



F50-ENERGY

YÜKSEK YALITIMLI GIYDİRME CEPHE SİSTEMİ
HIGH INSULATED CURTAIN WALL SYSTEM



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

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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 giydirme 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 yapılırken 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 yapılabilmektedir.

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

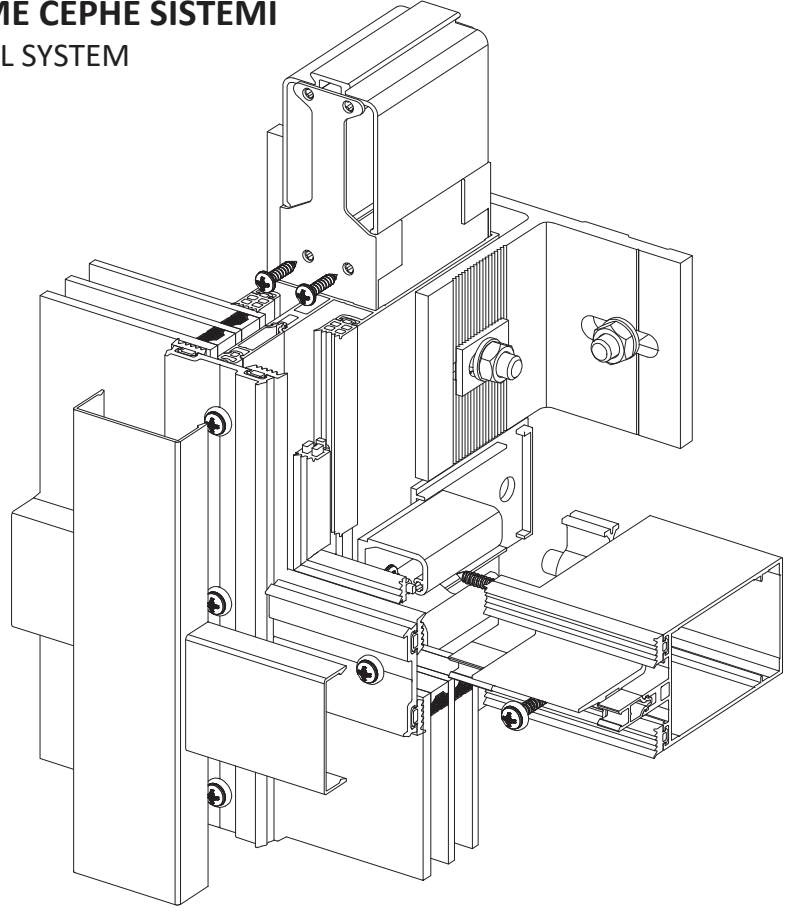
HIGH INSULATED CURTAIN WALL SYSTEM

İMALAT KOLAYLIĞI

F50 - Energy sisteminin sahip olduğu aksesuarlar mümkün olduğunca tek tipe indirgenerek standartlaşmaya önem verildi. Daha az çeşitte ve ortak kullanımda olan bu aksesuarların bir getirisi 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/m ² K - 2,9 W/m ² K

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 :	●

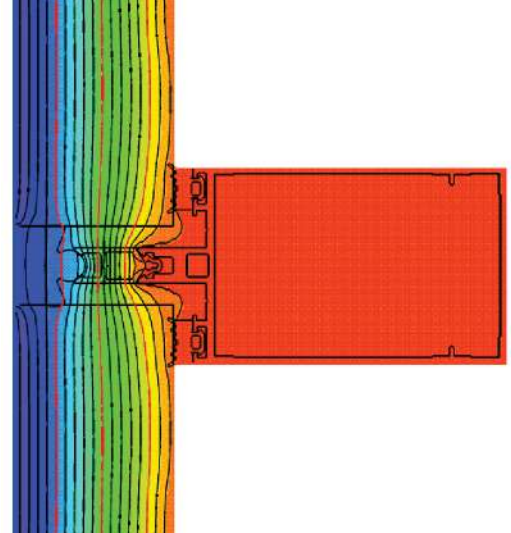
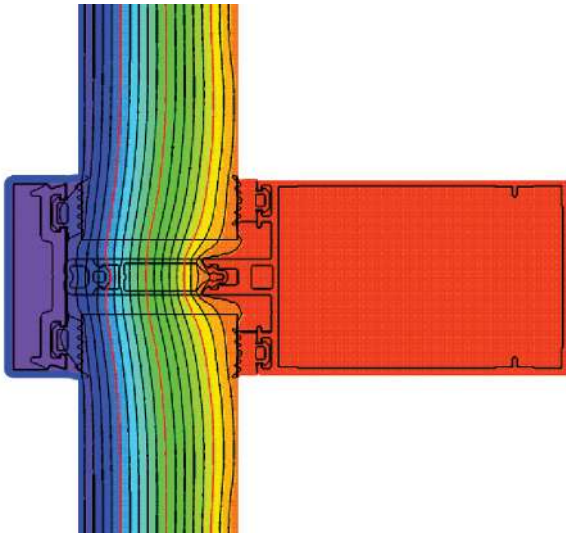
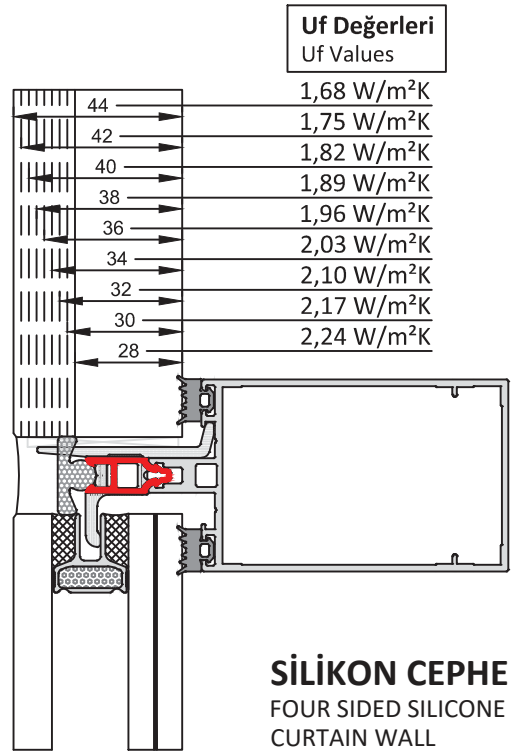
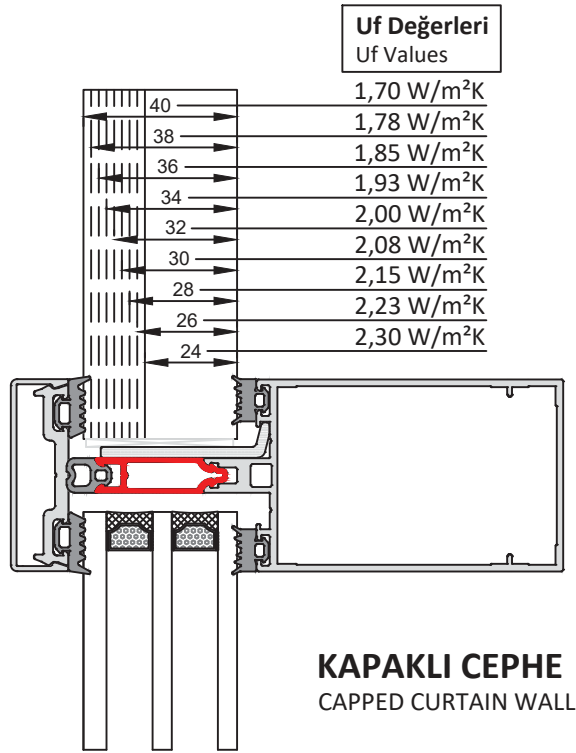
ISI YALITIM DEĞERLERİ THERMAL INSULATION VALUES

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 (Uf) düşer ve ısı yalıtım performansı artar.

Aşağıdaki sistem kesitleri üzerinde Uf 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 (Uf) will be lower.

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



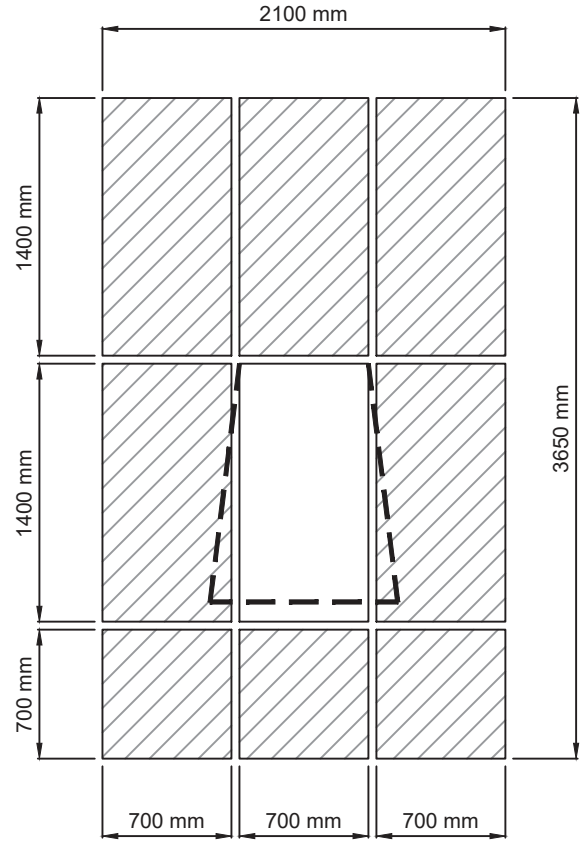
HAVA-SU-RÜZGAR PERFORMANS TEST SONUÇLARI - 1

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

SU SIZDIRMAZLIĞI - EN 12154
(WATERTIGHTNESS)

R4	R5	R6	R7	RE...	RE1500
(150 Pa)	(300 Pa)	(450 Pa)	(600 Pa)	(750+ Pa)	(1500 Pa)

RÜZGAR YÜKÜNE DAYANIM - EN 13116
(RESISTANCE TO WIND LOAD)

2000 Pa (Emniyet Testi: 3000 Pa)

** Akredite kuruluştan onaylı orijinal belge görseline kataloğun 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 reports.

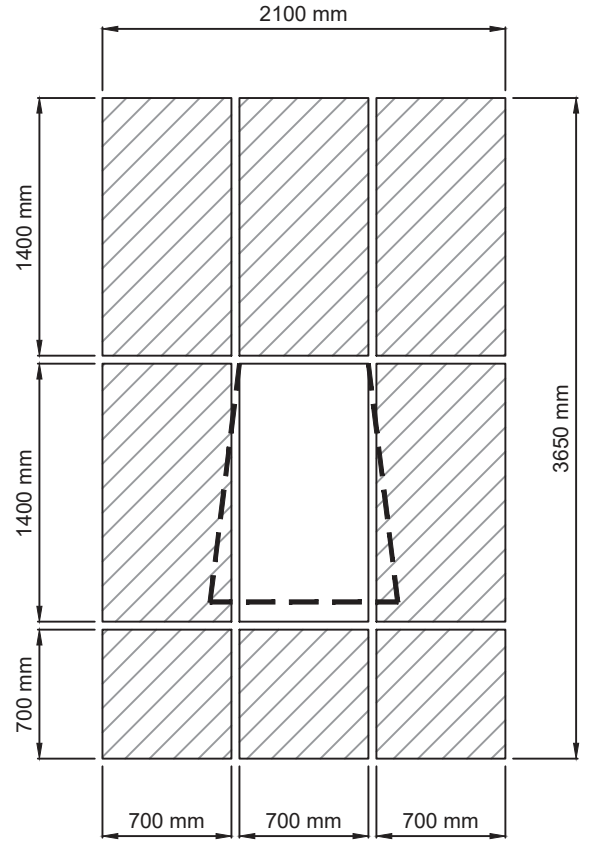
HAVA-SU-RÜZGAR PERFORMANS TEST SONUÇLARI - 2 AIR-WATER-WIND PERFORMANCE TEST RESULTS - 2

- 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)

SU SIZDIRMAZLIĞI - EN 12154
(WATERTIGHTNESS)

R4

(150 Pa)

R5

(300 Pa)

R6

(450 Pa)

R7

(600 Pa)

RE...

(750+ Pa)

RE1200

(1200 Pa)

RÜZGAR YÜKÜNE DAYANIM - EN 13116
(RESISTANCE TO WIND LOAD)

2000 Pa (Emniyet Testi: 3000 Pa)

- ** Akredite kuruluştan onaylı orijinal belge görseline kataloğun 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 reports.

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 kataloğun 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 reports.

F50-ENERGY

YÜKSEK YALITIMLI GIYDİRME CEPHE SİSTEMİ
HIGH INSULATED CURTAIN WALL SYSTEM

SİSTEMİN ÖNE ÇIKAN ÖZELLİKLERİ PROMINENT PROPERTIES OF THE SYSTEM

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

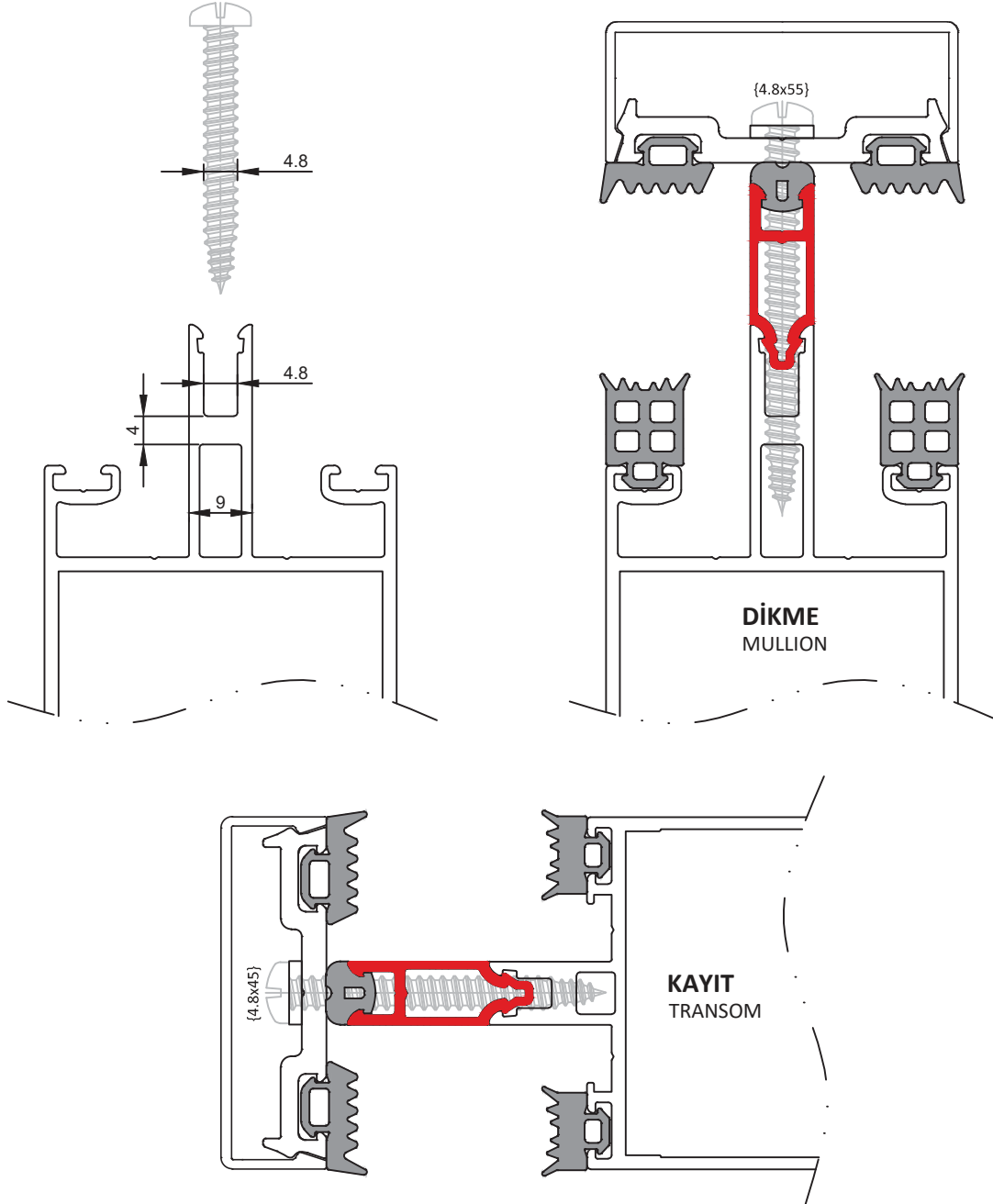
KOLAY VİDALAMA EASY SCREW

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 ısırmadan 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

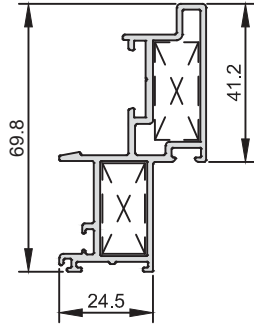
Cephe sistemlerinde kanat bölgeleri termal açıdan en zayıf bölgelerdir. Bu bölgede yaşanan terleme sorunları genellikle kasa yalıtımındaki zafiyetlerden ötürü gerçekleşmektedir.

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

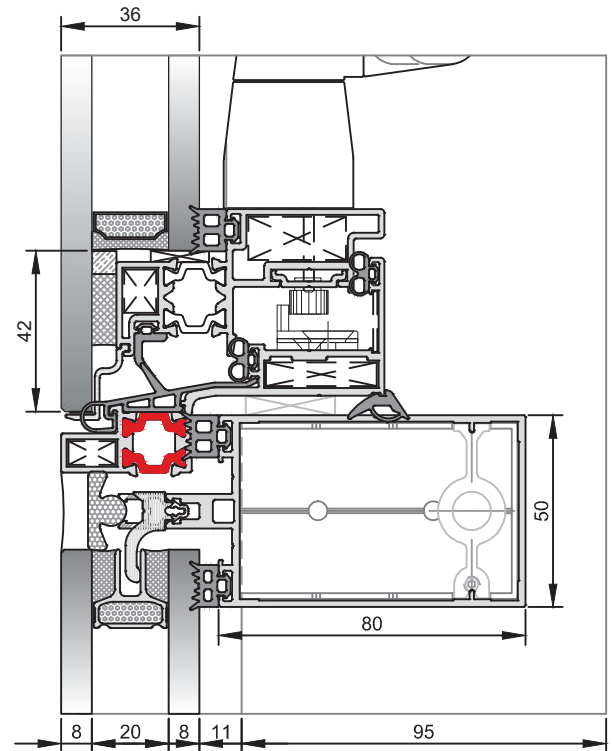
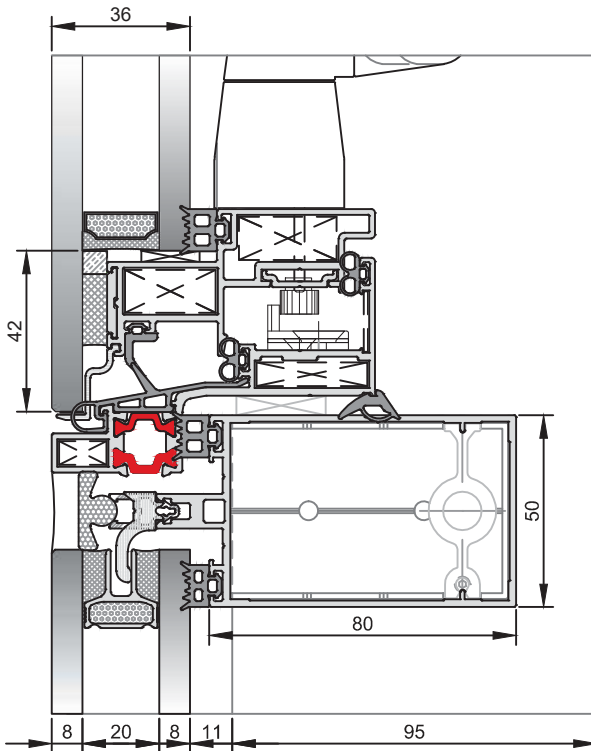
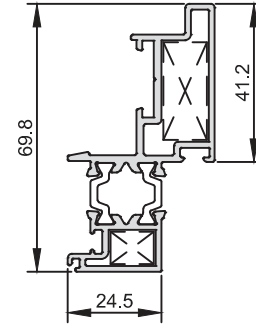
Thermally the weakest point in the curtain wall systems are opening vent areas. The condensation problems are usually result from the heat insulation issues on the frame.

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

Isı Yalıtımsız Kanat
Uninsulated Vent



Isı Yalıtımlı Kanat
Heat Insulated Vent



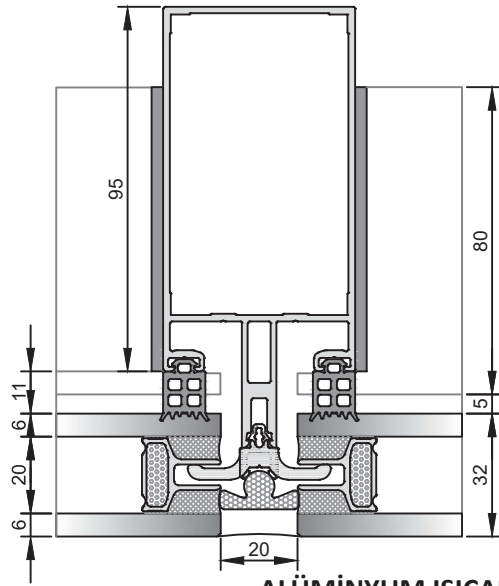
CAM CEPHEDE SICAK KENAR ANTI YOĞUŞMA ÇITASI KULLANIMI WARM EDGE SPACER USAGE IN FOURSIDED SILICONE CURTAIN WALL

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

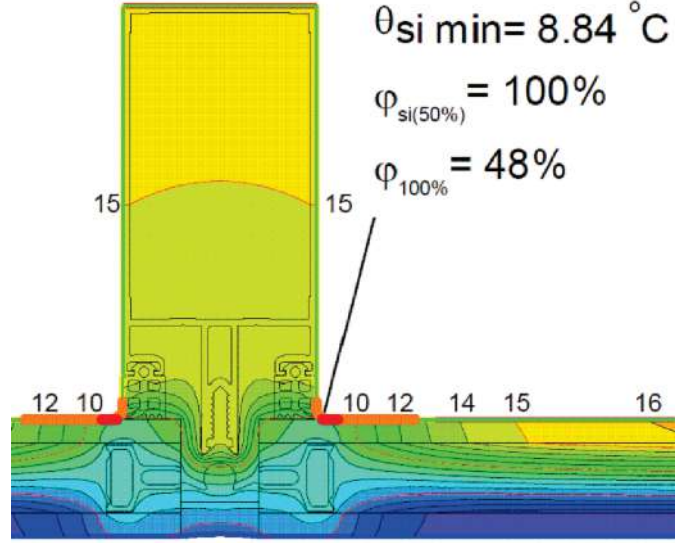
F50 - Energy sistemi sahip olduğu özel plastik kilitleme yuvaları sayesinde pvc malzemeden yapılmış olan sıcak kenar ısıcam çitalarının sorunsuz ve performanslı şekilde kullanımına imkan sağlamaktadır.

The biggest factor about thermal performance is glass. Standart 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.

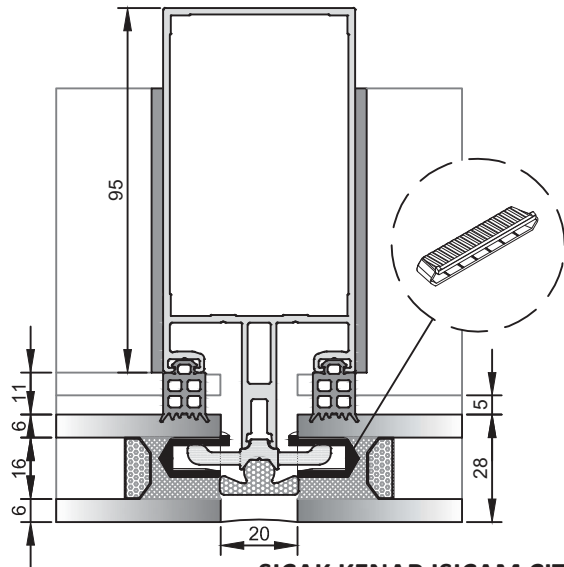


ALÜMİNYUM ISICAM ÇITASI
STANDARD ALUMINIUM SPACER

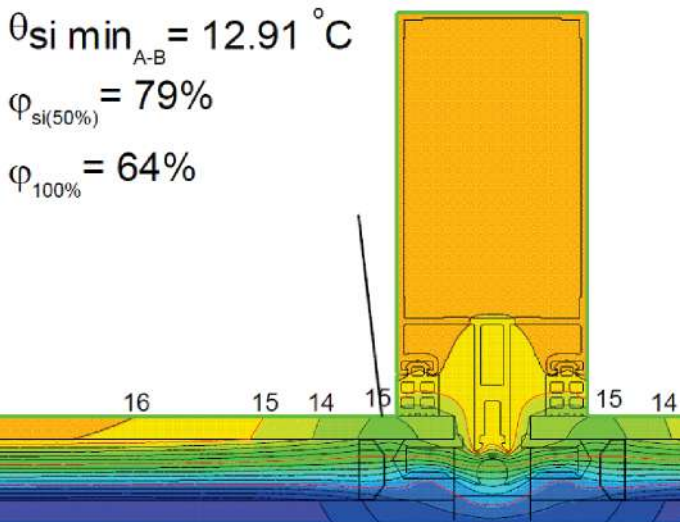


* Kırmızıyla işaretli olan bölgelerde yoğuşma görülmektedir.
There is condensation at the red marked areas.

Ug: 1,4 W/m²K değerinde cam ile 0°C dış ortam, 20°C iç ortam ve %50 bağıl nem koşullarına göre sistemde yoğuşma görülmemesi için minimum iç profil yüzey sıcaklığının (Q_{si min.}); 9,2°C olan yoğuşma başlangıç noktasının altında olmaması gerekir.
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 (Q_{si min.}), should be under the dewpoint beginning of 9,2°C.



SICAK KENAR ISICAM ÇITASI
WARM EDGE SPACER



* Hiçbir noktada yoğuşma görülmemektedir.
There is no condensation at any point.

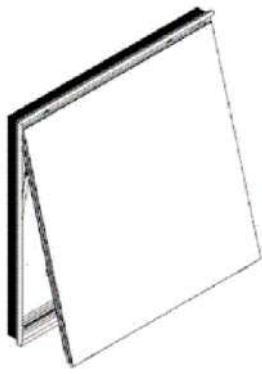
DIŐA PARALEL AÇILIR KANAT PARALEL OUTWARD OPENING VENT

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

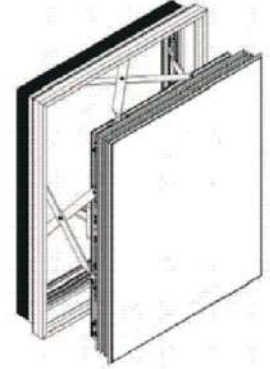
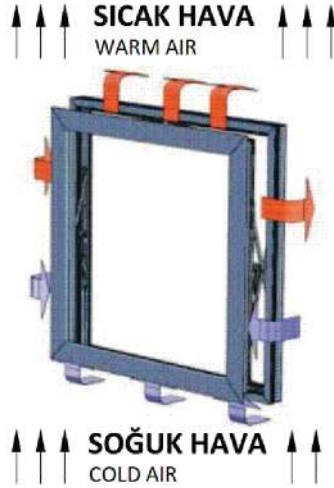
Ters vasistas tip kanatlarda cepheye dıŐarıdan bakıldığında açık olan kanat bölümlerinde ışığın farklı kırılmasına ve o bölümde sanki delik varmış hissi oluşmasına neden olur. Havalandırma konusunda ise, oda içerisinde ısınan hava yukarı yönde hareket etmek isteyeceğinden paralel açılım kanatlarda hava tahliye hızı ters vasistasla oranla 3 kat fazladır. Bu da odanın çok daha hızlı havalanması 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 paralel 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.

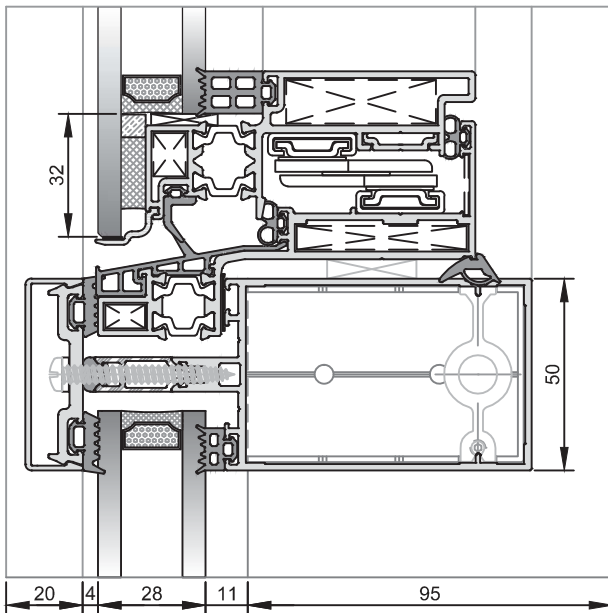


DıŐa Ters Vasistas Açılım
Top hung outward opening



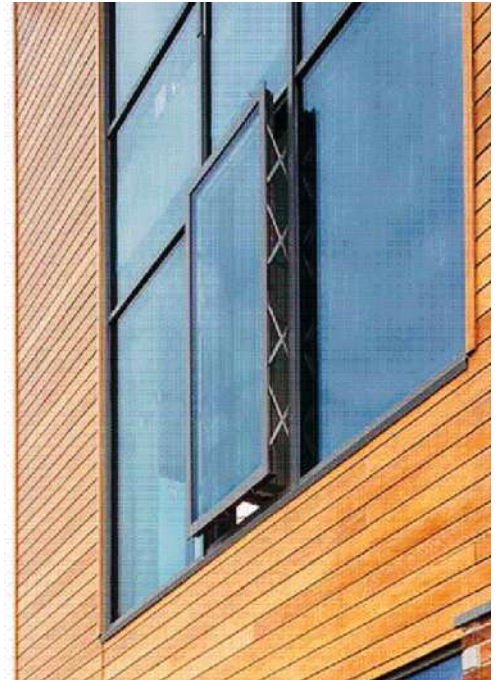
DıŐa Paralel Açılım
Parallel Outward Opening

PARALEL KANAT DETAYI / PARALEL VENT DETAIL:



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

ÖRNEK UYGULAMA / SAMPLE APPLICATION:



ÖZEL DİLATASYON KAPAKLARI SPECIAL DILATATION PLUGS

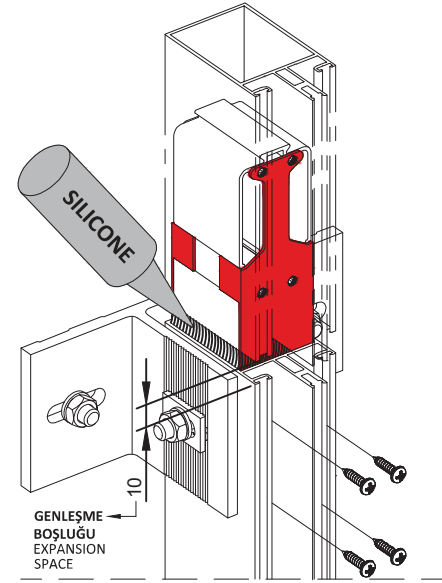
1. BOŞLUKSUZ SİLİKON UYGULAMASI / GAP FREE SILICONE APPLICATION

Genleşme boşluğuna silikon uygulaması yapılırken, silikonun bir kısmı profil içerisine 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.



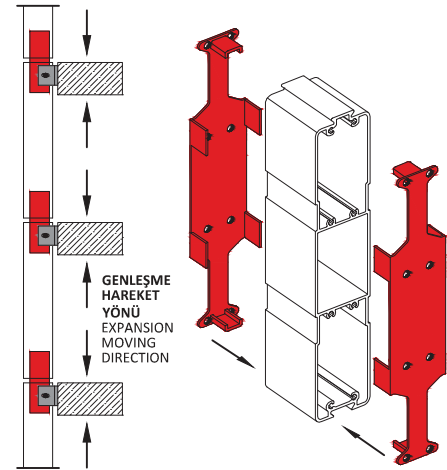
2. GENLEŞME GÜRÜLTÜSÜ ENGELLEME / PREVENTING EXPANSION NOISE

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

F50 - Energy sisteminin sahip olduğu özel dilatasyon kapakları sayesinde, genleşme esnasındaki sürtünmeler metaller ile plastik kapaklar arasında oluşmaktadır. 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.



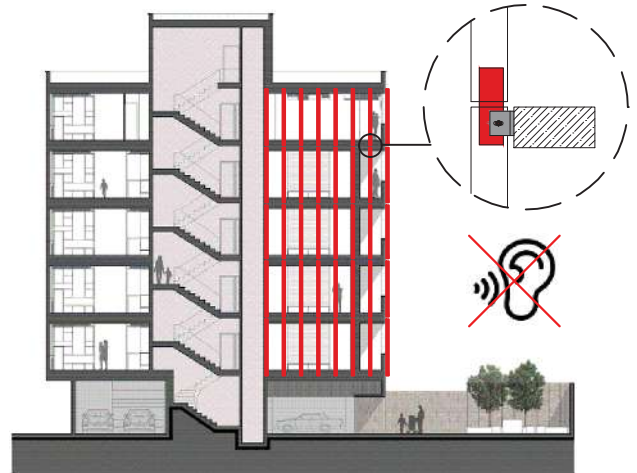
3. KATLAR ARASI SES İZOLASYONU / SOUND ISOLATION BETWEEN FLOORS

Dilatasyon bölgesinde metal metale temas eden bir ilişki varsa, ortamda oluşan ses dalgaları taşıyıcılara çarptığında titreşim oluşturmakta 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 sönümlemekte, beraberinde taşıyıcılar içerisindeki boşluklardaki yankı 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.

F50-Energy system has special dilatation plugs and they provide the friction between metals & plastics. Therefore sound vibration level dramatically drops and prevent being echo inside the supporter profiles.



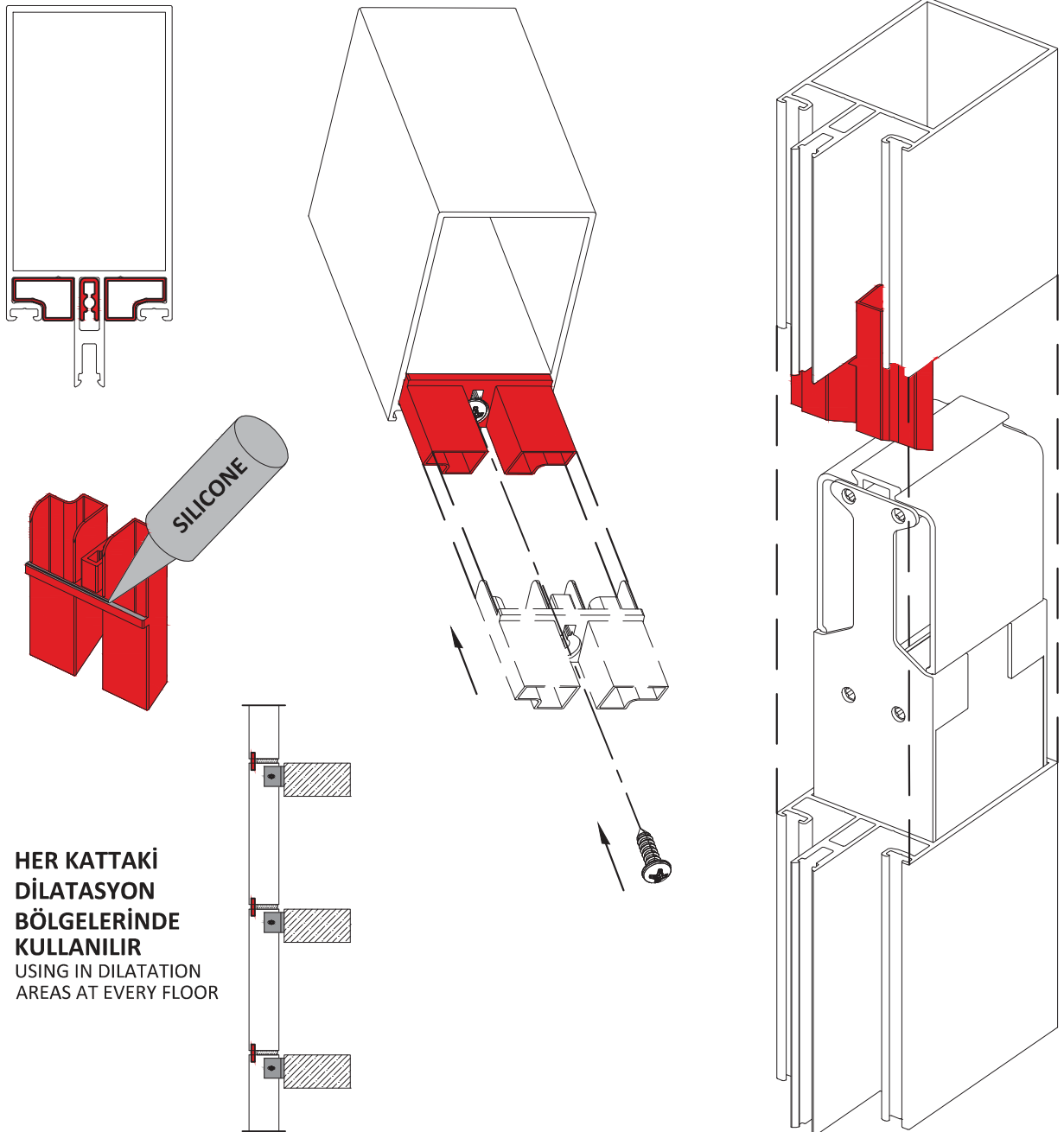
KONDENS YOLU İÇİN ÖZEL BAĞLANTI PARÇASI SPECIAL CONNECTION PIECE FOR THE CONDENSATION LINE

Yapıda özellikle kış aylarında iç ve dış ortam sıcaklık farklarından ötürü yoğuşma suları oluşmakta ve kondens kanalları aracılığıyla cephenin en alt bölümünden dışarı atılmaktadır. Oluşan yoğuşma suları üst katlarda damlamalar şeklinde görülürken, 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

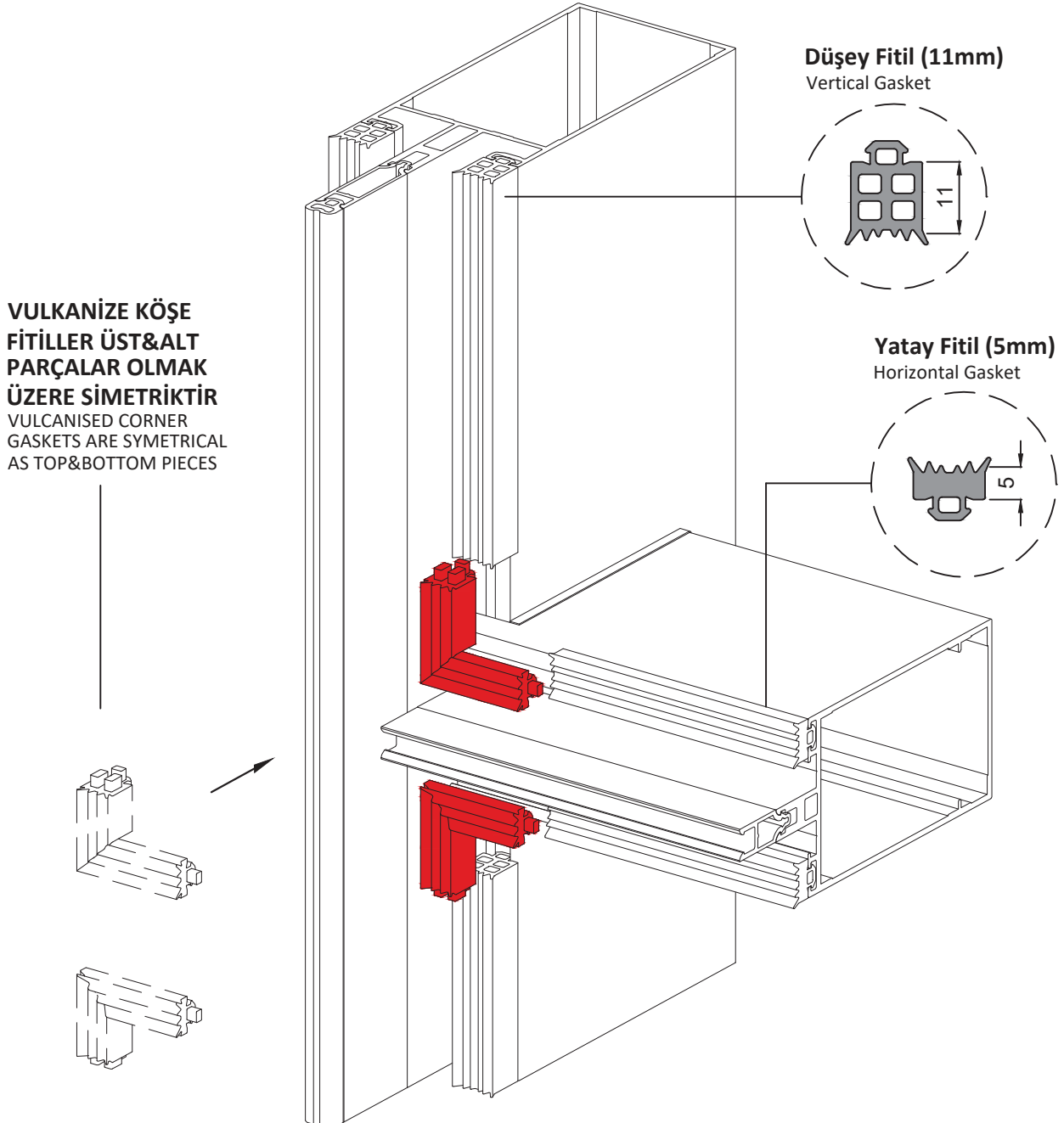
VULCANISED INNER CORNER PIECES

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 fitil ile yataydan gelen 5mm'lik fitil 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.

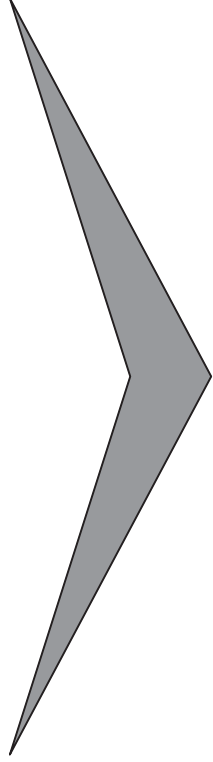
Air coming from outside to inside with draine holes and condensation channel is rounding in the curtain wall. The only thing to prevent air passing into the system is the inner gaskets.

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 excellent corner connection also provides speed&easy manufacturing and prevents potential workmanship mistakes.


















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












- **KATALOGDA BELİRTİLEN TÜM PROFİL AĞIRLIKLARI TEORİK OLUP PROFİLLERİN PRES(HAM) HALLERİNE AİTTİR. ISI BARIYERİ ÇEŞİDİNE VEYA PROFİL YÜZEYİNDEKİ BOYA KALINLIKLARINA BAĞLI OLARAK AĞIRLIK FARKLILIKLARI OLUŞABİL MEKTEDİR. 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

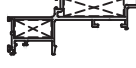
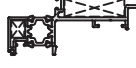













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PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP116	DİKME PROFİLİ (195 mm/2.3 mm) MULLION PROFILE		3,449	32
FP117	DİKME PROFİLİ (195 mm/2.3 mm) MULLION PROFILE		3,756	32
FP118	DİKME PROFİLİ (215 mm/2.4 mm) 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		1,235(PVC) 1,224(POL)	40
FP303	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,256(PVC) 1,245(POL)	41
FP304	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,272(PVC) 1,261(POL)	41
FP305	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,442(PVC) 1,431(POL)	42
FP306	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,458(PVC) 1,447(POL)	42
FP326	YALITIMSIZ KANAT PROFİLİ UNINSULATED VENT PROFILE		0,903	40
FP327	YALITIMSIZ KANAT PROFİLİ UNINSULATED VENT PROFILE		1,035	41
FP328	YALITIMLI KANAT PROFİLİ INSULATED VENT PROFILE		1,236(PVC) 1,225(POL)	41














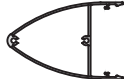
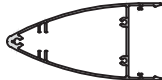
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PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP329	YALITIMSIZ KANAT PROFİLİ UNINSULATED VENT PROFILE		1,250	42
FP330	YALITIMLI KANAT PROFİLİ INSULATED VENT PROFILE		1,453(PVC) 1,443(POL)	42
FP359	SPANDREL BÖLGE PANEL PROFİLİ PANEL PROFILE FOR SPANDREL AREA		0,437	43
FP360	SPANDREL BÖLGE PANEL PROFİLİ PANEL PROFILE FOR SPANDREL AREA		0,385	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		0,318	50
FP379	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,331	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
















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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 ISICAM ÇITASI 20mm SPECIAL GLASS SPACER		0,240	43
FP399	YAPIŞMA YÜZEY PROFİLİ BONDING SURFACE PROFILE		0,109	43
FP400	KANAT CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE FOR VENT		0,084	51
FP401	KANAT CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE FOR VENT		0,117	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














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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

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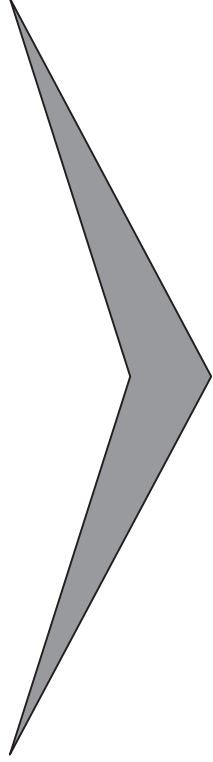
PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP467	KAPAK PROFİLİ (150 mm) CAP PROFILE		1,885	48
FP468	KAPAK PROFİLİ (200 mm) CAP PROFILE		2,779	48
FP479	DIŞ KÖŞE DÖNÜŞ KAPAK PROFİLİ OUTER CORNER CAP PROFILE		1,804	49
FP480	İÇ KÖŞE BASKI KAPAK PROFİLİ INNER 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		0,527	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		0,235	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		0,154	43

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PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP494	CAM ÇİTASI (16 mm) GLAZING BEAD		0,183	43
FP495	CAM ÇİTASI (18 mm) GLAZING BEAD		0,196	43
FP496	CAM ÇİTASI (20 mm) GLAZING BEAD		0,209	43
FP497	CAM ÇİTASI (22 mm) GLAZING BEAD		0,222	43
FP498	CAM ÇİTASI (30 mm) GLAZING BEAD		0,274	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		1,040	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 BARIYERİ ÇEŞİDİNE VEYA PROFİL YÜZEYİNDEKİ BOYA KALINLIKLARINA BAĞLI OLARAK AĞIRLIK FARKLILIKLARI OLUŞABİL MEKTEDİR. 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 polyamid*) : Elokso ve toz boya işleminden **önce** yerleştirilir. (*Placed into the aluminium profiles before anodic oxidation and powder coating.*)

b- PVC :

Elokso ve toz boya 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 Polyamid insulation bars .*)

4-Elokso (*Anodic Oxidation*)

Elokso Ürünleri İlişkin Teknik Resim Standardı : **DIN 17611** , **EN 12371-1 (QUALANOD)**
(*The Standarts of Technical Delivery Terms Regarding Eloxal Products*)

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

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

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

5-Toz Boya Standartları (*The Standarts 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 stratches cramped shapes,swellings,stain etc. on the exposed areas.*)

7-Tüm Fitiller (*All gaskets*)

Hammadde (*Raw material*) : EPDM

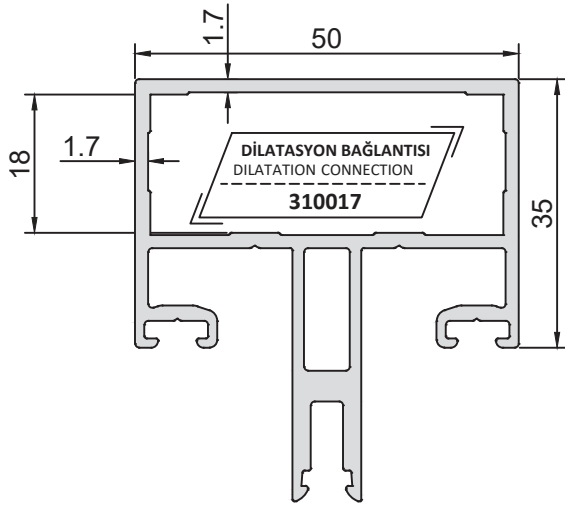
Derz fitilleri hammaddesi (*Raw material of Gaskets for suture*) : Silikon (*Silicone*)

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

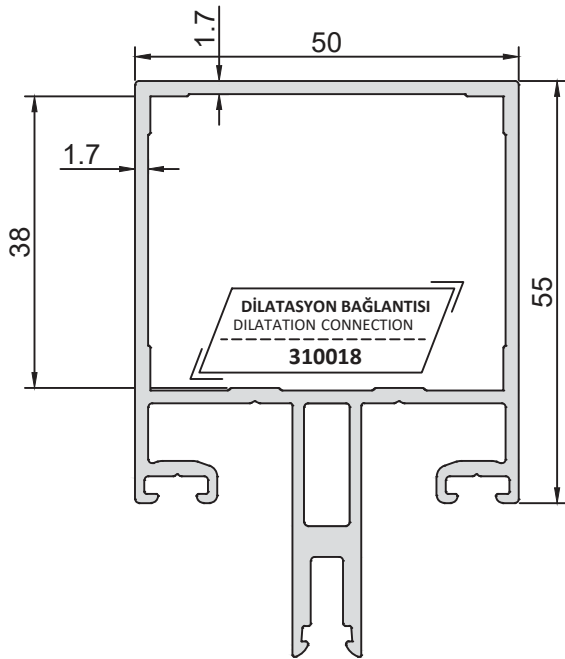
Kalite Kontrol Standardı (*Quality Control Standart*) : **RAL-GZ 716**

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

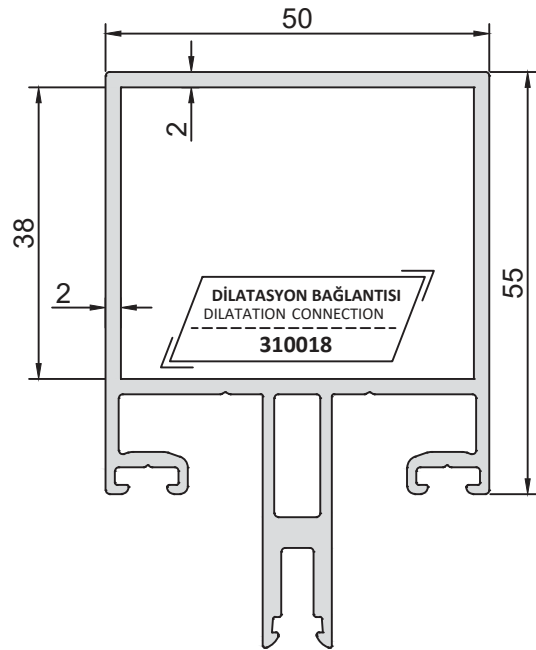
(*Measurement Tolerances Standarts for Profile Design and Manufacturing*)



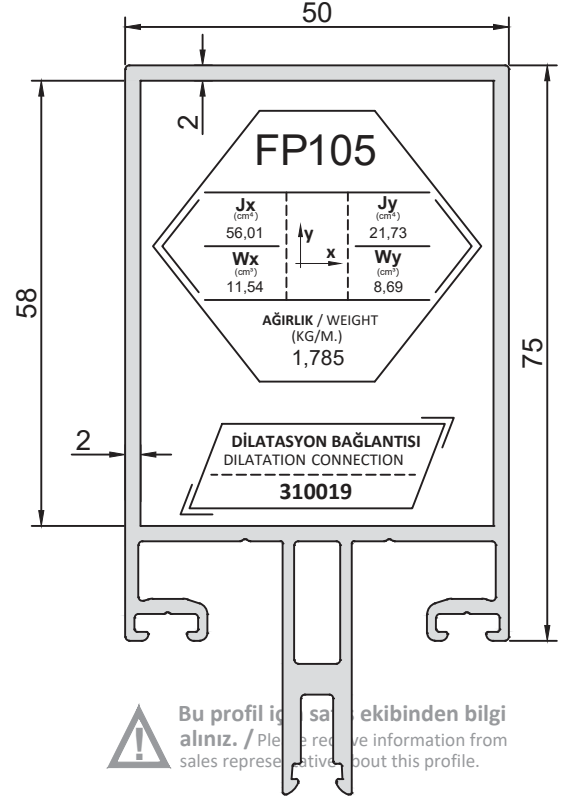
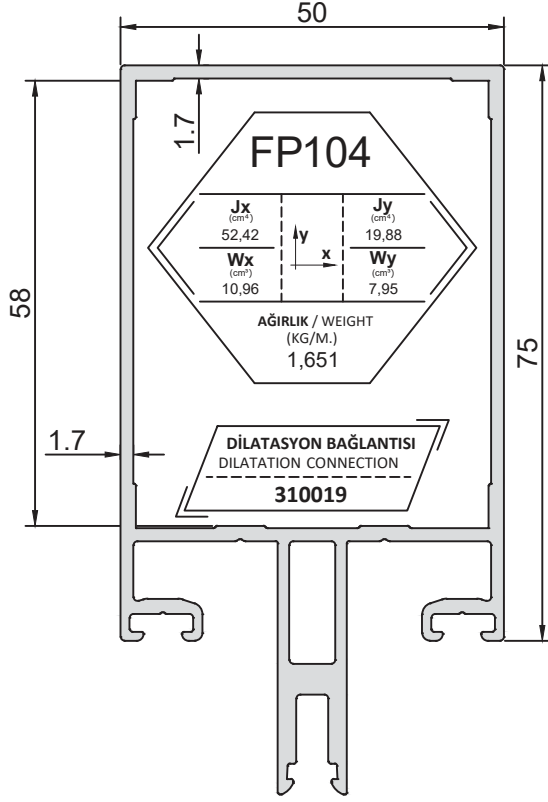
FP101			
J_x (cm ⁴)	y x	J_y (cm ⁴)	
10,93		11,95	
W_x (cm ³)		W_y (cm ³)	
3,41		4,78	
AĞIRLIK / WEIGHT (KG/M.) 1,283			



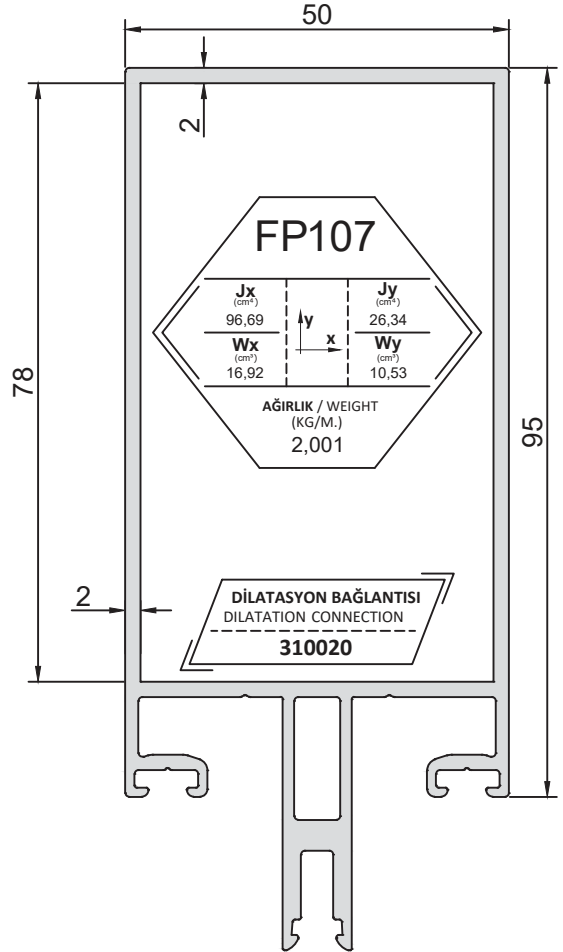
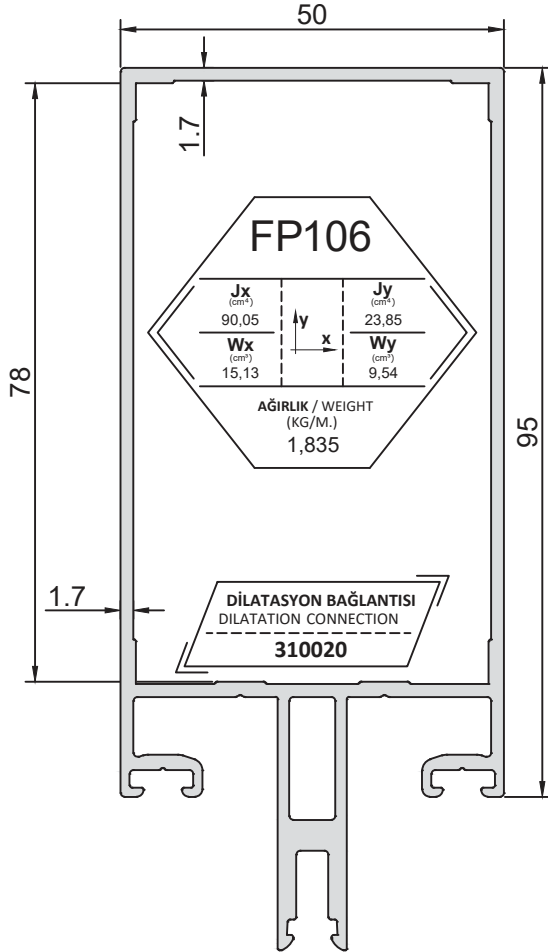
FP102			
J_x (cm ⁴)	y x	J_y (cm ⁴)	
26,56		15,92	
W_x (cm ³)		W_y (cm ³)	
6,76		6,37	
AĞIRLIK / WEIGHT (KG/M.) 1,467			



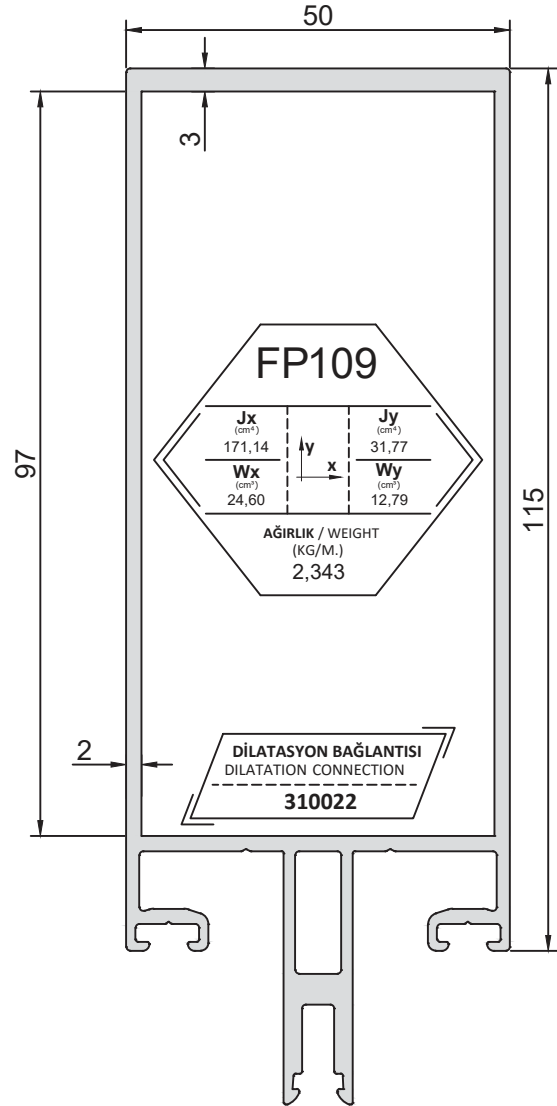
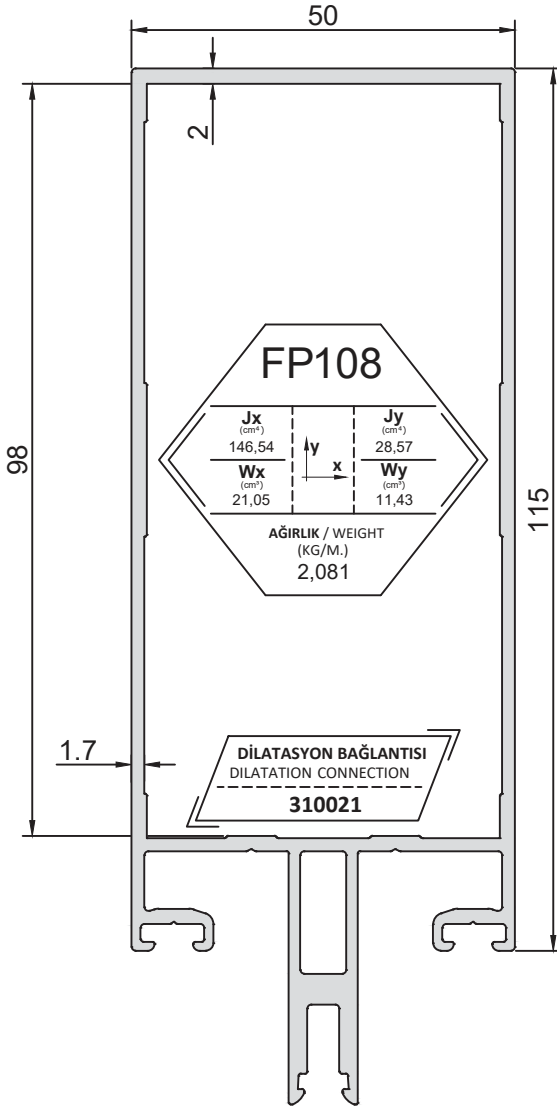
FP103			
J_x (cm ⁴)	y x	J_y (cm ⁴)	
28,18		17,13	
W_x (cm ³)		W_y (cm ³)	
6,99		6,85	
AĞIRLIK / WEIGHT (KG/M.) 1,568			



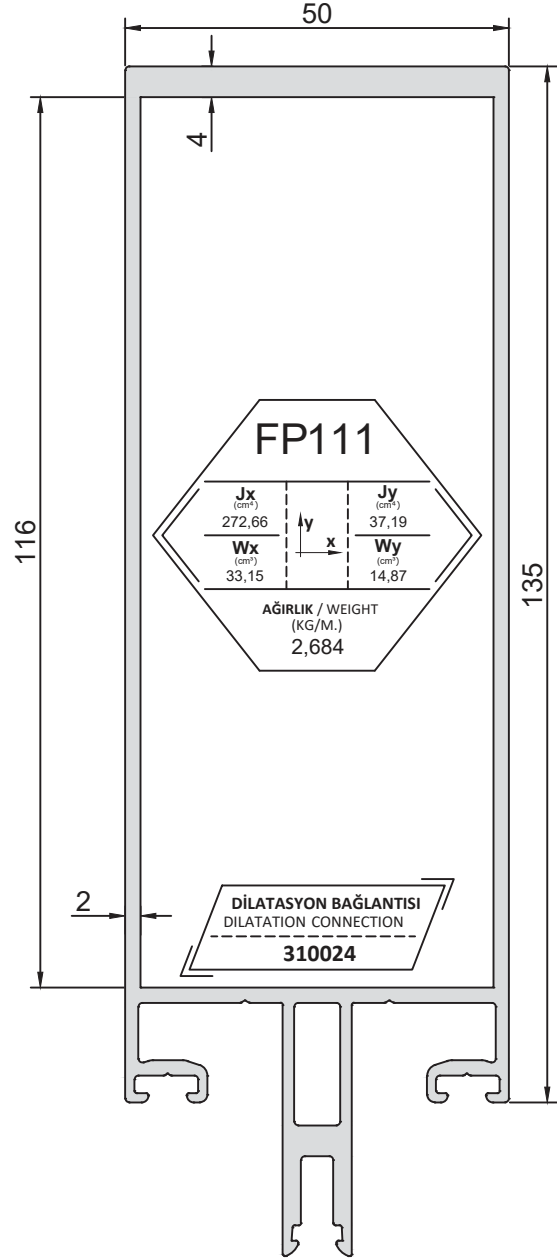
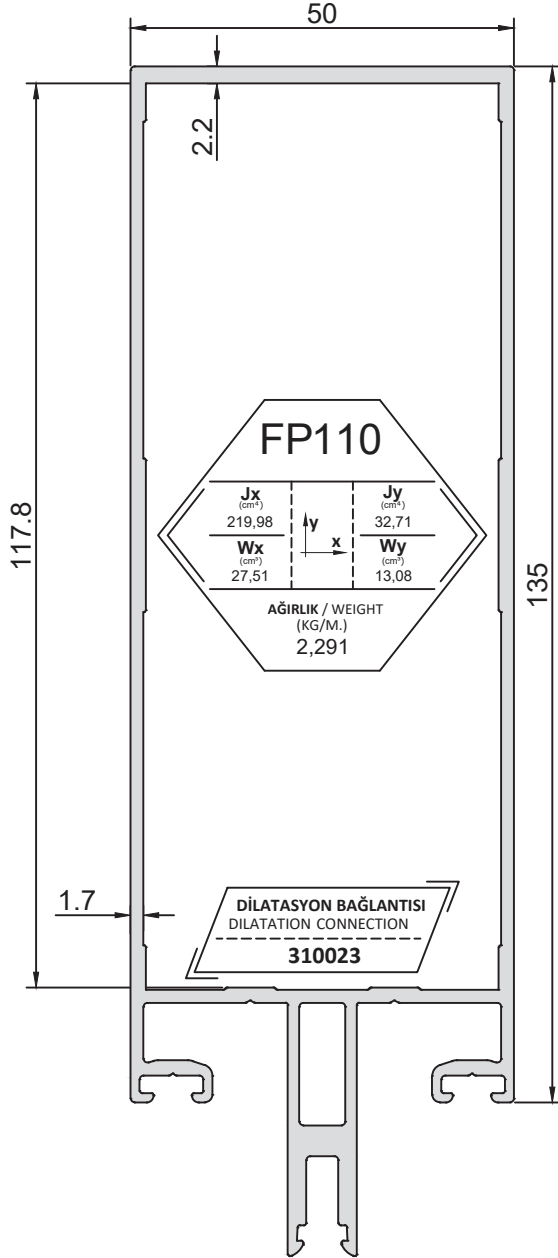
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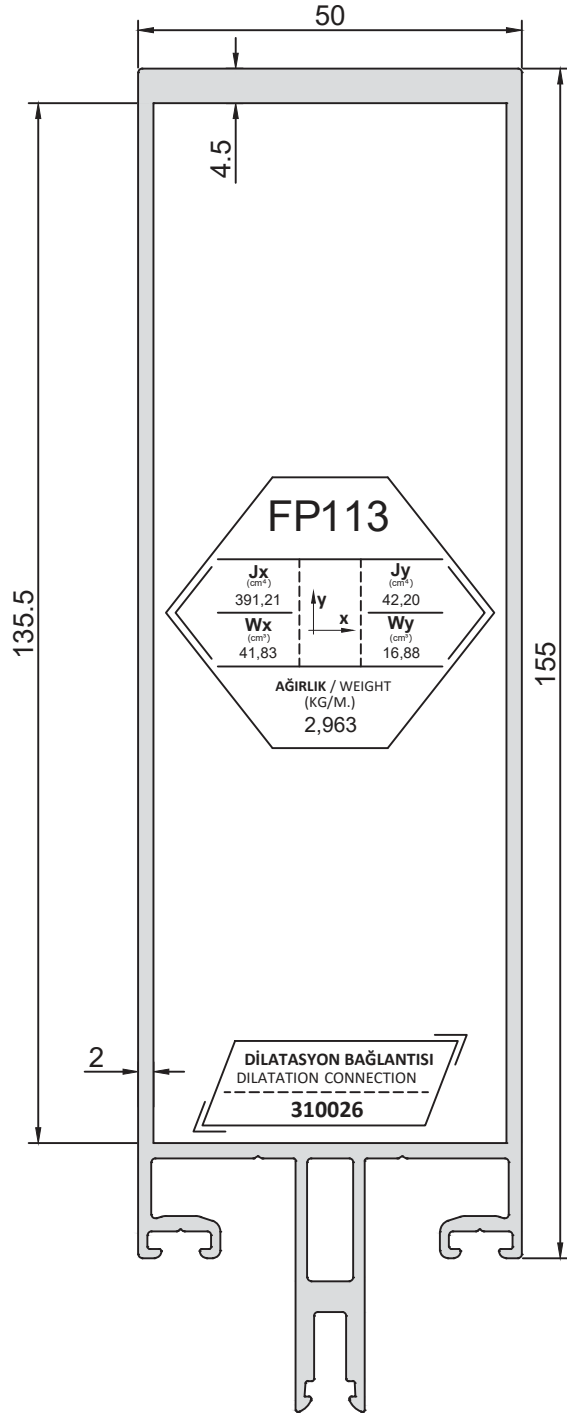
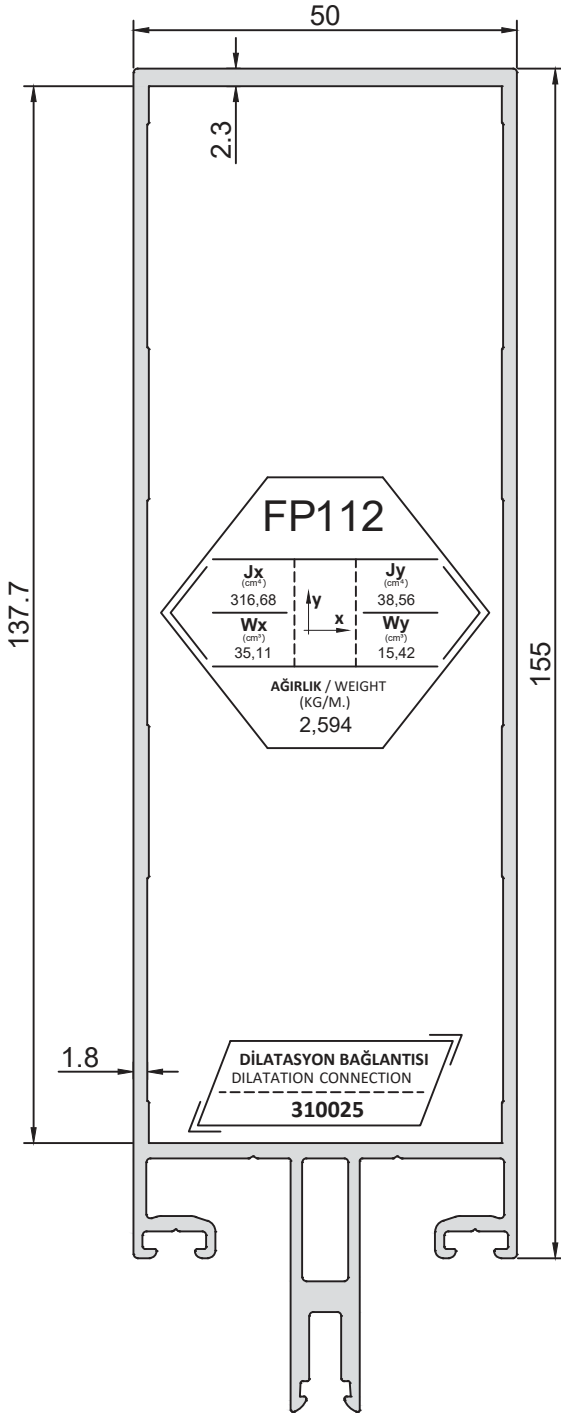
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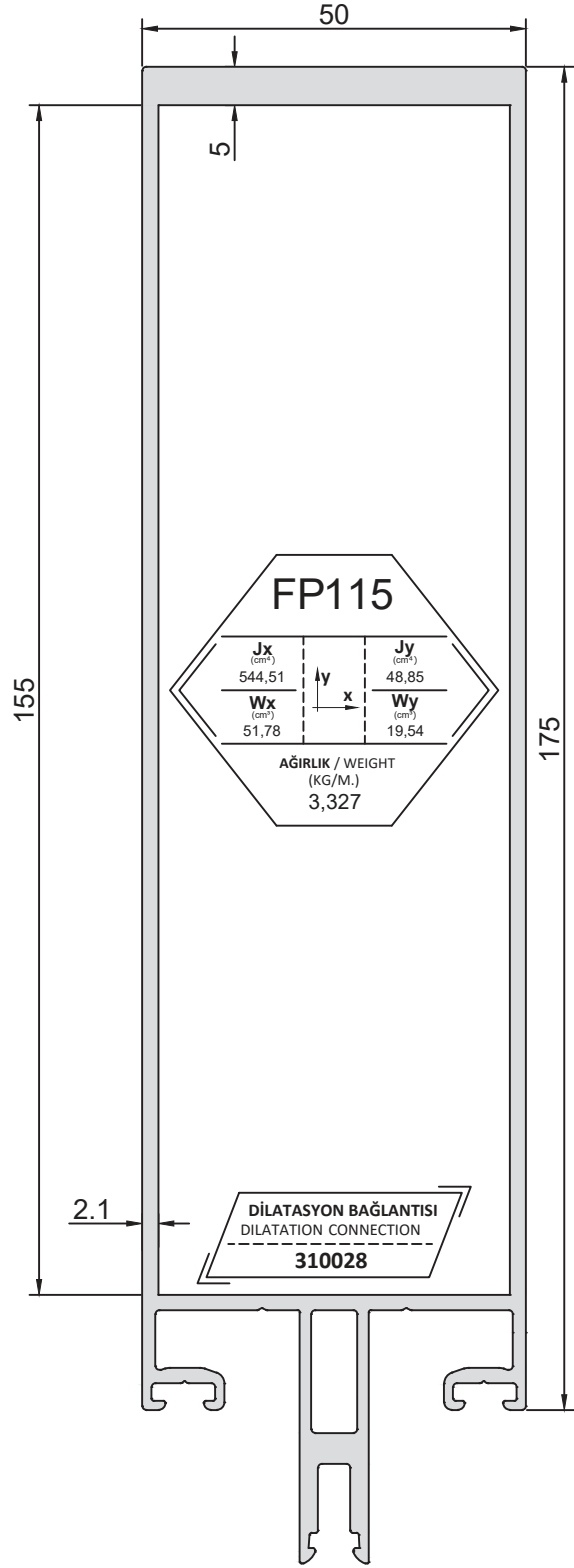
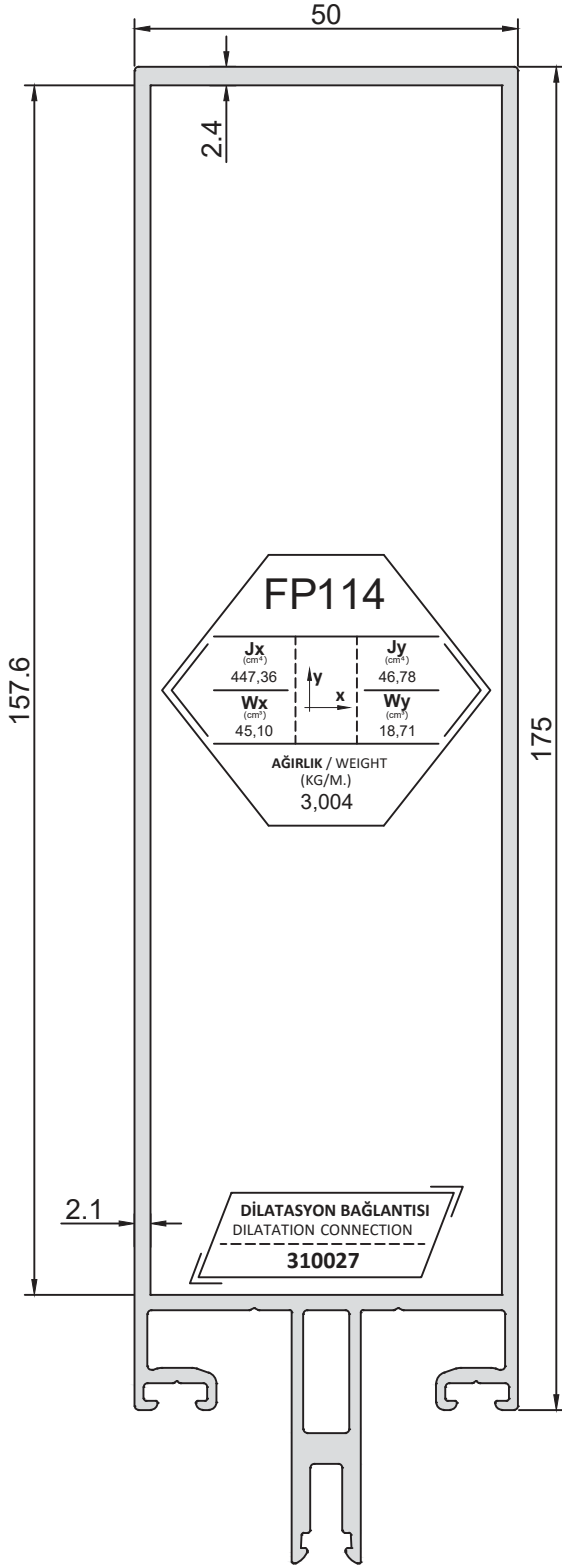


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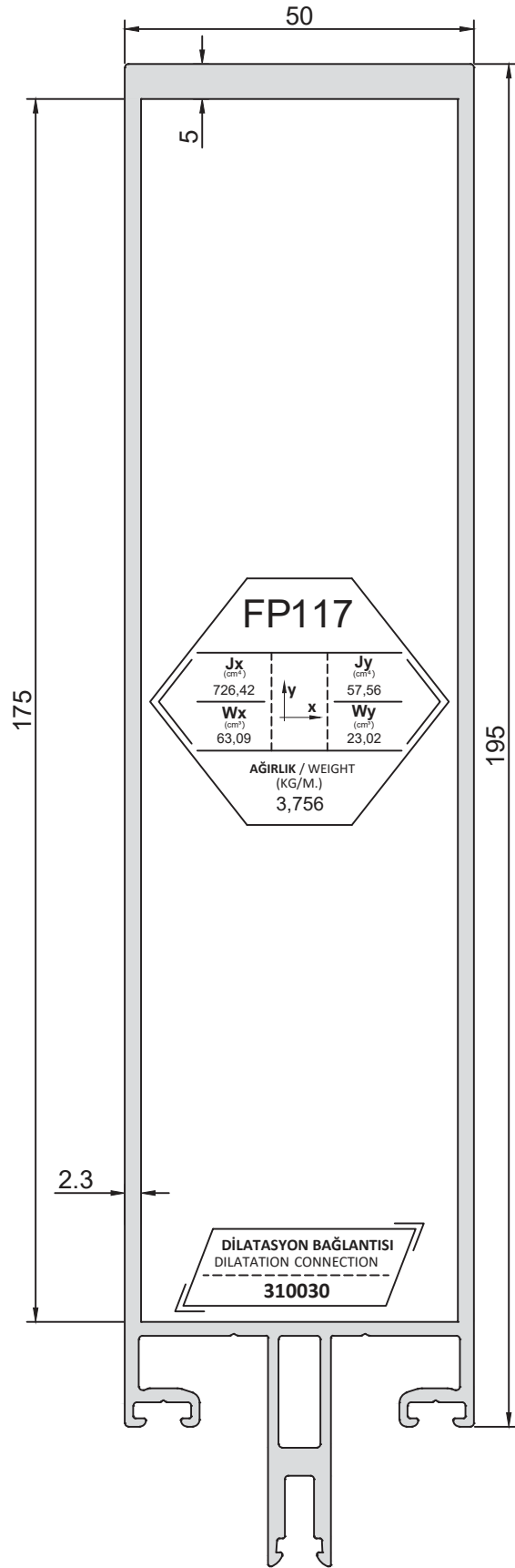
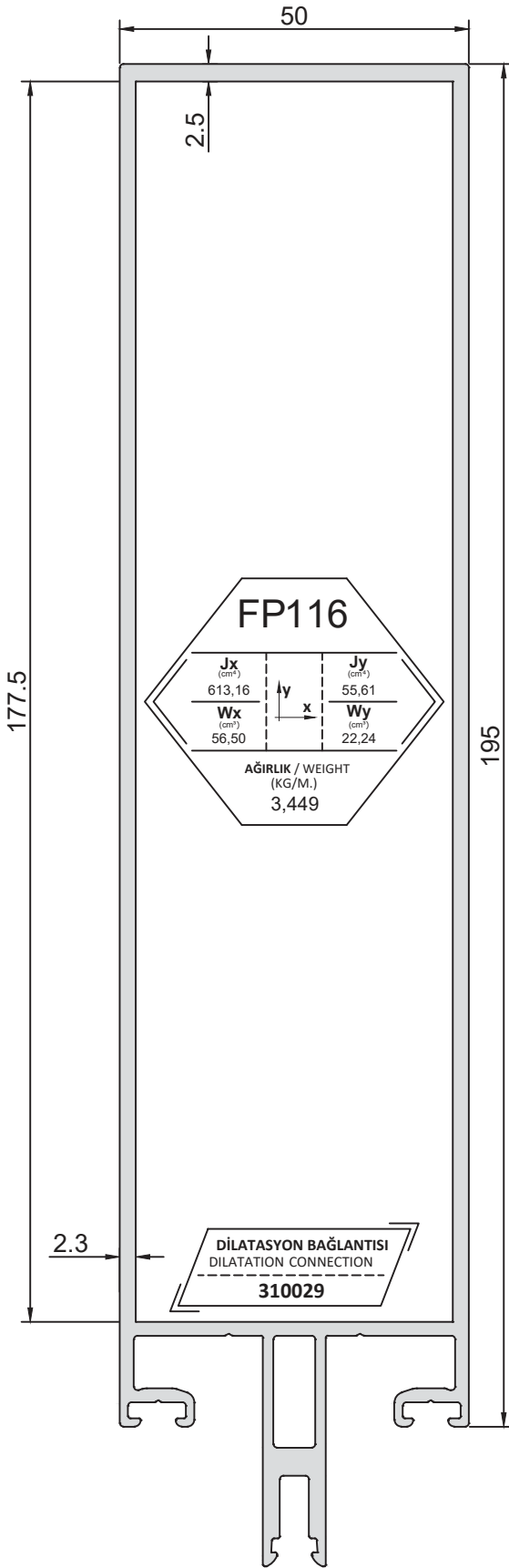


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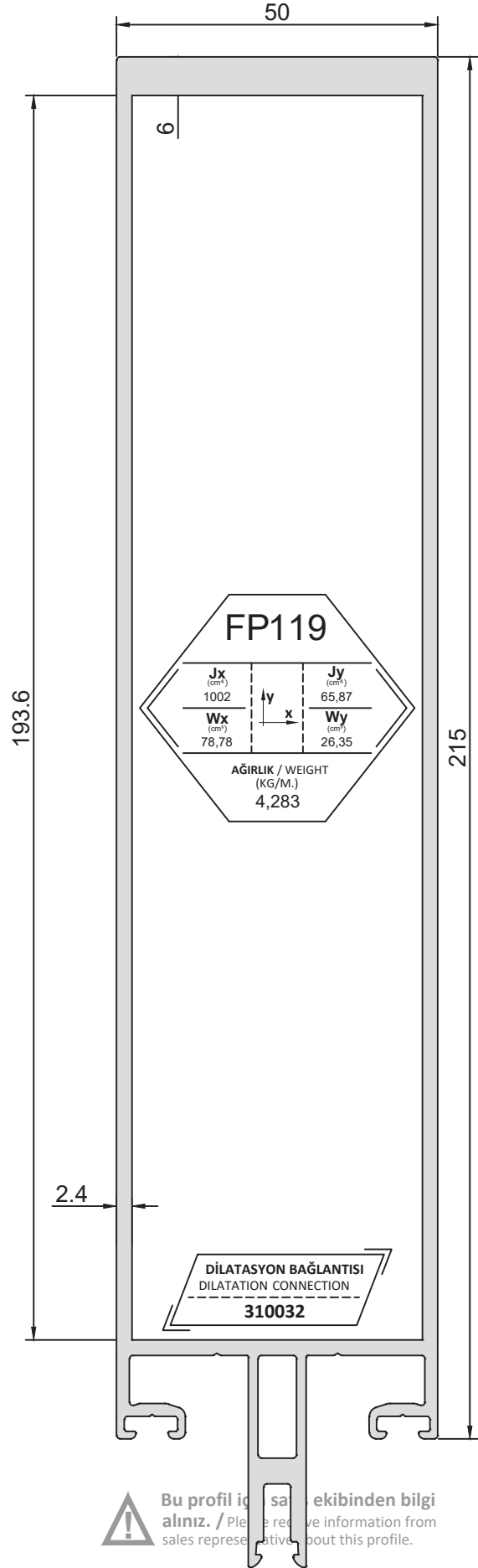
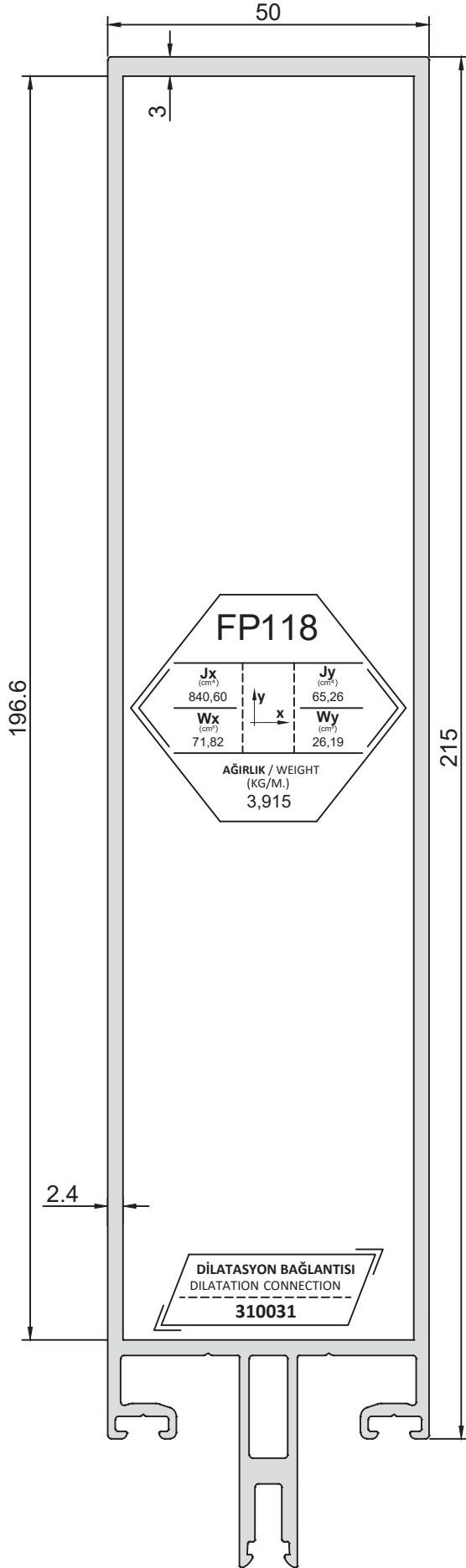




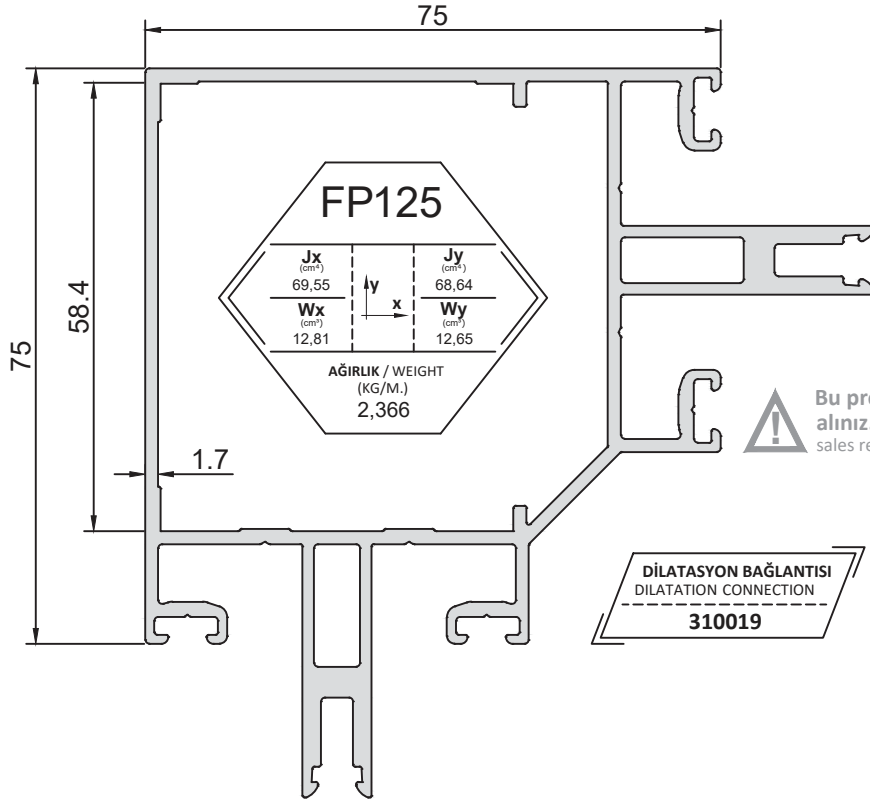
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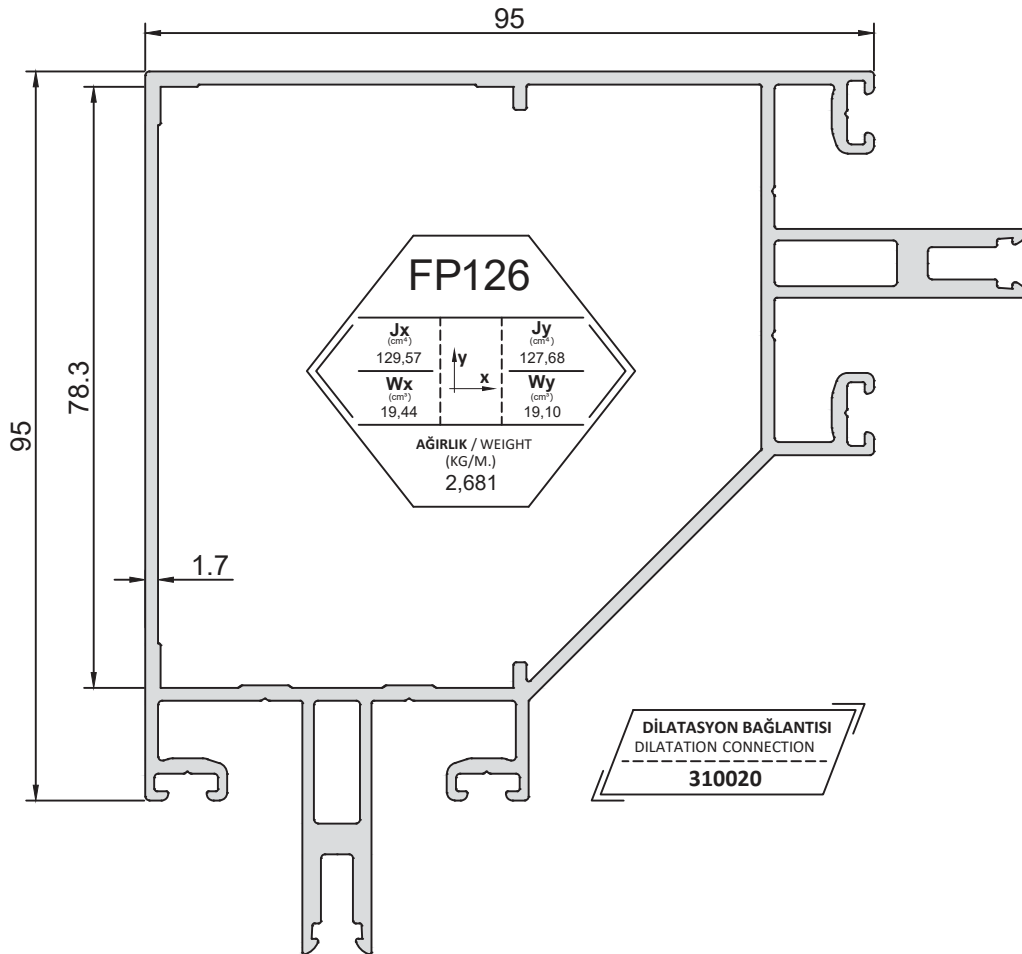
F50-ENERGY

