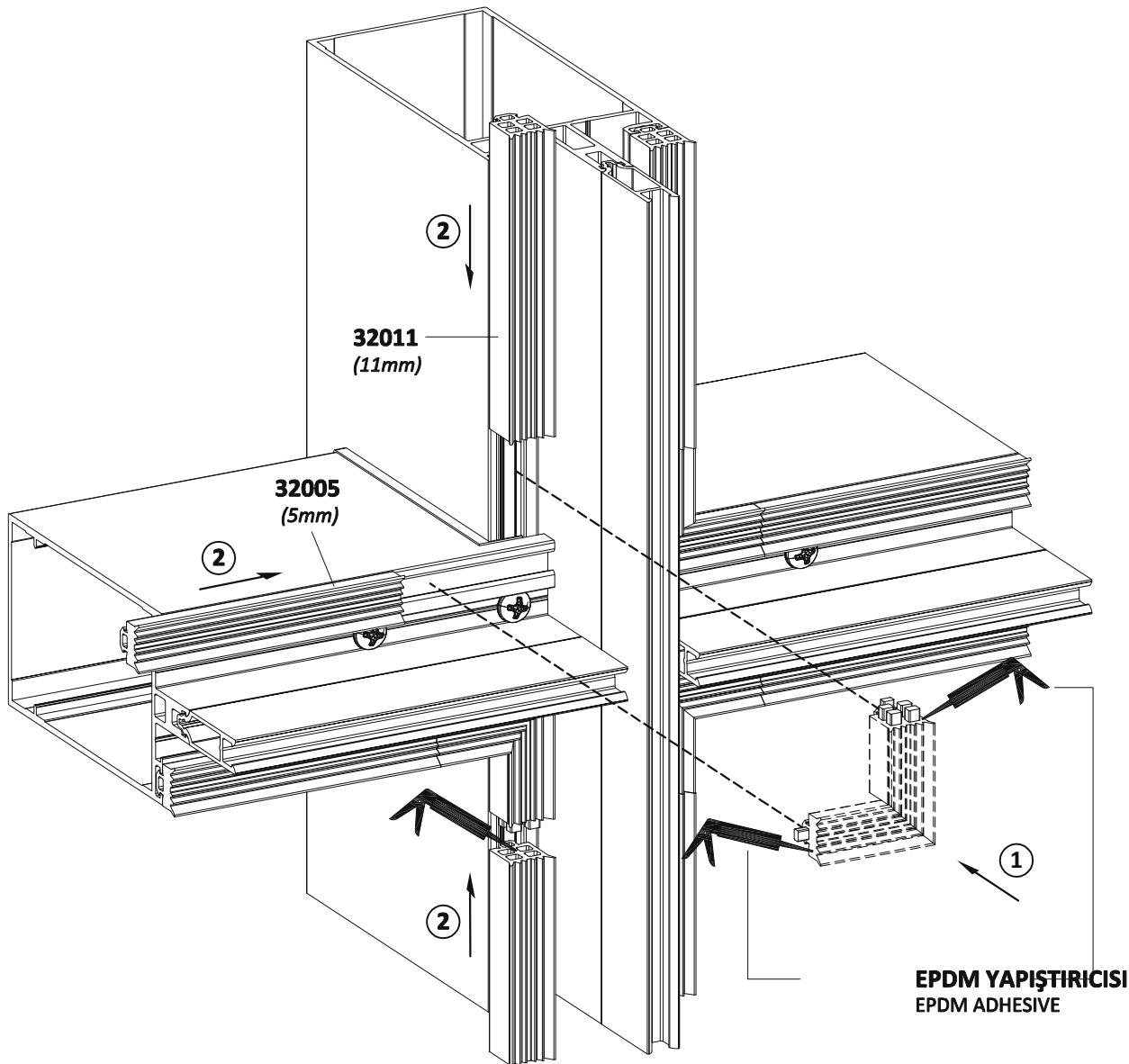
LOCKING HOLE FOR 16mm WARM EDGE DOUBLE GLAZED GLASS SPACER



VULKANİZE İÇ KÖŞE PARÇALARI VULCANISED INNER CORNER PIECES

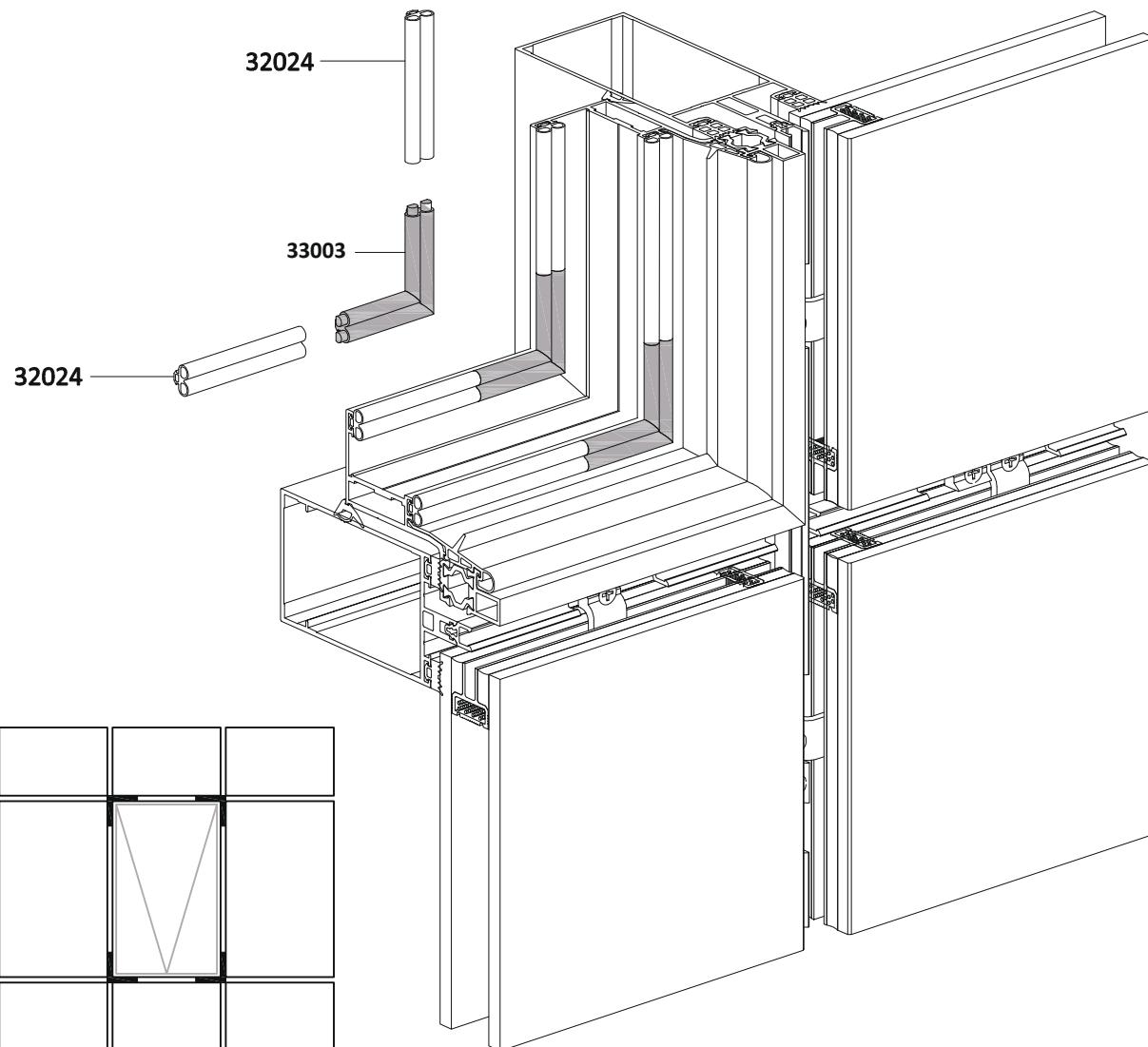
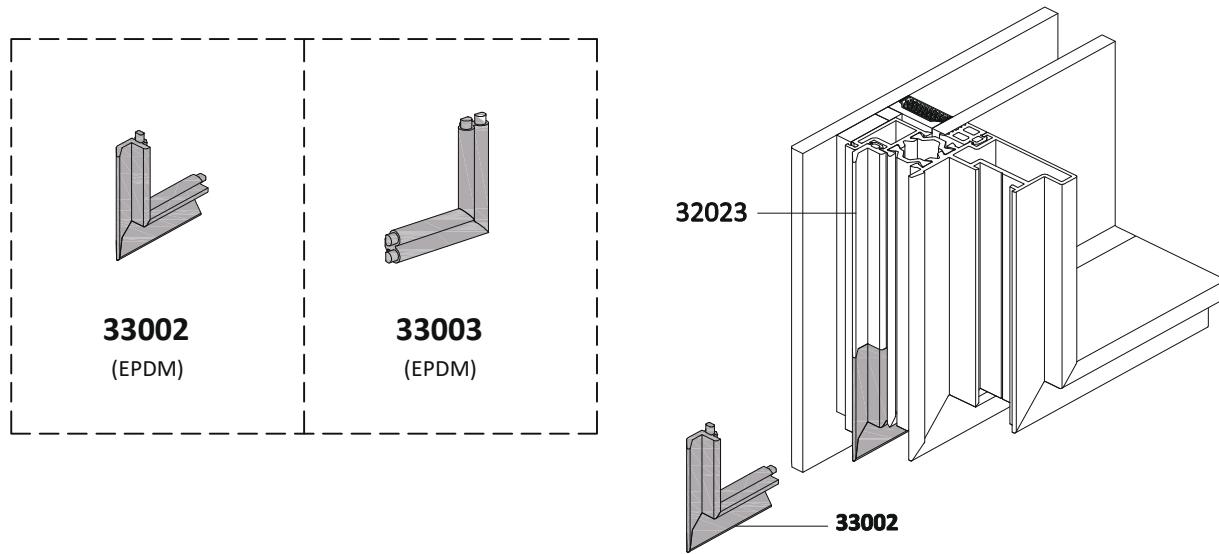


! (SAĞ VE SOL PARÇALAR OLMAK ÜZERE TAKIMDIR. /
SET AS LEFT AND RIGHT PAIRS.)



