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ALÜMİNYUM



F50- ENERGY

YÜKSEK YALITIMLI GİYDİRME CEPHE SİSTEMİ

HIGH INSULATED
CURTAIN WALL SYSTEM

Alüminyumun Geleceğinde İmzamız Var!

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AluTech®
System Series

F50-ENERGY

YÜKSEK YALITIMLI GİYDİRME CEPHE SİSTEMİ
HIGH INSULATED CURTAIN WALL SYSTEM

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MİMARİ SİSTEM KATALOGLARI / ARCHITECTURAL SYSTEM CATALOGUES

CEPHE & IŞIKLIK SİSTEMLERİ / FACADE & SKYLIGHT SYSTEMS

F50 ENERGY **YÜKSEK YALITIMLI PERFORMANS CEPHE** HIGH INSULATED PERFORMANCE FACADE	**F50 Energy: Kondens Sistem Kapaklı Cephe /** Capped Curtain Wall System With Condensation Line **F50 Energy: Kondens Sistem Entegre Cephe /** Integrated Curtain Wall System With Condensation Line **F50 Energy: Kondens Sistem Yarı Kapaklı Cephe /** Semi-Capped Curtain System With Condensation Line
F50 CLASSIC **YALITIMLI KLASİK CEPHE** INSULATED CLASSIC FACADE	**F50 Classsic: Klasik Sistem Kapaklı Cephe /** Classic Capped Curtain Wall System **F50 Classic: Klasik Sistem Entegre Cephe /** Classic Integrated Curtain Wall System **F50 Classic: Klasik Sistem Yarı Kapaklı Cephe /** Classic Semi-Capped Curtain Wall System **F50 Classic: Klasik Sistem Kasetli Silikon Cephe /** Classic Silicone Curtain Wall System With Structural Cells
ÇELİK TAKVİYELİ CEPHE & IŞIKLIK SİSTEMLERİ / STEEL REINFORCED & SKYLIGHT SYSTEMS	**ÇT68: Çelik Takviyeli Cephe /** Steel Reinforced Curtain Wall **ÇT94: Çelik Takviyeli Cephe /** Steel Reinforced Curtain Wall **SKY50: Işıklık Sistemi /** Skylight System **SKY78: Işıklık Sistemi (Çelik Takviyeli) /** Skylight System (Steel Reinforced)

KAPI & PENCERE SİSTEMLERİ / DOOR & WINDOW SYSTEMS

W55 YALITIMLI&Y.SIZ PENCERE & KAPI / W55 INSULATED&UNINSULATED WINDOW & DOOR	**W1-W55-1,6T: Yalıtımlı P. ve K. /** Insulated W. and D. / **W2-W55-1,6: Y.sız P. ve K. /** Uninslated W. and D. **W3-W55-2T: Yalıtımlı P. ve K. /** Insulated W. and D. / **W4-W55-2: Y.sız P. ve K. /** Uninsulated W. and D.
W65 YALITIMLI PENCERE & KAPI / W65 INSULATED WINDOW & DOOR	**W5-W65-1,6T: Yalıtımlı Pencere ve Kapı /** Insulated Window and Door **W6-W65-2T: Yalıtımlı Pencere ve Kapı /** Insulated Window and Door
W75 YALITIMLI PENCERE & KAPI / W75 INSULATED WINDOW & DOOR	**W7-W75-1,6T: Yalıtımlı Pencere ve Kapı /** Insulated Window and Door **W8-W75-2T: Yalıtımlı Pencere ve Kapı /** Insulated Window and Door
WH70 YALITIMLI PENCERE & KAPI / WH70 INSULATED WINDOW & DOOR	**WH 70: Yalıtımlı Pencere ve Kapı Sistemi /** Insulated Window and Door System
WH85 YALITIMLI PENCERE & KAPI / WH85 INSULATED WINDOW & DOOR	**WH 85: Yüksek Yalıtımlı Pencere ve Kapı Sistemi /** High Insulated Window and Door System
BF85 KATLANIR KAPI SİSTEMİ / BF85 BI-FOLDING DOOR SYSTEM	**BF 85: Isı Yalıtımlı Katlanır Kapı Sistemi /** BF 85: Insulated Folding Door System

SÜRME SİSTEMLER / SLIDING SYSTEMS

S45 YALITIMLI & YALITIMSIZ SÜRME / S45 INSULATED & UNINSULATED SLIDING	**S1-S45-T: Yalıtımlı Sürme Kapı (Kaldır&Sür ve Klasik) /** Insulated Sliding Door (Lift&Slide and Classic) **S2-S45: Yalıtımsız Sürme Kapı (Kaldır&Sür ve Klasik) /** Uninsulated Sliding Door (Lift&Slide and Classic)
S65 YALITIMLI SÜRME / S65 INSULATED SLIDING	**S3-S65-T: Yalıtımlı Sürme Kapı (Kaldır&Sür) /** Insulated Sliding Door (Lift&Slide)
S32 YALITIMLI & YALITIMSIZ SÜRME / S32 INSULATED & UNINSULATED SLIDING	**S5-S32-T: Yalıtımlı & Yalıtımsız Klasik Hafif Sürme Kapı /** Insulated & Uninsulated Classic Light Sliding Door
S80 YALITIMLI SÜRME / S80 INSULATED SLIDING	**S80-Teona: Yüksek Yalıtımlı Performans Sürme Kapı /** High Insulated Performace Sliding Door **(ECOSLIDE)**

OFİS BÖLME SİSTEMLERİ / OFFICE PARTITION SYSTEMS

YALITIMSIZ SİSTEMLER / UNINSULATED SYSTEMS	**OB1-120: Strukturel Ofis Bölme Sistemi /** Structural Office Partition System **OB2-105: Çeçeveli Ofis Bölme Sistemi /** Framed Office Partition System **OB3-83: Kapaklı Ofis Bölme Sistemi /** Capped Office Partition System **OB4-45: Cam Cama Ofis Bölme Sistemi /** Glass Office Partition System

CEPHE KAPLAMA / FACADE CLADDING

Kompozit Panel Taşıyıcı Sistemi / Composite Panel Carriage System
Terracotta Cephe Kaplama Sistemi / Terracotta Facade Cladding System
Seramik Cephe Kaplama Sistemi / Ceramic Facade Cladding System

TAMAMLAYICI MİMARİ SİSTEMLER / COMPLEMENTARY ARCHITECTURAL SYSTEMS

YALITIMSIZ SİSTEMLER / UNINSULATED SYSTEMS	**G120 Giyotin Sistem /** G120 Guillotine System **Isı Camlı Cam Balkon Sistemi /** Double Glazing Balcony System **Kare Küpeşte ve Korkuluk Sistemleri /** Square Railing and Balustrade Systems **Menfez Sistemleri /** Louver Systems **Pervazlı Kapı Sistemleri /** Door Sill Systems **Güneş Kırıcı Sistem /** Sunbreaker System **C60 Yalıtımsız Doğrama Sistemleri /** C60 Uninsulated Hinged Systems

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30 yıllık deneyimi ve yenilikçi vizyonuyla alanına liderlik eden Sistem Alüminyum, Tekirdağ Ergene'de 120 bin metrekaresi kapalı olmak üzere toplam 330 bin metrekarelik alana kurulu tesislerinde üretim faaliyetlerini sürdürmektedir. Kalıp üretiminden başlayarak dökümhane - alüminyum billet, ekstrüzyon hatları, elektrostatik toz boya ve eloksal tesisleri, ahşap kaplama bölümü, mekanik işlem tesisi ve kompozit panel üretim hatlarını bünyesinde barındıran üretim üssü, tam entegre yapısıyla öne çıkmaktadır.

Sistem Alüminyum, mimari ve endüstriyel uygulamalarda kullanılan alüminyum ekstrüzyon profiller ve cephe sistemleri için alüminyum kompozit paneller olmak üzere iki ana ürün grubunda üretim yapmaktadır. Bunlara ek olarak, 2021 yılı itibariyle Dövme (forging) Alüminyum Tesisi'ni de faaliyete geçirmiştir.

İhracat satış rakamları ile İDDMİB tarafından düzenlenen "İhracatın Metalik Yıldızları" ödül törenlerinde, "Alüminyum Çubuk ve Profiller" kategorisinde 2018, 2019, 2020, 2022 ve 2024 yıllarında birincilik, 2021 ve 2023 yılında ise ikincilik ödülüne layık görülmüştür. Bugün 4 kıtada, 75'ten fazla ülkeye ihracat gerçekleştirmektedir. İstanbul Sanayi Odası tarafından hazırlanan 'Türkiye'nin En Büyük 500 Sanayi Kuruluşu' listesinde Sistem Alüminyum, 2024 yılında 313'üncü sırada yer aldı.

Sistem Alüminyum, yıllık 103 bin ton alüminyum profil üretim kapasitesine sahip tesislerinde; yapı, havacılık, denizcilik, otomotiv, beyaz eşya, elektrik ve enerji gibi birçok sektör için ürün ve hizmet geliştirmektedir.

CE, TSE, QUALICOAT (statik toz boya uygulamaları) ve QUALANOD (eloksal uygulamaları) belgelerine sahip olan Sistem Alüminyum, 2024 yılında devlet destekli Turquality Marka Destek Programı'na dahil olmuştur.

Ayrıca aşağıdaki yönetim sistemleri belgelerine sahiptir:

- IATF 16949 Otomotiv Kalite Yönetim Sistemi
- AS 9100 Havacılık, Savunma ve Uzay Kalite Yönetim Sistemi
- ISO 9001 Kalite Yönetim Sistemi
- ISO 14001 Çevre Yönetim Sistemi
- ISO 45001 İş Sağlığı ve Güvenliği Yönetim Sistemi
- ISO 50001 Enerji Yönetim Sistemi
- ISO/IEC 27001 Bilgi Güvenliği Yönetim Sistemi

Sistem Alüminyum, CE, UKCA ve TSE belgeleriyle ürün kalitesini güvence altına almaktadır. Ek olarak, üretim süreçlerinde yer alan ve ağır metal içerebilen kimyasalların, yalnızca yasal sınırlar dahilinde ve REACH ile RoHS kısıtlamalarına uygun şekilde kullanıldığını, doğaya saygılı üretim anlayışını benimsediğini taahhüt etmektedir. Müşteri taleplerine istinaden, statik toz boya uygulamaları için QUALICOAT, eloksal uygulamaları için ise QUALANOD belgelerini sunmaktadır.

Yetkilendirilmiş Yükümlü Statüsü (YYS) belgesi ile Sistem Alüminyum, dış ticarette güvenilirlik ve uygunluk esaslarına göre ihracat yapmaktadır.

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With 30 years of experience and an innovative vision, Sistem Alüminyum leads its sector from its production facilities located in Ergene, Tekirdağ, spanning a total area of 330,000 square meters, including 120,000 square meters of indoor space. As a fully integrated manufacturing hub, it houses all key operations from die production to aluminum billet casting, extrusion lines, electrostatic powder coating and anodizing facilities, wood effect coating, mechanical processing plant, and aluminum composite panel production lines.