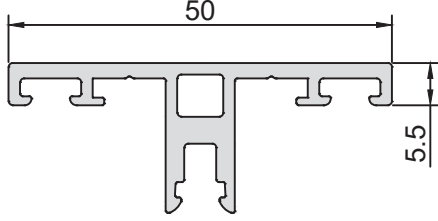


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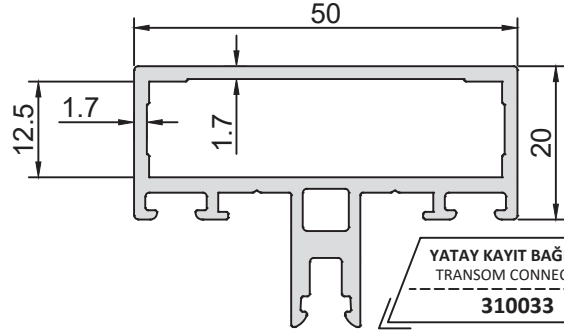


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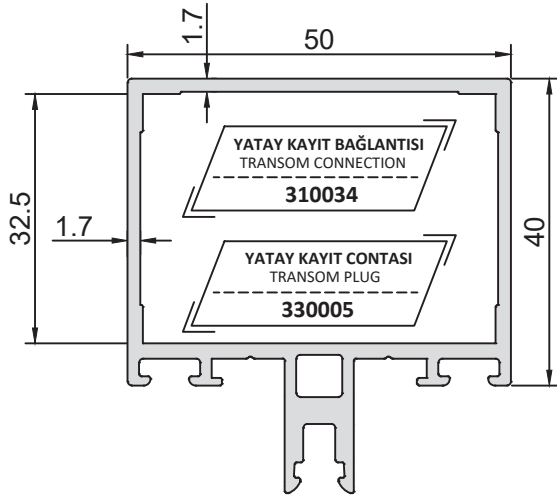
FP151			
J_x (cm ⁴)	l_y x l_x	J_y (cm ⁴)	
0,56		3,32	
W_x (cm ³)		W_y (cm ³)	
0,38		1,33	
AĞIRLIK / WEIGHT (KG/M.) 0,567			



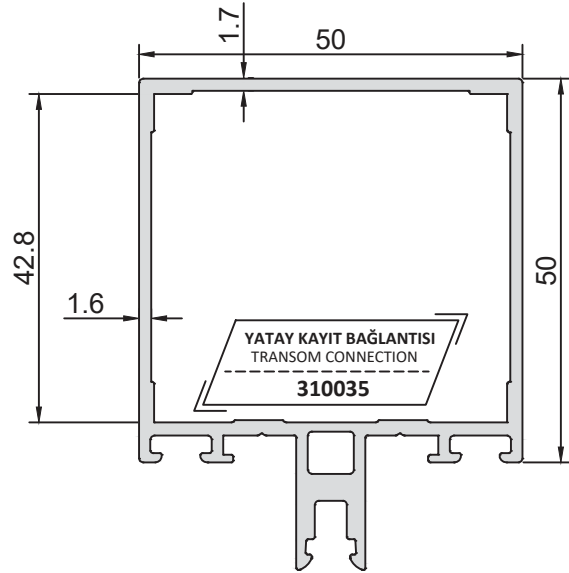
FP152			
J_x (cm ⁴)	l_y x l_x	J_y (cm ⁴)	
2,91		7,95	
W_x (cm ³)		W_y (cm ³)	
1,40		3,18	
AĞIRLIK / WEIGHT (KG/M.) 0,933			

YATAY KAYIT BAĞLANTISI
TRANSOM CONNECTION
310033

YATAY KAYIT CONTASI
TRANSOM PLUG
330004

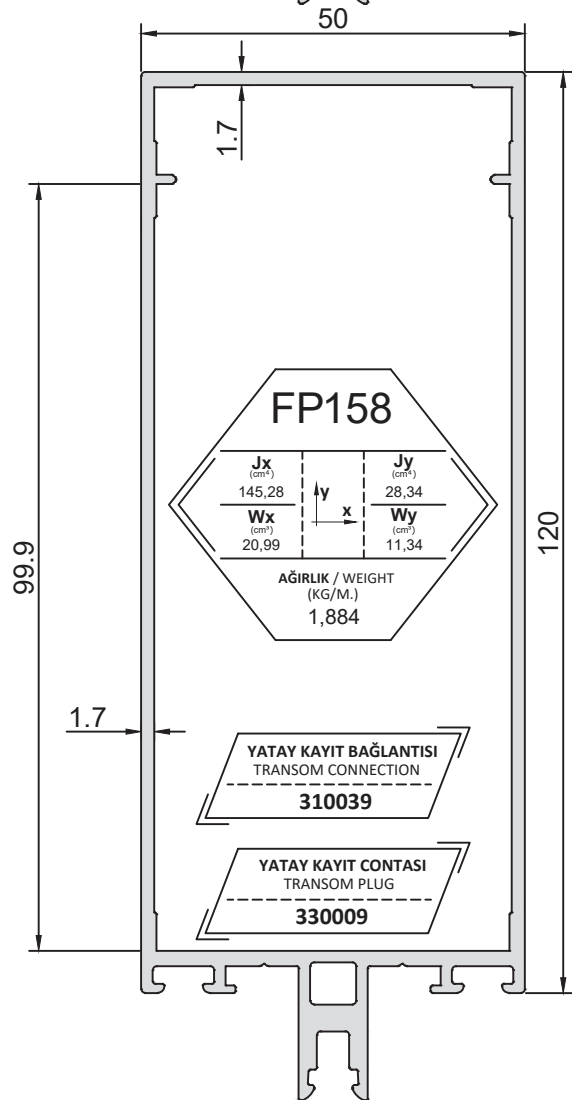
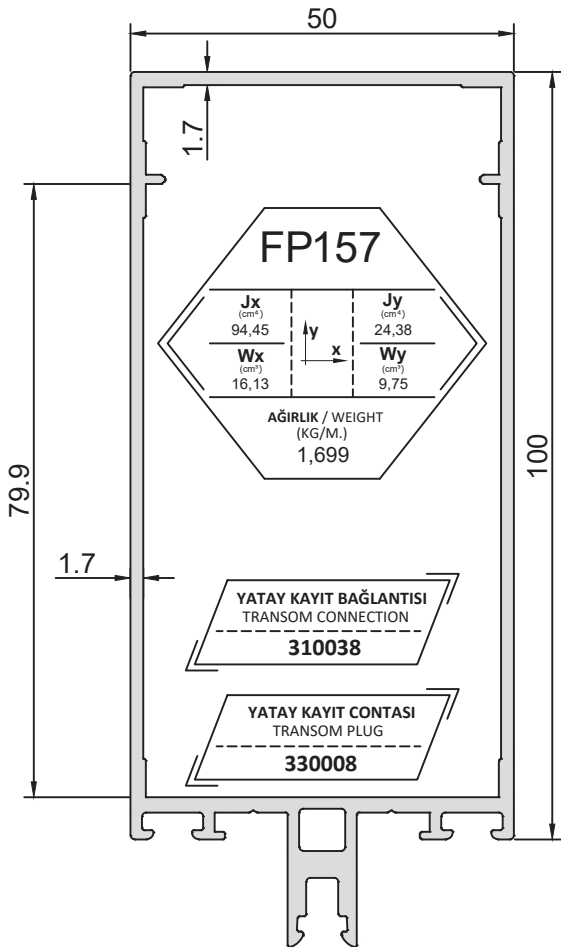
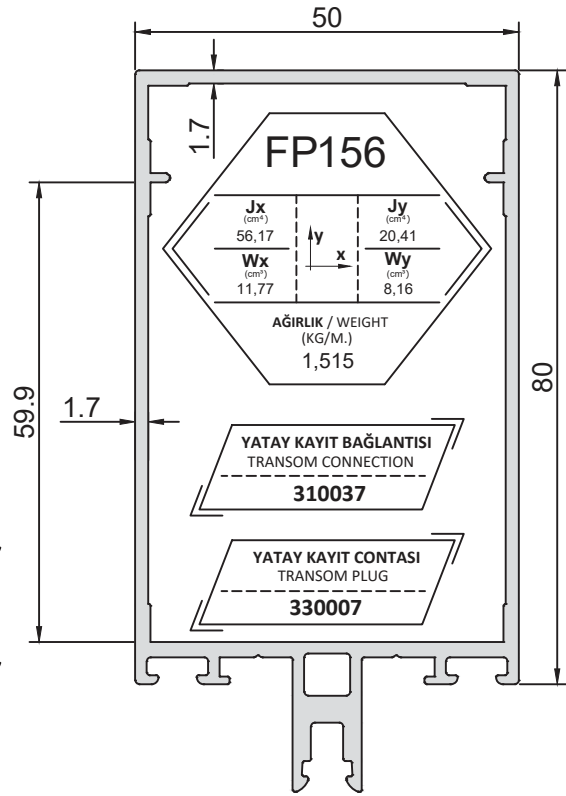
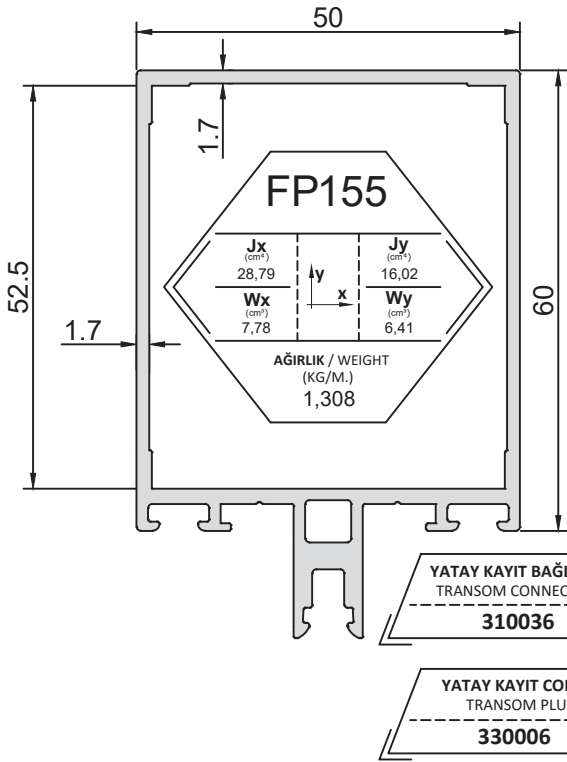


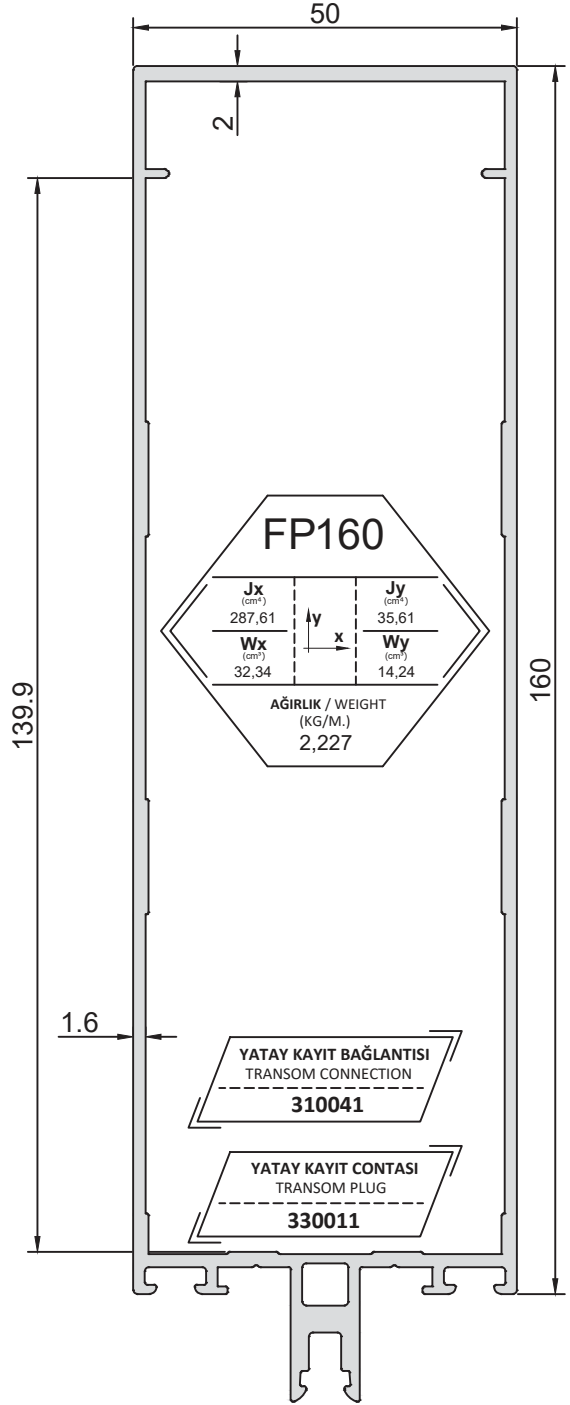
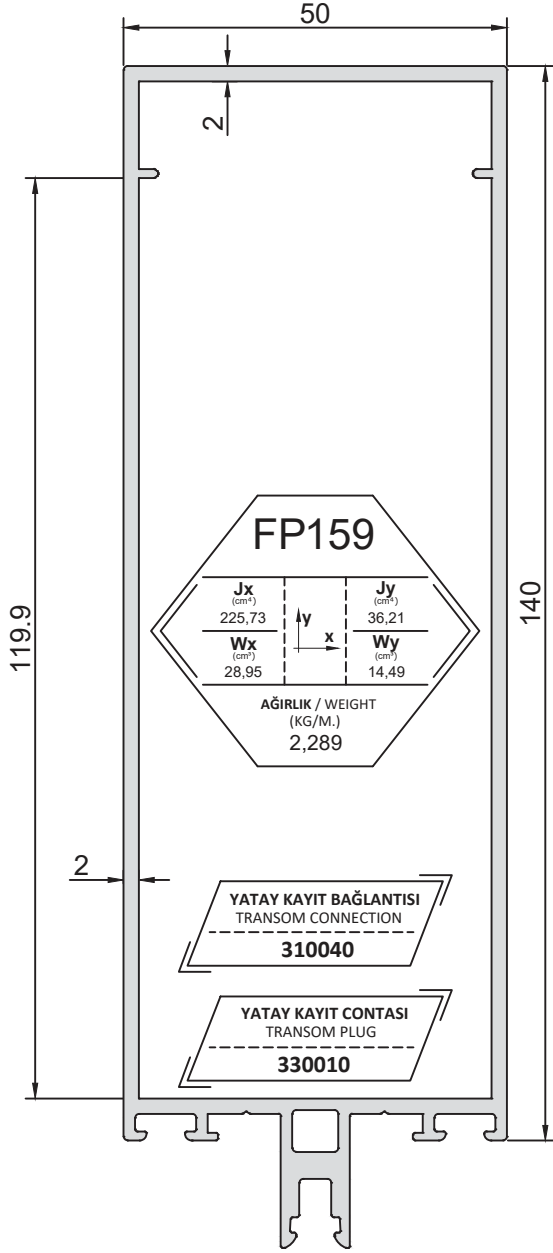
FP153			
J_x (cm ⁴)	l_y x l_x	J_y (cm ⁴)	
11,79		12,05	
W_x (cm ³)		W_y (cm ³)	
4,12		4,82	
AĞIRLIK / WEIGHT (KG/M.) 1,123			

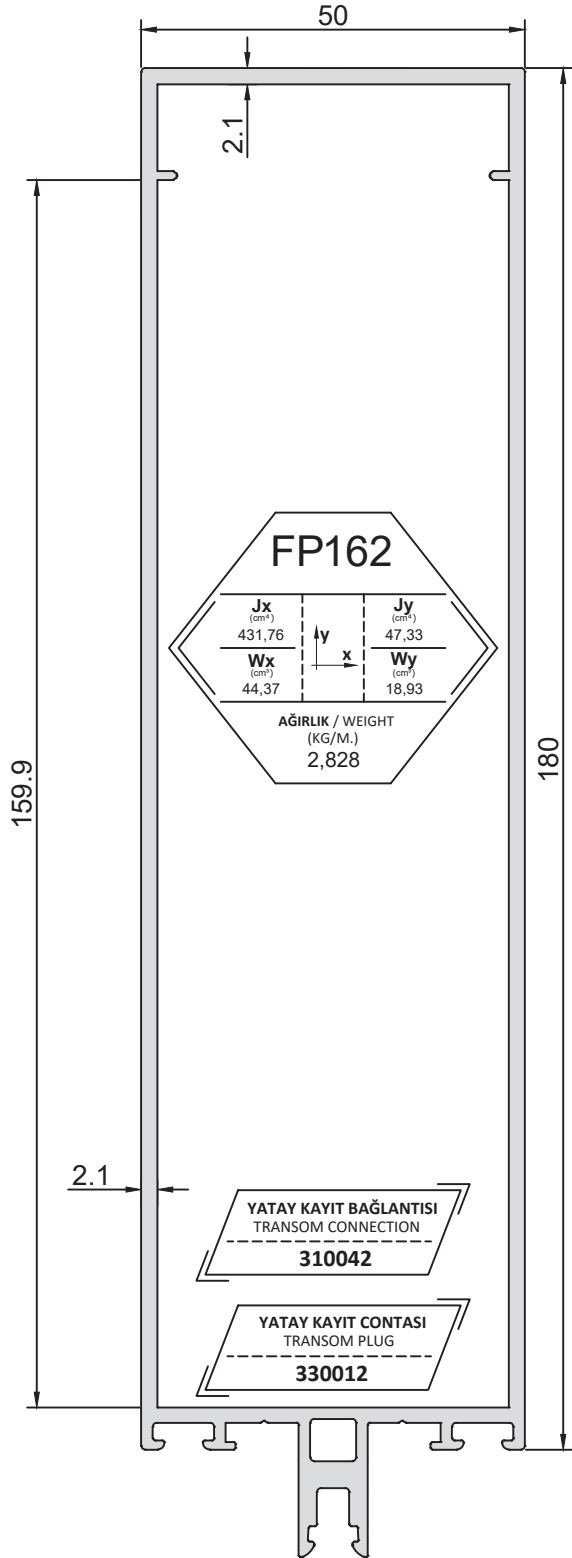
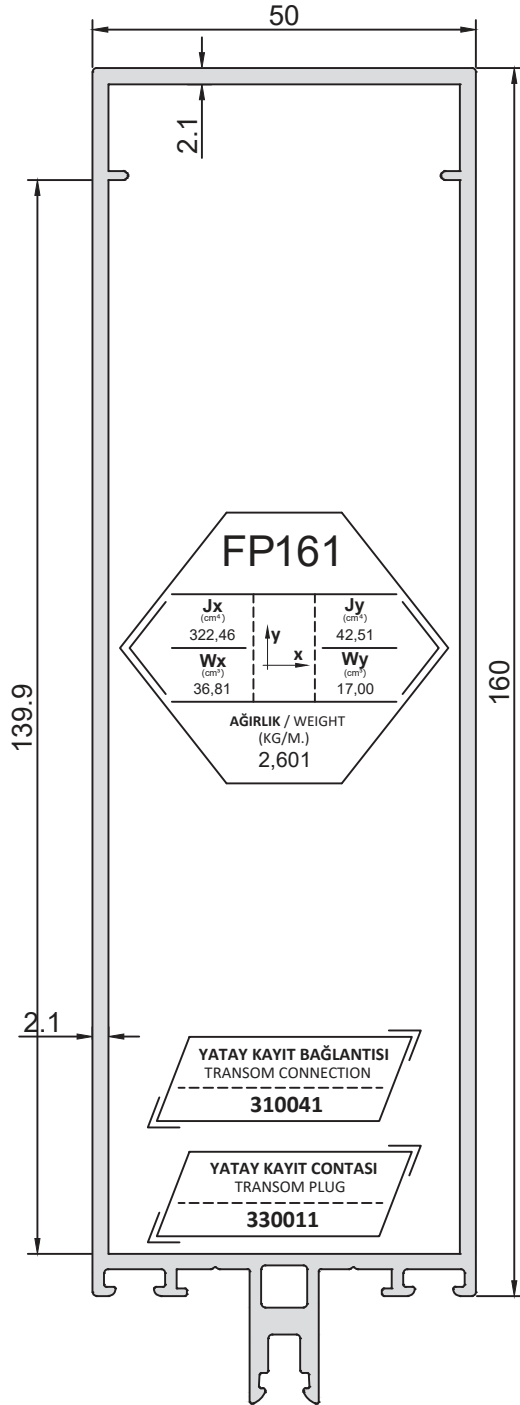


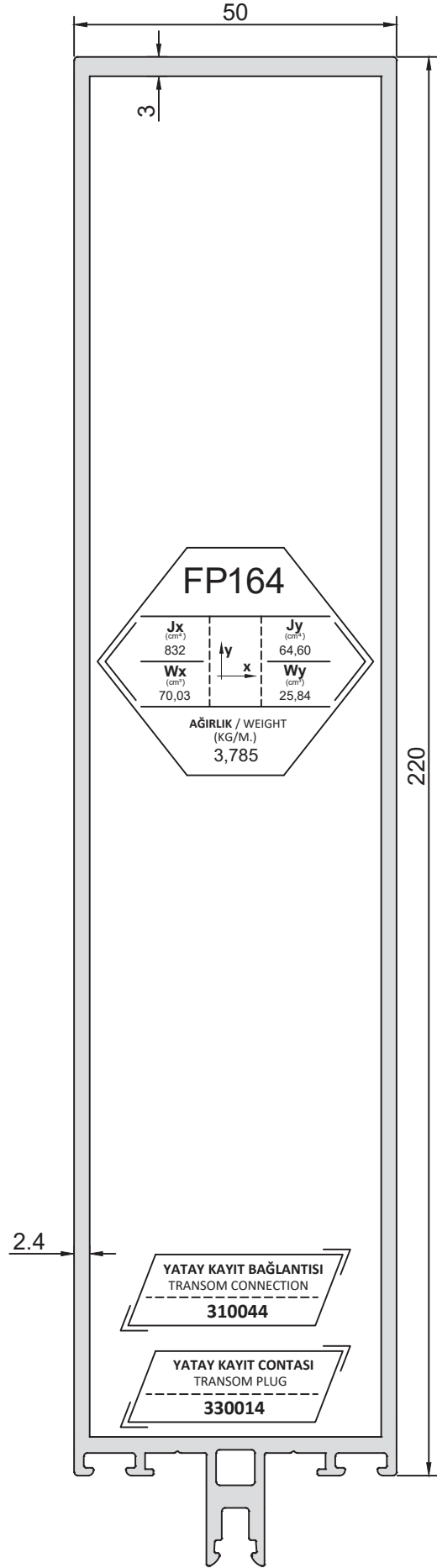
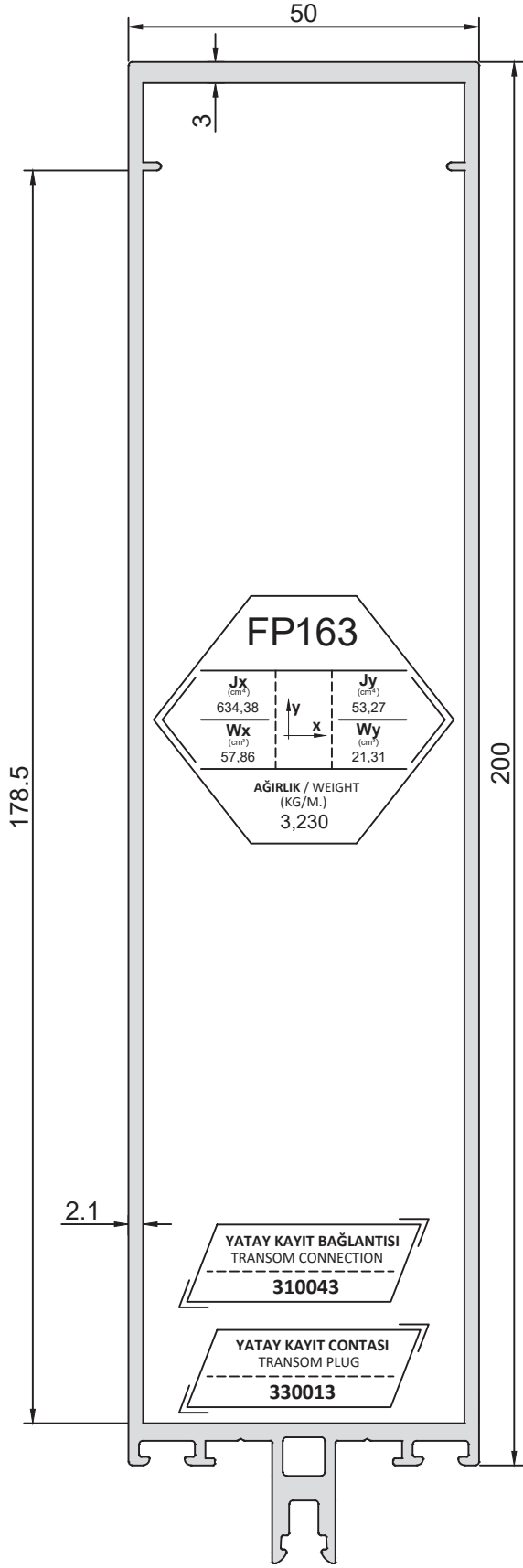
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J_x (cm ⁴)	l_y x l_x	J_y (cm ⁴)	
18,59		13,43	
W_x (cm ³)		W_y (cm ³)	
5,69		5,37	
AĞIRLIK / WEIGHT (KG/M.) 1,161			

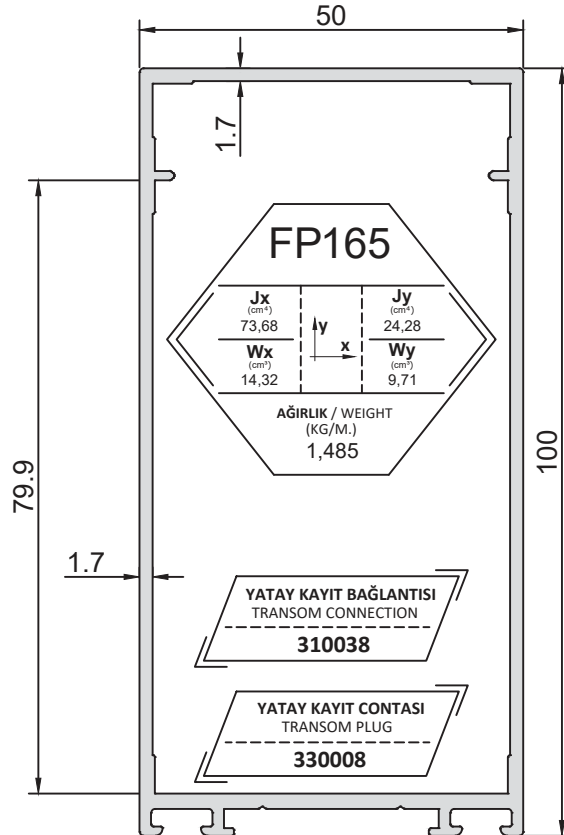
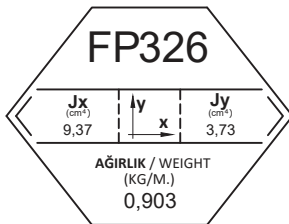
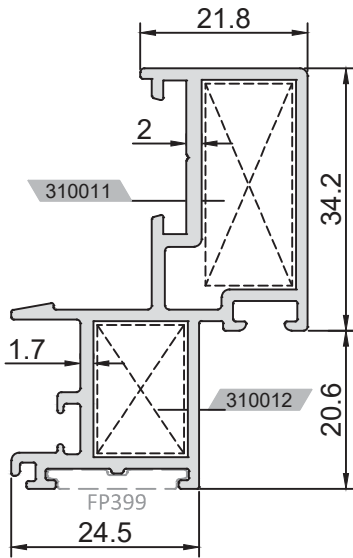
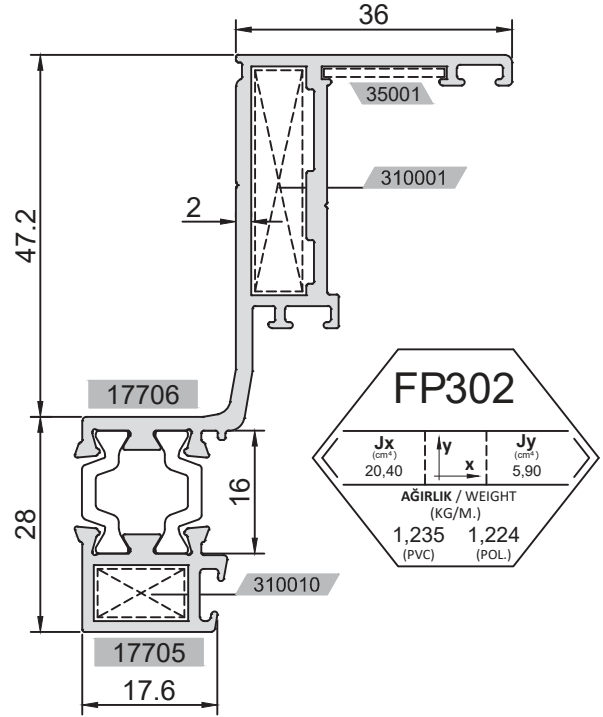
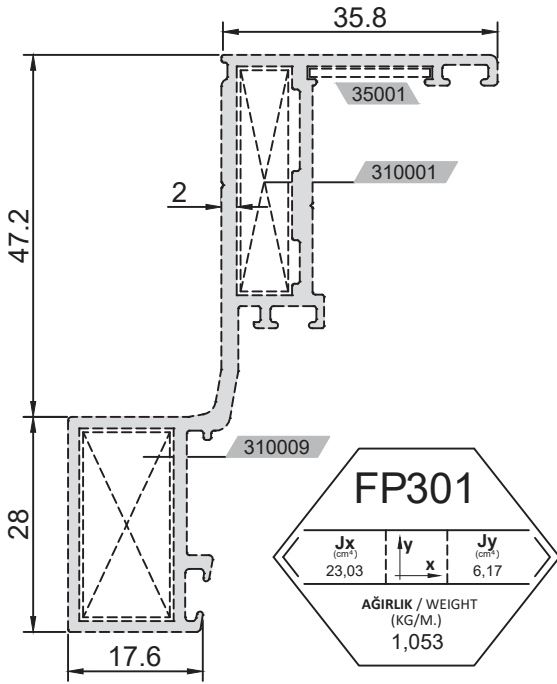
YATAY KAYIT BAĞLANTISI
TRANSOM CONNECTION
310035

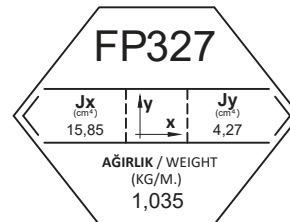
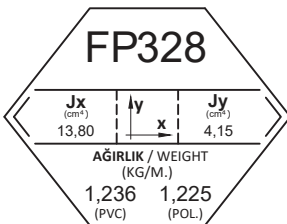
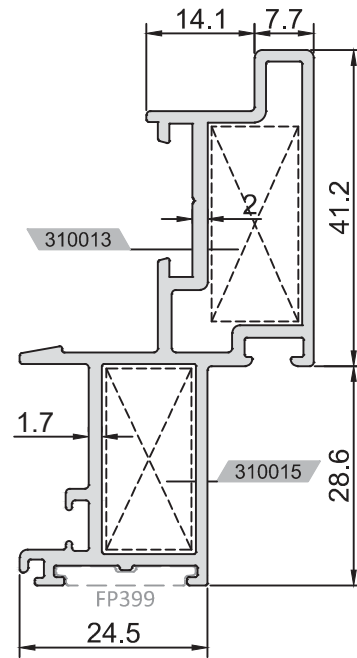
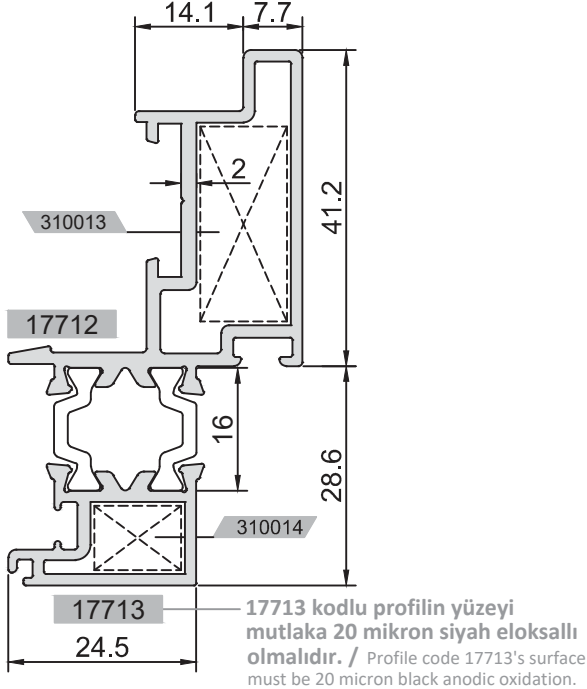
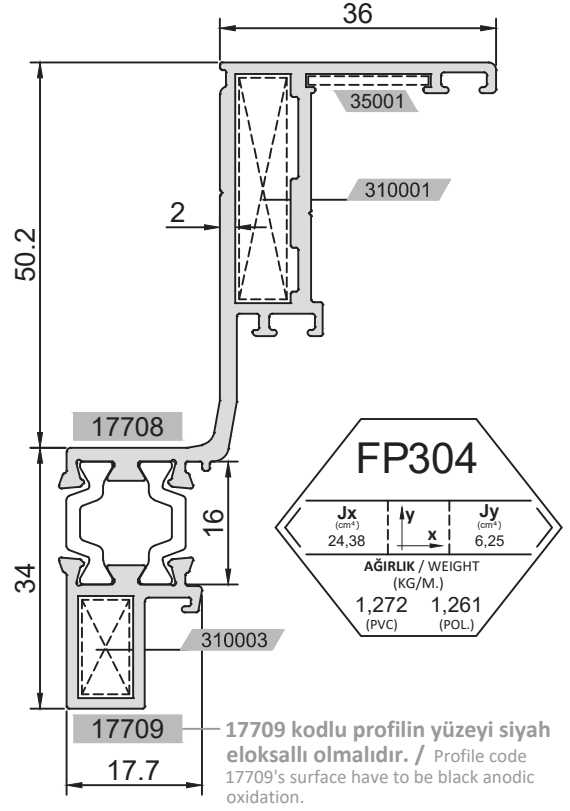
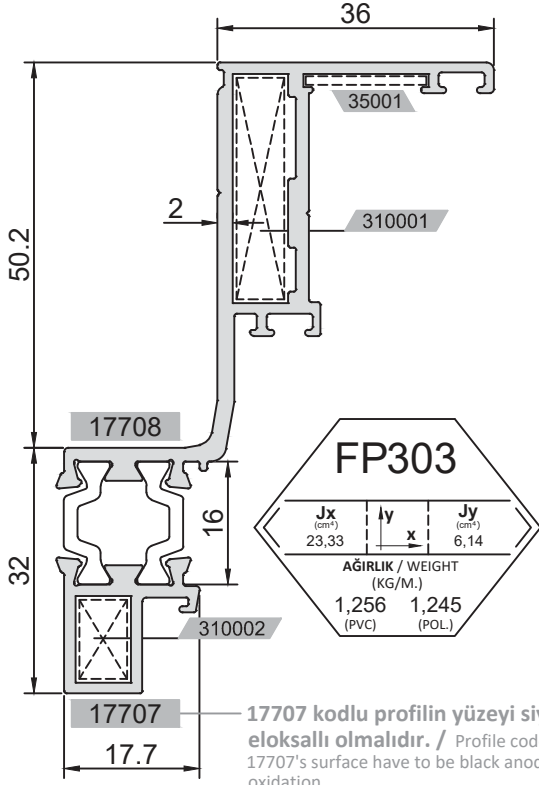


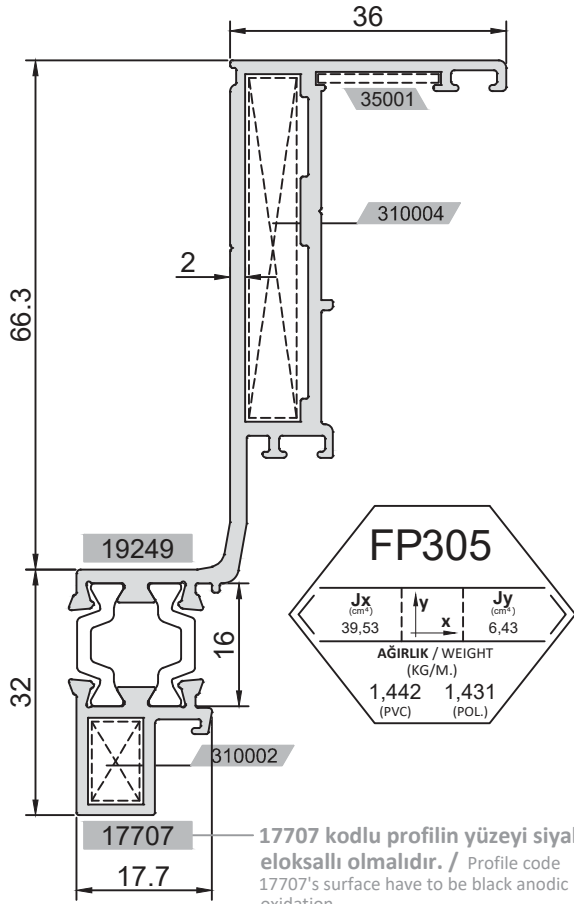




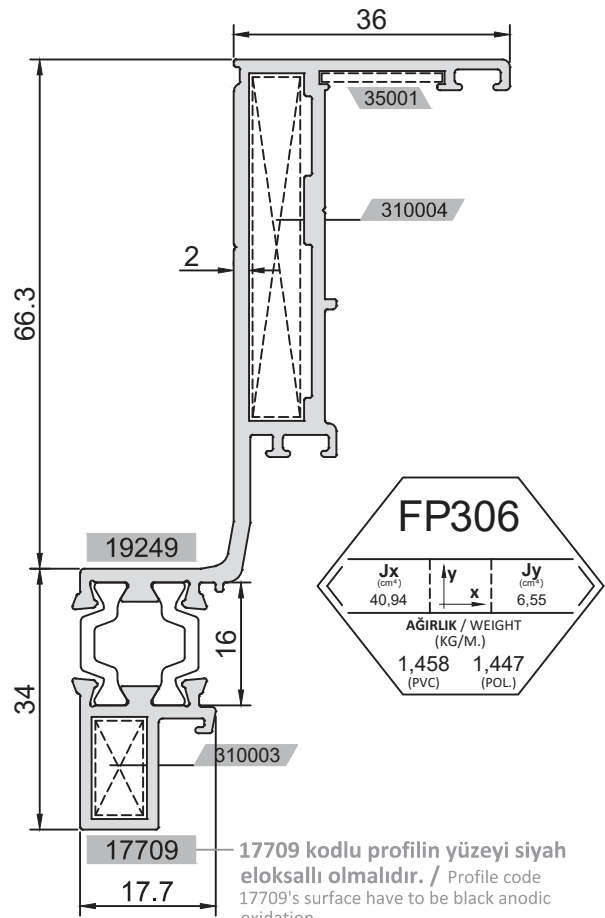




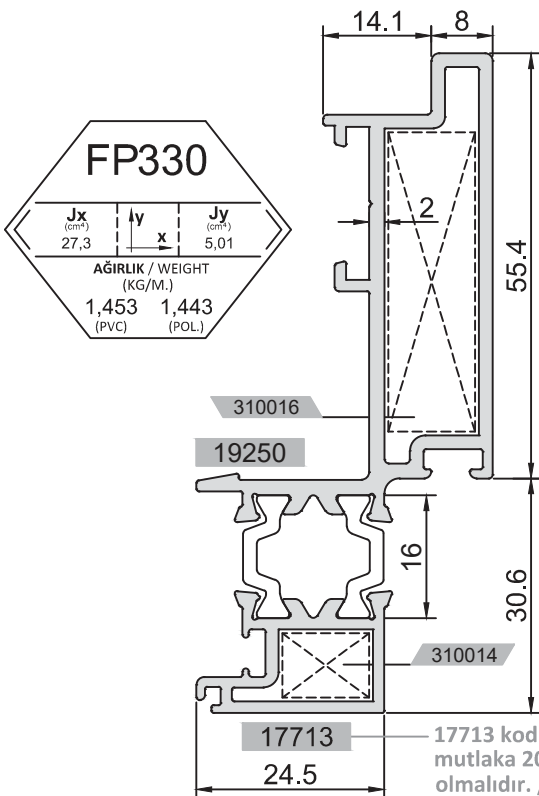




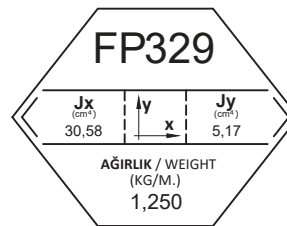
17707 kodlu profilin yüzeyi siyah eloksallı olmalıdır. / Profile code 17707's surface have to be black anodic oxidation.



17709 kodlu profilin yüzeyi siyah eloksallı olmalıdır. / Profile code 17709's surface have to be black anodic oxidation.

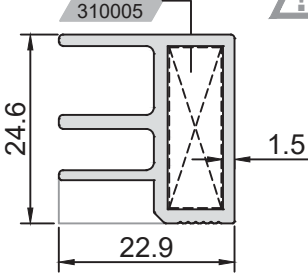


17713 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksallı olmalıdır. / Profile code 17713's surface must be 20 micron black anodic oxidation.

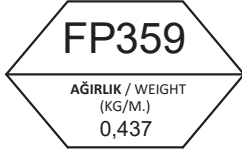


Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.

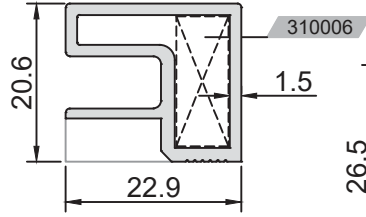
F50-ENERGY



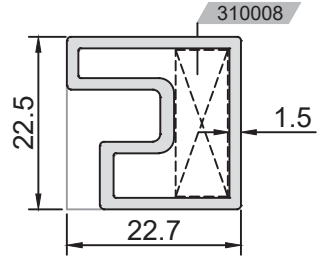
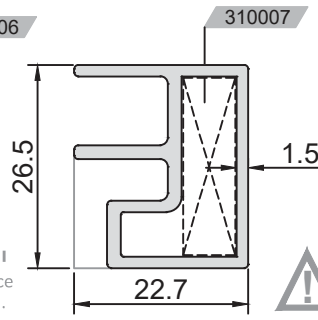
FP359 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksallı olmalıdır. / Profile code FP359's surface must be 20 micron black anodic oxidation.



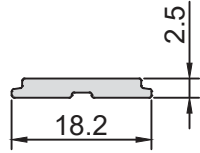
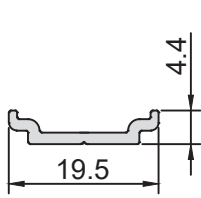
Bu profil için satış ekibinden bilgi alınınız. / Please receive information from sales representative about this profile.



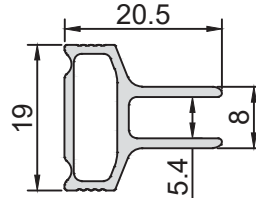
FP360 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksallı olmalıdır. / Profile code FP360's surface must be 20 micron black anodic oxidation.



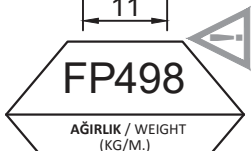
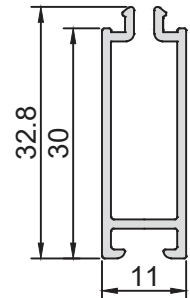
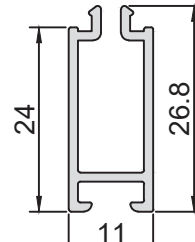
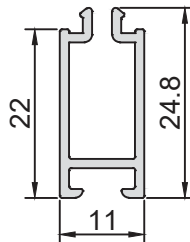
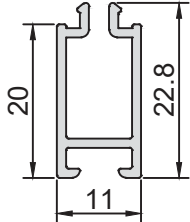
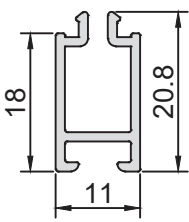
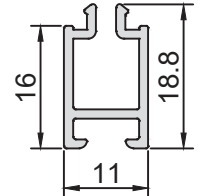
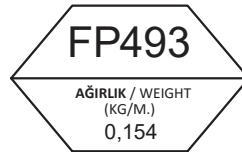
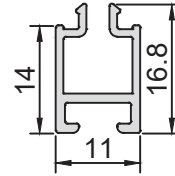
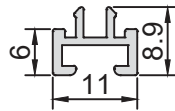
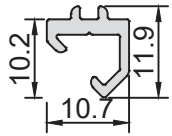
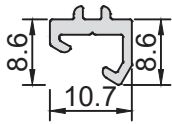
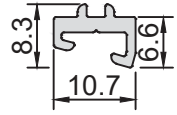
Bu profil için satış ekibinden bilgi alınınız. / Please receive information from sales representative about this profile.



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

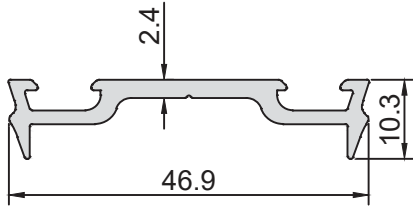


FP398 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksallı olmalıdır. / Profile code FP398's surface must be 20 micron black anodic oxidation.

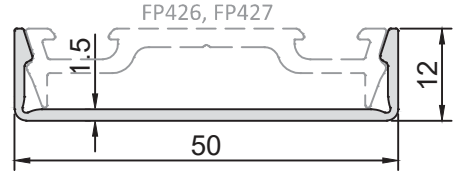


Bu profil için satış ekibinden bilgi alınınız. / Please receive information from sales representative about this profile.

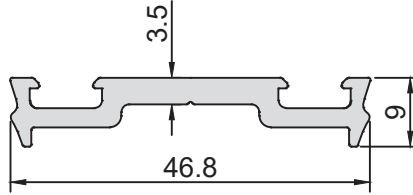




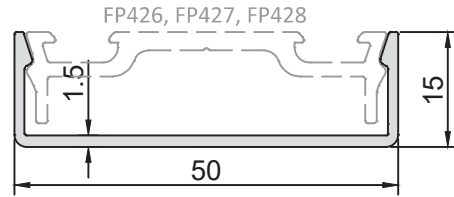
FP426
AĞIRLIK / WEIGHT
(KG/M.)
0,395



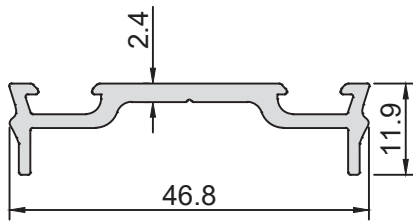
FP441
AĞIRLIK / WEIGHT
(KG/M.)
0,283



FP427
AĞIRLIK / WEIGHT
(KG/M.)
0,496



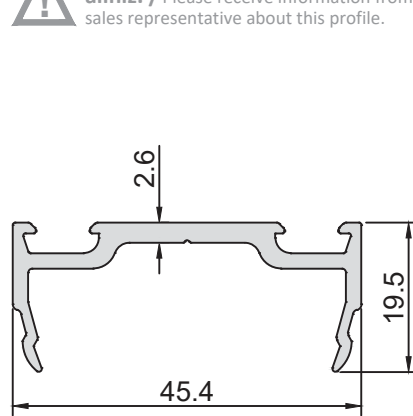
FP442
AĞIRLIK / WEIGHT
(KG/M.)
0,308



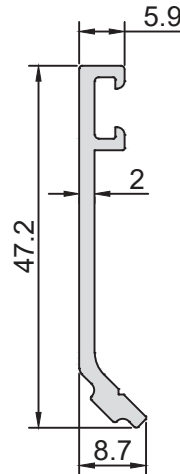
FP428
AĞIRLIK / WEIGHT
(KG/M.)
0,413



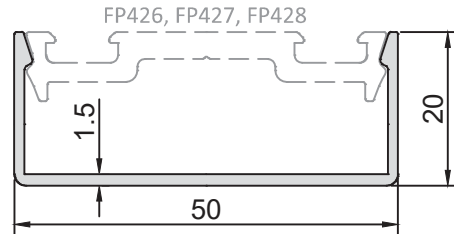
Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.



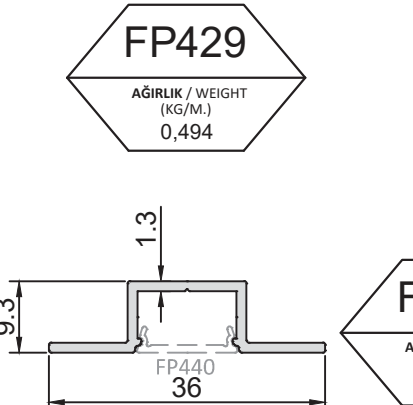
FP429
AĞIRLIK / WEIGHT
(KG/M.)
0,494



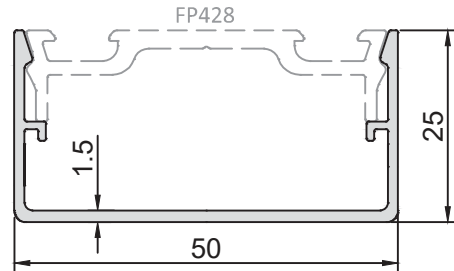
FP499
AĞIRLIK / WEIGHT
(KG/M.)
0,329



FP443
AĞIRLIK / WEIGHT
(KG/M.)
0,343



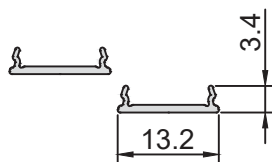
FP430
AĞIRLIK / WEIGHT
(KG/M.)
0,183



FP444
AĞIRLIK / WEIGHT
(KG/M.)
0,403

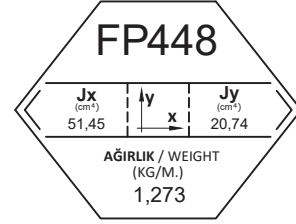
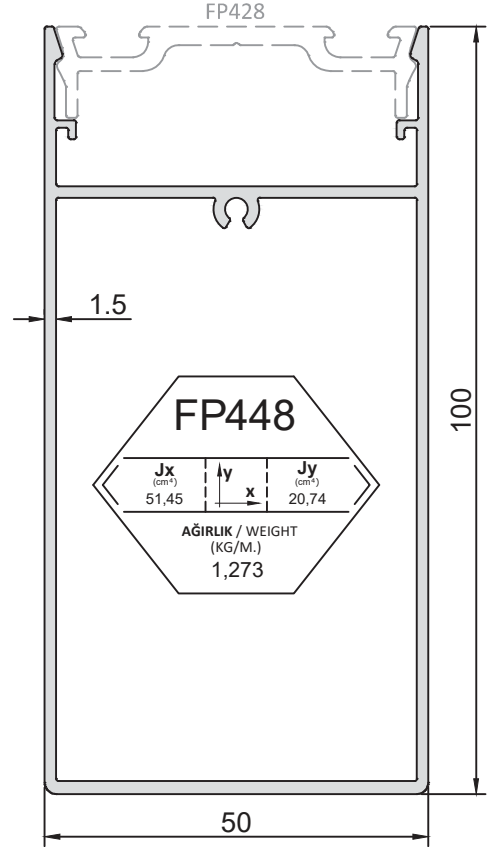
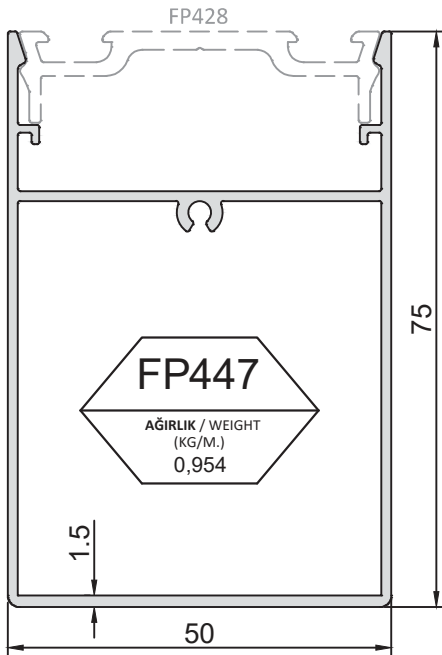
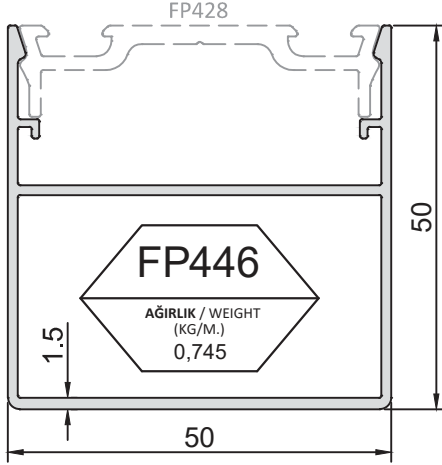
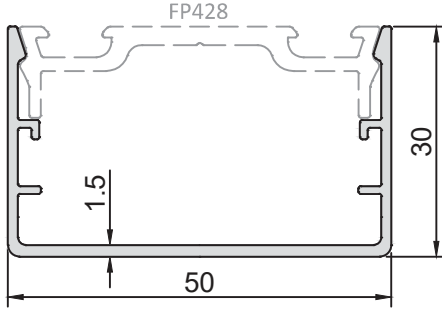


Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.

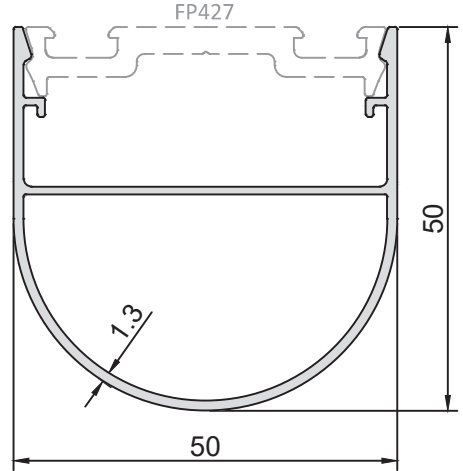


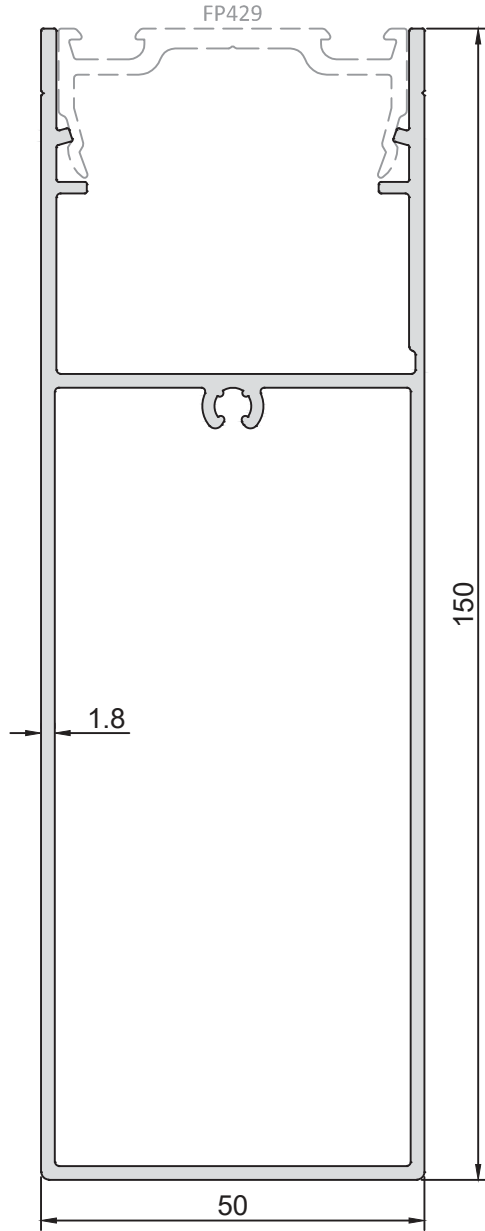
FP440
AĞIRLIK / WEIGHT
(KG/M.)
0,043

F50-ENERGY



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

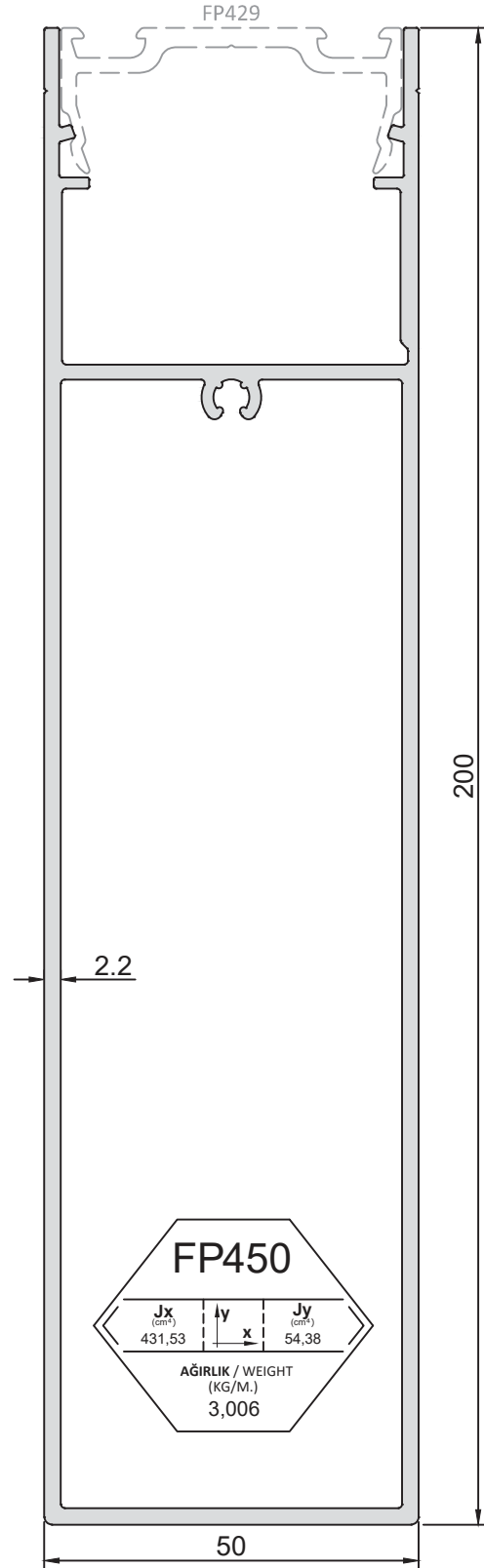




FP449		
J_x (cm ⁴)	I_y (cm ³)	J_y (cm ⁴)
166,24	x	36,07
AĞIRLIK / WEIGHT (KG/M.)		
2,065		



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

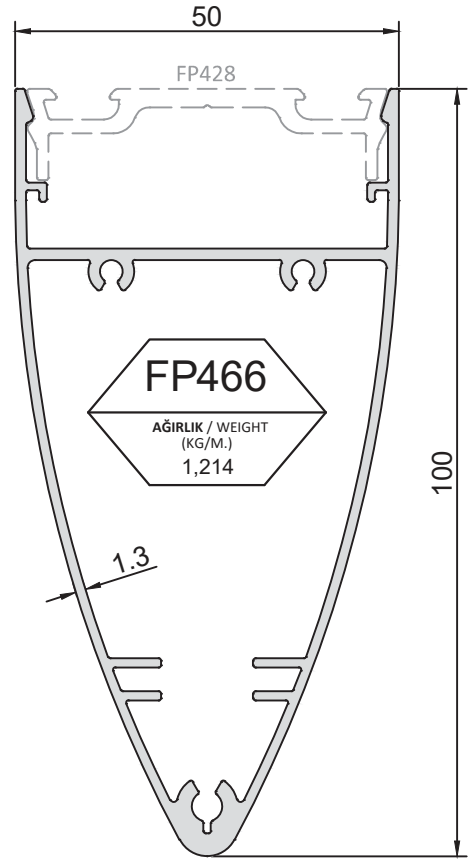
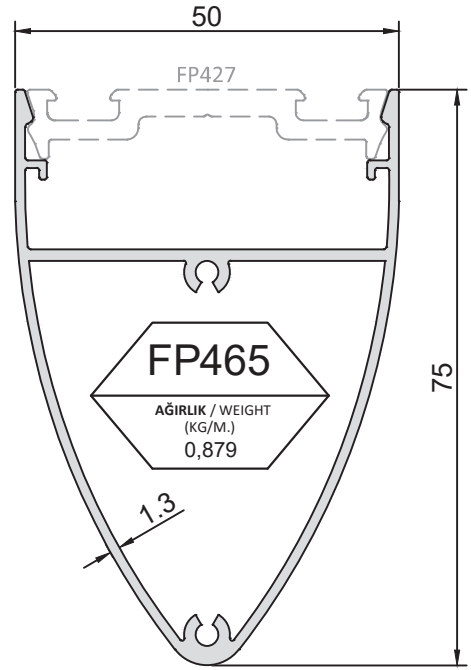
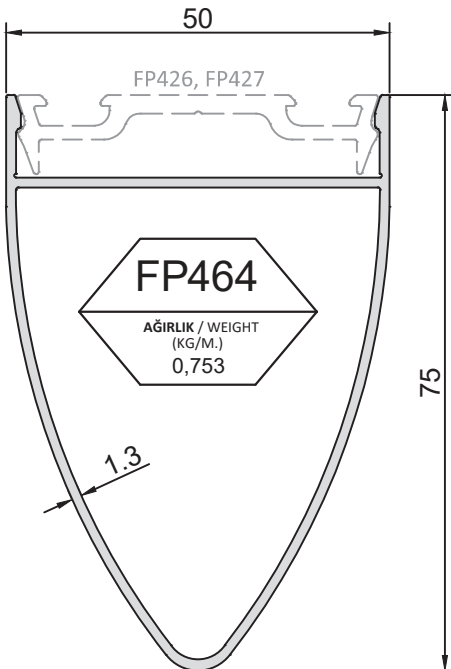
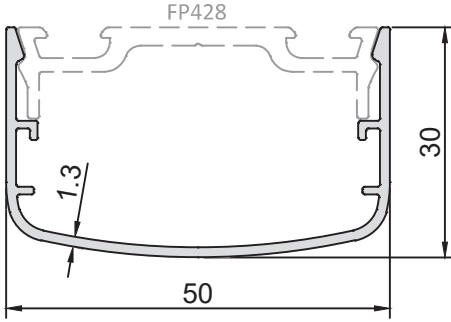
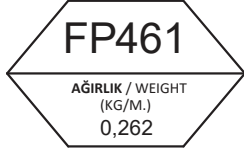
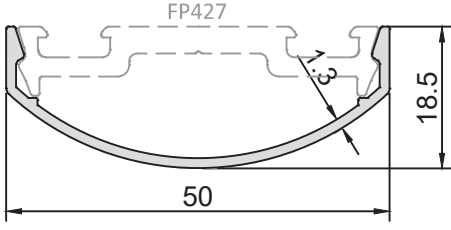


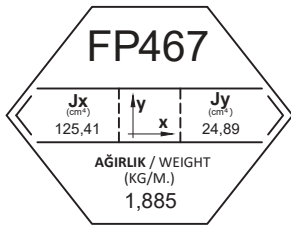
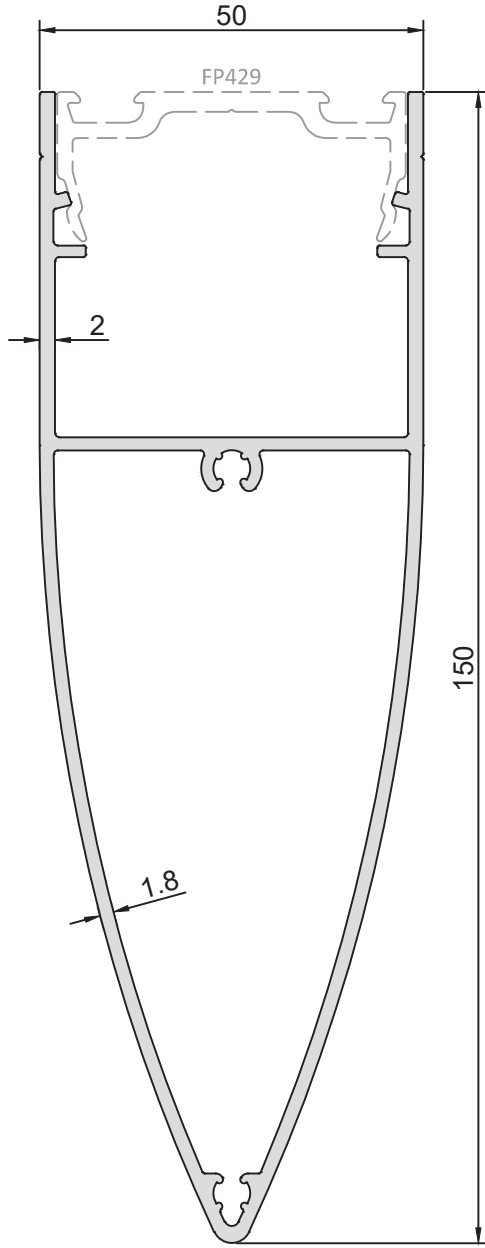
FP450		
J_x (cm ⁴)	I_y (cm ³)	J_y (cm ⁴)
431,53	x	54,38
AĞIRLIK / WEIGHT (KG/M.)		
3,006		



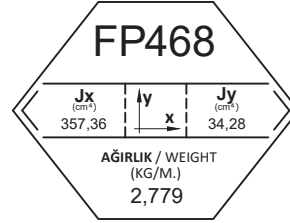
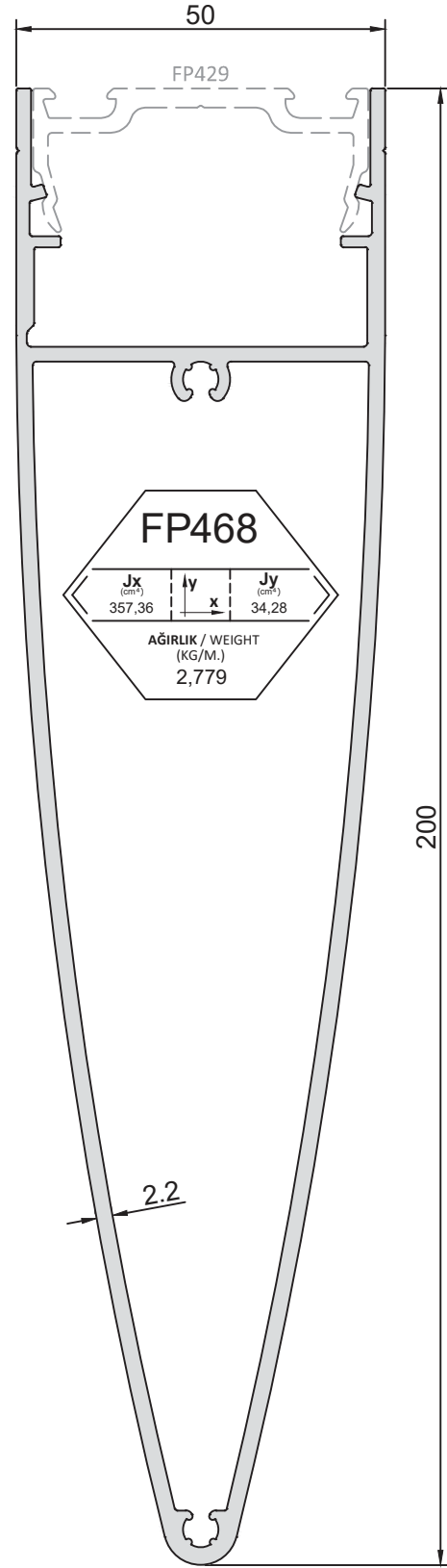
Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.

F50-ENERGY






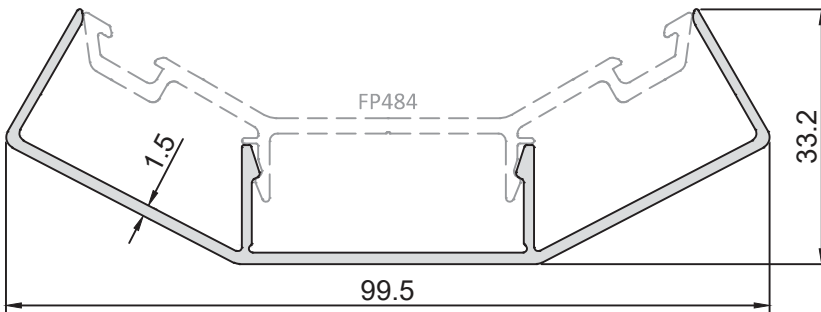
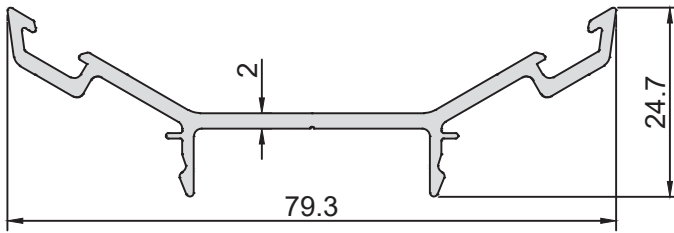
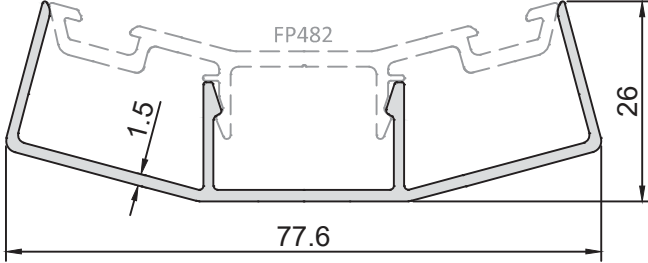
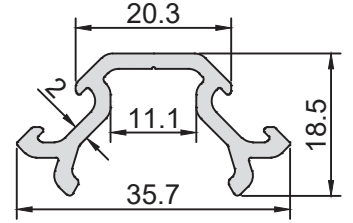
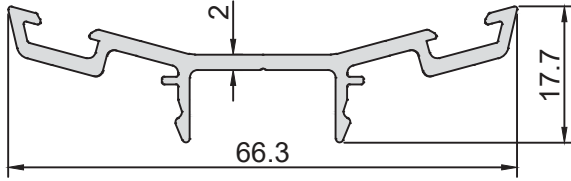
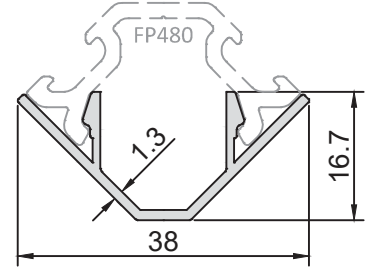
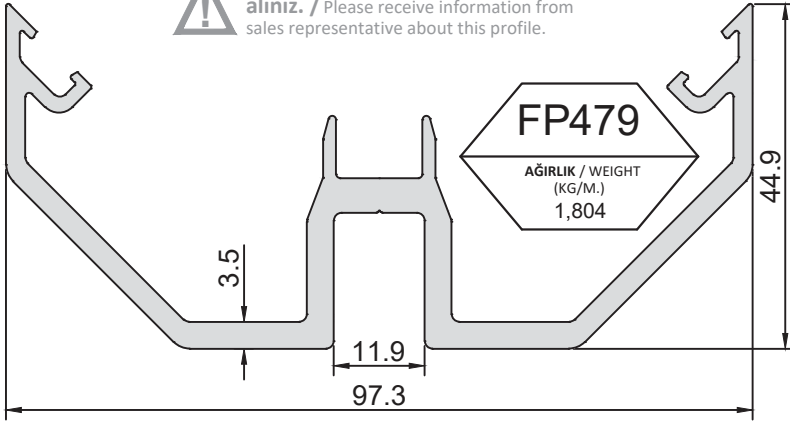
⚠ Bu profil için satış ekibinden bilgi alınız. / Please receive information from sales representative about this profile.



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

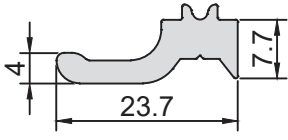
F50-ENERGY

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

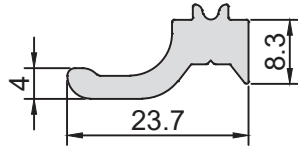


ALÜMİNYUM AKSESUAR PROFİLLERİ

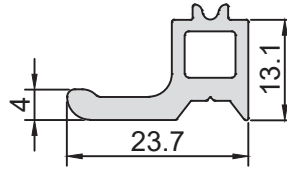
PROFILES OF ALUMINIUM ACCESSORIES



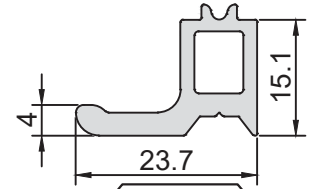
FP377
AĞIRLIK / WEIGHT
(KG/M.)
0,294



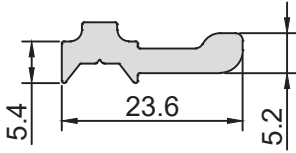
FP378
AĞIRLIK / WEIGHT
(KG/M.)
0,318



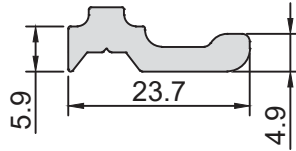
FP379
AĞIRLIK / WEIGHT
(KG/M.)
0,331



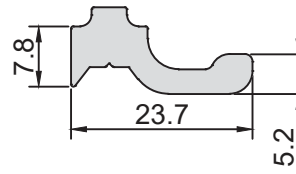
FP380
AĞIRLIK / WEIGHT
(KG/M.)
0,354



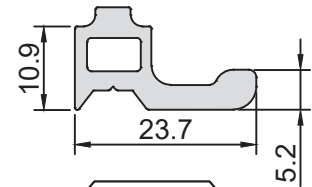
FP381
AĞIRLIK / WEIGHT
(KG/M.)
0,270



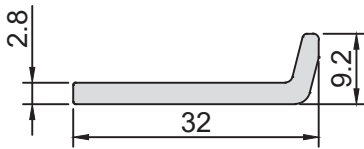
FP382
AĞIRLIK / WEIGHT
(KG/M.)
0,281



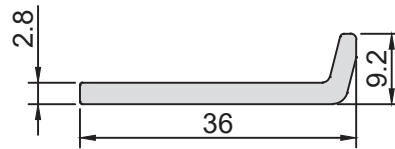
FP383
AĞIRLIK / WEIGHT
(KG/M.)
0,343



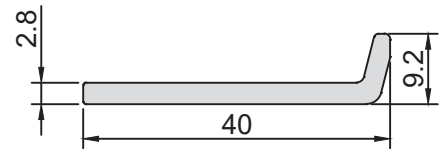
FP384
AĞIRLIK / WEIGHT
(KG/M.)
0,340



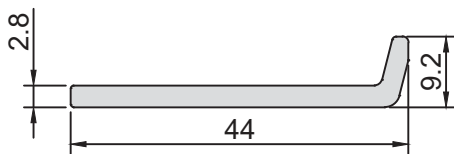
FP390
AĞIRLIK / WEIGHT
(KG/M.)
0,277



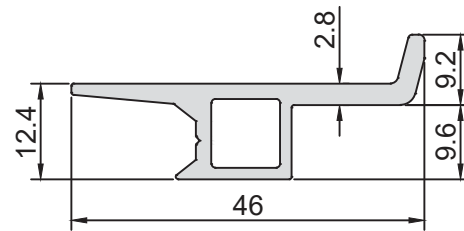
FP391
AĞIRLIK / WEIGHT
(KG/M.)
0,308



FP392
AĞIRLIK / WEIGHT
(KG/M.)
0,338



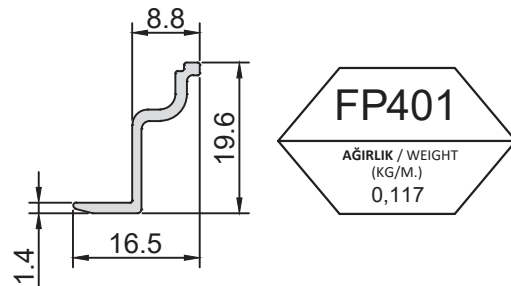
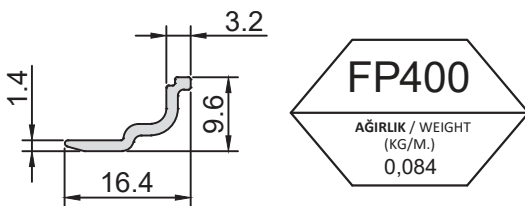
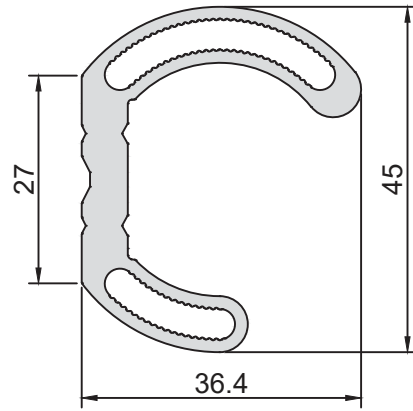
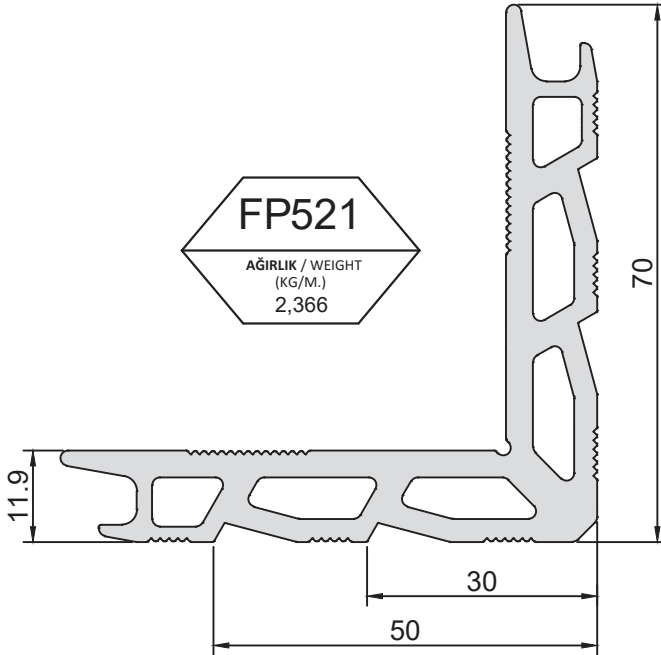
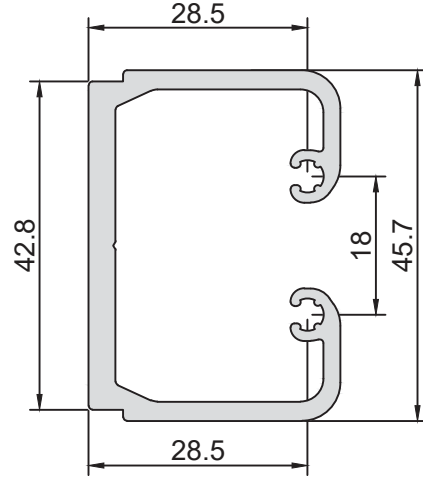
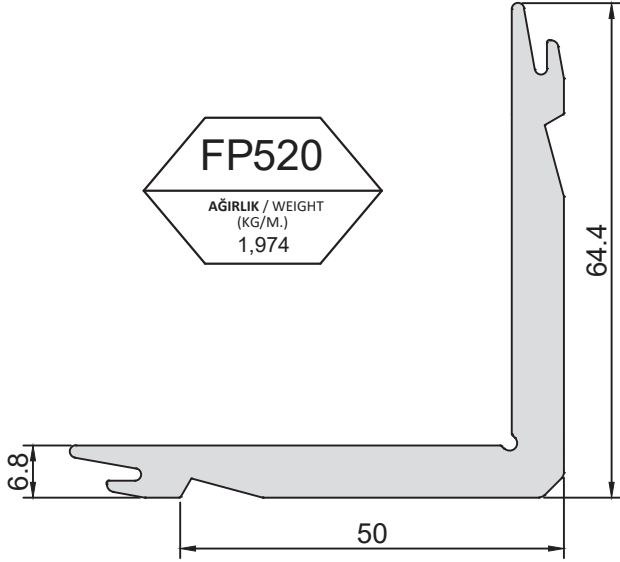
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AĞIRLIK / WEIGHT
(KG/M.)
0,368



FP394
AĞIRLIK / WEIGHT
(KG/M.)
0,482

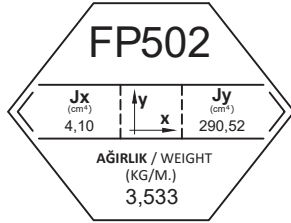
ALÜMİNYUM AKSESUAR PROFİLLERİ

PROFILES OF ALUMINIUM ACCESSORIES

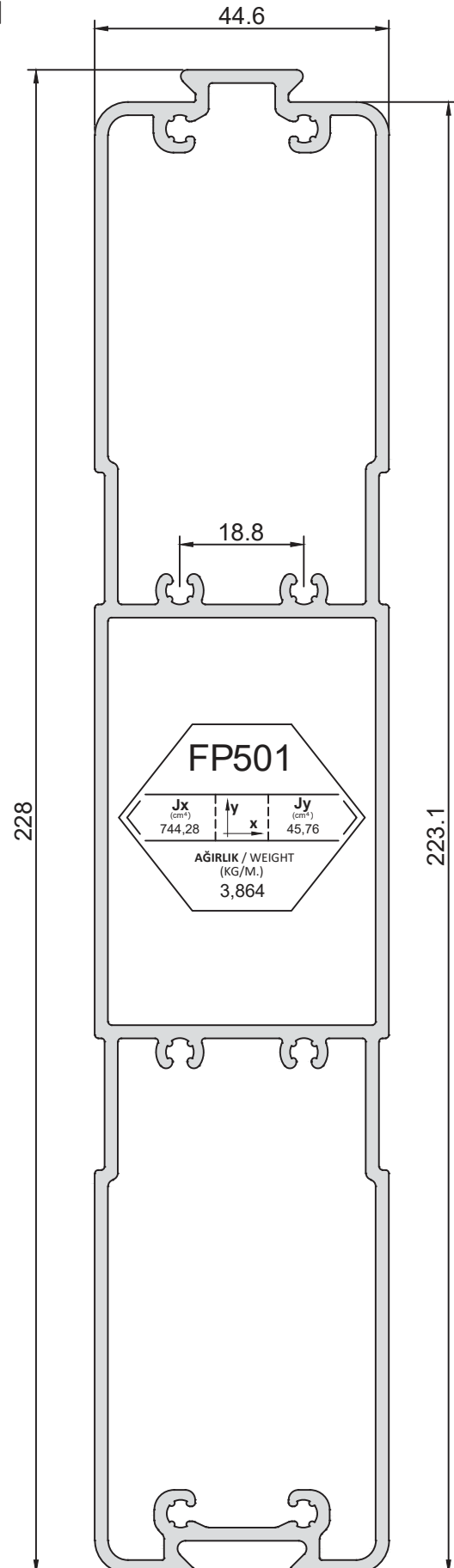
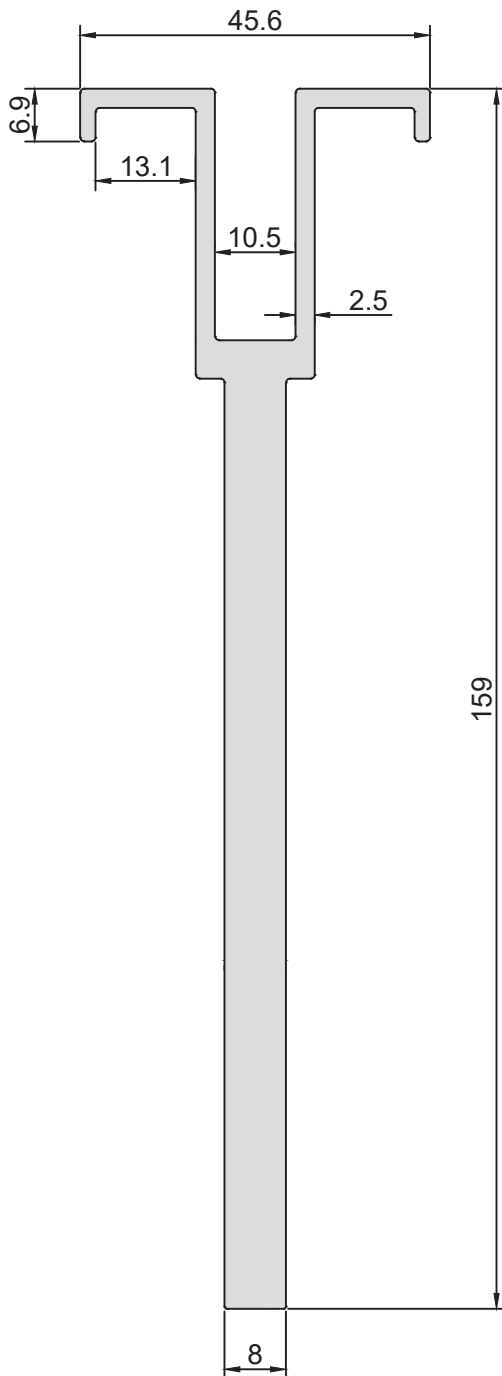


ALÜMİNYUM AKSESUAR PROFİLLERİ

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

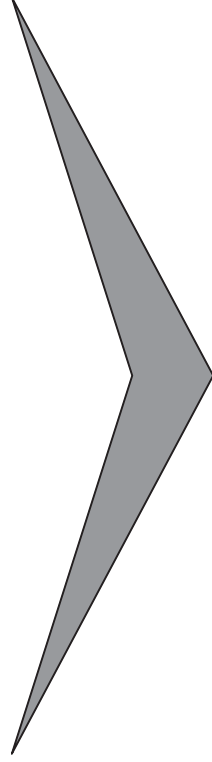
TARAMA STİLLERİ / HATCH STYLES

	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 (Al) / PIECE OF PROFILE (Al)		TAŞYÜNÜ / ROCKWOOL
	ISI BARIYERİ / INSULATION BAR		CAM / GLASS

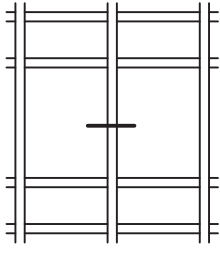
► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
SİSTEM ALÜMİNYUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

KAPAKLI CEPHE

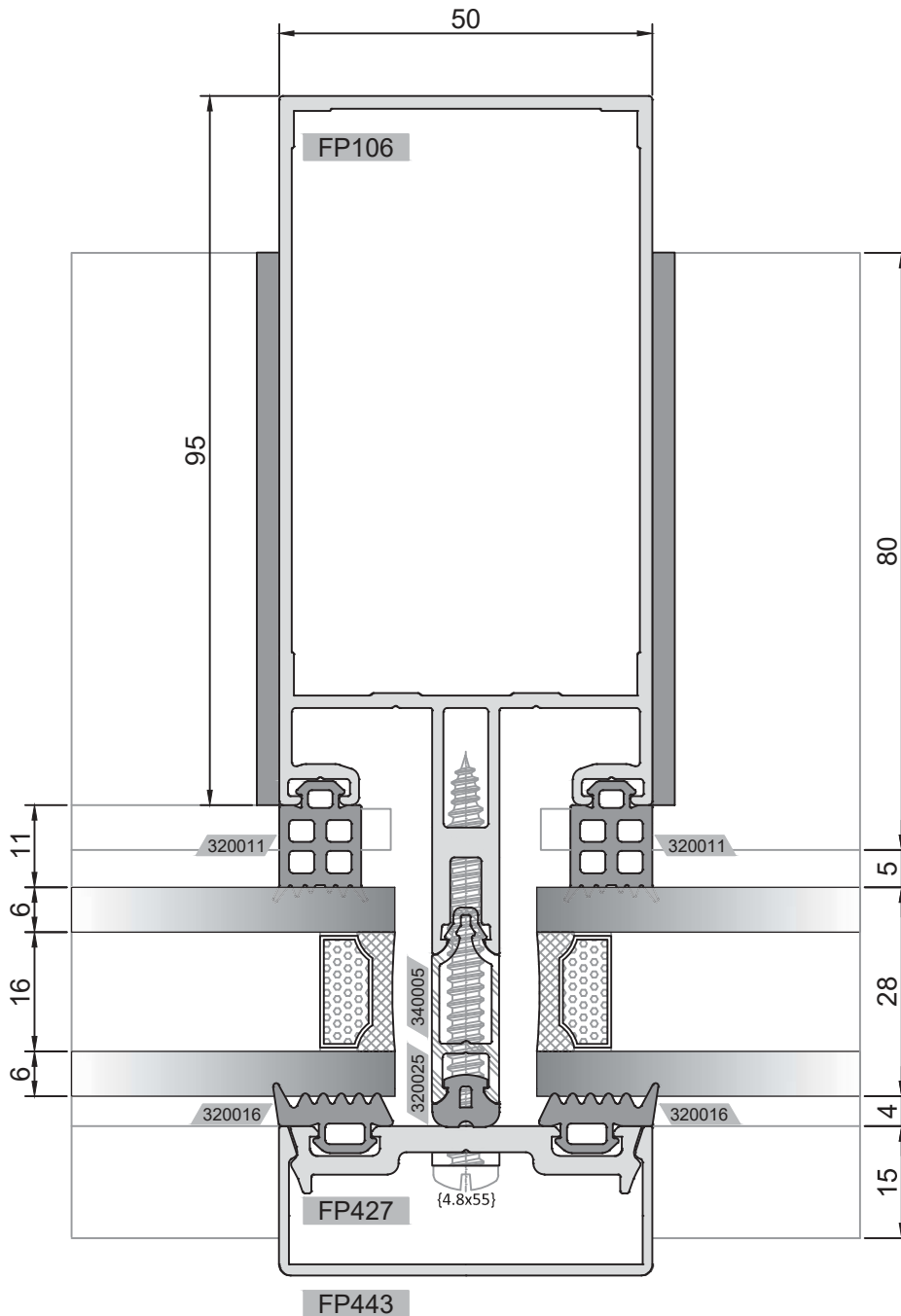
CAPPED CURTAIN WALL

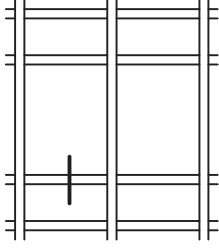


► SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
SİSTEM ALÜMİNYUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