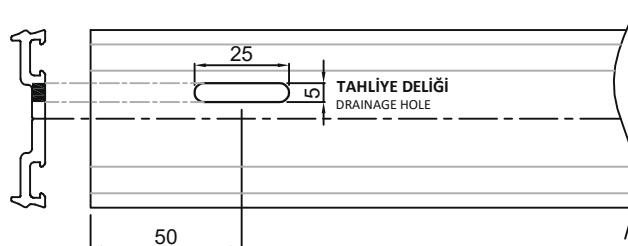
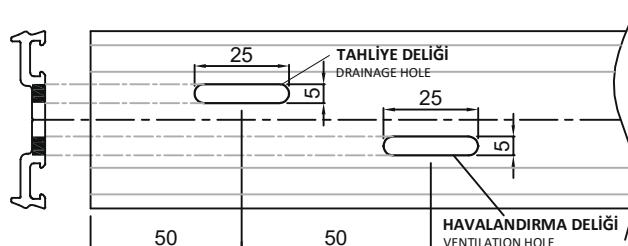
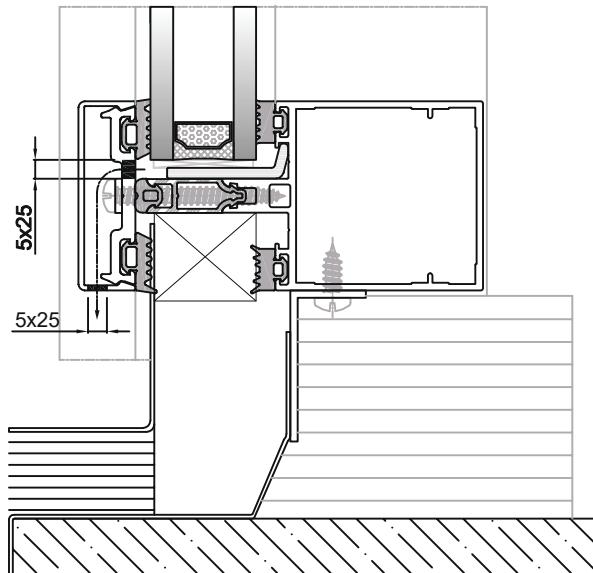
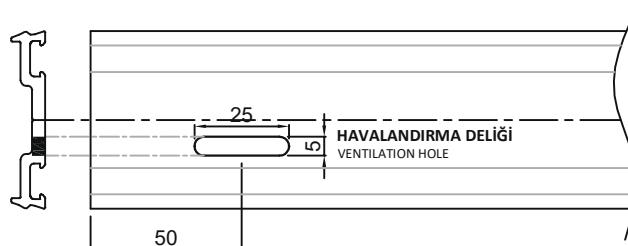
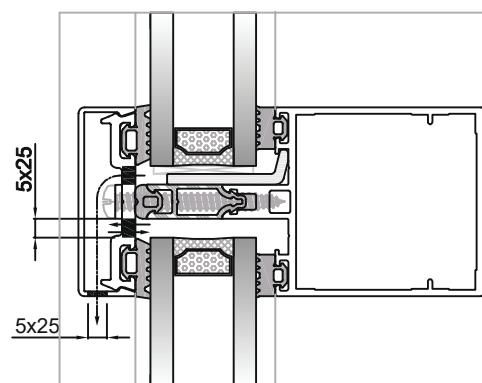
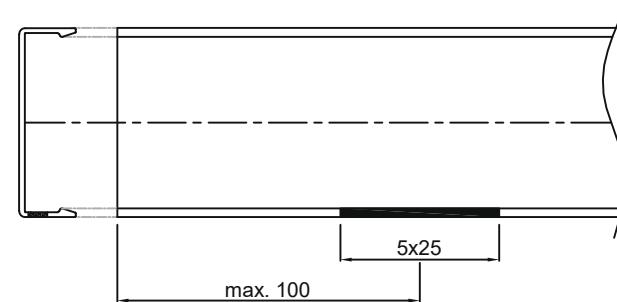
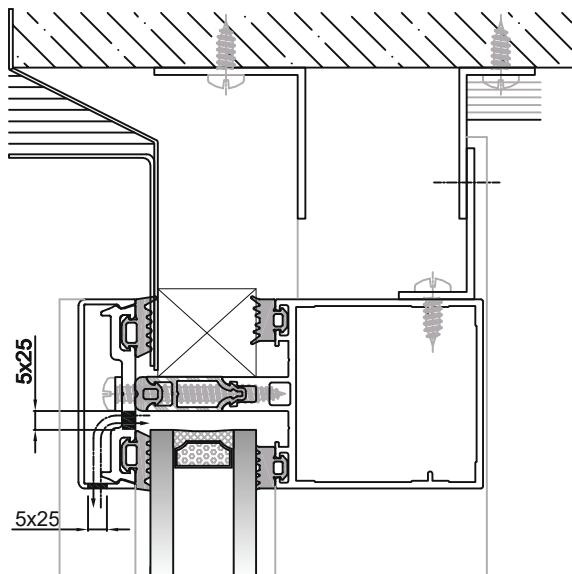
DIŞA AÇILIR KANAT İÇİN VULKANİZE KÖŞE PARÇALARI

VULCANISED CORNER PIECES FOR OUTWARD OPENING VENT



KAPAKLAR İÇİN TAHLİYE DELİK ŞEMALARI

SCHEMAS OF THE DRAINAGE HOLES FOR THE CAPS



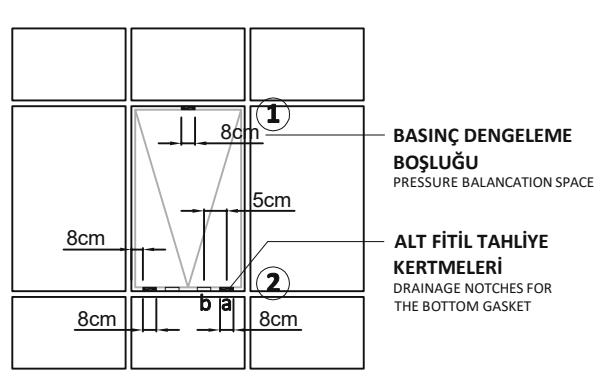
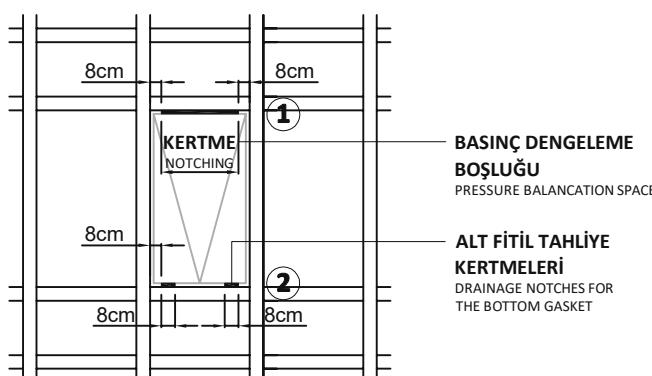
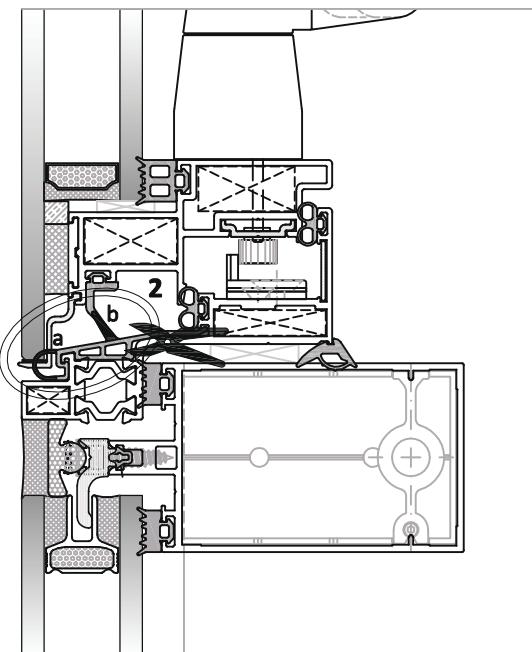
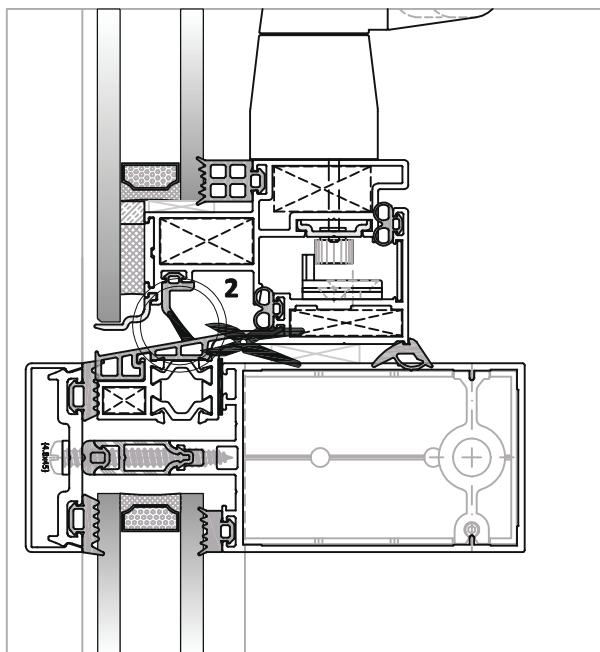
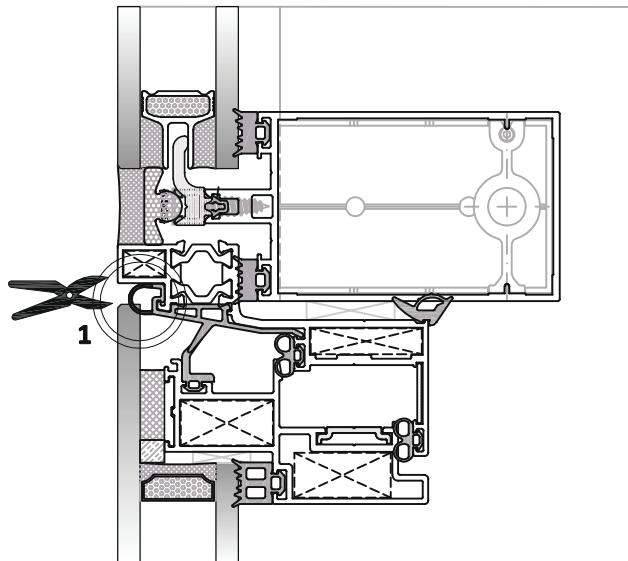
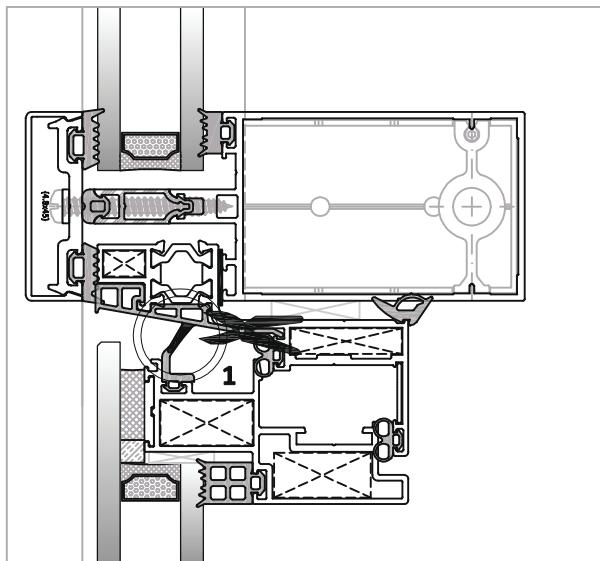
ÖNEMLİ: AÇILAN İKİ DELİK ARASINDA HER DURUMDA EN AZ 50mm HİZA FARKI(ŞAŞIRTMA) OLMALIDIR.
IMPORTANT: AT LEAST 50mm ALIGNING DIFFERENCE SHOULD BE MADE BETWEEN TWO HOLES EVERYTIME.