Sistem Alüminyum operates under two main product groups: aluminum extrusion profiles for architectural and industrial applications, and aluminum composite panels for façade systems. Additionally, as of 2021, the company launched its Forging Aluminum Facility.

Recognized for its export achievements, Sistem Alüminyum received first place awards in the “Aluminum Bars and Profiles” category at the “Metallic Stars of Export” ceremonies organized by IDDMIB in 2018, 2019, 2020, 2022, and 2024, and secured second place in 2021, 2023. Today, the company exports to over 75 countries across 4 continents. Ranked 313th in the 'Top 500 Industrial Enterprises of Turkey 2024 ' list by the Istanbul Chamber of Industry, Sistem Alüminyum has an annual production capacity of 103,000 tons of aluminum profiles, serving industries such as construction, aerospace, marine, automotive, white goods, electrical, and energy.

Sistem Alüminyum holds CE, TSE, QUALICOAT (for powder coating), and QUALANOD (for anodizing) certifications and was included in the state-supported Turquality Brand Support Program in 2024.

The company also holds the following management system certifications:

- IATF 16949 Automotive Quality Management System
- AS 9100 Aerospace, Defense and Space Quality Management System
- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- ISO 45001 Occupational Health and Safety Management System
- ISO 50001 Energy Management System
- ISO/IEC 27001 Information Security Management System

Sistem Alüminyum ensures product quality through CE, UKCA, and TSE certifications. Furthermore, the company commits to environmentally responsible production by ensuring that chemicals potentially containing heavy metals are used only within legal limits and in compliance with REACH and RoHS regulations. Upon customer request, QUALICOAT certificates for powder coating and QUALANOD certificates for anodizing applications are provided.

With its Authorized Economic Operator (AEO) status, Sistem Alüminyum conducts its foreign trade operations in accordance with reliability and compliance principles.

AluTech® System Series | AluTech® bond Aluminium Composite Panel

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TEKNİK ÖZELLİKLER
TECHNICAL PROPERTIES

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

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

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.

INNOVATIVE DESIGN

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

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.

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 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.

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.

GELİŞTİRİLEBİLİRLİK

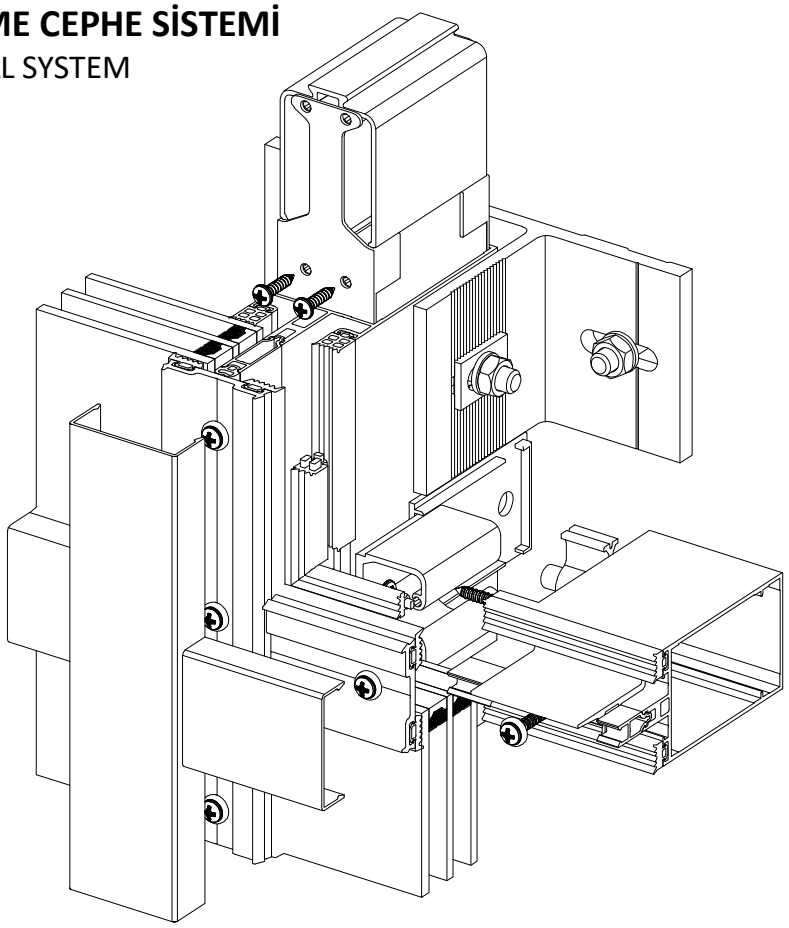
F50 - ENERGY, genel sistem konsepti olarak kolaylıkla genişletilebilir yapıdadır. Bu sayede eklenecek yeni çözümlerinin sisteme adaptesi hızlı biçimde yapılabilmektedir.

IMPROVABILITY

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

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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 BARİYERLERİ / INSULATION BARS :	**4 mm - 28 mm**
ISI YALITIM DEĞERİ (Uf) / THERMAL INS. VALUE (Uf) :	**1,7 W/m²K - 2,9 W/m²K**

KULLANIM SEÇENEKLERİ
APPLICATION ALTERNATIVES

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

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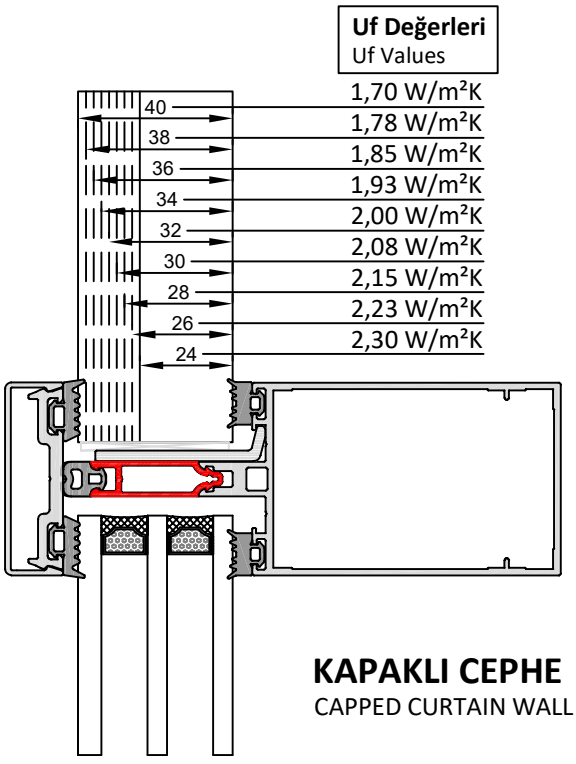
ISI YALITIM DEĞERLERİ
THERMAL INSULATION VALUES

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 perfromansı, kullanılan cam kalınlığı ile doğrudan ilgilidir. Dolayısıyla camlar kalınlaştıkça ısı iletim katsayısı (Uf) düşer ve ısı yalıtım performansı artar.

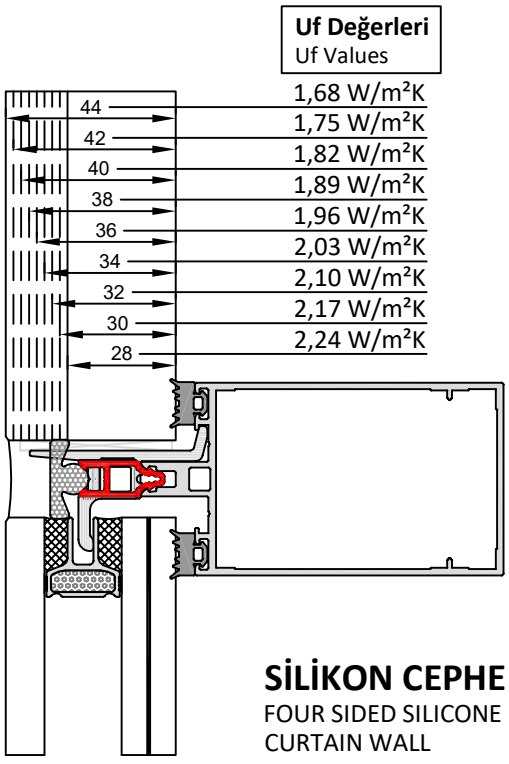
Aşağıdaki sistem kesitleri üzerinde Uf değerinin cam kalınlığına bağlı olarak ne ölçüde değiştiği görülmektedir.

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.

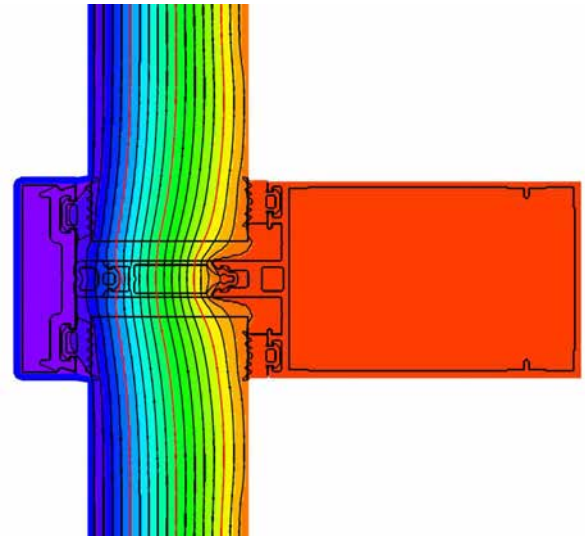
You may see below; the Uf value variations according to the glass thickness.