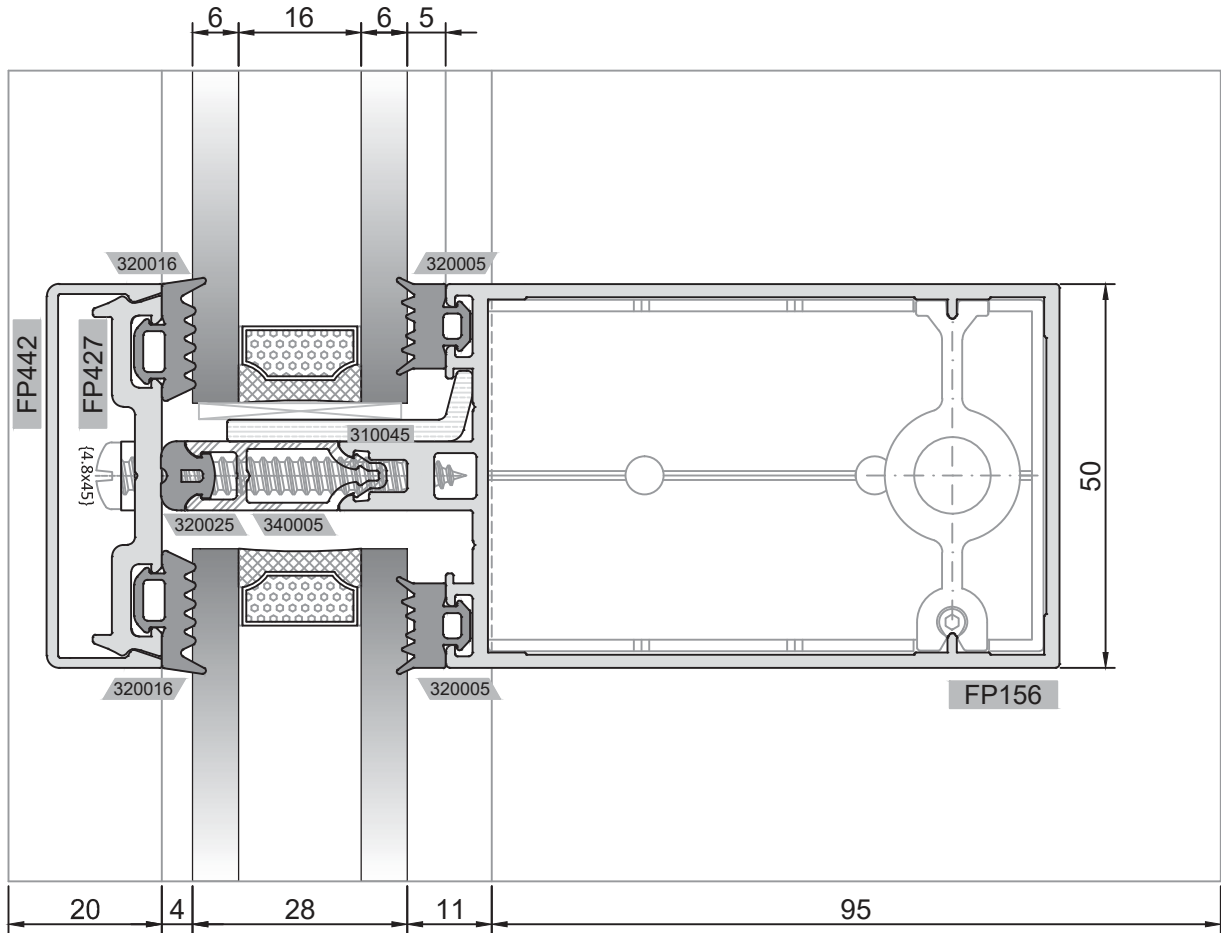


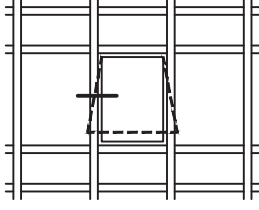
DÜŞEY DETAYI
VERTICAL DETAIL





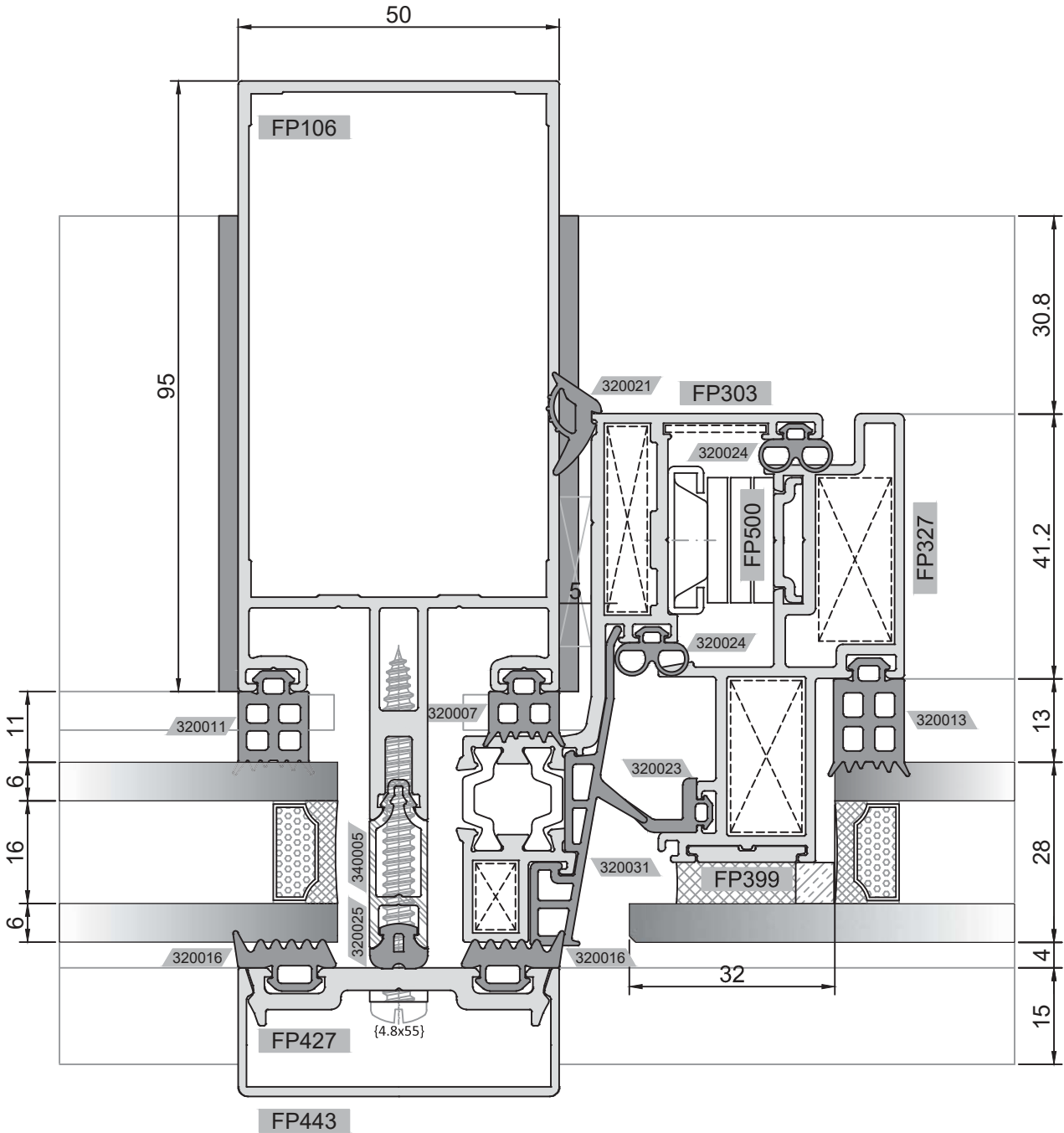
YATAY DETAYI
HORIZONTAL DETAIL

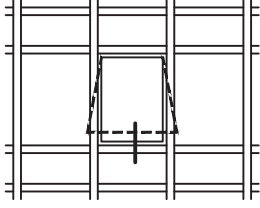




ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

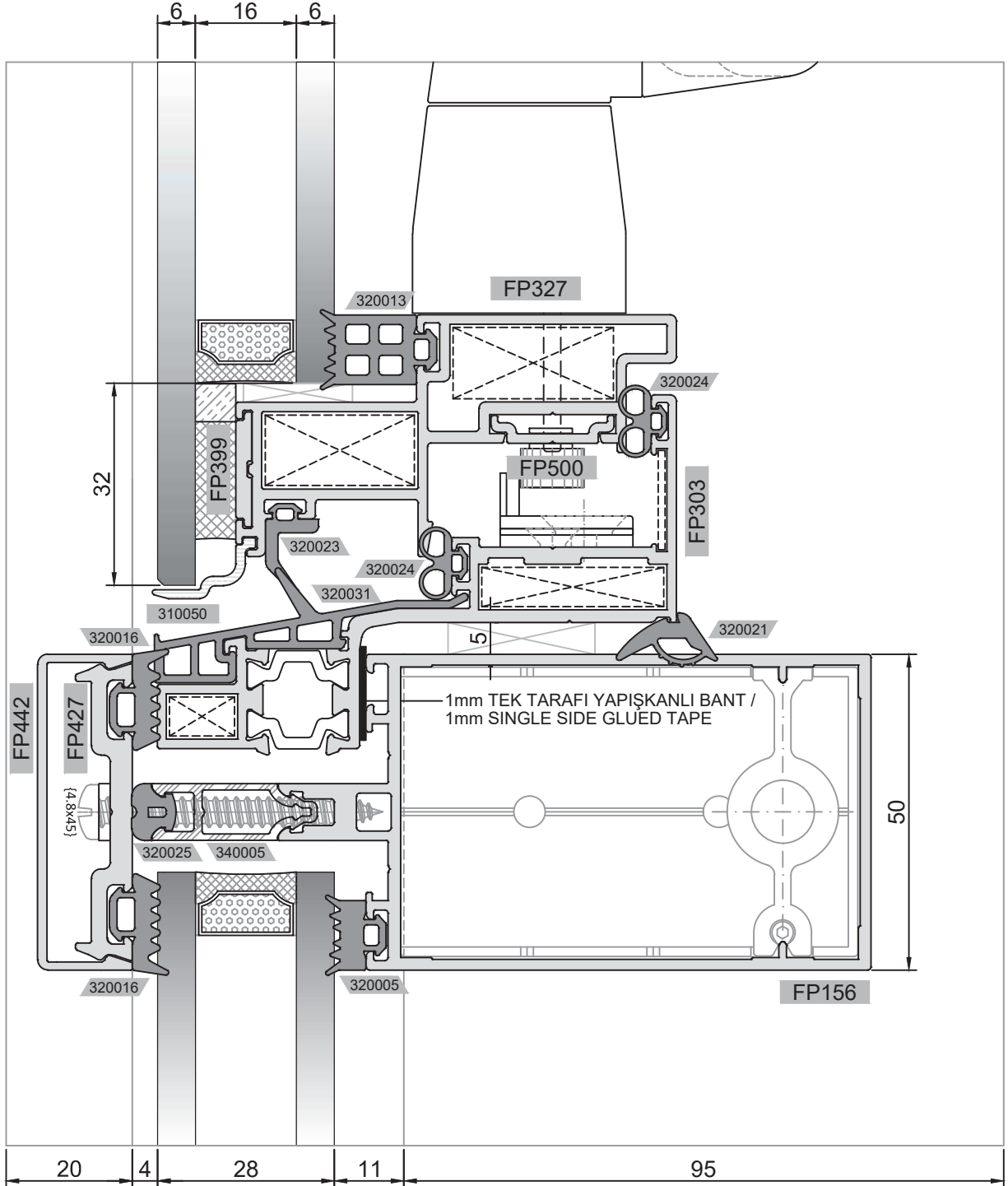
DÜŞEY DETAYI
VERTICAL DETAIL

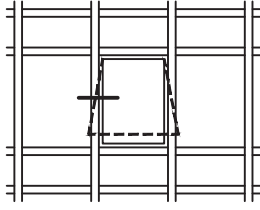




ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

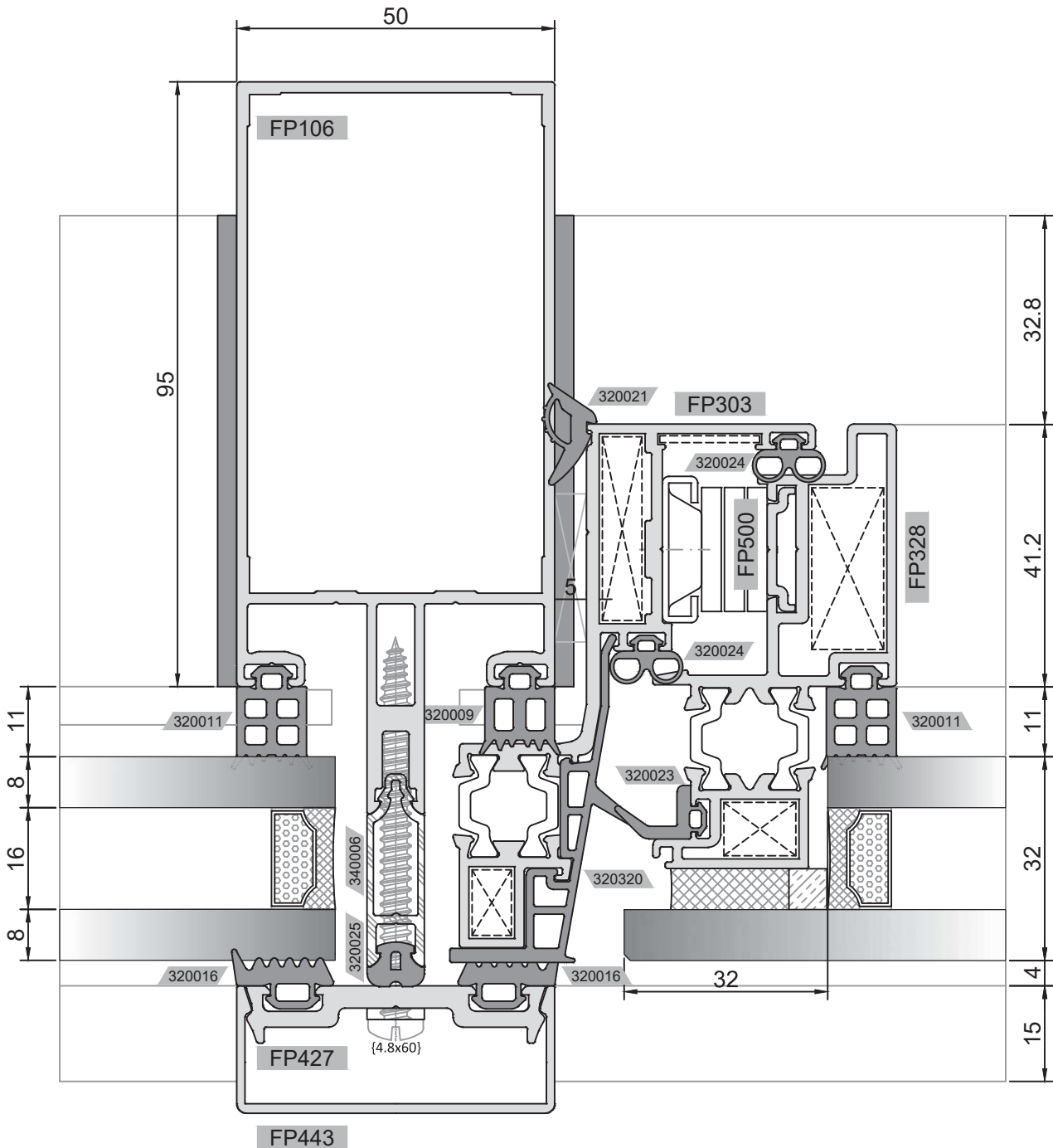
YATAY DETAYI
HORIZONTAL DETAIL

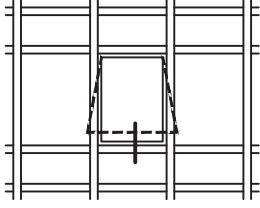




ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

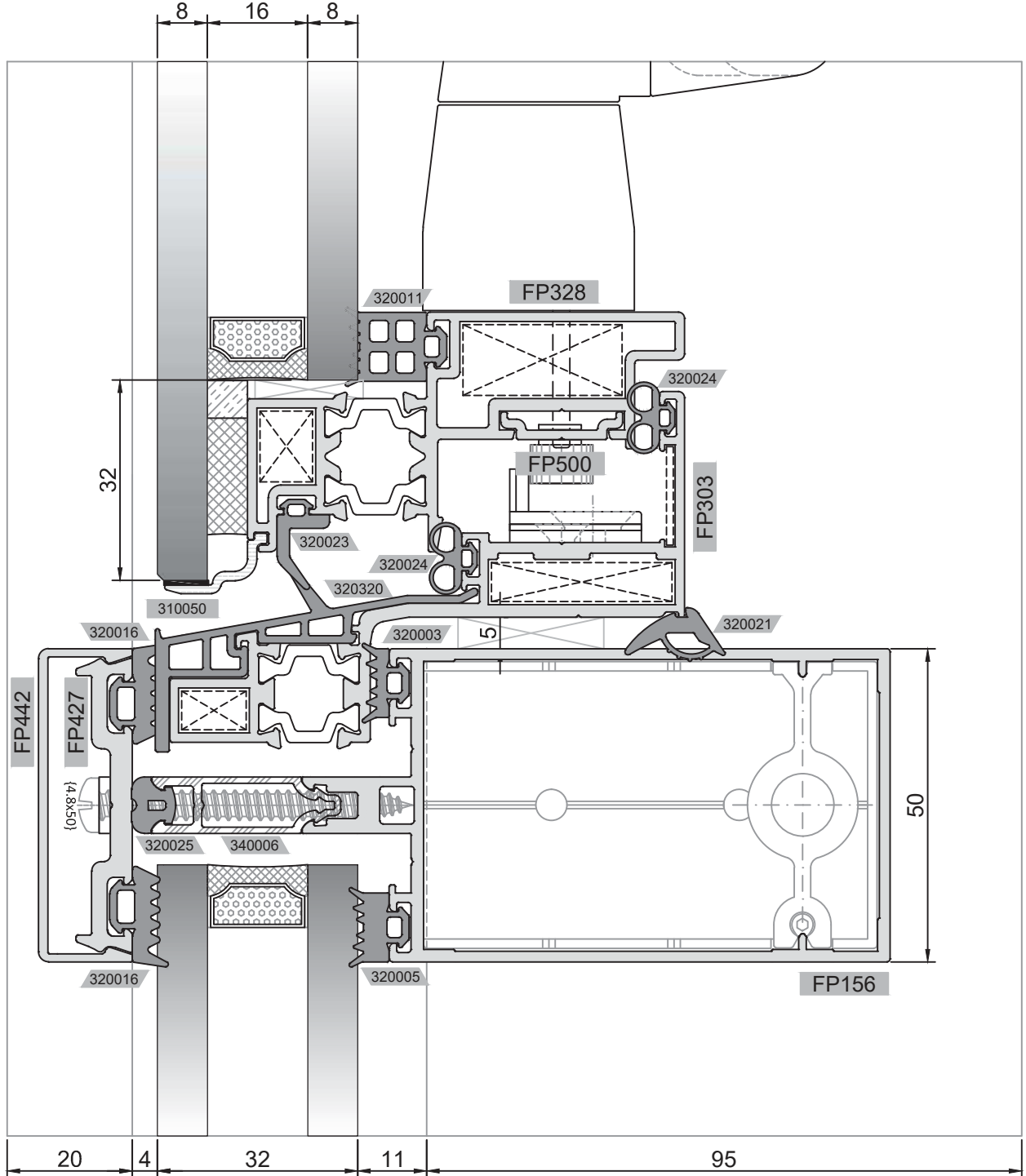
DÜŞEY DETAYI
VERTICAL DETAIL

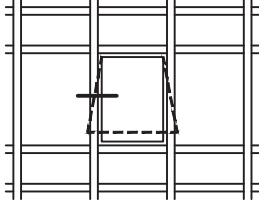




ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

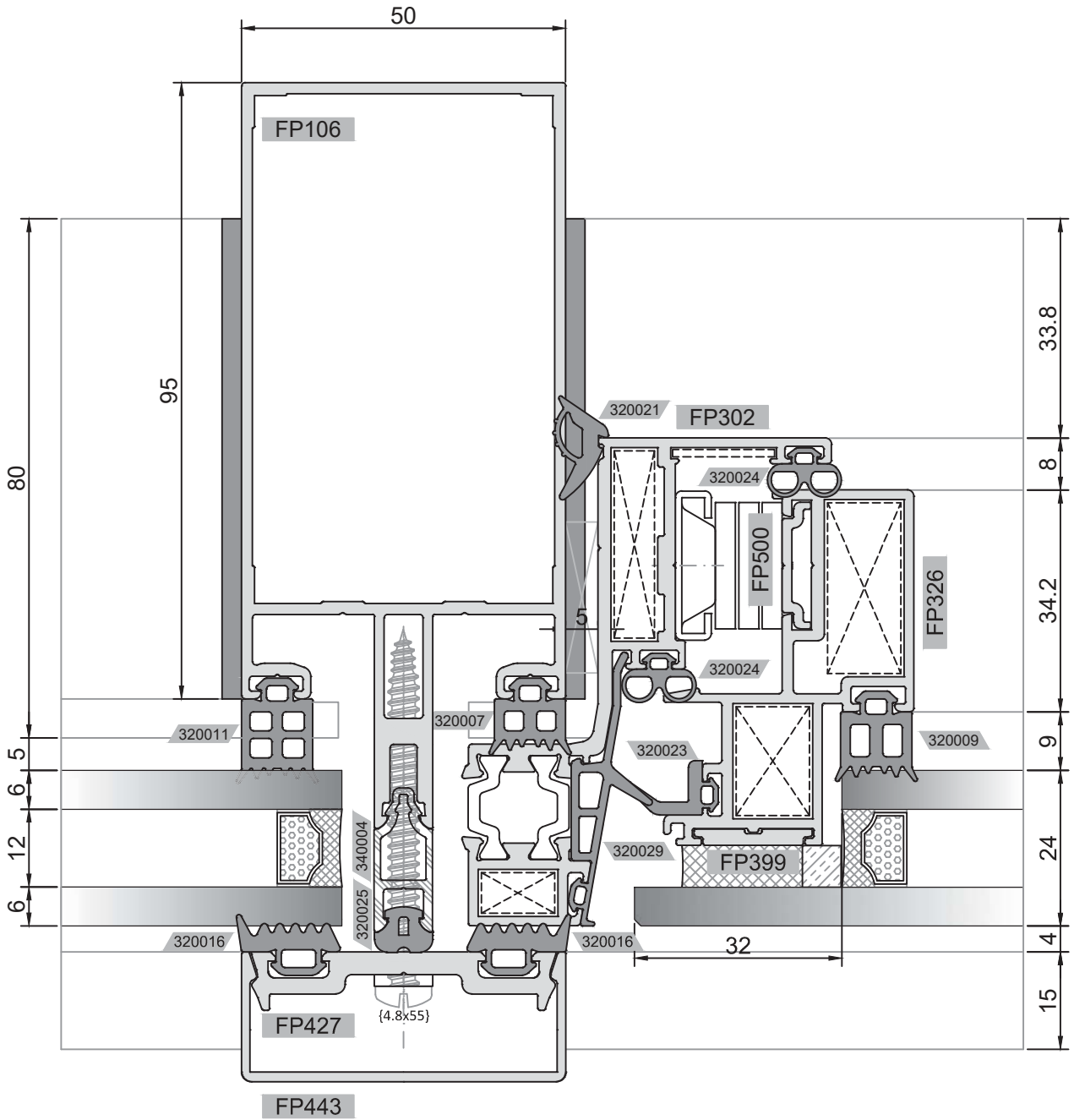
YATAY DETAYI
HORIZONTAL DETAIL

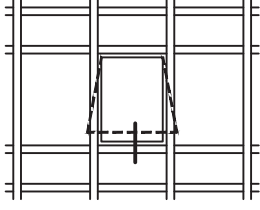




ALTERNATİF 3: EKONOMİK KANAT DETAYI
ALTERNATIVE 3 : ECONOMICAL VENT DETAIL

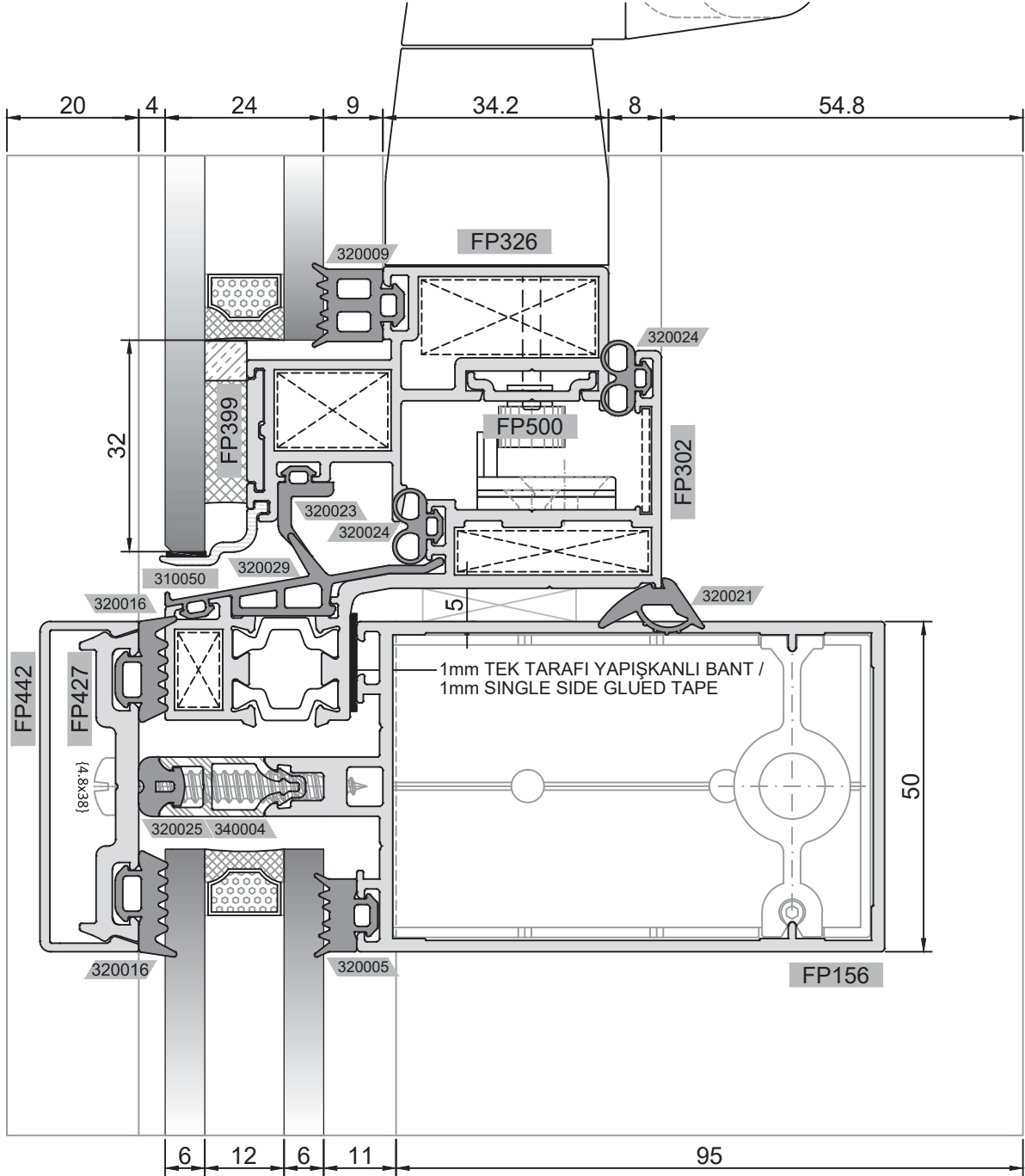
DÜŞEY DETAYI
VERTICAL DETAIL

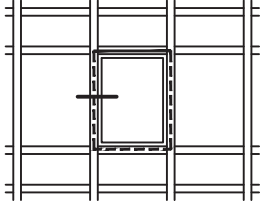




ALTERNATİF 3: EKONOMİK KANAT DETAYI
ALTERNATIVE 3 : ECONOMICAL VENT DETAIL

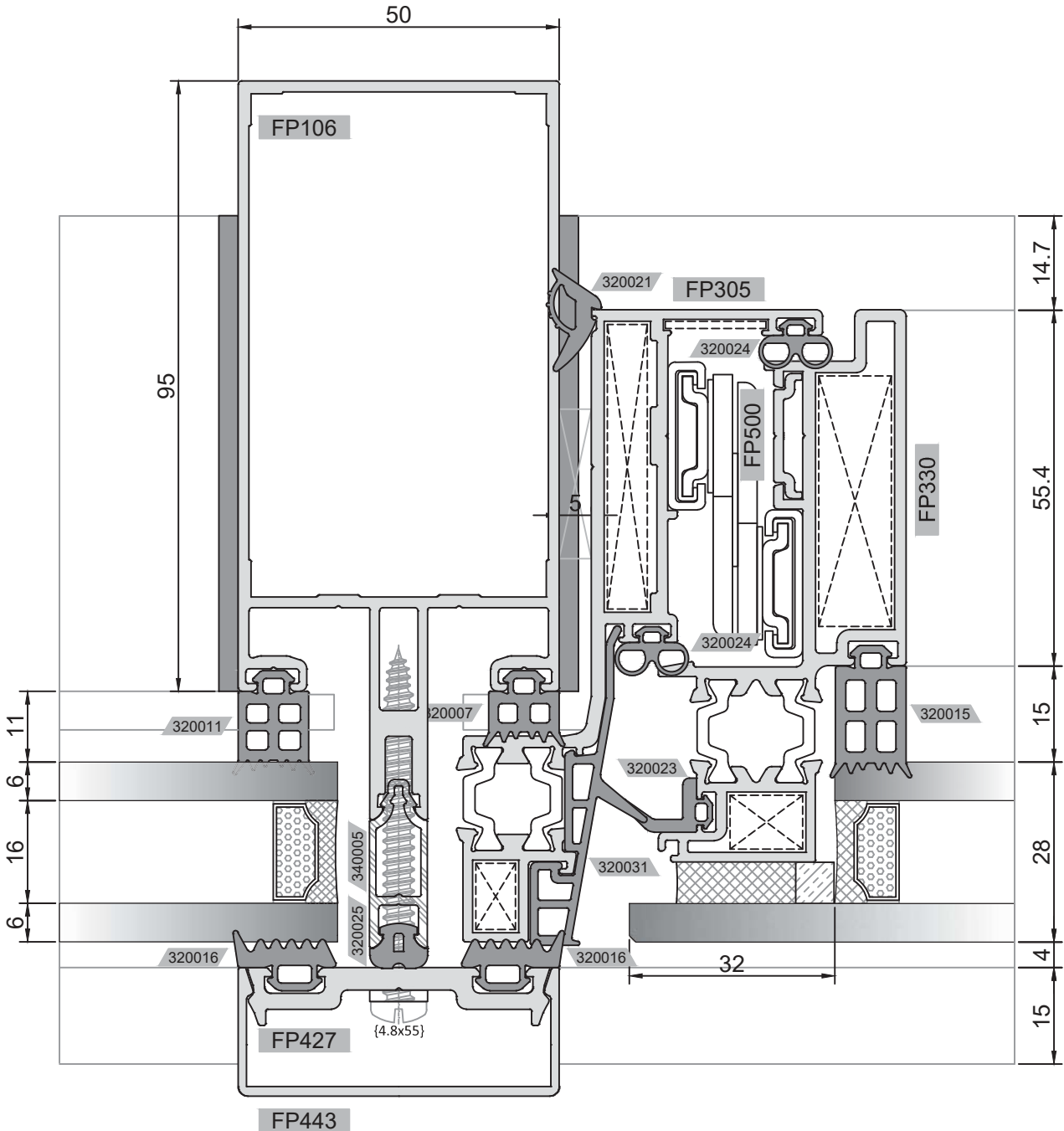
YATAY DETAYI
HORIZONTAL DETAIL

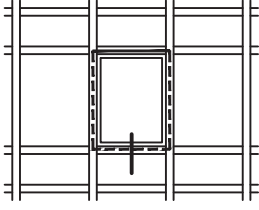




ALTERNATİF 1: YALITIMLI PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 1 : PARALLEL OPENING INSULATED VENT DETAIL

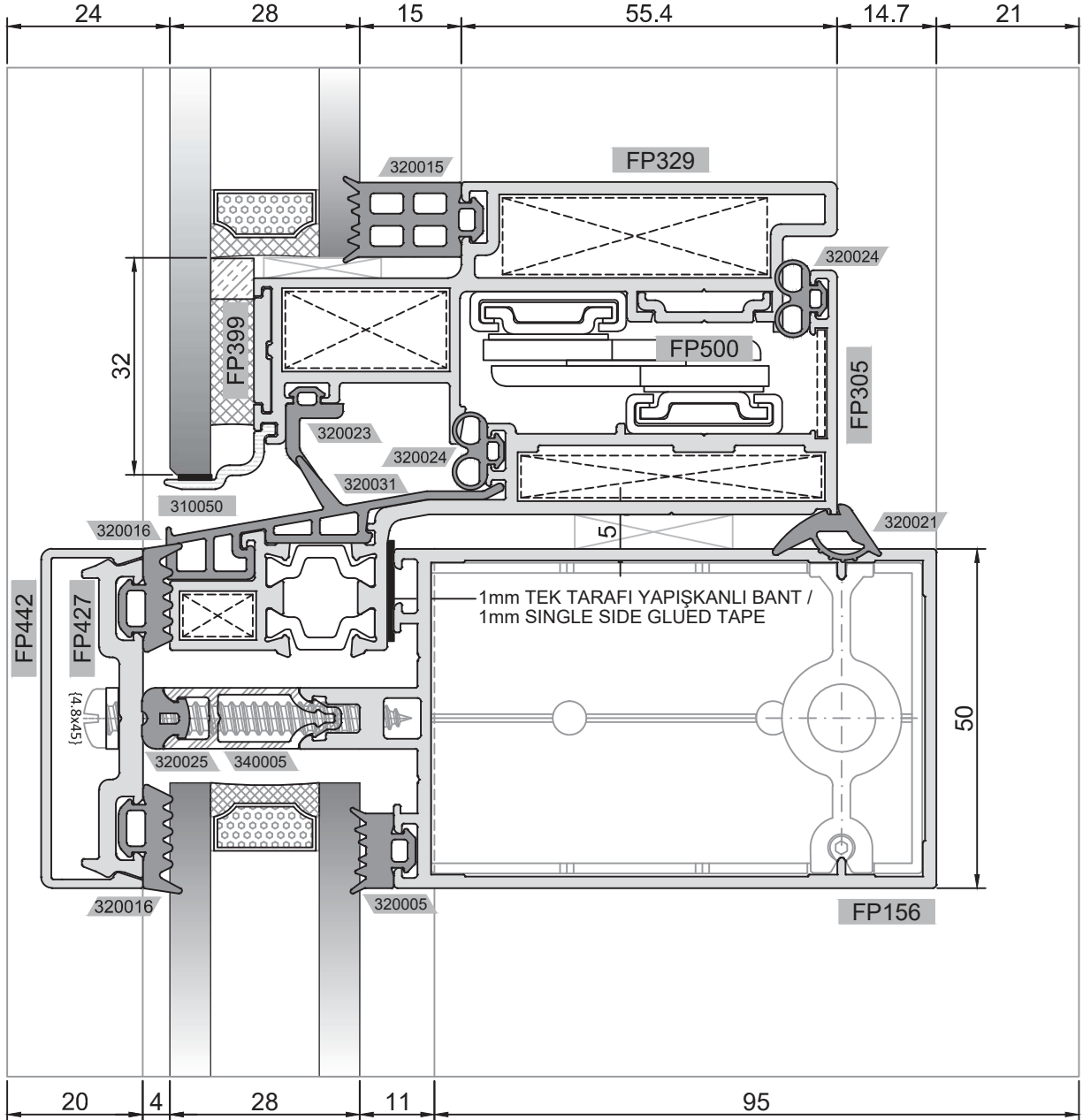
DÜŞEY DETAYI
VERTICAL DETAIL

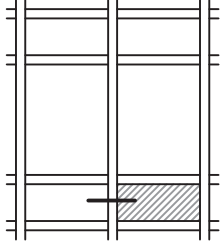




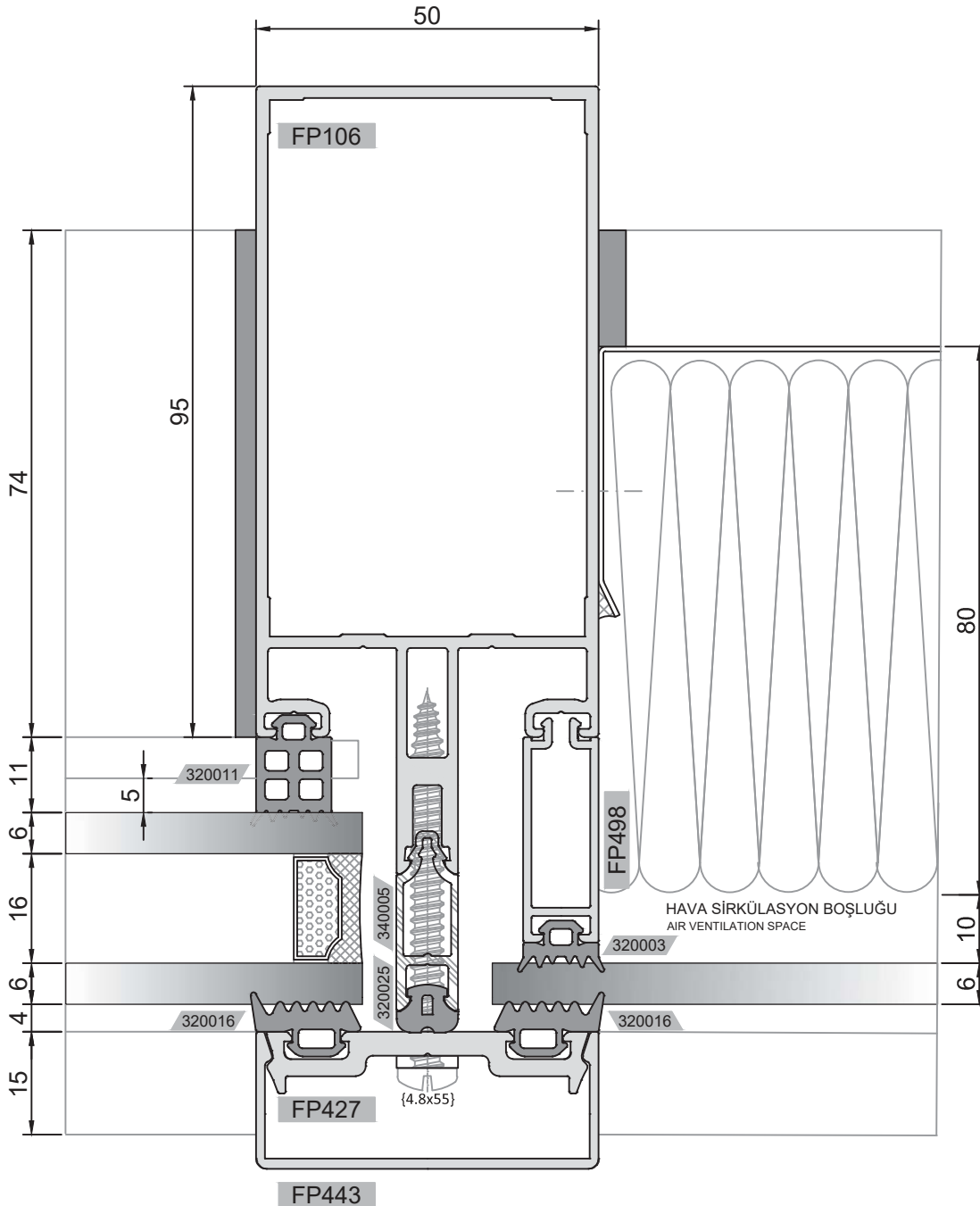
ALTERNATİF 2: YALITIMSIZ PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 2 : PARALEL OPENING UNINSULATED VENT DETAIL

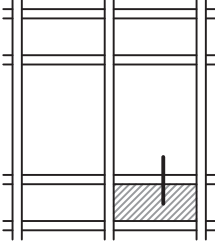
YATAY DETAYI
HORIZONTAL DETAIL



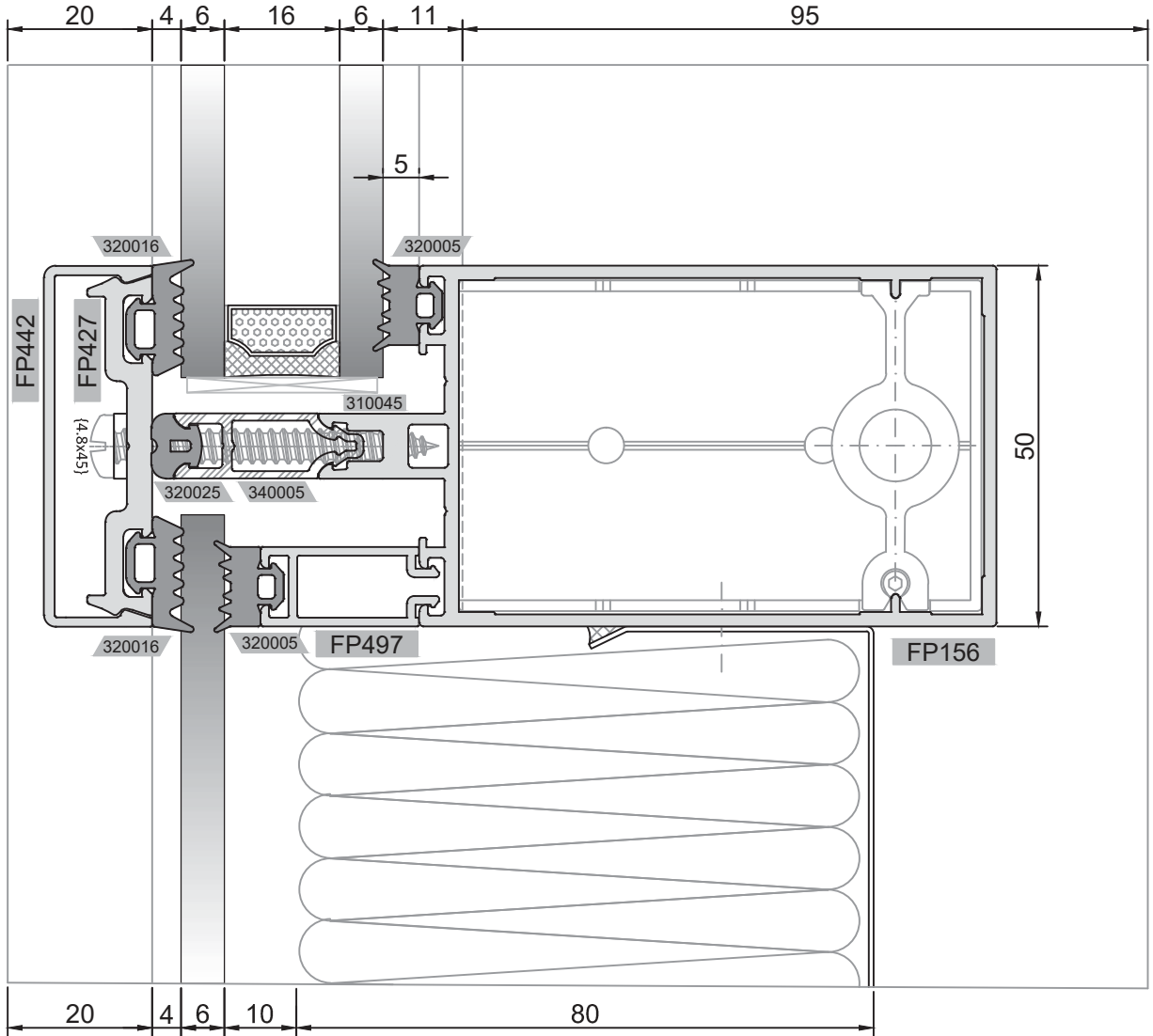


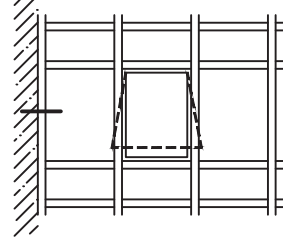
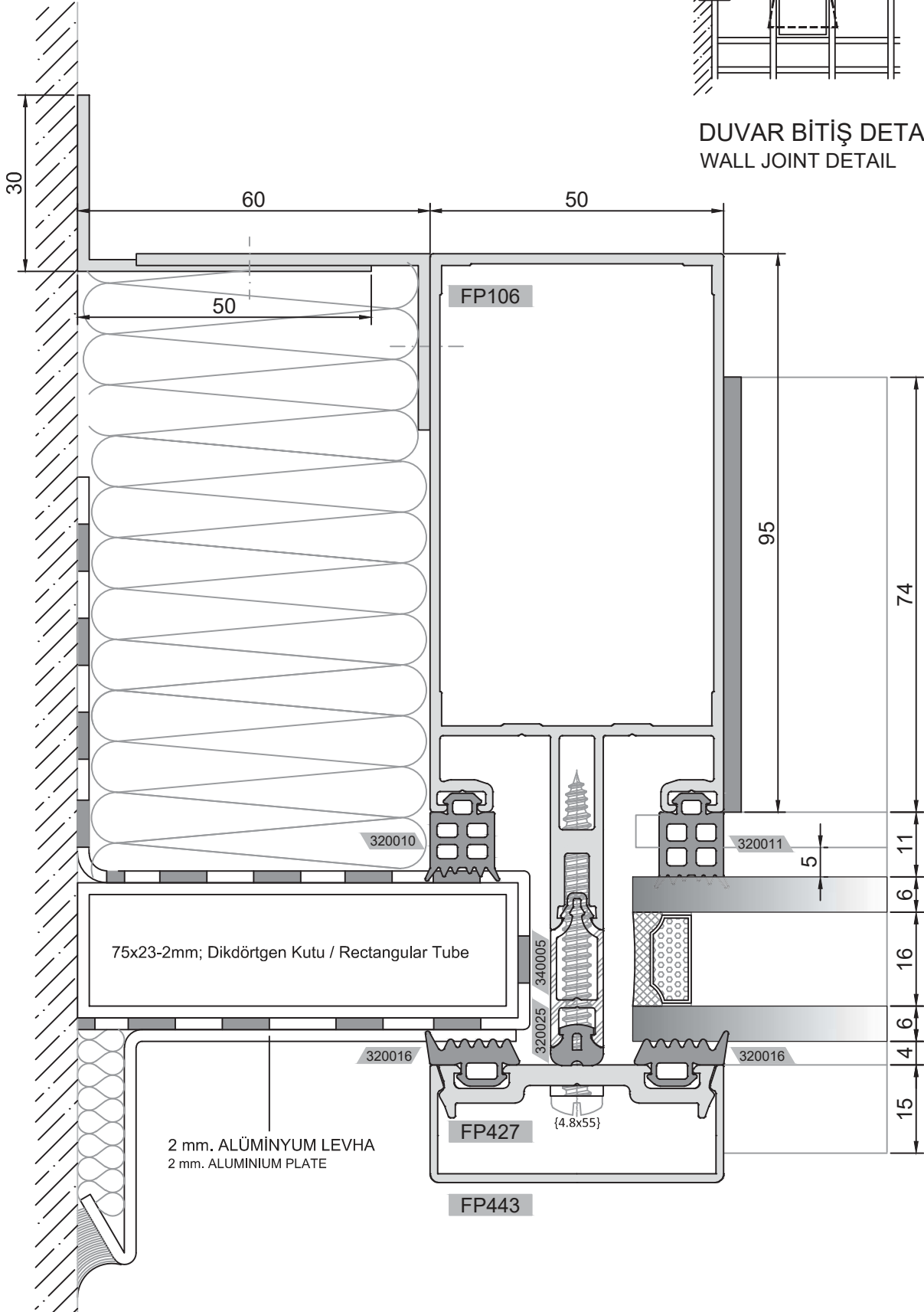
SPANDREL BÖLGE DÜŞEY DETAYI
SPANDREL AREA VERTICAL DETAIL

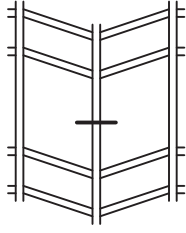




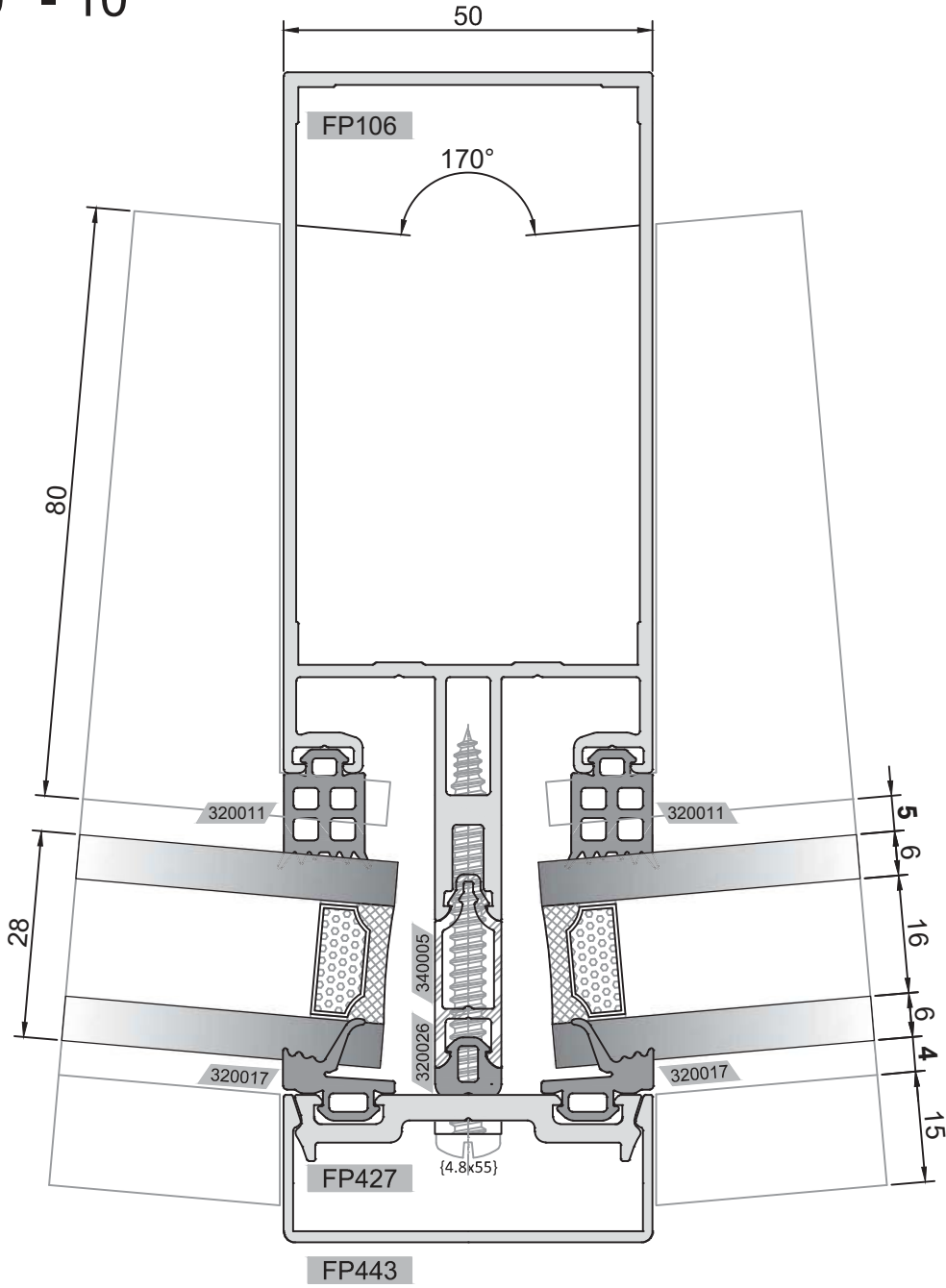
SPANDREL BÖLGE YATAY DETAYI
SPANDREL AREA HORIZONTAL DETAIL

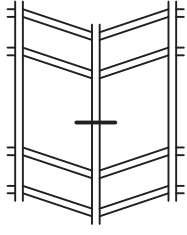


DUVAR BİTİŞ DETAYI
WALL JOINT DETAIL

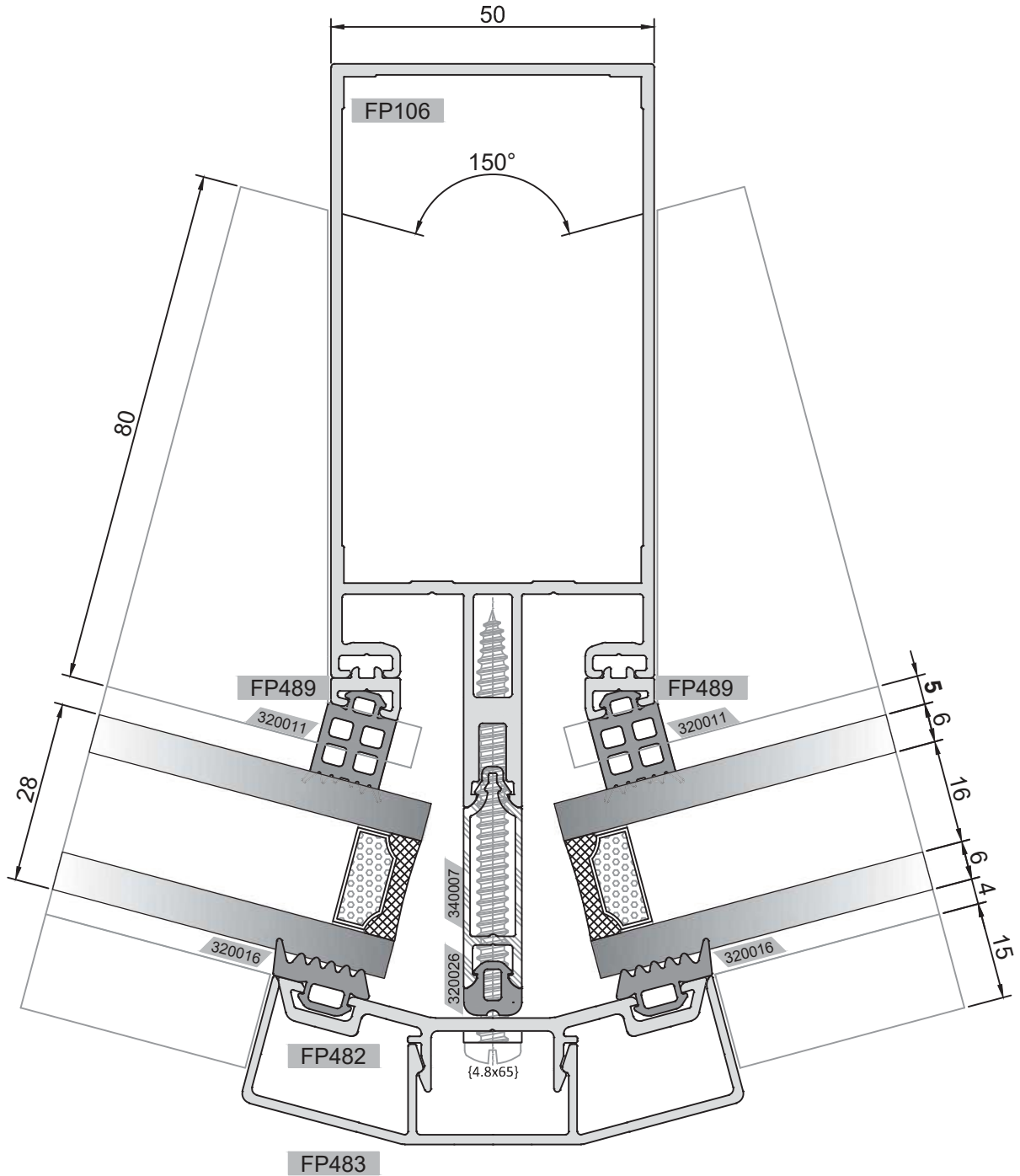


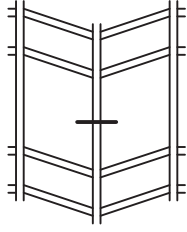
0° - 10°



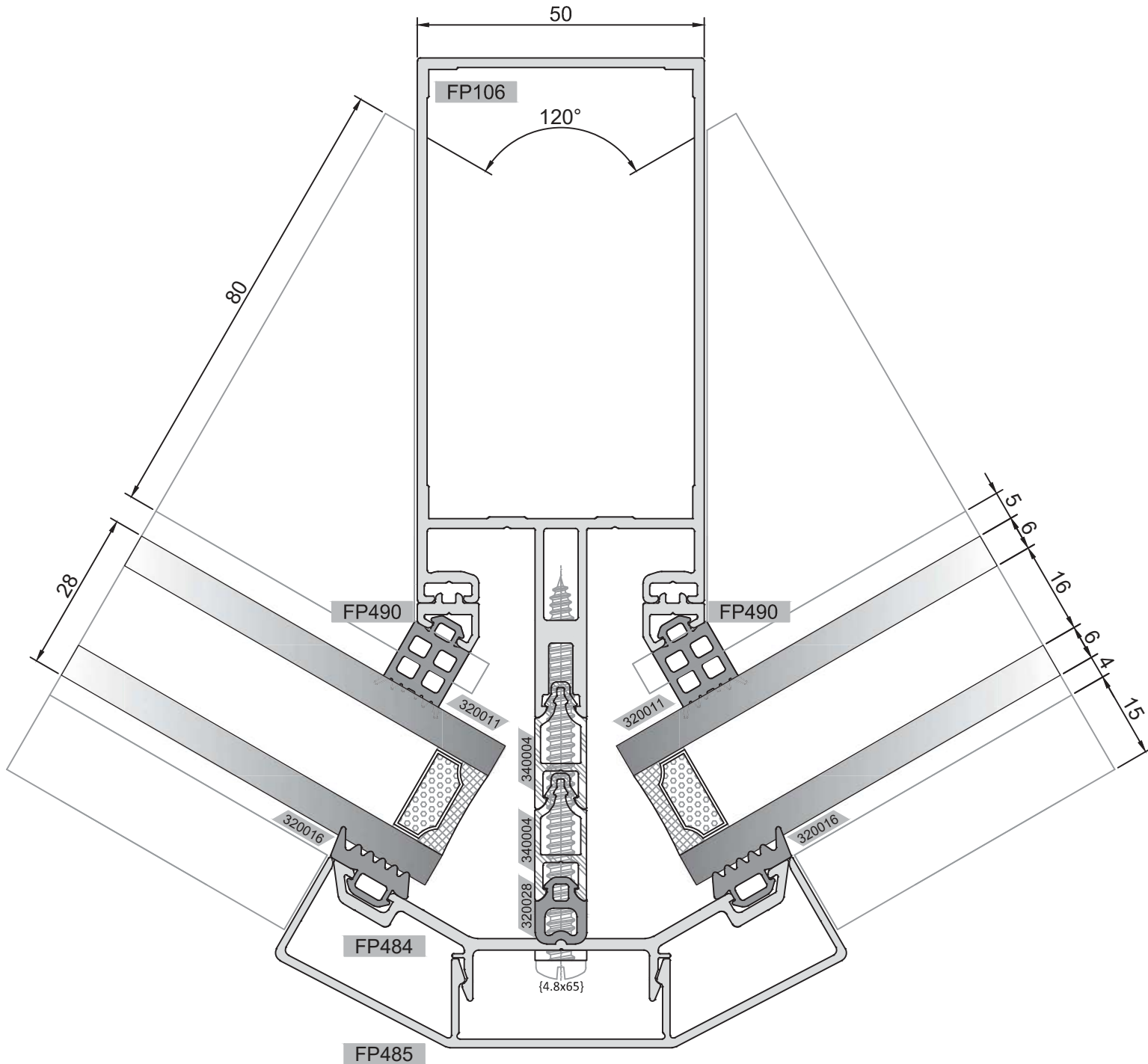


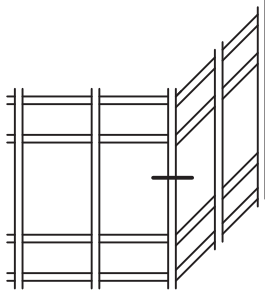
10° - 30°



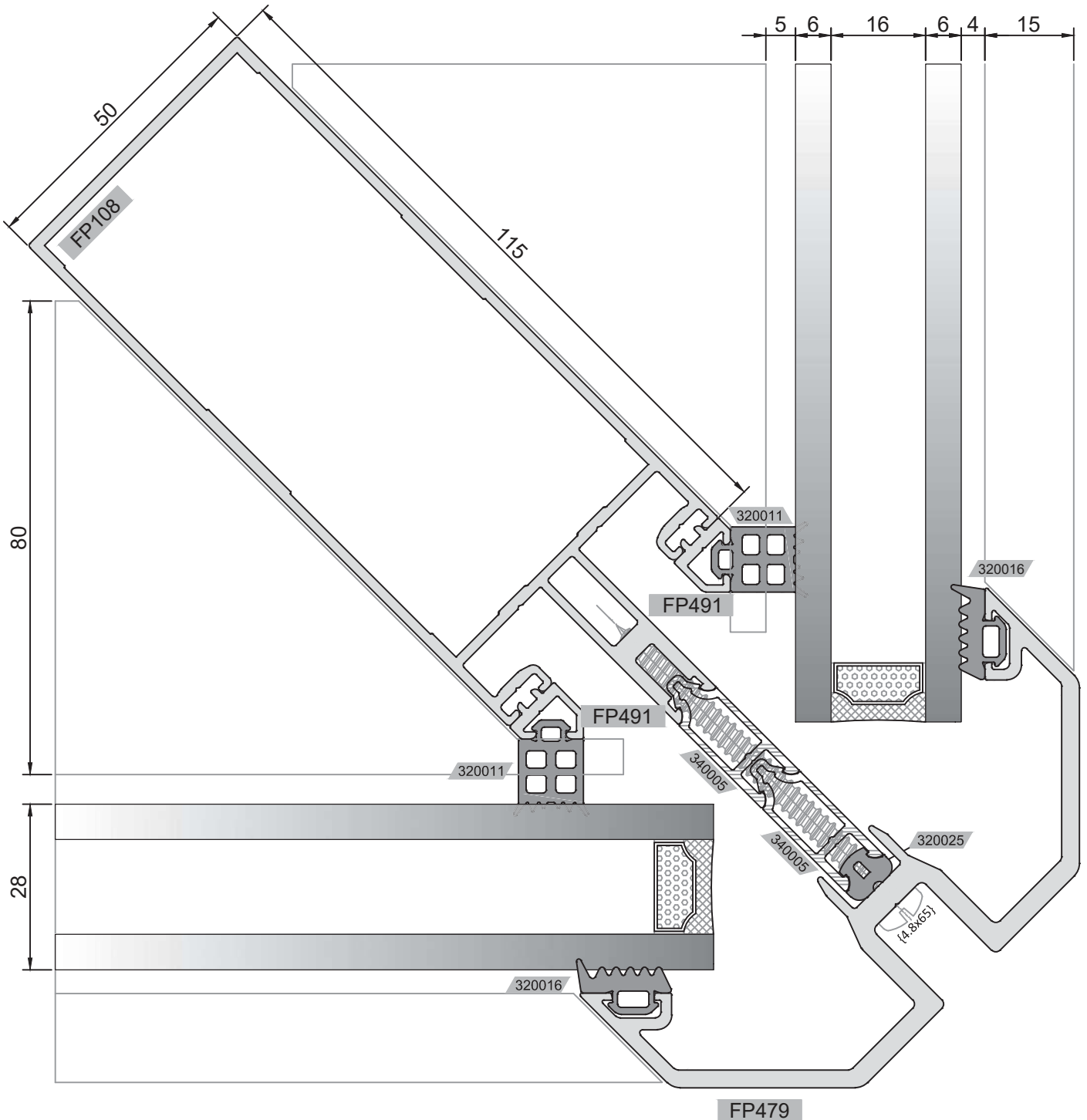


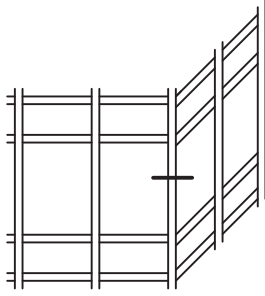
30° - 60°





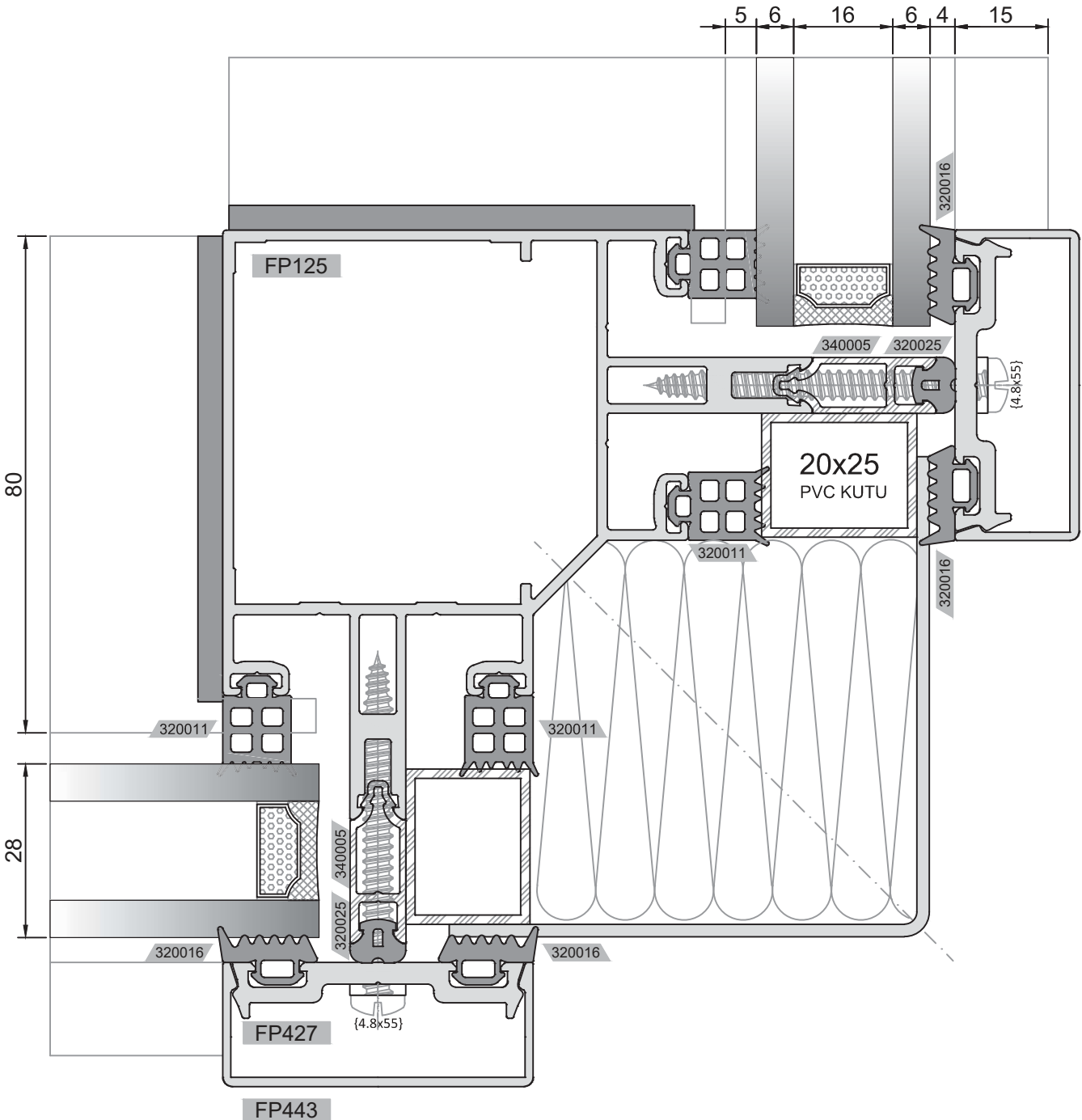
ALTERNATİF 1: TEK KAPAKLI KÖŞE DETAYI
ALTERNATIVE 1 : CORNER DETAIL WITH SINGLE CAP

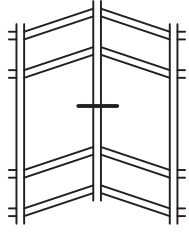




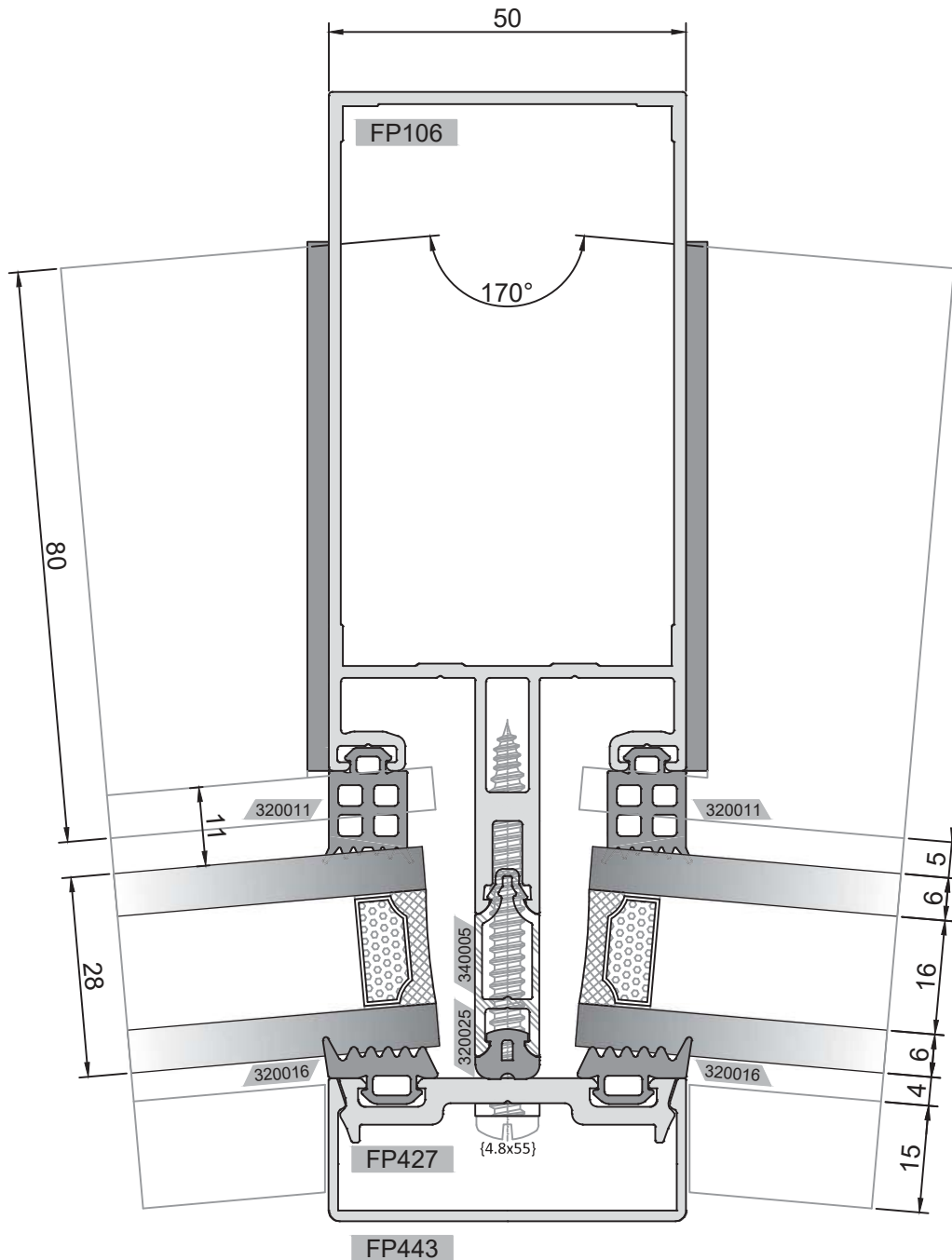
ALTERNATİF 2: ÇİFT KAPAKLI KÖŞE DETAYI
ALTERNATIVE 2 : CORNER DETAIL WITH DOUBLE CAP

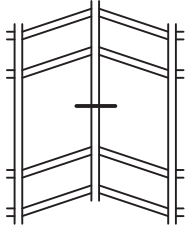
90°



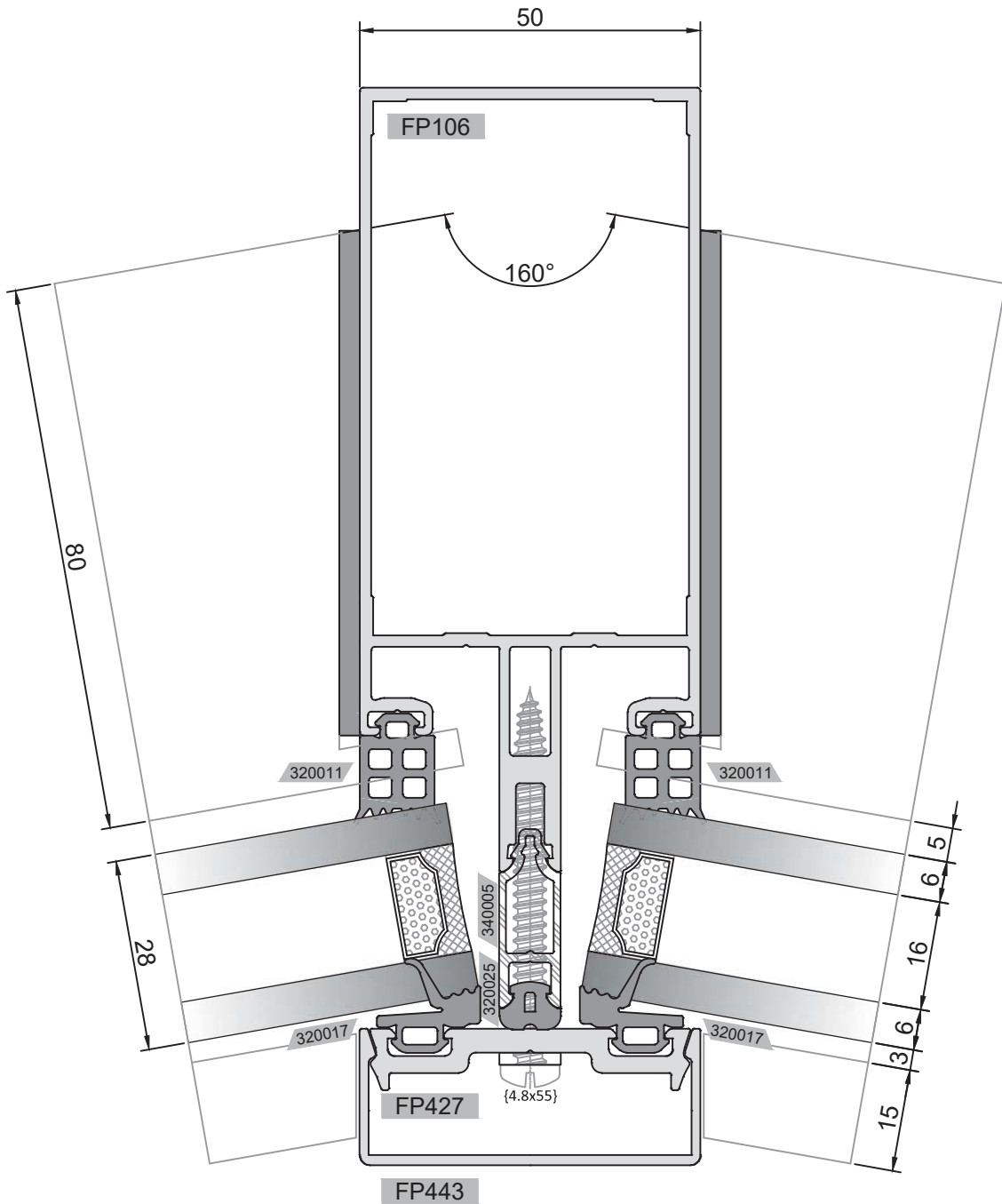


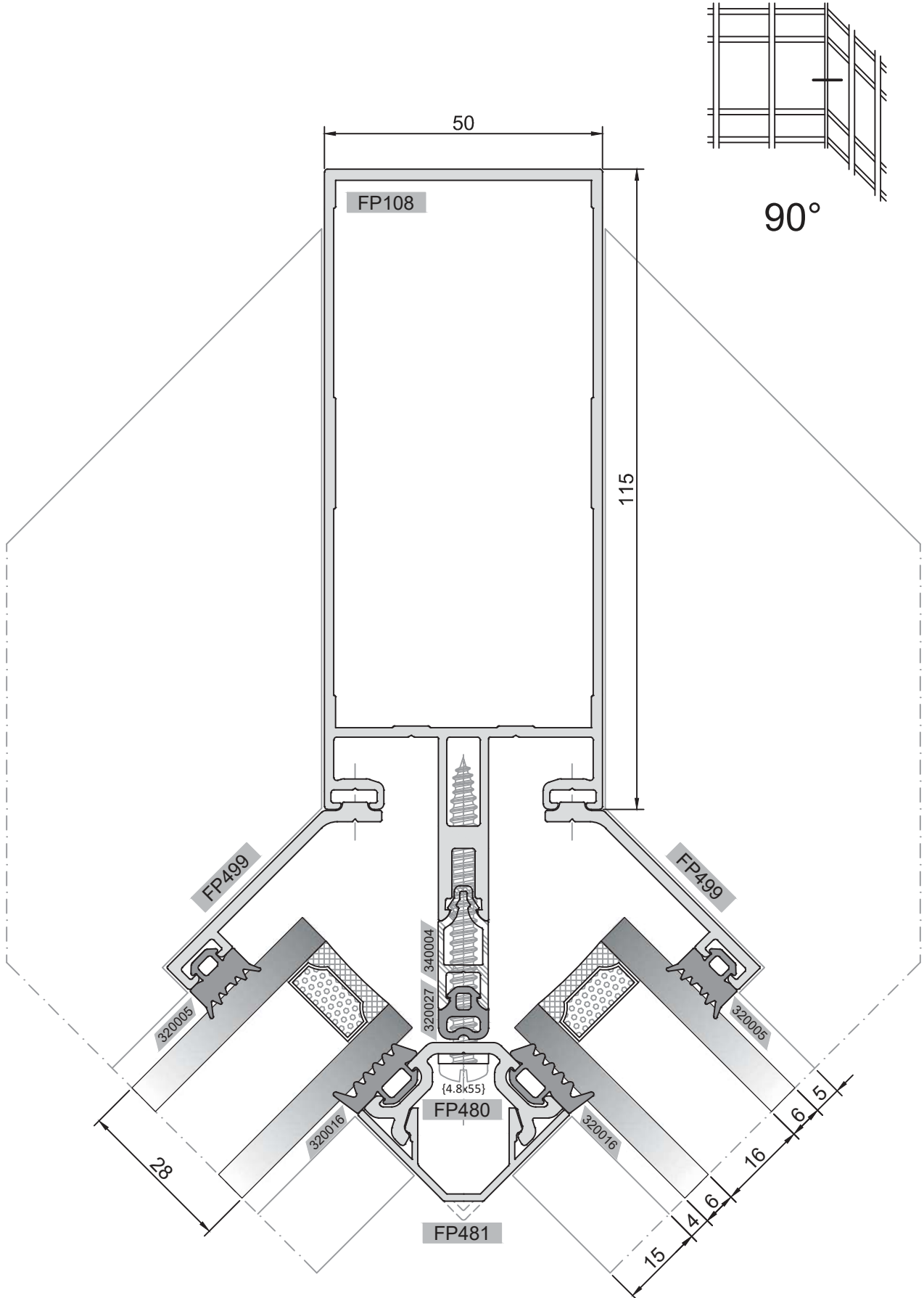
10° - 0°

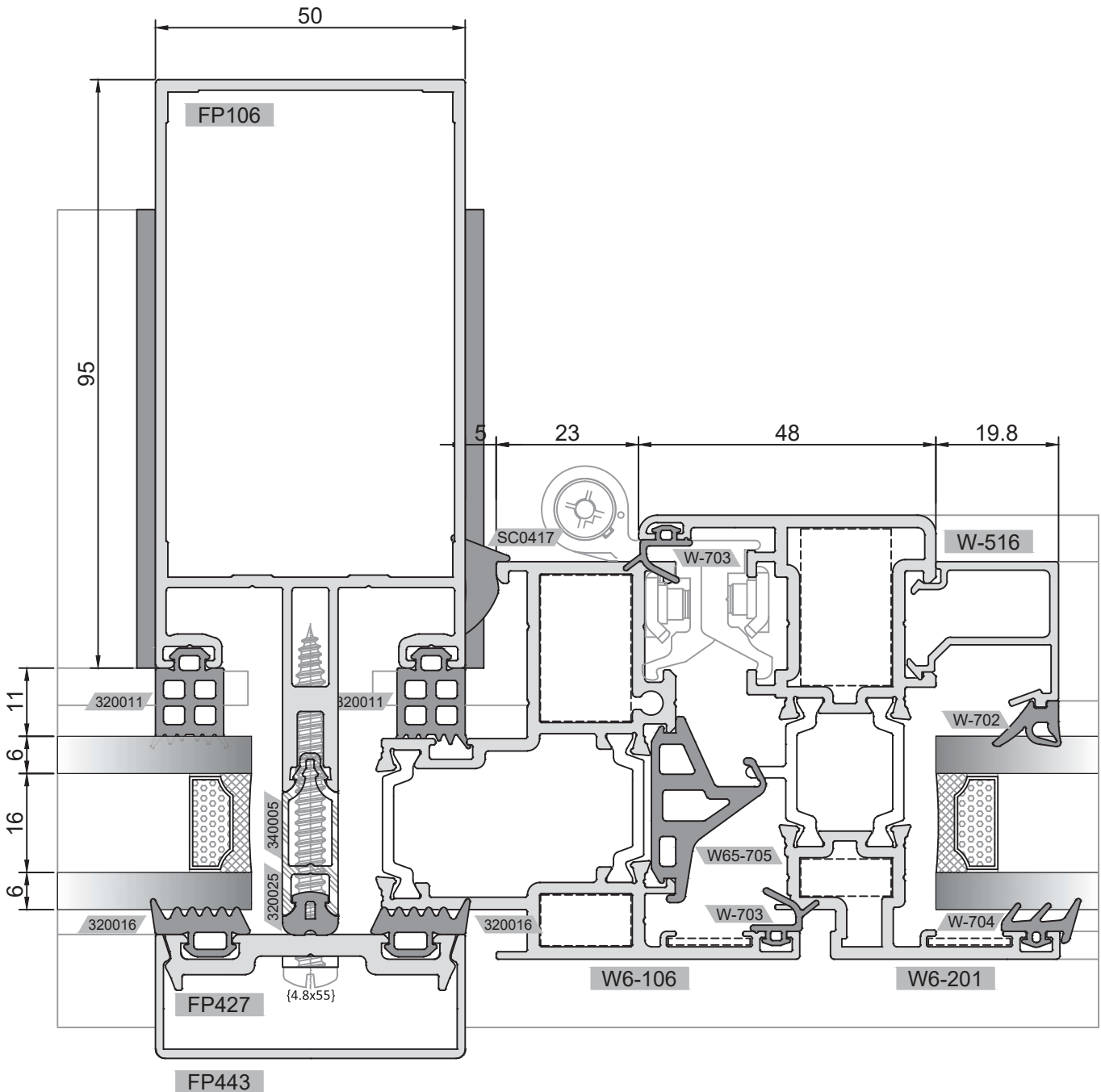
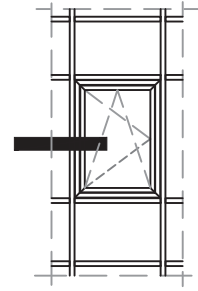


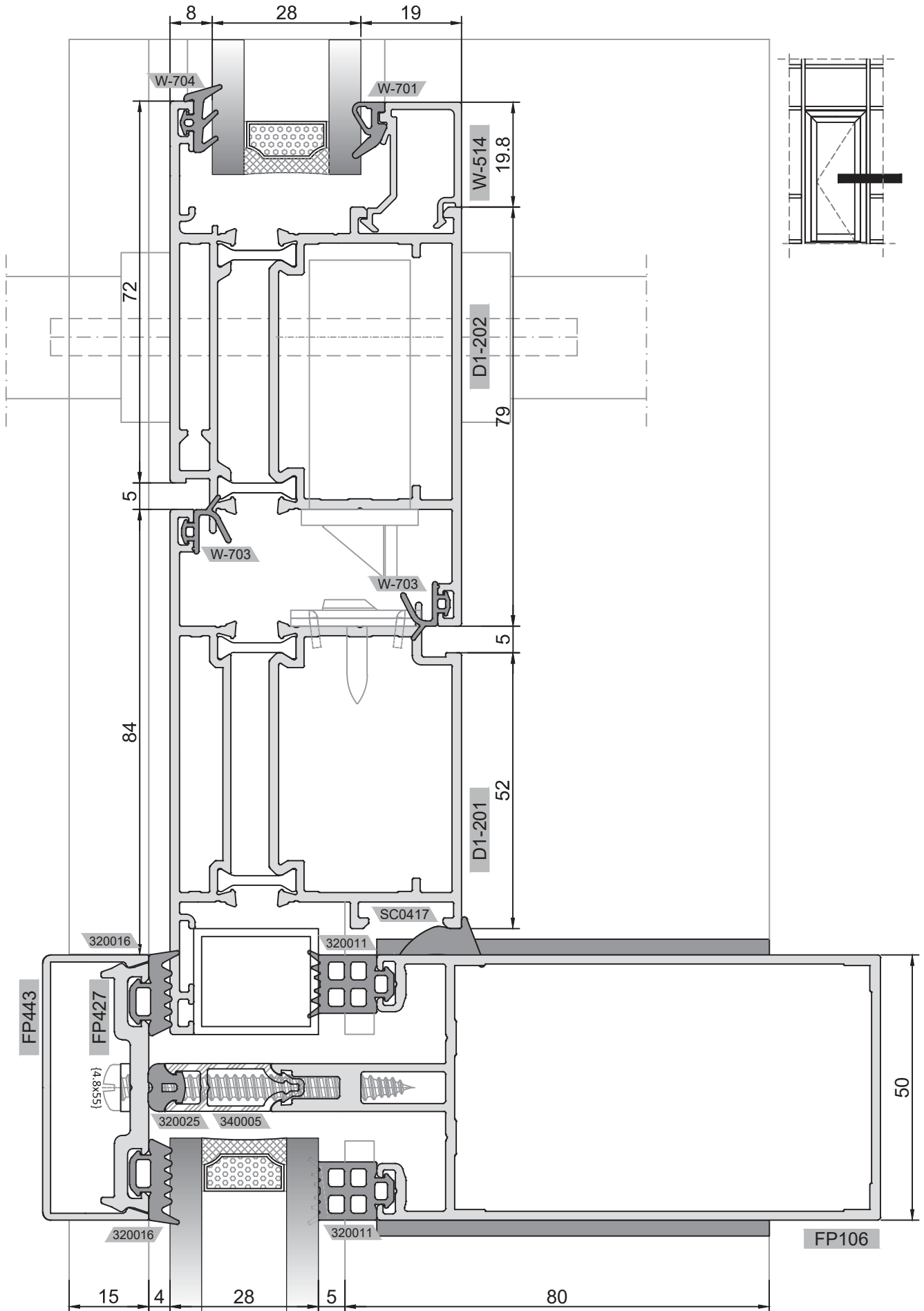


20° - 10°

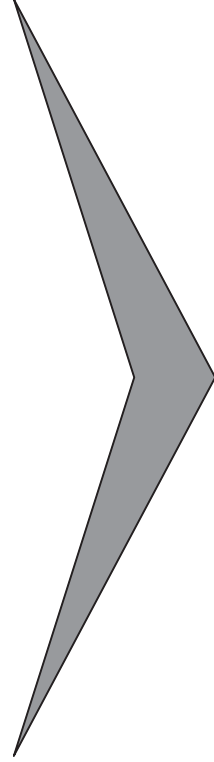






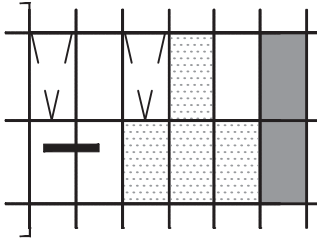


ENTEĞRE CEPHE INTEGRATED CURTAIN WALL

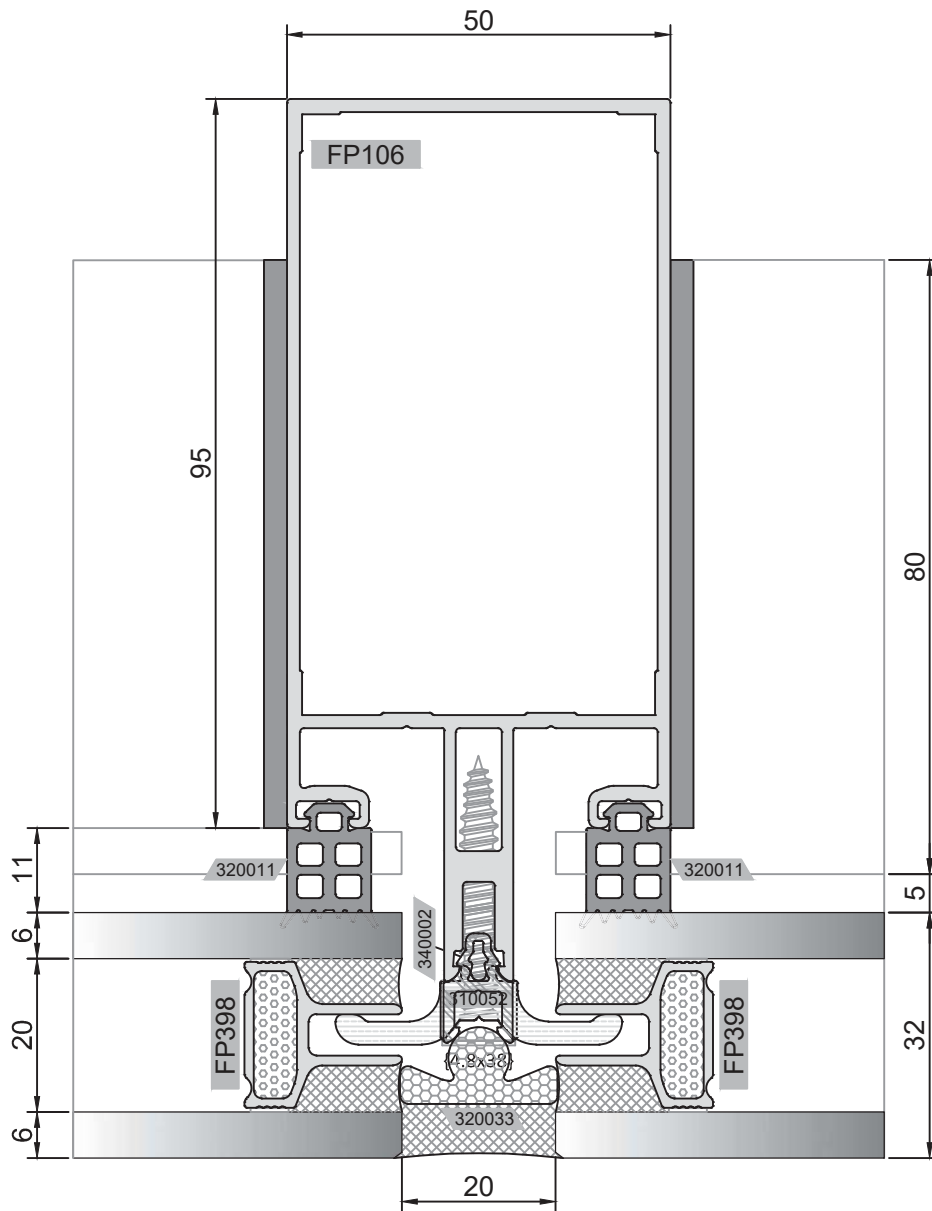


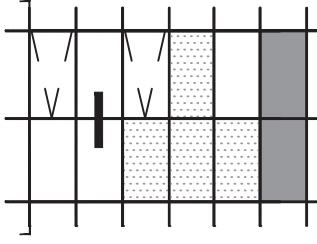
* 20mm STANDART
ALÜMİNYUM ISICAM
ÇİTASI
20mm STANDARD
ALUMINIUM SPACER

► 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.