NOT: 1,5 METREDEN UZUN KAYITLarda TAM ORTAYA İLAVE BİR TAHLİYE DAHA AÇILMALIDIR.

NOTE: ADDITIONAL DRAINAGE HOLE SHOULD BE REQUIRED AT THE MIDDLE FOR TRANSOMS LONGER THAN 1,5 METER.

KANATLAR İÇİN TAHLİYE DELİK ŞEMALARI

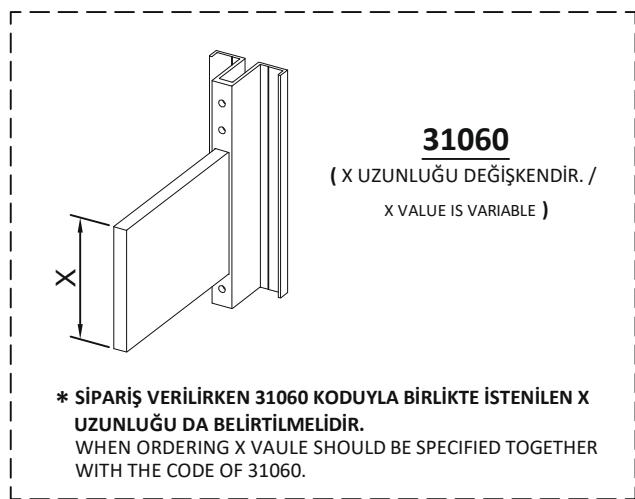
SCHEMAS OF THE DRAINAGE HOLES FOR VENTS



NOT: a ve b tahliye kertmeleri 5cm şartsızlıdırtırmalı açılmalıdır.
NOTE: a and b drainage notches should be misaligned as 5cm.

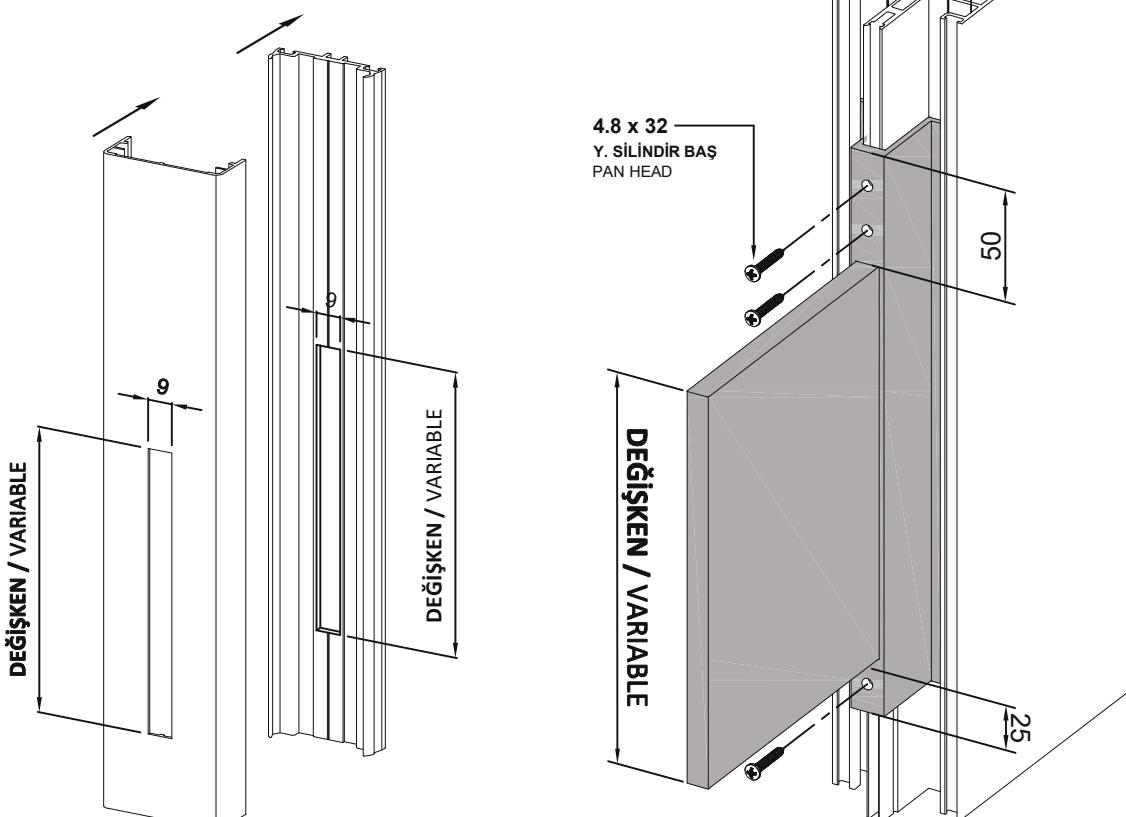
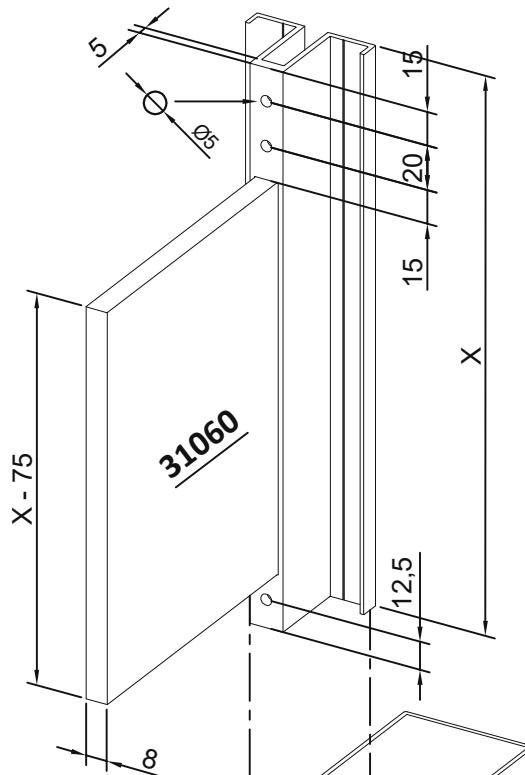
KAPAKLI CEPHEDE G.KIRICI TAŞIYICI APARAT İÇİN BAĞLANTI DETAYI