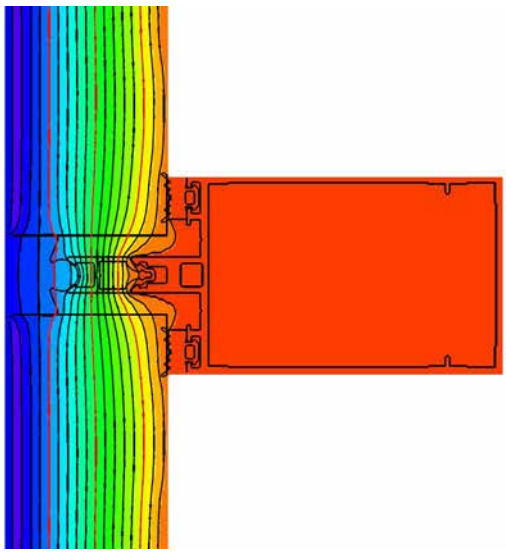


KAPAKLI CEPHE
CAPPED CURTAIN WALL



SİLİKON CEPHE
FOUR SIDED SILICONE CURTAIN WALL





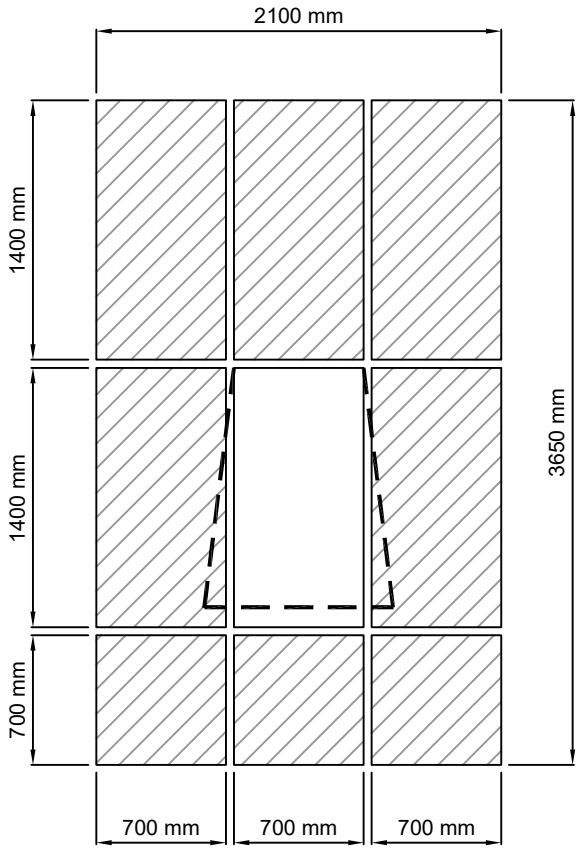
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HAVA-SU-RÜZGAR PERFORMANS TEST SONUÇLARI - 1
AIR-WATER-WIND PERFORMANCE TEST RESULTS - 1

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

Test Numunesinin Ebatları
Test Sample Dimensions





Kapaklı Cephe / Capped Curtain Wall
Genişlik / Width: **2150 mm**
Yükseklik / Height: **3650 mm**

KAPAKLI CEPHE TEST SONUÇLARI
CAPPED CURTAIN WALL TEST RESULTS

HAVA GEÇİRGENLİĞİ - EN 12152 (AIR PERMEABILITY)	**A1** (150 Pa)	**A2** (300 Pa)	**A3** (450 Pa)	**A4** (600 Pa)	**AE** (750 Pa)	
SU SIZDIRMAZLIĞI - EN 12154 (WATERTIGHTNESS)	**R4** (150 Pa)	**R5** (300 Pa)	**R6** (450 Pa)	**R7** (600 Pa)	**RE...** (750+ Pa)	**RE1500** (1500 Pa)
RÜZGAR YÜKÜNE DAYANIM - EN 13116 (RESISTANCE TO WIND LOAD)	**2000 Pa** (Emniyet Testi: 3000 Pa)					

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

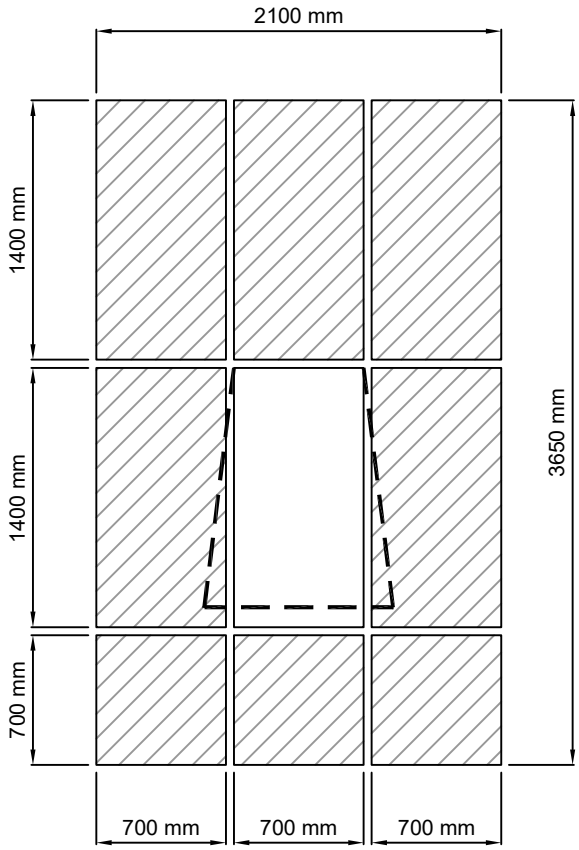
Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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HAVA-SU-RÜZGAR PERFORMANS TEST SONUÇLARI - 2
AIR-WATER-WIND PERFORMANCE TEST RESULTS - 2

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)					

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

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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

AKUSTIK 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

AKUSTIK 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.

Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
Profile weights at the catalogue are theoretical, pre-shipment values will be valid.
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F50-ENERGY

YÜKSEK YALITIMLI GİYDİRME CEPHE SİSTEMİ
HIGH INSULATED CURTAIN WALL SYSTEM

SİSTEMİN ÖNE ÇIKAN ÖZELLİKLERİ
PROMINENT PROPERTIES OF THE SYSTEM

1. **KOLAY VİDALAMA**
   EASY SCREW

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

3. **CAM CEPHEDE SICAK KENAR ANTİ YOĞUŞMA ÇITASI KULLANIMI**
   WARM EDGE SPACER USAGE IN FOURSIDED SILICONE CURTAIN WALL

4. **DIŞA PARALEL AÇILIR KANAT**
   PARALEL OUTWARD OPENING VENT

5. **ÖZEL DİLATASYON KAPAKLARI**
   SPECIAL DILATATION PLUGS

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

7. **VULKANİZE İÇ KÖŞE PARÇALARI**
   VULCANISED INNER CORNER PIECES

Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
Profile weights at the catalogue are theoretical, pre-shipment values will be valid.
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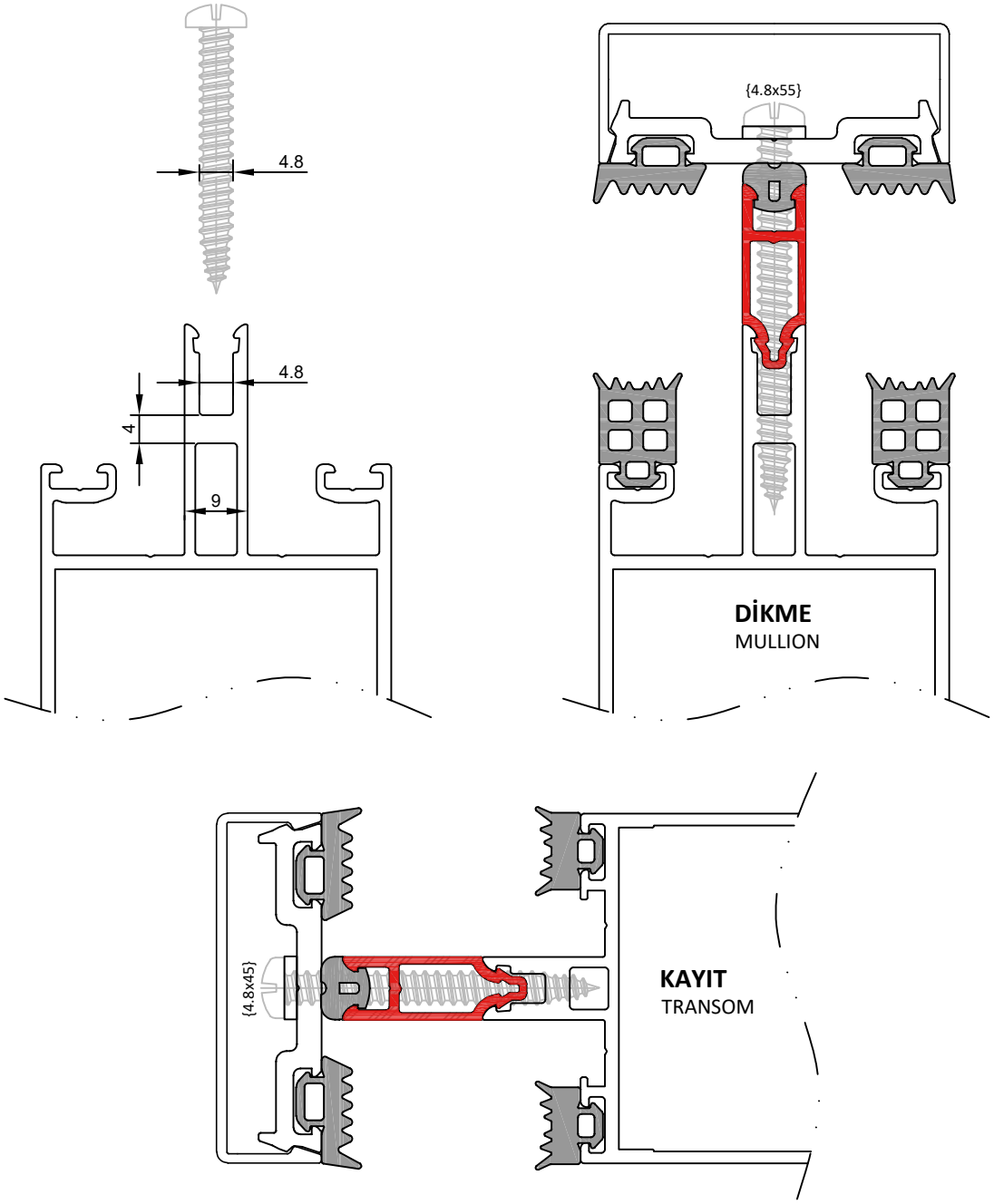
KOLAY VİDALAMA
EASY SCREW

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.



Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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AYNI KASADA YALITIMLI VEYA YALITIMSIZ KANAT KULLANILABİLME İMKANI
INSULATED AND UNINSULATED VENT PROFILES CAN BE USING WITH THE SAME FRAME

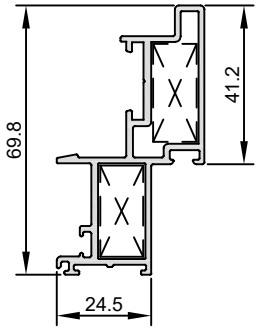
Cephe sistemlerinde kanat bölgeleri termal açıdan en zayıf bölgelerdir. Bu bölgede yaşanılan terleme sorunları genellikle kasa yalıtımındaki zafiyetlerden ötürü gerçekleşmektedir.

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.

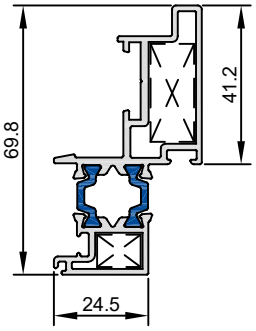
Thermally the weakest point in the curtain wall systems are opening vent areas. The condensation problems are usually result from the heat insulation issues on the frame.