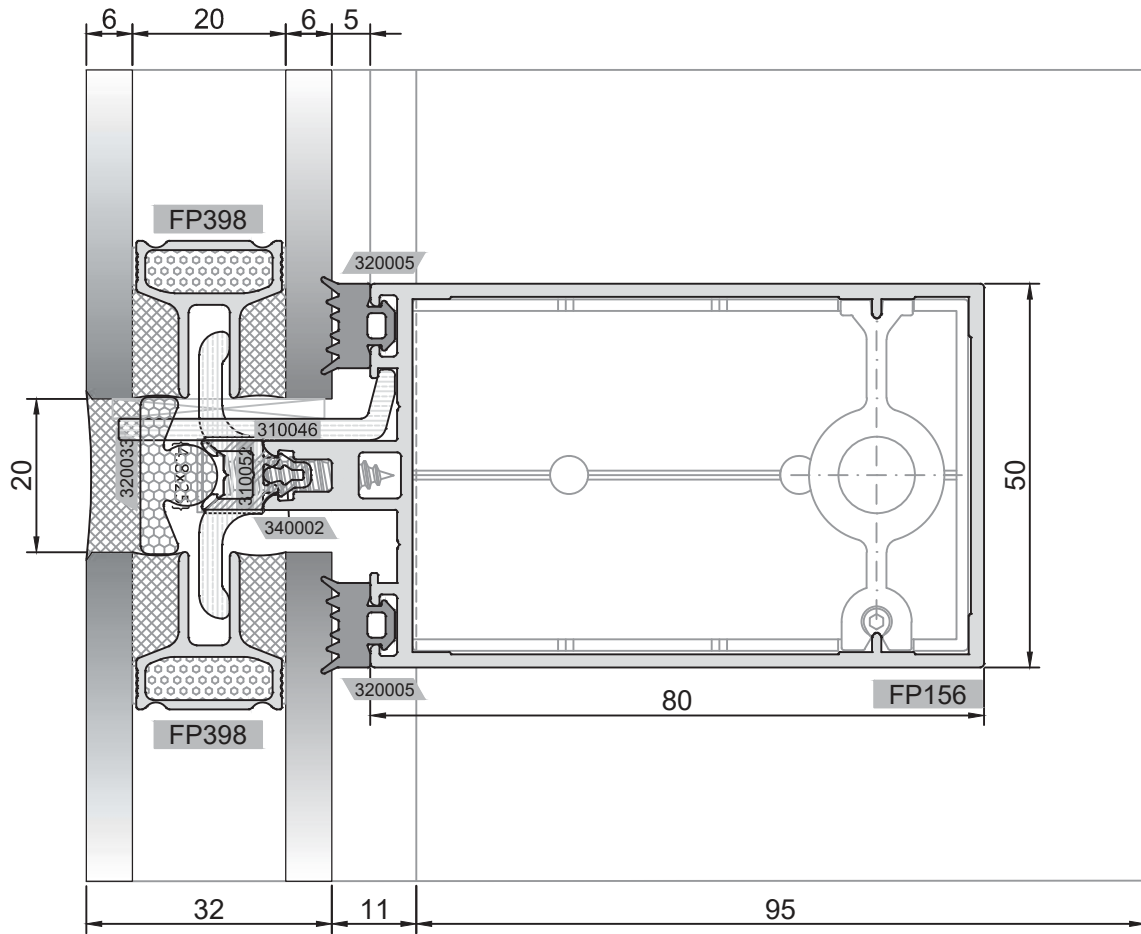


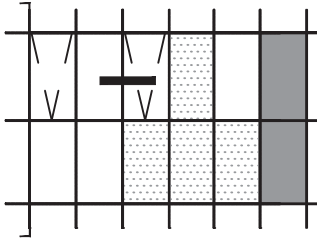
DÜŞEY DETAYI
VERTICAL DETAIL





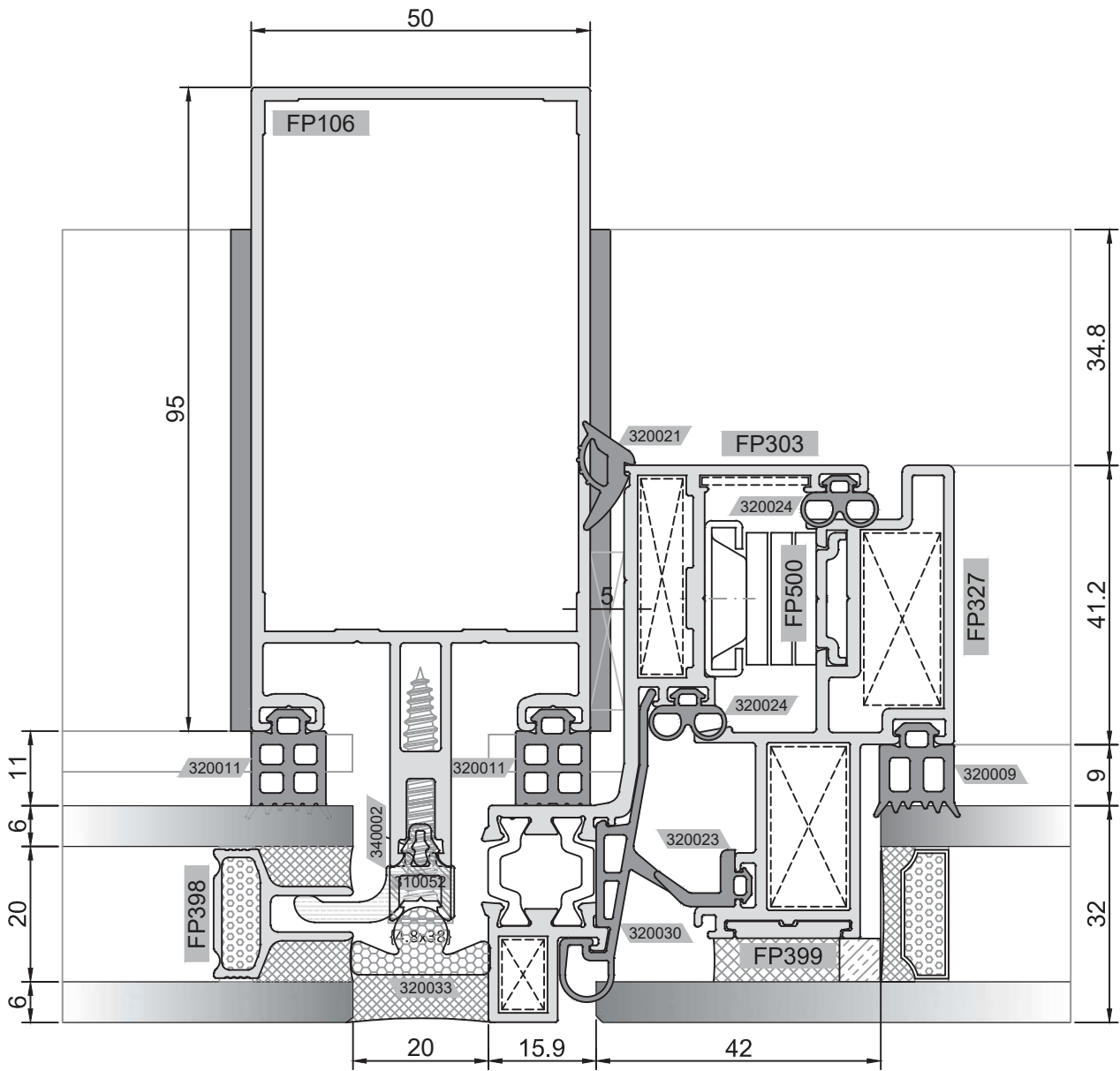
YATAY DETAYI
HORIZONTAL DETAIL

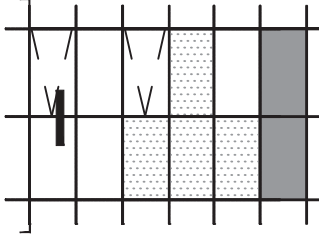




DÜŞEY DETAYI
VERTICAL DETAIL

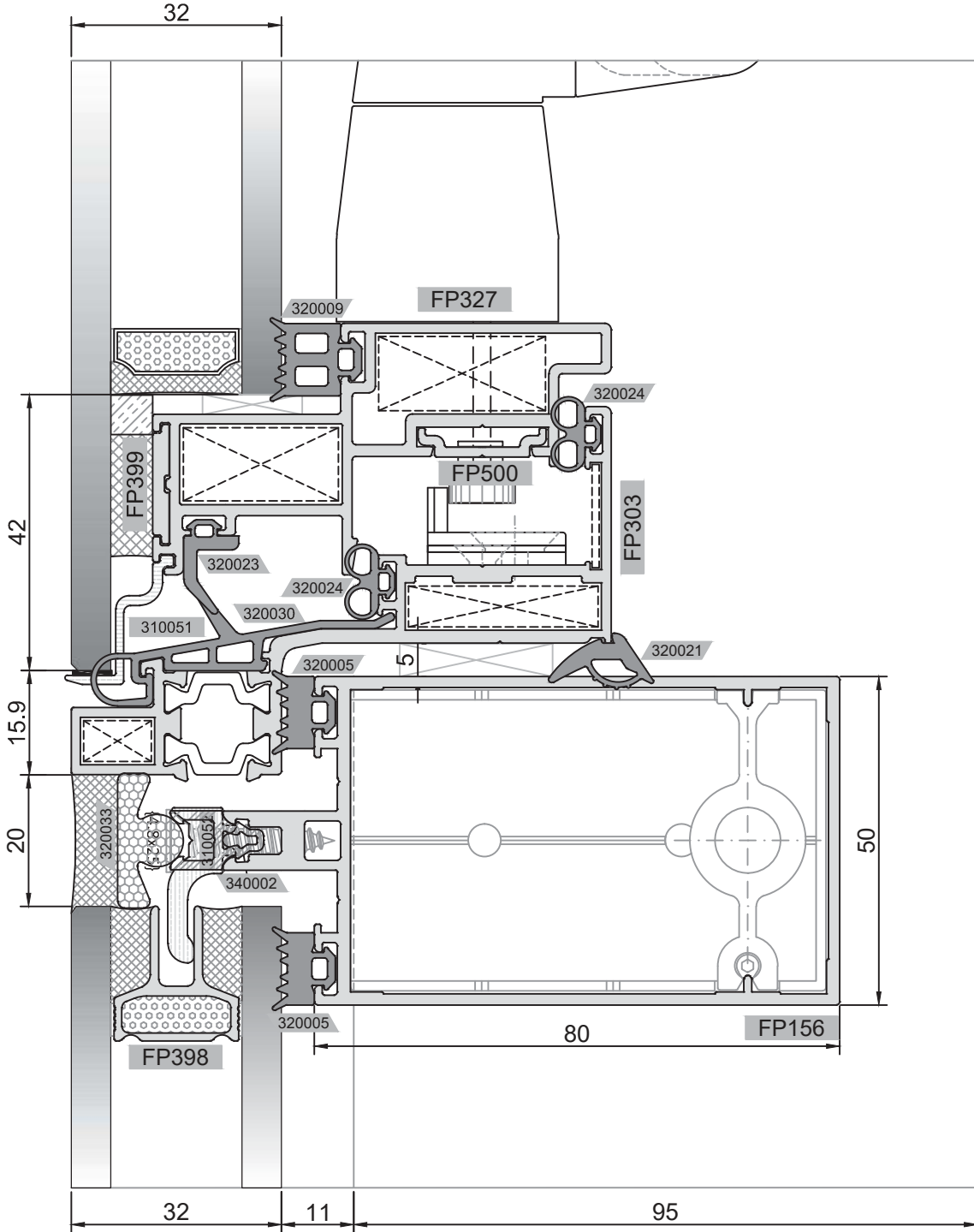
ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

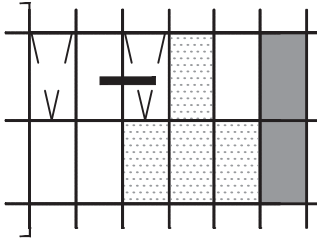




ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

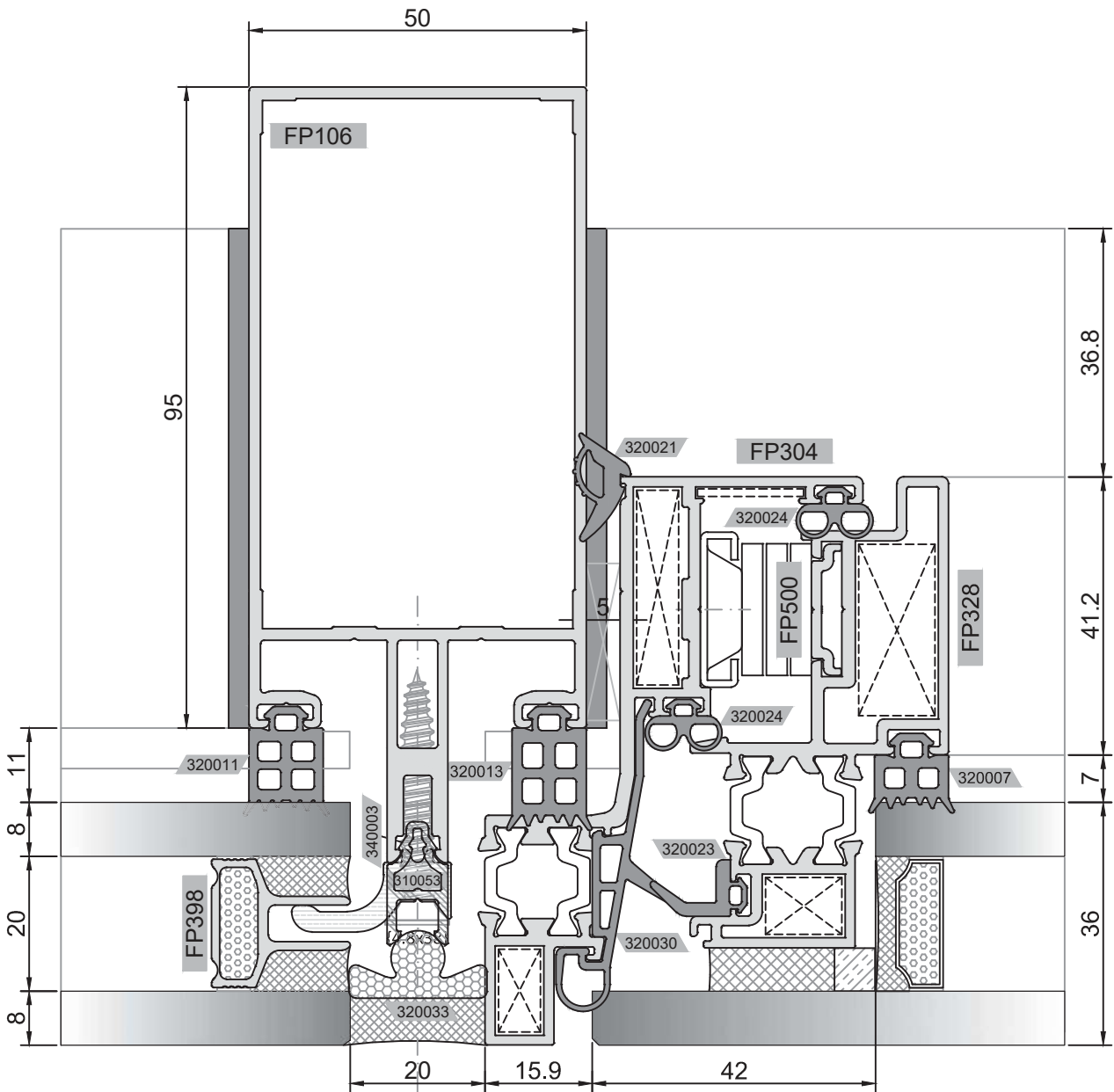
YATAY DETAYI
HORIZONTAL DETAIL

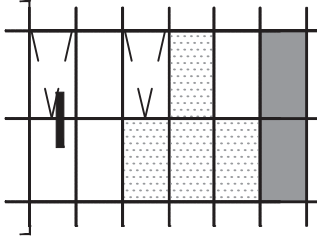




ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

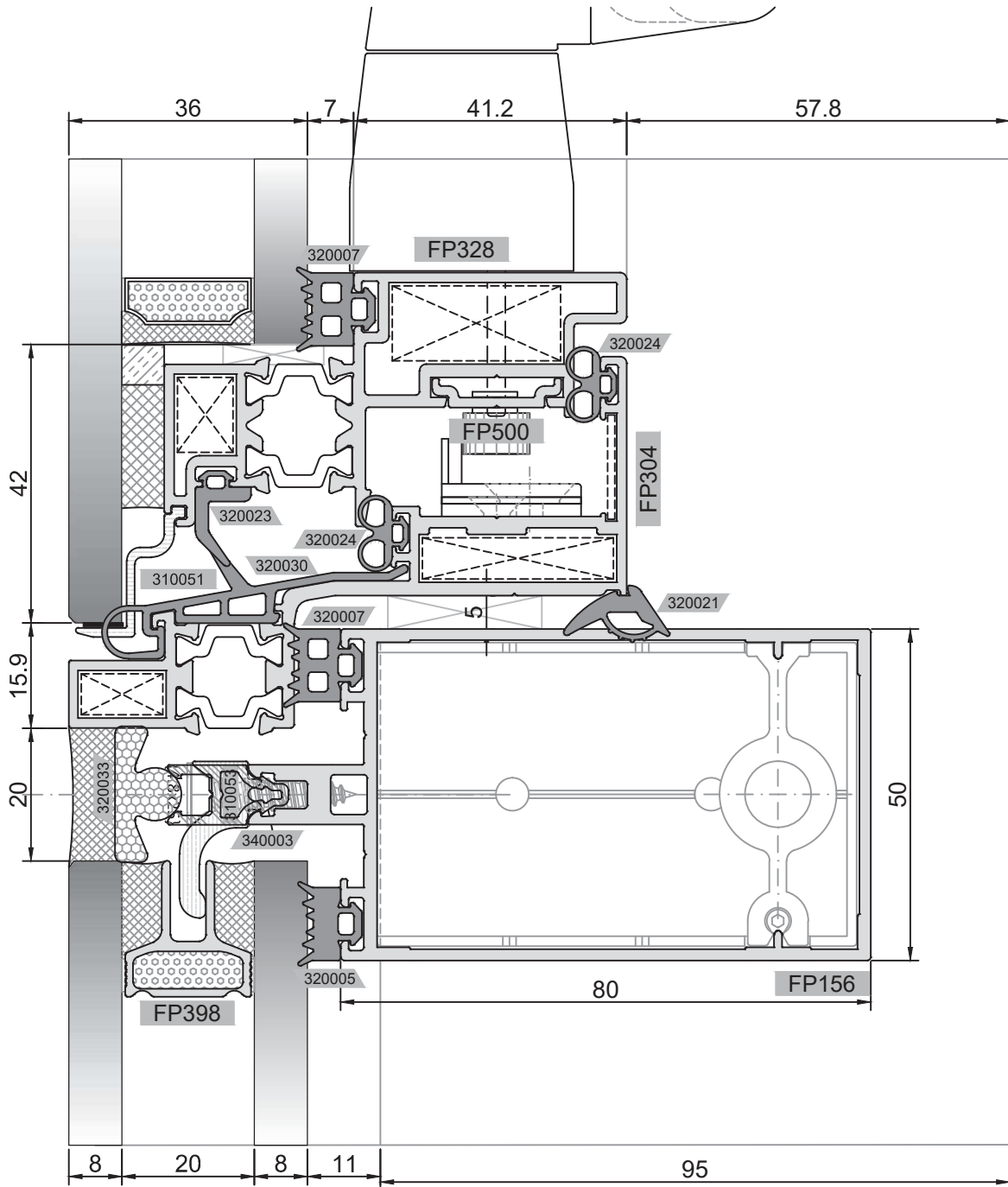
DÜŞEY DETAYI
VERTICAL DETAIL

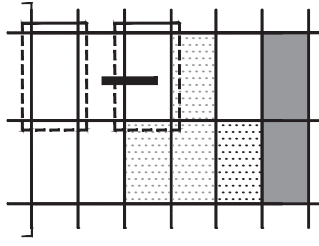




ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

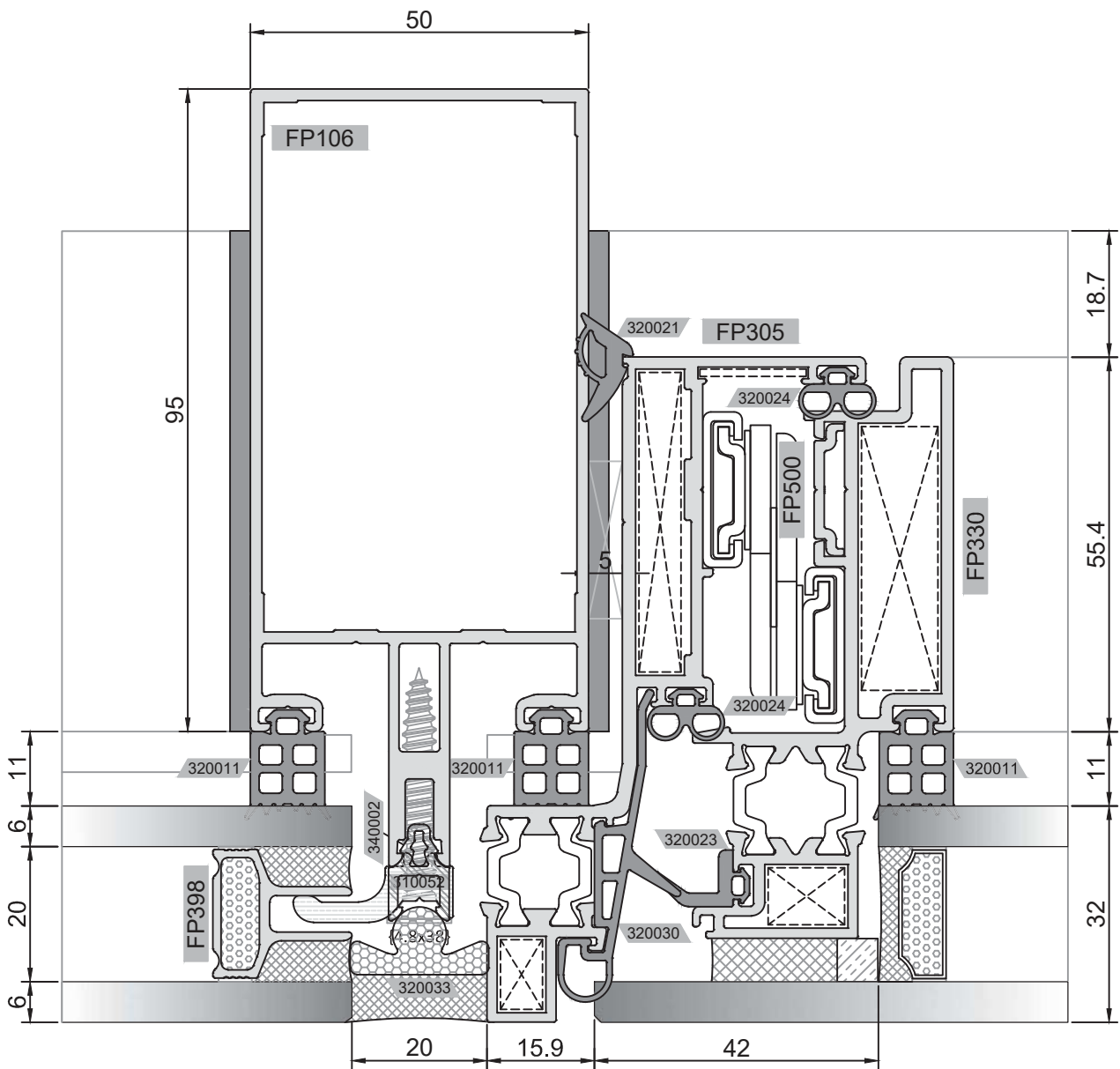
YATAY DETAYI
HORIZONTAL DETAIL

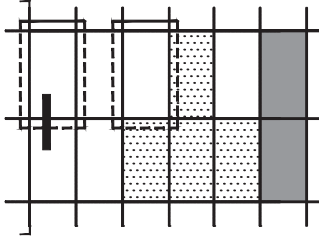




ALTERNATİF 1: YALITIMLI PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 1 : PARALLEL OPENING INSULATED VENT DETAIL

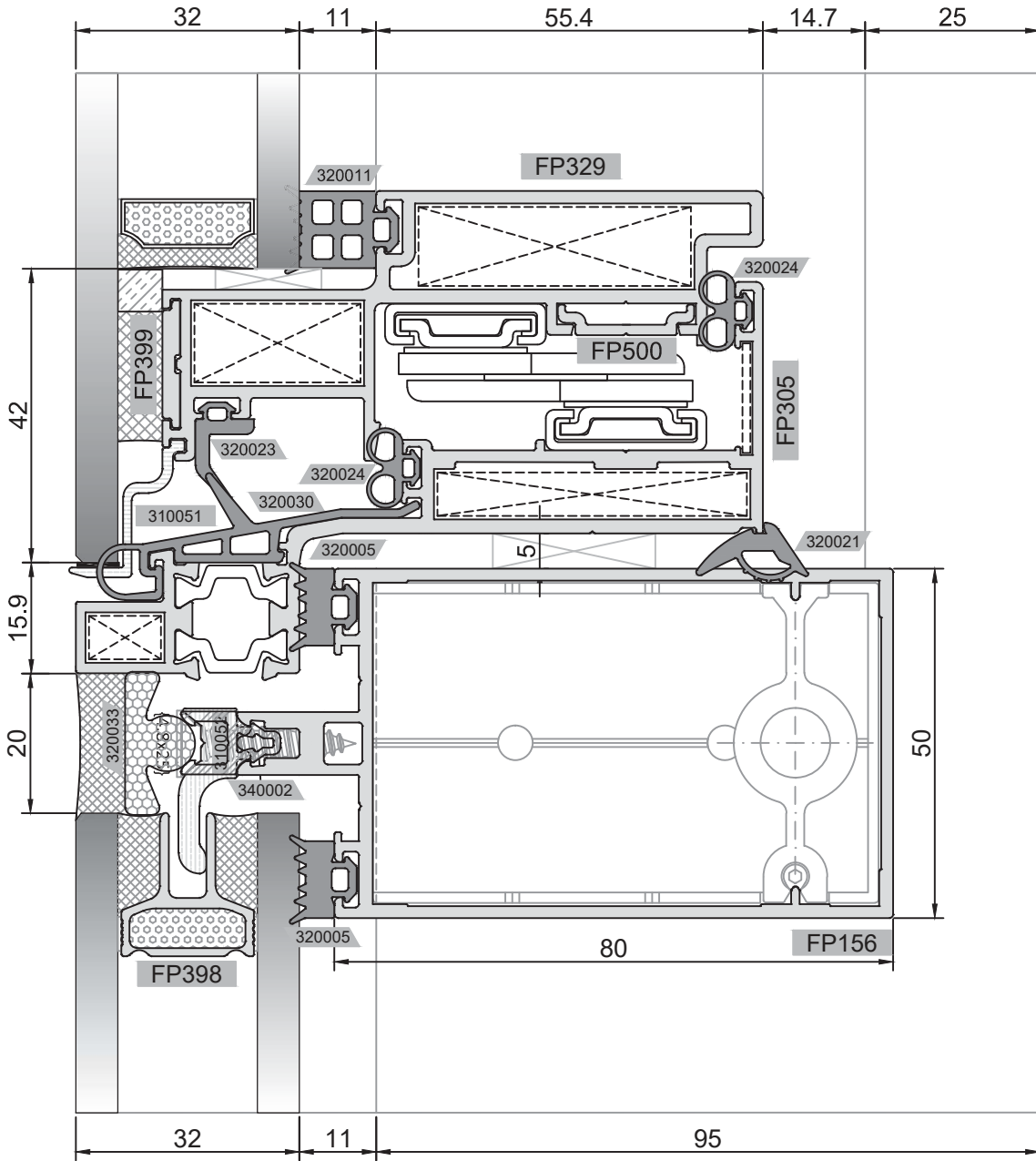
DÜŞEY DETAYI
VERTICAL DETAIL

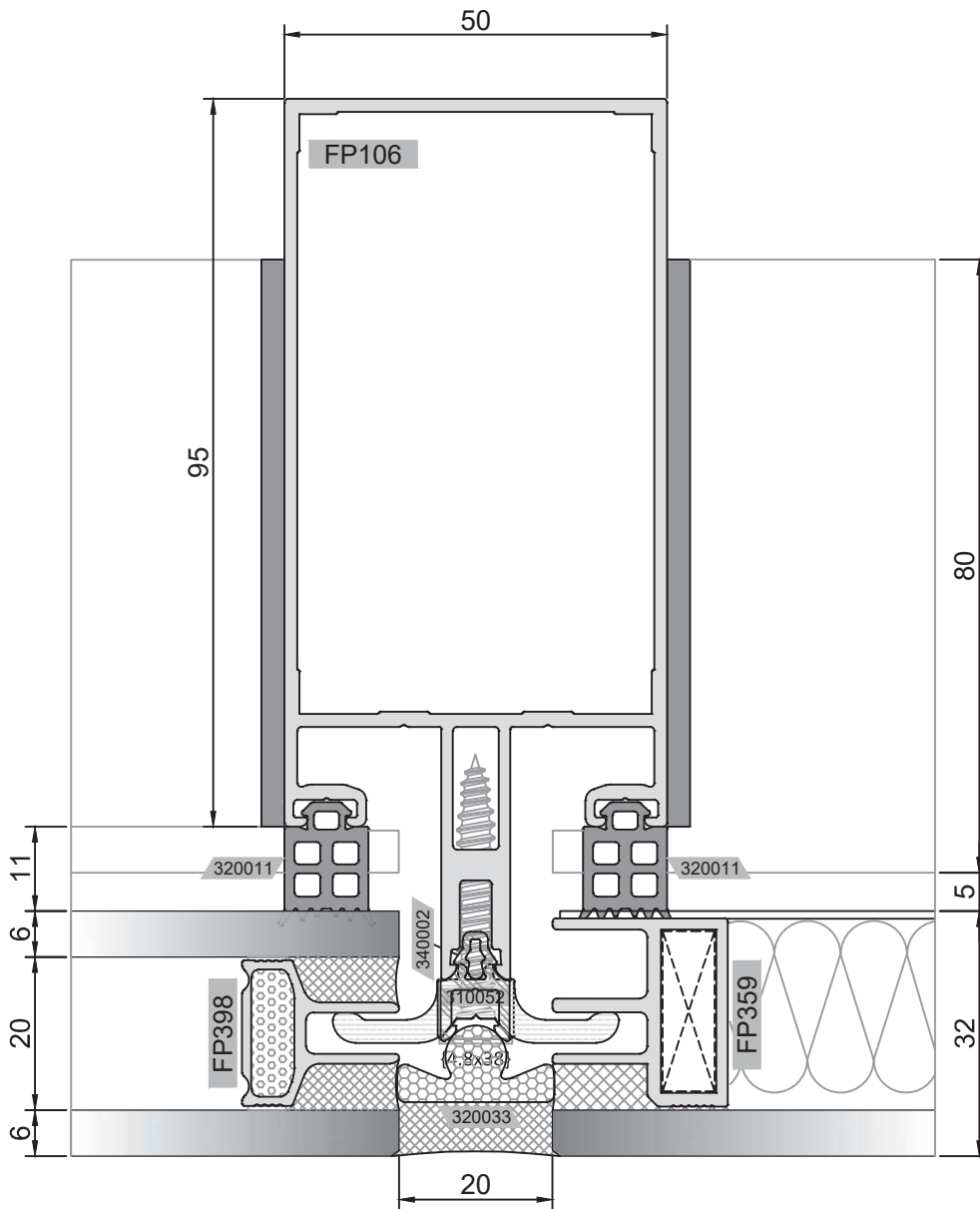
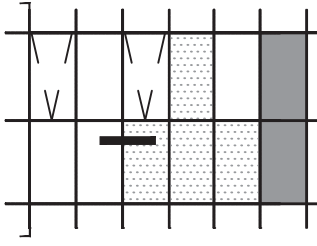


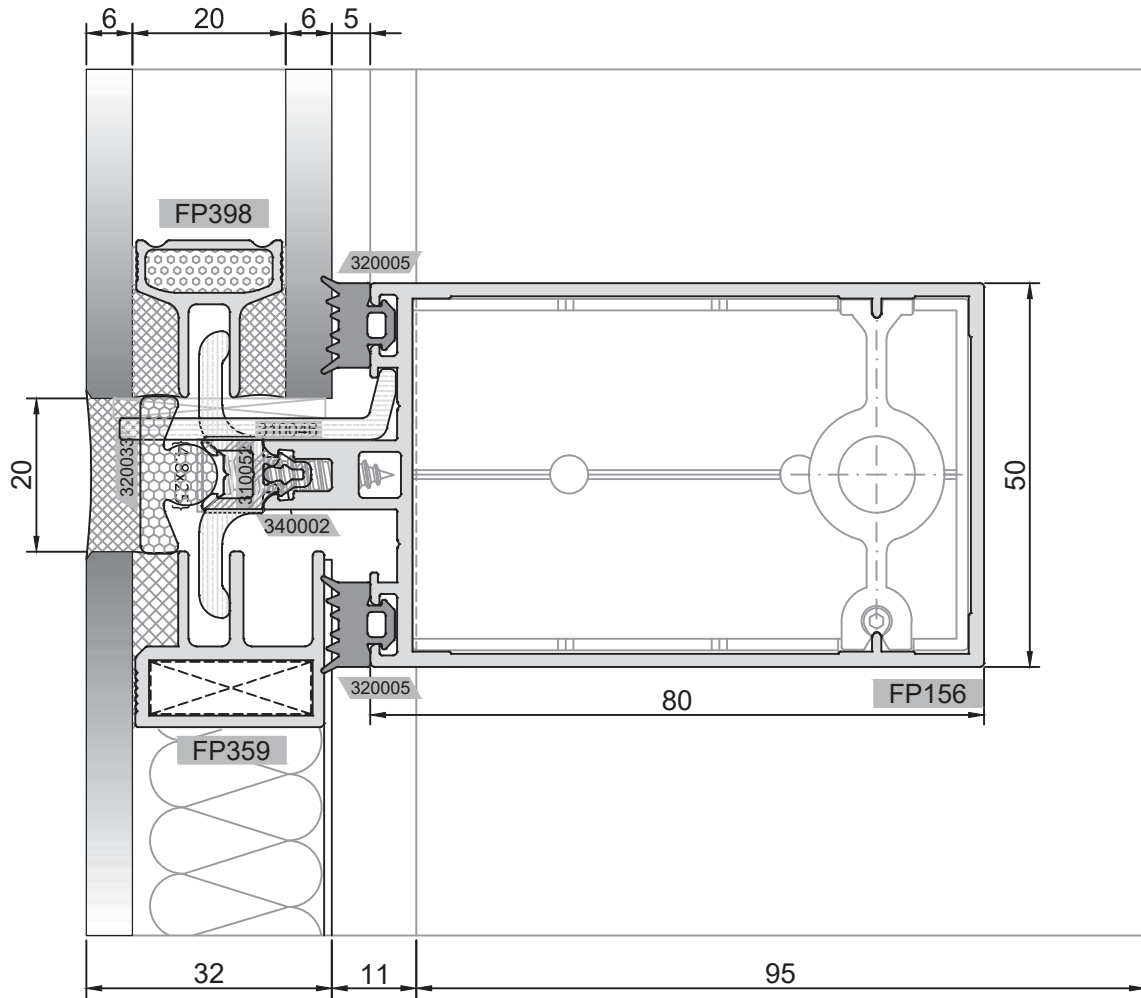
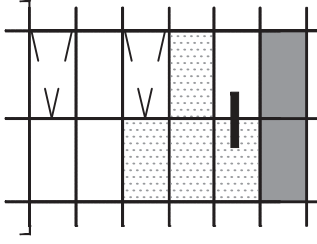


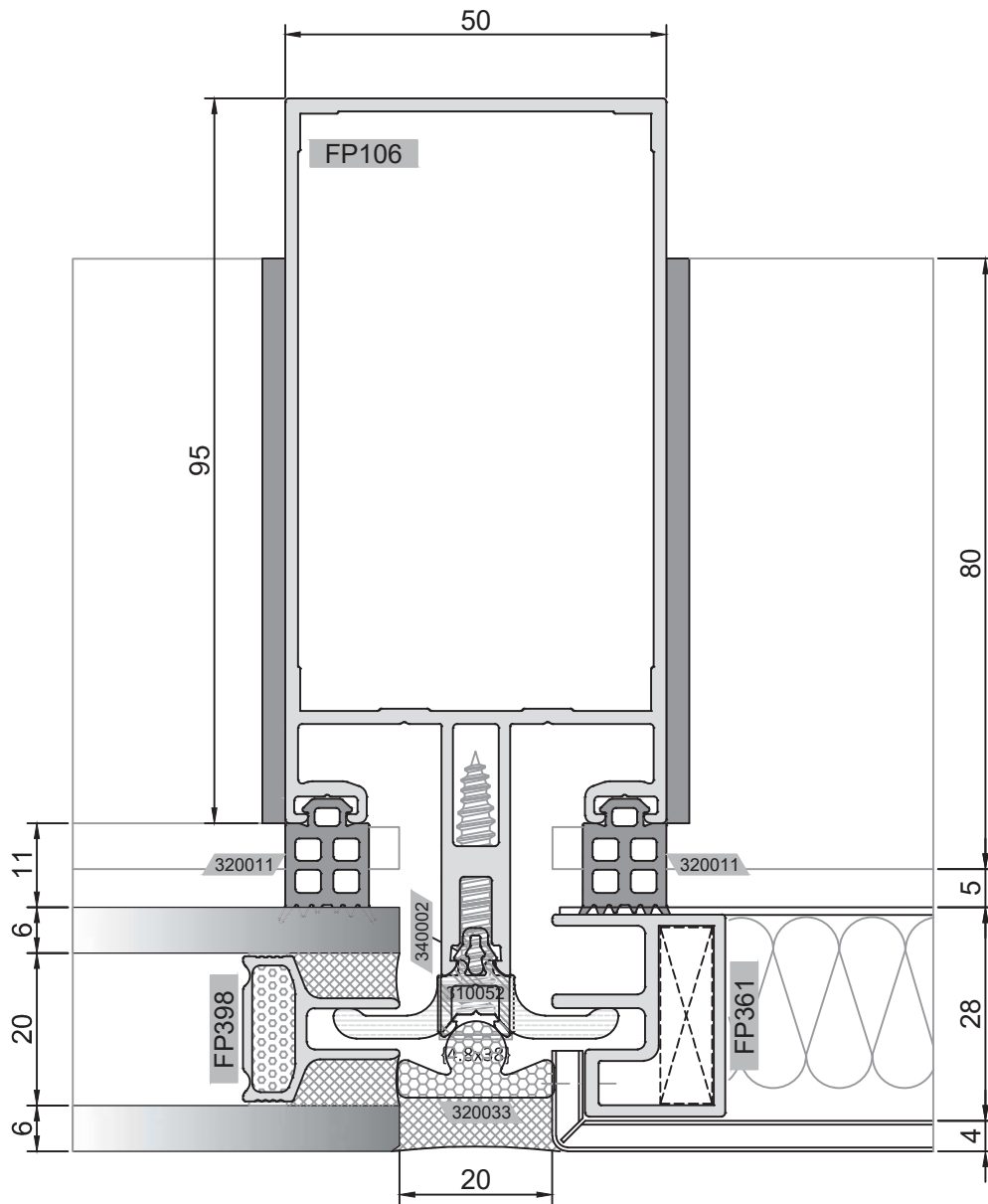
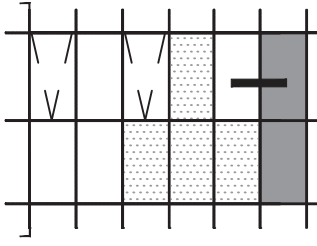
ALTERNATİF 2: YALITIMSIZ PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 2 : PARALEL OPENING UNINSULATED VENT DETAIL

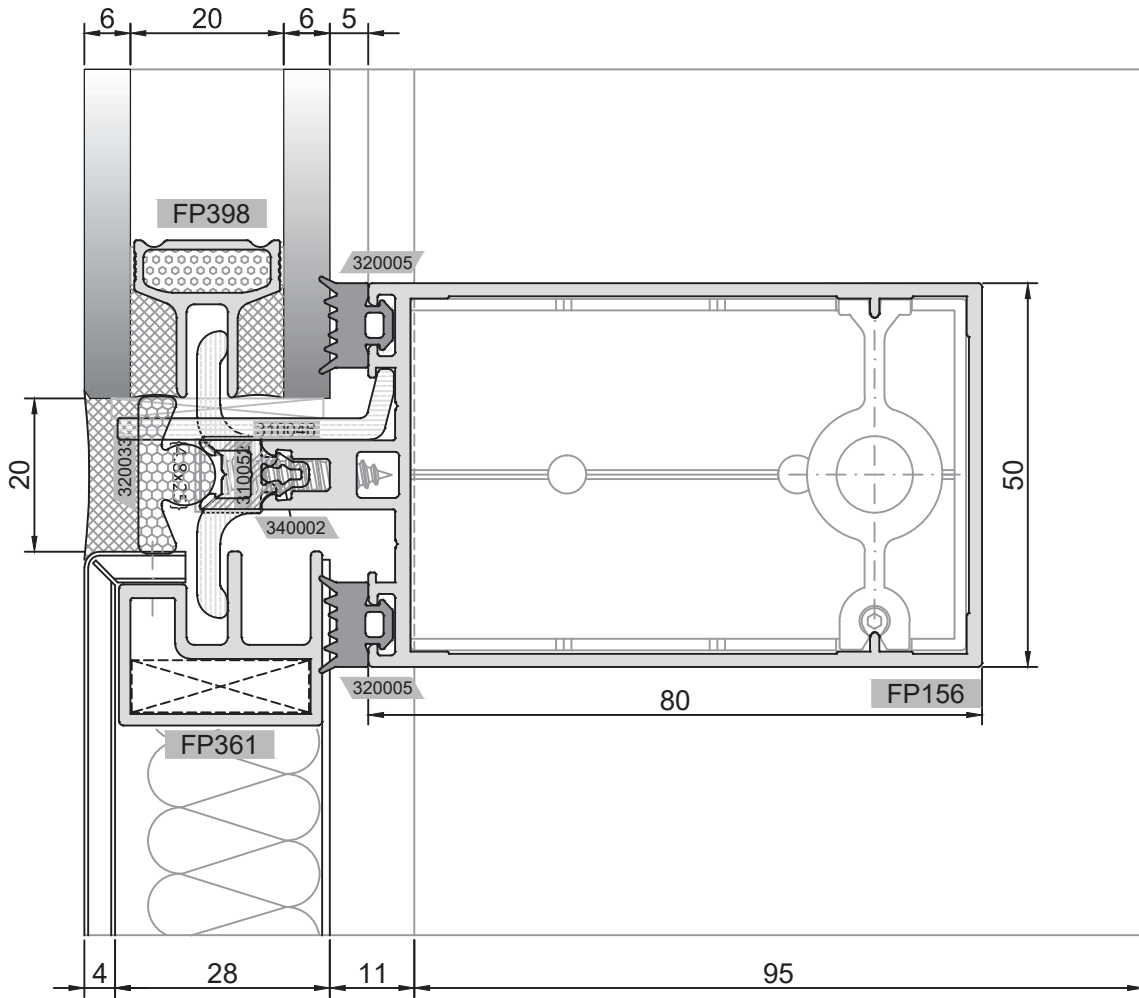
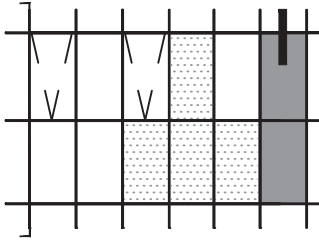
YATAY DETAYI
HORIZONTAL DETAIL

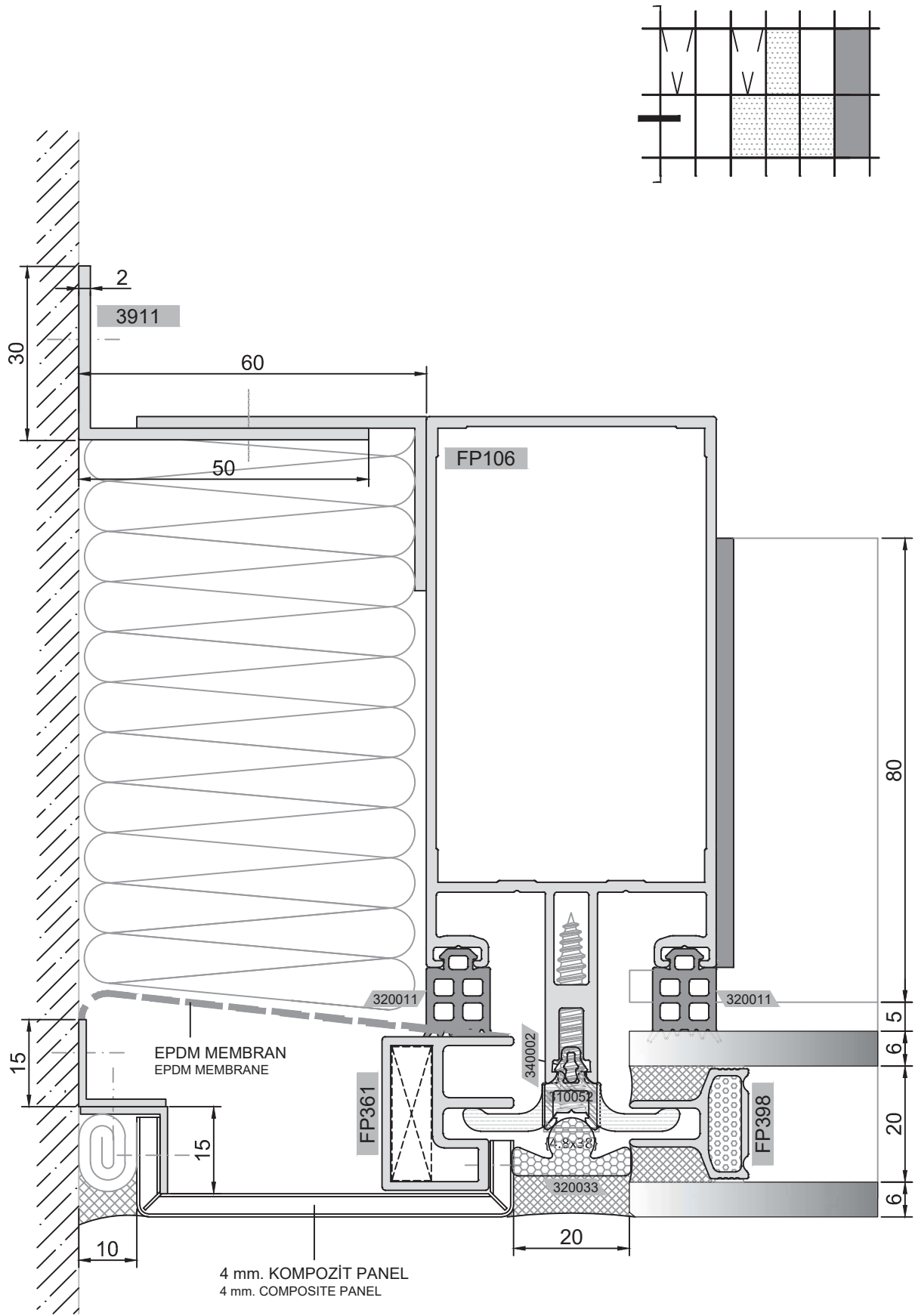


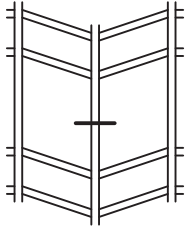




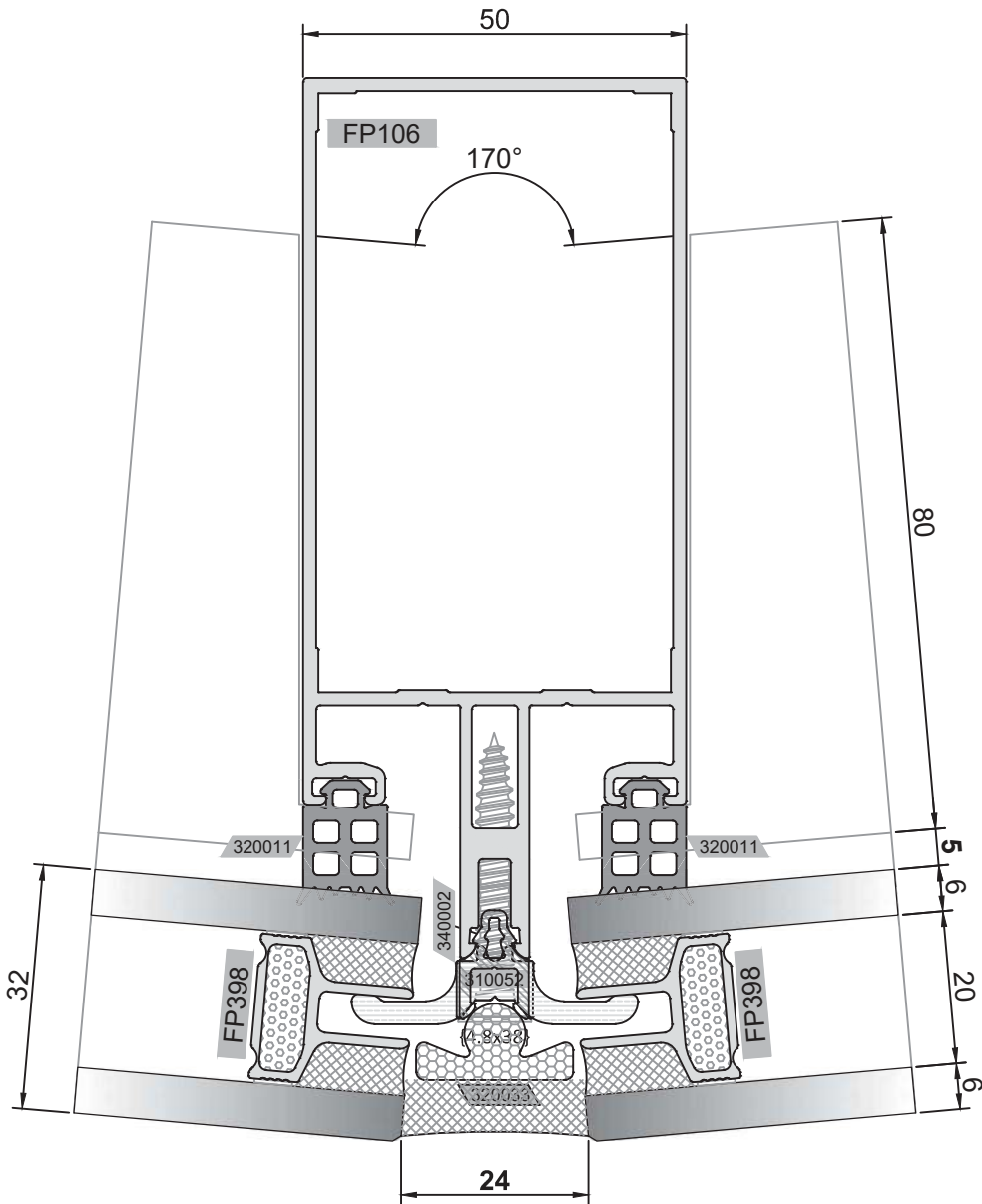


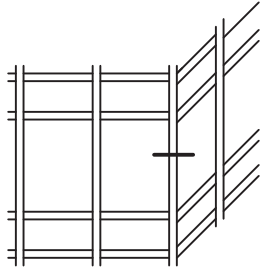




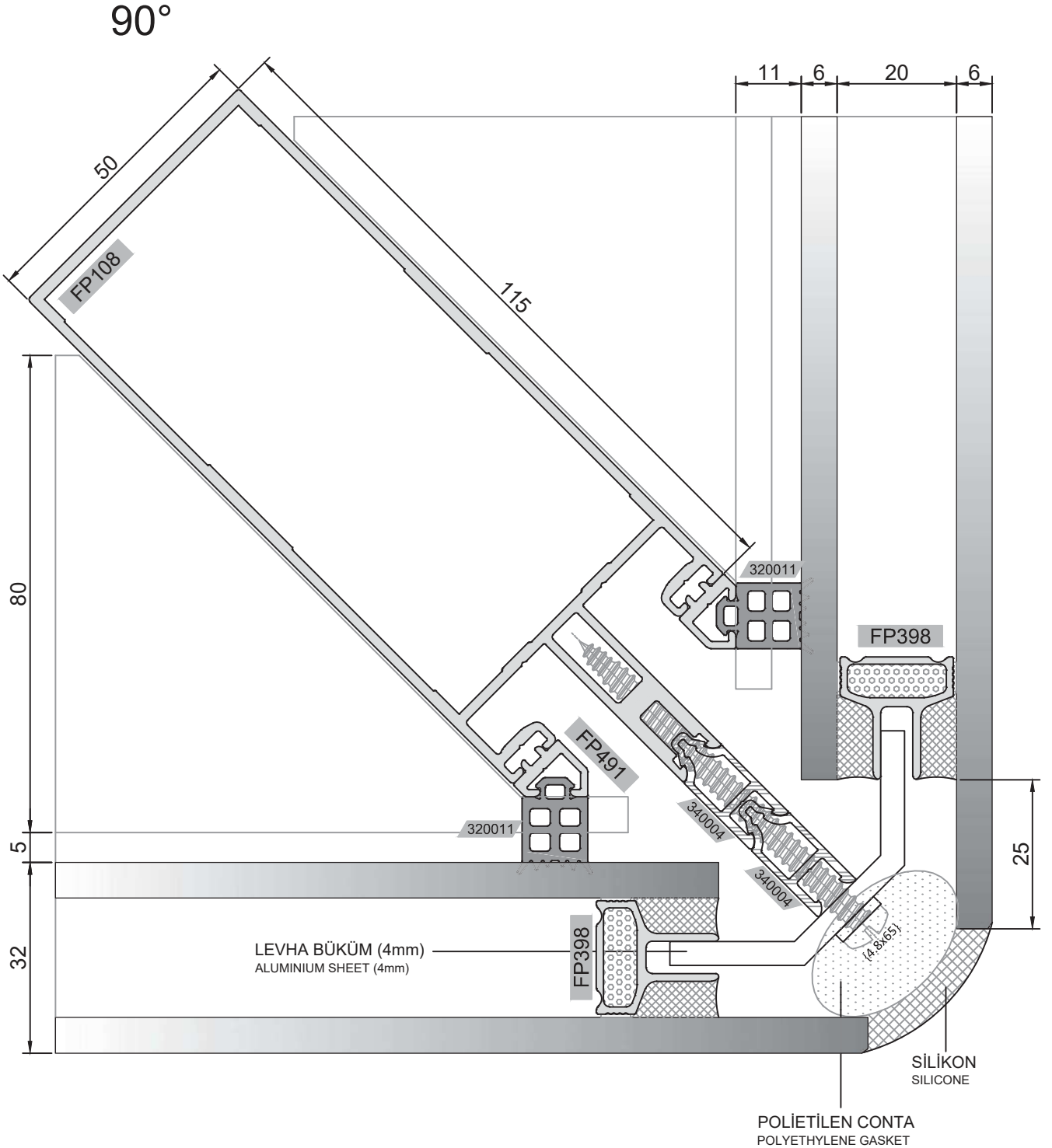


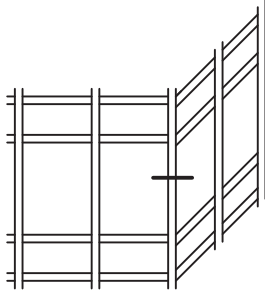
0° - 10°





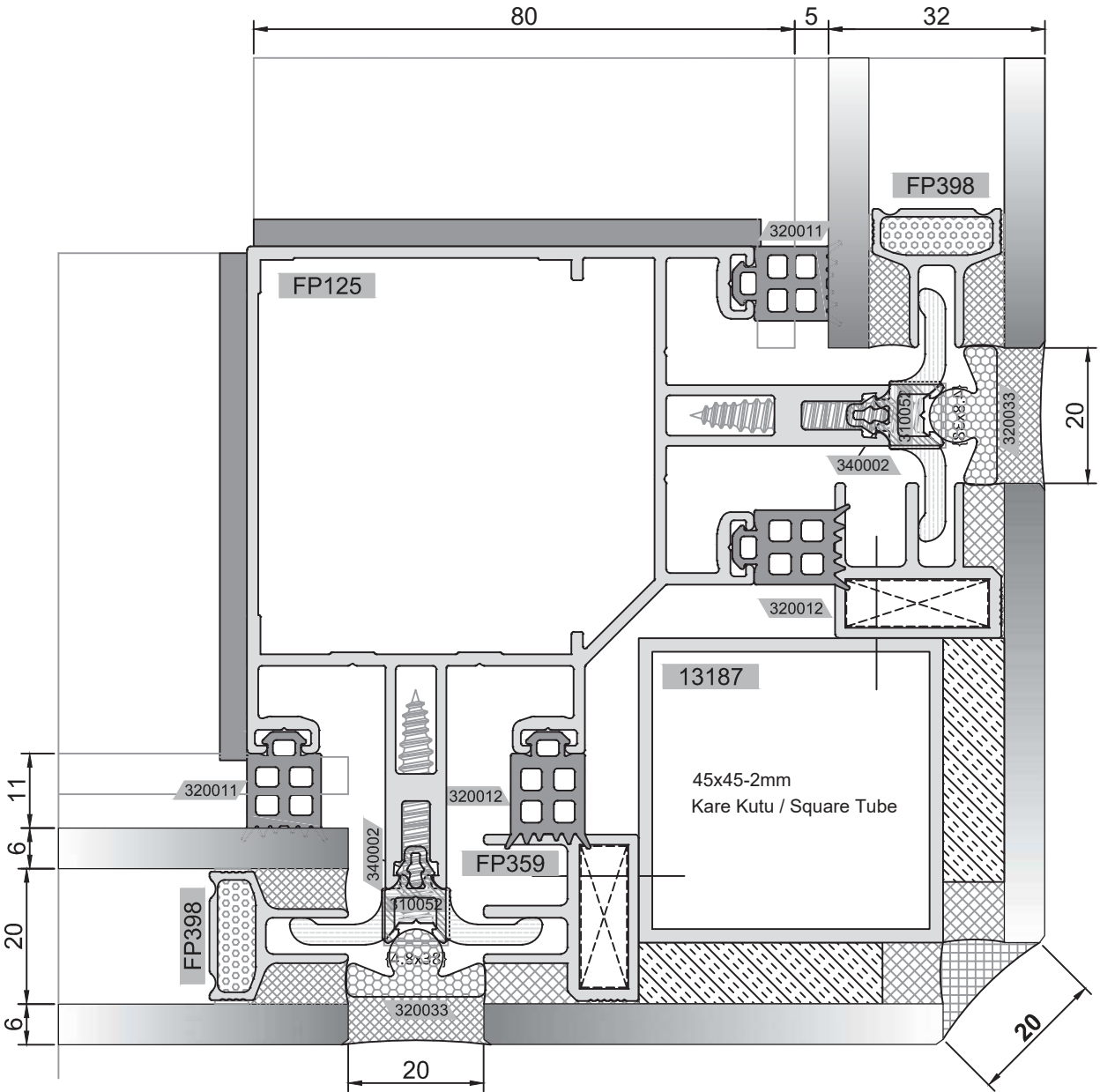
ALTERNATİF 1: TEK DİKMELİ KÖŞE DETAYI
ALTERNATIVE 1 : CORNER DETAIL WITH SINGLE MULLION

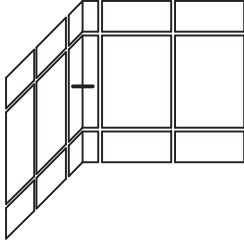
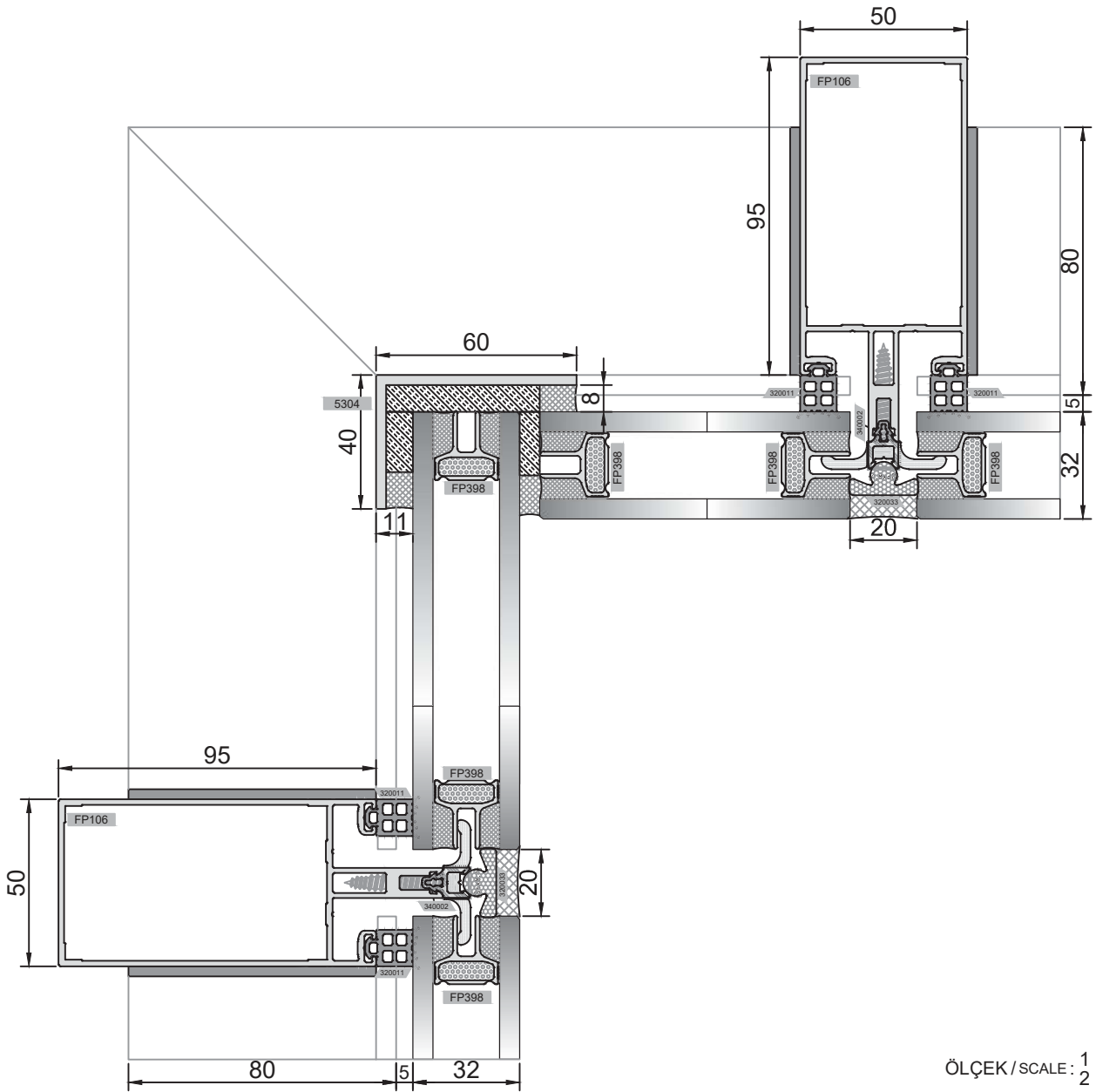




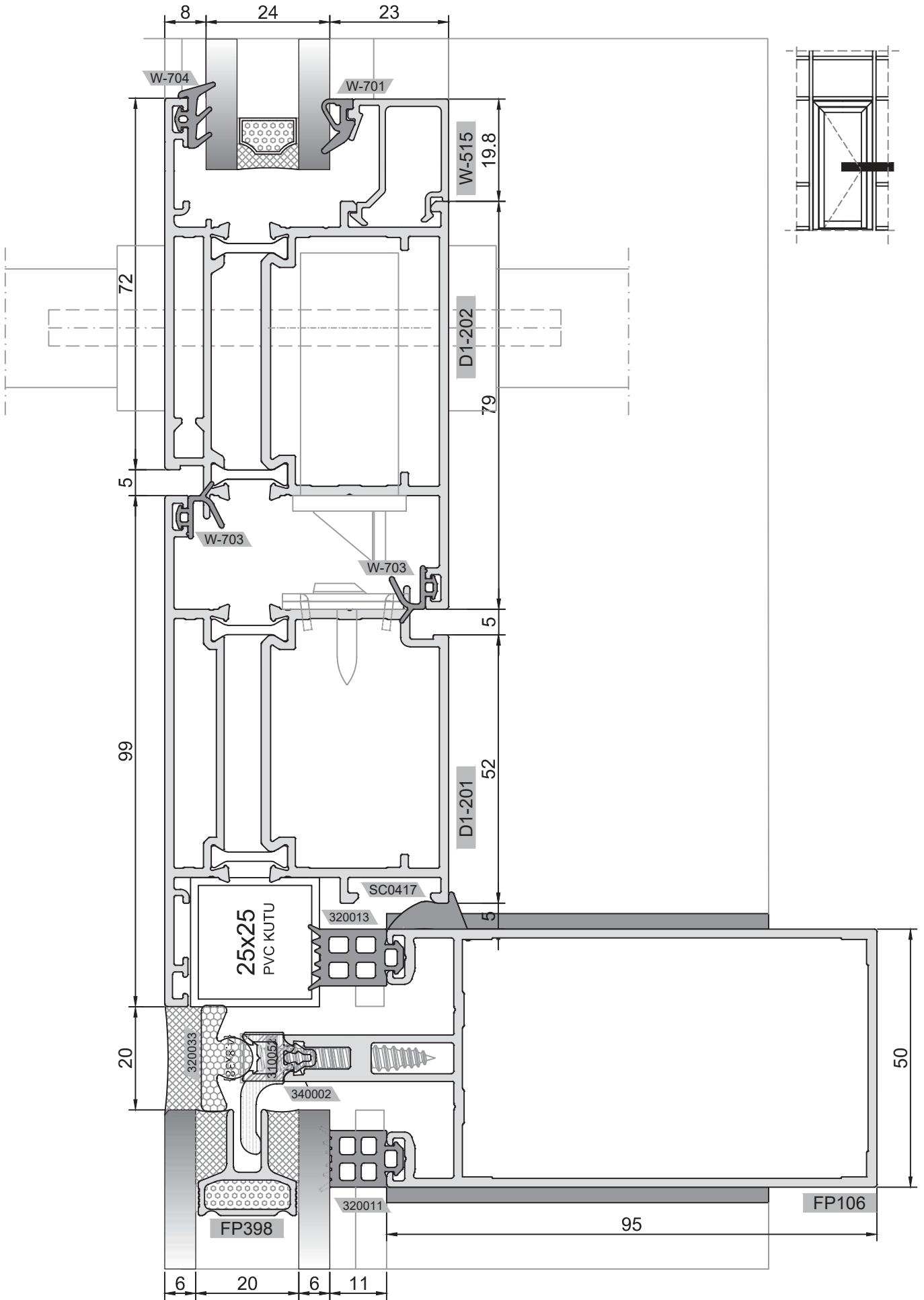
90°

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

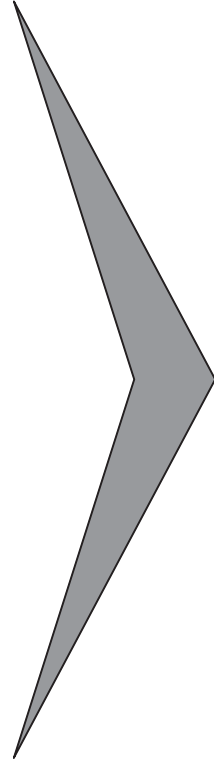


90° İÇ AÇILI CAM CEPHE DÜŞEY KESİT DETAYI
FOUR SIDE WITH 90° INTERNAL ANGLE VERTICAL DETAIL

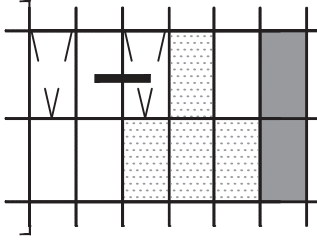
ÖLÇEK / SCALE: 1/2



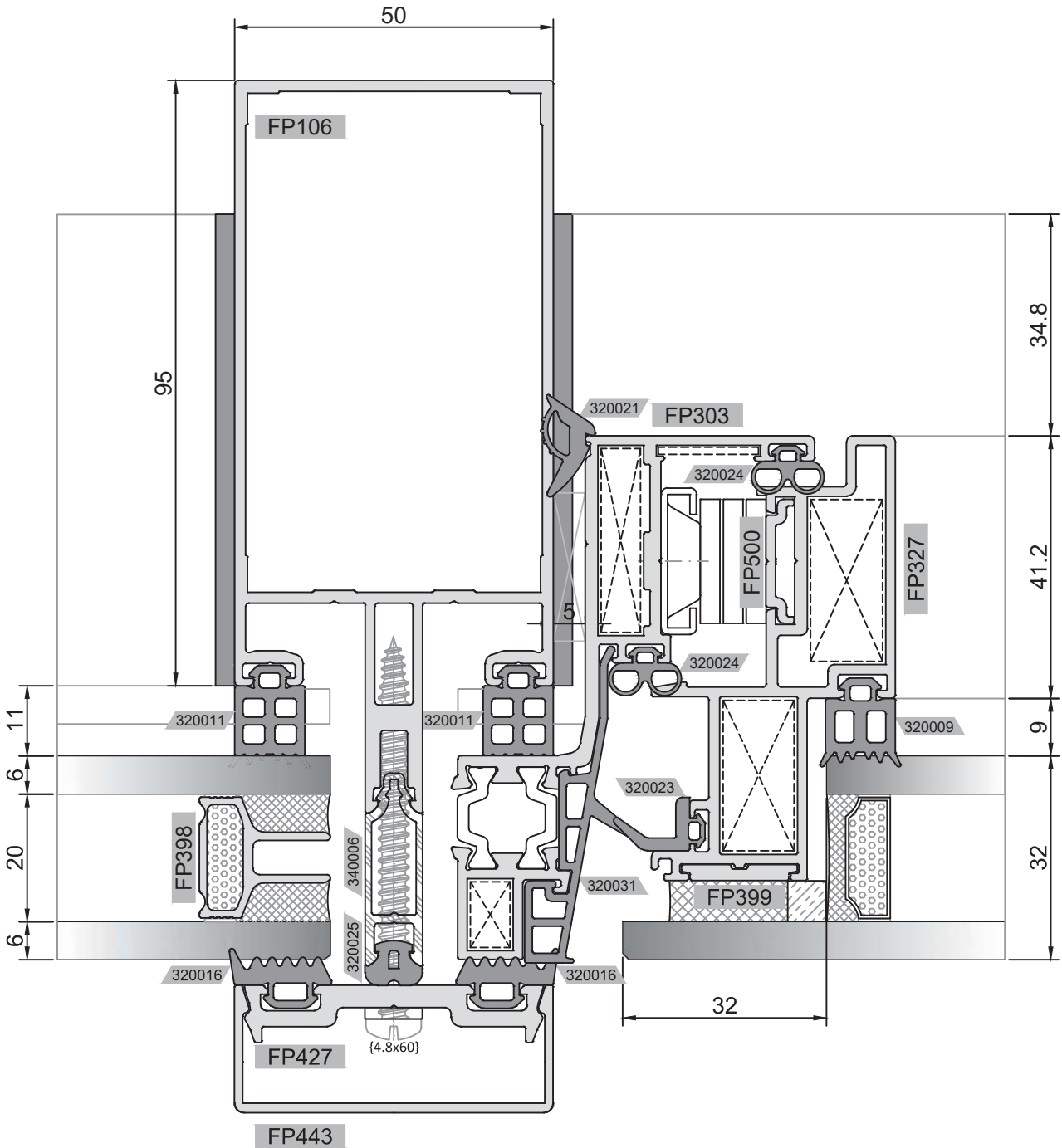
YARI-KAPAKLI CEPHE SEMI-CAPPED CURTAIN WALL

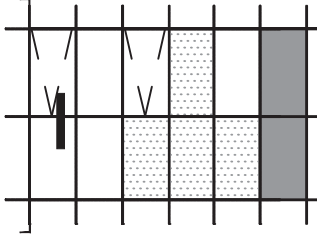


- * 20mm STANDART
ALÜMİNYUM ISICAM
ÇİTASI
20mm STANDARD
ALUMINIUM SPACER

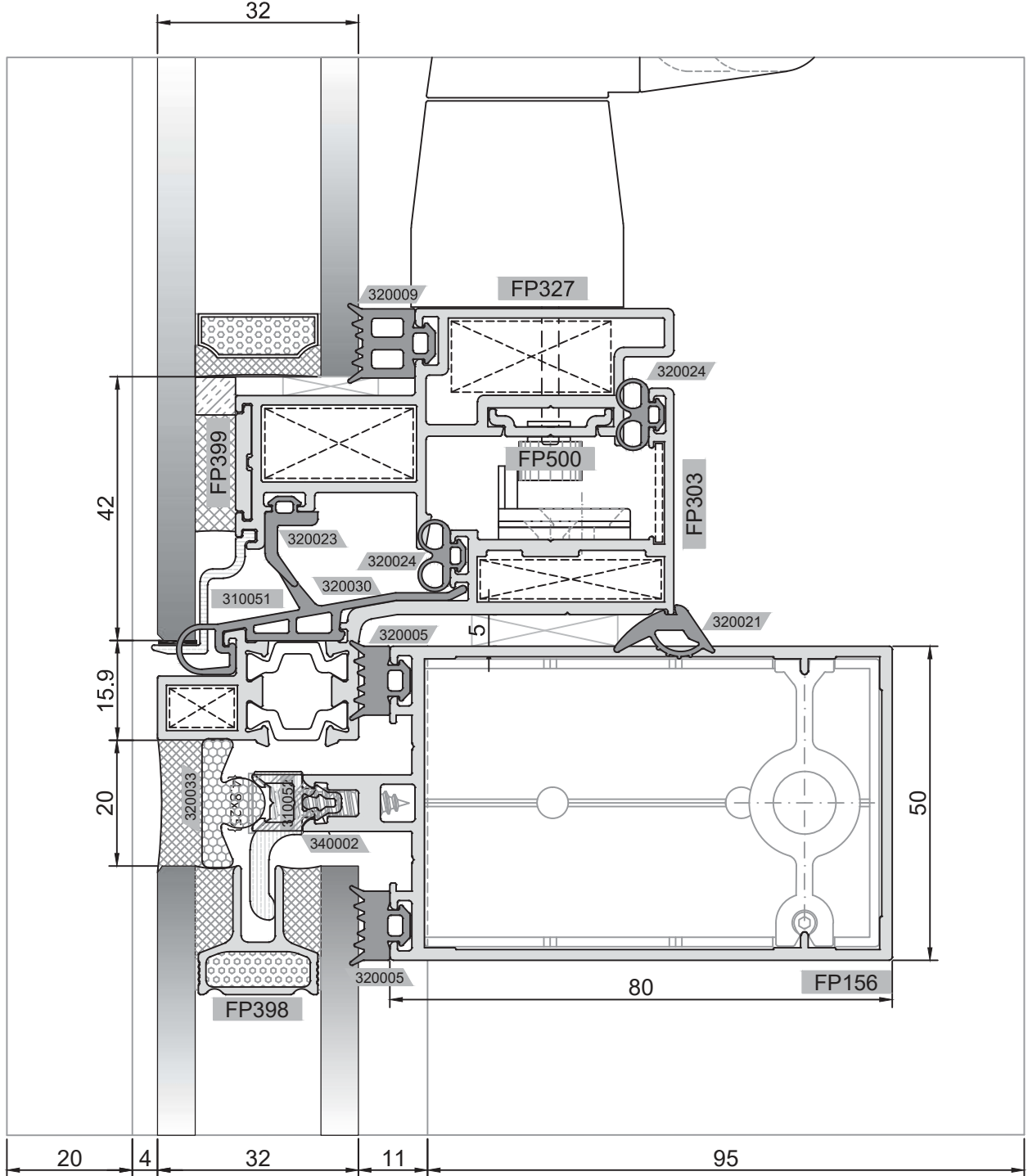


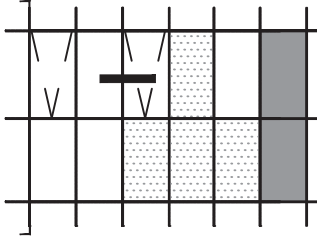
DÜŞEY DETAYI
VERTICAL DETAIL



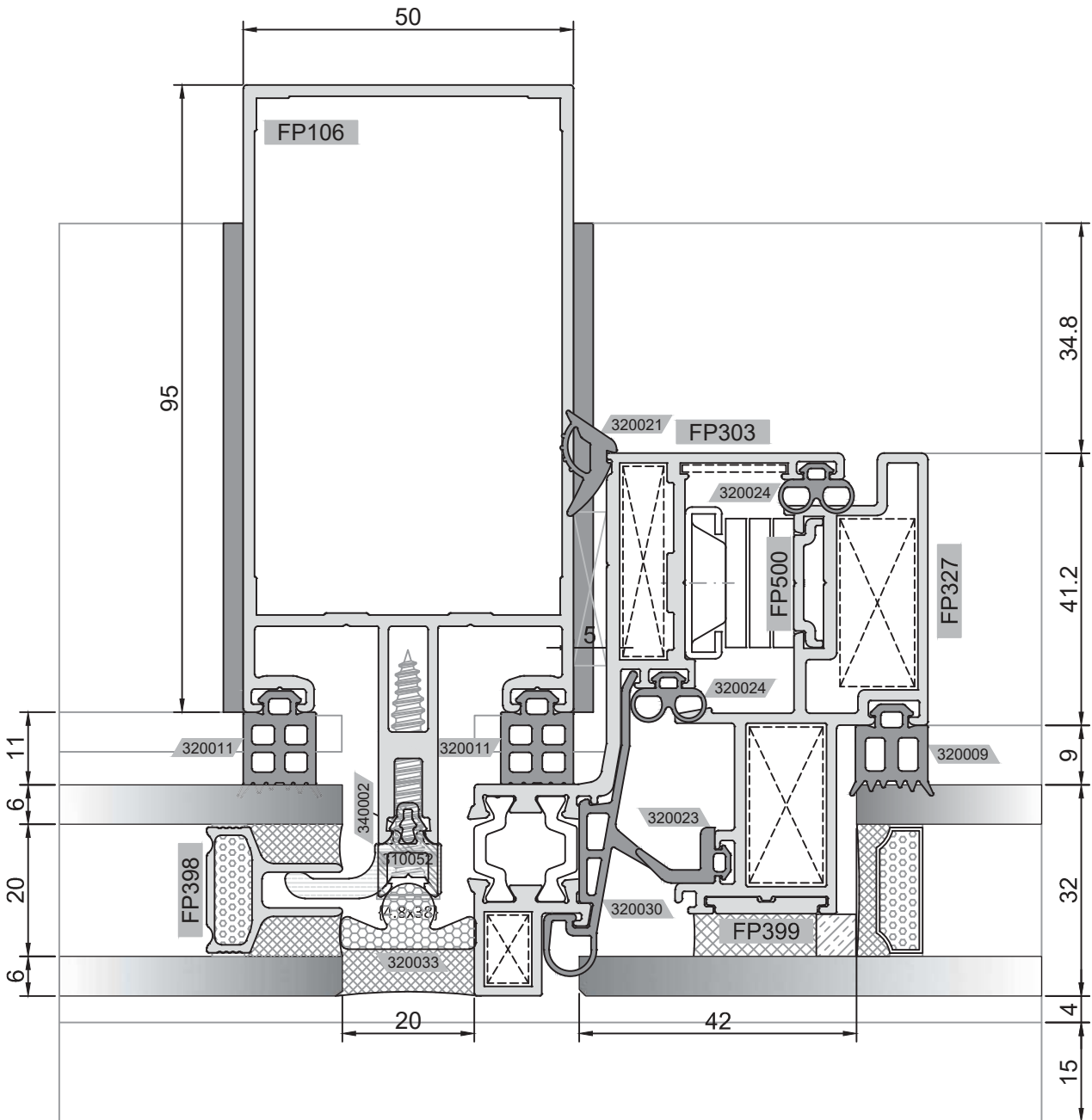


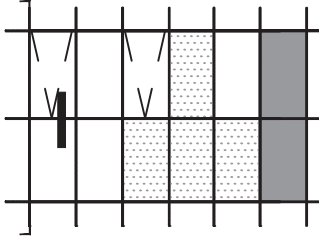
YATAY DETAYI
HORIZONTAL DETAIL



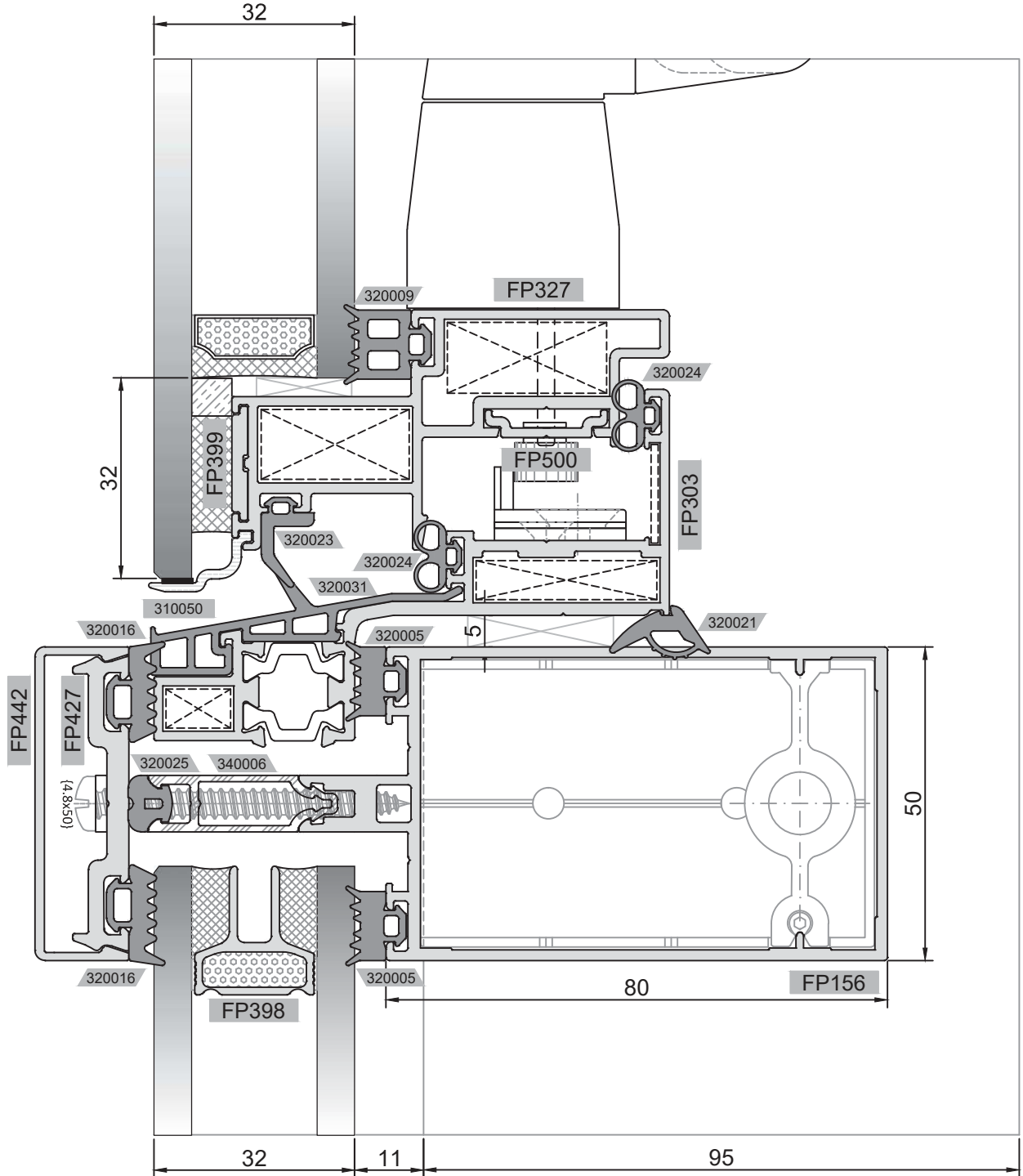


DÜŞEY DETAYI
VERTICAL DETAIL

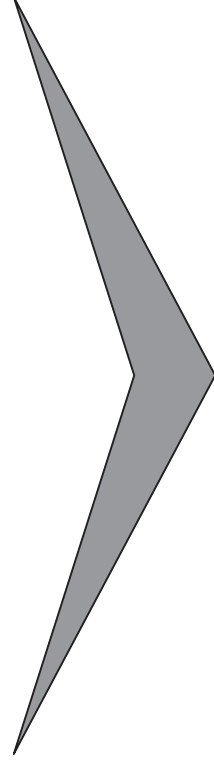




YATAY DETAYI
HORIZONTAL DETAIL

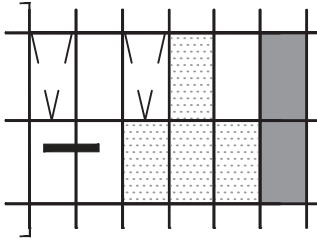


ENTEĞRE CEPHE INTEGRATED CURTAIN WALL

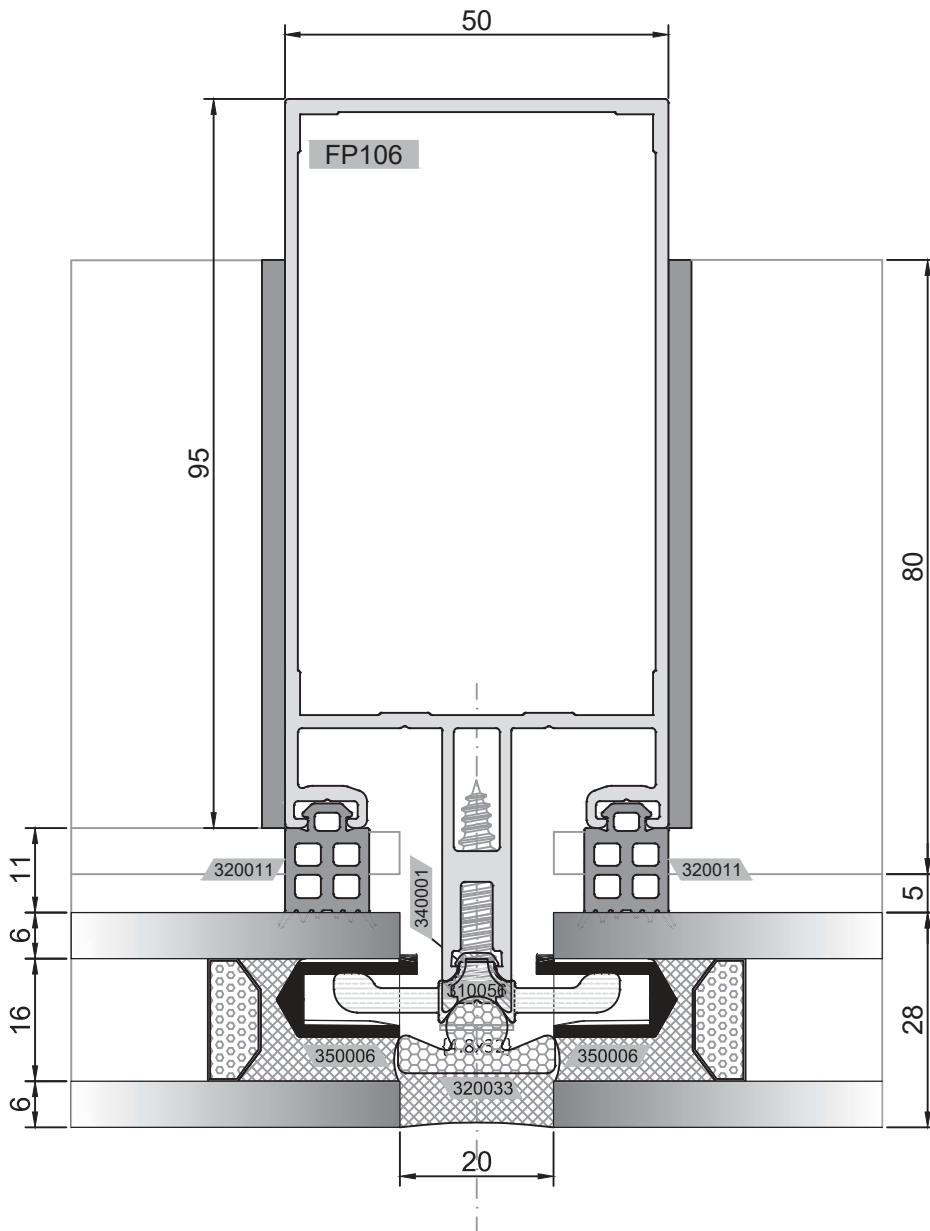


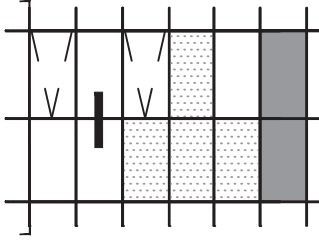
* 16mm ÖZEL SICAK
KENAR ISICAM ÇITASI
16mm SPECIAL WARM
EDGE SPACER

► 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.