CARRIER APPARATUS FOR SUNBREAKER CONNECTION DETAIL AT THE CAPPED CURTAIN WALL

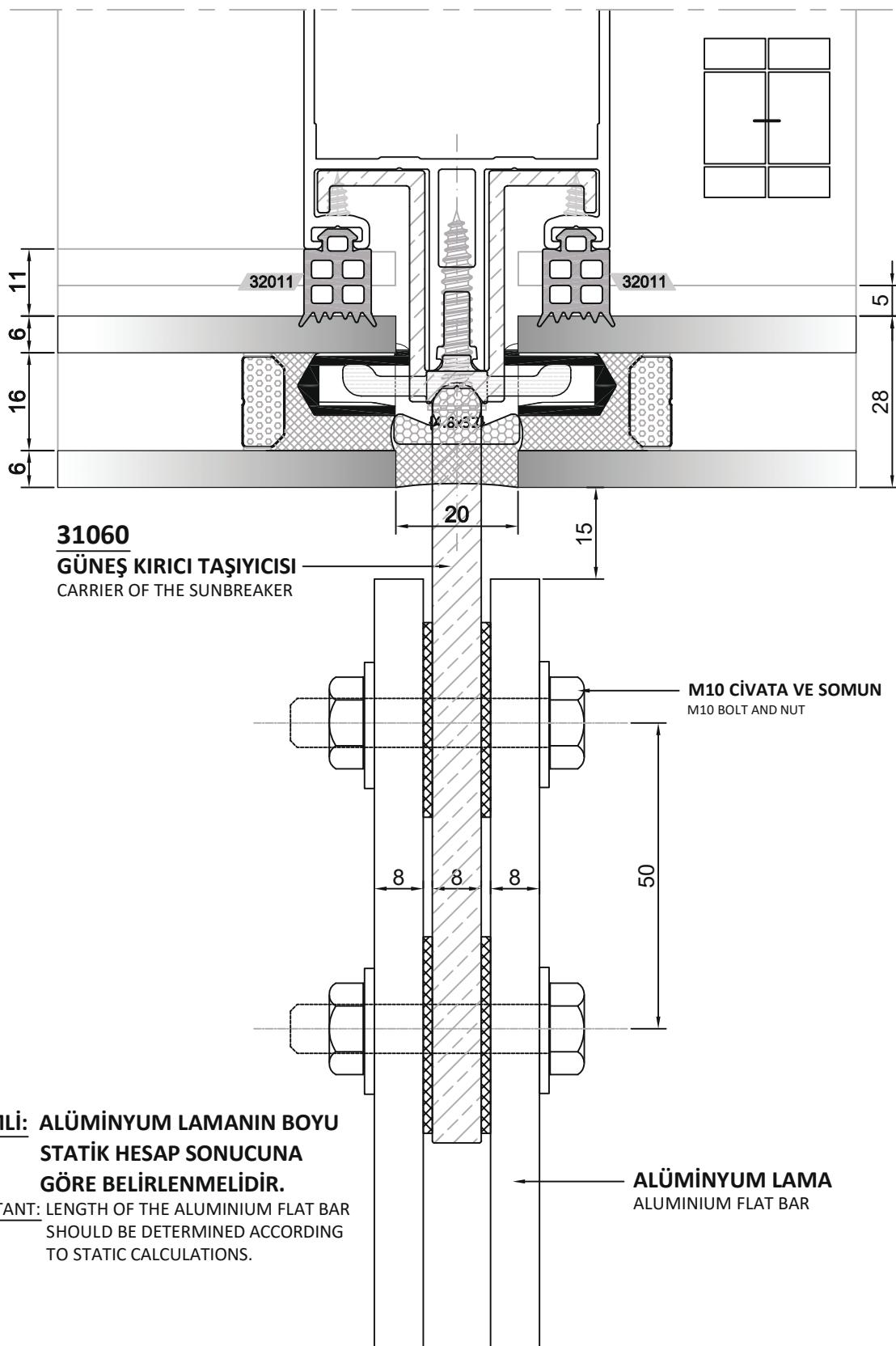


ÖNEMLİ: TAŞIYICI APARATIN UZUNLUĞU (X),
ÜZERİNE BAĞLANACAK LAMALARIN
GENİŞLİĞİNE VE GÜNEŞ KIRICILARIN
UYGULADIĞI TOPLAM AĞIRLIĞA
GÖRE HESAPLANMALIDIR.

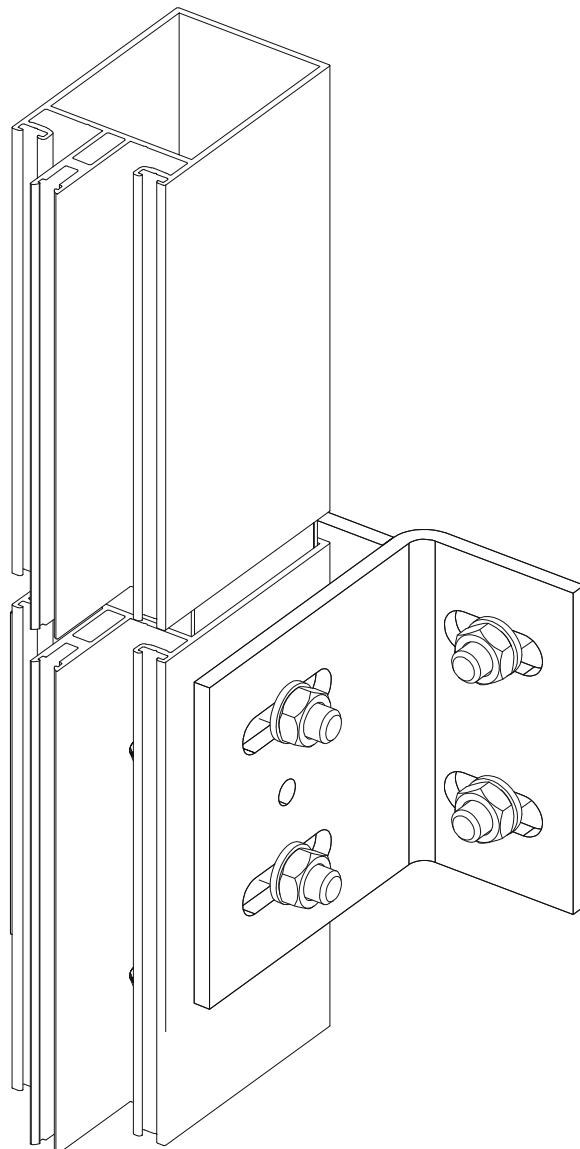
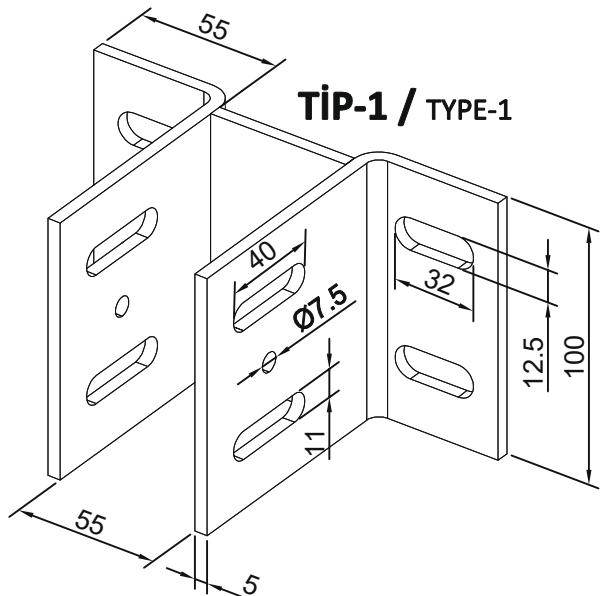
IMPORTANT: LENGTH OF THE CARRIAGE PART SHOULD BE
CALCULATED ACCORDING TO THE WIDTH OF
THE ALUMINIUM ROD AND THE TOTAL WEIGHT
APPLIED FROM THE SUNBREAKERS.



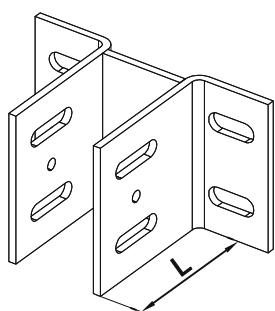
CAM CEPHEDE TAŞIYICI APARAT ÜZERİNE G.KIRICI BAĞLANTI DETAYI
 SUNBREAKER CONNECTION DETAIL ABOVE THE CARRIER APPARATUS AT THE FOURSIDED C.WALL



ANKRAJLAR ANCHORAGES

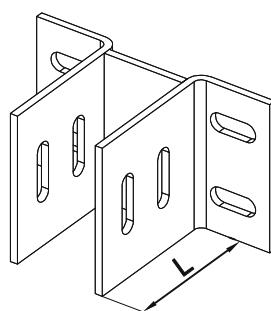


YATAY BAKLALI SABİT ANKRAJ
HORIZONTAL MOVABLE FIXED ANCHORAGE



ÜRÜN KODU PRODUCT CODE	BAYRAK UZUNLUĞU (L) EXTENSION LENGTH (L)
36002	80 mm
36003	100 mm
36004	120 mm
36005	150 mm
36006	200 mm