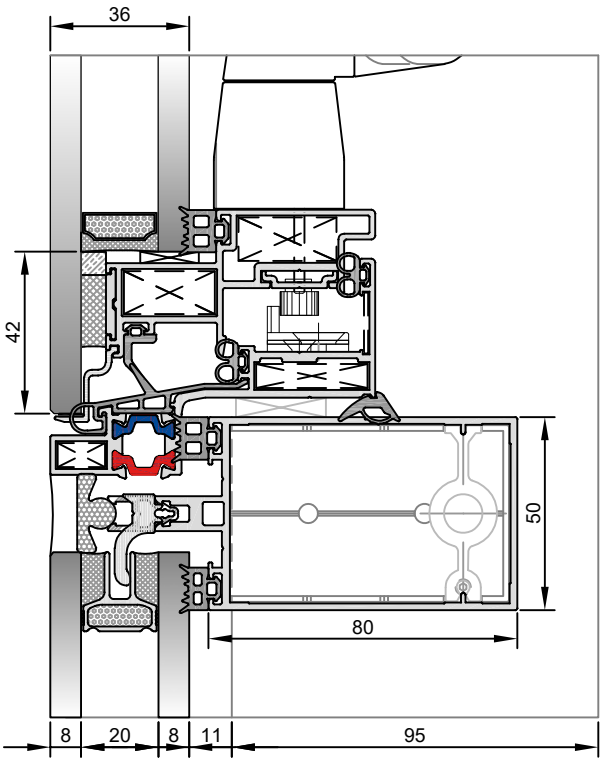
F50 - Energy system's frame profiles are always heat insulated. Even uninsulated vent applications, the condensation risk is minimum.

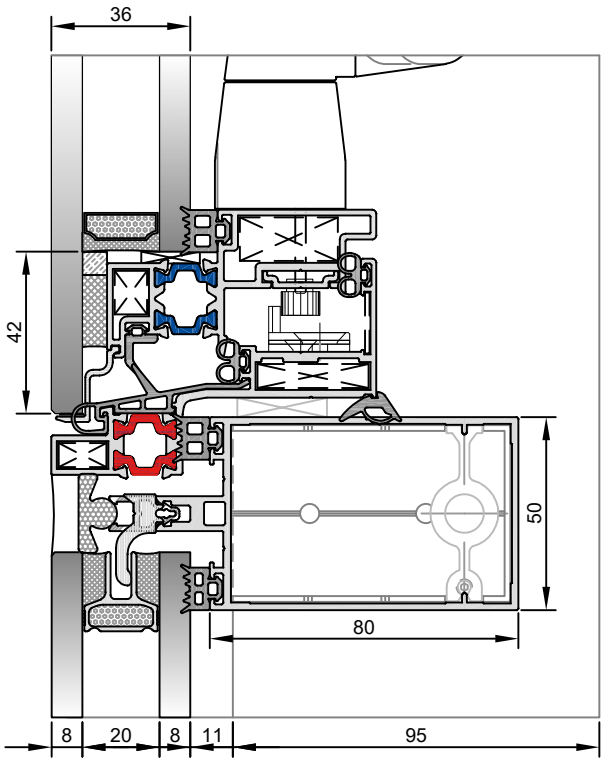
Isı Yalıtımsız Kanat
Uninsulated Vent



Isı Yalıtımlı Kanat
Heat Insulated Vent







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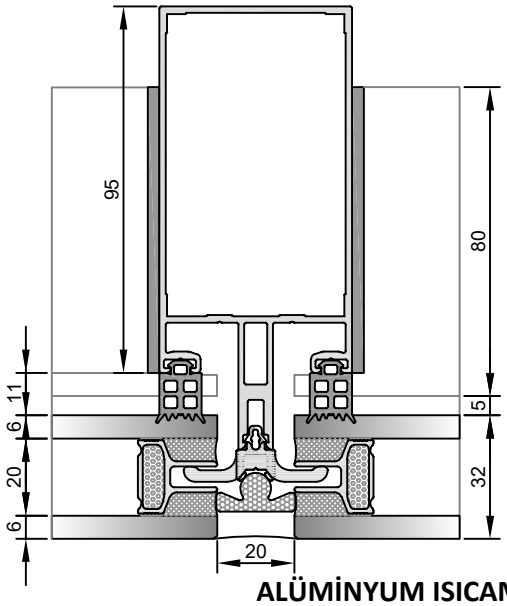
CAM CEPHEDE SICAK KENAR ANTİ YOĞUŞMA ÇITASI KULLANIMI
WARM EDGE SPACER USAGE IN FOURSIDED SILICONE CURTAIN WALL

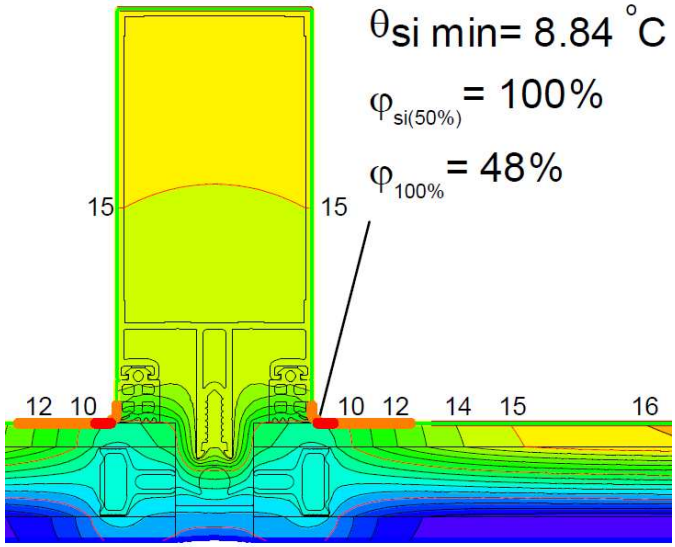
Silikon cam cephelerde ısı yalıtımını sağlayan en büyük etmen camdır. Alüminyum ısıcam çıtaları iç ve dış camlar arasında ısı köprüsü oluşturduğundan soğuk bölgelerde iç ortamın hızla ısı kaybetmesine neden olur.

F50 - Energy sistemi sahip olduğu özel plastik kilitleme yuvaları sayesinde pvc malzemeden yapılmış olan sıcak kenar ısıcam çıtalarının 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.

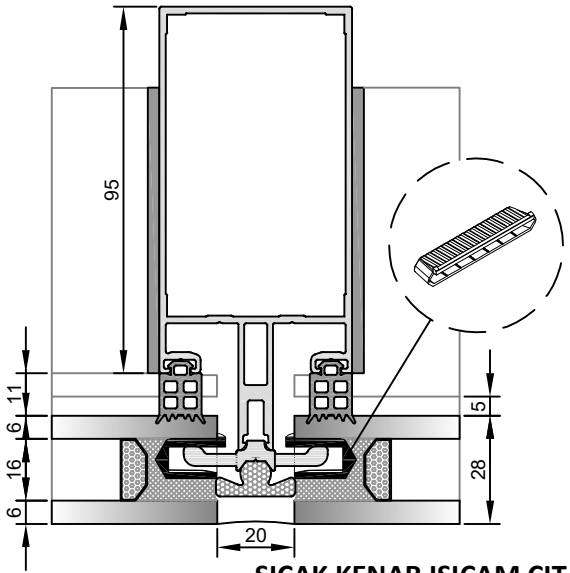


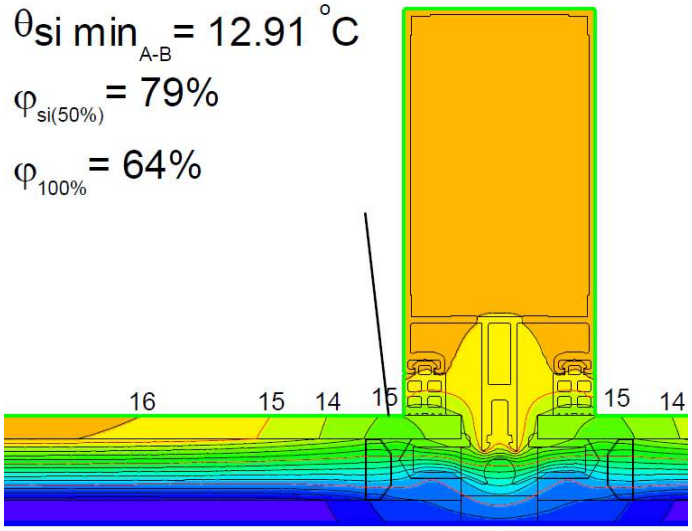


ALÜMİNYUM ISICAM ÇITASI
STANDARD ALUMINIUM SPACER

* **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 (Qsi 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 (Qsi 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.

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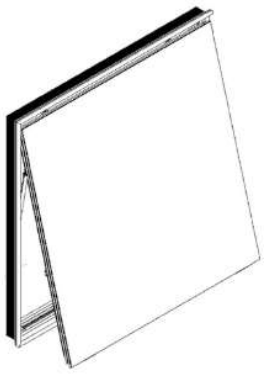
DIŞA PARALEL AÇILIR KANAT
PARALEL OUTWARD OPENING VENT

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

Ters vasistas tip kanatlarda cepheye dışarıdan 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 vasistasa oranla 3 kat fazladır. Bu da odanın çok daha hızlı havalanması anlamına gelmektedir.

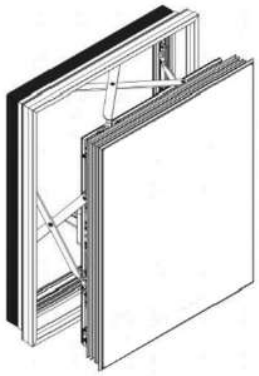
Top hung outward opening hidden vent is the conventional low cost solution for the curtain walls. But it has disadvantages related to ventilation and aesthetic appearance.

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.