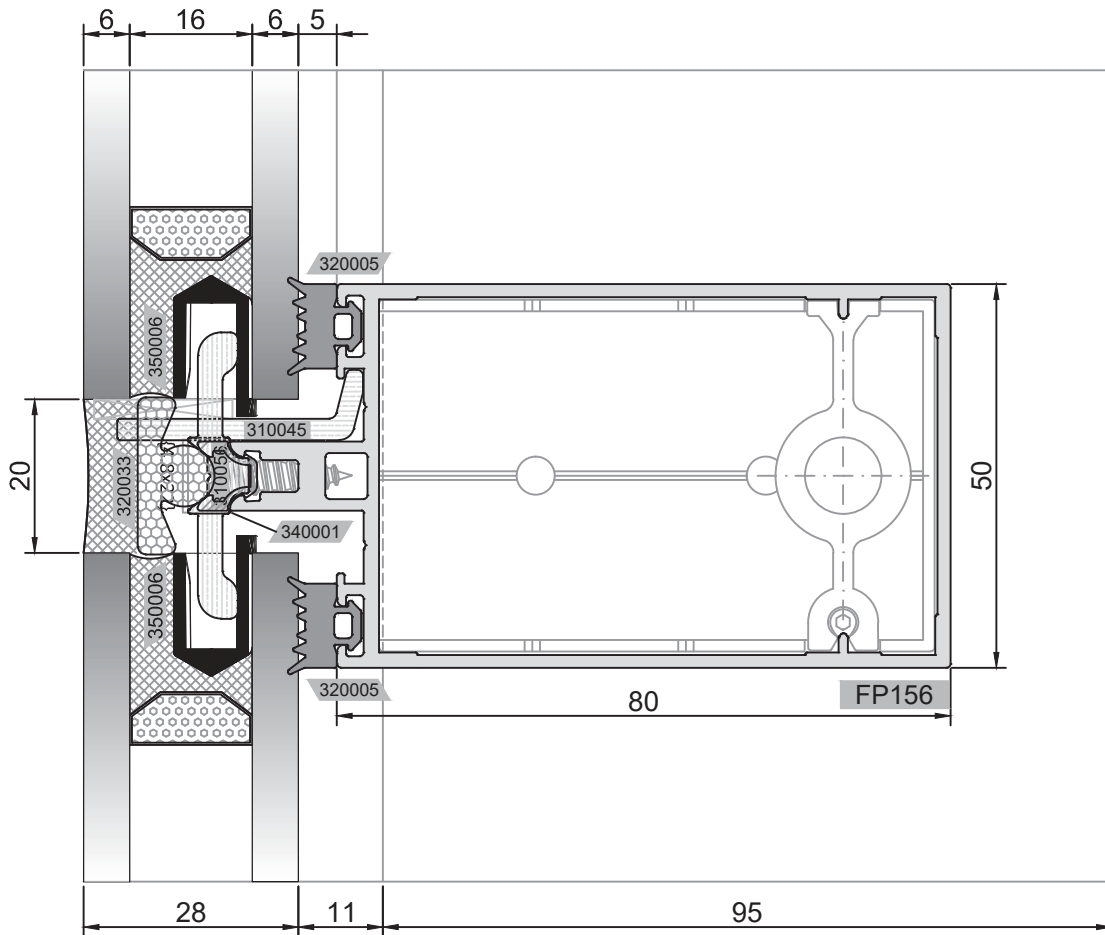


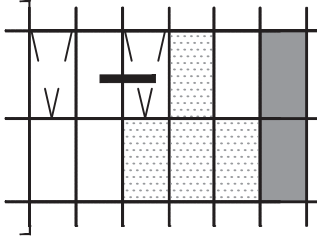
DÜŞEY DETAYI
VERTICAL DETAIL





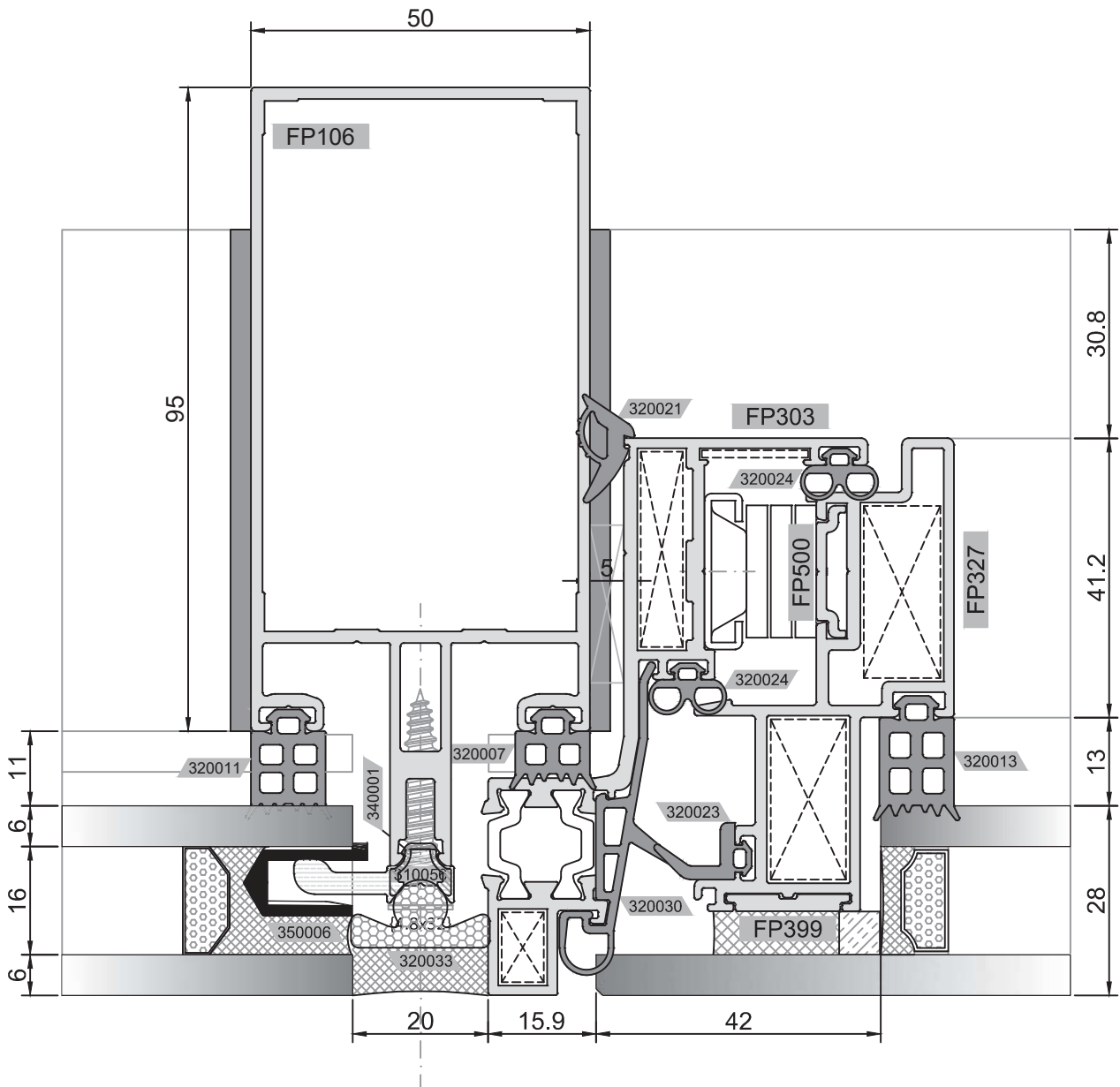
YATAY DETAYI
HORIZONTAL DETAIL

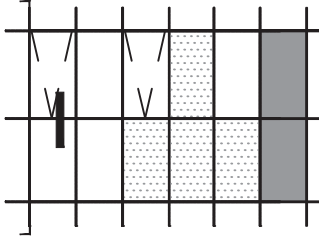




ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

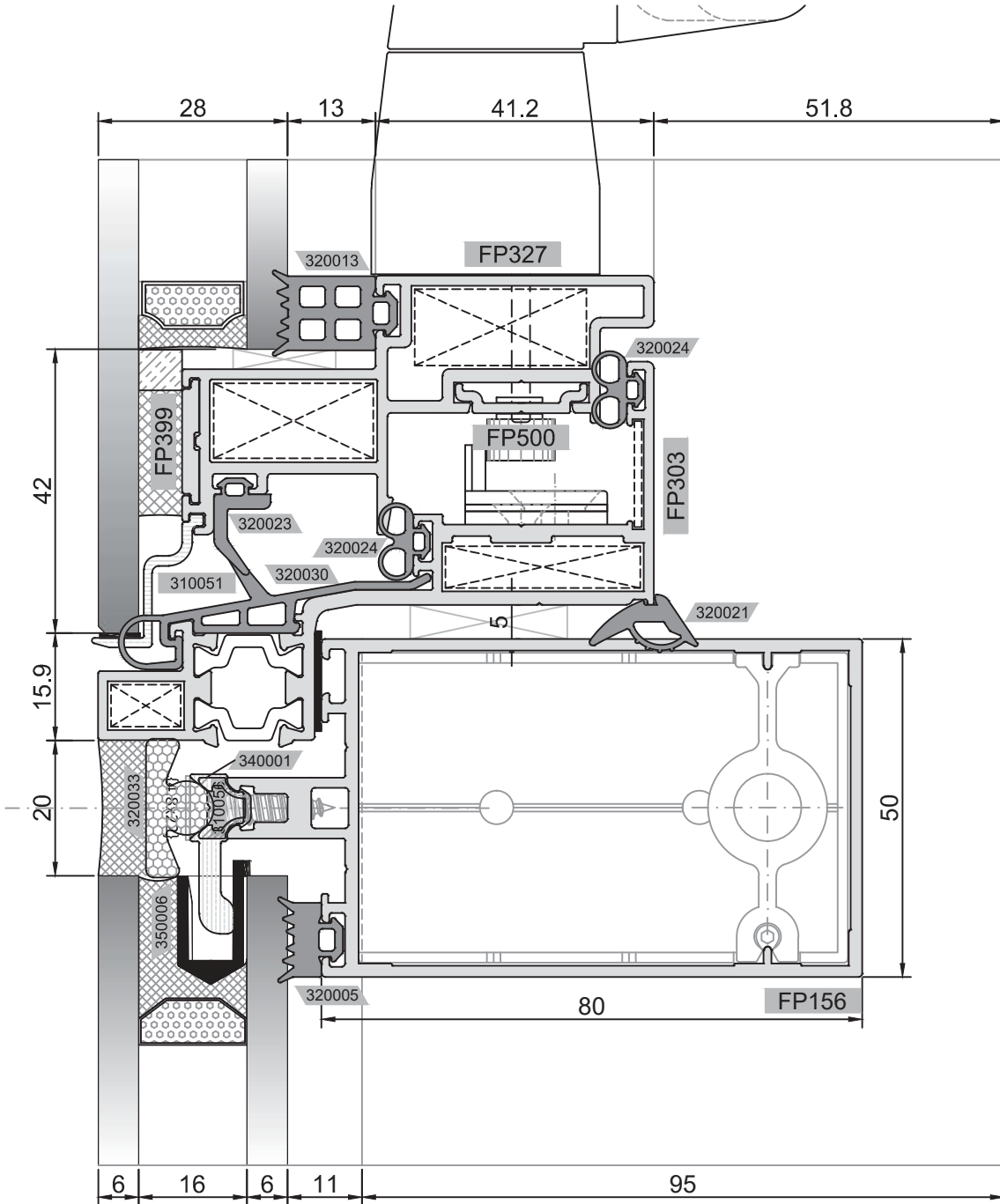
DÜŞEY DETAYI
VERTICAL DETAIL

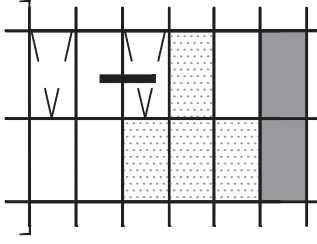




ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

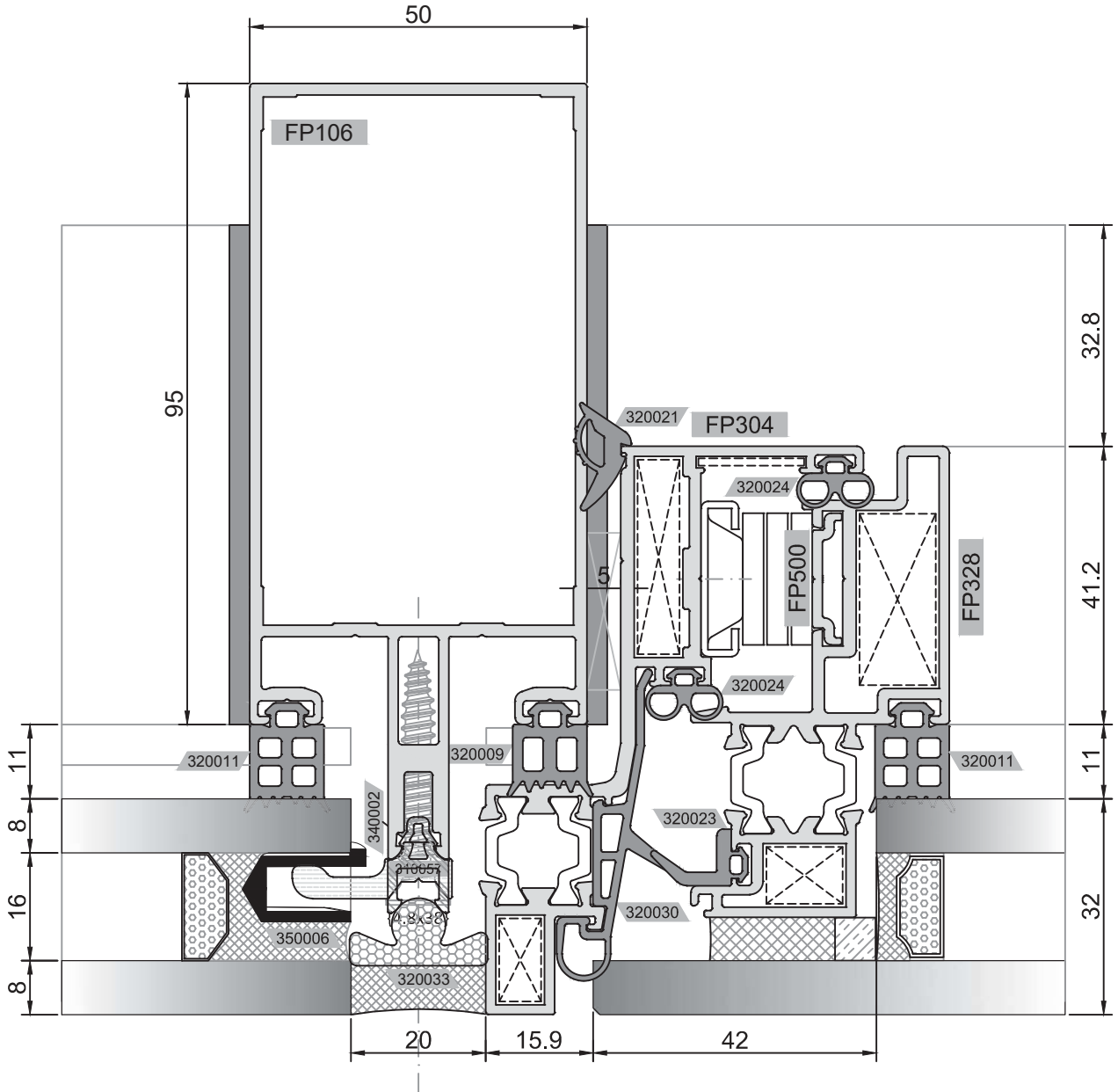
YATAY DETAYI
HORIZONTAL DETAIL

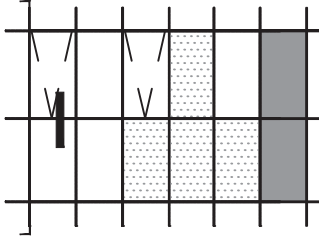




DÜŞEY DETAYI
VERTICAL DETAIL

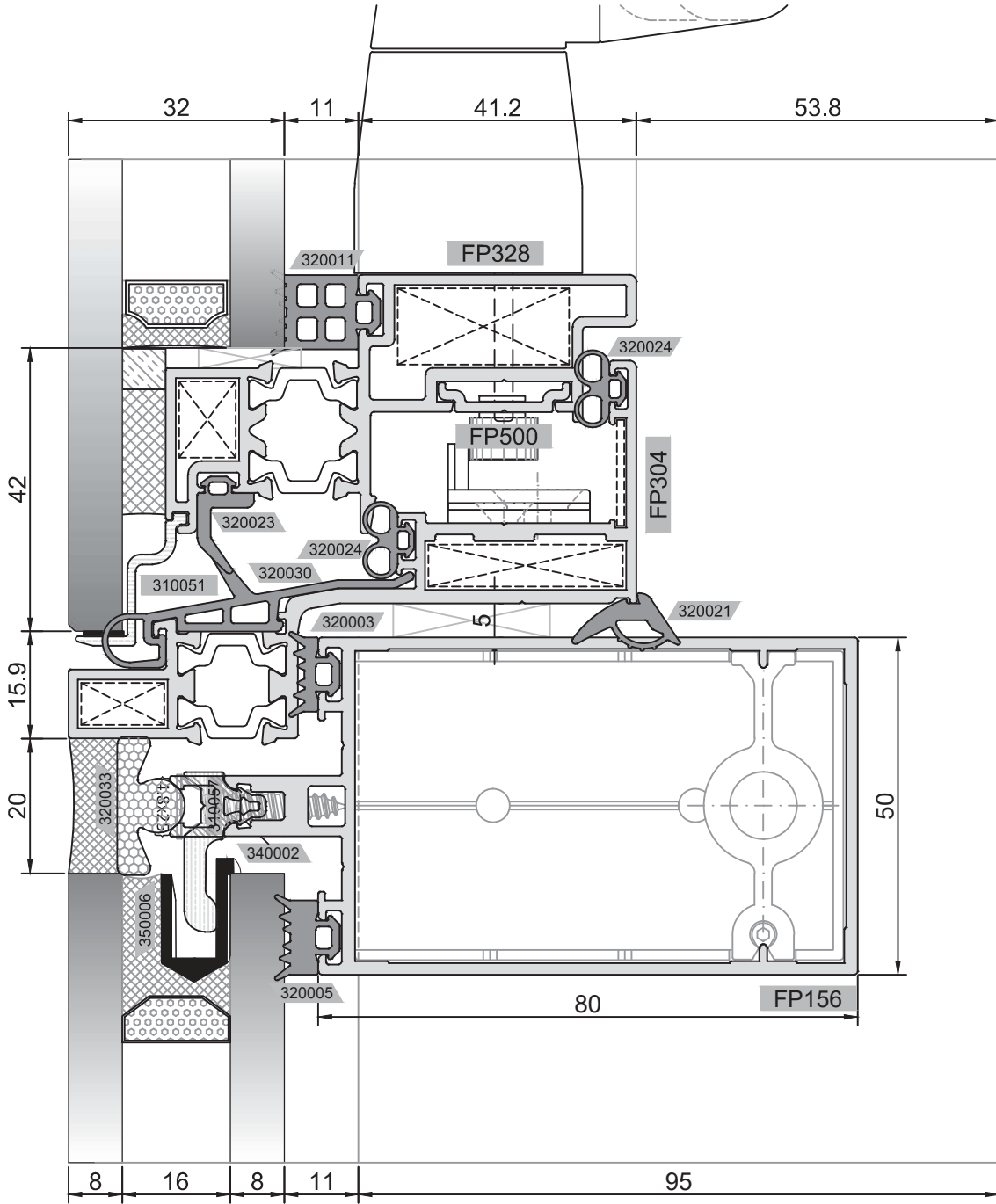
ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

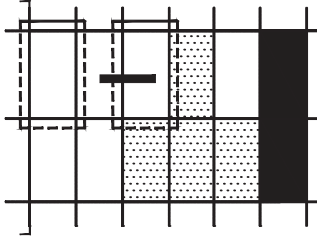




ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

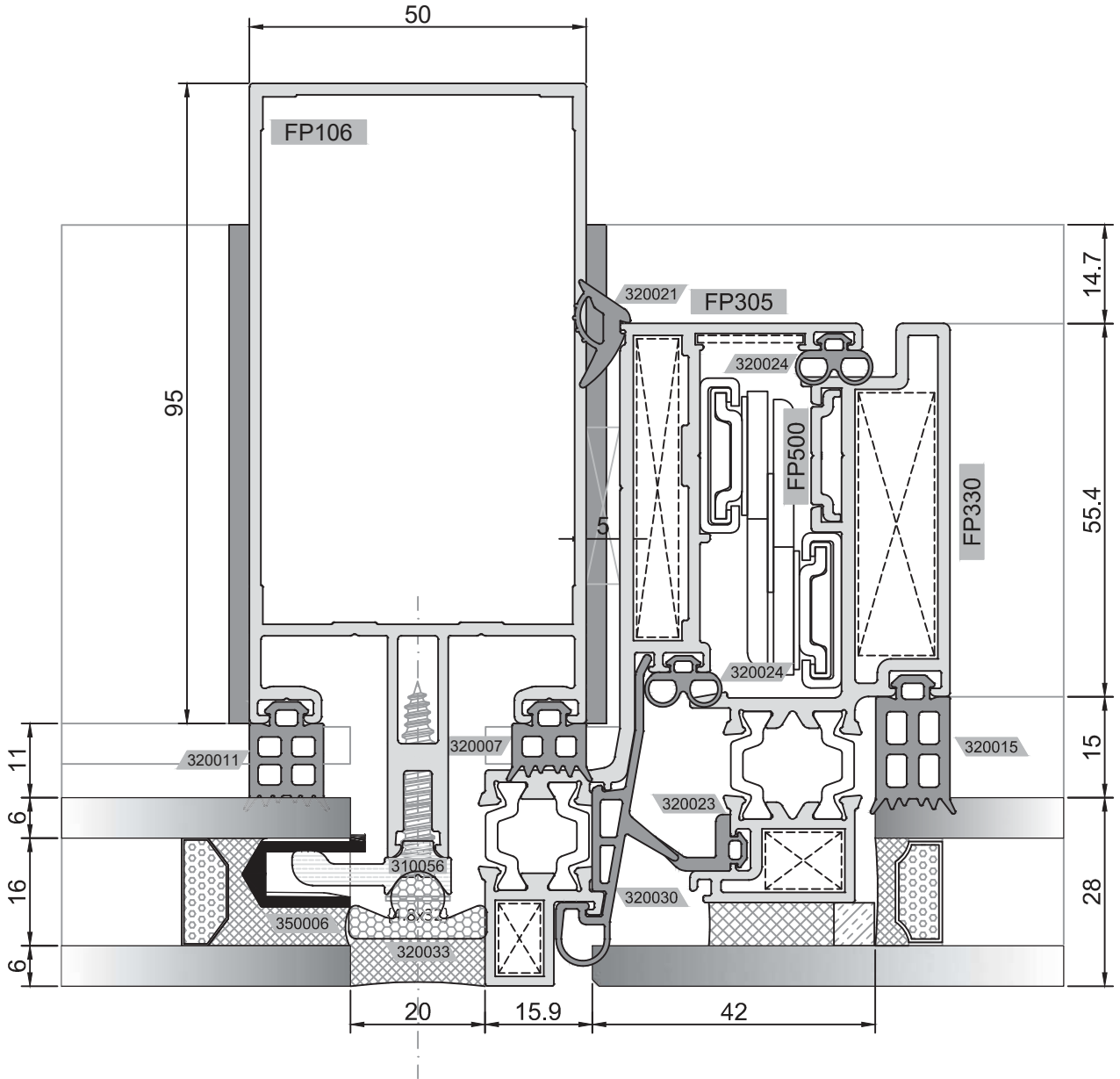
YATAY DETAYI
HORIZONTAL DETAIL

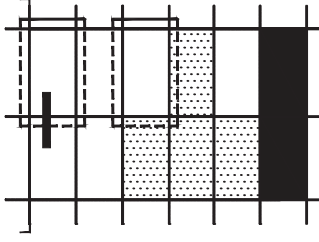




ALTERNATİF 1: YALITIMLI PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 1 : PARALEL OPENING INSULATED VENT DETAIL

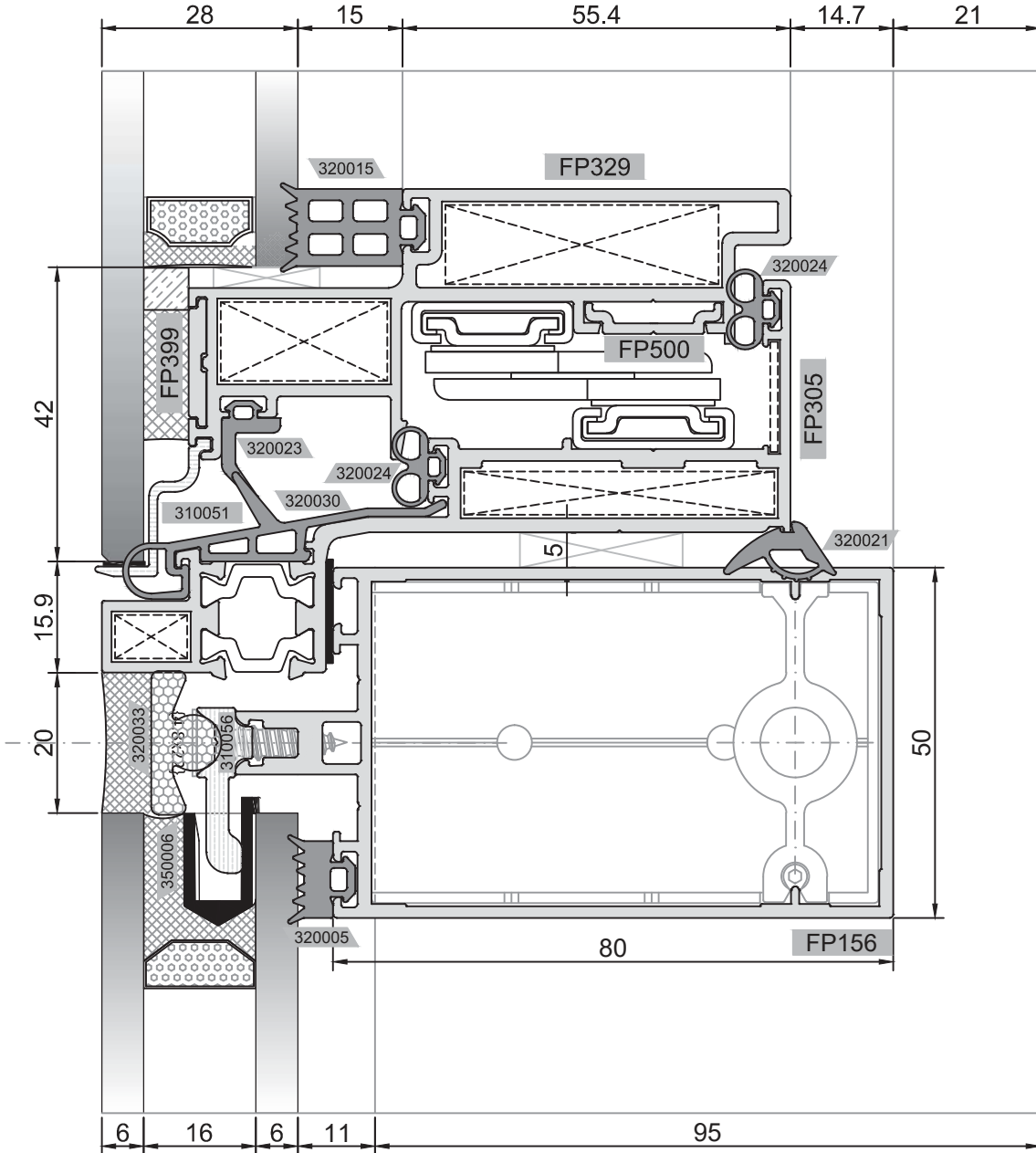
DÜŞEY DETAYI
VERTICAL DETAIL

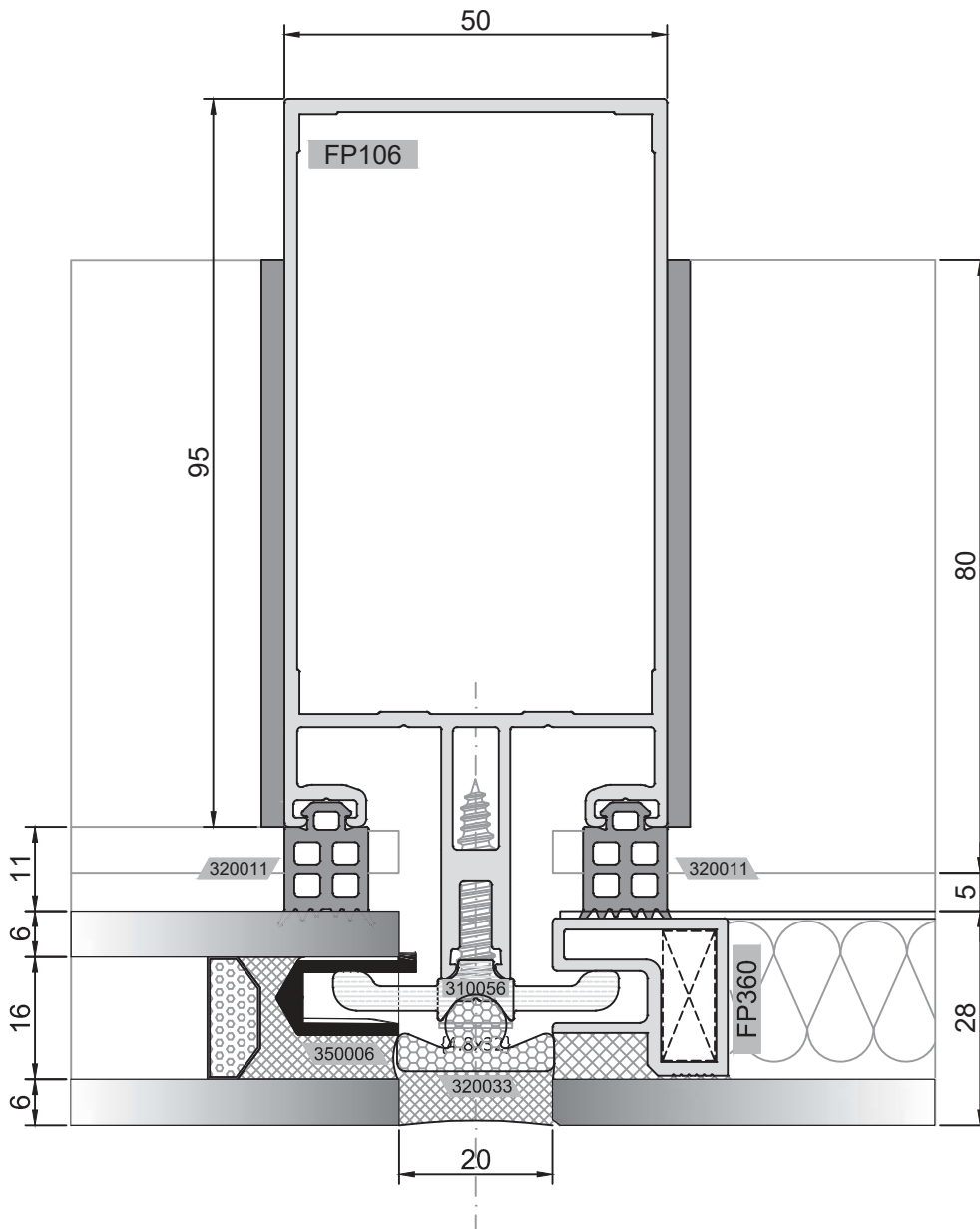
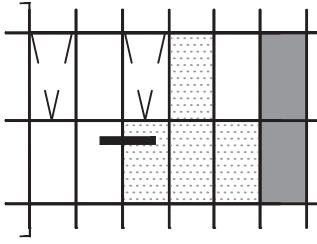


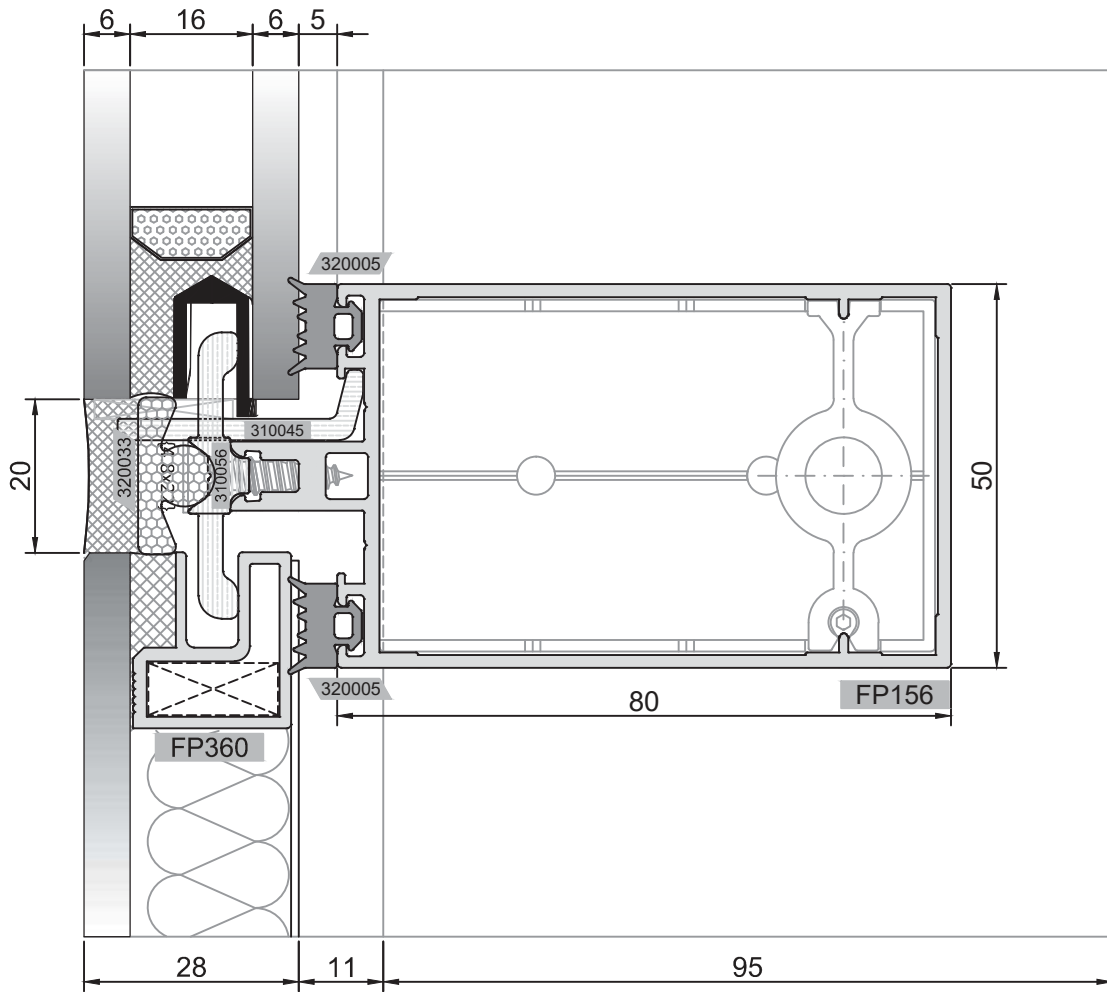
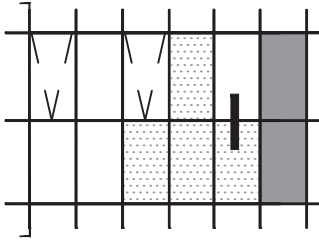


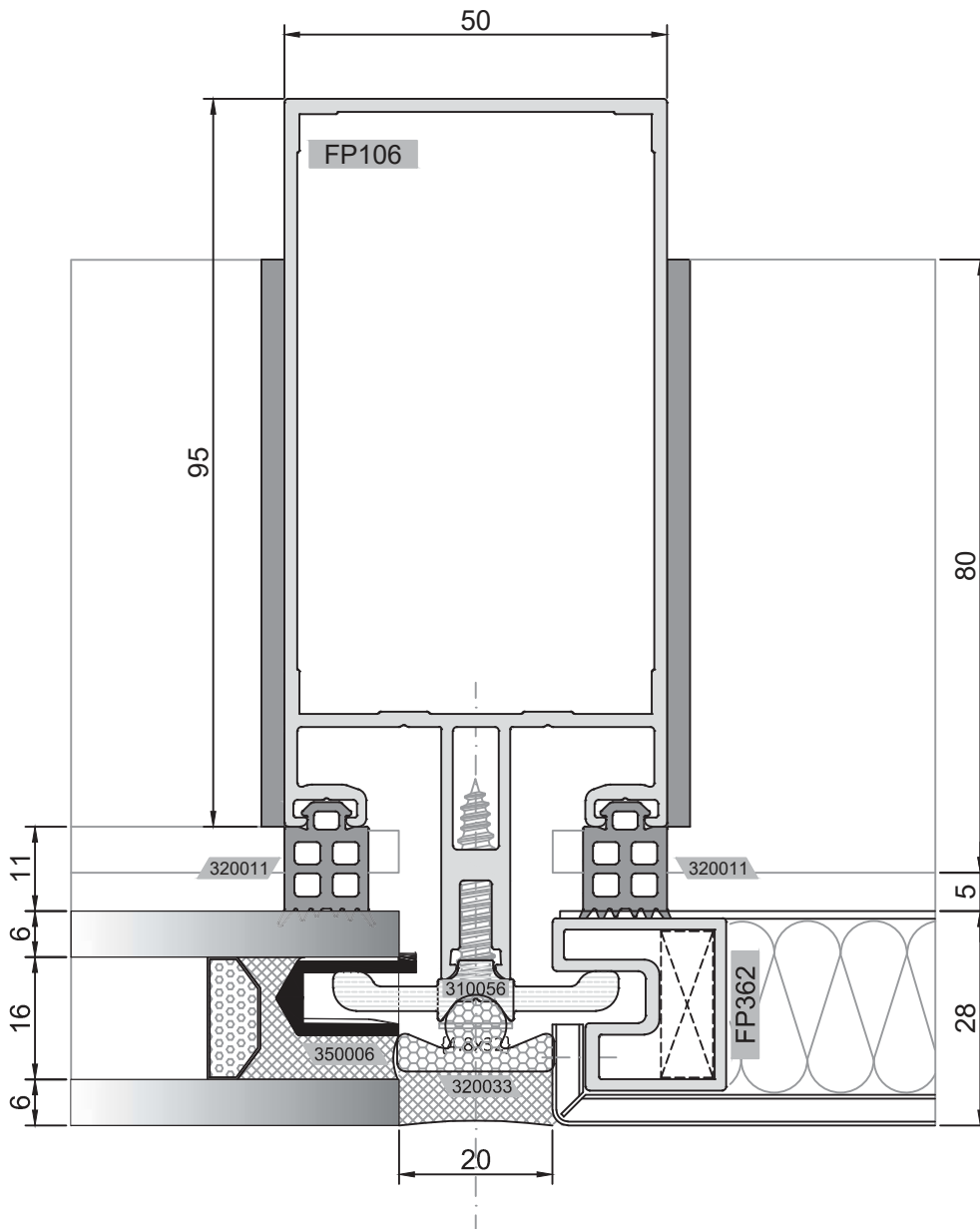
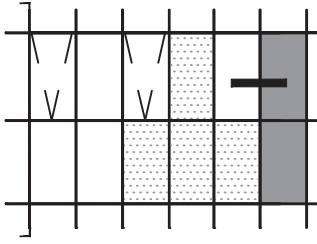
ALTERNATİF 2: YALITIMSIZ PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 2 : PARALEL OPENING UNINSULATED VENT DETAIL

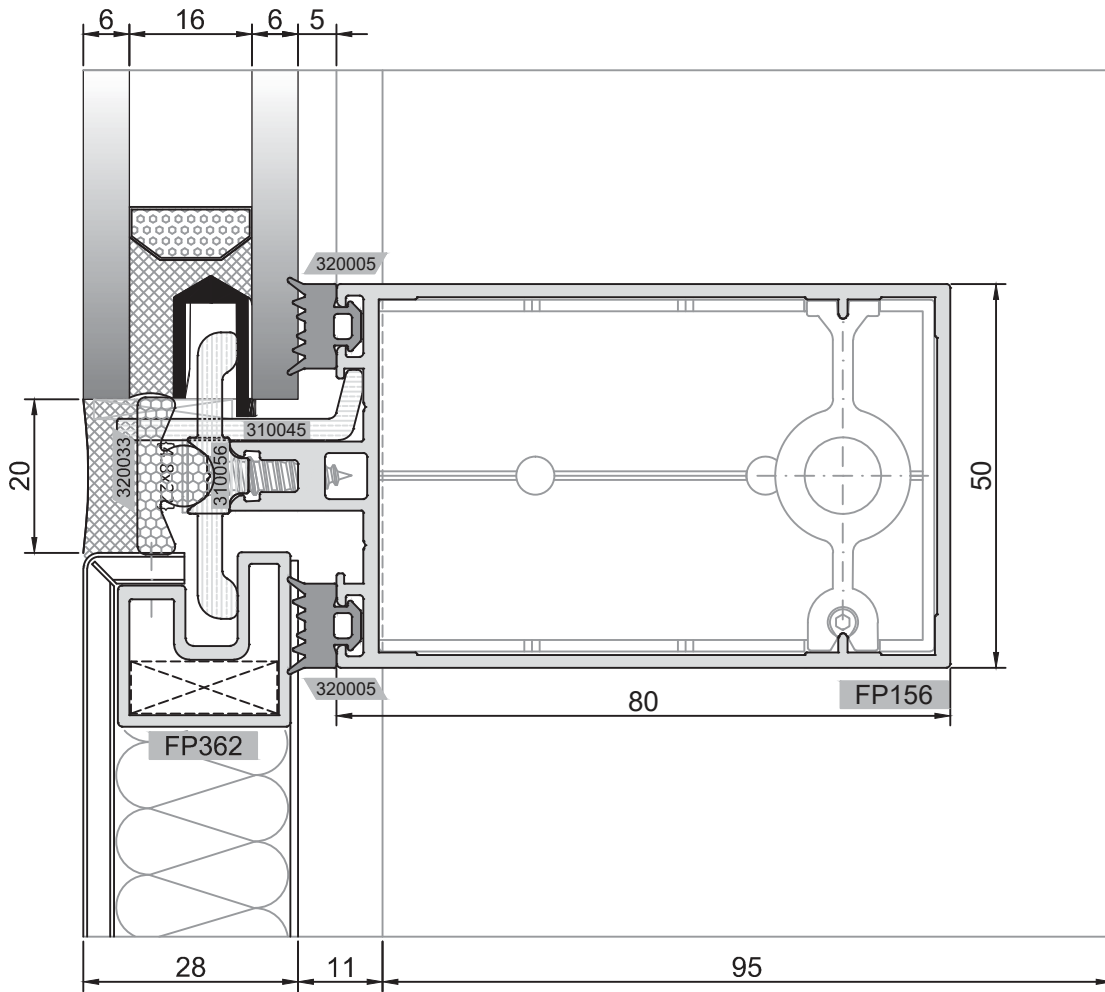
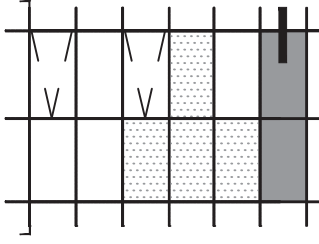
YATAY DETAYI
HORIZONTAL DETAIL

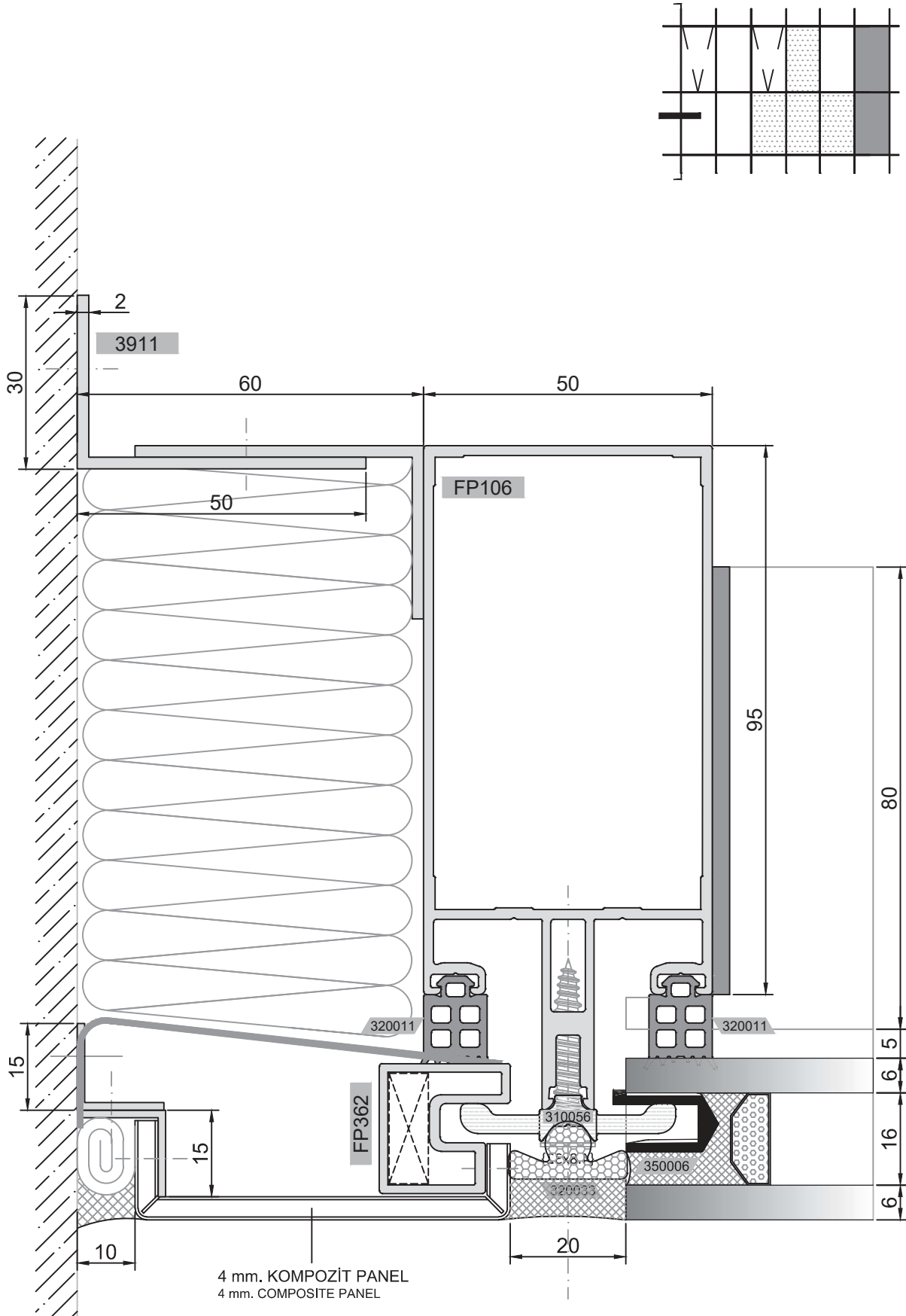


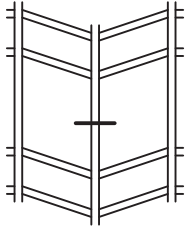




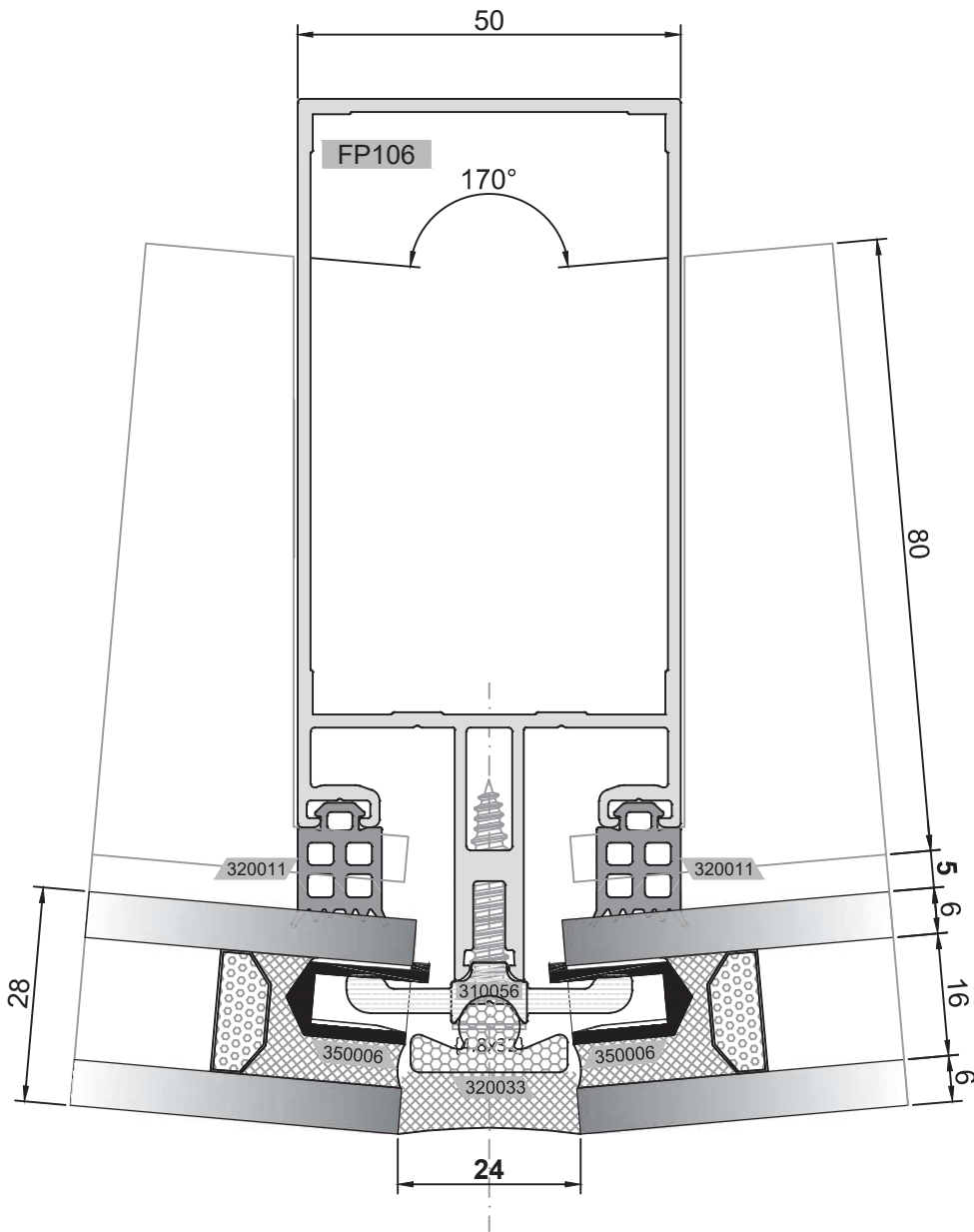


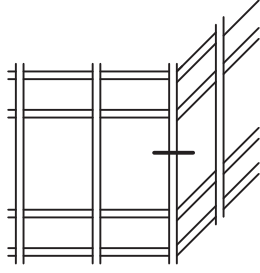






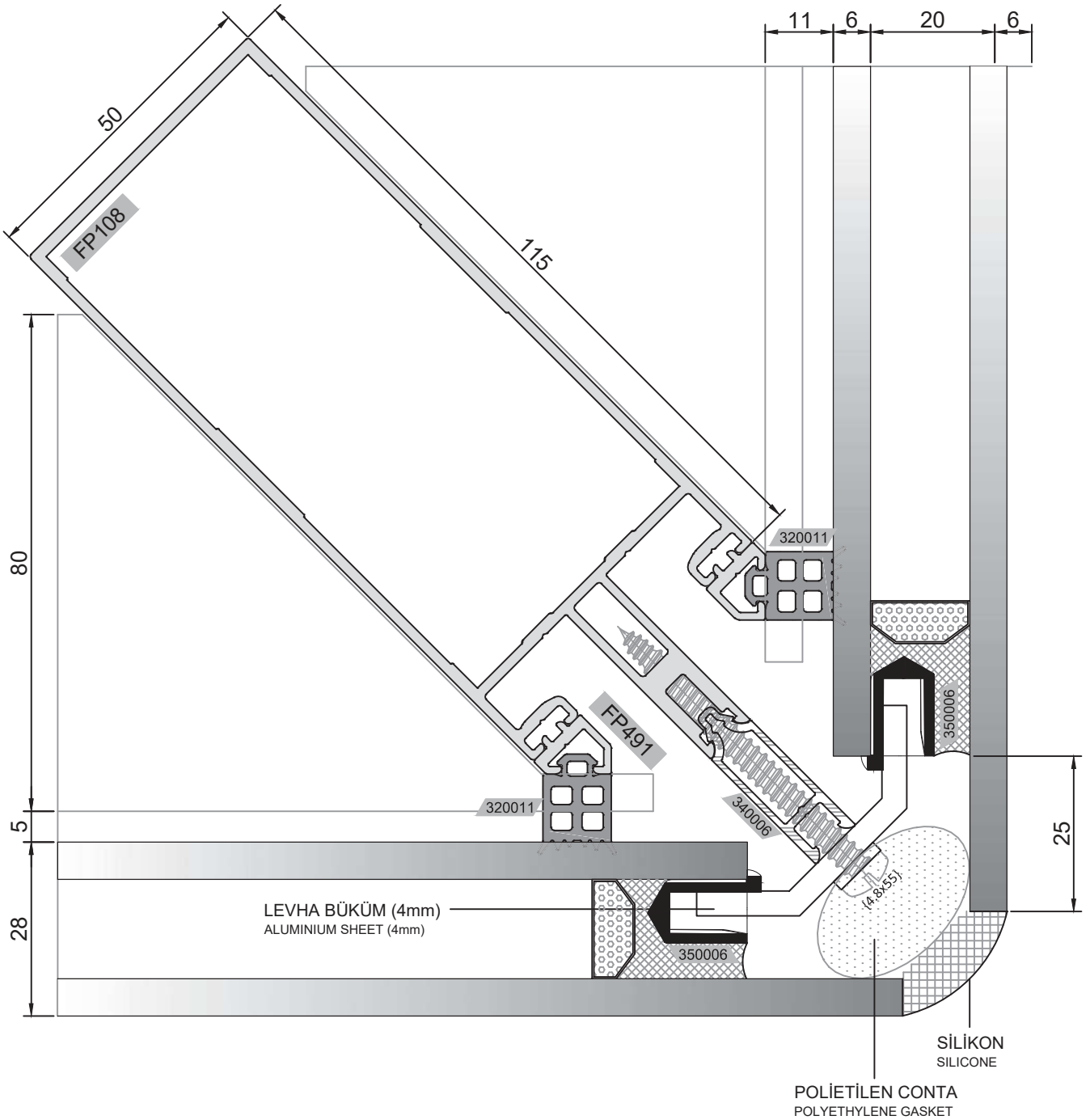
0° - 10°

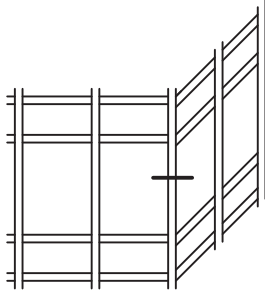




ALTERNATİF 1: TEK DİKMELİ KÖŞE DETAYI
ALTERNATIVE 1 : CORNER DETAIL WITH SINGLE MULLION

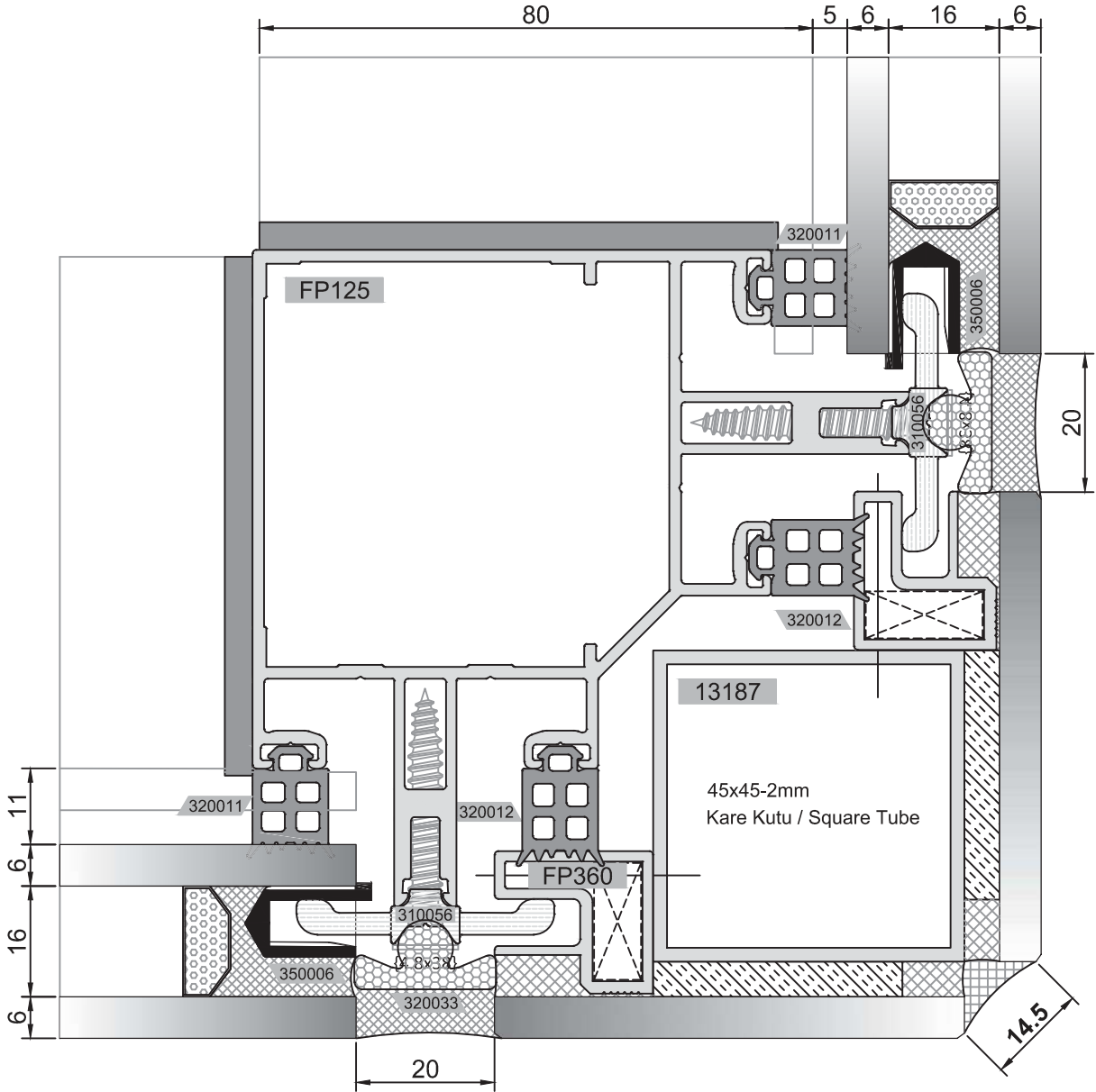
90°

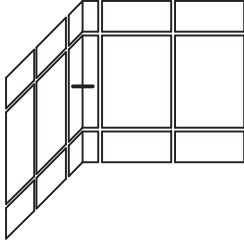




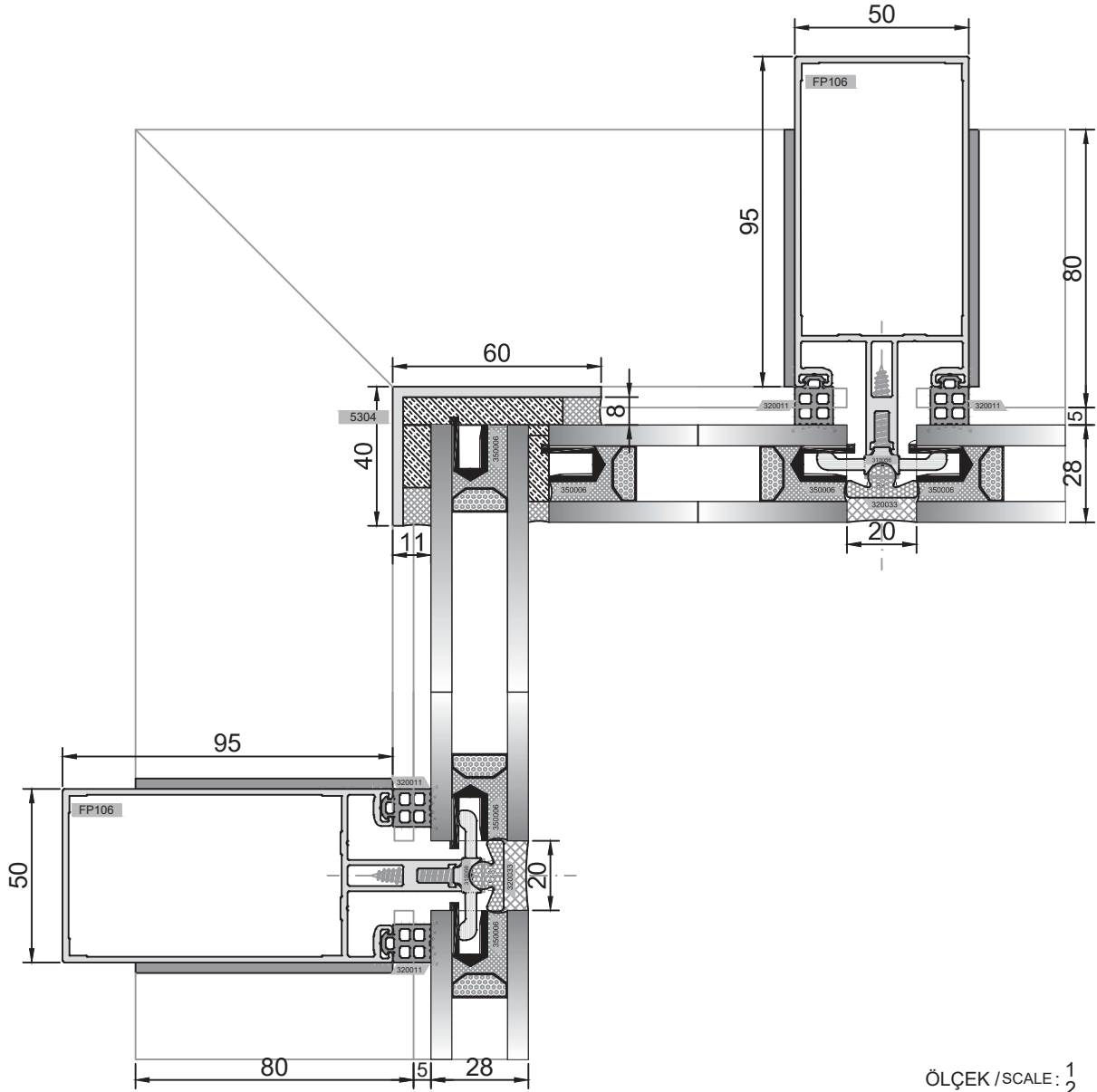
ALTERNATİF 2: ÇİFT DİKMELİ KÖŞE DETAYI
ALTERNATIVE 2 : CORNER DETAIL WITH DOUBLE MULLION

90°

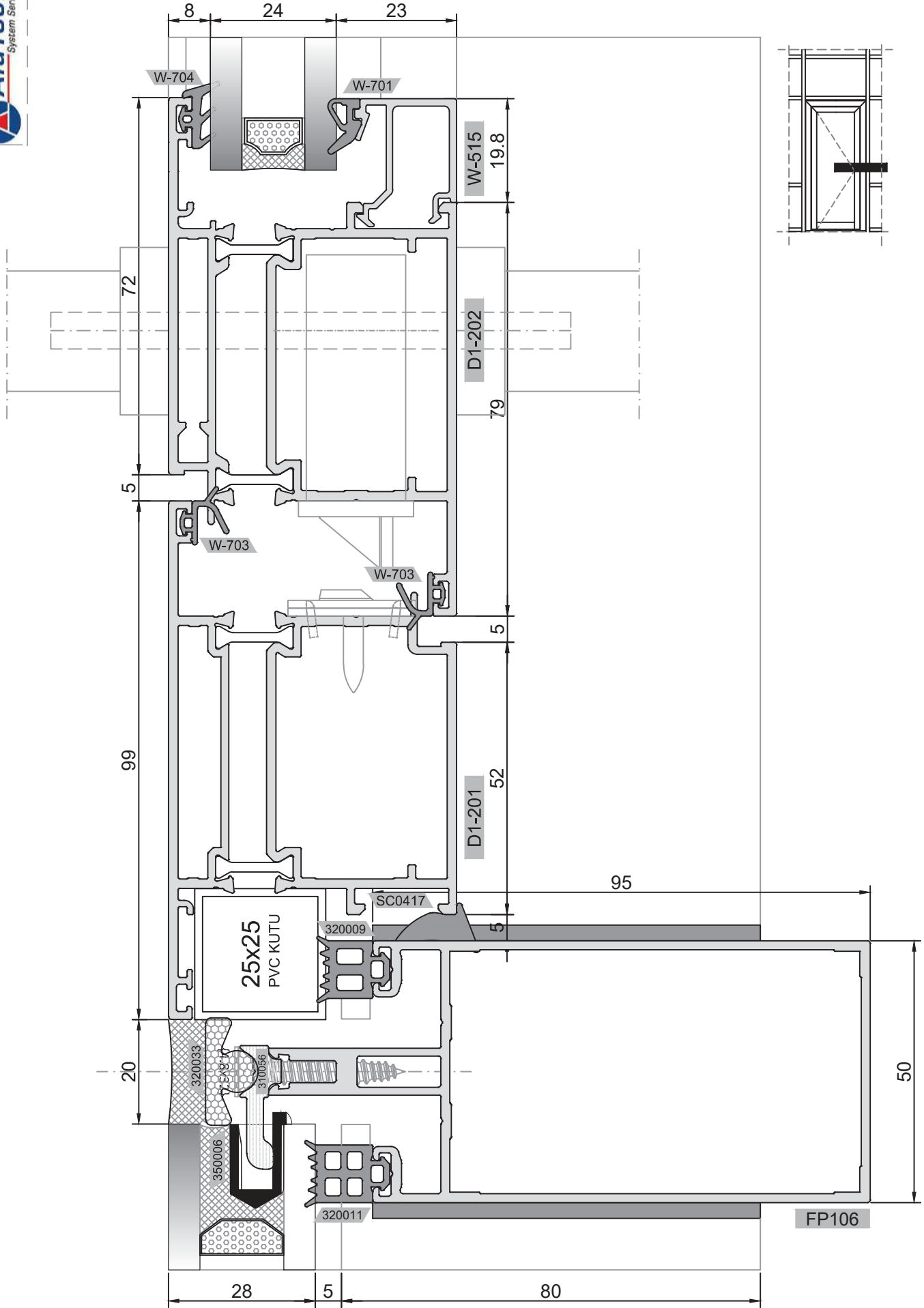




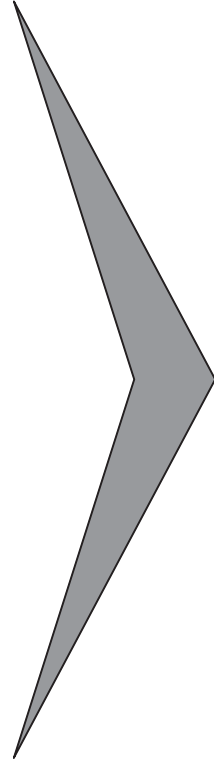
90° İÇ AÇILI CAM CEPHE DÜŞEY KESİT DETAYI
FOUR SIDE WITH 90° INTERNAL ANGLE VERTICAL DETAIL



ÖLÇEK / SCALE: 1/2

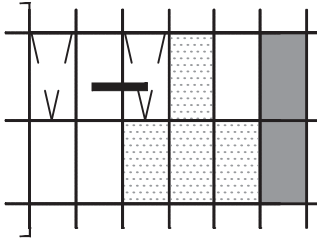


YARI-KAPAKLI CEPHE SEMI-CAPPED CURTAIN WALL

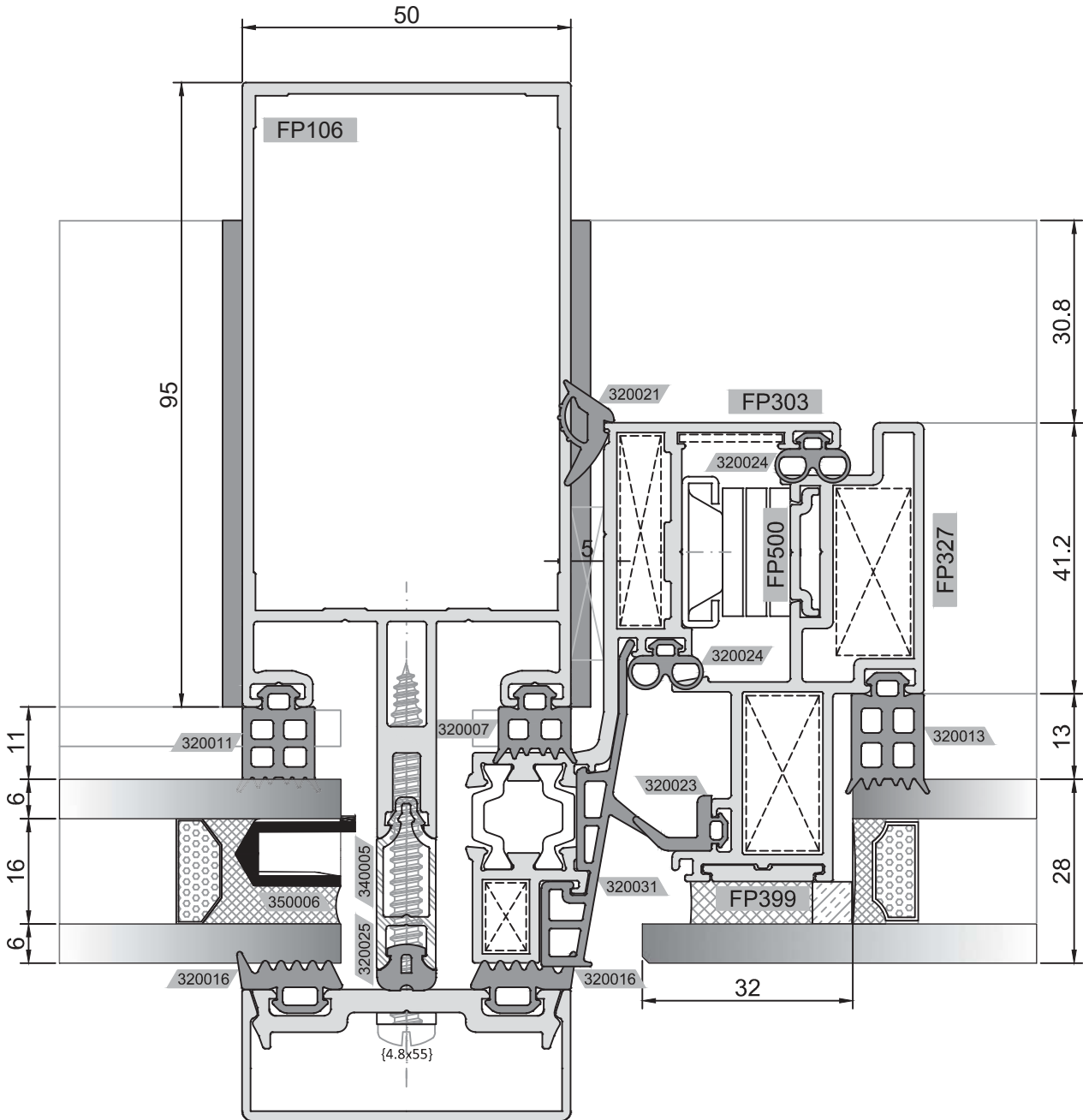


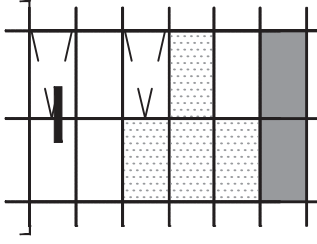
* **16mm ÖZEL SICAK
KENAR ISICAM ÇITASI**
16mm SPECIAL WARM
EDGE SPACER

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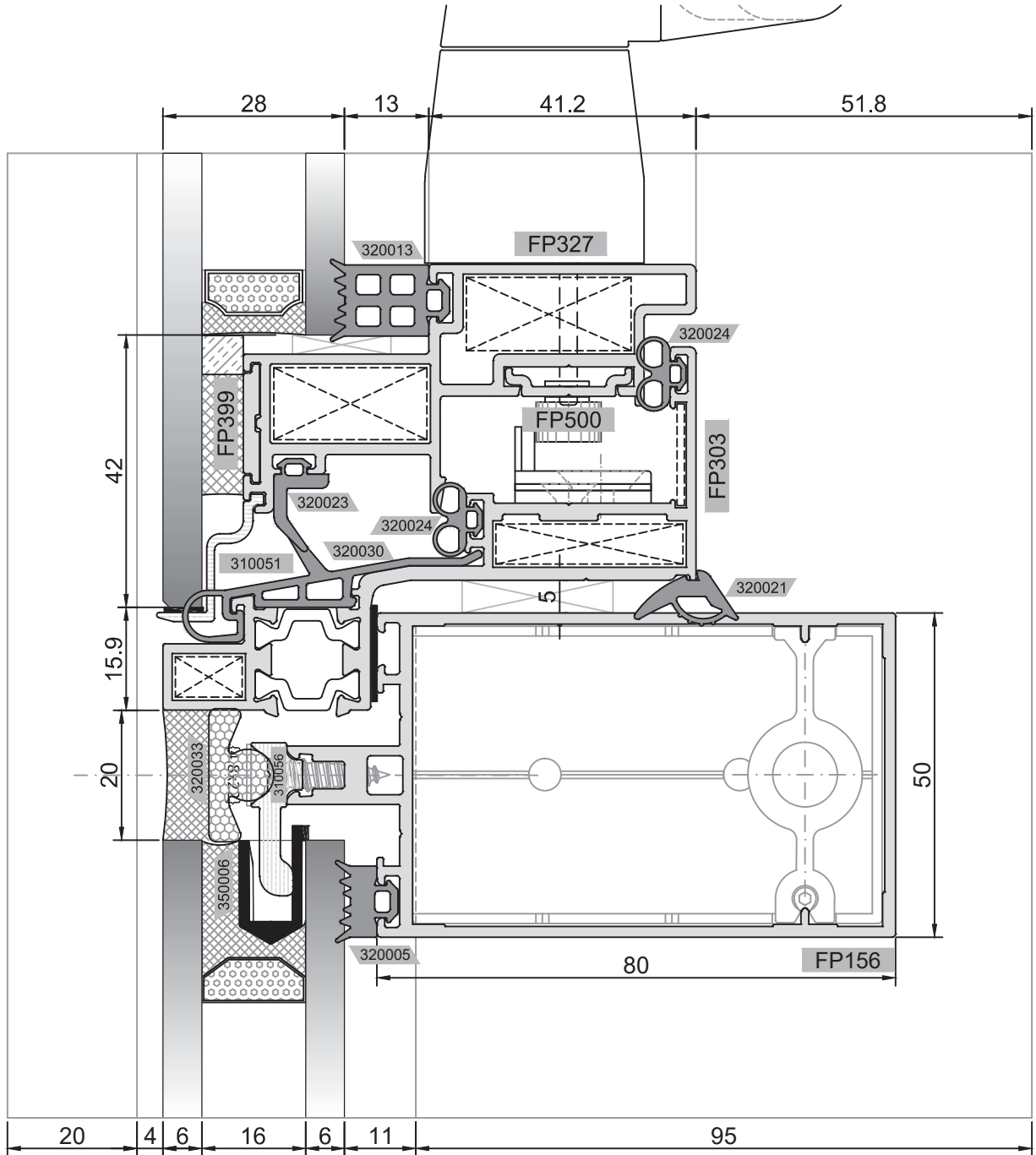


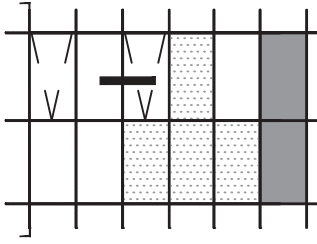
DÜŞEY DETAYI
VERTICAL DETAIL



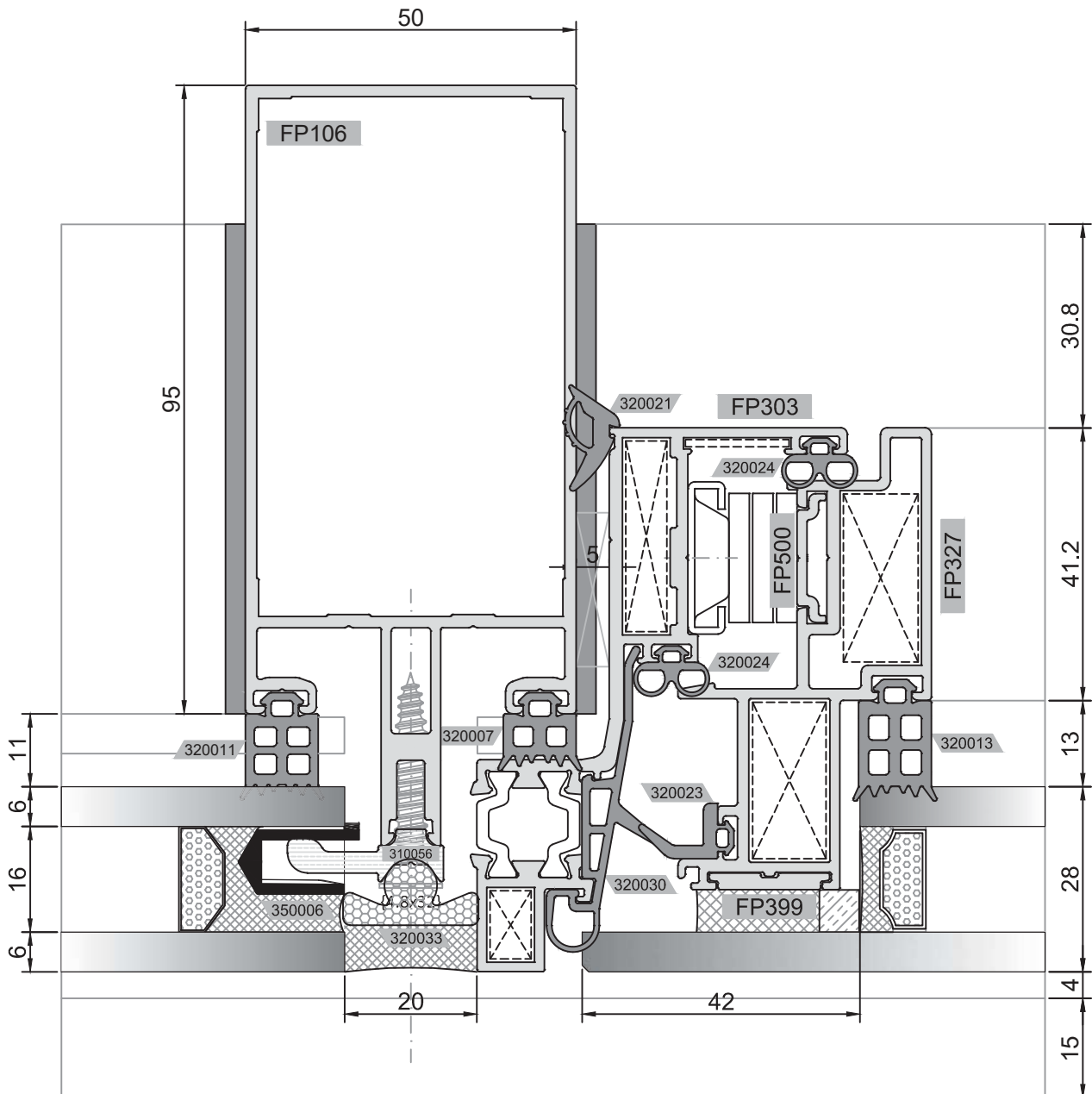


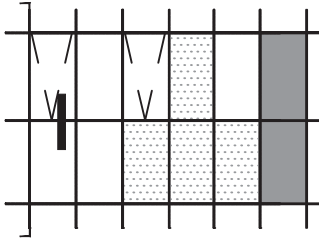
YATAY DETAYI
HORIZONTAL DETAIL



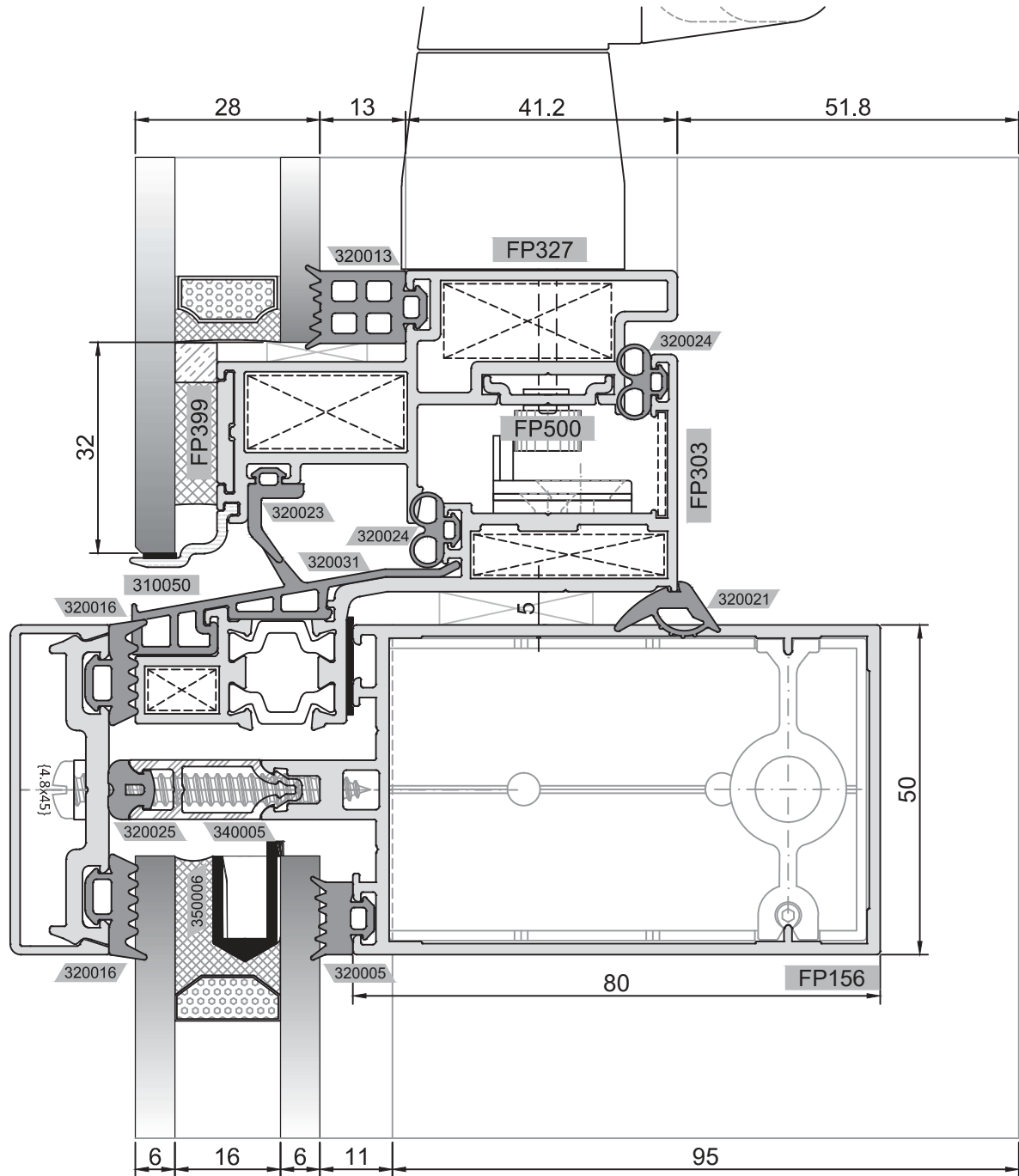


DÜŞEY DETAYI
VERTICAL DETAIL

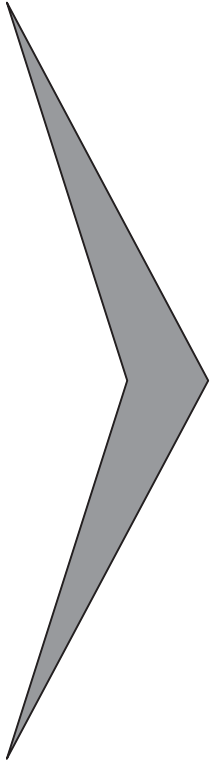




YATAY DETAYI
HORIZONTAL DETAIL

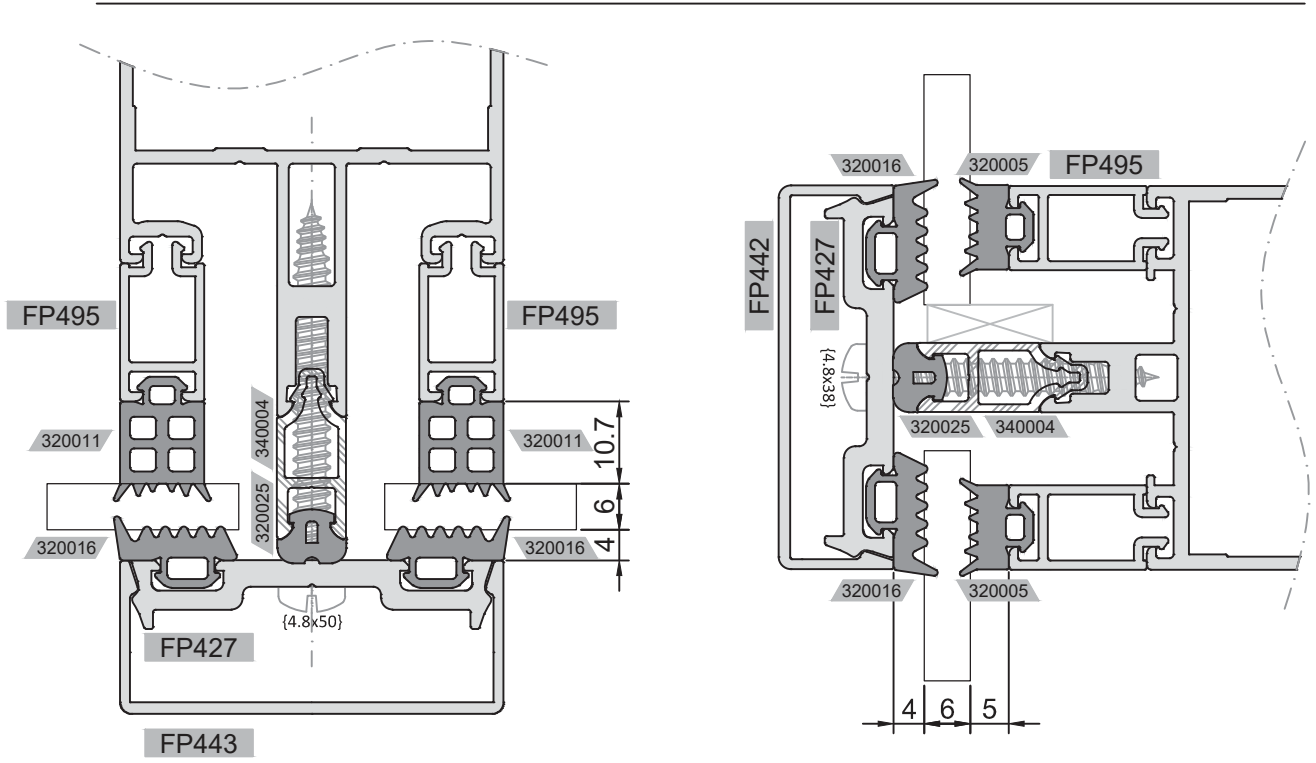


**CAM KALINLIKLARINA GÖRE
KAPAKLI SİSTEM DETAYLARI**
CAPPED CURTAIN WALL DETAILS
ACCORDING TO THE GLASS
THICKNESSES

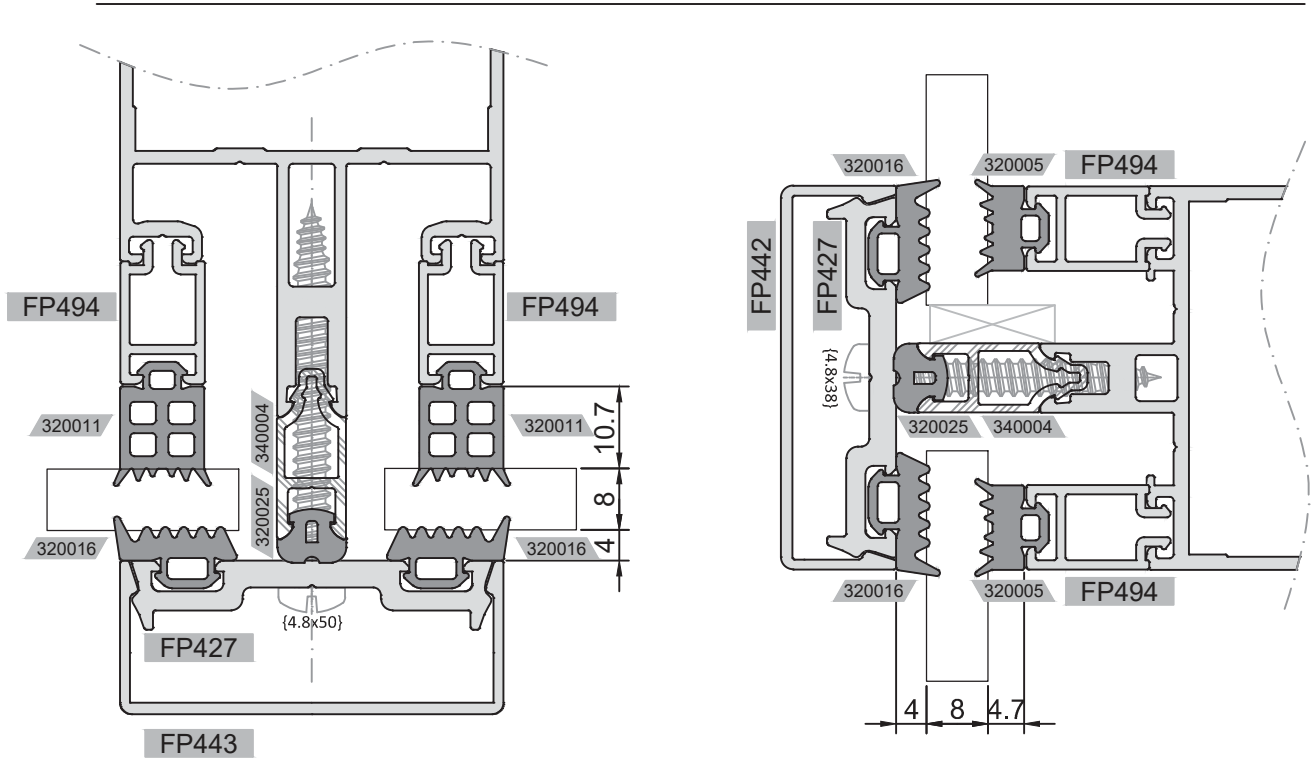


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SİSTEM ALUMINIUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