DÜŞEY BAKLALI SABİT ANKRAJ
VERTICAL MOVABLE FIXED ANCHORAGE



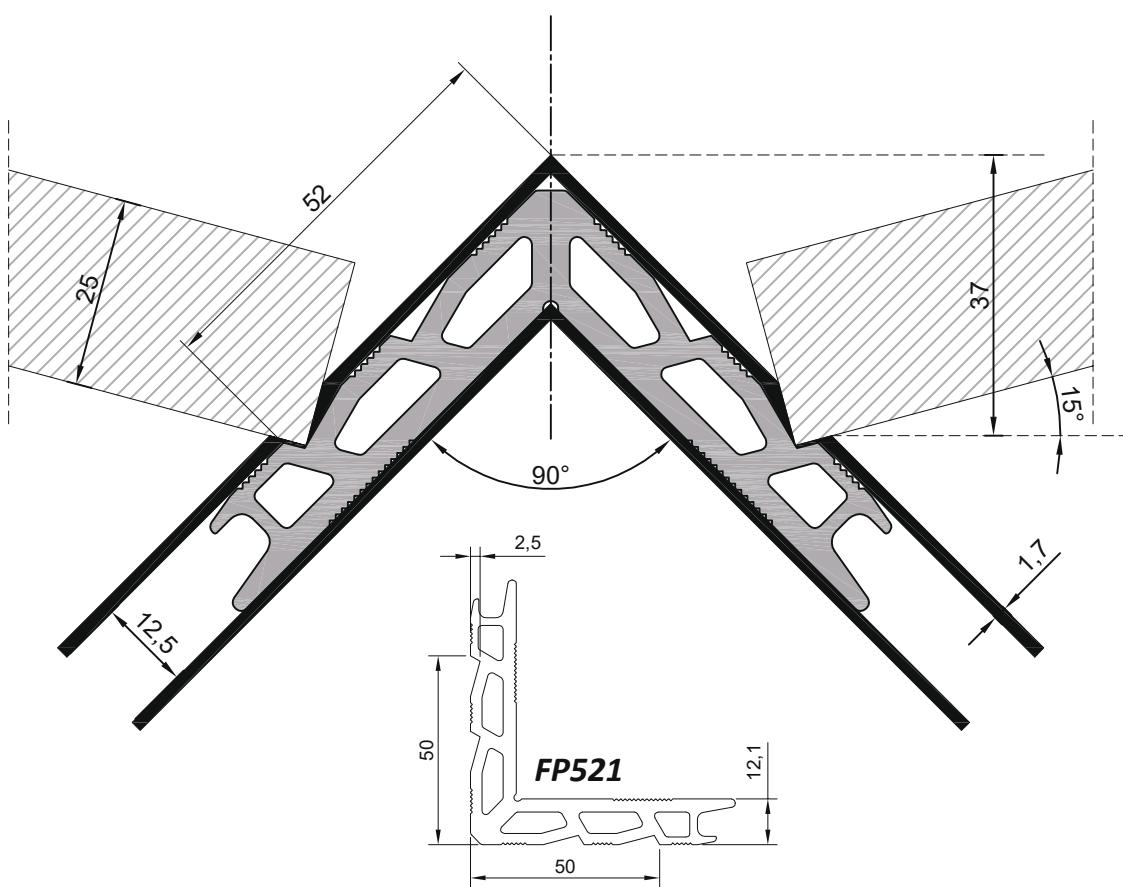
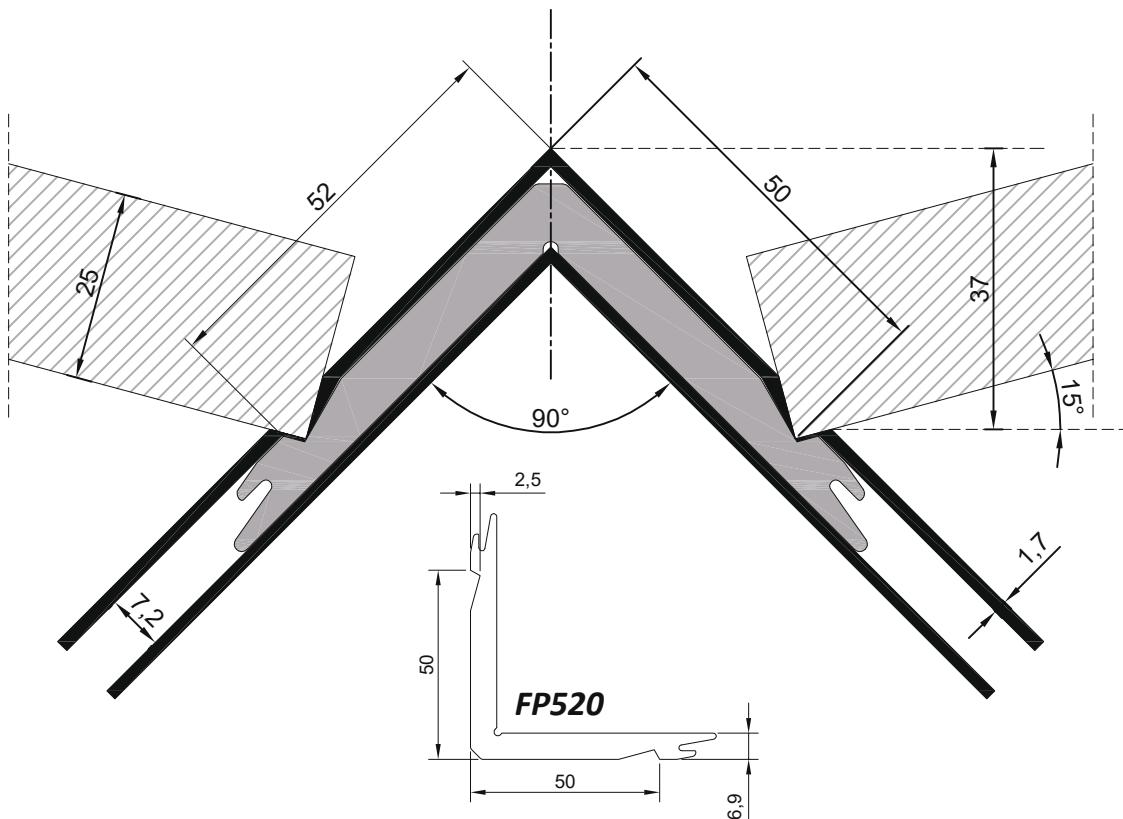
ÜRÜN KODU PRODUCT CODE	BAYRAK UZUNLUĞU (L) EXTENSION LENGTH (L)
36007	80 mm
36008	100 mm
36009	120 mm
36010	150 mm
36011	200 mm

* BAYRAK UZUNLUKLARI TAŞIYICI DİKME DERİNLİKLERİNE VE YAPININ DÖŞEME ALIN HİZA FARKLARINA GÖRE DEĞİŞMELİKTİR.
EXTENSION LENGTHS CHANGE ACCORDING TO THE MULLION DEPTH AND FRONT LEVEL DIFFERENCES OF THE FLOOR.

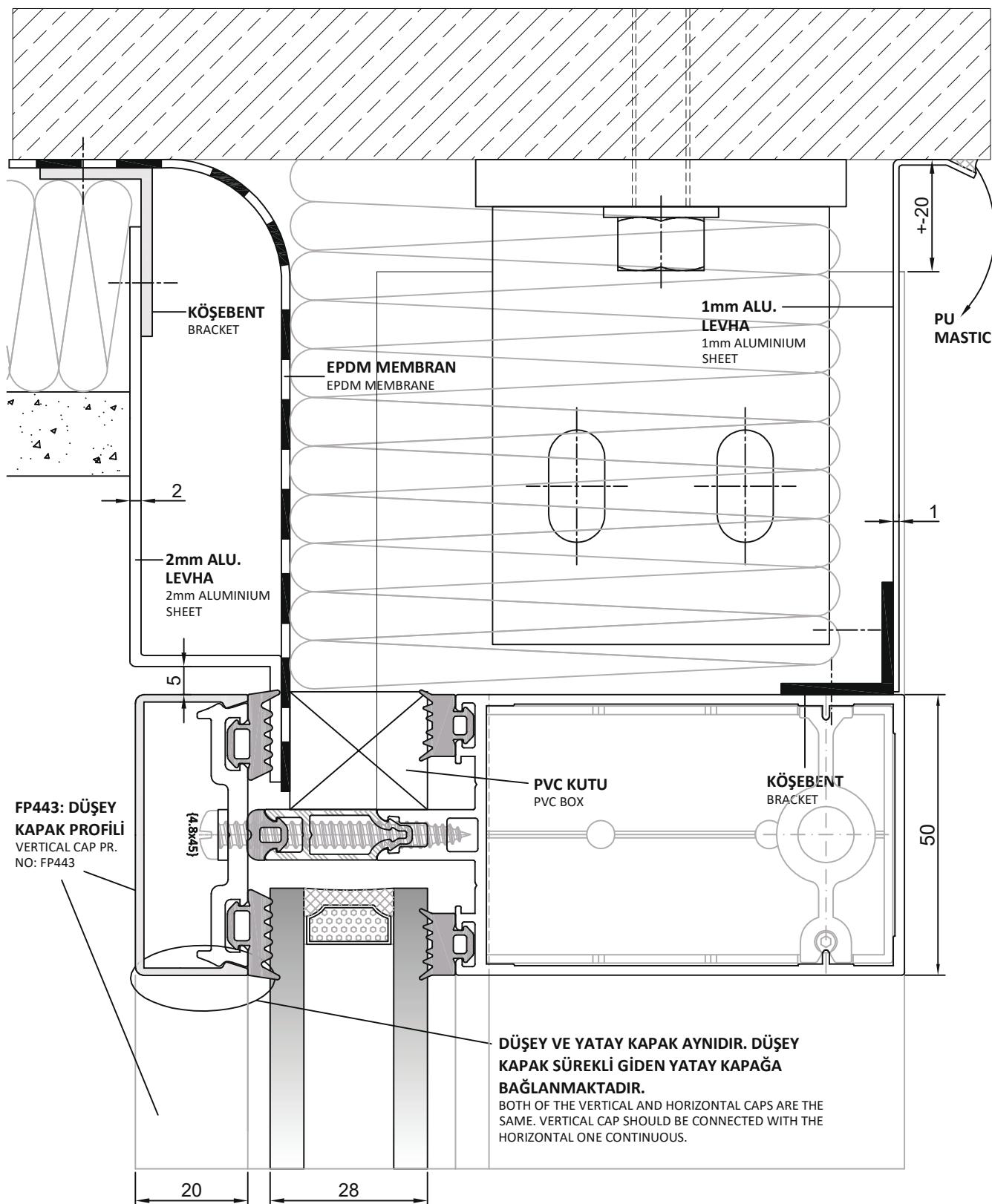
* TÜM ANKRAJLAR DALDIRMA GALVANİZLİDİR.
ALL ANCHORAGES ARE DIP GALVANIZED.