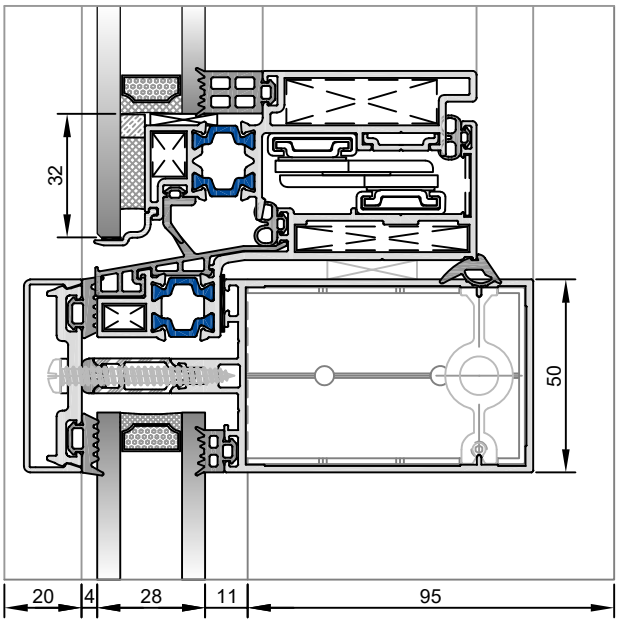
Dışa Ters Vasistas Açılım
Top hung outward opening





Dışa Paralel Açılım
Paralel Outward Opening

PARALEL KANAT DETAYI / PARALEL VENT DETAIL:



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

ÖRNEK UYGULAMA / SAMPLE APPLICATION:



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ÖZEL DİLATASYON KAPAKLARI
SPECIAL DILATATION PLUGS

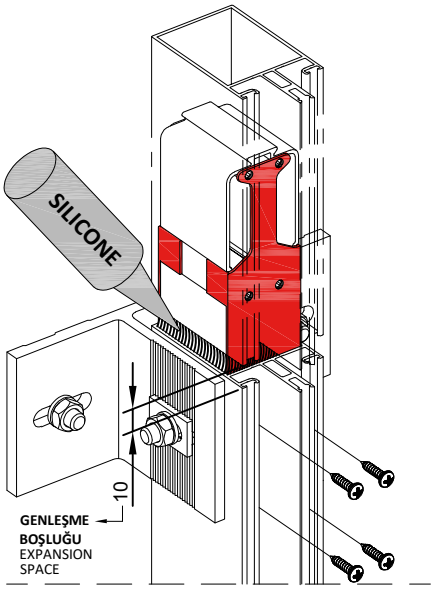
1. BOŞLUKSUZ SİLİKON UYGULAMASI /
GAP FREE SILICONE APPLICATION

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.



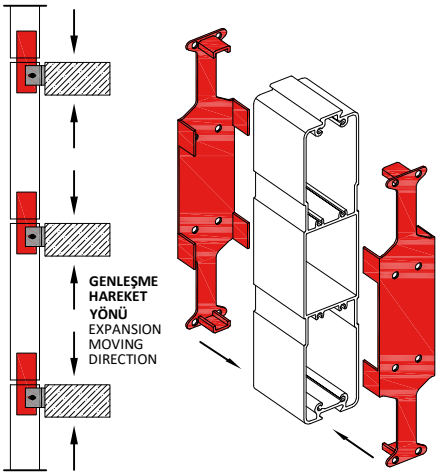
2. GENLEŞME GÜRÜLTÜSÜ ENGELLEME /
PREVENTING EXPANSION NOISE

Gündüz ısınan taşıyıcı profiller akşam üstünden itibaren ısılarını kayberek eski hallerine dönmeye çalışırlar. Bu hareket esnasında dilatasyon bölgesinde metal metale sürtünmelerden kaynaklı tıkırtı 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.

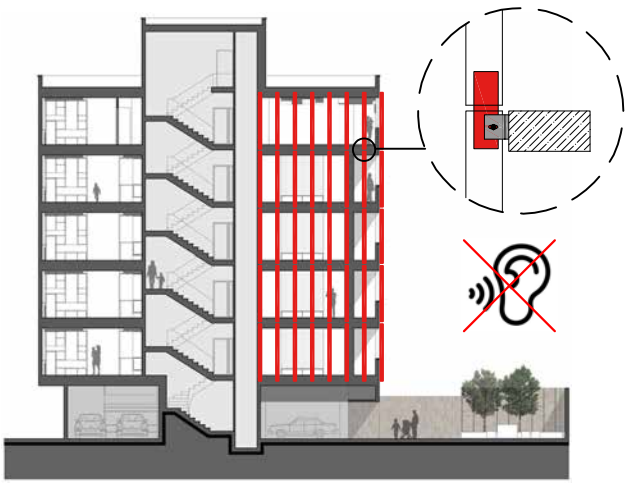


3. KATLAR ARASI SES İZOLASYONU /
SOUND ISOLATION BETWEEN FLOORS

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 sönümmekte, 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.

Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
Profile weights at the catalogue are theoretical, pre-shipment values will be valid.
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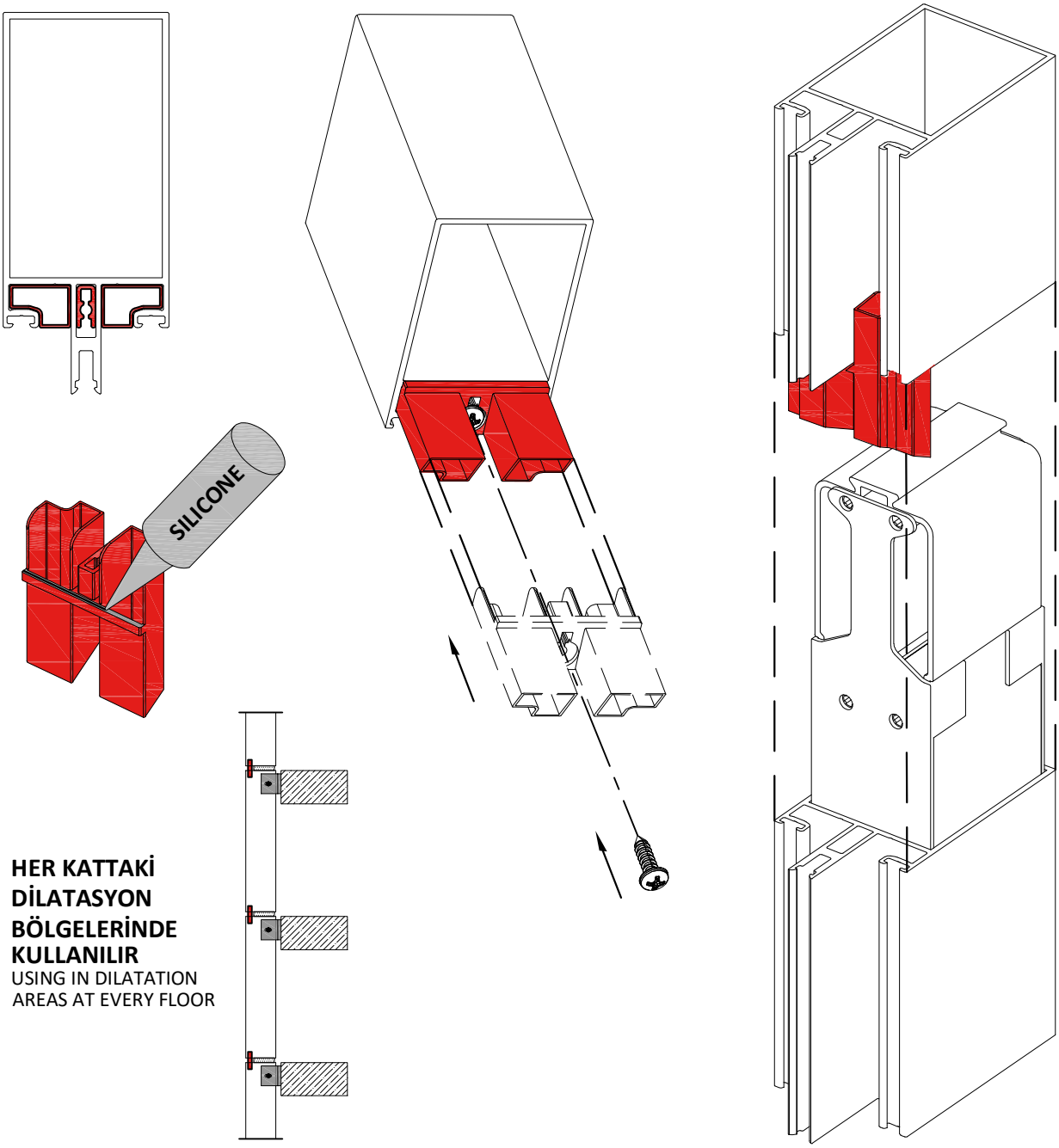
KONDENS YOLU İÇİN ÖZEL BAĞLANTI PARÇASI
SPECIAL CONNECTION PIECE FOR THE CONDENSATION LINE

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.



HER KATTAKİ DİLATASYON BÖLGELERİNDE KULLANILIR
USING IN DILATATION AREAS AT EVERY FLOOR

Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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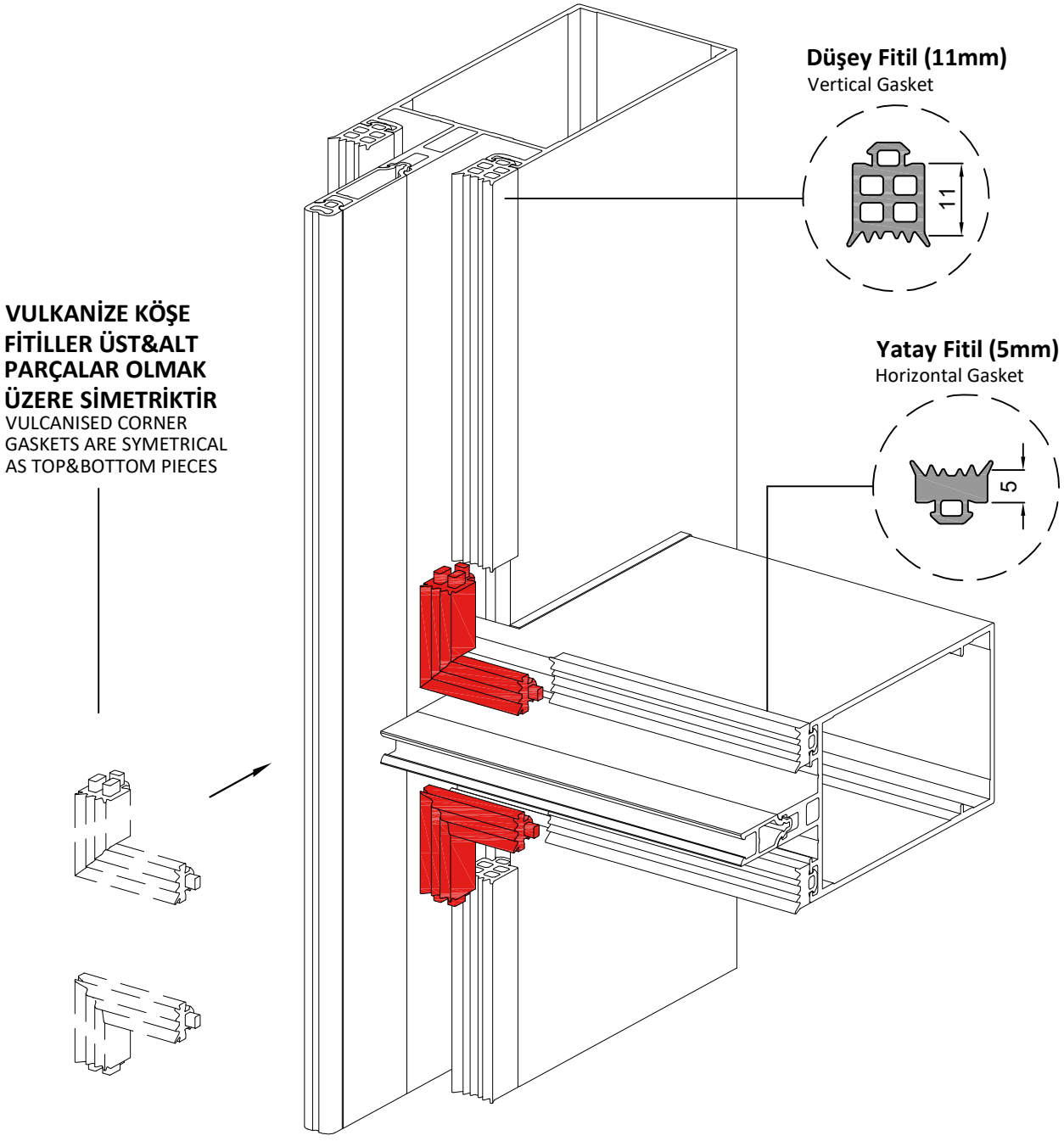
VULKANİZE İÇ KÖŞE PARÇALARI
VULCANISED INNER CORNER PIECES