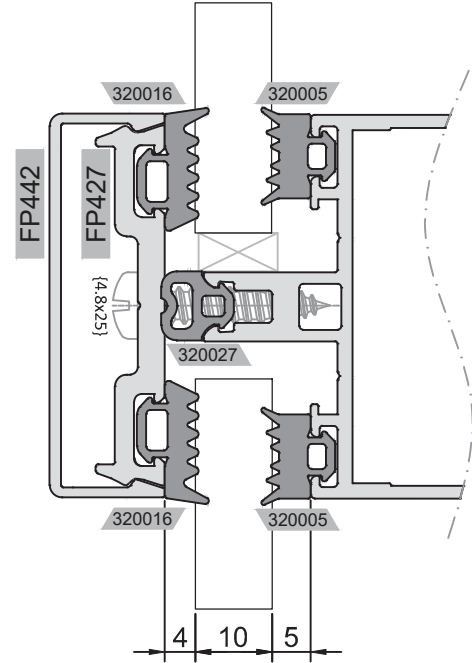
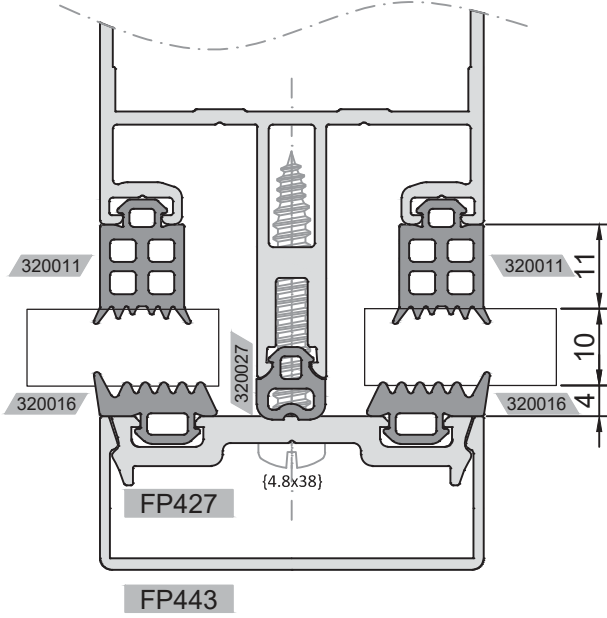
6mm



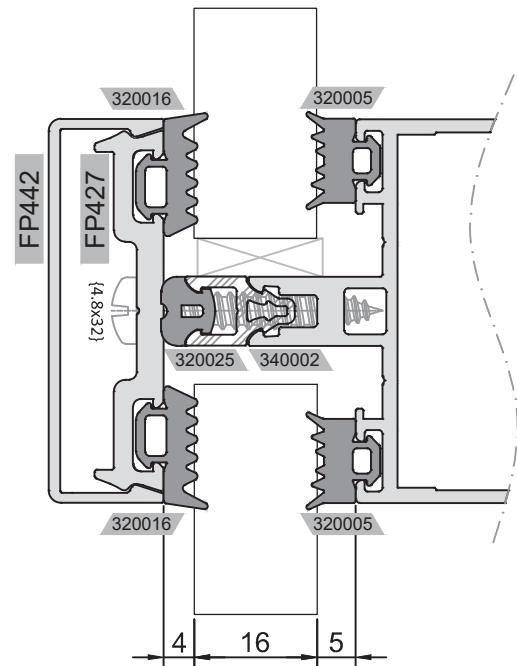
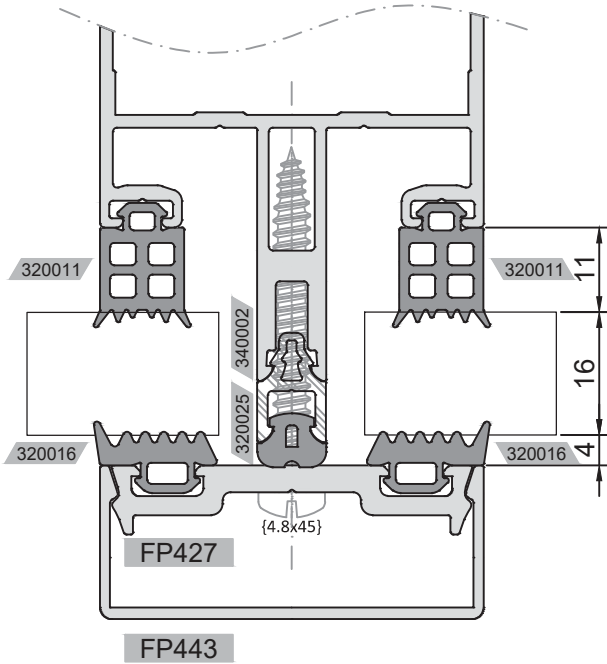
8mm



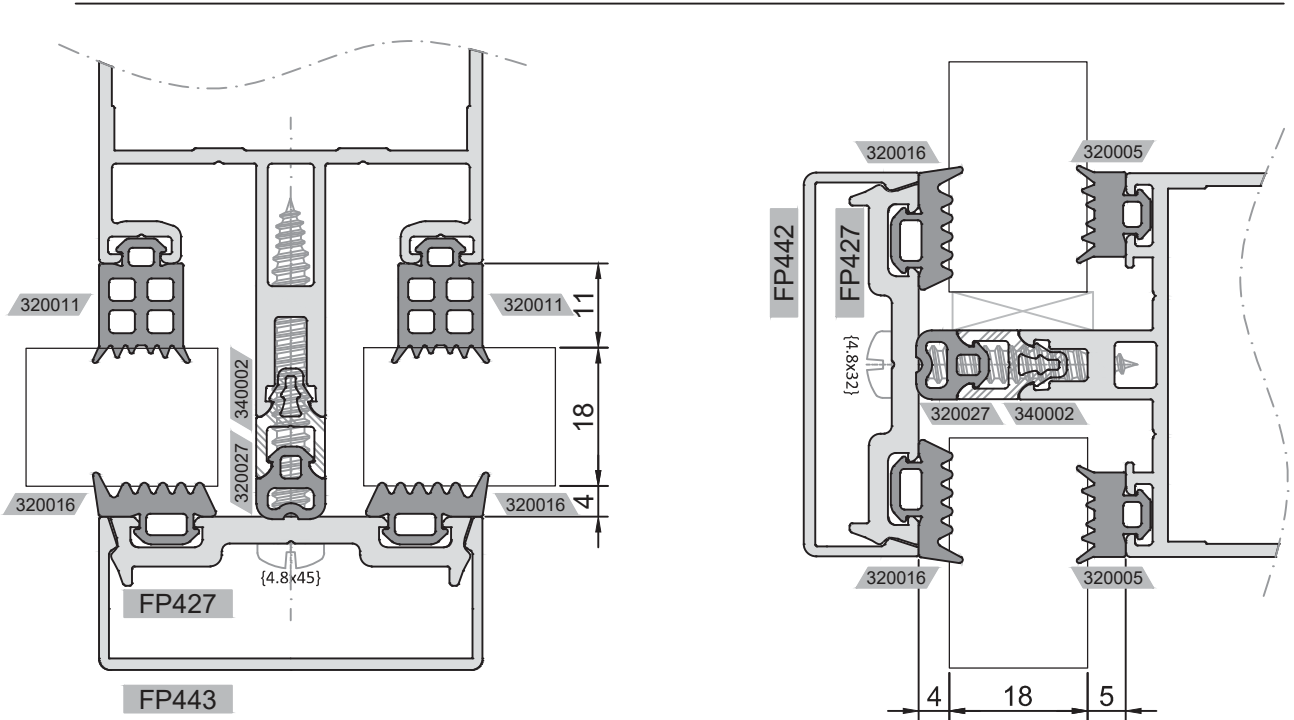
10mm



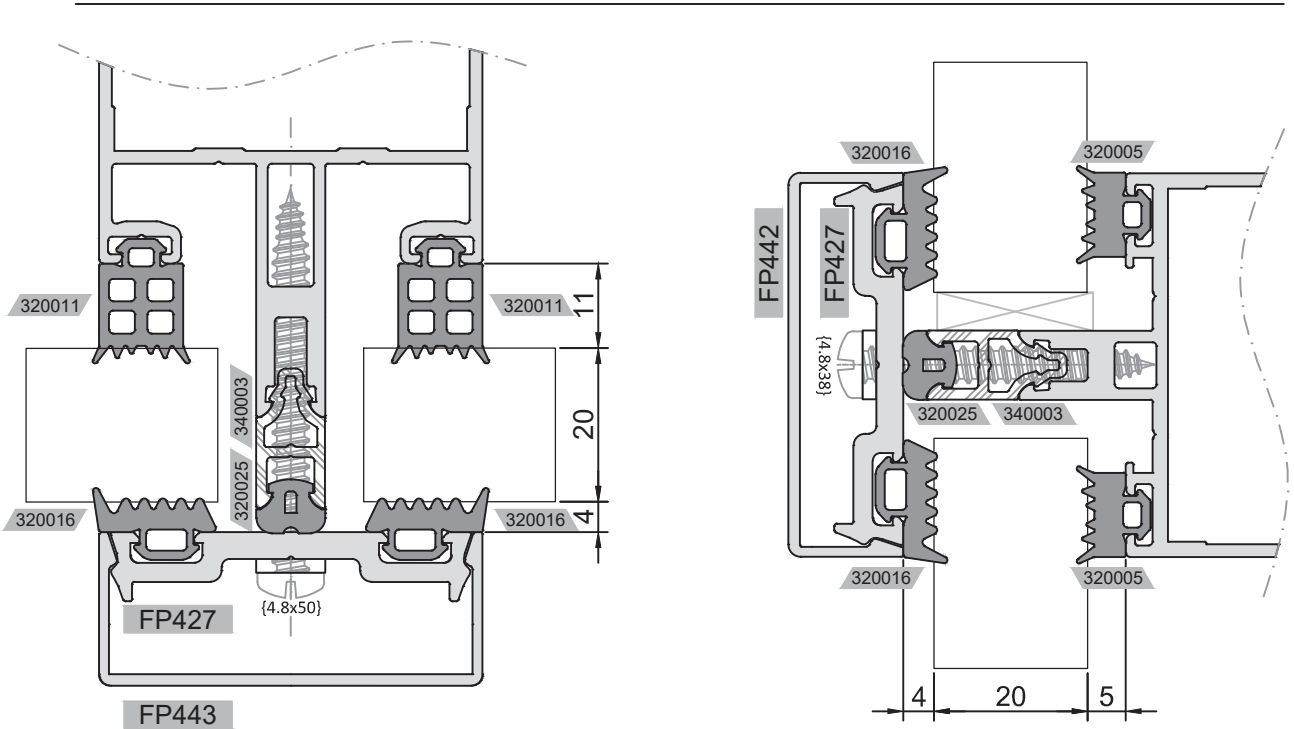
16mm



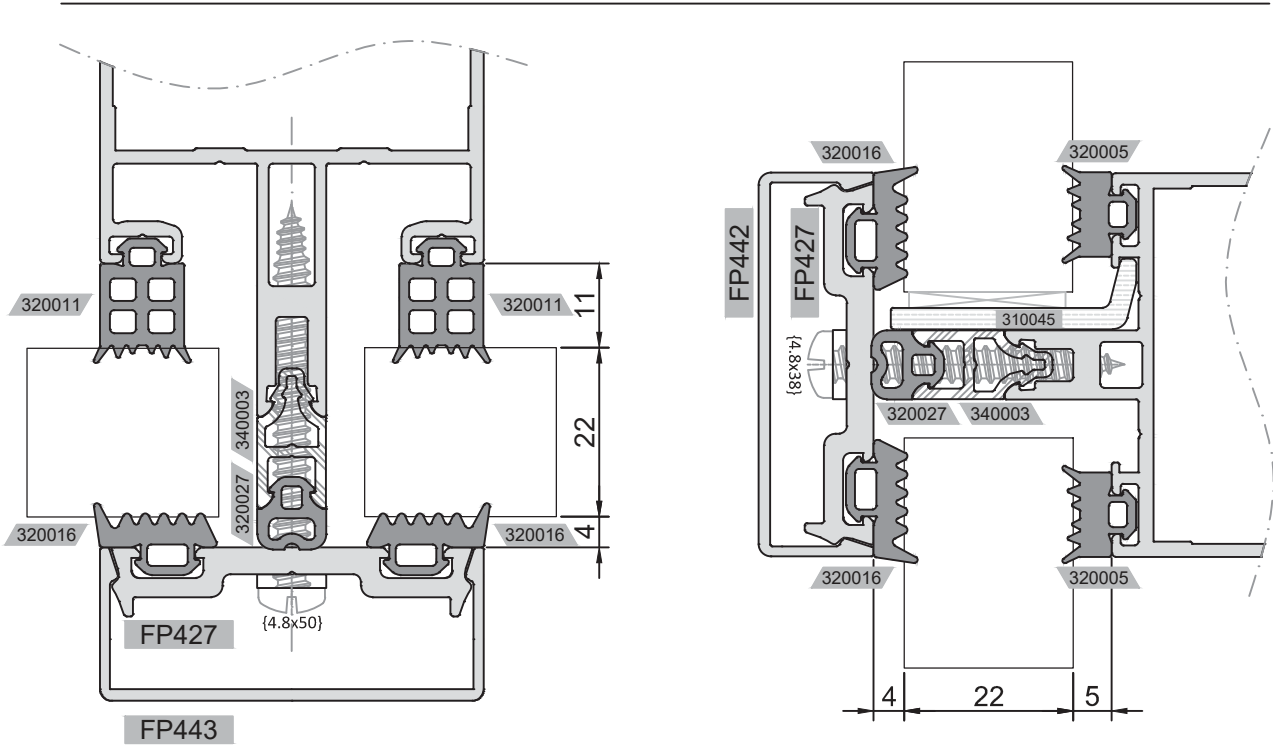
18mm



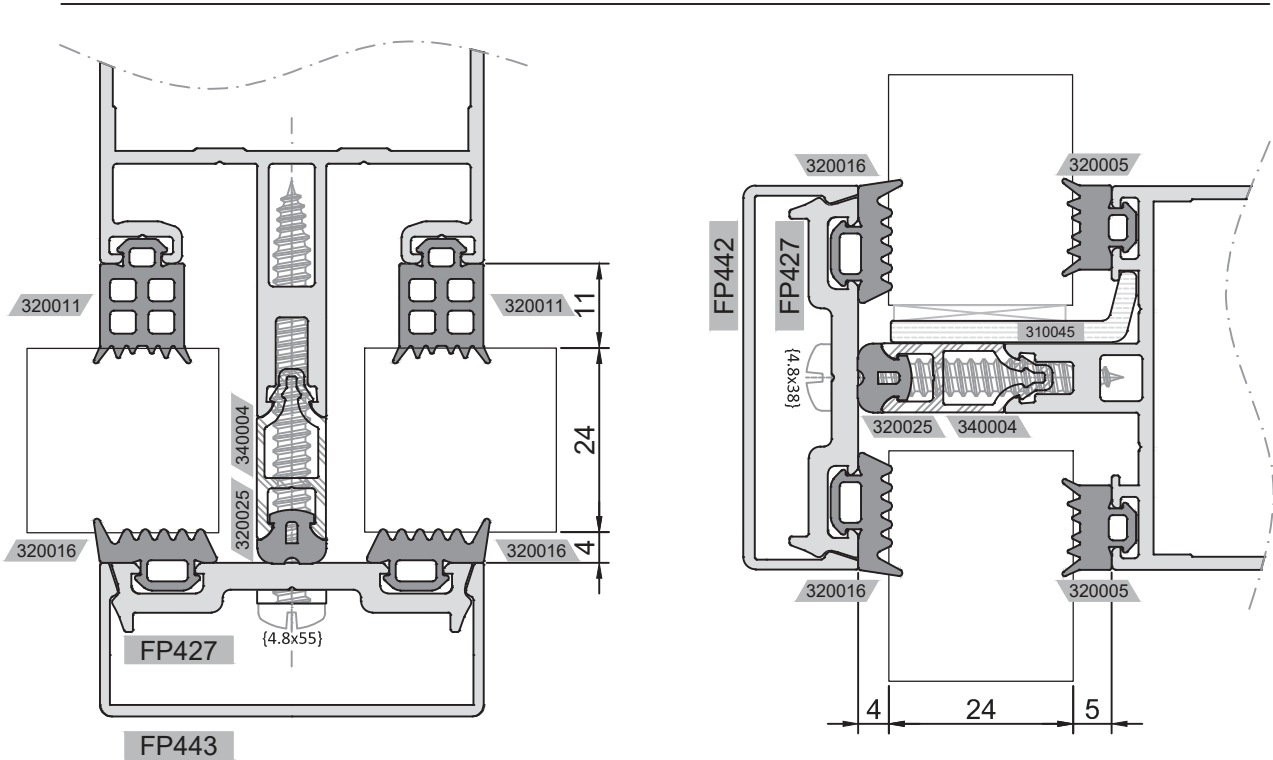
20mm



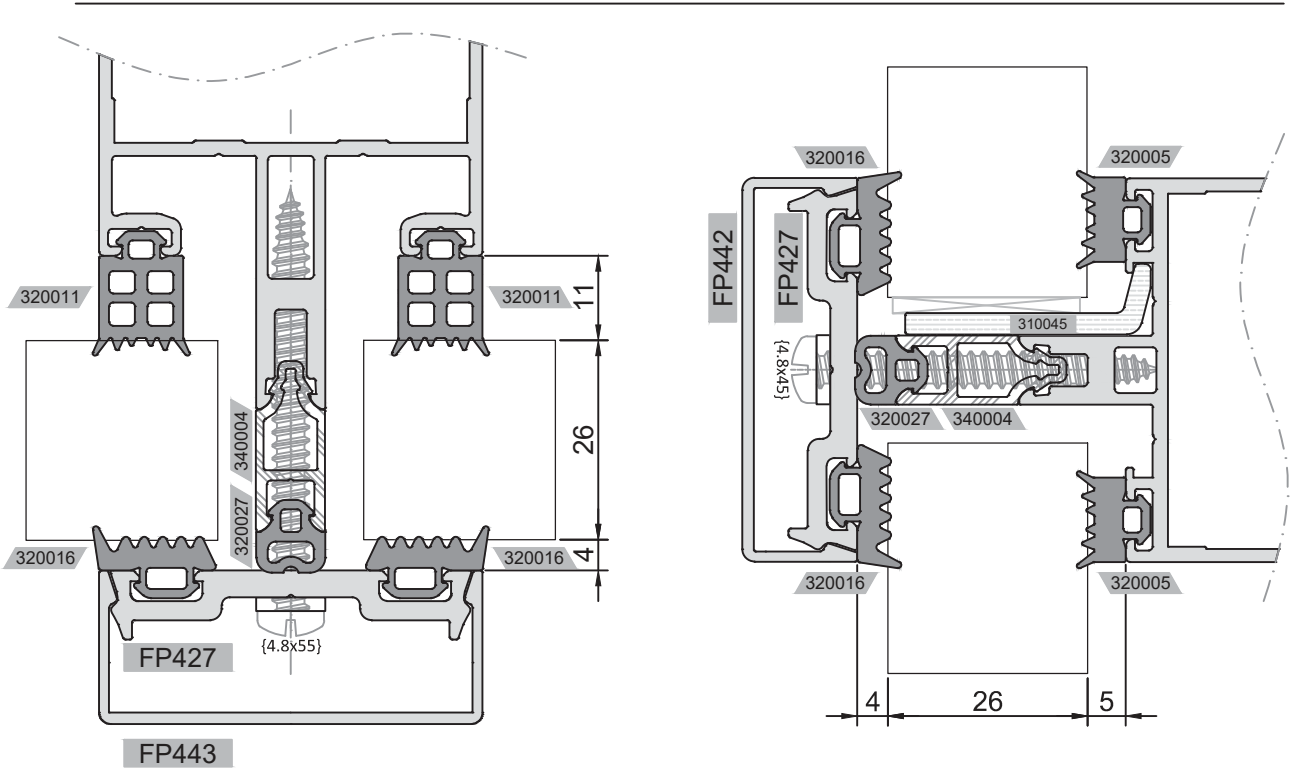
22mm



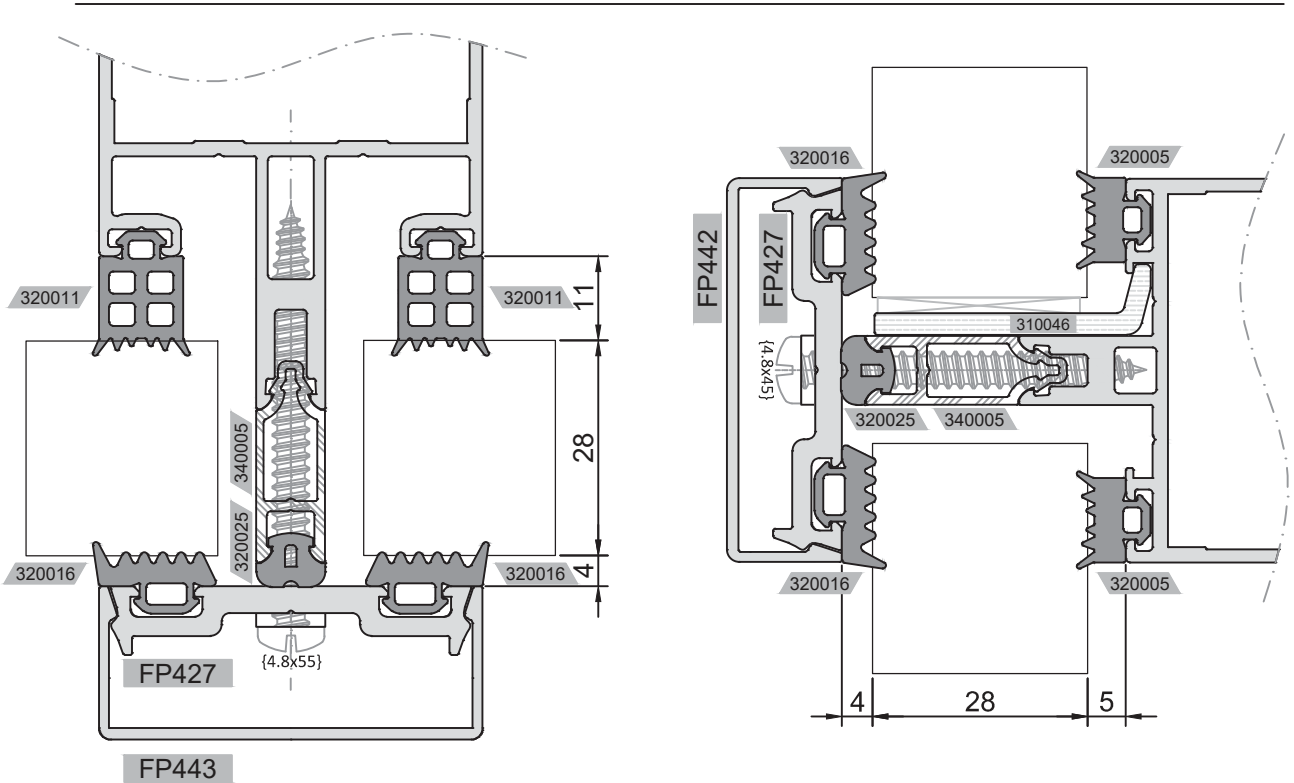
24mm



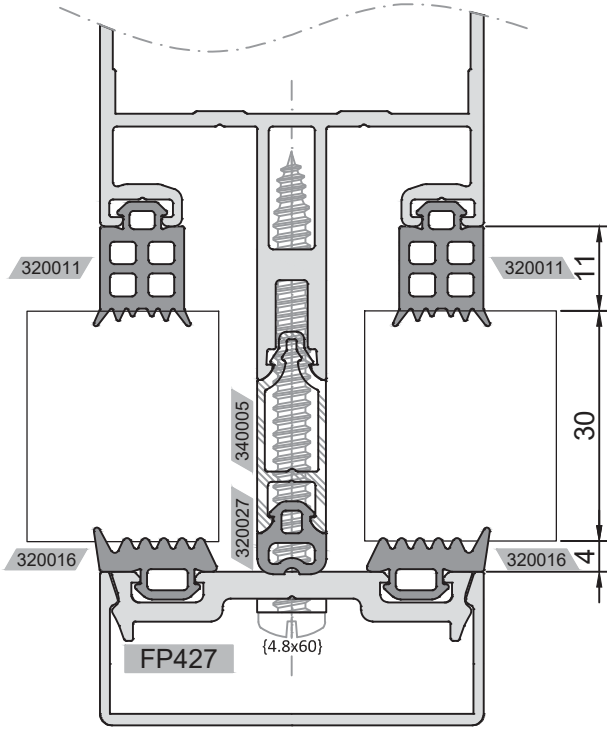
26mm



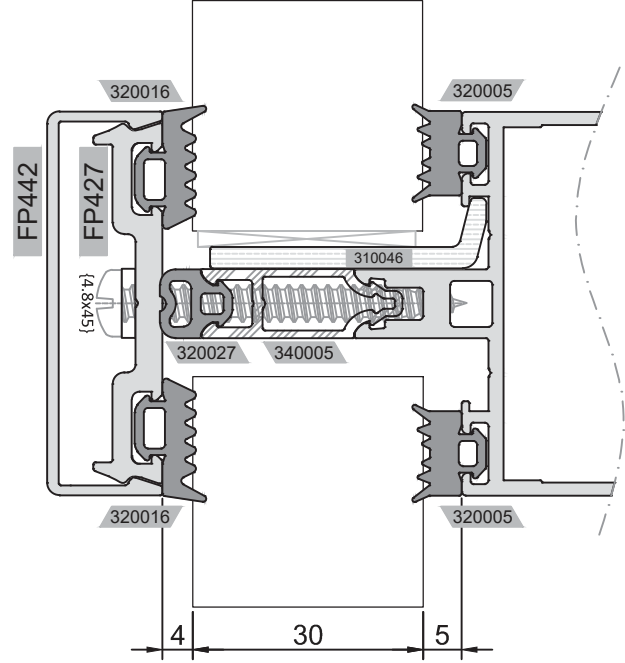
28mm



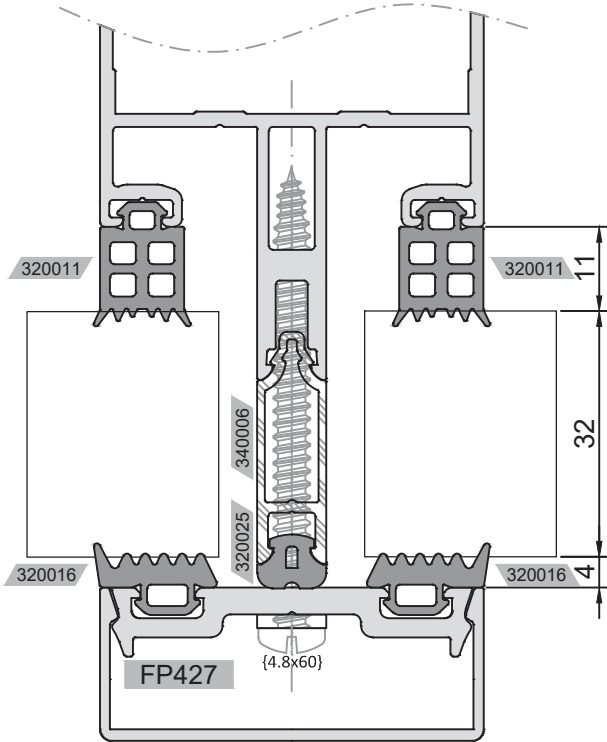
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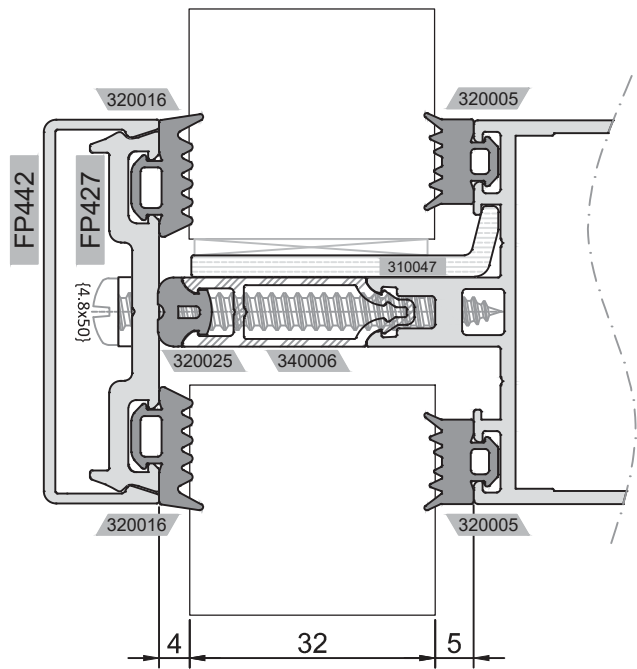
FP443



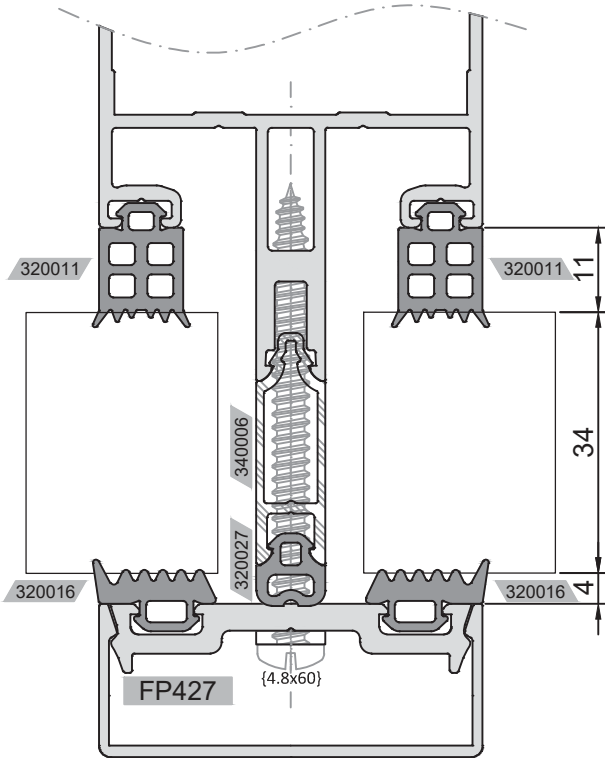
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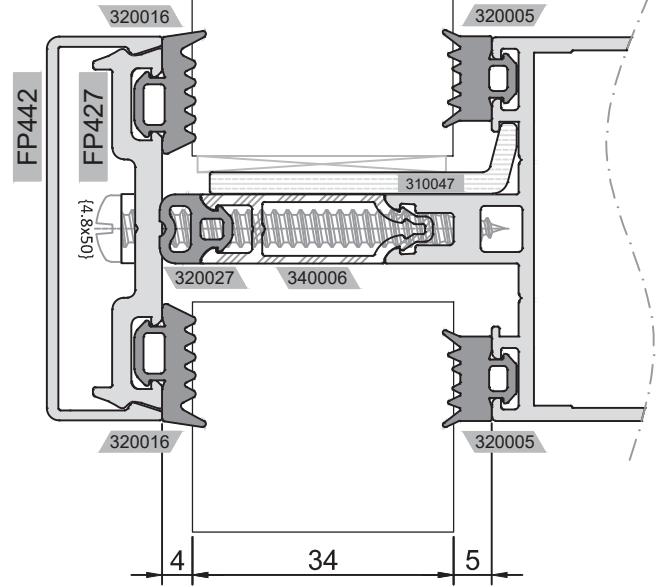
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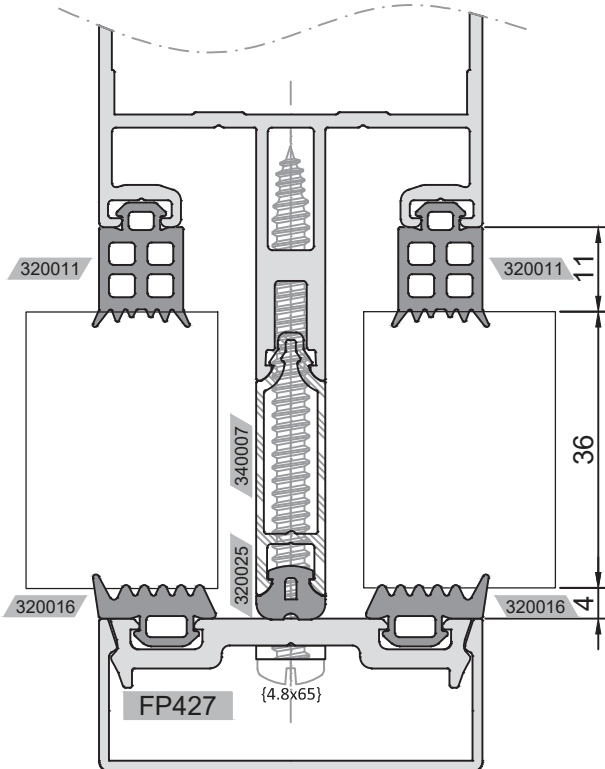
34mm



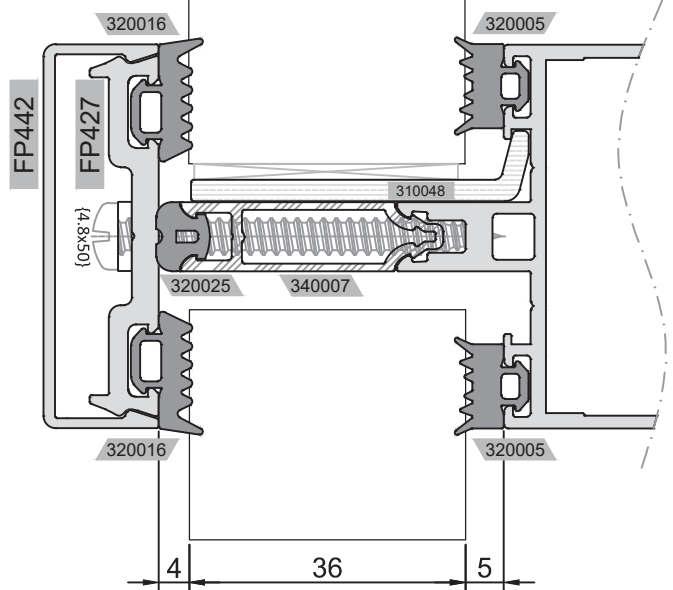
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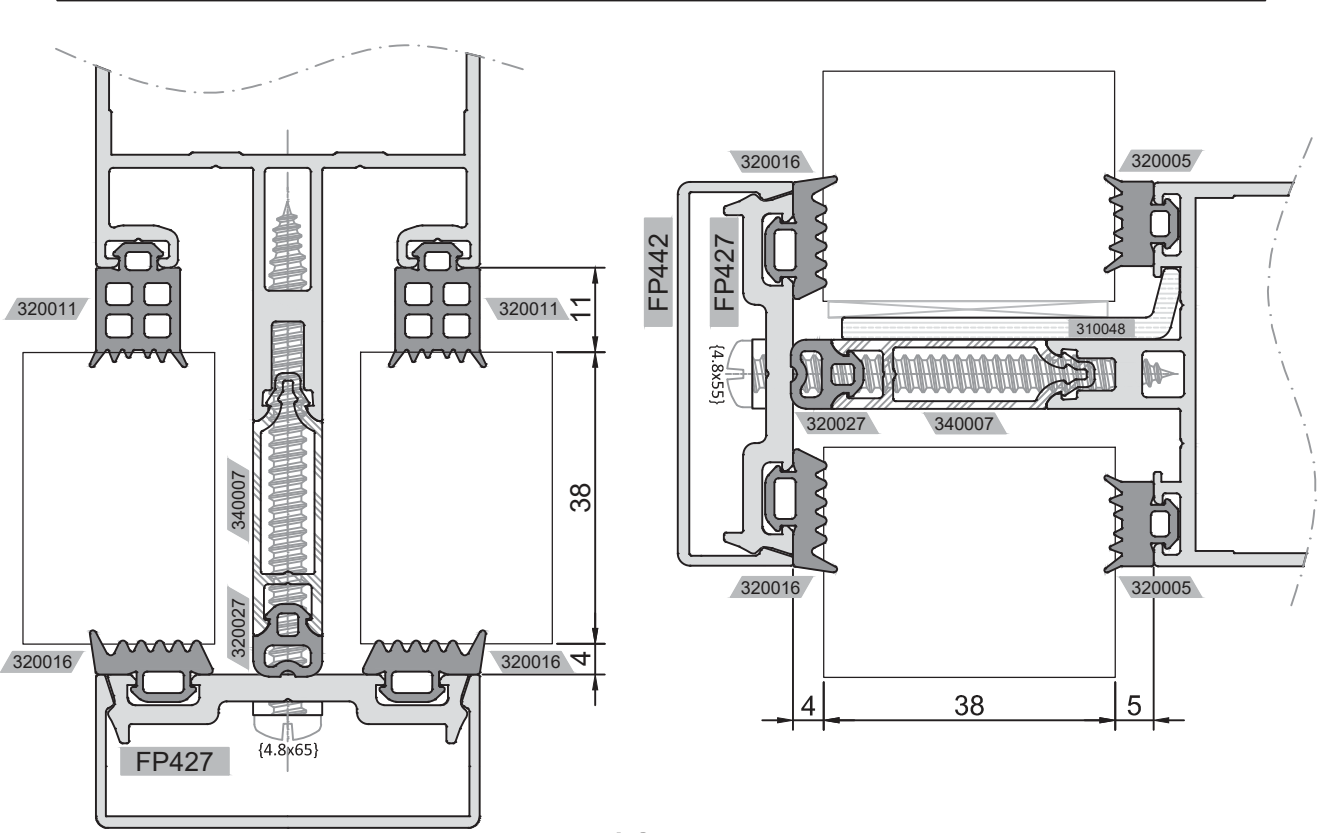
36mm



FP443

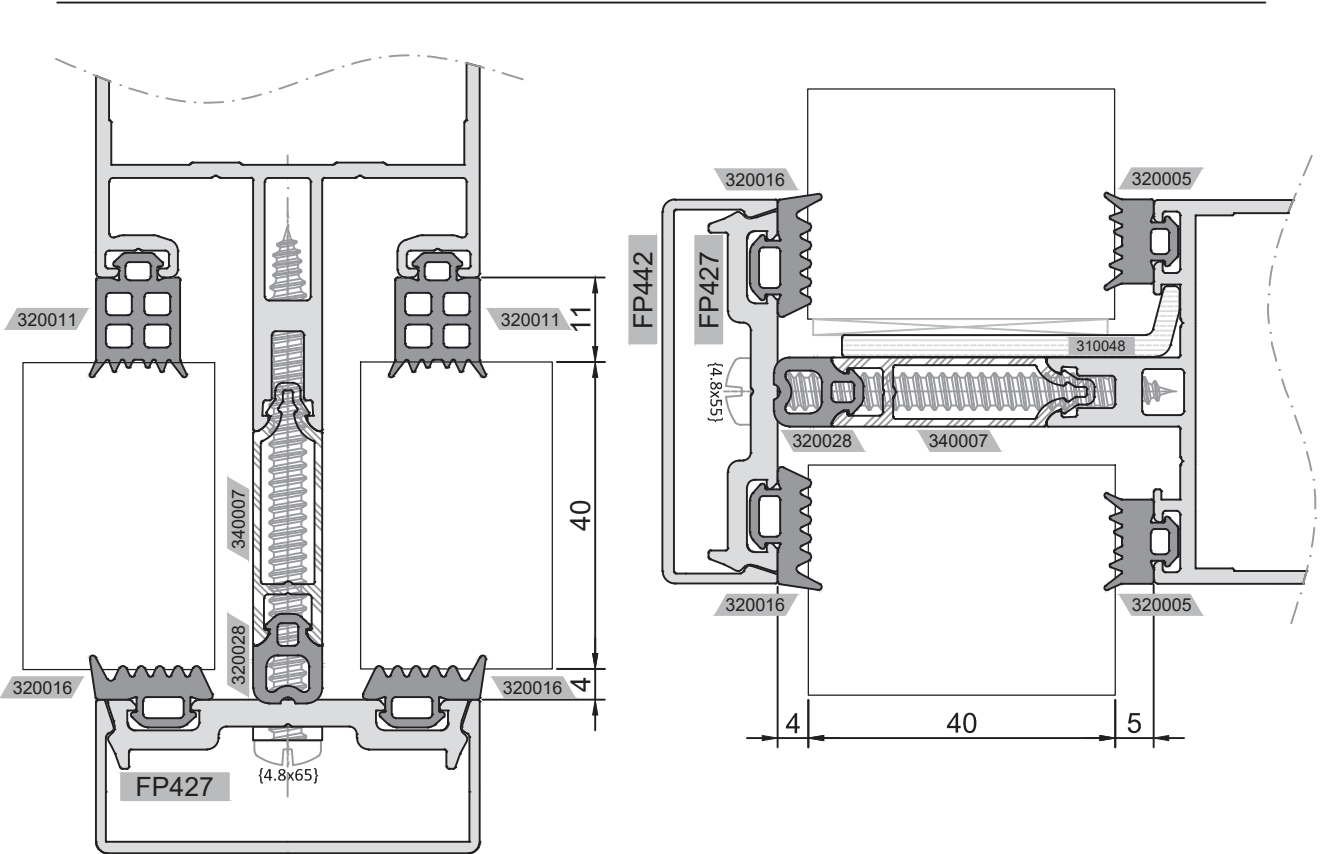


38mm



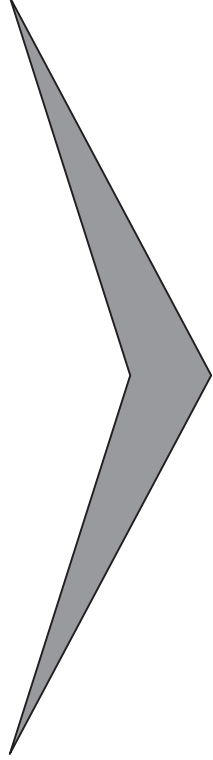
FP443

40mm



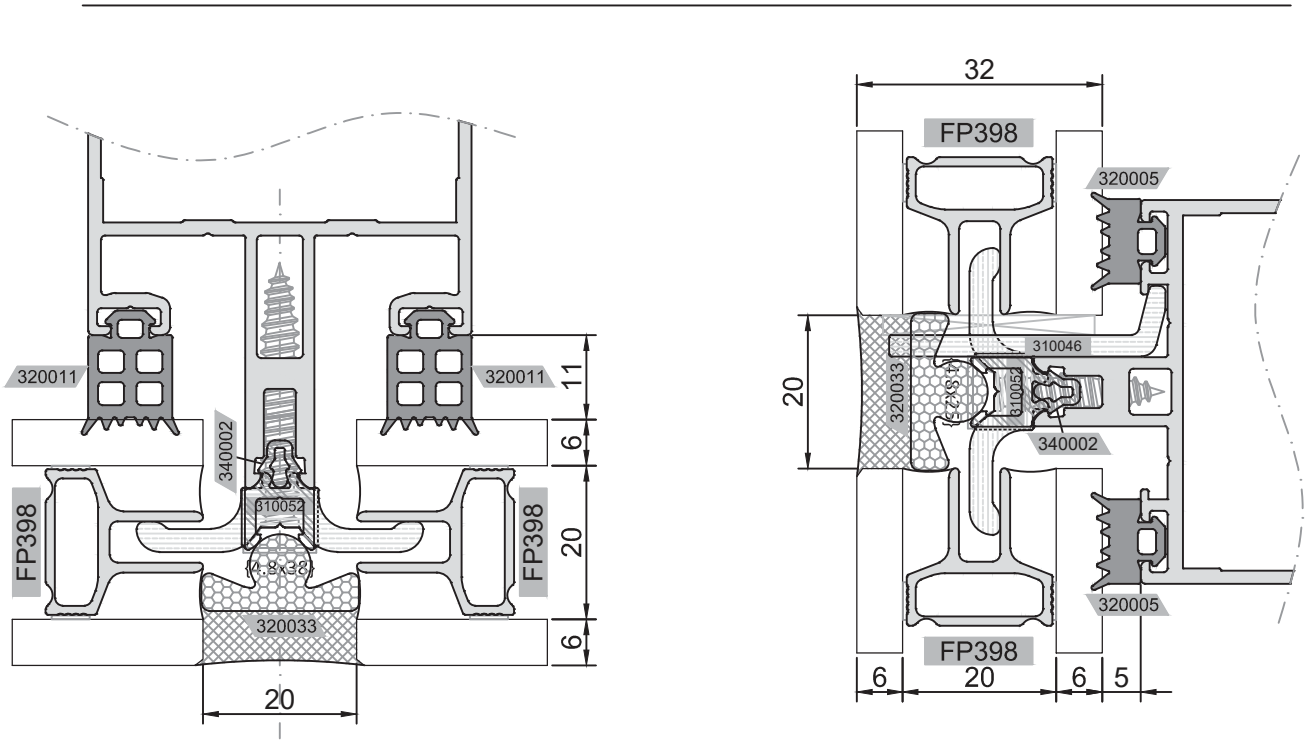
FP443

**CAM KALINLIKLARINA GÖRE
ENTEĞRE SİSTEM DETAYLARI**
**INTEGRATED CURTAIN WALL
DETAILS ACCORDING TO THE
GLASS THICKNESSES**

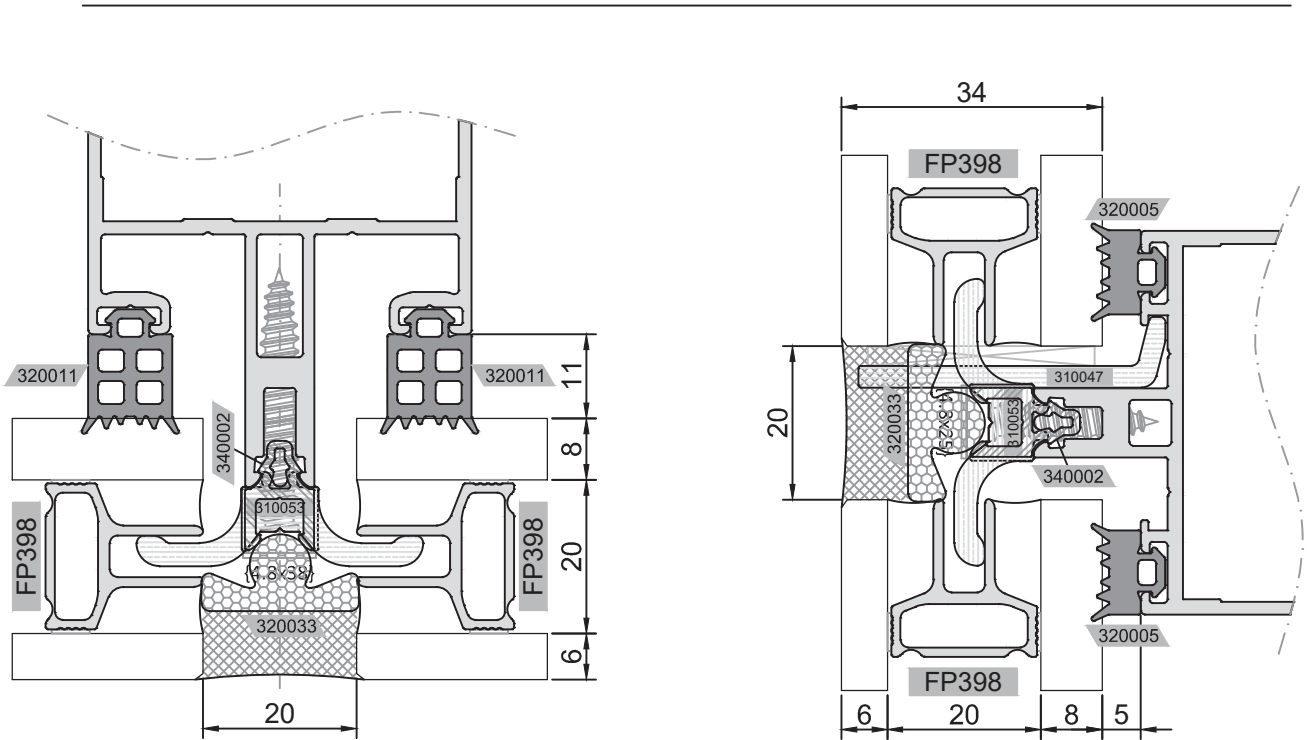


*** 20mm STANDART
ALÜMİNYUM
ISICAM ÇİTASI
20mm STANDARD
ALUMINIUM SPACER**

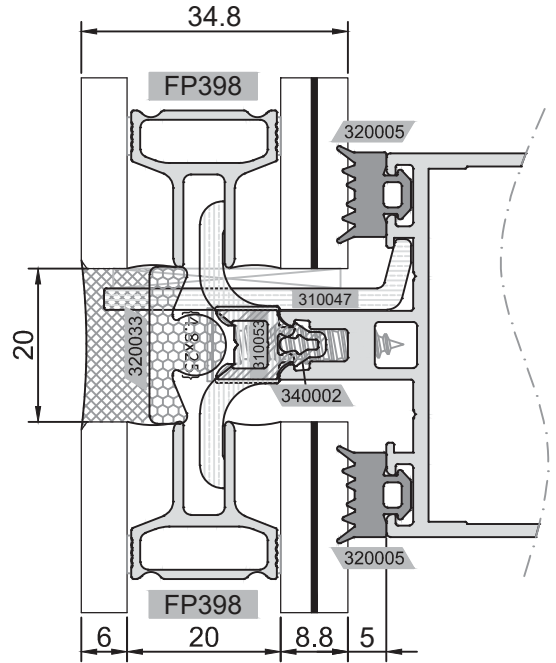
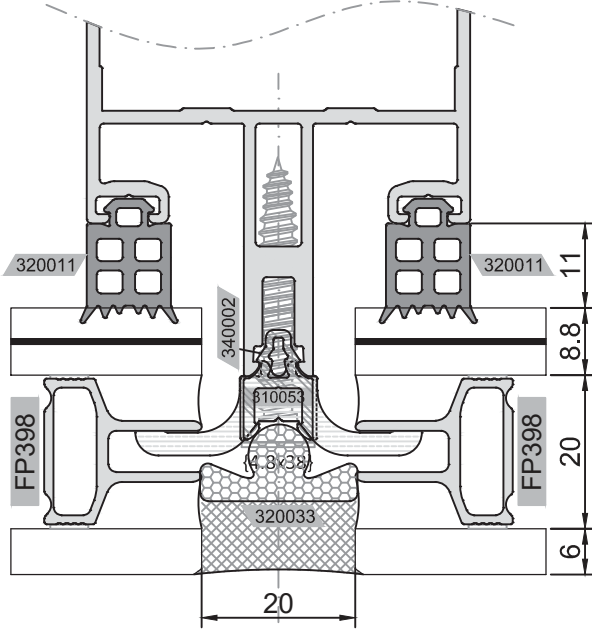
32mm



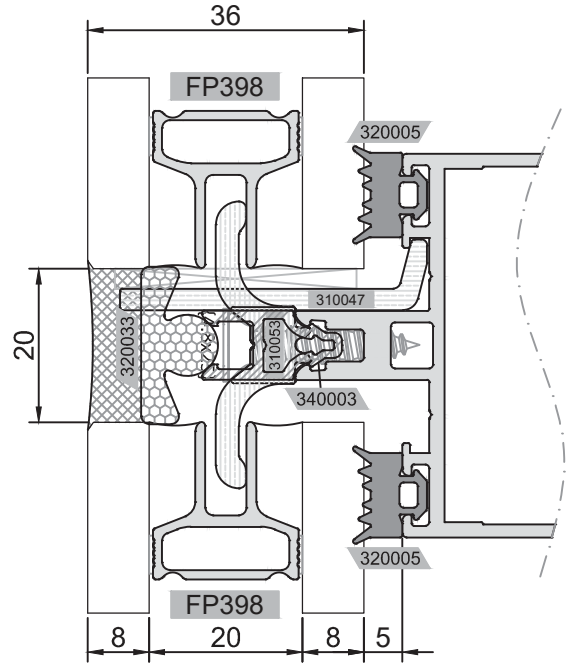
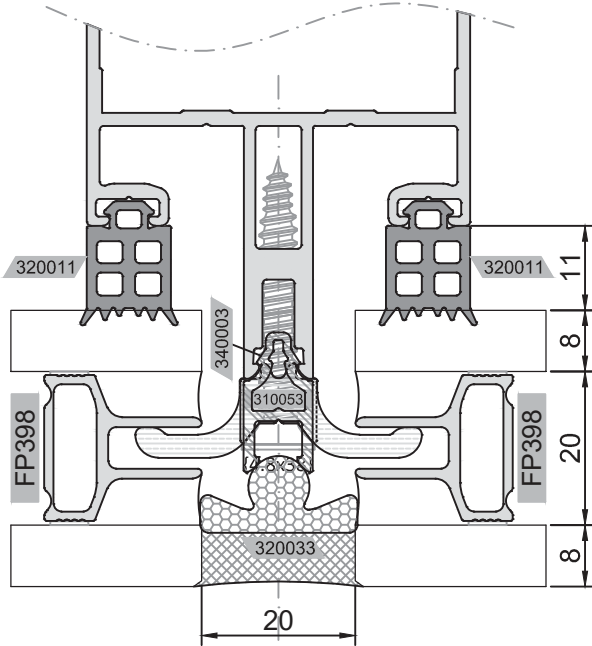
34mm



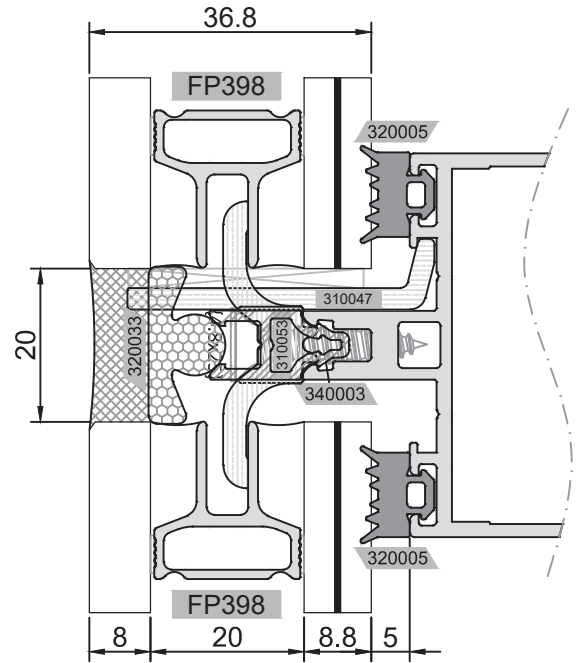
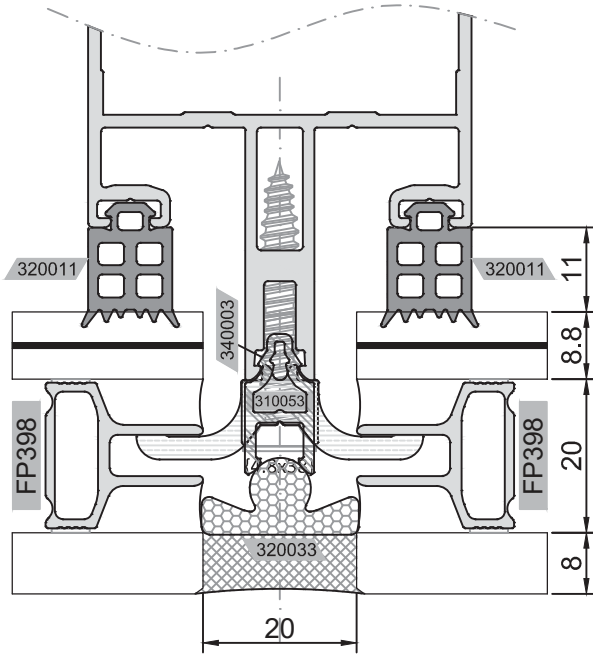
34,76mm



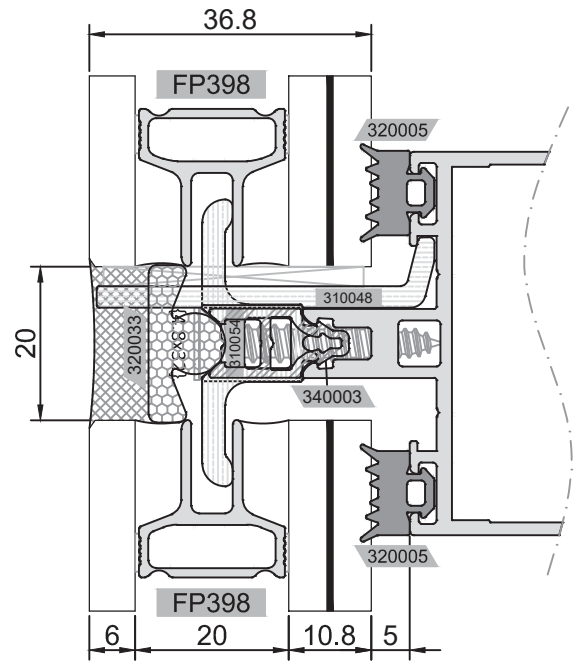
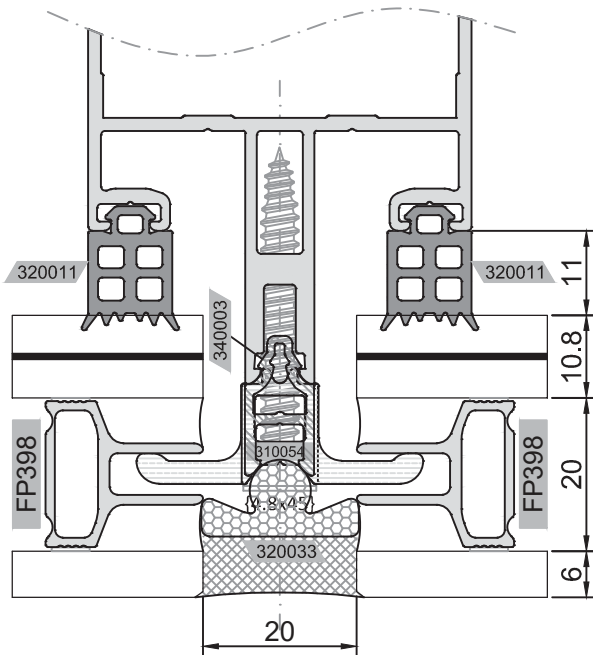
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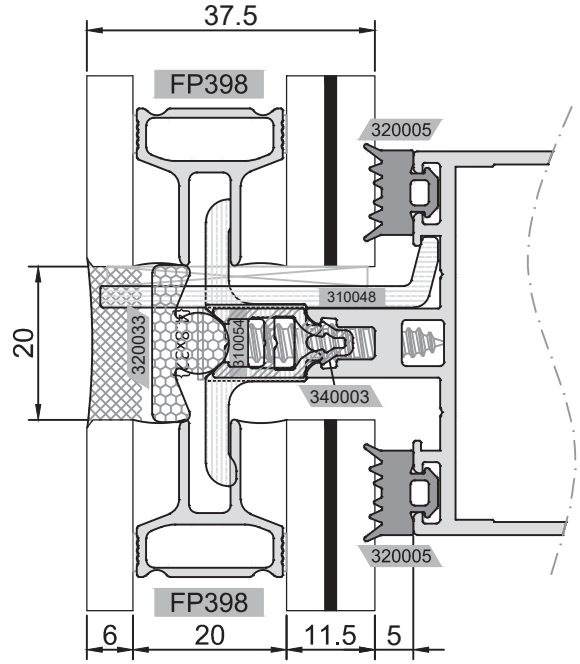
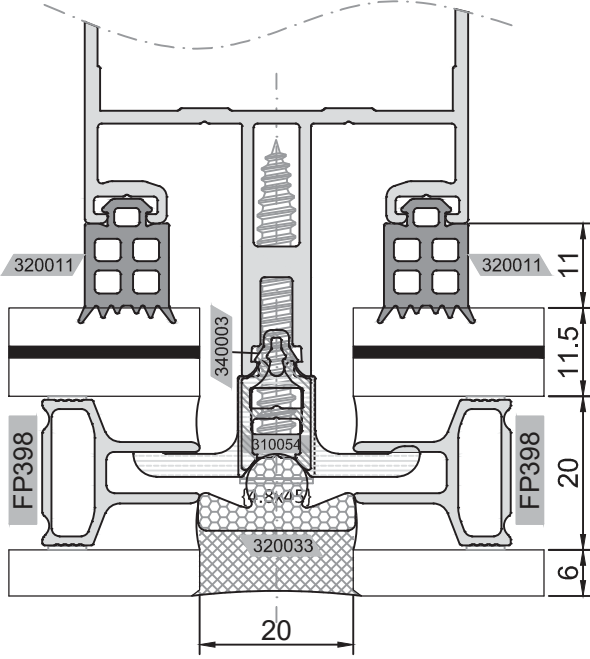
36,76mm



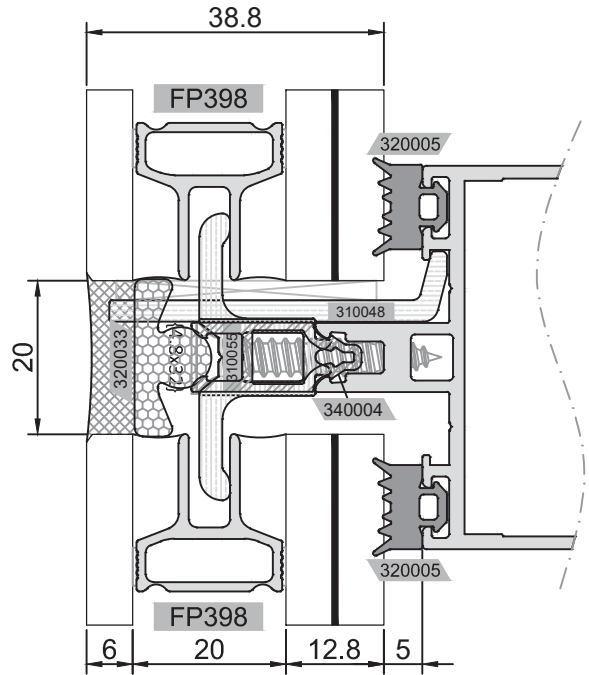
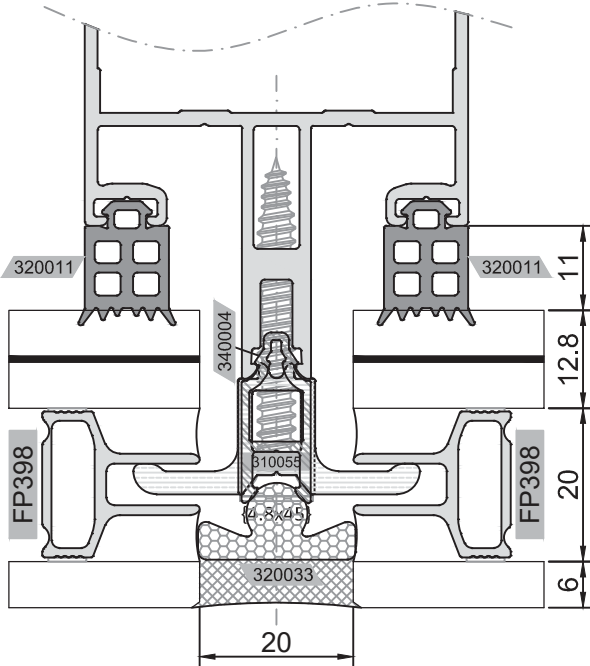
36,76mm



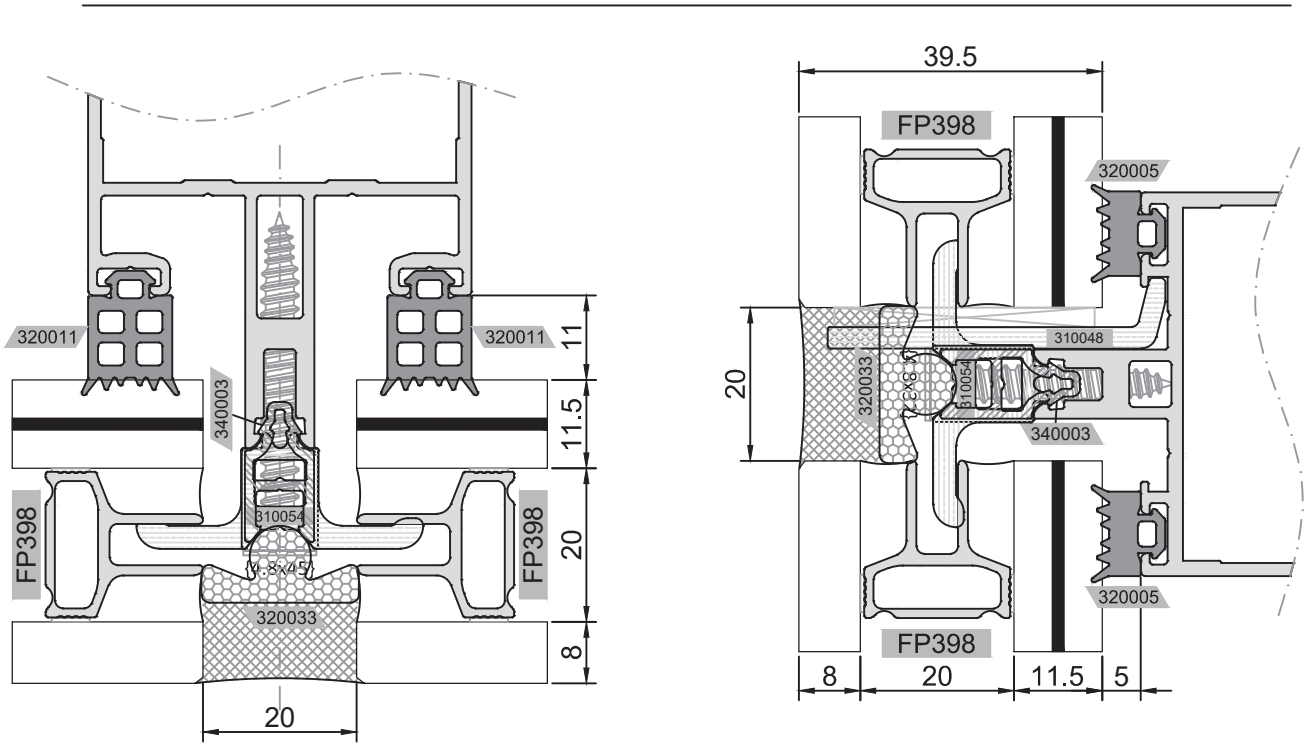
37,52mm



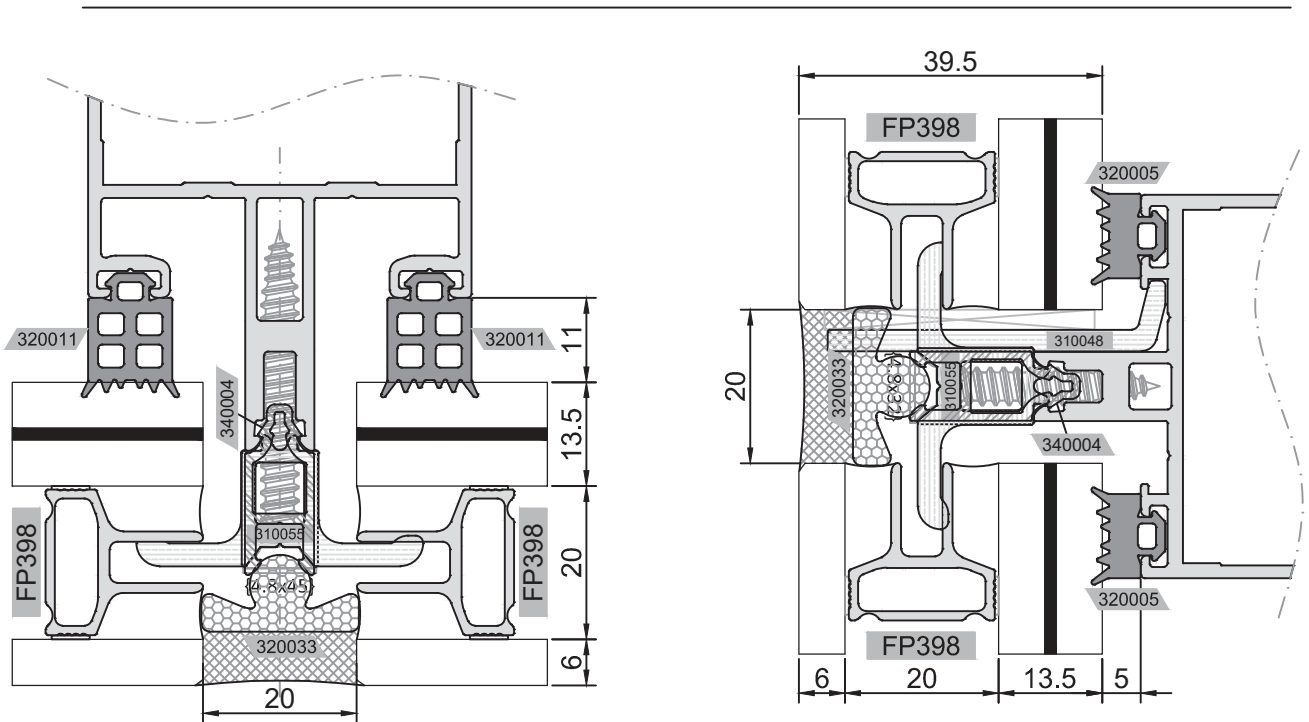
38,76mm



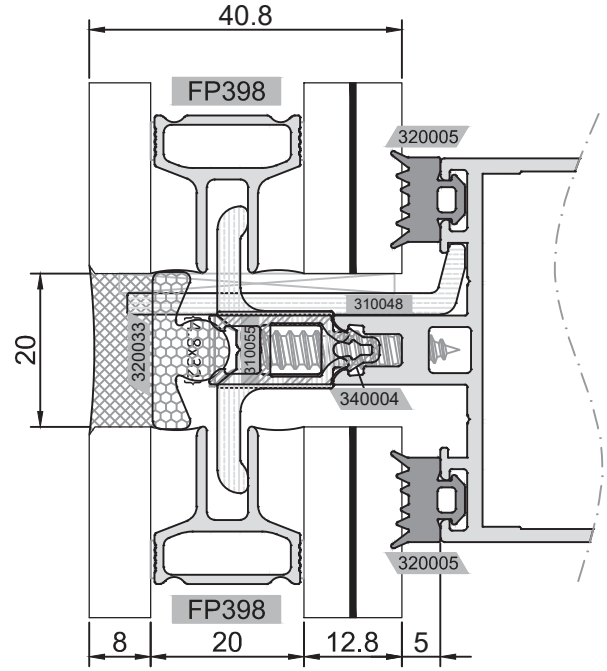
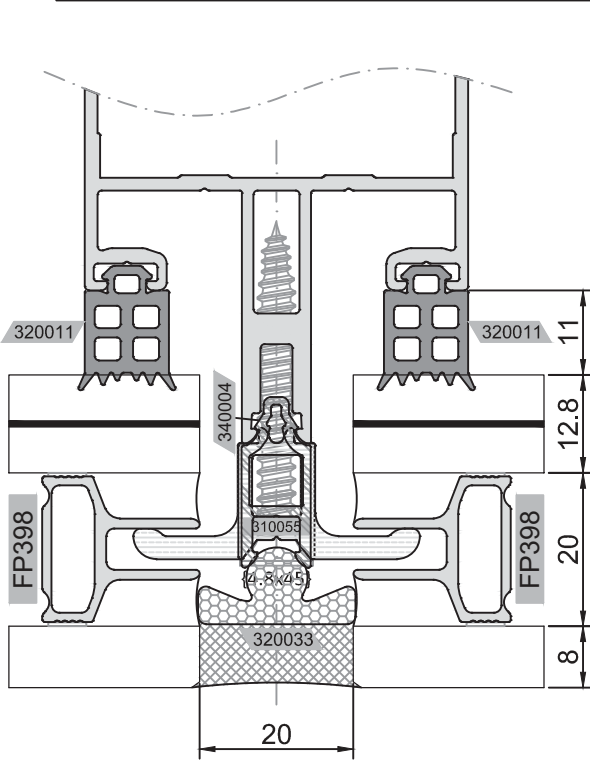
39,52mm



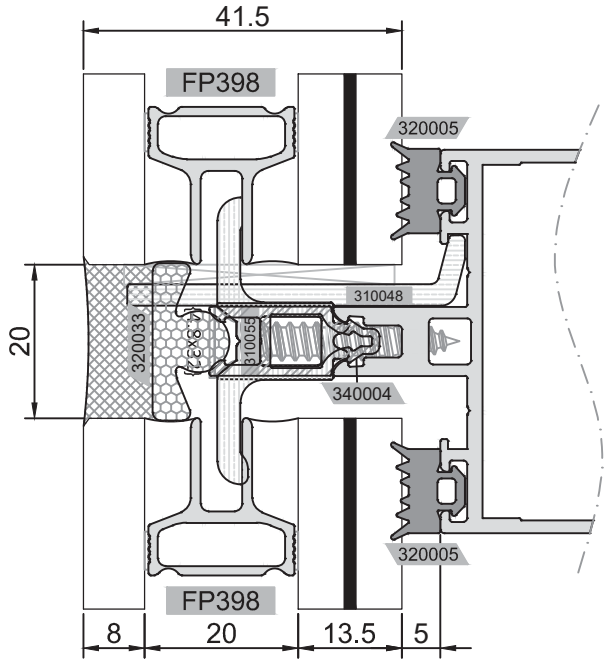
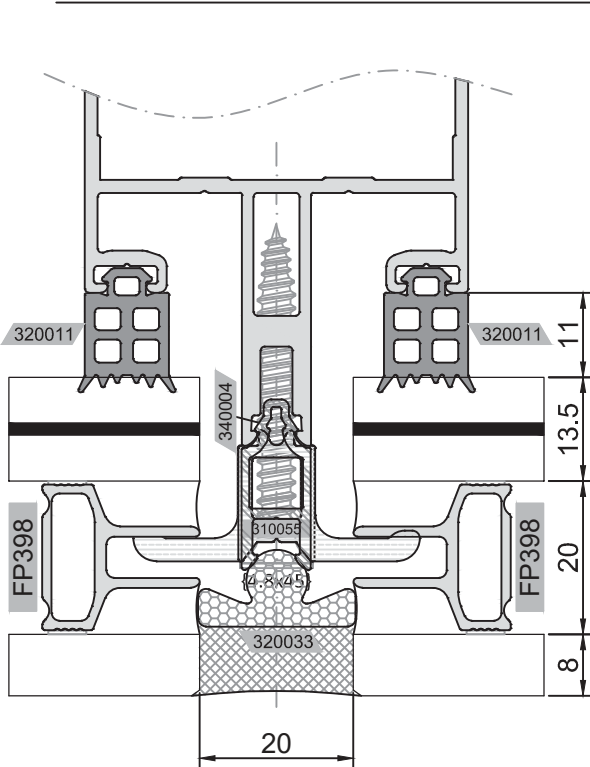
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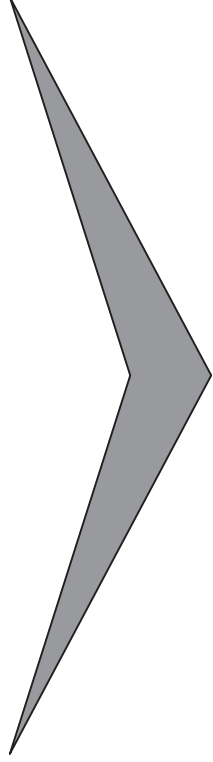
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41,52mm

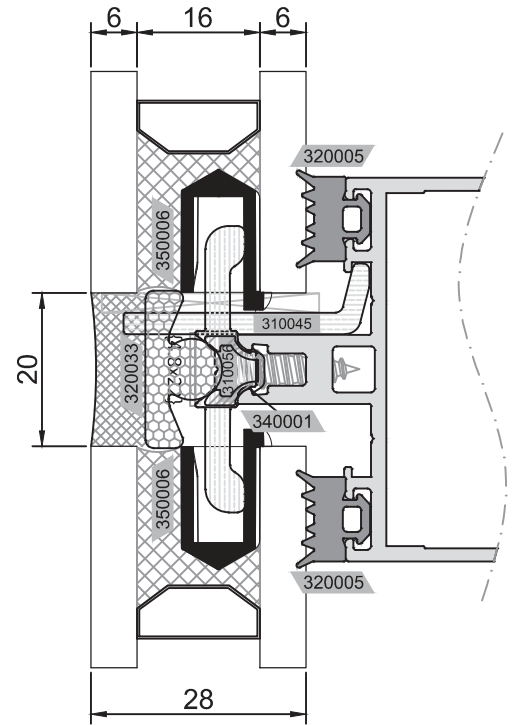
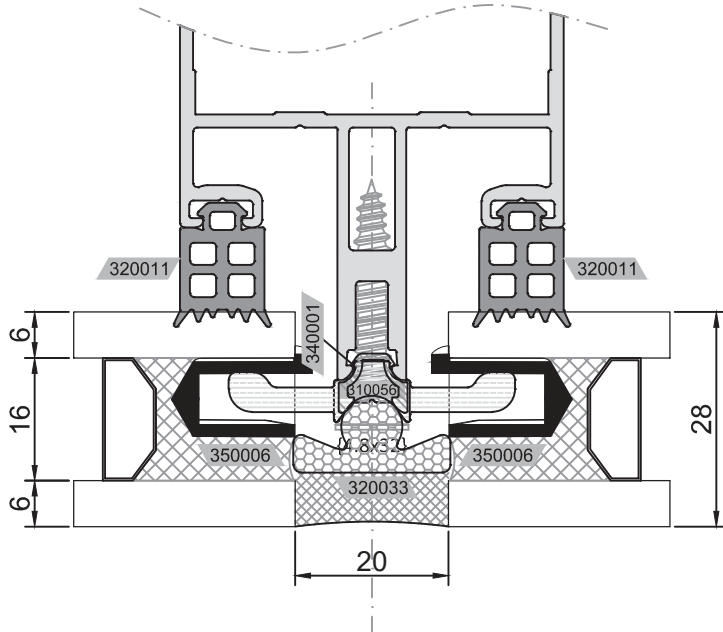


**CAM KALINLIKLARINA GÖRE
ENTEĞRE SİSTEM DETAYLARI**
**INTEGRATED CURTAIN WALL
DETAILS ACCORDING TO THE
GLASS THICKNESSES**

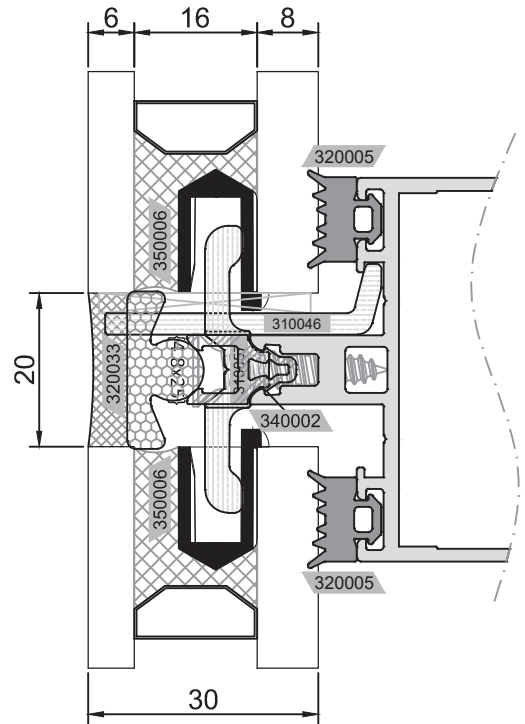
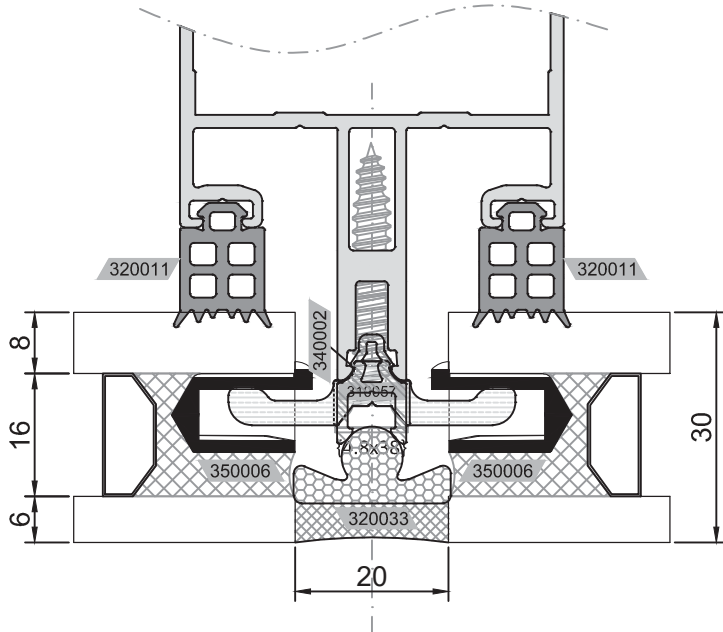


*** 16mm ÖZEL
SICAK KENAR
ISICAM ÇİTASI**
16mm SPECIAL
WARM EDGE
SPACER

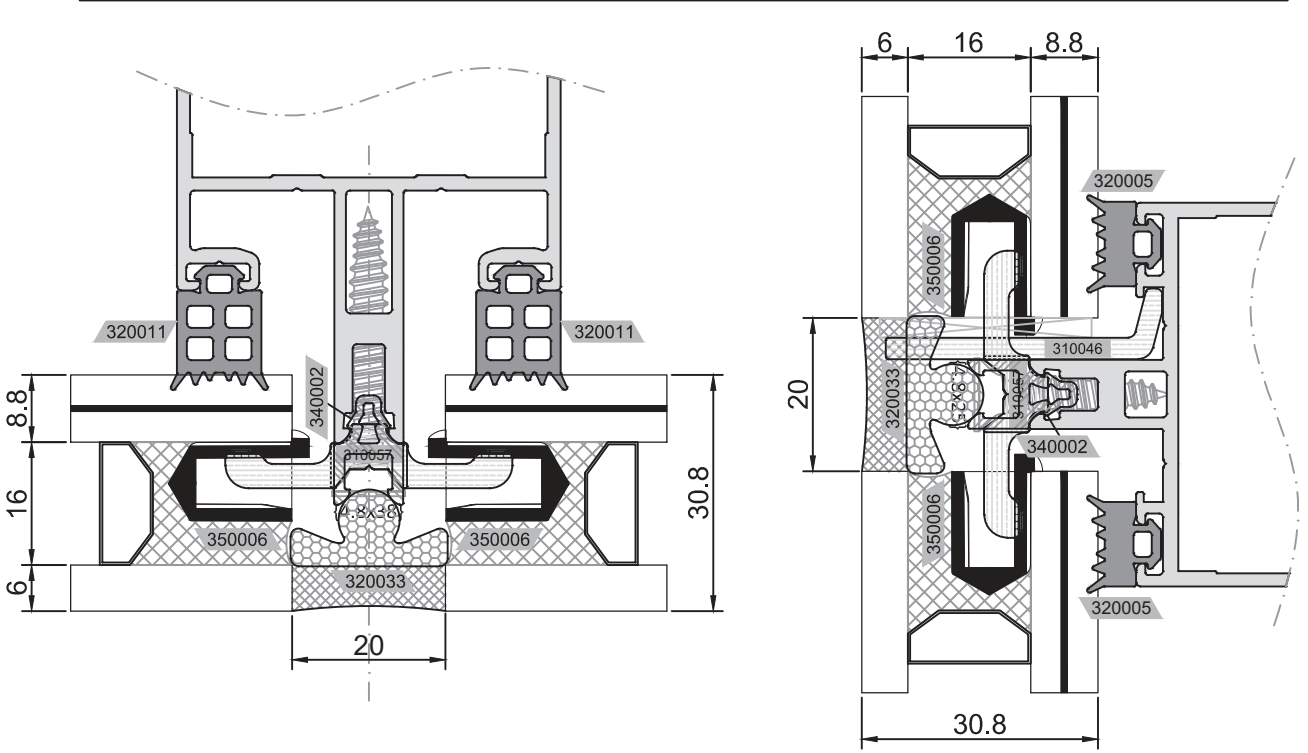
28mm



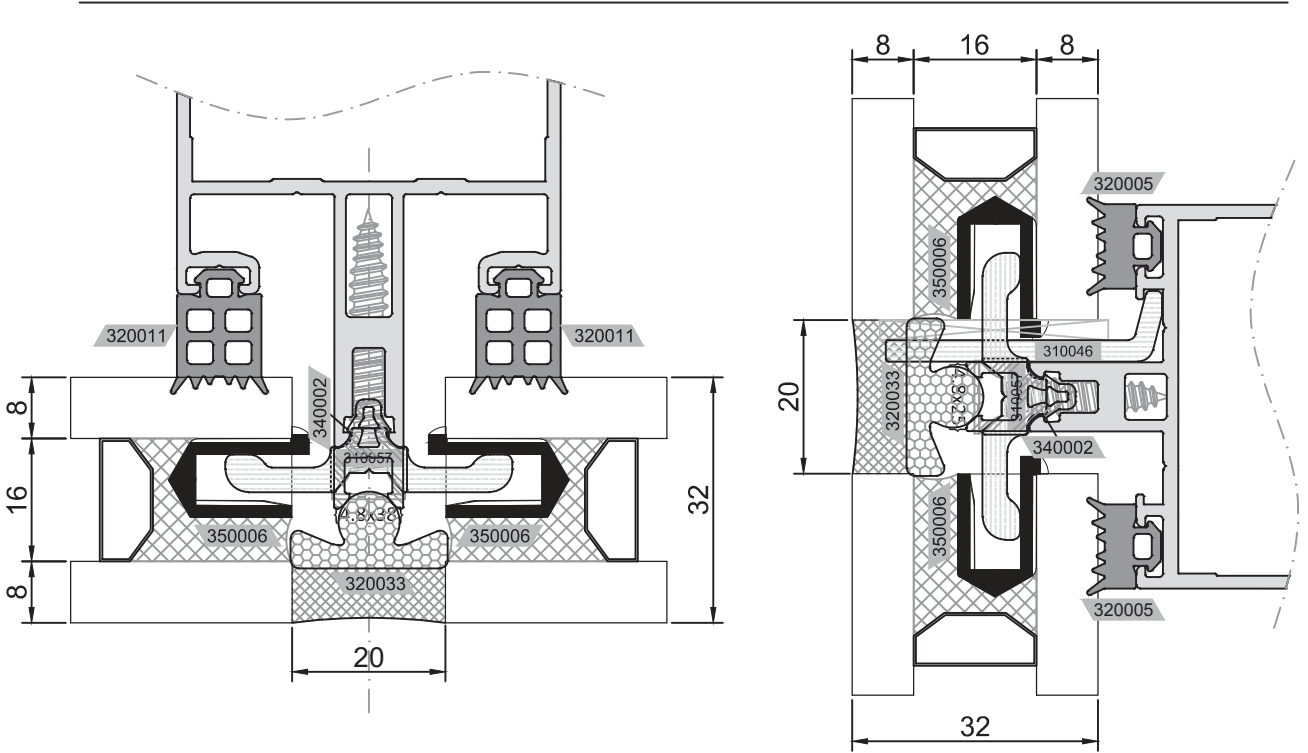
30mm



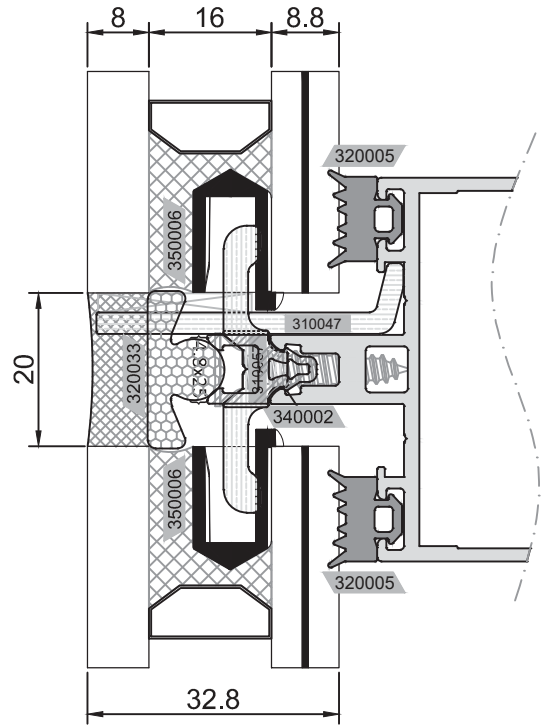
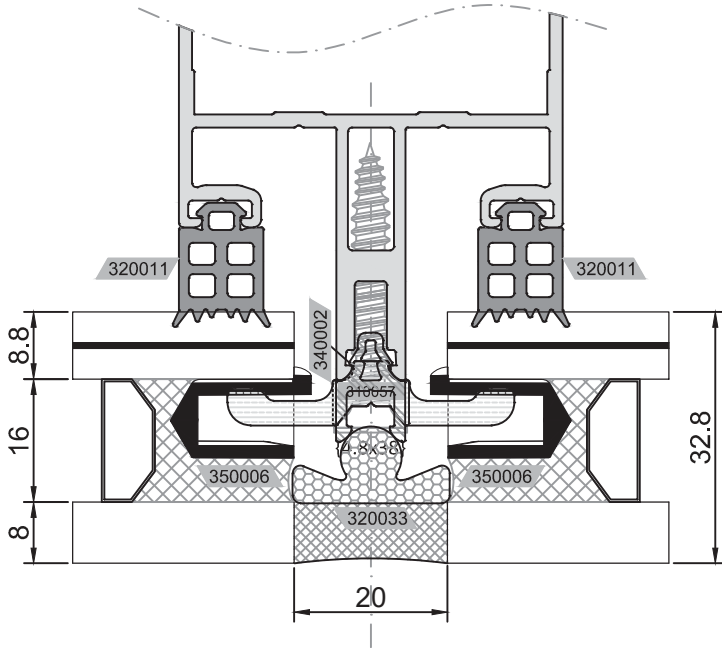
30,76mm