KÖŞE TAKOZU BİRLEŞİM DETAYLARI

CORNER CLEAT CONECTION DETAILS



ÖRNEK CEPHE ÜST BİTİŞ DETAYI TOP END DETAIL EXAMPLE OF THE CURTAIN WALL



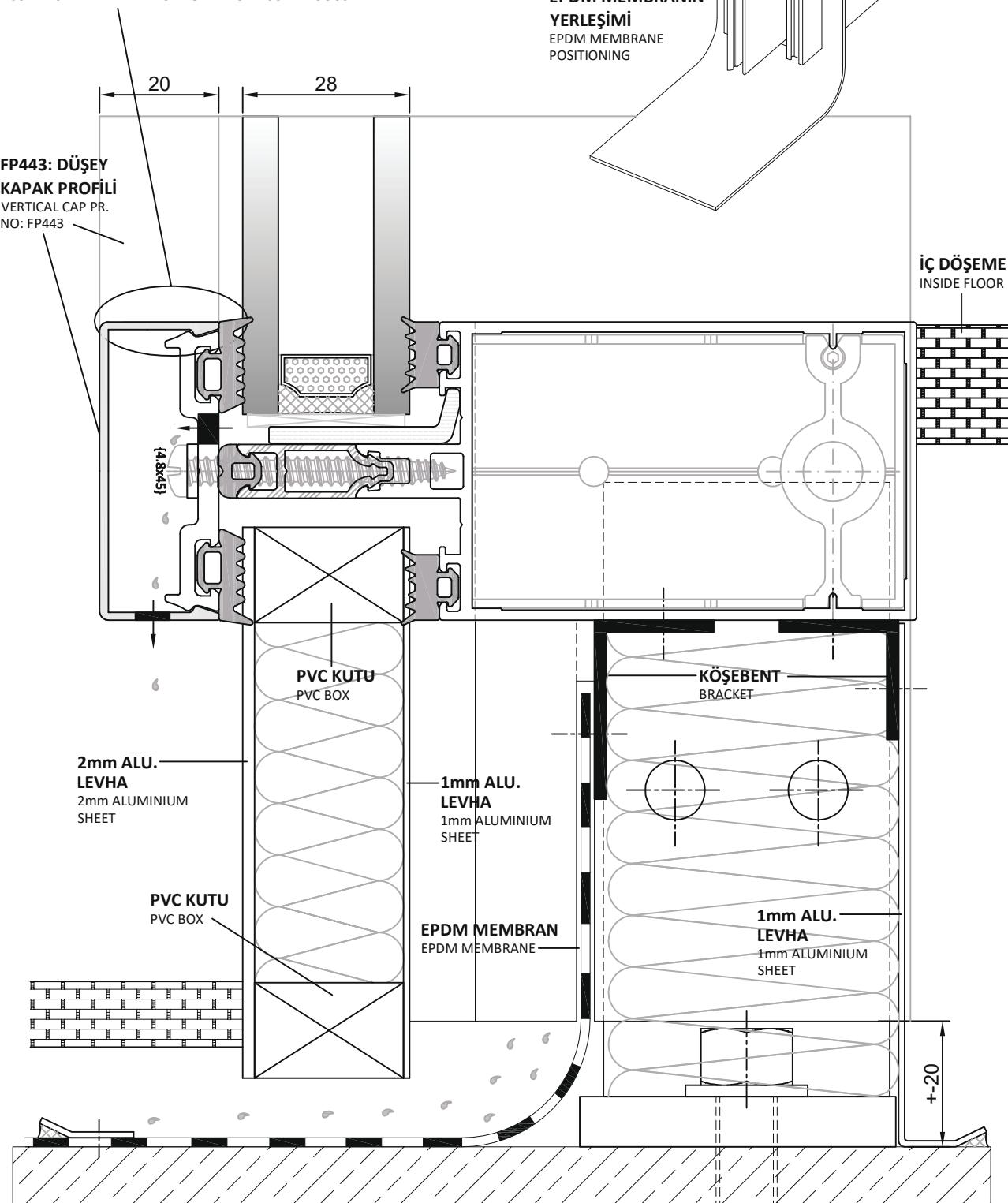
ÖRNEK CEPHE ALT BİTİŞ DETAYI

BOTTOM END DETAIL EXAMPLE OF THE CURTAIN WALL

BU BÖLGEDE DÜSEY VE YATAY KAPAKLAR

AYNIDIR. DÜSEY KAPAKLAR SÜREKLİ GİDEN
YATAY KAPAĞA BAĞLANMaktadır.

IN THIS AREA BOTH OF THE VERTICAL AND HORIZONTAL
CAPS ARE THE SAME. VERTICAL CAP SHOULD BE
CONNECTED WITH THE HORIZONTAL ONE CONTINUOUS.



KULLANIM ŞARTLARI

Profiller, folyolu muhafaza edilmeli, folyoları inşaat bitiminde çıkartılmalıdır. Kireç ve çimento gibi inşaat malzemeleri alüminyum yüzeylerle temas etmemelidir.

Profiller binaya uygulandıktan sonra düzenli aralıklarla temizlenmelidir. Profillerin temizliği, hafifçe sabunlu ılık su ve/veya bu suyla ıslatılmış yumuşak bir bez ile yapılmalı, deterjan, çamaşır suyu, zımpara, tel fırça ve aşındırıcı, alkali, asidik temizleyici kullanılmamalıdır.

Sistem için önerilen aksesuar ve sarf malzemeleri katalogda belirtilen biçimde uygulanmalı ve tüm aksesuarları eksiksiz olarak kullanılmalıdır.

Sistemin katalogda belirtilen fitilleme, silikonlama, su tahliyesi ve havalandırma metodlarına uyulmalıdır. İlave her türlü uygulama için Sistem Alüminyum'dan destek ve onay alınmalıdır.

GARANTİ KOŞULLARI

Profiller, yukarıda belirtilen şartlara uygun biçimde kullanılmış ve hiçbir şekilde mekanik hasara veya deformasyona uğramamış ise, herhangi bir kusur durumunda, garantimiz yalnız kusurlu parçaların de-montajı, tekrar üretimi, tekrar eloksali ve tekrar yerine takılması ile sınırlı olacaktır. Yukarıda bahsedilmeyen konular iş hukukuna tabidir.

Mimari sistem katalogunda belirtilmeyen veya Sistem Alüminyum'un onay vermediği aksesuar ve sarf malzemesi kullanımından doğabilecek her türlü sorumluluk uygulamacı firmaya aittir.

Mimari sistem katalogunda belirtilen detay ve sistem çözümleri haricindeki uygulamalar için Sistem Alüminyum'un onayı alınmalıdır. Aksi takdirde bu uygulamalardan meydana gelebilecek problem ve aksaklılıklardan Sistem Alüminyum sorumlu değildir.

TERMS OF SERVICE

Profiles must be protected with folio tapes and they must be taken out when the structure was finished. Building materials as similar lime and cement must not be touched with the aluminium surfaces.

The profiles must be cleaned periodically after the structure was finished. Cleaning of profiles must be done by the fabric that was damped with warm water and soap. Don't use detergent, chlorine water, emery, wire brush, abrasive, base, acidic cleaner.

Accessories and consumables should be applied as shown at the catalogue and used completely.

Glazing, siliconing, water drainage and ventilation methods specified on the catalogue should be applied completely. Any type of the additional methods should be approved by Sistem Aluminium.

TERMS OF WARRANTY

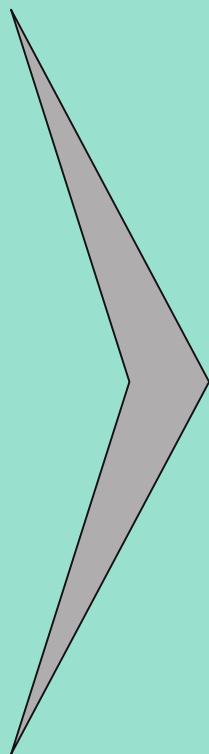
If the profiles was used according to terms of service and they have no mechanical damage or deformation,in any defect situation,our warranty is limited by disassembly, re-product, re-eloxal, re-assembly of faulty pieces. These are subjected to labor law.

Builder is responsible for all conditions by using of accessories and consumables that did not confirmed by Sistem Aluminium are not mentioned in catalogue of Architectural System.

Confirmation must be taken from Sistem Aluminium for applications without details and system solutions that are mentioned in catalogue of architectural sytem. If not Sistem Aluminium is not responsible because of any wrong applications.