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



Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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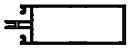
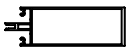
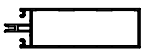
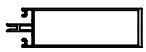
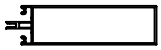
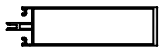
PROFILE INDEX

- **KATALOGDA BELİRTİLEN TÜM PROFİL AĞIRLIKLARI TEORİK OLUP PROFİLLERİN PRES(HAM) HALLERİNE AİTTİR. ISI BARİYERİ ÇEŞİDİNE VEYA PROFİL YÜZEYİNDEKİ BOYA KALINLIKLARINA BAĞLI OLARAK AĞIRLIK FARKLILIKLARI OLUŞABİLMEKTEDİR.**
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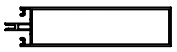
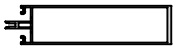
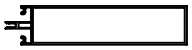
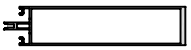
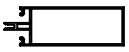
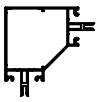
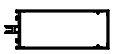
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PROFİL FİHRİSTİ / PROFILE INDEX

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	27
FP102	DİKME PROFİLİ (55 mm/1.7 mm) MULLION PROFILE		1,467	27
FP103	DİKME PROFİLİ (55 mm/2 mm) MULLION PROFILE		1,568	27
FP104	DİKME PROFİLİ (75 mm/1.7 mm) MULLION PROFILE		1,651	28
FP105	DİKME PROFİLİ (75 mm/2 mm) MULLION PROFILE		1,785	28
FP106	DİKME PROFİLİ (95 mm/1.7 mm) MULLION PROFILE		1,835	28
FP107	DİKME PROFİLİ (95 mm/2 mm) MULLION PROFILE		2,001	28
FP108	DİKME PROFİLİ (115 mm/1.7 mm) MULLION PROFILE		2,081	29
FP109	DİKME PROFİLİ (115 mm/2 mm) MULLION PROFILE		2,343	29
FP110	DİKME PROFİLİ (135 mm/1.7 mm) MULLION PROFILE		2,291	30
FP111	DİKME PROFİLİ (135 mm/2 mm) MULLION PROFILE		2,684	30
FP112	DİKME PROFİLİ (155 mm/1.8 mm) MULLION PROFILE		2,594	31
FP113	DİKME PROFİLİ (155 mm/2 mm) MULLION PROFILE		2,963	31
FP114	DİKME PROFİLİ (175 mm/2.1 mm) MULLION PROFILE		3,004	32
FP115	DİKME PROFİLİ (175 mm/2.1 mm) MULLION PROFILE		3,327	32

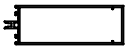
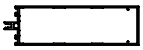
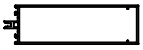
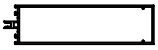
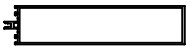
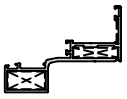
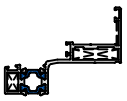
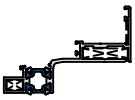
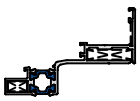
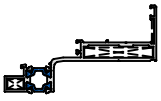
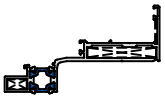
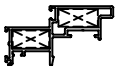
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PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP116	DİKME PROFİLİ (195 mm/2.3 mm) MULLION PROFILE		3,449	33
FP117	DİKME PROFİLİ (195 mm/2.3 mm) MULLION PROFILE		3,756	33
FP118	DİKME PROFİLİ (215 mm/2.4 mm) MULLION PROFILE		3,915	34
FP119	DİKME PROFİLİ (215 mm/2.4 mm) MULLION PROFILE		4,283	34
FP120	DİKME PROFİLİ (135 mm/2 mm) MULLION PROFILE		2,459	41
FP125	KÖŞE DÖNÜŞ PROFİLİ (75 mm) CORNER PROFILE		2,366	35
FP126	KÖŞE DÖNÜŞ PROFİLİ (95 mm) CORNER PROFILE		2,681	35
FP151	KAYIT PROFİLİ (5.5 mm) TRANSOM PROFILE		0,567	36
FP152	KAYIT PROFİLİ (20 mm/1.7 mm) TRANSOM PROFILE		0,933	36
FP153	KAYIT PROFİLİ (40 mm/1.7 mm) TRANSOM PROFILE		1,123	36
FP154	KAYIT PROFİLİ (50 mm/1.6 mm) TRANSOM PROFILE		1,161	36
FP155	KAYIT PROFİLİ (60 mm/1.7 mm) TRANSOM PROFILE		1,308	37
FP156	KAYIT PROFİLİ (80 mm/1.7 mm) TRANSOM PROFILE		1,515	37
FP157	KAYIT PROFİLİ (100 mm/1.7 mm) TRANSOM PROFILE		1,699	37
FP158	KAYIT PROFİLİ (120 mm/1.7 mm) TRANSOM PROFILE		1,884	37

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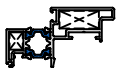
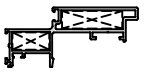
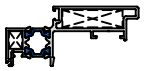
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PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP159	KAYIT PROFİLİ (140 mm/2 mm) TRANSOM PROFILE		2,289	38
FP160	KAYIT PROFİLİ (160 mm/1.6 mm) TRANSOM PROFILE		2,227	38
FP161	KAYIT PROFİLİ (160 mm/2.1 mm) TRANSOM PROFILE		2,601	39
FP162	KAYIT PROFİLİ (180 mm/2.1 mm) TRANSOM PROFILE		2,828	39
FP163	KAYIT PROFİLİ (200 mm/2.1 mm) TRANSOM PROFILE		3,230	40
FP164	KAYIT PROFİLİ (220 mm/2.4 mm) TRANSOM PROFILE		3,785	40
FP165	KAYIT PROFİLİ (100 mm/1.7 mm) TRANSOM PROFILE		1,485	42
FP301	YALITIMSIZ KASA PROFİLİ UNINSULATED FRAME PROFILE		1,053	41
FP302	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,235(PVC) 1,224(POL)	42
FP303	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,256(PVC) 1,245(POL)	42
FP304	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,272(PVC) 1,261(POL)	43
FP305	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,442(PVC) 1,431(POL)	43
FP306	YALITIMLI KASA PROFİLİ INSULATED FRAME PROFILE		1,458(PVC) 1,447(POL)	44
FP326	YALITIMSIZ KANAT PROFİLİ UNINSULATED VENT PROFILE		0,903	41
FP327	YALITIMSIZ KANAT PROFİLİ UNINSULATED VENT PROFILE		1,035	43

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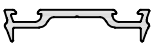
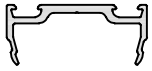
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PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP328	YALITIMLI KANAT PROFİLİ INSULATED VENT PROFILE		1,236(PVC) 1,225(POL)	42
FP329	YALITIMSIZ KANAT PROFİLİ UNINSULATED VENT PROFILE		1,250	44
FP330	YALITIMLI KANAT PROFİLİ INSULATED VENT PROFILE		1,453(PVC) 1,443(POL)	43
FP359	SPANDREL BÖLGE PANEL PROFİLİ PANEL PROFILE FOR SPANDREL AREA		0,437	49
FP360	SPANDREL BÖLGE PANEL PROFİLİ PANEL PROFILE FOR SPANDREL AREA		0,385	49
FP361	SPANDREL BÖLGE PANEL PROFİLİ PANEL PROFILE FOR SPANDREL AREA		0,468	49
FP362	SPANDREL BÖLGE PANEL PROFİLİ PANEL PROFILE FOR SPANDREL AREA		0,416	49
FP377	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,294	53
FP378	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,318	53
FP379	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,331	53
FP380	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,354	53
FP381	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,270	53
FP382	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,281	53
FP383	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,343	53
FP384	CAM ARASI KİTLEME PROFİLİ LOCKING PR. FOR DOUBLE GLAZED GLASS		0,340	53

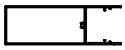
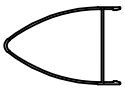
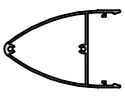
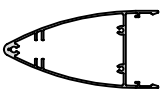
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PROFİL FİHRİSTİ / PROFILE INDEX

PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP391	CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE		0,308	53
FP392	CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE		0,338	53
FP393	CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE		0,368	53
FP394	CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE		0,482	53
FP398	20mm ÖZEL ISICAM ÇITASI 20mm SPECIAL GLASS SPACER		0,240	49
FP399	YAPIŞMA YÜZEY PROFİLİ BONDİNG SURFACE PROFILE		0,109	49
FP400	KANAT CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE FOR VENT		0,084	52
FP401	KANAT CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE FOR VENT		0,117	52
FP426	BASKI KAPAK PROFİLİ PRESSURE CAP PROFILE		0,395	50
FP427	BASKI KAPAK PROFİLİ PRESSURE CAP PROFILE		0,496	50
FP428	BASKI KAPAK PROFİLİ PRESSURE CAP PROFILE		0,413	50
FP429	BASKI KAPAK PROFİLİ PRESSURE CAP PROFILE		0,494	50
FP430	BASKI KAPAK PROFİLİ PRESSURE CAP PROFILE		0,183	50
FP440	KAPAK PROFİLİ CAP PROFILE		0,043	50
FP441	KAPAK PROFİLİ (12 mm) CAP PROFILE		0,283	50

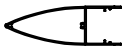
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Profile weights at the catalogue are theoretical, pre-shipment values will be valid.
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PROFİL FİHRİSTİ / PROFILE INDEX

PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP442	KAPAK PROFİLİ (15 mm) CAP PROFILE		0,308	50
FP443	KAPAK PROFİLİ (20 mm) CAP PROFILE		0,343	44
FP444	KAPAK PROFİLİ (25 mm) CAP PROFILE		0,403	45
FP445	KAPAK PROFİLİ (30 mm) CAP PROFILE		0,455	44
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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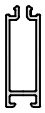
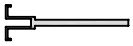
PROFİL FİHRİSTİ / PROFILE INDEX

PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP467	KAPAK PROFİLİ (150 mm) CAP PROFILE		1,885	48
FP468	KAPAK PROFİLİ (200 mm) CAP PROFILE		2,779	48
FP479	DIŞ KÖŞE DÖNÜŞ KAPAK PROFİLİ OUTER CORNER CAP PROFILE		1,804	51
FP480	İÇ KÖŞE BASKI KAPAK PROFİLİ INNER CORNER PRESSURE CAP PROFILE		0,384	52
FP524	İÇ KÖŞE BASKI KAPAK PROFİLİ INNER CORNER PRESSURE CAP PROFILE		0,477	52
FP481	İÇ KÖŞE DÖNÜŞ KAPAK PROFİLİ INNER CORNER CAP PROFILE		0,251	52
FP482	AÇILI BASKI KAPAK PROFİLİ ANGULAR PRESSURE CAP PROFILE		0,527	51
FP483	AÇILI KAPAK PROFİLİ ANGULAR CAP PROFILE		0,562	51
FP525	AÇILI KAPAK PROFİLİ ANGULAR CAP PROFILE		0,379	51
FP484	AÇILI BASKI KAPAK PROFİLİ ANGULAR PRESSURE CAP PROFILE		0,614	51
FP485	AÇILI KAPAK PROFİLİ ANGULAR CAP PROFILE		0,674	52
FP489	AÇILI CAM ÇITASI ANGULAR GLAZING BEAD		0,098	49
FP490	AÇILI CAM ÇITASI ANGULAR GLAZING BEAD		0,105	49
FP491	AÇILI CAM ÇITASI ANGULAR GLAZING BEAD		0,112	49
FP522	AÇILI CAM ÇITASI ANGULAR GLAZING BEAD		0,135	49

Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
Profile weights at the catalogue are theoretical, pre-shipment values will be valid.

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PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP492	**CAM ÇITASI** (6 mm) GLAZING BEAD		0,096	49
FP493	**CAM ÇITASI** (14 mm) GLAZING BEAD		0,154	49
FP494	**CAM ÇITASI** (16 mm) GLAZING BEAD		0,183	49
FP495	**CAM ÇITASI** (18 mm) GLAZING BEAD		0,196	49
FP496	**CAM ÇITASI** (20 mm) GLAZING BEAD		0,209	49
FP497	**CAM ÇITASI** (22 mm) GLAZING BEAD		0,222	49
FP488	**CAM ÇITASI** (24 mm) GLAZING BEAD		0,235	50
FP498	**CAM ÇITASI** (30 mm) GLAZING BEAD		0,274	50
FP499	**ADAPTÖR PROFİLİ** ADAPTER PROFILE		0,329	50
FP523	**ADAPTÖR PROFİLİ** ADAPTER PROFILE		0,245	50
FP500	**TİJ PROFİLİ** ROD PROFILE		0,096	49
FP501	**DİLATASYON PROFİLİ** DILATATION PROFILE		3,864	55
FP502	**GÜNEŞ KIRICILAR İÇİN BAĞLANTI PR.** CARRIER PROFILE FOR SUNBREAKERS		3,533	55
FP506	**U BAĞLANTI PROFİLİ** U CONNECTION PROFILE		1,040	54
FP514	**AÇILI U BAĞLANTI PROFİLİ** ANGULAR U CONNECTION PROFILE		0,947	54

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PROFİL NUM. PROFILE NO.	TANIM DESCRIPTION	ÇİZİM DRAWING	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
FP520	KÖŞE TAKOZU CORNER CLEAT		1,974	54
FP521	KÖŞE TAKOZU CORNER CLEAT		2,366	54
FP403	CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE		0,721	53
FP390	CAM ALTI DESTEK PROFİLİ GLAZING SUPPORT PROFILE		0,277	53

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PROFİLLER
PROFILES

- **KATALOGDA BELİRTİLEN TÜM PROFİL AĞIRLIKLARI TEORİK OLUP PROFİLLERİN PRES(HAM) HALLERİNE AİTTİR. ISI BARİYERİ ÇEŞİDİNE VEYA PROFİL YÜZEYİNDEKİ BOYA KALINLIKLARINA BAĞLI OLARAK AĞIRLIK FARKLILIKLARI OLUŞABİLMEKTEDİR.**
  WEIGHTS IN THIS CATALOGUE ARE THEORETICAL AND BELONG TO MILL FINISH SURFACE. ACCORDING TO THE INSULATION BAR TYPE OR THICKNESSES OF THE PAINT ON THE PROFILE SURFACE, THERE COULD BE WEIGHT DIFFERENCES.

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

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	10,89	11,95	1,283
FP102	55mm	1.7mm	1.7mm	6,76	6,37	26,51	15,91	1,467
FP103	55mm	2mm	2mm	6,99	6,85	28,18	17,13	1,568
FP104	75mm	1.7mm	1.7mm	10,96	7,95	52,33	19,88	1,651
FP105	75mm	2mm	2mm	11,54	8,69	56,01	21,74	1,785
FP106	95mm	1.7mm	1.7mm	15,13	9,54	89,90	23,85	1,835
FP107	95mm	2mm	2mm	16,92	10,53	96,69	26,35	2,001
FP108	115mm	1.7mm	2mm	21,05	11,43	146,23	28,57	2,081
FP109	115mm	2mm	3mm	24,60	12,79	171,14	31,77	2,343
FP110	135mm	1.7mm	2.2mm	27,48	13,08	219,20	32,71	2,291
FP120	135mm	2mm	2.2mm	28,92	14,29	228,82	35,73	2,459
FP111	135mm	2.2mm	4mm	33,15	14,87	272,66	37,19	2,684
FP112	155mm	2.2mm	2.3mm	35,08	15,42	316,11	38,55	2,594
FP113	155mm	2.4mm	4.5mm	41,83	16,88	391,21	42,21	2,963
FP114	175mm	2.4mm	2.4mm	45,07	18,71	446,63	46,77	3,004
FP115	175mm	2.6mm	5mm	51,78	19,54	544,51	48,86	3,327
FP116	195mm	2.6mm	2.5mm	56,46	22,24	612,21	55,61	3,449
FP117	195mm	2.8mm	5mm	63,09	23,02	726,42	57,56	3,756
FP118	215mm	2.8mm	3mm	71,33	25,43	838,14	63,57	3,915
FP119	215mm	2.8mm	6mm	78,35	26,35	996,46	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	0,55	3,31	0,567
FP152	20mm	1.7mm	1.7mm	1,40	3,18	2,94	7,94	0,933
FP153	40mm	1.7mm	1.7mm	4,12	4,82	12,04	11,82	1,123
FP154	50mm	1.7mm	1.7mm	5,69	5,37	18,58	13,42	1,161
FP155	60mm	1.7mm	1.7mm	7,78	6,41	28,72	16,01	1,308
FP156	80mm	1.7mm	1.7mm	11,77	8,16	55,87	20,4	1,515
FP157	100mm	1.7mm	1.7mm	16,11	9,75	93,82	24,37	1,699
FP158	120mm	1.7mm	2mm	20,95	11,34	144,26	28,34	1,884
FP159	140mm	2mm	2mm	28,87	14,48	224,05	36,21	2,289
FP160	160mm	1.6mm	2mm	32,25	14,24	285,31	35,6	2,227
FP161	160mm	2.1mm	2.1mm	36,70	17,00	320,03	42,5	2,601
FP162	180mm	2.1mm	2.1mm	43,99	18,93	428,52	47,32	2,828
FP163	200mm	2.1mm	3mm	57,22	21,31	620	53,26	3,230
FP164	220mm	2.4mm	3mm	69,82	25,75	827,1	64,37	3,785

Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
Profile weights at the catalogue are theoretical, pre-shipment values will be valid.

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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)*:
Eloksal ve toz boya işleminden **önce** yerleştirilir. *(Placed into the aluminium profiles **before** anodic oxidation and powder coating.)*
b- PVC :
Eloksal 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-Eloksal *(Anodic Oxidation)*
Eloksallı Ürünlere İlişkin Teknik Resim Standardı : **DIN 17611 , EN 12371-1 (QUALANOD)**
(The Standarts of Technical Delivery Terms Regarding Eloxal Products)
Eloksal Tabakasının Kalınlığı *(Thickness of Eloxal Coating)*: 10-15 mikron, **EN ISO 2360**
Daldırma ve Renklendirme Standardı *(The Standarts of Immersion Coloring)* : **DIN 50018**
Tesbit İşlemi Standardı *(Sealing Standarts)* : **EN 12373-5 , ISO 3210 (TS 2676)**

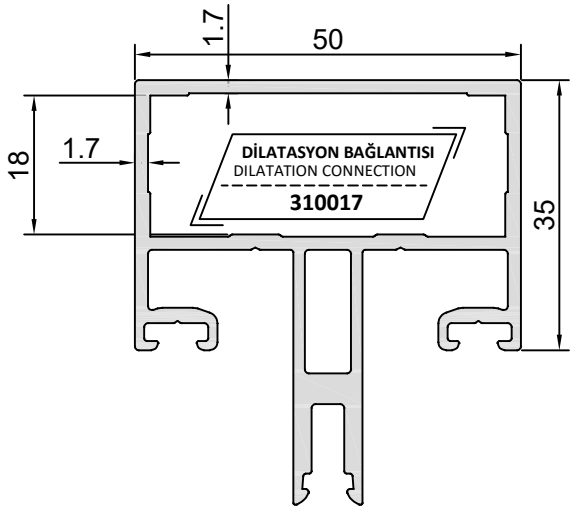
5-Toz Boya Standartları *(The Standarts of Powder Coating)*
Kalınlık *(Thickness)* : min. 60 mikron
Adhezyon *(Adhesion)* : **EN ISO 2409**
Esneklik *(Elasticity)* : **EN ISO 1519**
Deformasyon *(Deformation)* : **EN ISO 6272-1**
Sertlik *(Hardness)* : **EN ISO 2815**

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)

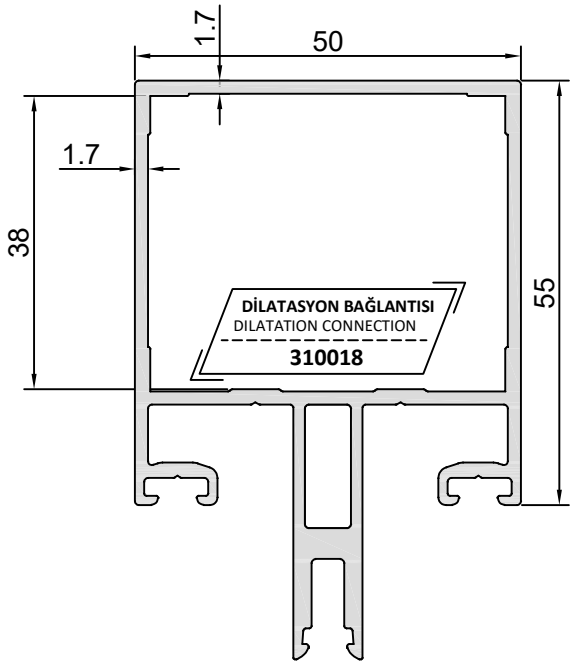
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FP101