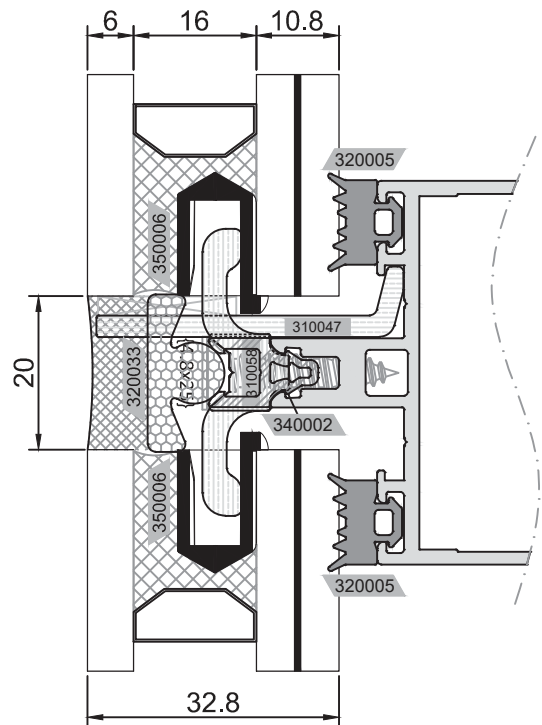
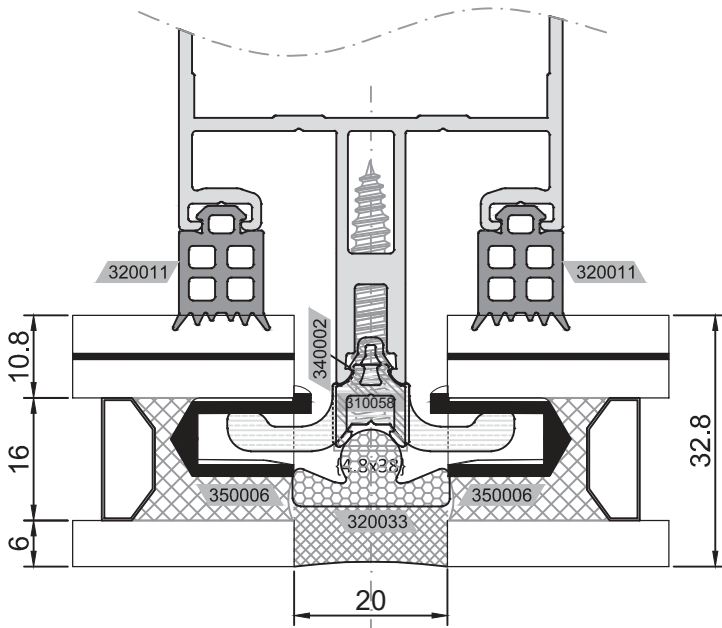
32mm



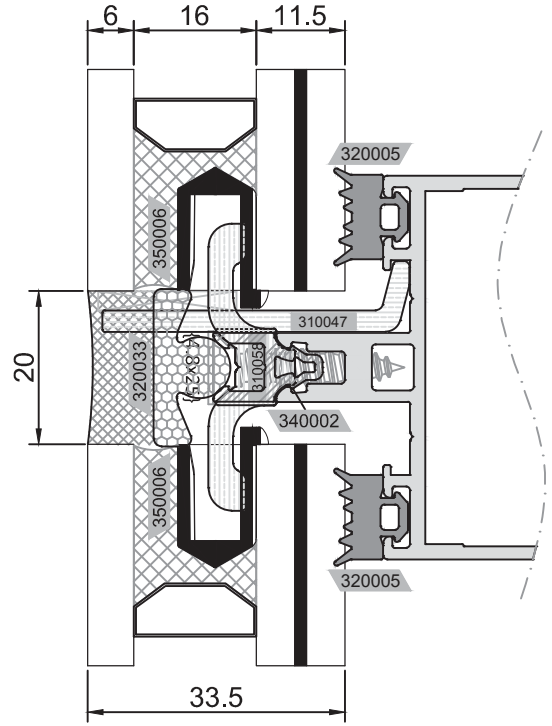
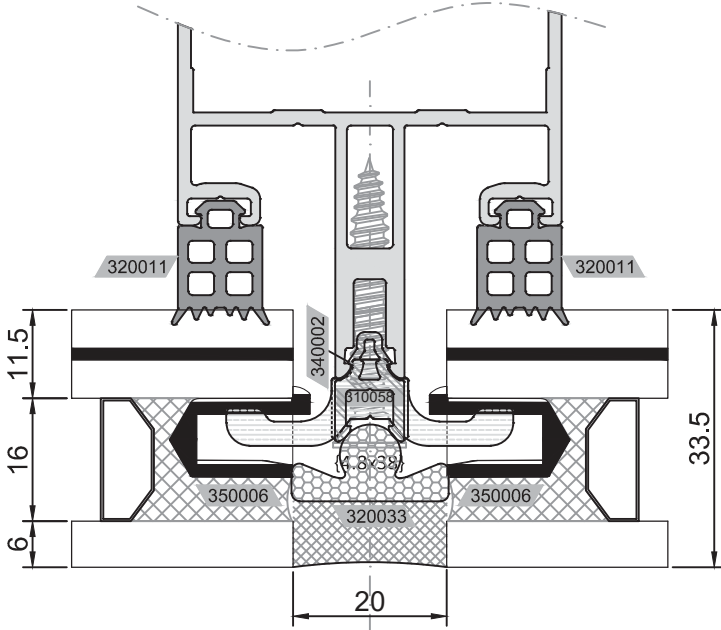
32,76mm



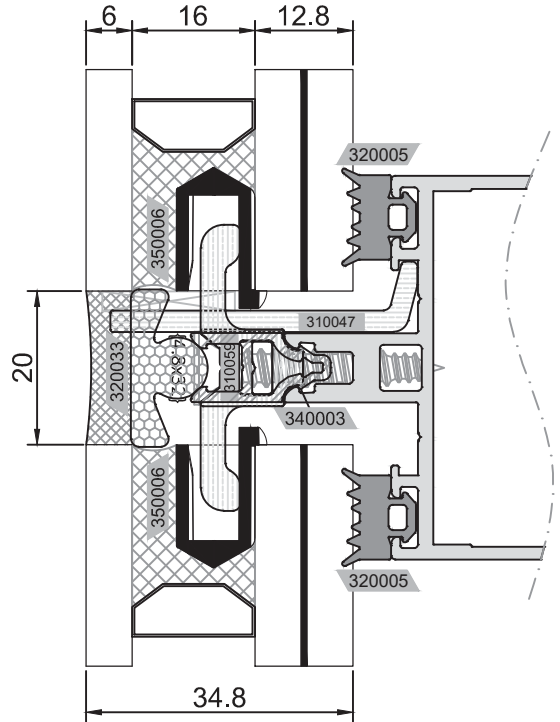
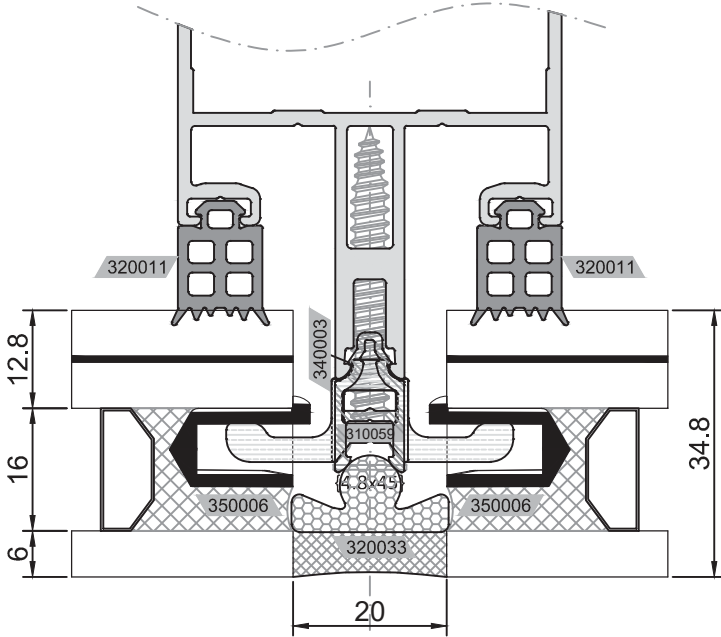
32,76mm



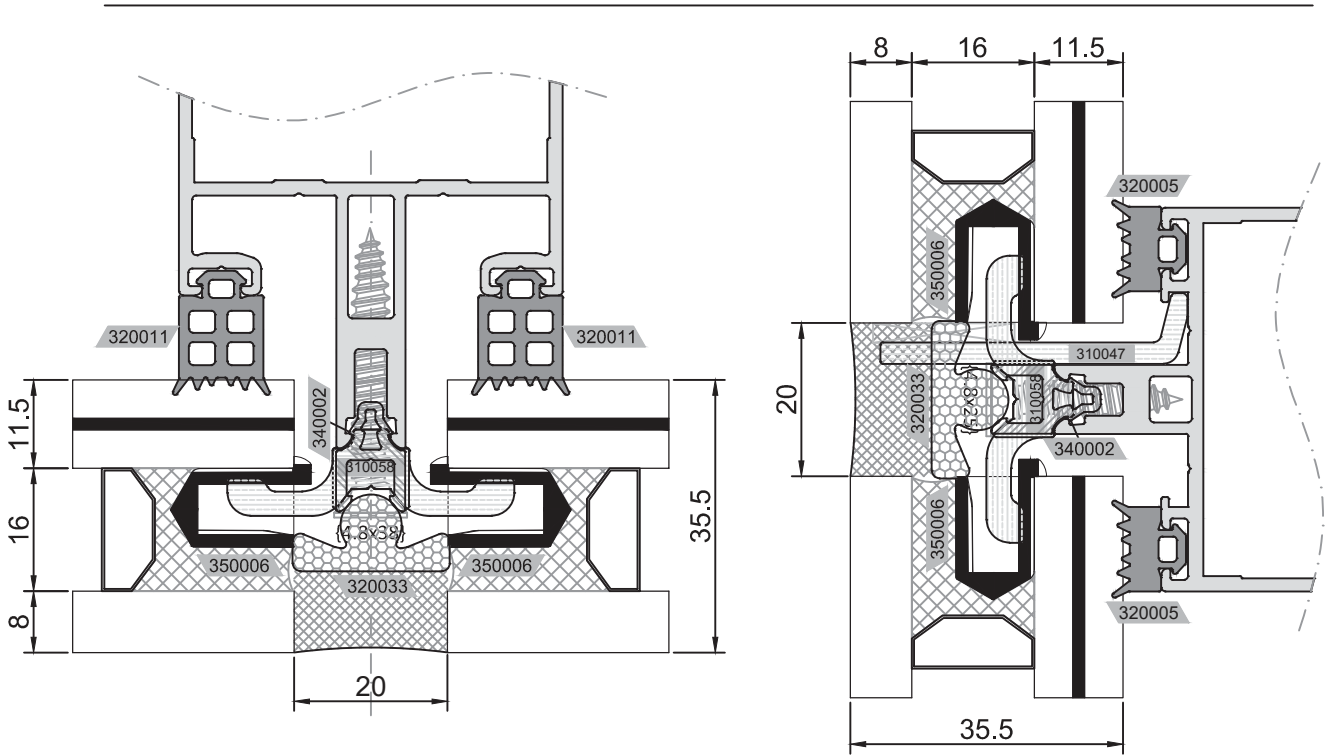
33,52mm



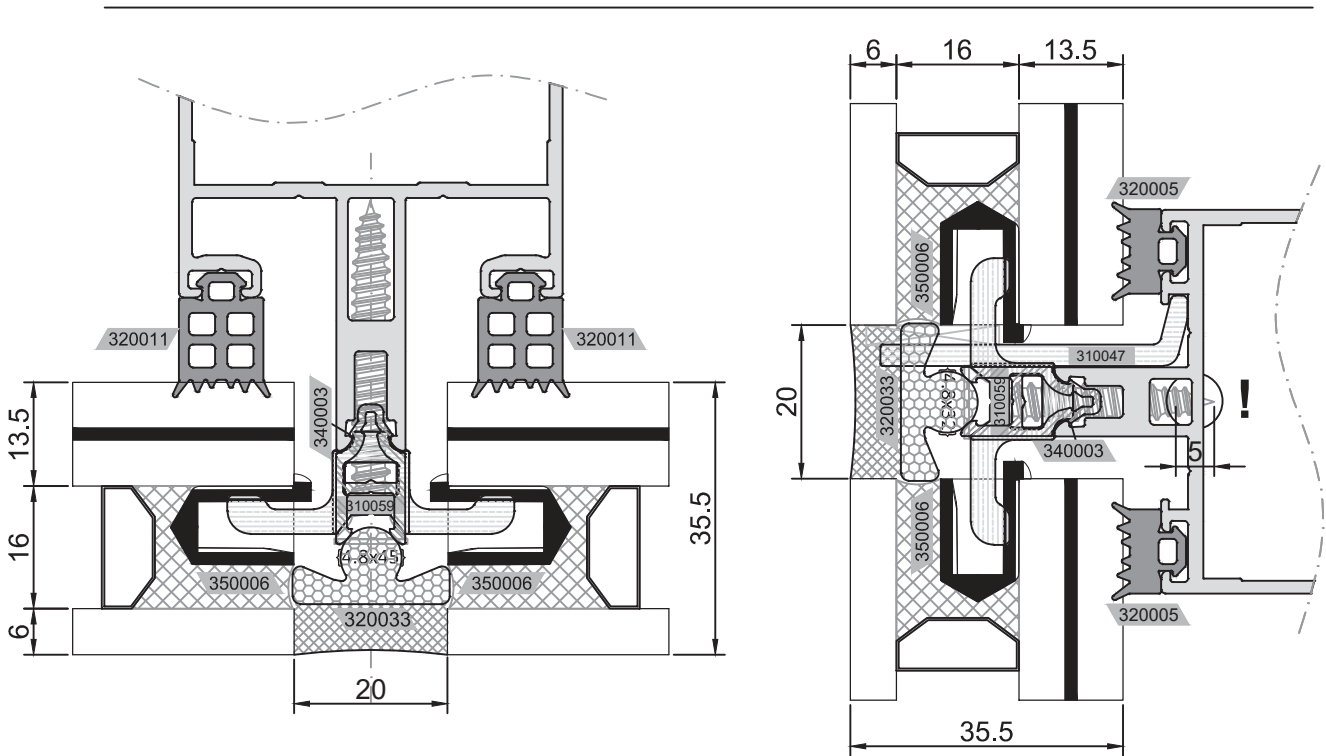
34,76mm



35,52mm

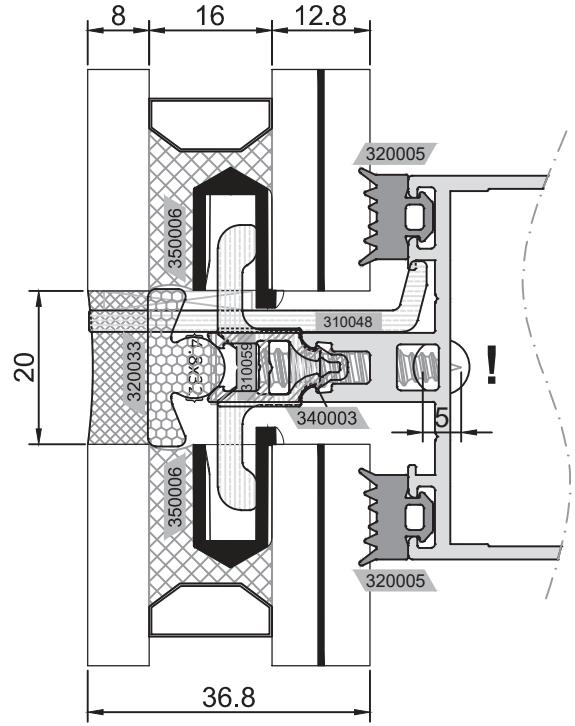
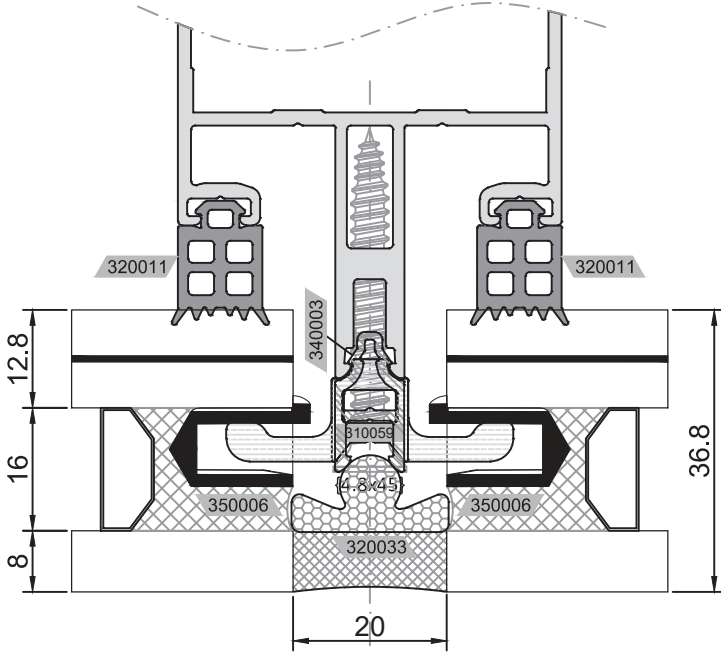


35,52mm



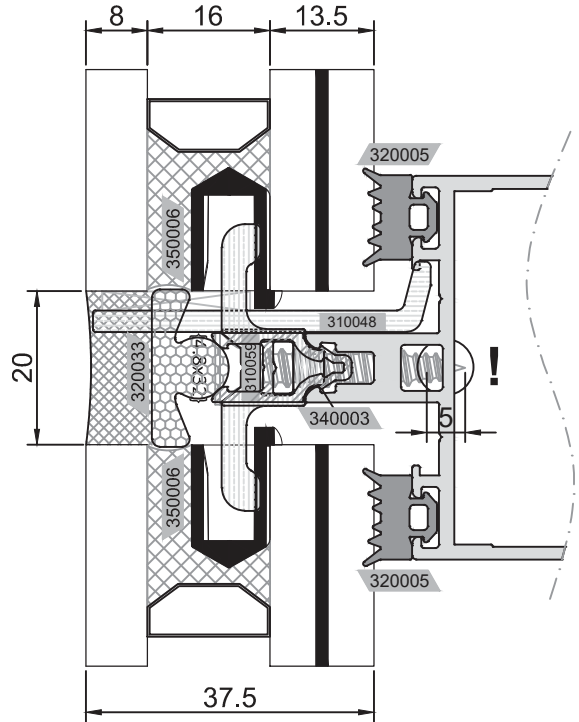
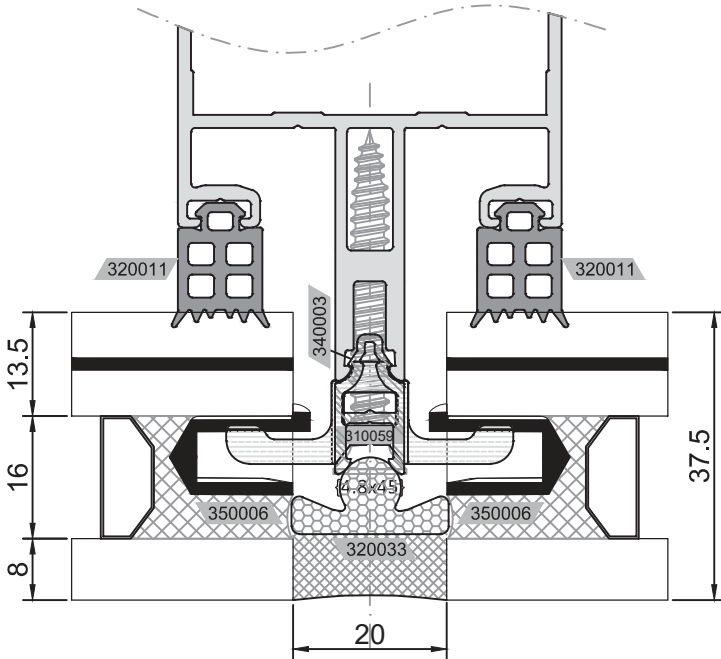
! Kertme / Notching

36,76mm



! Kertme / Notching

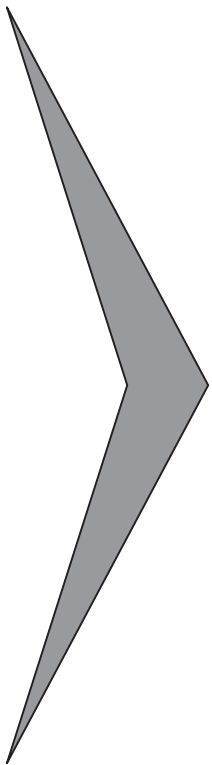
37,52mm



! Kertme / Notching

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ACCESSORY INDEX



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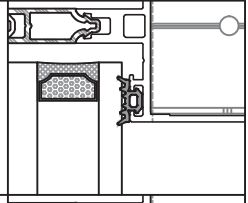

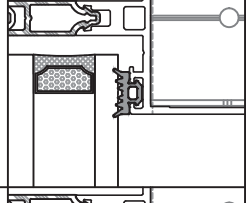

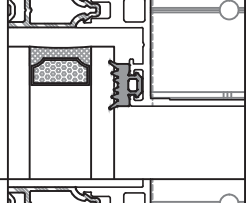

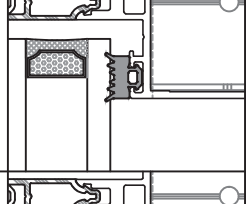

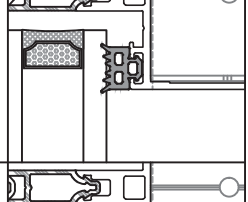

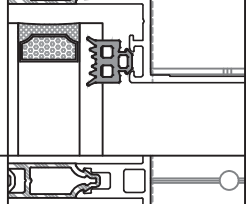

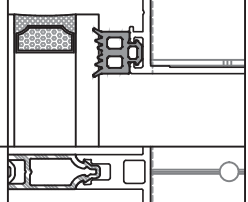

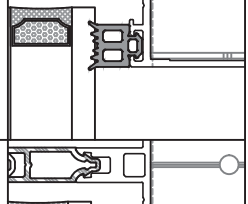

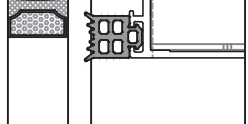
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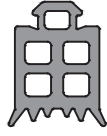
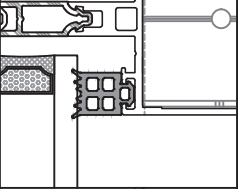
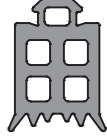
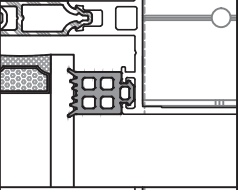
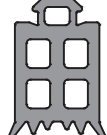
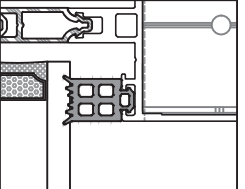
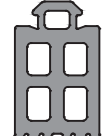
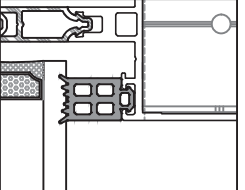
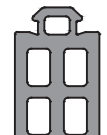
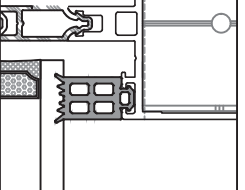

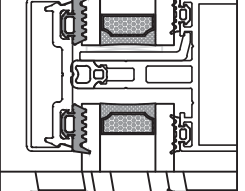

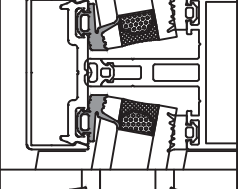

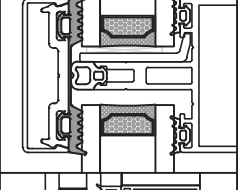

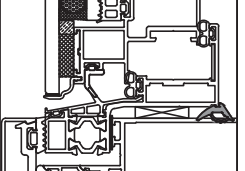
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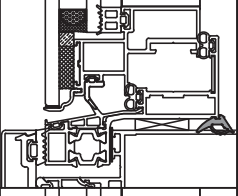

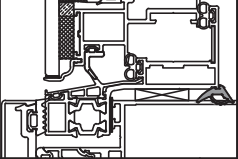

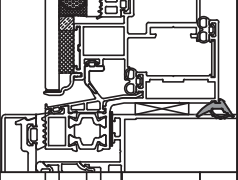

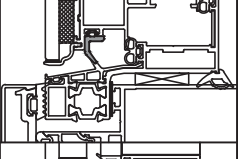

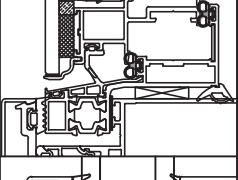

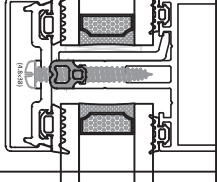

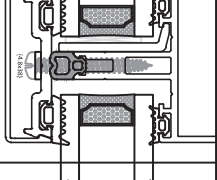

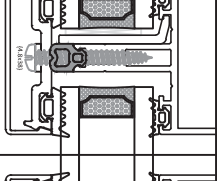

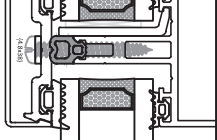
EPDM FİTİLLER / EPDM GASKETS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	çizim / DRAWING	TAKILMA BÖLGESİ / APPLICATION AREA
320002 İÇ BİNİ FİTİLİ 2 mm / INNER STEP GASKET 2 mm BİRİM AĞIRLIK / UNIT WEIGHT: 39 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 382 m		
320003 İÇ BİNİ FİTİLİ 3 mm / INNER STEP GASKET 3 mm BİRİM AĞIRLIK / UNIT WEIGHT: 52 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 288 m		
320004 İÇ BİNİ FİTİLİ 4 mm / INNER STEP GASKET 4 mm BİRİM AĞIRLIK / UNIT WEIGHT: 68 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 220 m		
320005 İÇ BİNİ FİTİLİ 5 mm / INNER STEP GASKET 5 mm BİRİM AĞIRLIK / UNIT WEIGHT: 82 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 183 m		
320006 İÇ BİNİ FİTİLİ 6 mm / INNER STEP GASKET 6 mm BİRİM AĞIRLIK / UNIT WEIGHT: 86 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 174 m		
320007 İÇ BİNİ FİTİLİ 7 mm / INNER STEP GASKET 7 mm BİRİM AĞIRLIK / UNIT WEIGHT: 91 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 166 m		
320008 İÇ BİNİ FİTİLİ 8 mm / INNER STEP GASKET 8 mm BİRİM AĞIRLIK / UNIT WEIGHT: 98 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 153 m		
320009 İÇ BİNİ FİTİLİ 9 mm / INNER STEP GASKET 9 mm BİRİM AĞIRLIK / UNIT WEIGHT: 105 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 143 m		
320010 İÇ BİNİ FİTİLİ 10 mm / INNER STEP GASKET 10 mm BİRİM AĞIRLIK / UNIT WEIGHT: 115 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 130 m		


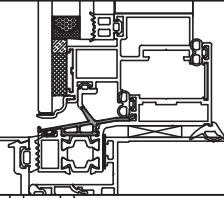

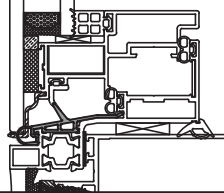

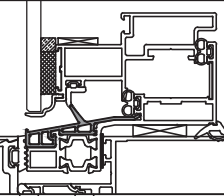
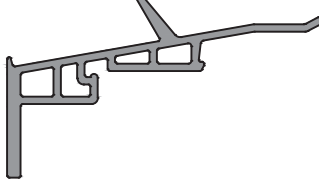
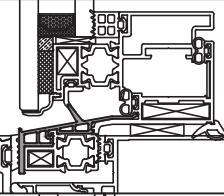
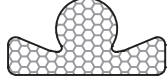
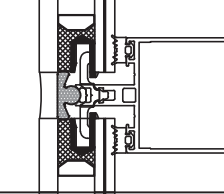

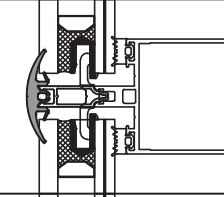

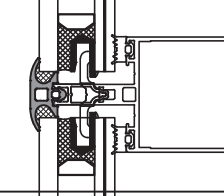

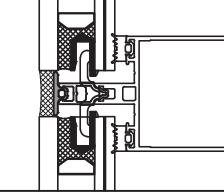
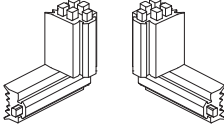

EPDM FİTİLLER / EPDM GASKETS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	ÇİZİM / DRAWING	TAKILMA BÖLGESİ / APPLICATION AREA
320011 <i>İÇ BİNİ FİTİLİ 11 mm / INNER STEP GASKET 11 mm</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 125,3 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 120 m</i>		
320012 <i>İÇ BİNİ FİTİLİ 12 mm / INNER STEP GASKET 12 mm</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 140,9 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 106 m</i>		
320013 <i>İÇ BİNİ FİTİLİ 13 mm / INNER STEP GASKET 13 mm</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 148,6 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 101m</i>		
320014 <i>İÇ BİNİ FİTİLİ 14 mm / INNER STEP GASKET 14 mm</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 157,7 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 95 m</i>		
320015 <i>İÇ BİNİ FİTİLİ 15 mm / INNER STEP GASKET 15 mm</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 142,6 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 91 m</i>		
320016 <i>DIŞ BİNİ FİTİLİ 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>		
320017 <i>AÇILI DIŞ CAM FİTİLİ / ANGULAR OUTER STEP GASKET</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 91 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 165 m</i>		
320018 <i>YEKPARE DIŞ BİNİ FİTİLİ / ONE PIECE STEP GASKET</i> <i>BİRİM AĞIRLIK / UNIT WEIGHT: 124 g/m</i> <i>KOLİ MİKTARI / PACKAGE QUANTITY: 121 m</i>		
320019 <i>KAMA FİTİLİ 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>		

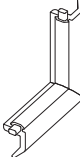


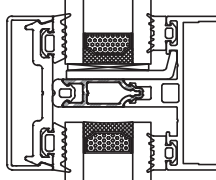
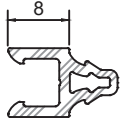
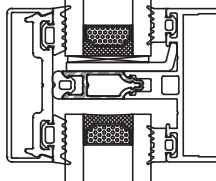
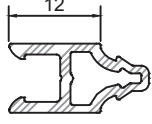
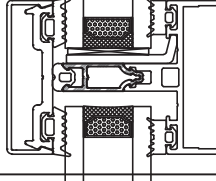
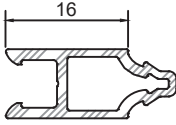
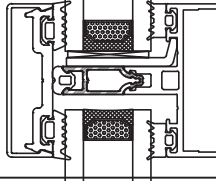
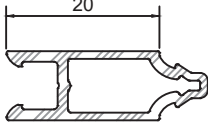
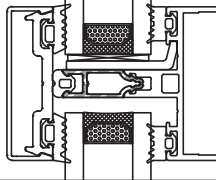
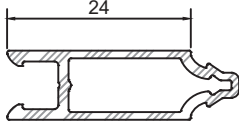
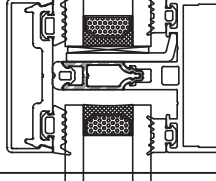
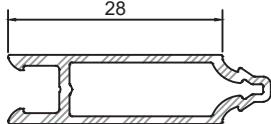
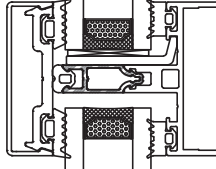
EPDM FİTİLLER / EPDM GASKETS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	çizim / DRAWING	TAKILMA BÖLGESİ / APPLICATION AREA
320020 KAMA FİTİLİ 4 mm / GLAZING SUPPORT GASKET 4 mm BİRİM AĞIRLIK / UNIT WEIGHT: 54 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 280 m		
320021 KAMA FİTİLİ 5 mm / GLAZING SUPPORT GASKET 5 mm BİRİM AĞIRLIK / UNIT WEIGHT: 67 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 224 m		
320022 KAMA FİTİLİ 6 mm / GLAZING SUPPORT GASKET 6 mm BİRİM AĞIRLIK / UNIT WEIGHT: 89 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 168 m		
320023 KANAT DESTEK FİTİLİ / SUPPORT GASKET FOR VENT BİRİM AĞIRLIK / UNIT WEIGHT: 54 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 275 m		
320024 KANAT İÇ BİNİ FİTİLİ / INNER STEP GASKET FOR VENT BİRİM AĞIRLIK / UNIT WEIGHT: 40 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 370 m		
320025 TAŞIYICI ÖN FİTİL 3mm / MULLION FRONT GASKET 3mm BİRİM AĞIRLIK / UNIT WEIGHT: 47 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 316 m		
320026 TAŞIYICI ÖN FİTİL 4mm / MULLION FRONT GASKET 4mm BİRİM AĞIRLIK / UNIT WEIGHT: 56 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 266 m		
320027 TAŞIYICI ÖN FİTİL 5mm / MULLION FRONT GASKET 5mm BİRİM AĞIRLIK / UNIT WEIGHT: 58 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 260 m		
320028 TAŞIYICI ÖN FİTİL 7mm / MULLION FRONT GASKET 7mm BİRİM AĞIRLIK / UNIT WEIGHT: 71 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 212 m		

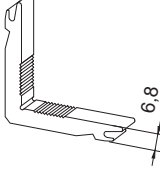
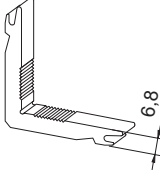
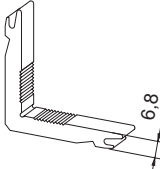
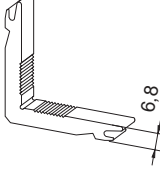
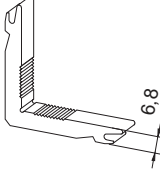
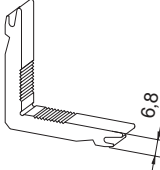
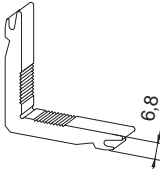
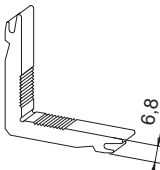
EPDM FİTİLLER / EPDM GASKETS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	ÇİZİM / DRAWING	TAKILMA BÖLGESİ / APPLICATION AREA
320029 KANAT ÇARŞAF FİTİLİ - 1 / SHEET GASKET FOR VENT BİRİM AĞIRLIK / UNIT WEIGHT: 125 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 120 m		
320030 KANAT ÇARŞAF FİTİLİ - 2 / SHEET GASKET FOR VENT BİRİM AĞIRLIK / UNIT WEIGHT: 153 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 98 m		
320031 KANAT ÇARŞAF FİTİLİ - 3 / SHEET GASKET FOR VENT BİRİM AĞIRLIK / UNIT WEIGHT: 185 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 81 m		
320032 KANAT ÇARŞAF FİTİLİ - 4 / SHEET GASKET FOR VENT BİRİM AĞIRLIK / UNIT WEIGHT: 229 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 66 m		
320033 POLİETİLEN DERZ FİTİLİ / POLYETHYLENE SEAM GASKET BİRİM AĞIRLIK / UNIT WEIGHT: 30 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 500 m		
320034 İÇ MEKAN DERZ KAPATMA FİTİLİ / INSIDE SEAM GASKET BİRİM AĞIRLIK / UNIT WEIGHT: 204 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 73 m		
320035 SİLİKON DERZ KAPATMA FİTİLİ / SILICONE SEAM GASKET BİRİM AĞIRLIK / UNIT WEIGHT: 200 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 75 m		
320057 SİLİKON DERZ KAPATMA FİTİLİ / SILICONE SEAM GASKET BİRİM AĞIRLIK / UNIT WEIGHT: 83 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 180 m		
330001 VULKANİZE KÖŞE PARÇASI / VULCANISED CORNER PIECE İLİŞKİLİ FİTİLLER / RELATED GASKETS: 320005 & 320011		

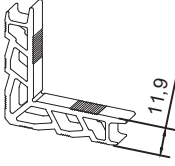
ISI BARIYERLERİ / INSULATION BARS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	çizim / DRAWING	TAKILMA BÖLGESİ / APPLICATION AREA
330002 VULKANİZE KÖŞE PARÇASI / VULCANISED CORNER PIECE İLİŞKİLİ FİTİL / RELATED GASKET: 320023		
330003 VULKANİZE KÖŞE PARÇASI / VULCANISED CORNER PIECE İLİŞKİLİ FİTİL / RELATED GASKET: 320024		
340001 TAŞIYICI ÖN İZOLASYON (PVC) 4 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		
340002 TAŞIYICI ÖN İZOLASYON (PVC) 8 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		
340003 TAŞIYICI ÖN İZOLASYON (PVC) 12 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		
340004 TAŞIYICI ÖN İZOLASYON (PVC) 16 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		
340005 TAŞIYICI ÖN İZOLASYON (PVC) 20 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		
340006 TAŞIYICI ÖN İZOLASYON (PVC) 24 MM MULLION OR TRANSOM FRONT ISOLATOR (PVC) MİKTAR / QUANTITY: BOY 6 m /Adet		
340007 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
310001 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		
310002 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		
310003 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		
310004 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		
310005 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		
310006 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		
310007 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		
310008 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP520 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.		

KÖŞE TAKOZLARI / CORNER CLEATS

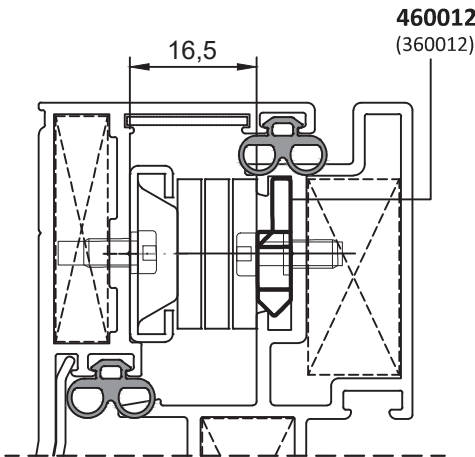
AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	çizim / DRAWING	KESİM ÖLÇÜSÜ / CUTTING DIMENSION
310009 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP521 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		
310010 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP521 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		
310011 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP521 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		
310012 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP521 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		
310013 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP521 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		
310014 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP521 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		
310015 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP521 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		
310016 KÖŞE TAKOZU / CORNER CLEAT PROFİL NUMARASI / PROFILE NUMBER: FP521 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,367 kg/m.		
350001 KÖŞE ÇAVUŞU / CORNET ALIGNMENT MALZEME / MATERIAL: POLYAMID		

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 YÜKSEKLİĞİ MAX. VENT HEIGHT (mm)	MAKS. KANAT AĞIRLIĞI MAX. VENT WEIGHT (kg)
470001	370001	10"	255	35°	700	50
470002	370002	12"	305	30°/35°	800	60
470003	370003	14"	355	30°/35°	1000	70
470004	370004	16"	405	25°/30°	1200	90
470005	370005	18"	460	25°/30°	1400	100
470006	370006	20"	505	20°/25°	1600	135
470007	370007	22"	560	20°/25°	1700	140
470008	370008	24"	610	20°/25°	1800	145
470009	370009	26"	660	10°/15°/20°	2000	155
470010	370010	28"	710	10°/15°/20°	2500	180

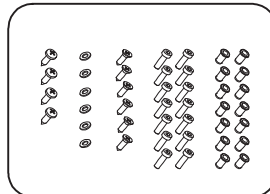
! TABLODA BELİRTİLEN TEKNİK DEĞERLER, İTHAL ÜRÜNLERE AİTTİR. YERLİ ALTERNATİFLERİ İÇİN DEĞERLER FARKLI OLABİLİR.
TECHNICAL VALUES ARE BELONG TO IMPORTED PRODUCTS AS SHOWN AT THE TABLE. VALUES CAN BE DIFFERENT AT THE NATIVE ALTERNATIVES.



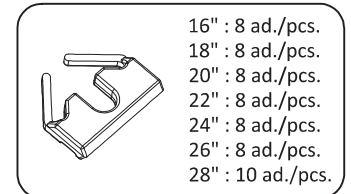
460012
(360012)

* STANDART AKSESUAR SETİNDE YER ALMAYAN 460012 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 460012 WHICH DOESN'T INCLUDE AT STANDARD ACCESSORY KIT, MAXIMUM CARRIAGE CAPACITY FIXED TO 180 KG FOR ALL FRICTION STAY TYPES.

460012 (360012)
METRİK PERÇİN VE VİDA SETİ
METRIC PIN AND SCREW KIT



450007 (350007)
MAKAS ALTI BEŞLEME TAKOZU (PVC)
FRICTION STAY REINFORCEMENT PLUG (PVC)



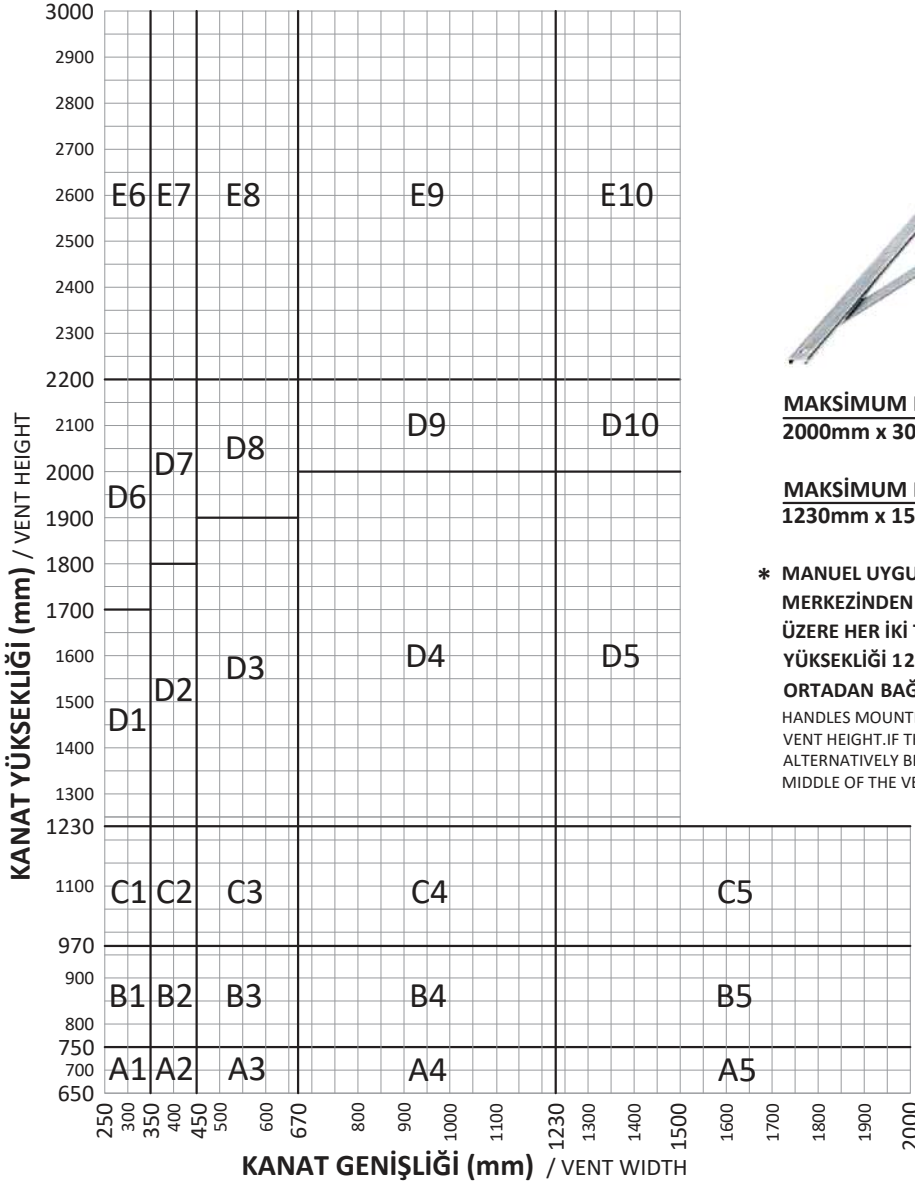
16" : 8 ad./pcs.
18" : 8 ad./pcs.
20" : 8 ad./pcs.
22" : 8 ad./pcs.
24" : 8 ad./pcs.
26" : 8 ad./pcs.
28" : 10 ad./pcs.

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

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

PARALEL MAKASLAR / PARALEL FRICTION STAYS

MAKAS SEÇİM DİYAGRAMI / FRICTION STAY SELECTION DIAGRAM

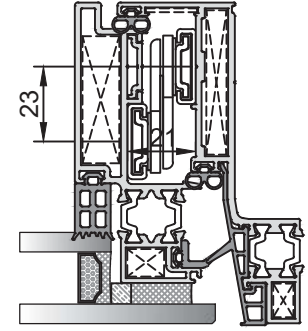


MAKSİMUM MOTORLU UYGULAMA ÖLÇÜSÜ:
2000mm x 3000mm

MAKSİMUM MANUEL UYGULAMA ÖLÇÜSÜ:
1230mm x 1500mm

* MANUEL UYGULAMADA KOLLAR KANAT YÜKSEKLİĞİNİN MERKEZİNDEN +/- 15% MESAFESİNE SAĞ VE SOL OLMAK ÜZERE HER İKİ TARAFTA 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 VENT 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 470026	1 x 470030	2 x 470034	100	1	470038	-
B	1 x 470027	1 x 470031	2 x 470035	100	2	470030	-
C	1 x 470028	1 x 470032	2 x 470036	200	3	470031	-
D	1 x 470029	1 x 470033	2 x 470037	200	4	470032	-
E	2 x 470029	2 x 470033	4 x 470037	200	5	470033	-
* 470038 KONTROL MAKASLARI KULLANILIRKEN 470035 STOPLAMA YERİNE 470034 KULLANILIR. / WHEN USING 470038 CONTROL FRICTION STAYS, REPLACE 470035 STOPERS WITH 470034 STOPERS.					6	470038	470038
* MANUEL UYGULAMALAR İÇİN KANATLARIN MAKSİMUM AÇILMA MESAFESİ 150 mm 'DİR. / MAXIMUM OPENING DISTANCE FOR VENTS ARE 150 mm FOR MANUAL APPLICATIONS.					7	470030	470030
* PARALEL MAKAS FİYATLANDIRMASI İÇİN LÜTFEN SİSTEM ALÜMİNYUM'A BAŞVURUNUZ. / FOR PARALEL FRICTION STAY PRICING DETAILS PLEASE CONTACT WITH SİSTEM ALUMİNYUM.					8	470031	470031
					9	470032	470032
					10	470033	470033

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

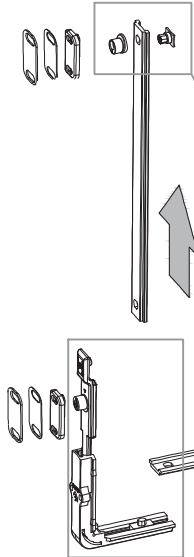
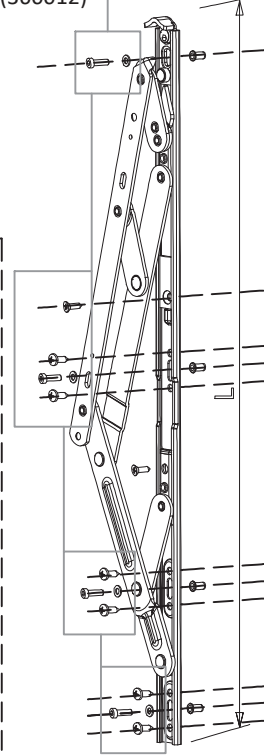
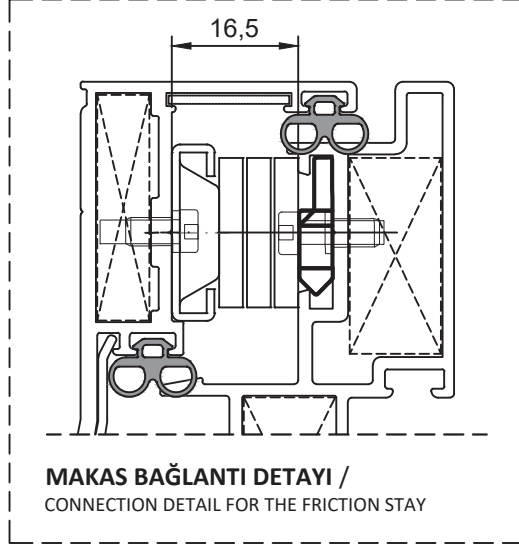
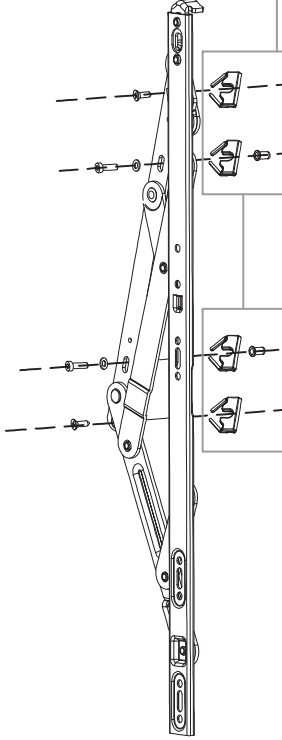
! BU SAYFADA BELİRTİLEN AKSESUAR GÖRSELLERİ TEMSİLİDİR.
ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

KANAT KİTLEME AKSESUARLARI / VENT LOCKING ACCESSORIES

ÜST ÇEKTİRME PARÇASI / TOP FASTENING PIECE: **470020**
(370020)

MAKAS ALTI BESLEME TAKOZU : **450007**
FRICTION STAY REINFORCEMENT PLUG (350007)
(OPSİYONEL / OPTIONAL)

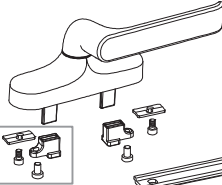
METRİK PERÇİN VE VİDA SETİ : **460012**
METRIC PIN AND SCREW KIT (360012)
(OPSİYONEL / OPTIONAL)



KÖŞE DÖNME / CORNER DRIVE: **470018**
(370018)

KOL BAĞLANTILARI / HANDLE CONNECTIONS: **470012**
(370012)

CEPHE KOLU : **470011**
FACADE HANDLE (370011)



SABİT PİM / FIXED PIN: **470014**
(370014)

AYARLI PİM / ADJUSTABLE PIN: **470015**
(370015)

SABİT KARŞILIK / FIXED STRIKER: **470016**
(370016)

AYARLI KARŞILIK / ADJUSTABLE STRIKER: **470017**
(370017)

* () 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

480001 (380001)

KANAT YÜKSEKLİĞİ
VENT HEIGHT
600 - 1200 mm

KANAT GENİŞLİĞİ
VENT WIDTH
600 - 1000 mm

480002 (380002)

KANAT YÜKSEKLİĞİ
VENT HEIGHT
1201 - 1600 mm

KANAT GENİŞLİĞİ
VENT WIDTH
1001 - 1200 mm

480003 (380003)

KANAT YÜKSEKLİĞİ
VENT HEIGHT
1601 - 1800 mm

KANAT GENİŞLİĞİ
VENT WIDTH
1201 - 1600 mm

480004 (380004)

KANAT YÜKSEKLİĞİ
VENT HEIGHT
1801 - 2500 mm

KANAT GENİŞLİĞİ
VENT WIDTH
1601 - 2000 mm

SET KODU / KIT CODE :			480001 (380001)	480002 (380002)	480003 (380003)	480004 (380004)
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
470011	370011	CEPHE KOLU CURTAIN WALL HANDLE	1 ADET / PCS.	1 ADET / PCS.	1 ADET / PCS.	1 ADET / PCS.
470012	370012	KOL BAĞLANTILARI HANDLE CONNECTIONS	2 ADET / PCS.	2 ADET / PCS.	2 ADET / PCS.	2 ADET / PCS.
470015	370015	AYARLI PİM ADJUSTABLE PIN	2 ADET / PCS.	4 ADET / PCS.	6 ADET / PCS.	10 ADET / PCS.
470017	370017	AYARLI KARŞILIK ADJUSTABLE STRIKER	2 ADET / PCS.	6 ADET / PCS.	8 ADET / PCS.	12 ADET / PCS.
470018	370018	KÖŞE DÖNME CORNER DRIVE	-	2 ADET / PCS.	2 ADET / PCS.	2 ADET / PCS.
470020	370020	ÜST ÇEKTİRME 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 TEMSİLDİR.
ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	GÖRSELLER / IMAGES
<p>470011 (370011) CEPHE KOLU / FACADE HANDLE</p>	
<p>470051 (370051) ANAHTARLI CEPHE KOLU / FACADE HANDLE WITH KEY</p>	
<p>470052 (370052) SÖKÜLEBİLİR CEPHE KOLU MEKANİZMASI / DETACHABLE FACADE CREMONE MECANISM</p>	
<p>470053 (370053) SÖKÜLEBİLİR CEPHE KOLU SAPI / DETACHABLE FACADE HANDLE</p>	
<p>470012 (370012) CEPHE KOLU BAĞLANTI ELEMANI / FACADE HANDLE FASTENING ELEMENT</p>	
<p>470013 (370013) CEPHE KOLU BAĞLANTI ELEMANI / FACADE HANDLE FASTENING ELEMENT</p>	
<p>470014 (370014) SABİT PİM / FIXED PIN</p>	

() 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
<p>470015 (370015) AYARLI PİM / ADJUSTABLE PIN</p>	
<p>470016 (370016) SABİT KARŞILIK / FIXED STRIKER</p>	
<p>470017 (370017) AYARLI KARŞILIK / ADJUSTABLE STRIKER</p>	
<p>470018 (370018) KÖŞE DÖNÜŞ AKTARMA PARÇASI / CORNER TRANSFER DEVICE</p>	
<p>470019 (370019) CEPHE MAKASLARI İÇİN YÜKSEKLİK AYAR PARÇASI / HEIGHT ADJUSTMENT PIECE FOR FRICTION STAYS</p>	

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

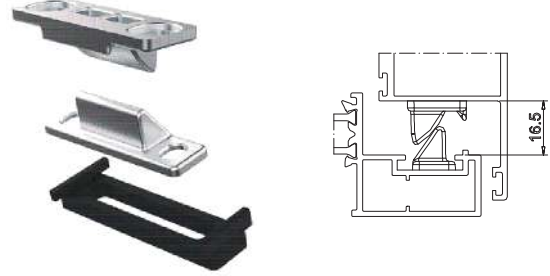
! BU SAYFADA BELİRTİLEN AKSESUAR GÖRSELLERİ TEMSİLİDİR.
ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

AKSESUAR KODU VE ÜRÜN BİLGİLERİ /
ACCESSORY CODE AND PRODUCT DESCRIPTION

GÖRSELLER / IMAGES

470020 (370020)

ÜST ÇEKTİRME PARÇASI /
TOP FASTENING PIECE



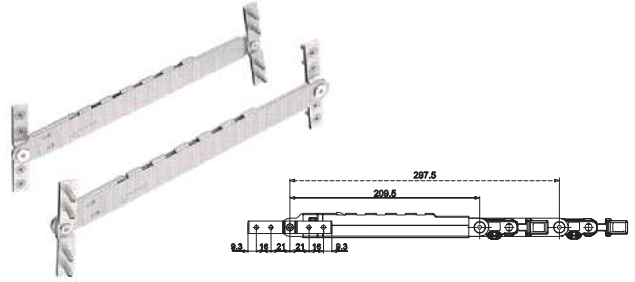
470021 (370021)

LİMİTLEME MAKASI /
LIMITOR ARM



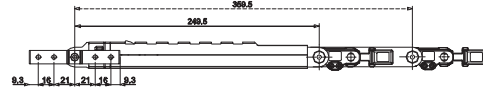
470023 (370023)

TELESKOPIK MAKAS (KÜÇÜK) /
TELESCOPIC ARM (SMALL)



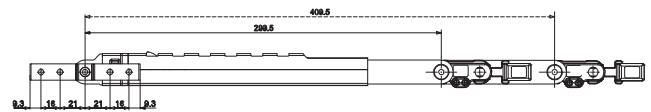
470024 (370024)

TELESKOPIK MAKAS (ORTA) /
TELESCOPIC ARM (MEDIUM)



470025 (370025)

TELESKOPIK MAKAS (BÜYÜK) /
TELESCOPIC ARM (LARGE)



* () 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>470039 - SİYAH / BLACK 470040 - GRİ / GRAY VASİSTAS VE İŞIKLIK KANATLARI İÇİN AÇMA MOTORU / OPENING MOTOR FOR BOTTOM-HUNG & SKYLIGHT VENTS</p>	<p>ALUTECH SMART (230V AC) MOTOR Ayarlanabilir Açılma Mesafesi : 180 mm ile 380 mm İtme Gücü: 200 N Cekme Gücü: 250 N Çalışma Hızı: 18 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot: 50 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelede ...: 38 kg Kanat Eni: 600 - 1250 mm Maksimum Kanat Boyu: 2600 mm</p>
 <p>470041 - SİYAH / BLACK 470042 - GRİ / GRAY VASİSTAS VE İŞIKLIK KANATLARI İÇİN AÇMA MOTORU / OPENING MOTOR FOR BOTTOM-HUNG & SKYLIGHT VENTS</p>	<p>ALUTECH SMART (24V DC) MOTOR Ayarlanabilir Açılma Mesafesi : 180 mm ile 380 mm İtme Gücü: 200 N Cekme Gücü: 250 N Çalışma Hızı: 18 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot: 50 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelede ...: 38 kg Kanat Eni: 600 - 1250 mm Maksimum Kanat Boyu: 2600 mm</p>
 <p>470043 - SİYAH / BLACK 470044 - GRİ / GRAY PARALEL, VASİSTAS VE İŞIKLIK KANATLARI İÇİN MOTOR / MOTOR FOR PARALEL, BOTTOM-HUNG & SKYLIGHT VENTS</p>	<p>ALUTECH LIVIN L25 (230V AC) MOTOR Ayarlanabilir Açılma Mesafesi : 200 mm ile 380 mm İtme Gücü: 250 N Cekme Gücü: 250 N Çalışma Hızı: 18 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot: 60 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelede ...: 45 kg Kanat Eni: 450 - 1250 mm Maksimum Kanat Boyu: 2600 mm</p>
 <p>470045 - SİYAH / BLACK 470046 - GRİ / GRAY PARALEL, VASİSTAS VE İŞIKLIK KANATLARI İÇİN MOTOR / MOTOR FOR PARALEL, BOTTOM-HUNG & SKYLIGHT VENTS</p>	<p>ALUTECH LIVIN L35 (24V DC) MOTOR Ayarlanabilir Açılma Mesafesi : 200 mm ile 380 mm İtme Gücü: 250 N Cekme Gücü: 250 N Çalışma Hızı: 18 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot: 80 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelede ...: 65 kg Kanat Eni: 450 - 1250 mm Maksimum Kanat Boyu: 2600 mm</p>
 <p>470047 - GRİ / GRAY PARALEL, VASİSTAS VE İŞIKLIK KANATLARI İÇİN MOTOR / MOTOR FOR PARALEL, BOTTOM-HUNG & SKYLIGHT VENTS</p>	<p>ALUTECH FAST 50 (230V AC) MOTOR Ayarlanabilir Açılma Mesafesi : 300 mm İtme Gücü: 500 N Cekme Gücü: 500 N Çalışma Hızı: 23 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot: 160 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelede ...: 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 TEMSİLİDİR.
ACCESSORY IMAGES ARE REPRESENTATIVE AT THIS PAGE.

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	GÖRSELLER / IMAGES
 <p>470048 - GRİ / GRAY <i>PARALEL, VASİSTAS VE İŞIKLIK KANATLARI İÇİN MOTOR / MOTOR FOR PARALEL, BOTTOM-HUNG & SKYLIGHT VENTS</i></p>	<p>ALUTECH AIRWIN A 65 (230V AC) MOTOR Ayarlanabilir Açılma Mesafesi : 550 mm İtme Gücü: 650 N Çekme Gücü: 650 N Çalışma Hızı: 10 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot: 120 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelede .: 120 kg Kanat Eni: 200 - 1250 mm Maksimum Kanat Boyu: 2600 mm</p>
<p>470049 <i>ALUTECH GNS 02A - 2 KANAL UZAKTAN KUMANDA / ALUTECH GNS 02A - 2 CHANNEL REMOTE CONTROL</i></p>	
<p>470050 <i>ALUTECH GNS 202 / 220V - UZAKTAN KUMANDA ALICISI / ALUTECH GNS 202 / 220V - REMOTE CONTROL RECEIVER</i></p>	

* () 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

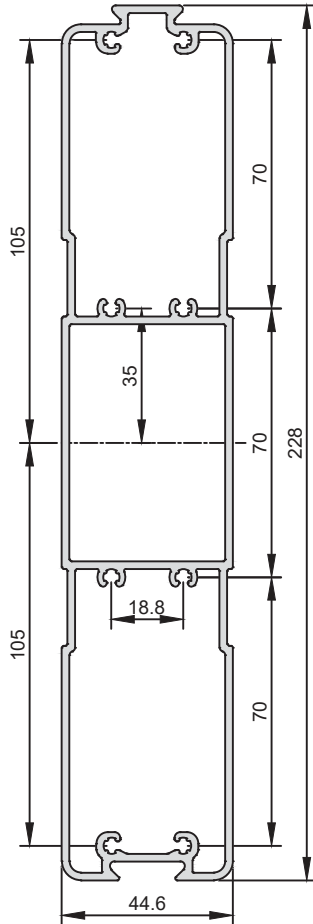
1. DİLATASYON BAĞLANTILARI /
DILATATION CONNECTIONS
2. U BAĞLANTILAR / U CONNECTIONS
3. YATAY KAYIT CONTALARI /
TRANSOM CONNECTION PLUGS
4. KONDENS YOLU İÇİN BAĞLANTI PARÇASI
CON. PIECE FOR THE CONDENSATION LINE
5. ÇÖRTEN / WATERSPOUT
6. CAM ALTI DESTEK PARÇALARI /
GLAZING SUPPORT PIECES
7. KANAT İÇİN CAM ALTI DESTEK PARÇALARI /
GLAZING SUPPORT PIECES FOR VENT
8. STANDART CAM ARASI KİTLEME PARÇALARI /
LOCKING PIECES FOR THE STANDARD SPACER
9. SICAK KENAR ÇITALI KİTLEME 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.

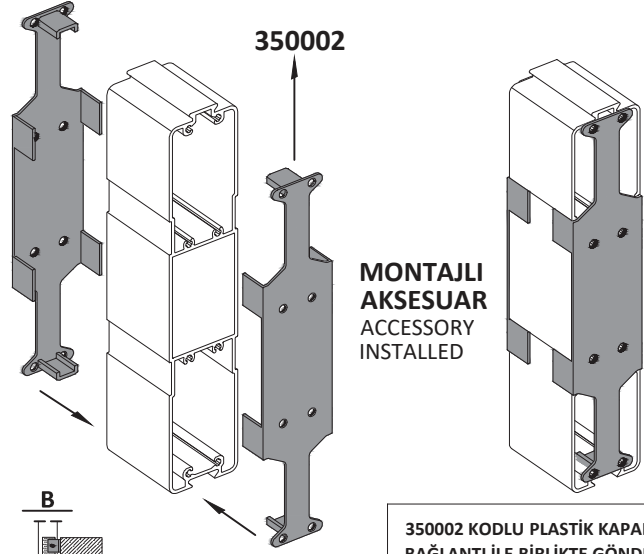
DİLATASYON BAĞLANTILARI

DILATATION CONNECTIONS

AKSESUAR KODU ACCESSORY CODE	KESİM ÖLÇÜSÜ CUTTING DIMENSION
310017	17,5 mm
310018	32,5 mm
310019	52,5 mm
310020	72,5 mm
310021	92,5 mm
310022	91,5 mm
310023	112 mm
310024	110 mm
310025	132 mm
310026	129,5 mm
310027	151,5 mm
310028	149 mm
310029	171,5 mm
310030	169 mm
310031	190 mm
310032	187 mm

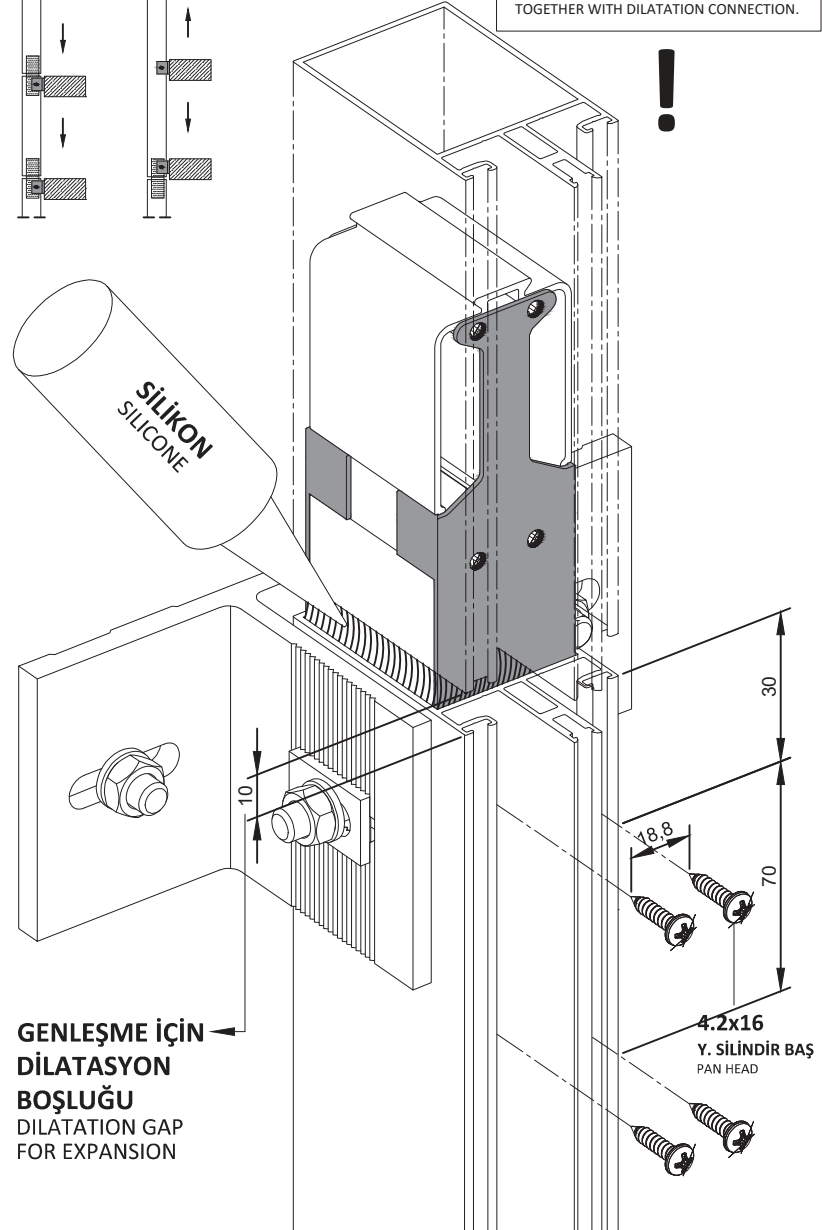
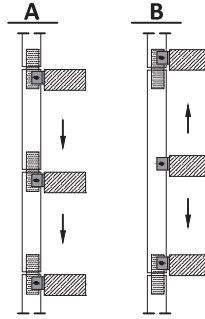


FP501 (3,864 kg/m.)



**MONTAJLI
AKSESUAR
ACCESSORY
INSTALLED**

**350002 KODLU PLASTİK KAPAKLAR,
BAĞLANTI İLE BİRLİKTE GÖNDERİLİR.
PLASTIC CAPS SEEN BELOW ARE DELIVERED
TOGETHER WITH DILATATION CONNECTION.**



**GENLEŞME İÇİN
DİLATASYON
BOŞLUĞU
DILATATION GAP
FOR EXPANSION**

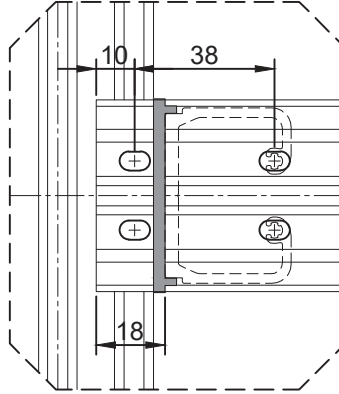
**4.2x16
Y. SİLİNDİR BAŞ
PAN HEAD**

U BAĞLANTILAR U CONNECTIONS

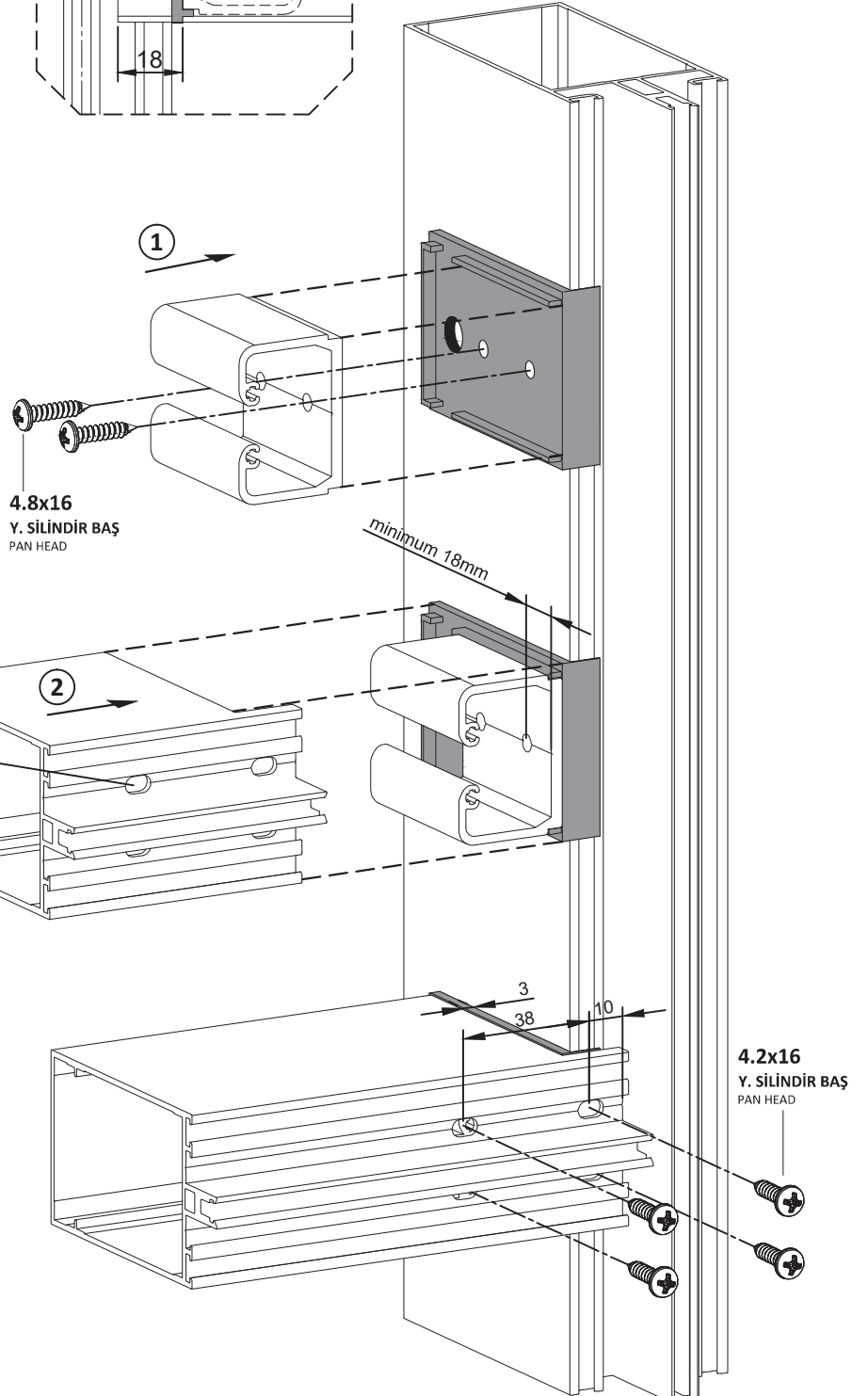
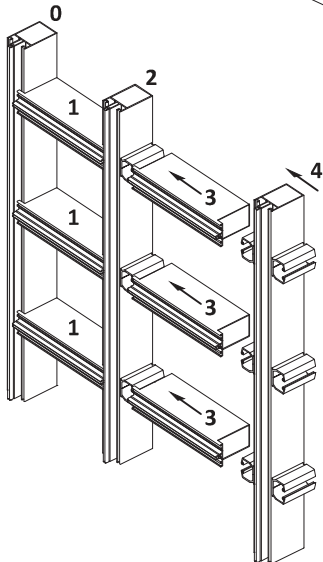
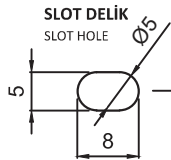
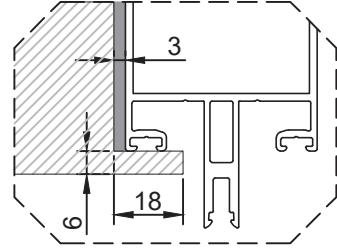
AKSESUAR KODU ACCESSORY CODE	KESİM ÖLÇÜSÜ CUTTING DIMENSION
310033	12 mm
310034	32 mm
310035	42 mm
310036	52 mm
310037	59,4 mm
310038	79,4 mm
310039	99,4 mm
310040	119,4 mm
310041	139,4 mm
310042	159,4 mm
310043	178 mm
310044	210 mm

FP506 (1,040 kg/m.)

SLOT DELİK ÖLÇÜLERİ
SLOT HOLE DIMENSIONS

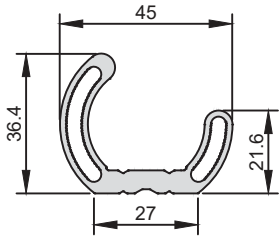


KERTME ÖLÇÜLERİ
NOTCHING DIMENSIONS



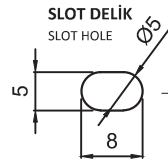
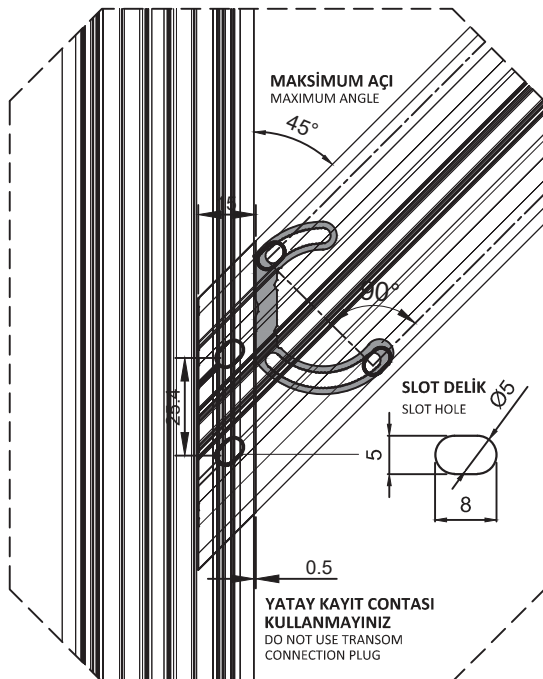
AÇILI U BAĞLANTILAR ANGULAR U CONNECTIONS

AKSESUAR KODU ACCESSORY CODE	KESİM ÖLÇÜSÜ CUTTING DIMENSION
310318	12 mm
310319	32 mm
310320	42 mm
310321	52 mm
310322	59,4 mm
310323	79,4 mm
310324	99,4 mm
310325	119,4 mm
310326	139,4 mm
310327	159,4 mm
310328	178 mm
310329	210 mm



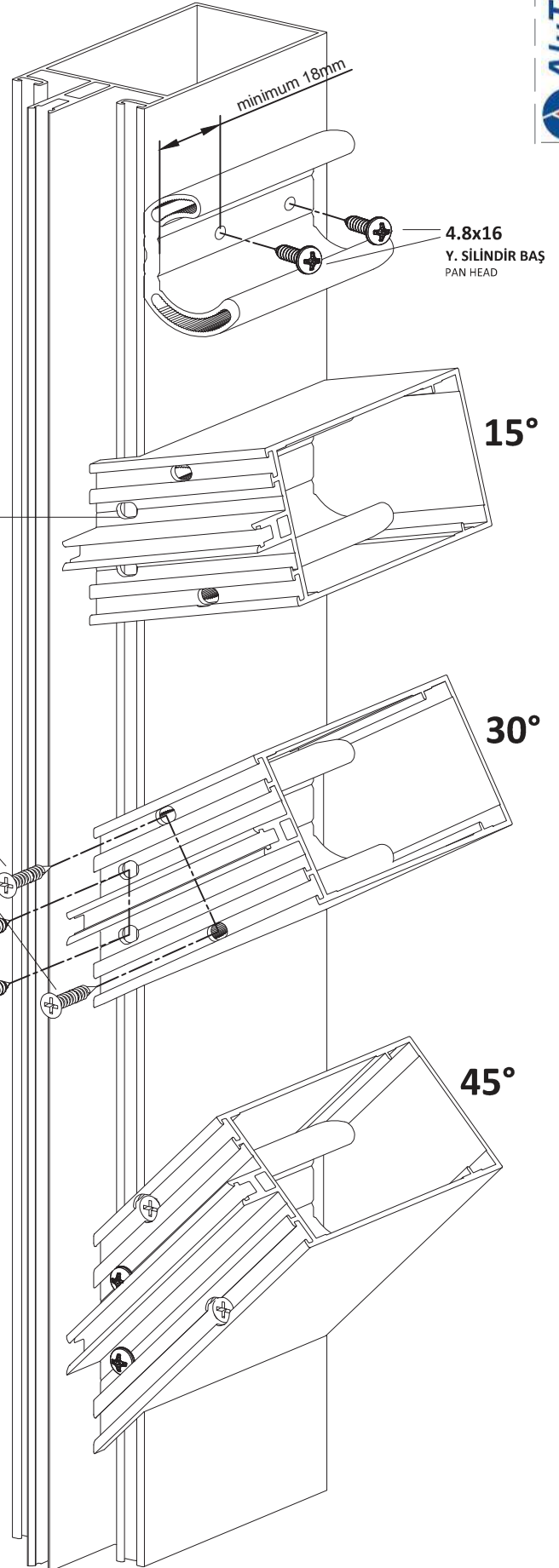
FP514 (0,947 kg/m.)

45° KAYIT BAĞLANTI ÖRNEĞİ 45° TRANSOM CONNECTION SAMPLE



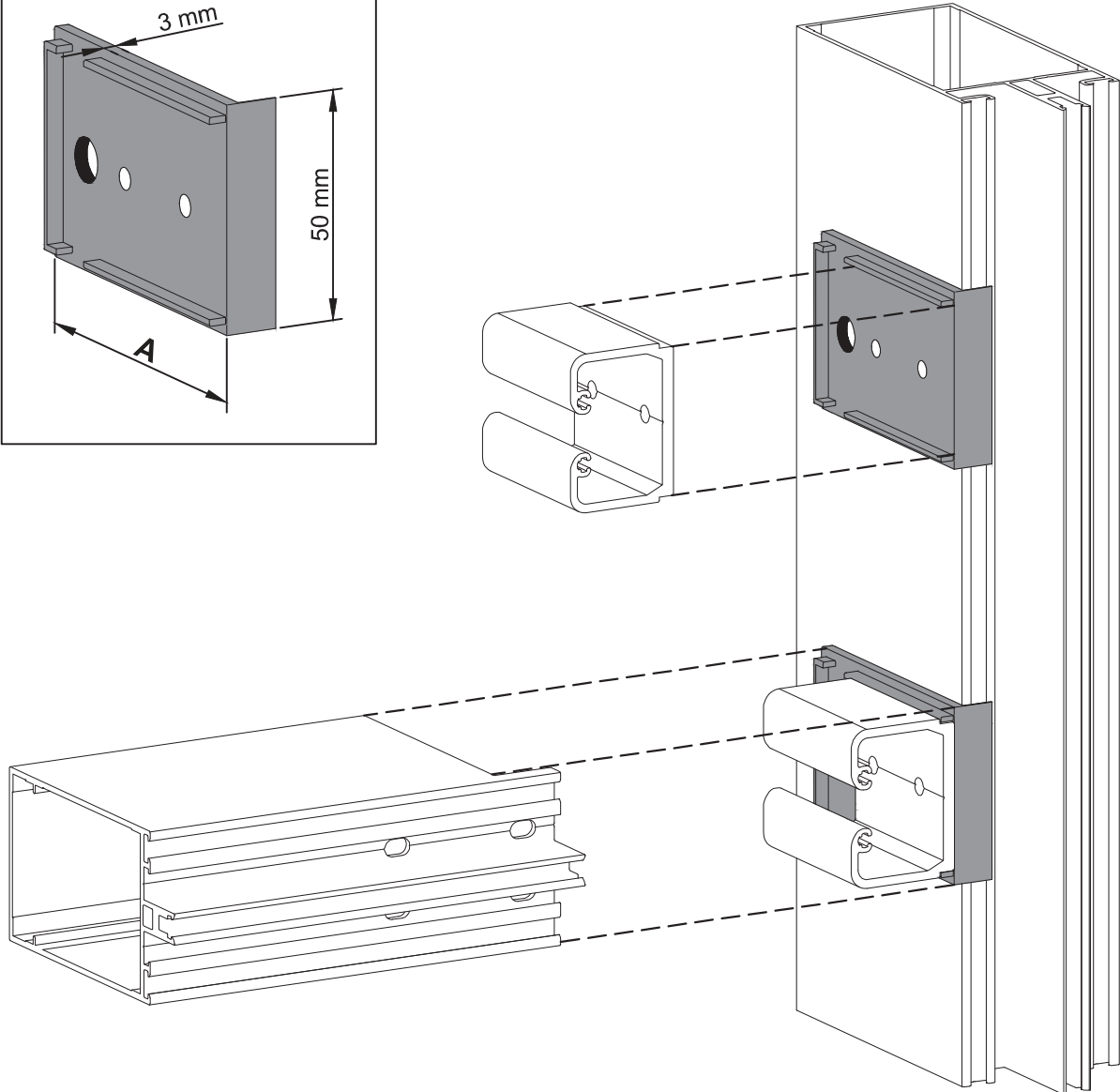
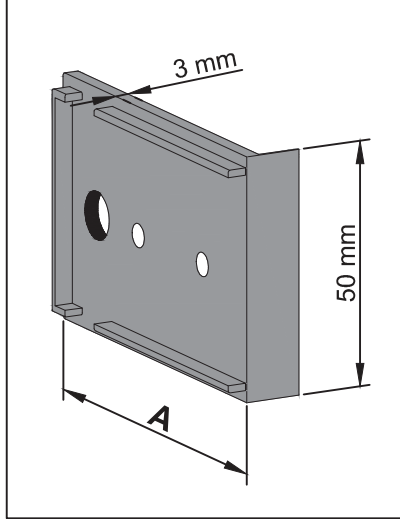
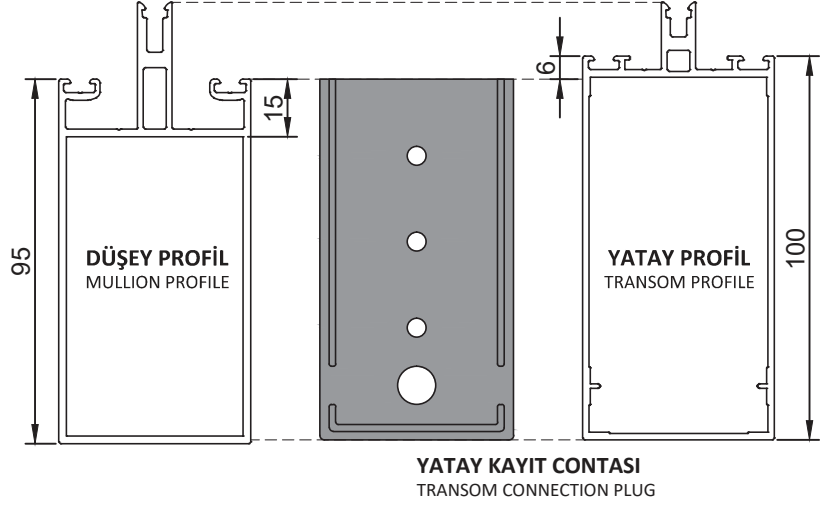
4.8x16
Y. HAVŞA BAŞ
COUNTERSUNK

4.2x16
Y. SİLİNDİR BAŞ
PAN HEAD



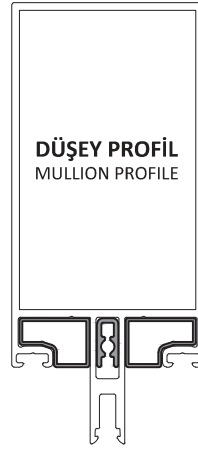
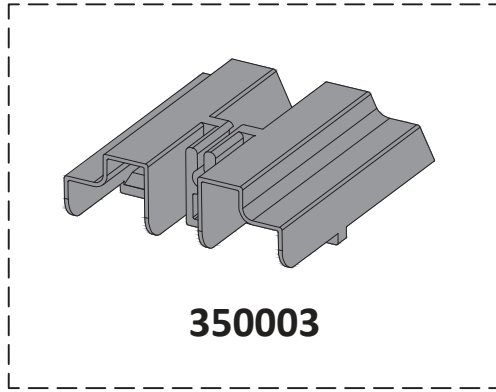
YATAY KAYIT CONTALARI TRANSOM CONNECTION PLUGS

AKSESUAR KODU ACCESSORY CODE	A (mm)
330004	20 mm
330005	40 mm
330006	60 mm
330007	80 mm
330008	100 mm
330009	120 mm
330010	140 mm
330011	160 mm
330012	180 mm
330013	200 mm
330014	220 mm

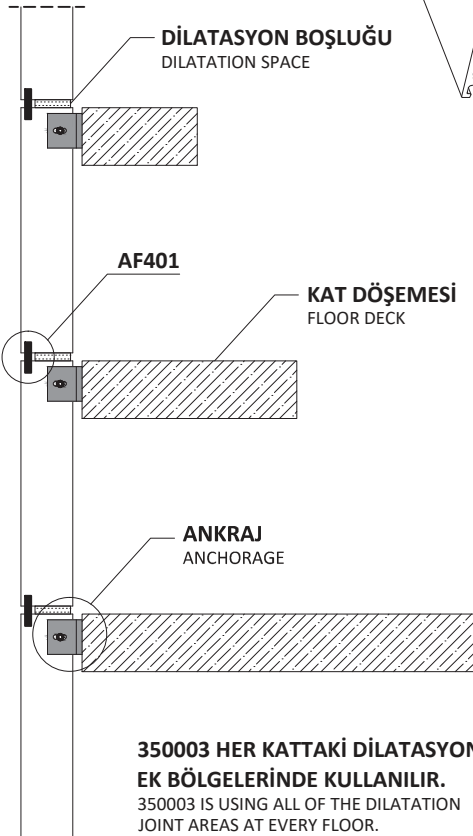
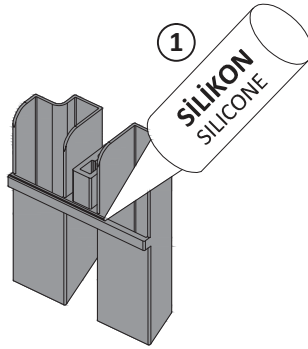


KONDENS YOLU İÇİN BAĞLANTI PARÇASI

CONNECTION PIECE FOR THE CONDENSATION LINE



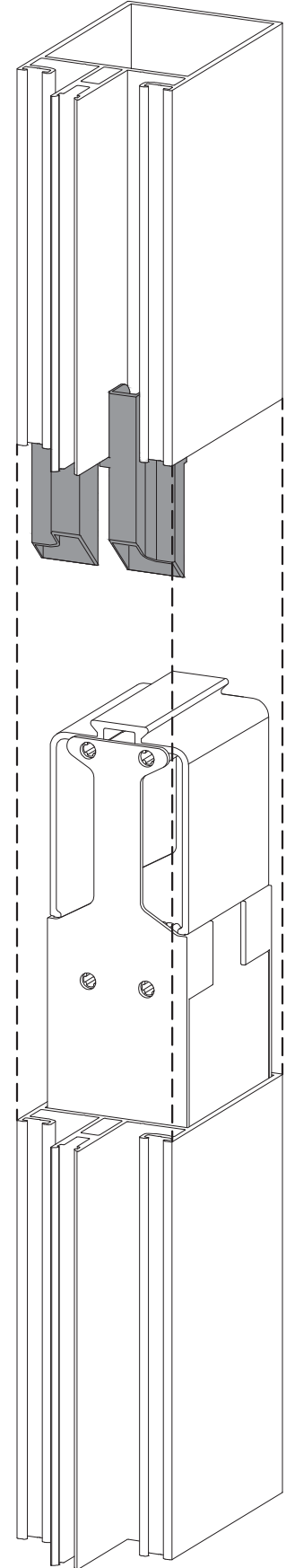
④



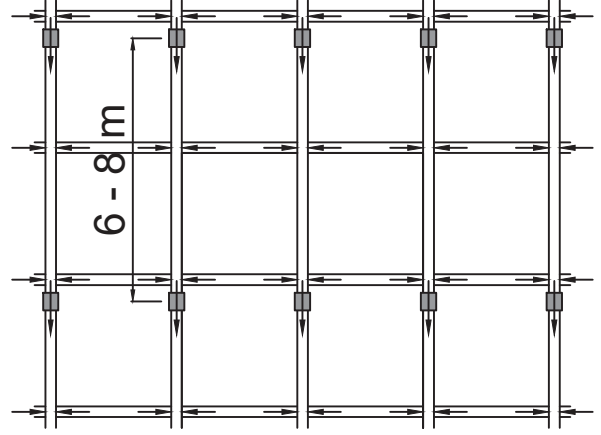
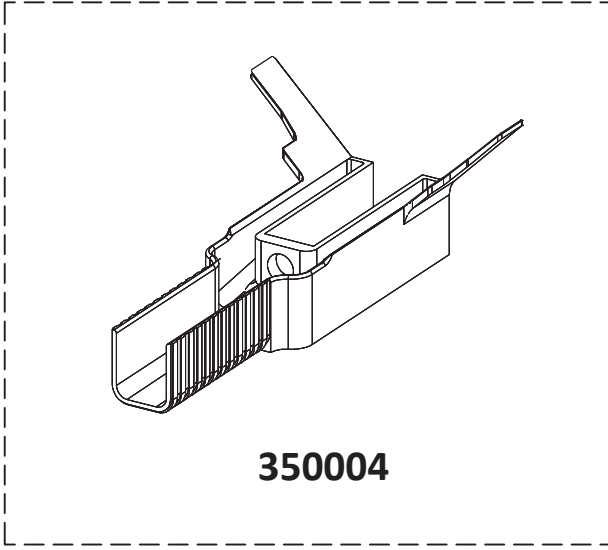
②

③

4.8x13
Y. SİLİNDİR BAŞ
PAN HEAD



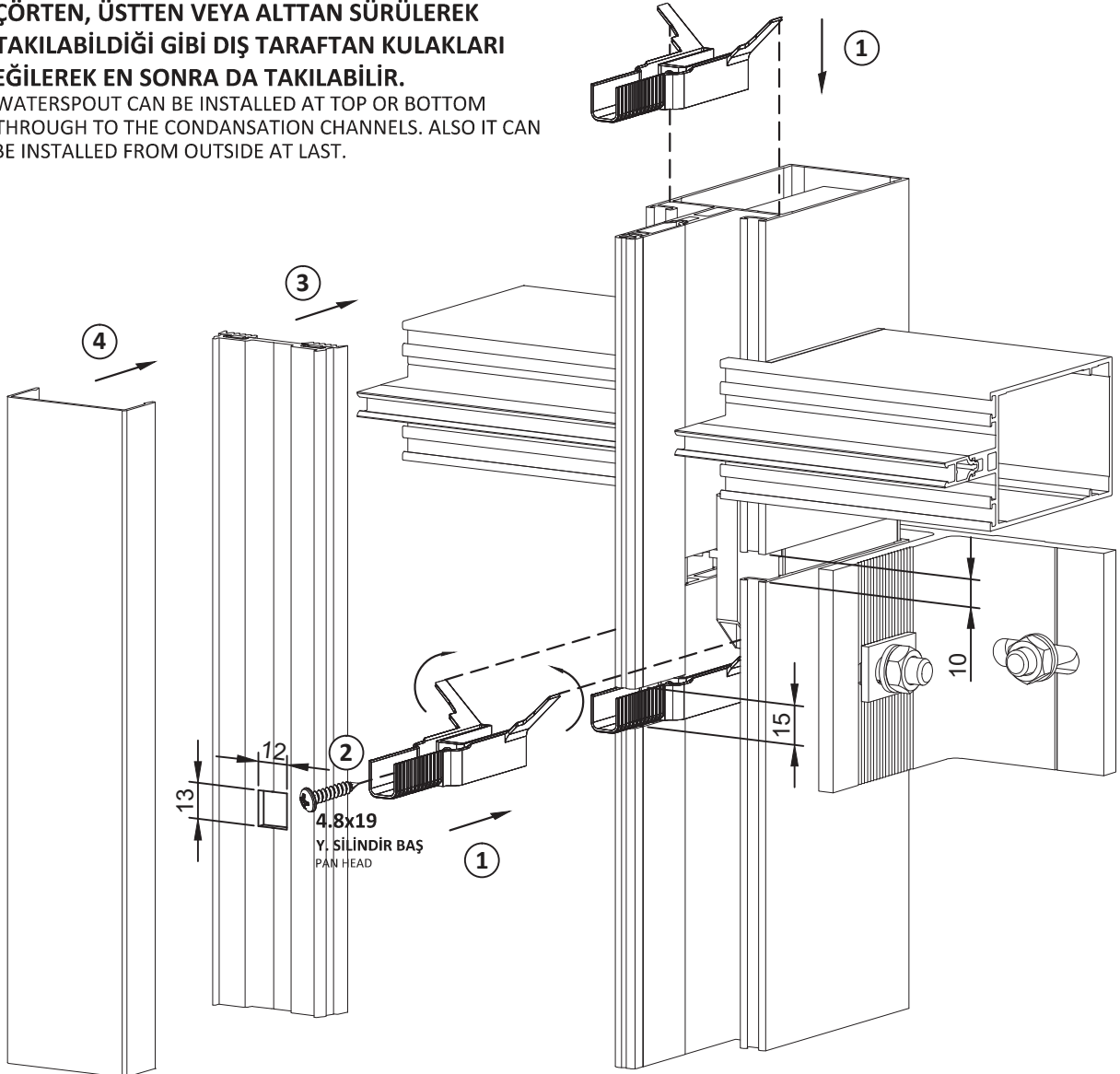
ÇÖRTEN (YÜKSEK KATLI YAPILAR İÇİN)
WATERPOUT (FOR ONLY HIGH BUILDINGS)



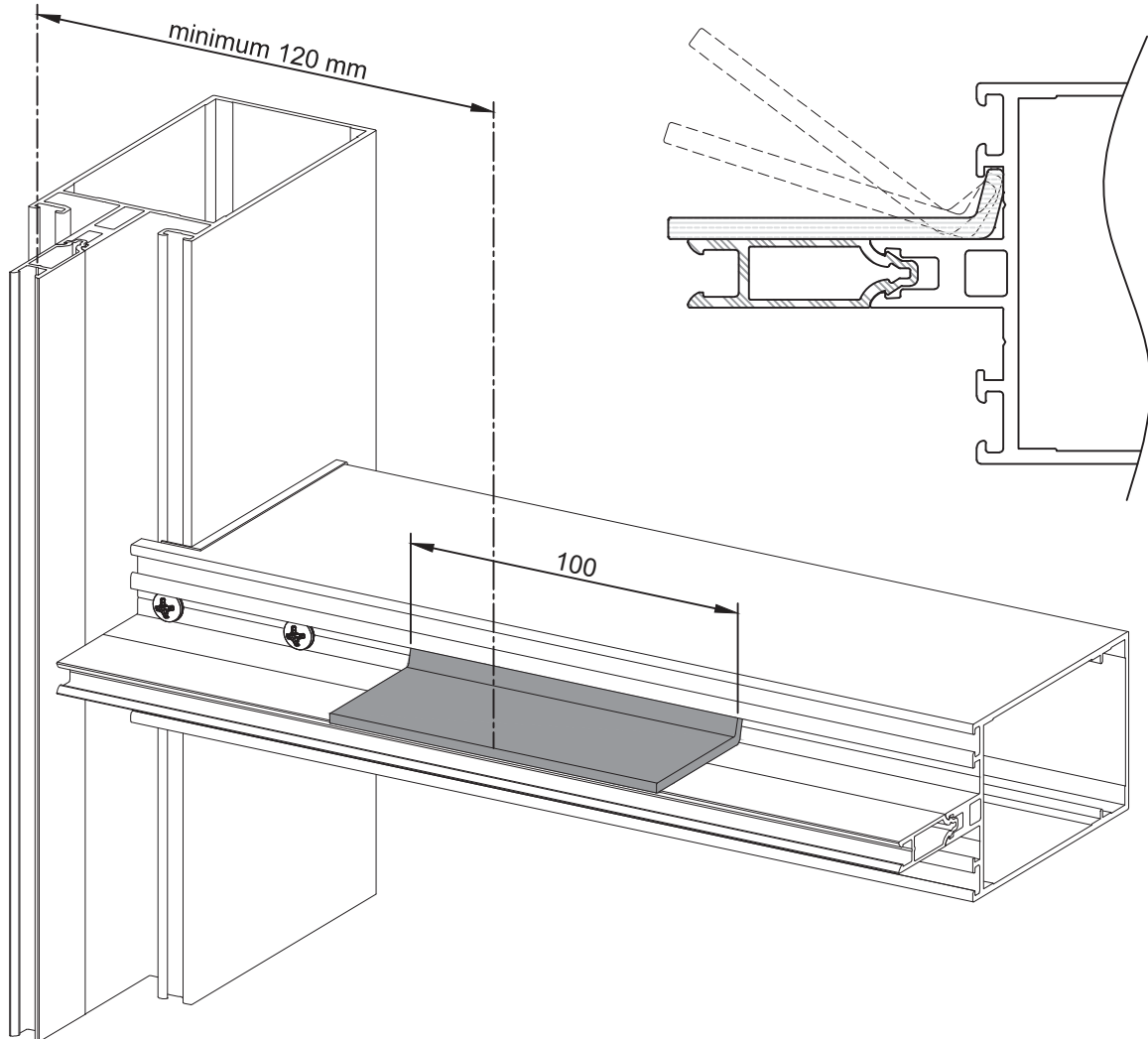
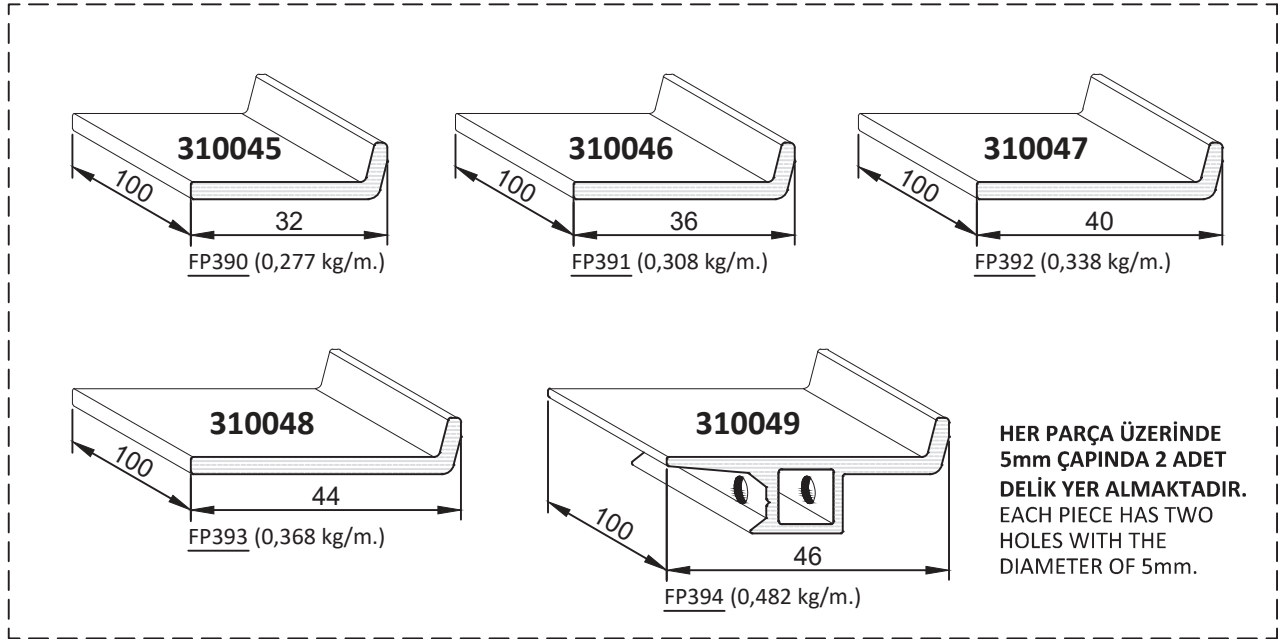
60 METRE BİNA YÜKSEKLİĞİNDEN SONRA HER İKİ KATTA BİR UYGULANMASI TAVSİYE EDİLİR.
USING ONE AT EACH TWO FLOORS AFTER THE BUILDING HEIGHT OF 60 METERS RECOMMENDED.