SERTİFİKALAR

CERTIFICATES





**AVRASYA CEPHE-DOĞRAMA
TEST VE TEKNOLOJİ MERKEZİ A.Ş.**

Cumhuriyet Mahallesi 1. Cadde 1. Sokak No:1 81600
II. OSB Beyköy – DÜZCE/TÜRKİYE



**Deney Raporu
Test Report**

AB-0926-T
19-094-PR04
07.2020

Sayfa (Page): 1 / 36

Müşterinin adı/adresi: Customer name/address:	Sistem Alüminyum San. ve Tic. A.Ş. Akçaburgaz Mh. 3055. Sok. No:4 34522 Esenyurt / İSTANBUL 19-094-PR04
İstek Numarası: Order No.	
Numunenin adı ve tarifi: Name and identity of test item:	Alutech F50 Energy Kapaklı Sistem Giydirme Cephe / Çubuk Sistem Alutech F50 Energy System Capped Curtain Walling / Stick System
Numunenin kabul tarihi: The date of receipt of test item:	27.05.2020
Açıklamalar: Remarks:	EN 12153, EN 12155, EN 12179 deney metodları kullanılmıştır. EN 12153, EN 12155, EN 12179 testing methods were performed.

EN 12152 - Hava Geçirgenliği	AE	EN 12152 - Air Permeability	AE
EN 12207 - Hava Geçirgenliği	Sınıf 4	EN 12207 - Air Permeability	Class 4
EN 12154 - Su Sızdırmasız / Statik	RE ₁₅₀₀	EN 12154 - Watertightness / Static	RE ₁₅₀₀
EN 12208 - Su Sızdırmasız / Statik*	E ₁₅₀₀	EN 12208 - Watertightness / Static *	E ₁₅₀₀
EN 13116 - Rüzgar Yüklerine Dayanım		EN 13116 - Resistance to Wind Load	
Hizmet Verebilirlik	± 2,00 kN/m ²	Serviceability	± 2,00 kN/m ²
Emniyet	± 3,00 kN/m ²	Safety	± 3,00 kN/m ²

Deneyin yapıldığı tarih: 28/29.05.2020

Date of Test

Deney Raporu Sayfa Sayısı: 36

Number of pages of the test report

Avrasya Cephe-Doğrama Test ve Teknoloji Merkezi A.Ş. TÜRKAK'tan AB-0926-T dosya numarası ile TS EN ISO/IEC 17025:2017 standardına göre akredite edilmiştir.

Avrasya Cephe-Doğrama Test ve Teknoloji Merkezi A.Ş. accredited by TÜRKAK under registration number AB-0926-T for TS EN ISO/IEC 17025:2017 as test laboratory

Türk Akreditasyon Kurumu(TÜRKAK) deney raporlarının tanınılığı konusunda Avrupa Akreditasyon Birliği(EA) ile Çok Taraflı Anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği(ILAC) ile karşılıklı tanınma anlaşması imzalamıştır.

Turkish Accreditation Agency (TÜRKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

Bu deney raporu: Firmamıza ulaşan numunelere deney ve/veya deneyler uygulanarak elde edilmiştir.

Müşteriye alt diğer numuneleri kapsamaz.

(This test report was prepared after applying test/tests to the samples that are sent to our company.)

(Note that this declaration does not involve other samples of the customer.)

Deney ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metodları bu sertifikatın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.

The brief test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.



3.07.2020

Kaşe / Seal

Yayımlandığı Tarih

Date

Deney Sorumlusu

Person in charge of test

Onaylayan

Approval

*Pencere su sızdırmasız testinde EN 12027 de belirtilen farklı nozül aranjmanı ve su püskürme değeri kullanıldığından dolayı devriyon söz konusudur.
*In deviation from EN 12027 it is in question because of watertightness of insert window was tested at different water flow rate and nozzle arrangement.

8PR001/01/09.10.2019

Bu rapor, laboratuvarın yazılı izni olmadan kopyalanıp çoğaltılmaz.

Faksimile ve mühürlü röportler geçerlidir.

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**AVRASYA CEPHE-DOĞRAMA
TEST VE TEKNOLOJİ MERKEZİ A.Ş.**



Cumhuriyet Mahallesi 1. Cadde 1. Sokak No:1 81600
II. OSB Beykoy - DÜZCE/TÜRKİYE



AB-0926-T
19-094-PR05
07.2020

Deney Raporu
Test Report

Sayfa (Page): 1 / 26

Müşterinin adı/adresi:
Customer name/address

Sistem Alçımnyum San. ve Tic. A.Ş.
Akçaburgaz Mh. 3055, Sok. No:4 34522
Esenyurt / İSTANBUL

İstek Numarası:

19-094-PR05

Order No.

Numunenin adı ve tarifi:

Name and identity of test item

Numunenin kabul tarihi:

The date of receipt of test item

Açıklamalar:

Remarks

Alutech F50 Energy Kapaklı Sistem Giydirme Cephe / Çubuk Sistem
Alutech F50 Energy System Capped Curtain Walling / Stick System
27.05.2020

EN ISO 10140-2 / Hava ile Yayılan Ses Yalıtımının Ölçülmesi, deney metodu uygulanmıştır.
EN ISO 10140-2 / Measurement of Airborne Sound Insulation, testing method was performed.

Sonuçlar / Results : EN ISO 717-1: $R_w (C;C_n) = 34 (-2 ; -5) \text{ dB}$

Deneyin yapıldığı tarih:

28.05.2020

Date of Test

Deney Raporu Sayfa Sayısı:

26

Number of pages of the test report

Avrasya Cephe-Doğrama Test ve Teknoloji Merkezi A.Ş. TÜRKAK'tan AB-0926-T dosya numarası ile TS EN ISO/IEC 17025:2017 standerdına göre akredite edilmiştir.

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Müşteriye alt diğer numuneleri kapsamaz.

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The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.



3.07.2020

Mühür / Seal

Yayınlandığı Tarih

Date

Deney Sorumlusu

Person in charge of test

Onaylayan

Approval

RRP001/01/09.10.2019

Bu rapor, laboratuvarın yazılı izni olmadan ısmen kopyalanıp çoğaltılmaz.
İzniassyı ve mühümümüz raporlar geçersizdir.

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**AVRASYA CEPHE-DOĞRAMA
TEST VE TEKNOLOJİ MERKEZİ A.Ş.**

Cumhuriyet Mahallesi 1. Cadde 1. Sokak No:1 81600
II. OSB Beyköy – DÜZCE/TÜRKİYE



TS EN ISO/IEC 17025:2017
AB-0926-T

AB-0926-T
19-094-PR01
02.2020

Deney Raporu
Test Report

Sayfa (Page): 1 / 33

Müşterinin adı/adresi: Sistem Alüminyum San. ve Tic. A.Ş.
Customer name/address Akçaburgaz Mh. 3055. Sok. No:4 34522
Esenyurt / İSTANBUL
İstek Numarası: 19-094-PR01
Order No.
Numunenin adı ve tarihi: Alutech F50 Kondens Entegre Sistem Gıydırma Cephe / Çubuk Sistem
Name and identity of test item Alutech F50 Condensate Integrated Curtain Walling / Stick System
Numunenin kabul tarihi: 25.12.2019
The date of receipt of test item
Açıklamalar: EN 12153, EN 12155, EN 12179 deney metodları kullanılmıştır.
Remarks EN 12153, EN 12155, EN 12179 testing methods were performed.

EN 12152 - Hava Geçirgenliği	AE	EN 12152 - Air Permeability	AE
EN 12207 - Hava Geçirgenliği	Sanıf 4	EN 12207 - Air Permeability	Class 4
EN 12154 - Su Sızdırılmazlık / Statik	RE1200	EN 12154 - Watertightness / Static	RE1200
EN 12208 - Su Sızdırılmazlık / Statik	E1200	EN 12208 - Watertightness / Static	E1200
EN 13116 - Rüzgar Yüklerine Dayanım		EN 13116 - Resistance to Wind Load	
Hizmet Verebilirlik	± 2,00 kN/m ²	Serviceability	± 2,00 kN/m ²
Emniyet	± 3,00 kN/m ²	Safety	± 3,00 kN/m ²

Deneyin yapıldığı tarih: 26.12.2019

Date of Test

Deney Raporu Sayfa Sayısı: 33

Number of pages of the test report

Avrasya Cephe-Doğrama Test ve Teknoloji Merkezi A.Ş. TÜRKAK'tan AB-0926-T dosya numarası ile TS EN ISO/IEC 17025:2017 standartına göre akredite edilmiştir.

Avrasya Cephe-Doğrama Test ve Teknoloji Merkezi A.Ş. accredited by TÜRKAK under registration number AB-0926-T for TS EN ISO/IEC 17025:2017 as test laboratory

Türk Akreditasyon Kurumu(TÜRKAK) deney raporlarının tanınılığı konusunda Avrupa Akreditasyon Birliği(EA) ile Çok Taraflı Anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği(ILAC) ile karşılıklı tanıtma anlaşması imzalamıştır.

Turkish Accreditation Agency (TÜRKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

Bu deney raporu: Firmamiza ulaşan numunelere deney ve/veya deneyler uygulanarak elde edilmiştir.

Müşteriye ait diğer numuneleri kapsamaz.

(This test report was prepared after applying test/tests to the samples that are sent to our company.)

(Note that this declaration does not involve other samples of the customer.)

Deney ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metodları bu sertifikatın tamamlanıcı kısmı olan takip eden sayfalarda verilmiştir.

The brief test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.



11.02.2020

Yayımlanıldığı Tarih

Kaşe / Seal

Date

Deney Sorumlusu

Person in charge of test

Onaylayan

Approval

RPR001/01/09.10.2019

Bu rapor, imzasının yazılı izni olmadan kısmen kopyalanıp çoğaltılmaz.

İmzasız ve resmi hizmet raporları geçersizdir.

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Testing reports without signature and seal are not valid.



**AVRASYA CEPHE-DOĞRAMA
TEST VE TEKNOLOJİ MERKEZİ A.Ş.**

Cumhuriyet Mahallesi 1. Cadde 1. Sokak No:1 81600
II. OSB Beyköy – DÜZCE/TÜRKİYE

Deney Raporu
Test Report



AB-0926-T
19-094-PRO2
02.2020

Sayfa (Page): 1 / 24

Müşterinin adı/adresi:
Customer name/address

Sistem Alüminyum San. ve Tic. A.Ş.
Akçaburgaz Mh. 3055. Sok. No:4 34522
Esenyurt / İSTANBUL

İstek Numarası:
Order No.

19-094-PRO2

Numunenin adı ve tarihi:
Name and identity of test item

Akutech F50 Kondens Entegre Sistem Giydirmeye Cephe / Çubuk Sistem
Akutech F50 Condensate Integrated Curtain Walling / Stick System

Numunenin kabul tarihi:
The date of receipt of test item

25.12.2019

Açıklamalar:
Remarks

EN ISO 10140-2 / Hava ile Yayılan Ses Valitiminin Ölçülmesi, deney metodu uygulanmıştır.
EN ISO 10140-2 / Measurement of Airborne Sound Insulation, testing method was performed.

Sonuçlar / Results : EN ISO 717-1: $R_w(C, C_s) = 33 (-1; -3) \text{ dB}$

Deneyin yapıldığı tarih:
Date of Test

28.12.2019

Deney Raporu Sayfa Sayısı:
Number of pages of the test report

24

Avrasya Cephe-Doğrama Test ve Teknoloji Merkezi A.Ş. TÜRKAK'tan AB-0926-T dosya numarası ile TS EN ISO/IEC 17025:2012 standartına göre akredite edilmiştir.

Avrasya Cephe-Doğrama Test ve Teknoloji Merkezi A.Ş. accredited by TÜRKAK under registration number AB-0926-T for TS EN ISO/IEC 17025:2012 as test laboratory

Türk Akreditasyon Kurumu(TÜRKAK) deney raporlarının tanınırlığı konusunda Avrupa Akreditasyon Birliği(EA) ile Çok Taraflı Anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği(ILAC) ile karşılıklı tanıma anlaşması imzalamıştır.

Turkish Accreditation Agency (TÜRKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports

Bu deney raporu: Firmamıza ulaşan numunelere deney ve/veya deneyler uygulanarak elde edilmiştir.

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(This test report was prepared after applying test/tests to the samples that are sent to our company.

(Note that this declaration does not involve other samples of the customer.)

Deney ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metodları bu sertifikatın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.



11.02.2020

Mühür / Kaşe	Yayınlandığı Tarih	Deney Sorumlusu	Onaylayan
RPR001/01/09.10.2019 Seal	Date	Person in charge of test	Approval

Bu rapor, laboratuvarın yazılı izni olmadan kopyalanıp çoğaltılmaz.
İznezzet ve mühürünüz raporlar geçerlidir.

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Testing reports without signature and seal are not valid.

CERTIFICATE



for the management system according
to ISO 9001:2015 and ISO 14001:2015
and ISO 45001:2018

The proof of the conforming application with the regulation was furnished and in accordance with certification procedure it is certified for the company



SİSTEM ALÜMİNYUM SANAYİ
VE TİCARET A.Ş.
Akçaburgaz Mah. 3055, Sokak No:4
Esenyurt – İstanbul / Turkey
with branch (see enclosure)

Scope

Sales, import, export, foreign trade, customs clearance, management and administrative organization activities of the manufacturing of aluminum profiles with extrusion method, anodize oxidation and electrostatic coating processes, transfer coating and aluminum composite panel manufacturing. The operations related to these activities and related services.

Certificate Registration No.:

TIC 15 100 6400
TIC 15 104 151364

Valid until: 2021-06-06

Valid from: 2019-10-25

Audit Report No.:

2330 29AW N0

This certificate was conducted in accordance with the TIC auditing and certification procedures and is subject to regular surveillance audits.



Jens, 2019-05-25



The current validity can be checked at www.ticcert.com.tr
or by calling +90 216 500 00 00 or +90 216 500 00 00

Enclosure to Certificate-Nr TIC 15 104 151364



SİSTEM ALÜMİNYUM SANAYİ VE TİCARET A.Ş.

Akçaburgaz Mah. 3055 Sokak No:4
34632 Esenyurt - İstanbul / Turkey

Following local branches are part of the certificate:

Central office

SİSTEM ALÜMİNYUM SANAYİ VE TİCARET A.Ş.
Akçaburgaz Mah. 3055 Sokak No:4
34632 Esenyurt - İstanbul / Turkey

Scope: Sales of aluminum profiles; anodizing and electrostatic powder coating of aluminum profiles; transfer coating and sales of aluminum composite panel.

Certificate-Nr TIC 15 104 151364

Locations

SİSTEM ALÜMİNYUM SANAYİ VE TİCARET A.Ş.
Ergene-1 OSB, Vakıflar OSB Mah. D100 Caddesi No:131
Esenye - Tekirdağ Turkey

Scope: Aluminum profiles production; anodizing and electrostatic powder coating of aluminum profiles; transfer coating and aluminum composite panel production

Certificate-Nr TIC 15 104 151364



Jens, 2019-06-06



The current validity can be checked at www.ticcert.com.tr
or by calling +90 216 500 00 00 or +90 216 500 00 00

CERTIFICATE



for the information security management system ISO/IEC 27001:2013

The proof of the conforming application with the regulation was furnished and in accordance with certification procedure it is certified for the company



SİSTEM ALÜMİNYUM SANAYİ VE TİCARET A.Ş.
Ergene-1 OSB, Vakıflar OSB Mah. D100 Caddesi No: 13/1
Ergene – Tekirdağ / Turkey

Scope

Information security aimed to protect information properties related to extruded aluminum profiles, aluminum composite panel, related products' raw material purchases, sales, import, export, customs operations, transit trade and all related activity including logistics, storage, accounting, finance and information technologies.

Statement of applicability

Certificate Registration No.: TIC 15 121 179731

Valid until: 2022-10-11

Valid from: 2017-10-12

Audit Report No.: 2330 2102 A0

Revision: 2017-07-19

This certification was conducted in accordance with the TIC auditing and certification procedures and is subject to regular surveillance audits. The certificate is valid in conjunction with the main certificate.



Jens, 2019-10-12

TÜV Rheinland e.V.
Certification body for
systems and personnel



The current validity can be checked at www.ticcert.com.tr
or by calling +90 216 500 00 00 or +90 216 500 00 00

Enclosure to Certificate-Nr TIC 15 100 64050



SİSTEM ALÜMİNYUM SANAYİ VE TİCARET A.Ş.

Akçaburgaz Mah. 3055, Sokak No: 4
Esenyurt – İstanbul / Turkey

Following local branches are part of the certificate:

Central office

SİSTEM ALÜMİNYUM SANAYİ VE TİCARET A.Ş.
Akçaburgaz Mah. 3055, Sokak No: 4
Esenyurt – İstanbul / Turkey

Scope: Sales, import, export, foreign trade, customs clearance, management and administrative organization activities of the aluminum profiles and aluminum composite panels manufactured. The operations related to these activities and related services.

Certificate-Nr TIC 15 100 64050

Locations

SİSTEM ALÜMİNYUM SANAYİ VE TİCARET A.Ş.
Ergene-1 OSB, Vakıflar OSB Mah. D100 Caddesi No: 131
Esenye - Tekirdağ Turkey

Scope: Production of aluminum profiles by the extrusion process, anodizing and electrostatic color coating processes, transfer coating and production of aluminum composite panels.

Certificate-Nr TIC 15 100 64050



Jens, 2019-06-07



The current validity can be checked at www.ticcert.com.tr
or by calling +90 216 500 00 00 or +90 216 500 00 00



 ERA LABORATUVVULARI A.Ş. ERA Yenilen Test Laboratuvarı Ammetli İmzalı Ref. AS-6550-T	 TÜV AUSTRIA TEST • CERTIFY • ADVISE
YANGINA KARŞI TEPKİŞİNİN EN 13501-1:2007 STANDARTINA GÖRE SINIFLANDIRILMASI	
Müüracat eden : SİSTEM ALÜMİNYÜM SAN. ve TC. A.Ş. Dilekçeli Mevkii Alıcılarlaç Cad. 58/1. Blok No: 40 Kıraç, Büyükdere Mah., İSTANBUL TÜRKİYE	
Hazırlayan : ERA LABORATUVVULARI A.Ş., Tunceli 1. Sanayi Sitesi, B Blok, No:25, Rıswili Departör Sanayi Bölgesi, Kozyatağı Mah., İSTANBUL TÜRKİYE	
Ürün adı : ALLUTON BOND - Isomorph Fasit	
Sınıflandırma rapor no. : ERA - 30 - 080	
Rapor tarihi : 11.08.2010	
Yayınlanma tarihi : 11.08.2010	
Bu sınıflandırma raporu, 5 ay tarihli olumsuzluklar ve teknolojik gelişmelerin etkisiyle geçerlidir.	
<small>Adres: Tunceli 1. Sanayi Sitesi, B Blok, No:25, Rıswili Departör Sanayi Bölgesi, Kozyatağı Mah., 34360 Istanbul / TURKIYE Telefon: +90 216 330 70 00 - Faks: +90 216 330 70 01 E-mail: info@erasistem.com.tr</small>	

CERTIFICATE