ÇÖRTEN, ÜSTTEN VEYA ALTAN SÜRÜLEREK TAKILABİLDİĞİ GİBİ DIŞ TARAFTAN KULAKLARI EĞİLEREK EN SONRA DA TAKILABİLİR.

WATERPOUT CAN BE INSTALLED AT TOP OR BOTTOM THROUGH TO THE CONDANSATION CHANNELS. ALSO IT CAN BE INSTALLED FROM OUTSIDE AT LAST.

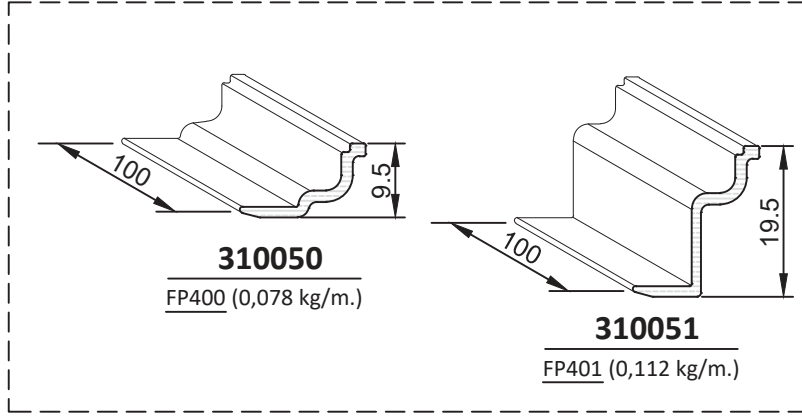


CAM ALTI DESTEK PARÇALARI
GLAZING SUPPORT PIECES

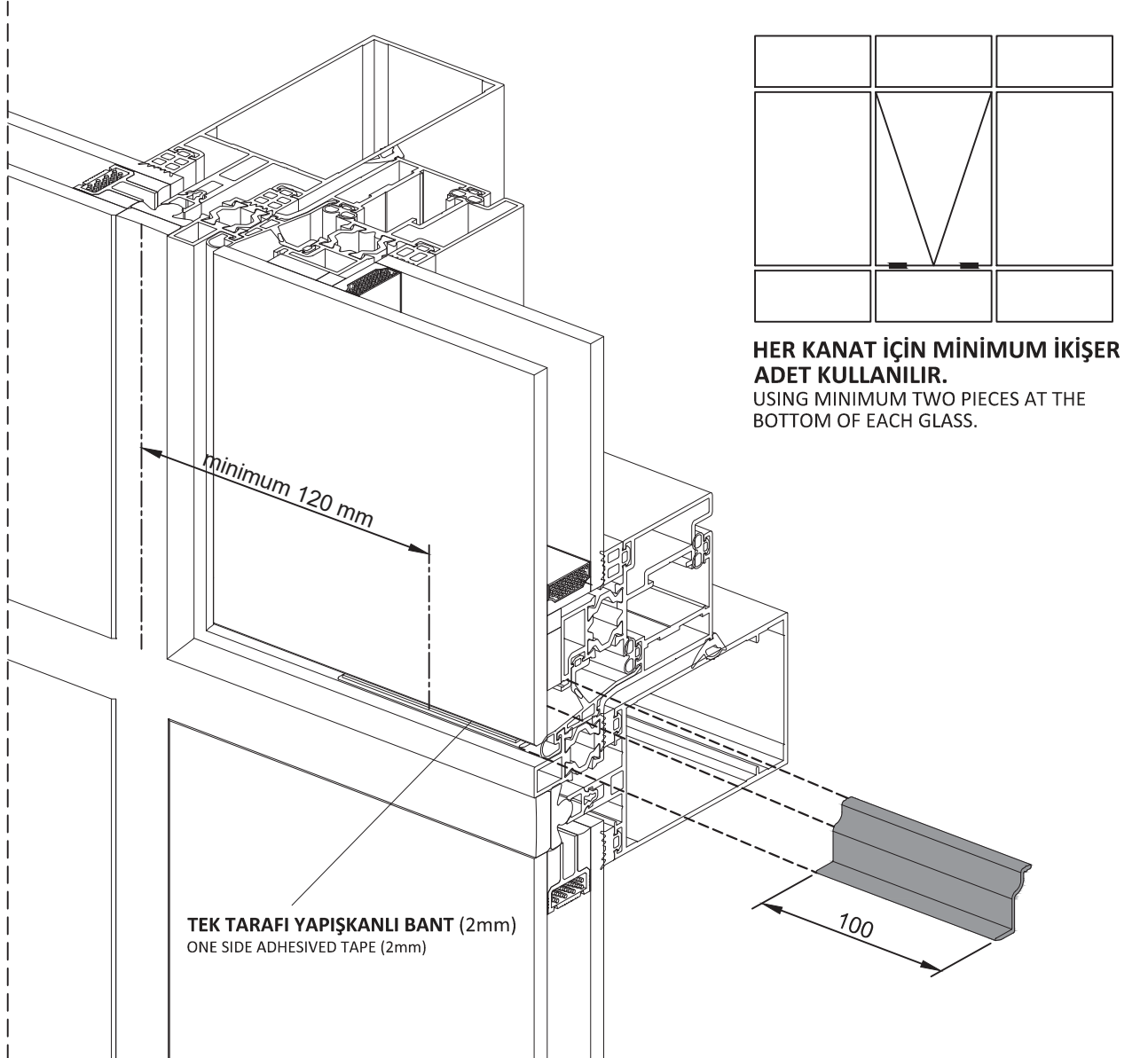


KANAT İÇİN CAM ALTI DESTEK PARÇALARI

GLAZING SUPPORT PICES FOR VENT



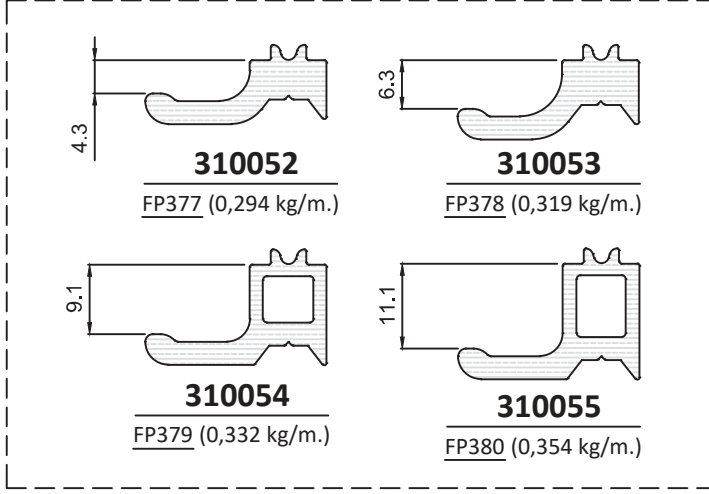
CAM ALTI DESTEK PARÇALARI, KANAT KÖŞELERİ PRESLENMEDEN ÖNCE TAKILMALIDIR.
GLAZING SUPPORTS SHOULD BE INSTALLED BEFORE THE CORNER CLEAT JOINTS OF VENT APPLIED.



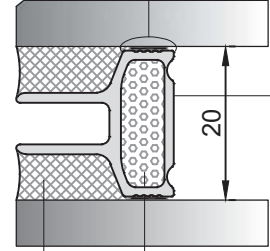
HER KANAT İÇİN MİNİMUM İKİŞER ADET KULLANILIR.
USING MINIMUM TWO PICES AT THE BOTTOM OF EACH GLASS.

STANDART 20mm ISICAM ÇITALI CAM ARASI KİTLEME PARÇALARI

LOCKING PIECES FOR THE STANDARD 20mm DOUBLE GLAZED GLASS SPACER



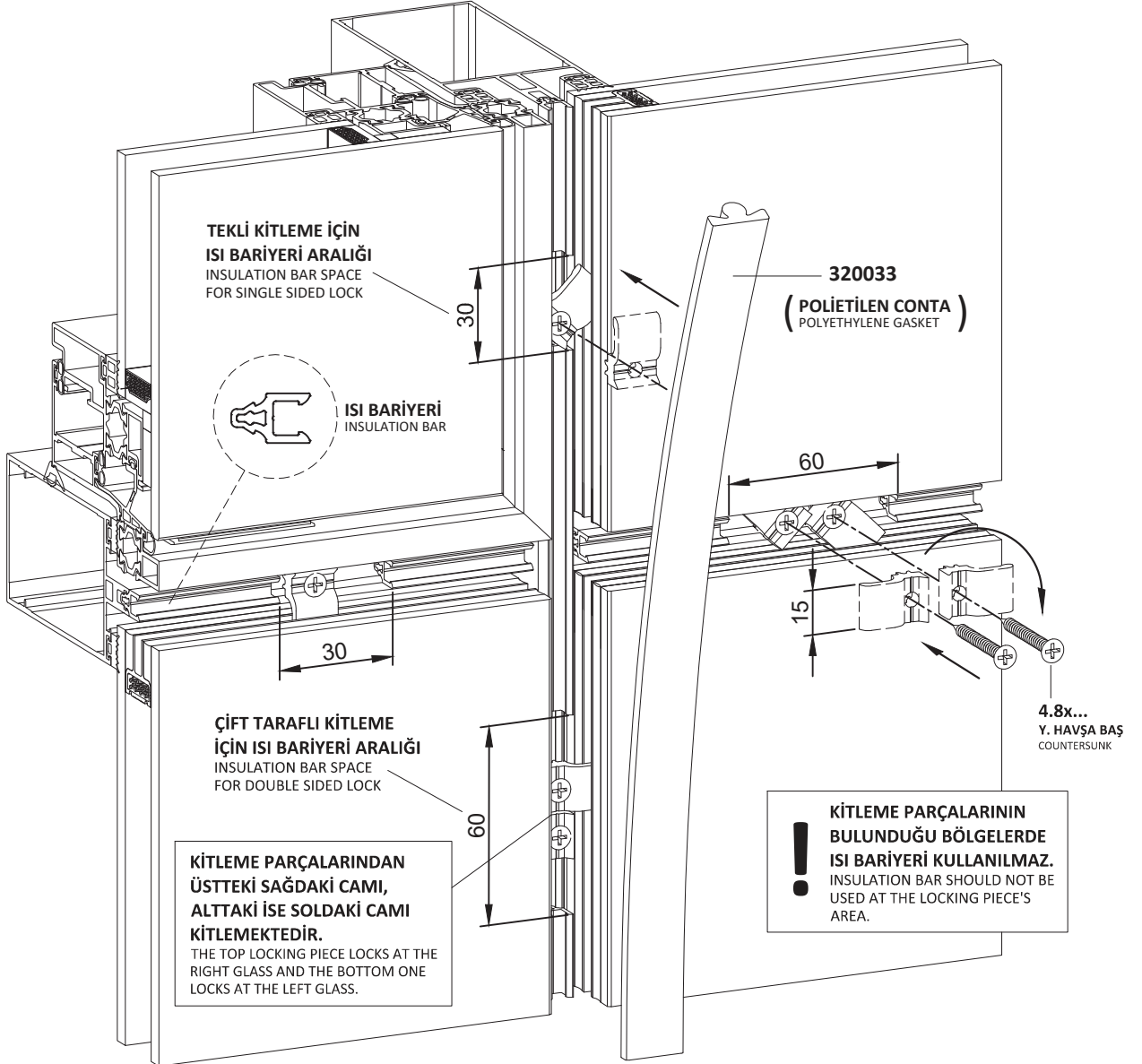
BUTİL BANT (0,5mm)
BUTYL TAPE (0,5mm)



FP398
(0,240 kg/m)

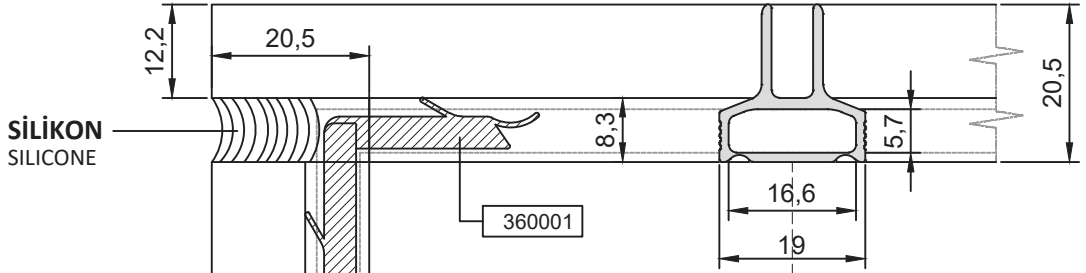
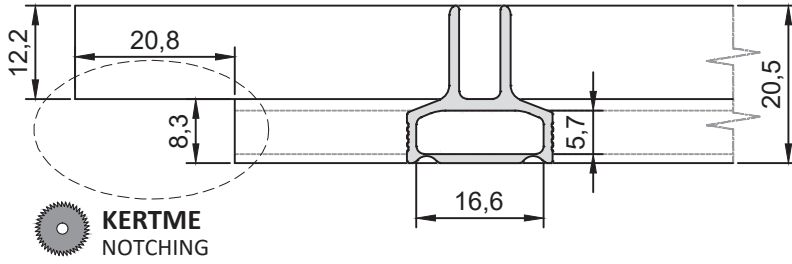
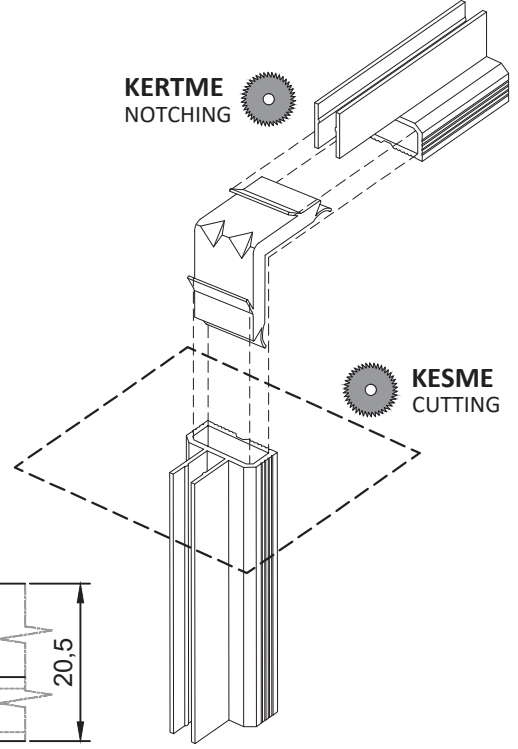
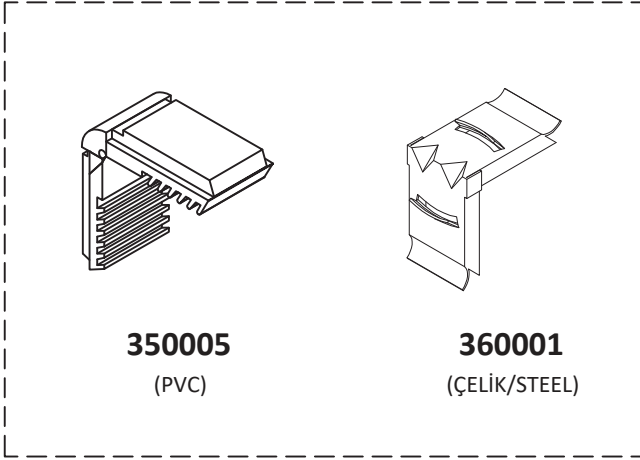
SİLİKA JEL
SILICA GEL

SİLİKON
SILICONE

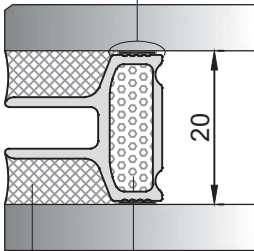


! AYNI CAM MODÜLÜNDEKİ KİTLEMELER ARASI MESAFE YAKLAŞIK 30 CM OLMALIDIR.
DISTANCE BETWEEN LOCKING PIECES SHOULD BE APPROXIMATELY 30 CM AT THE SAME GLASS MODULE.

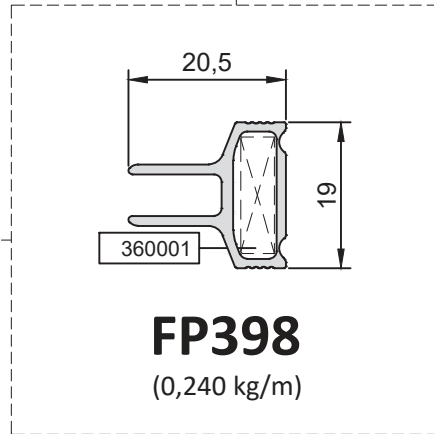
STANDART 20mm ISICAM ÇITASI İÇİN KÖŞE BİRLEŞTİRME METODU
CORNER CONNECTION METHOD FOR THE STANDARD 20mm DOUBLE GLAZED GLASS SPACER



BUTİL BANT (0,5mm)
BUTYL TAPE (0,5mm)

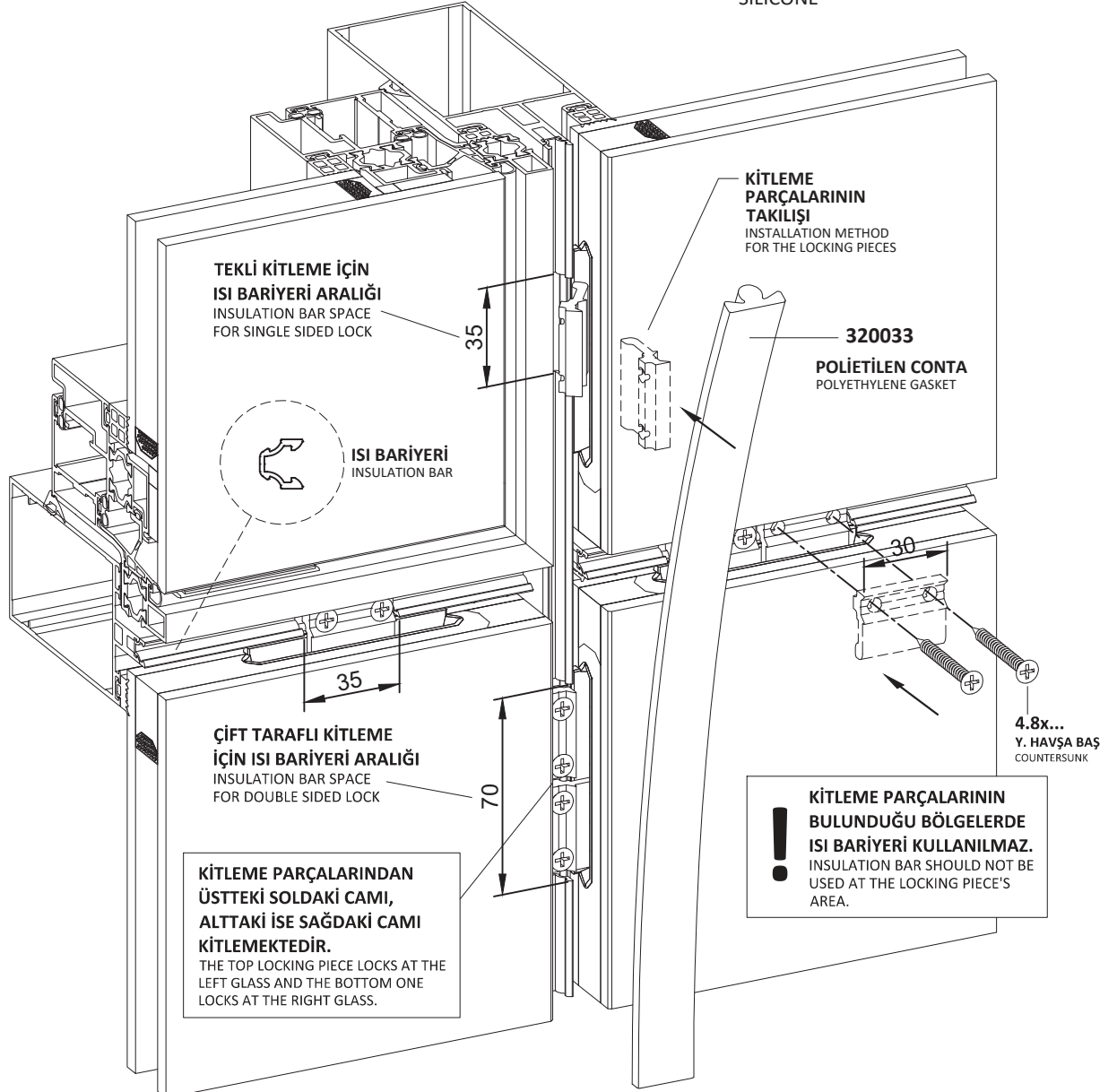
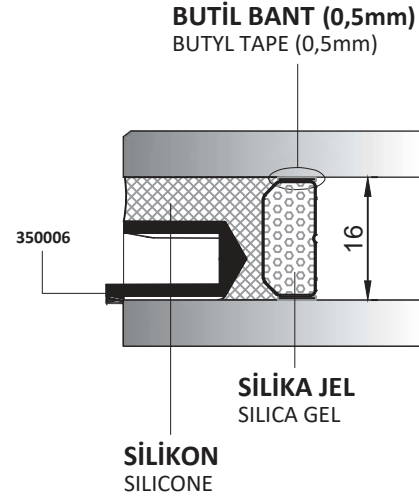
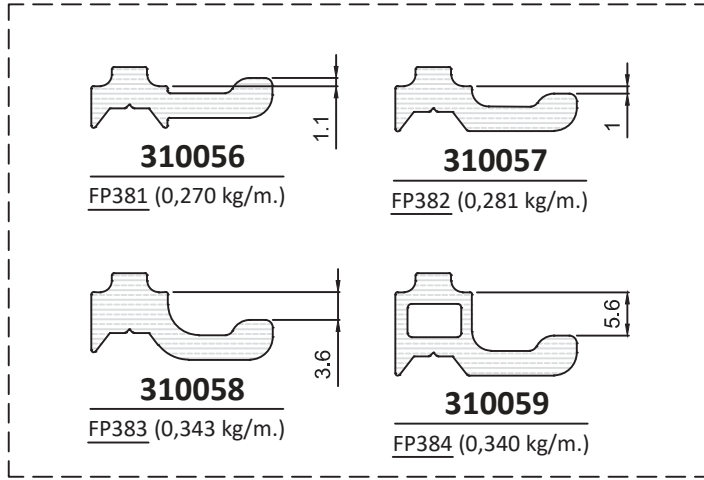


SİLİKON SILICONE



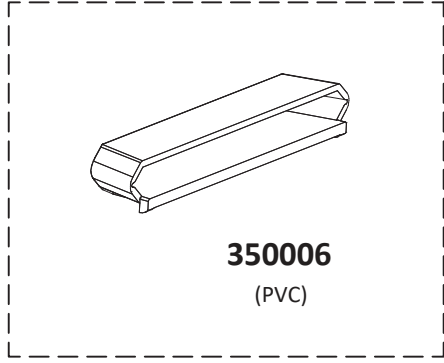
16mm SICAK KENAR ISICAM ÇITALI CAM ARASI KİTLEME PARÇALARI

LOCKING PIECES FOR 16mm WARM EDGE DOUBLE GLAZED GLASS SPACER

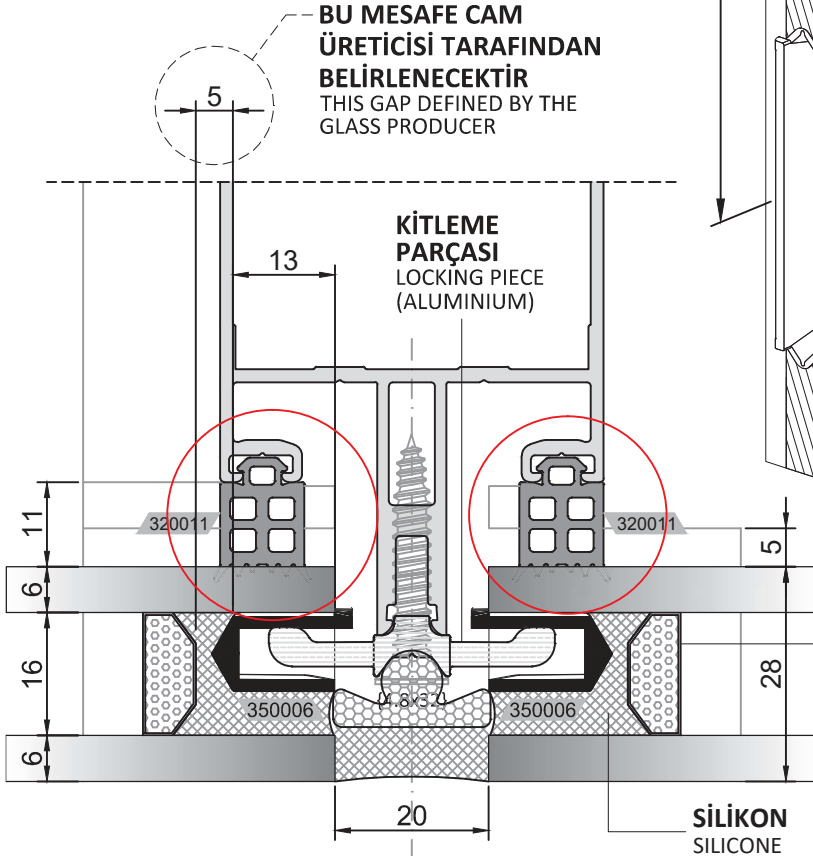
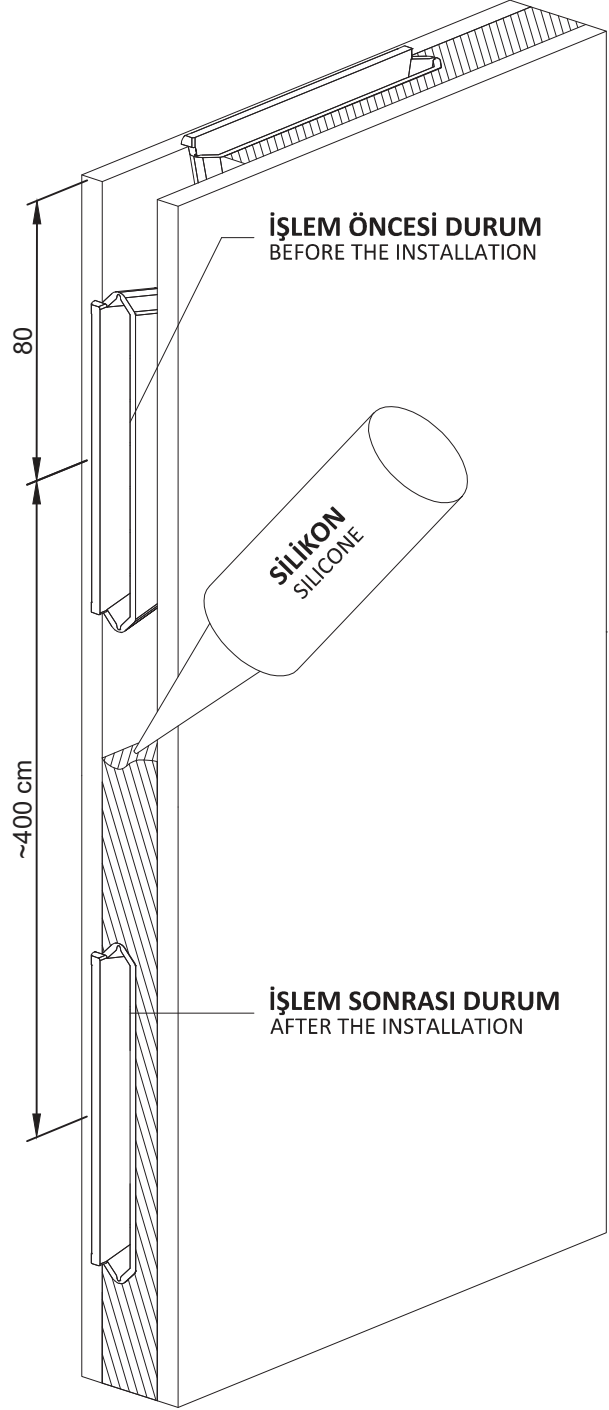
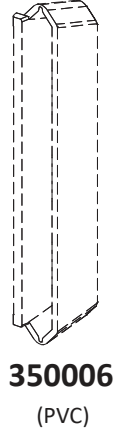


! AYNI CAM MODÜLÜNDEKİ KİTLEMELER ARASI MESAFE YAKLAŞIK 40 CM OLMALIDIR.
DISTANCE BETWEEN LOCKING PIECES SHOULD BE APPROXIMATELY 40 CM AT THE SAME GLASS MODULE.

16mm SICAK KENAR ISICAM ÇITASI İÇİN CAM ARASI KİTLEME HAVUZU
LOCKING HOLE FOR 16mm WARM EDGE DOUBLE GLAZED GLASS SPACER

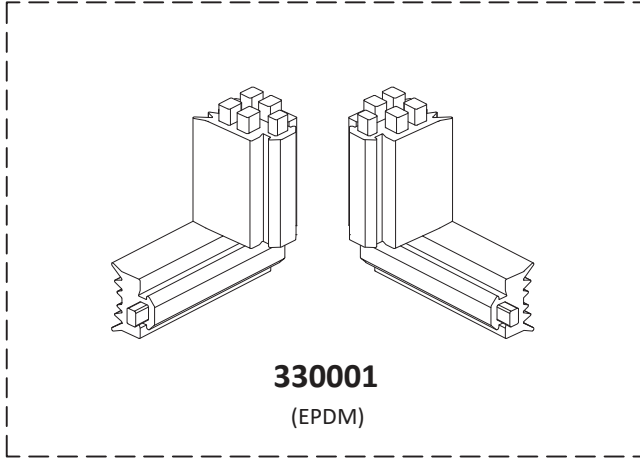


! 350006 KODLU KİTLEME HAVUZU SİLİKONLAMA İŞLEMİNDEN ÖNCE DOĞRU KONUMUNDA YAPIŞTIRILABİLİR YA DA SİLİKONLANMIŞ ISLAK YÜZEYE BATIRILARAK SONRADAN DA TAKILABİLİR.
LOCKING HOLE CAN BE GLUED BEFORE BONDING PROCESS TO THE RIGHT POSITION OR CAN BE SINK INTO THE WET SILICONE AFTER THE BONDING PROCESS.

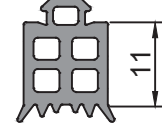


VULKANİZE İÇ KÖŞE PARÇALARI

VULCANISED INNER CORNER PIECES

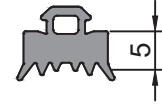


DÜŞEY FİTİL
VERTICAL GASKET



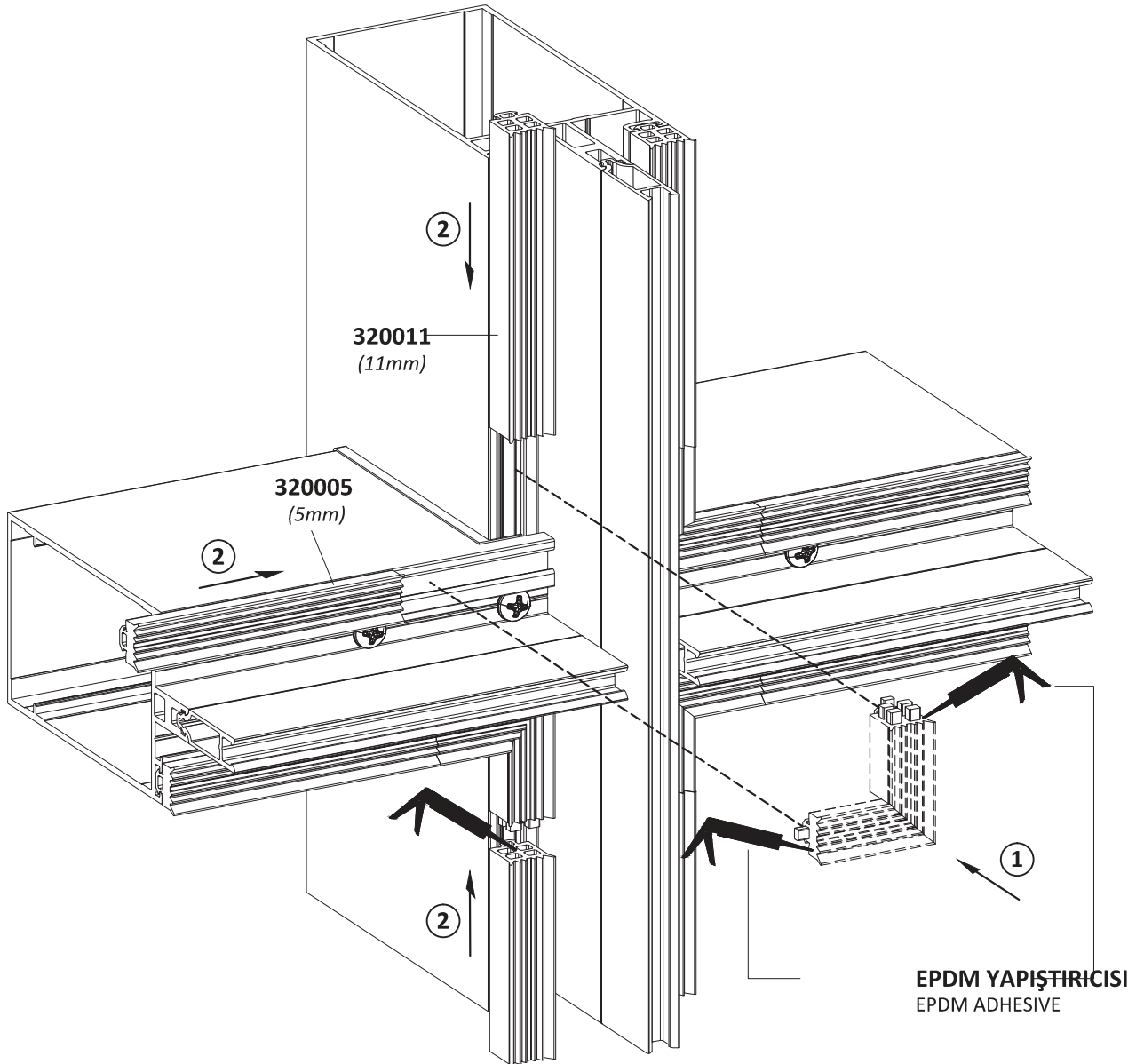
320011
(11mm)

YATAY FİTİL
HORIZONTAL GASKET



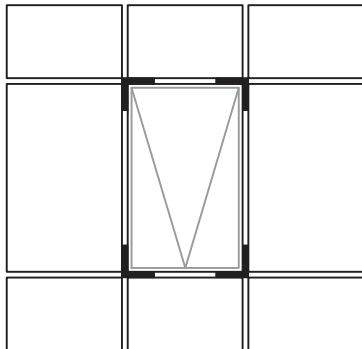
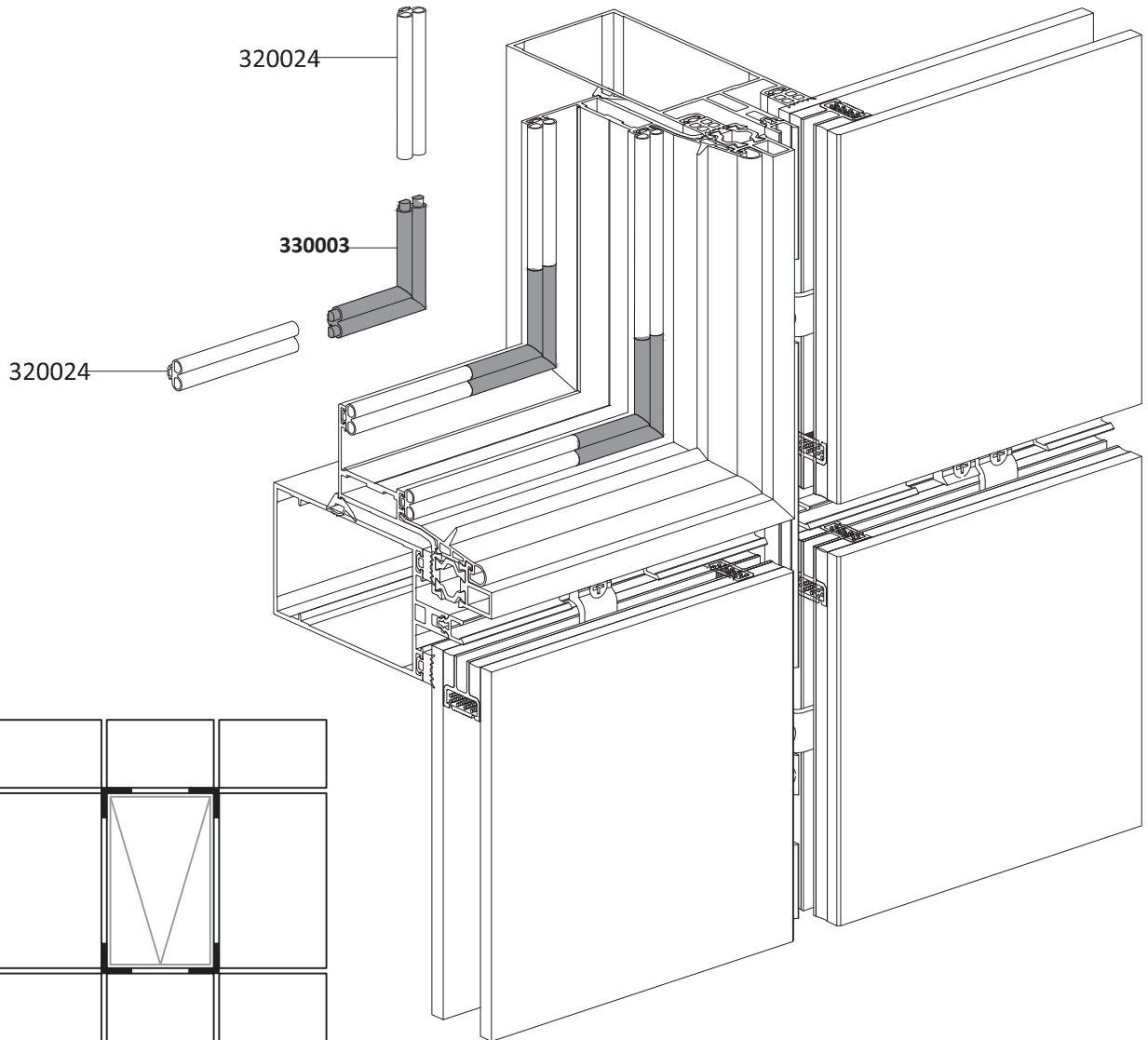
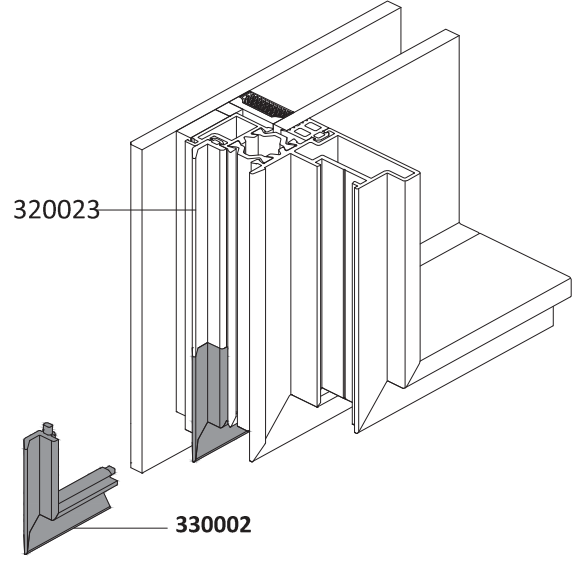
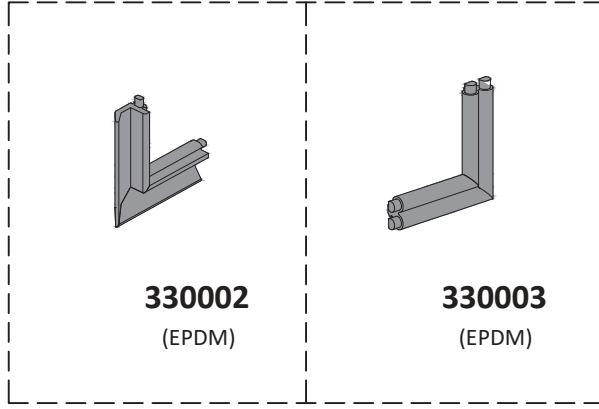
320005
(5mm)

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



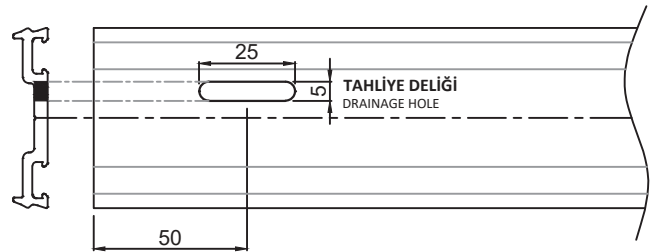
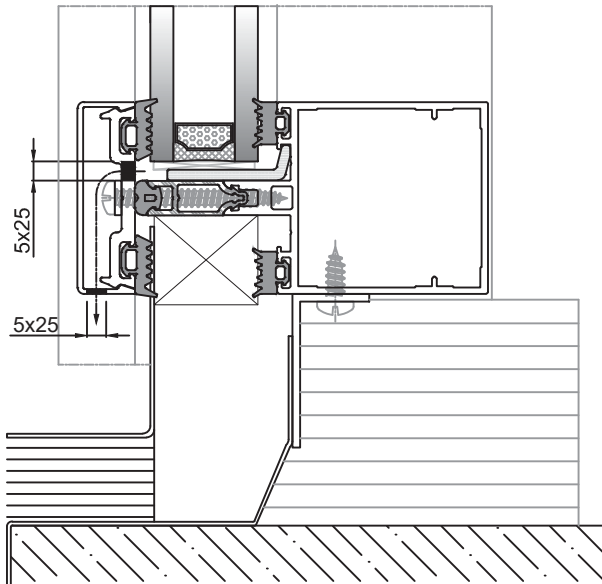
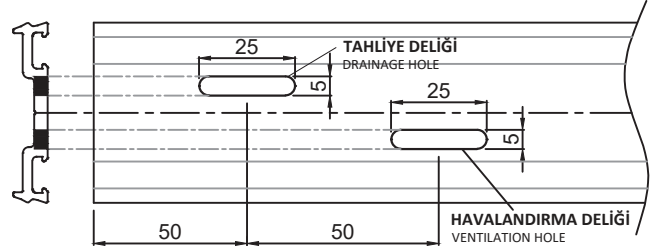
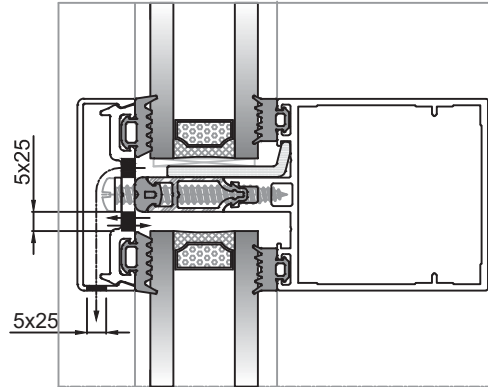
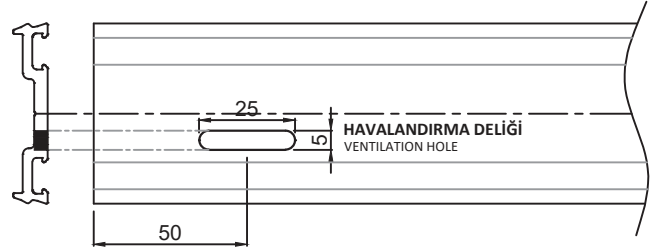
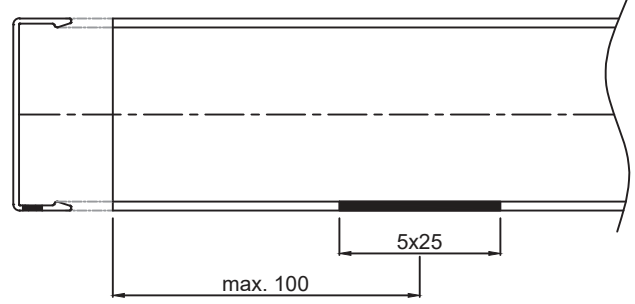
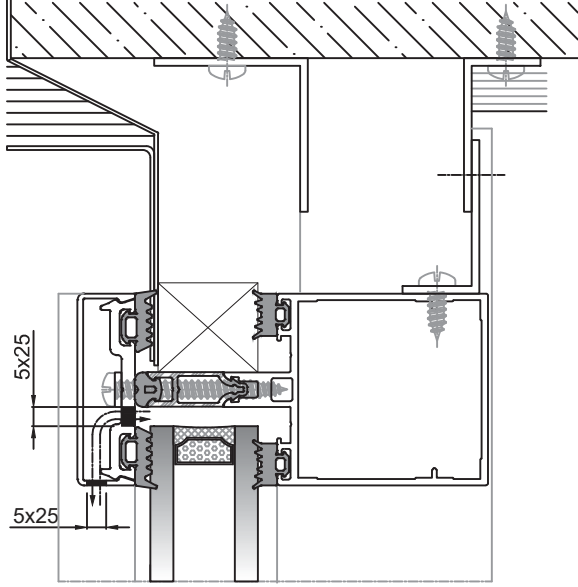
DIŐA AÇILIR KANAT İÇİN VULKANİZE KÖŐE PARÇALARI

VULCANISED CORNER PIECES FOR OUTWARD OPENING VENT



KAPAKLAR İÇİN TAHLİYE DELİK ŞEMALARI

SCHEMAS OF THE DRAINAGE HOLES FOR THE CAPS



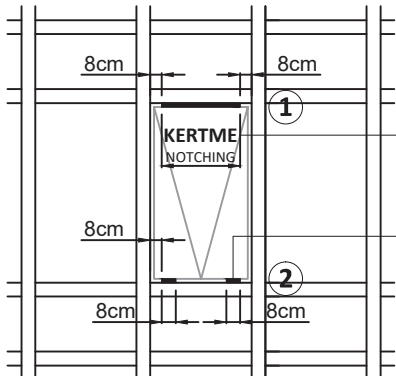
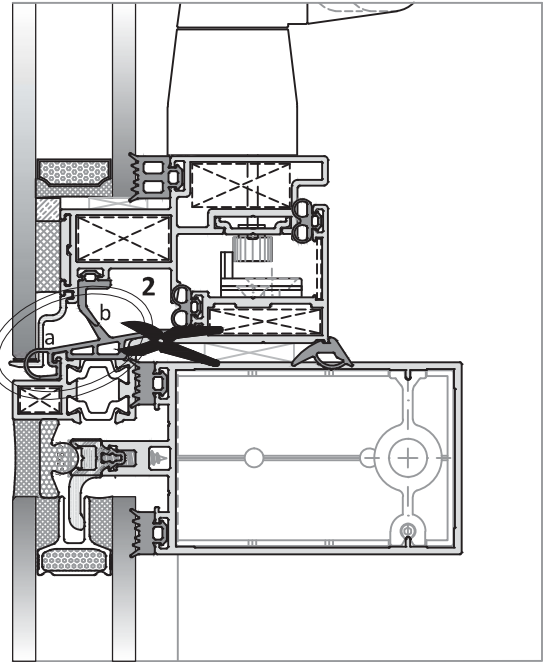
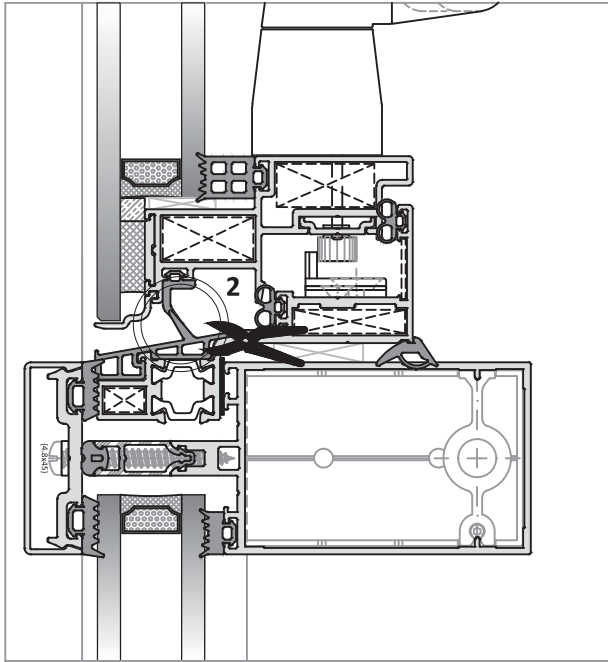
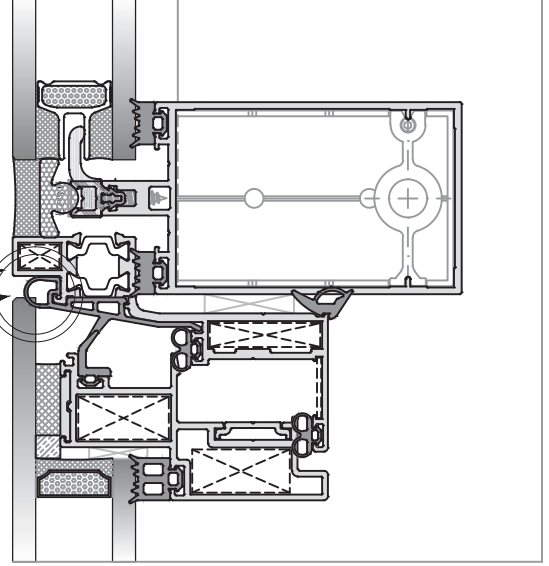
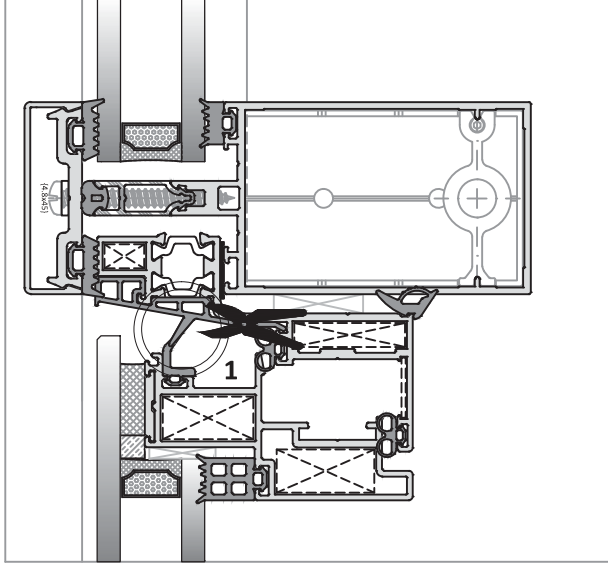
ÖNEMLİ: AÇILAN İKİ DELİK ARASINDA HER DURUMDA EN AZ 50mm HİZA FARKI(ŞAŞIRTMA) OLMALIDIR.

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.

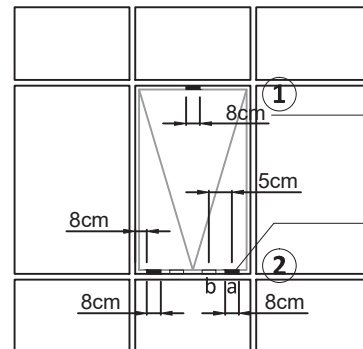
NOTE: ADDITIONAL DRAINAGE HOLE SHOULD BE REQUIRED AT THE MIDDLE FOR TRANSOMS LONGER THAN 1,5 METER.

KANATLAR İÇİN TAHLİYE DELİK ŞEMALARI SCHEMAS OF THE DRAINAGE HOLES FOR VENTS



**BASINÇ DENGELEME
BOŞLUĞU**
PRESSURE BALANCATION SPACE

**ALT FİTİL TAHLİYE
KERTMELERİ**
DRAINAGE NOTCHES FOR
THE BOTTOM GASKET



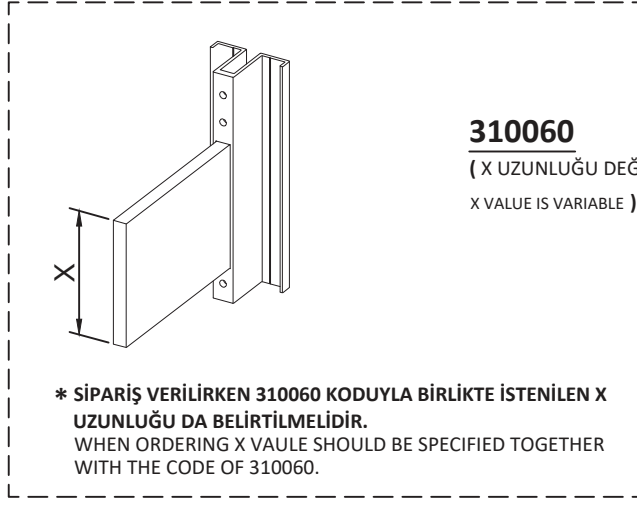
**BASINÇ DENGELEME
BOŞLUĞU**
PRESSURE BALANCATION SPACE

**ALT FİTİL TAHLİYE
KERTMELERİ**
DRAINAGE NOTCHES FOR
THE BOTTOM GASKET

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

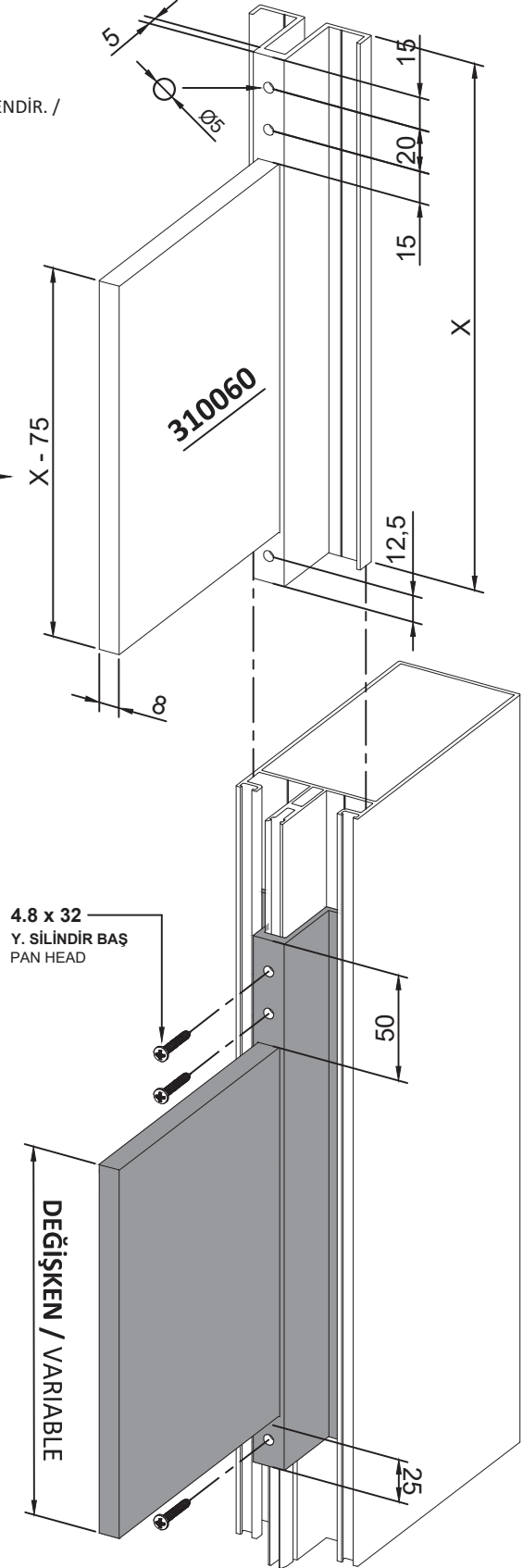
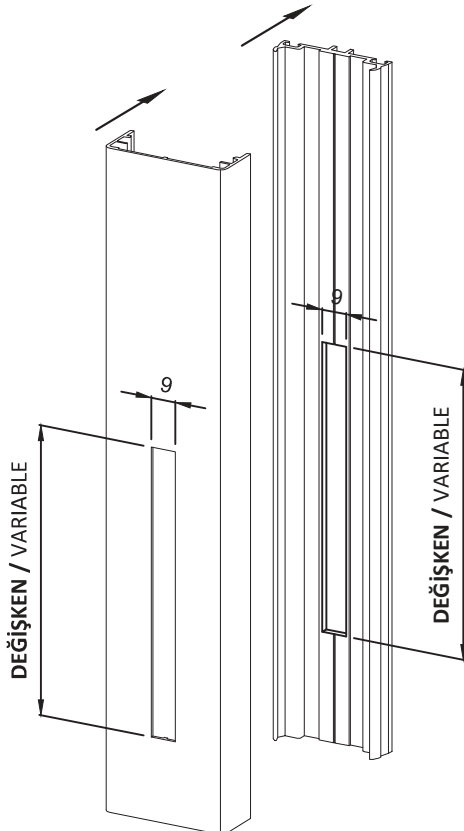
KAPAKLI CEPHEDE G.KIRICI TAŞIYICI APARAT İÇİN BAĞLANTI DETAYI

CARRIER APPARATUS FOR SUNBREAKER CONNECTION DETAIL AT THE CAPPED CURTAIN WALL

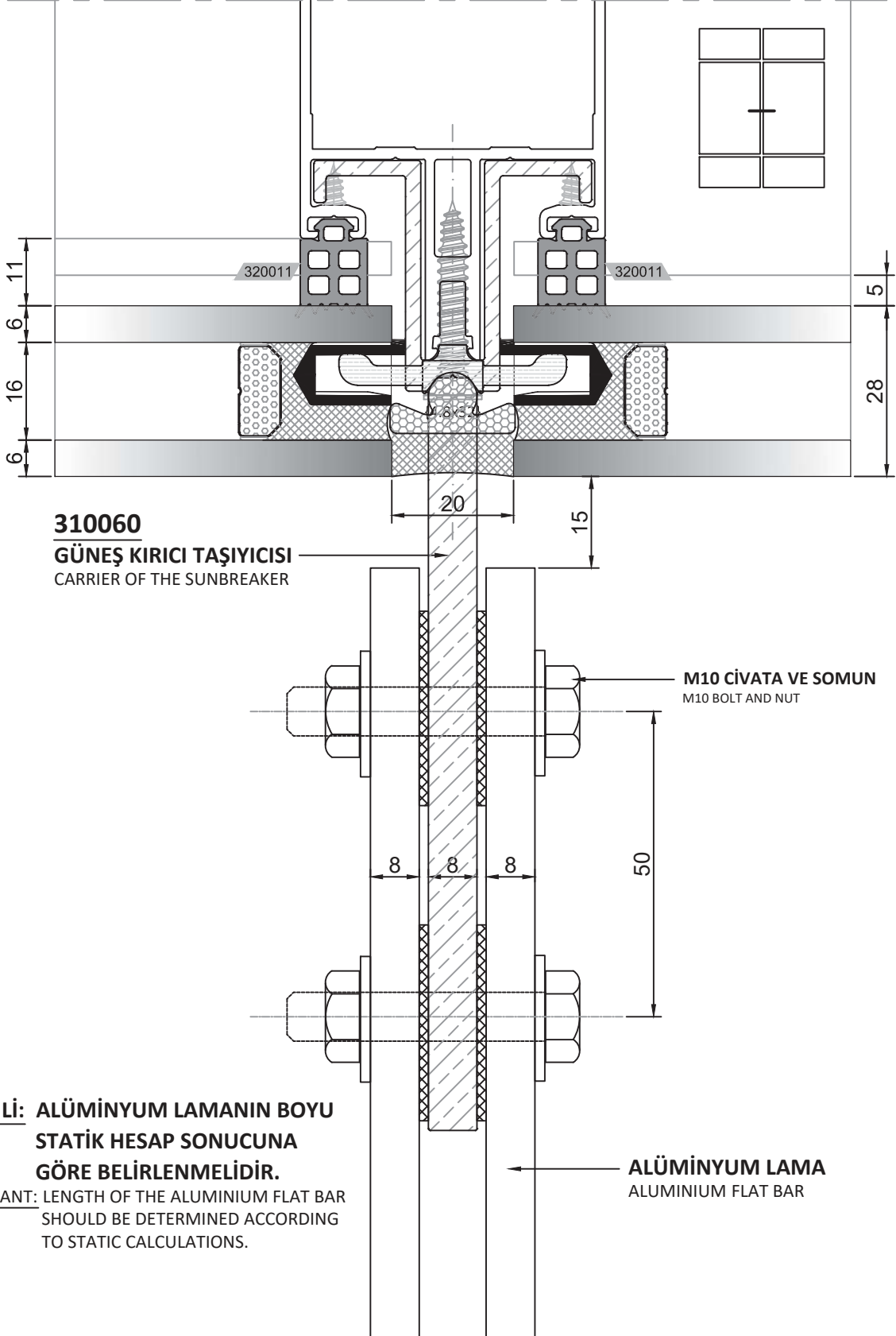


ÖNEMLİ: TAŞIYICI APARATIN UZUNLUĞU (X), ÜZERİNE BAĞLANACAK LAMALARIN GENİŞLİĞİNE VE GÜNEŞ KIRICILARIN UYGULADIĞI TOPLAM AĞIRLIĞA GÖRE HESAPLANMALIDIR.

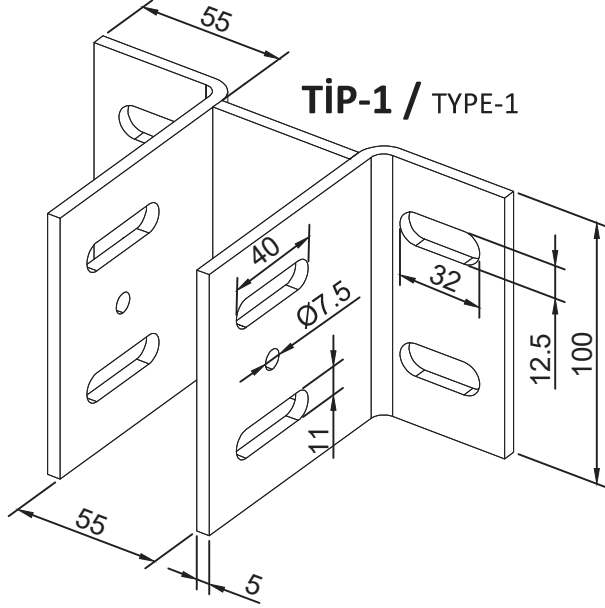
IMPORTANT: LENGTH OF THE CARRIER PART SHOULD BE CALCULATED ACCORDING TO THE WIDTH OF THE ALUMINIUM ROD AND THE TOTAL WEIGHT APPLIED FROM THE SUNBREAKERS.



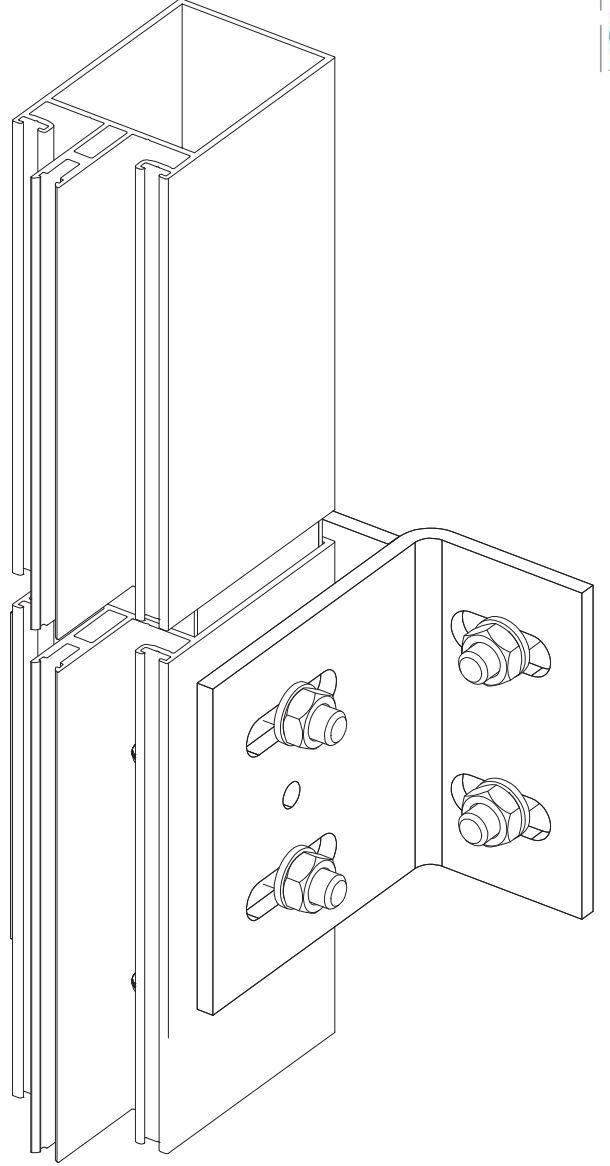
CAM CEPHEDE TAŞIYICI APARAT ÜZERİNE G.KIRICI BAĞLANTI DETAYI SUNBREAKER CONNECTION DETAIL ABOVE THE CARRIER APPARATUS AT THE FOURSIDED C.WALL



**ÖNEMLİ: ALÜMİNYUM LAMANIN BOYU
STATİK HESAP SONUCUNA
GÖRE BELİRLENMELİDİR.**
IMPORTANT: LENGTH OF THE ALUMINIUM FLAT BAR
SHOULD BE DETERMINED ACCORDING
TO STATIC CALCULATIONS.

ANKRAJLAR
ANCHORAGES

TİP-1 / TYPE-1



TİP-2 / TYPE-2

YATAY BAKLALI SABİT ANKRAJ
HORIZONTAL MOVABLE FIXED ANCHORAGE

ÜRÜN KODU PRODUCT CODE	BAYRAK UZUNLUĞU (L) EXTENSION LENGTH (L)
360002	80 mm
360003	100 mm
360004	120 mm
360005	150 mm
360006	200 mm

DÜŞEY BAKLALI SABİT ANKRAJ
VERTICAL MOVABLE FIXED ANCHORAGE

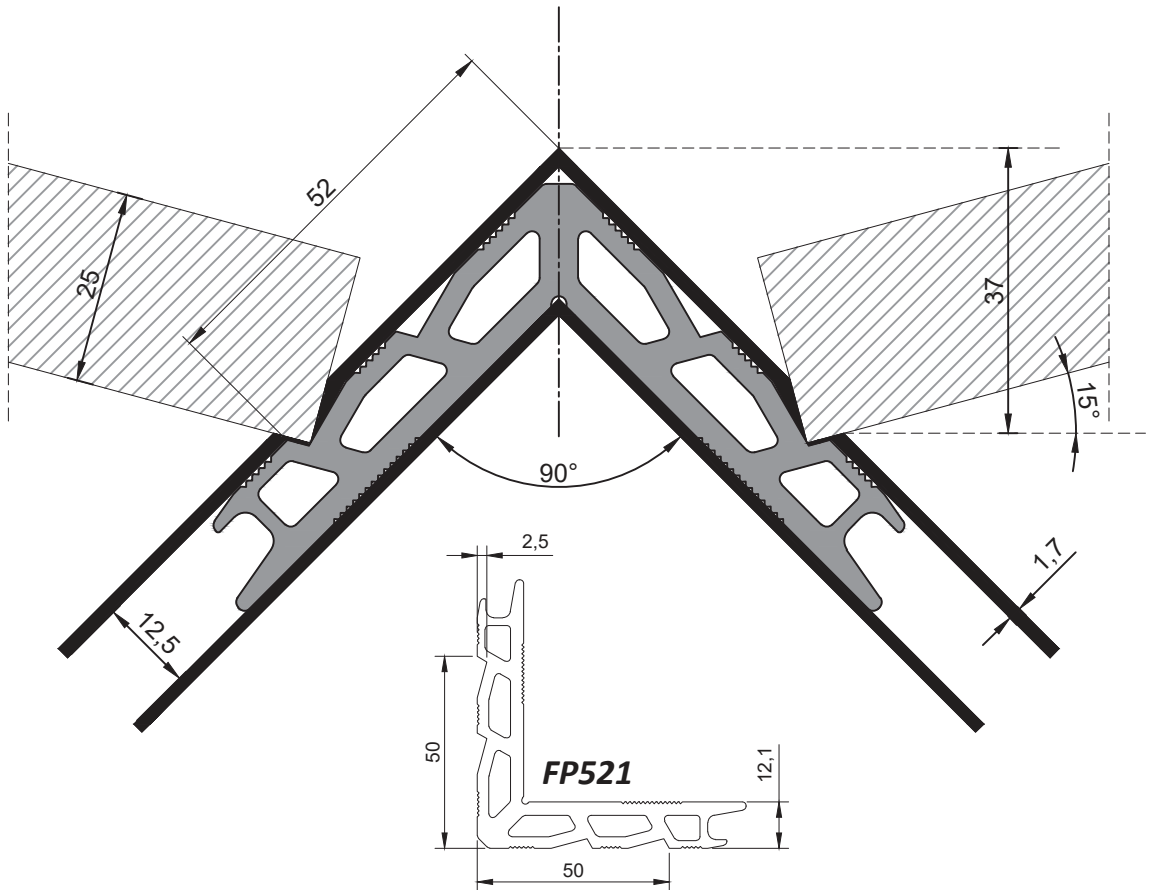
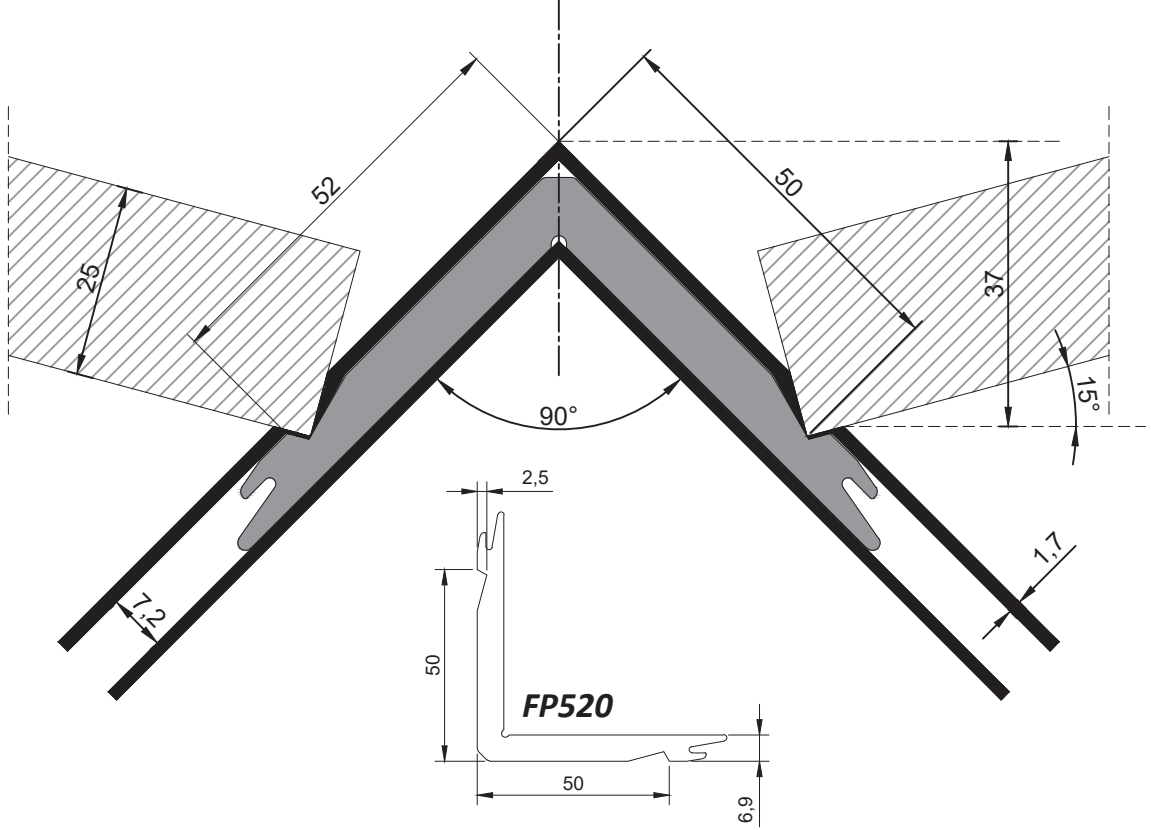
ÜRÜN KODU PRODUCT CODE	BAYRAK UZUNLUĞU (L) EXTENSION LENGTH (L)
360007	80 mm
360008	100 mm
360009	120 mm
360010	150 mm
360011	200 mm

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

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

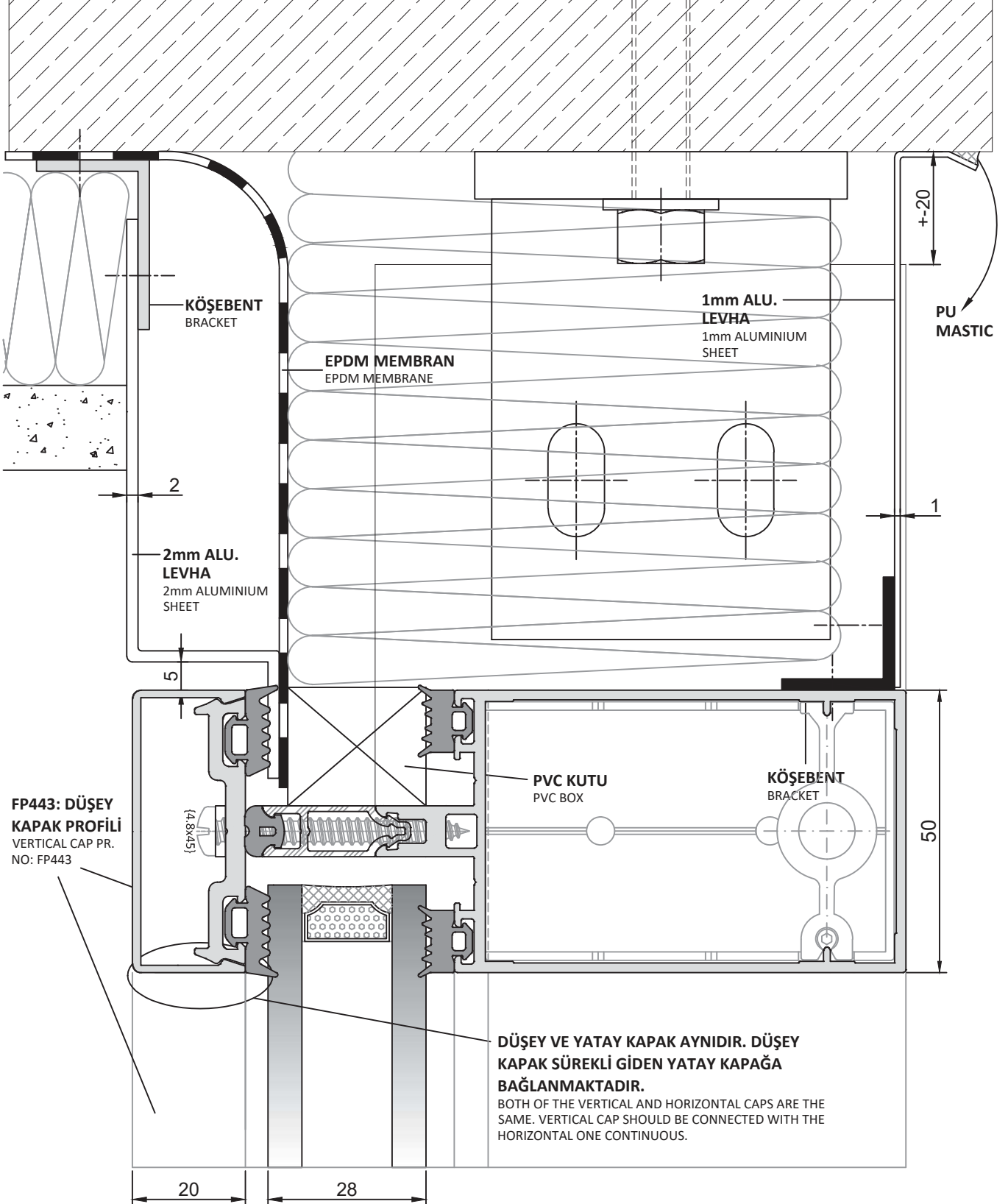
KÖŞE TAKOZU BİRLEŞİM DETAYLARI

CORNER CLEAT CONECTION DETAILS



ÖRNEK CEPHE ÜST BİTİŞ DETAYI

TOP END DETAIL EXAMPLE OF THE CURTAIN WALL



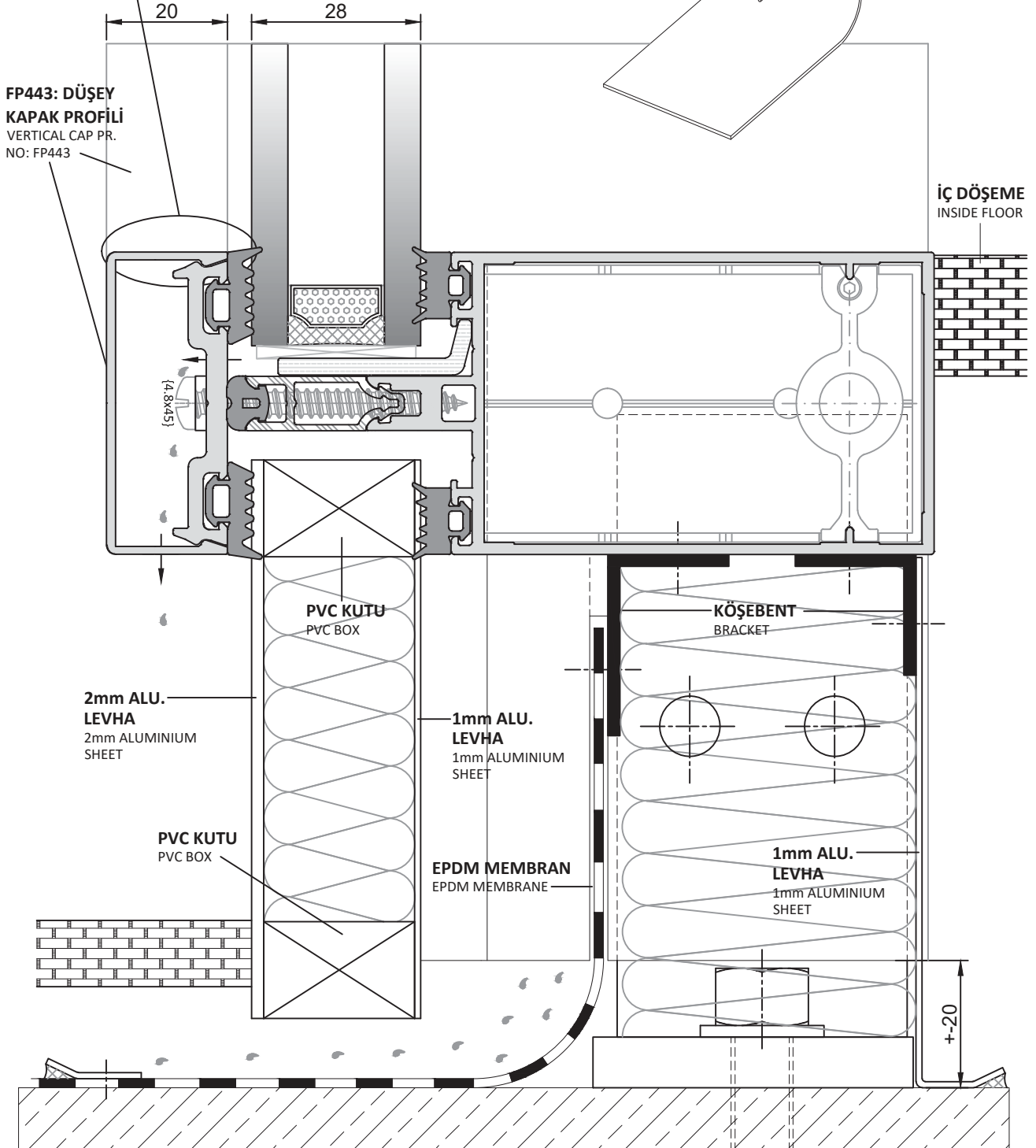
ÖRNEK CEPHE ALT BİTİŞ DETAYI

BOTTOM END DETAIL EXAMPLE OF THE CURTAIN WALL

BU BÖLGEDE DÜŞEY VE YATAY KAPAKLAR AYNIYDUR. DÜŞEY KAPAKLAR SÜREKLİ GİDEN YATAY KAPAĞA BAĞLANMAKTADIR.

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

EPDM MEMBRANIN YERLEŞİMİ
EPDM MEMBRANE POSITIONING



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

Mimari sistem kataloğunda belirtilen detay ve sistem çözümleri haricindeki uygulamalar için Sistem Alüminyum'un onayı alınmalıdır. Aksi takdirde bu uygulamalardan meydana gelebilecek problem ve aksaklıklardan 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.