Jx (cm⁴)	Jy (cm⁴)
10,89	11,95
Wx (cm³)	**Wy** (cm³)
3,41	4,78

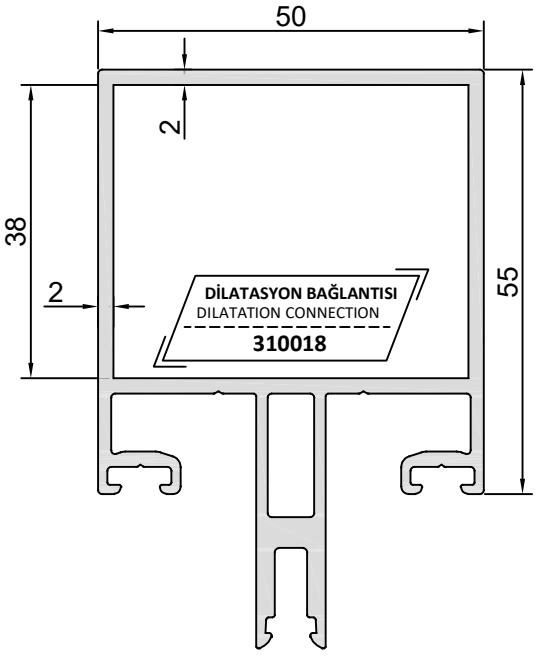
AĞIRLIK / WEIGHT (KG/M.)
1,283



FP102

Jx (cm⁴)	Jy (cm⁴)
26,51	15,91
Wx (cm³)	**Wy** (cm³)
6,37	6,37

AĞIRLIK / WEIGHT (KG/M.)
1,467

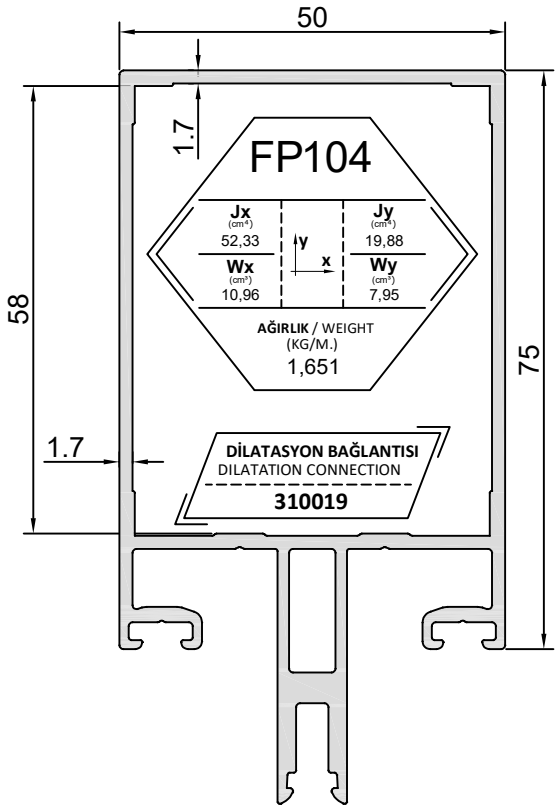


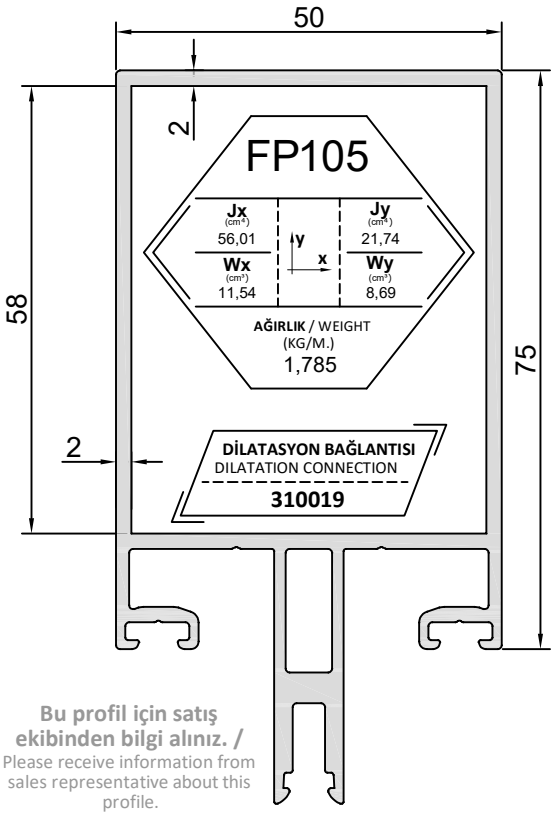
FP103

Jx (cm⁴)	Jy (cm⁴)
28,18	17,13
Wx (cm³)	**Wy** (cm³)
6,99	6,85

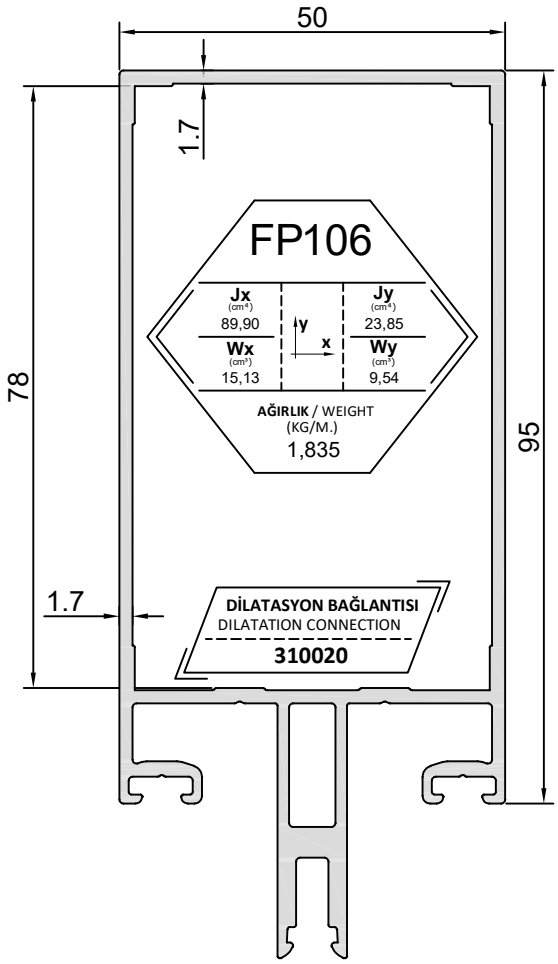
AĞIRLIK / WEIGHT (KG/M.)
1,568

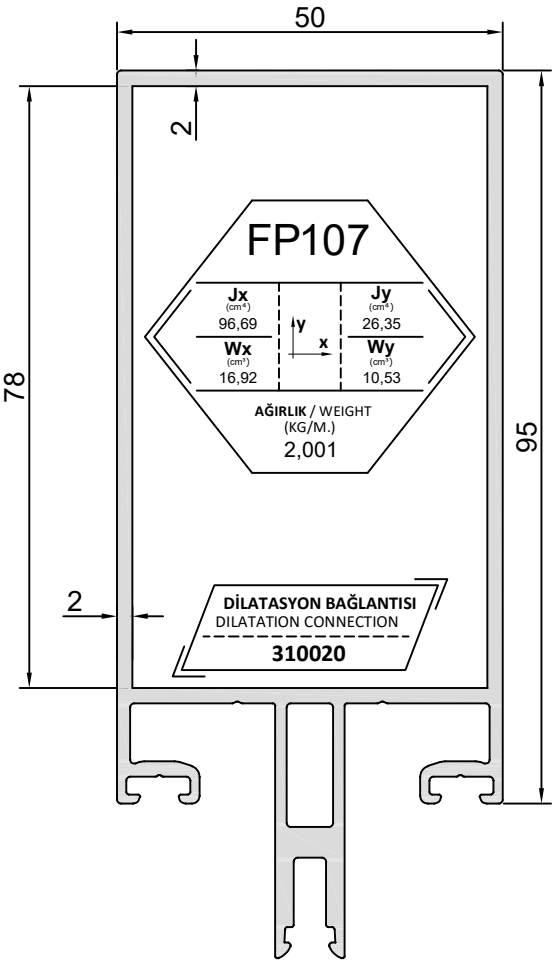
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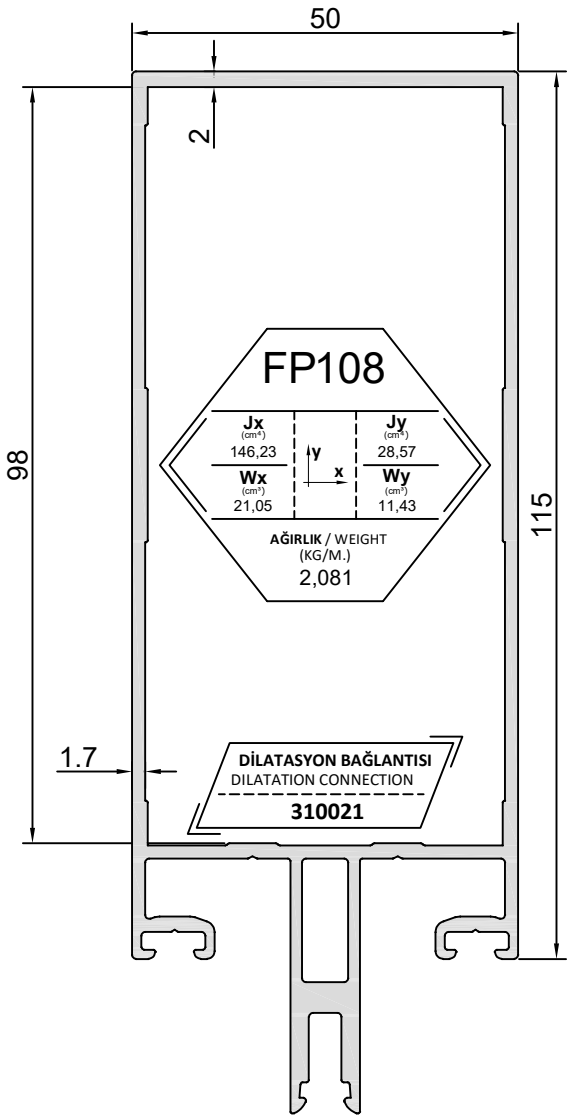


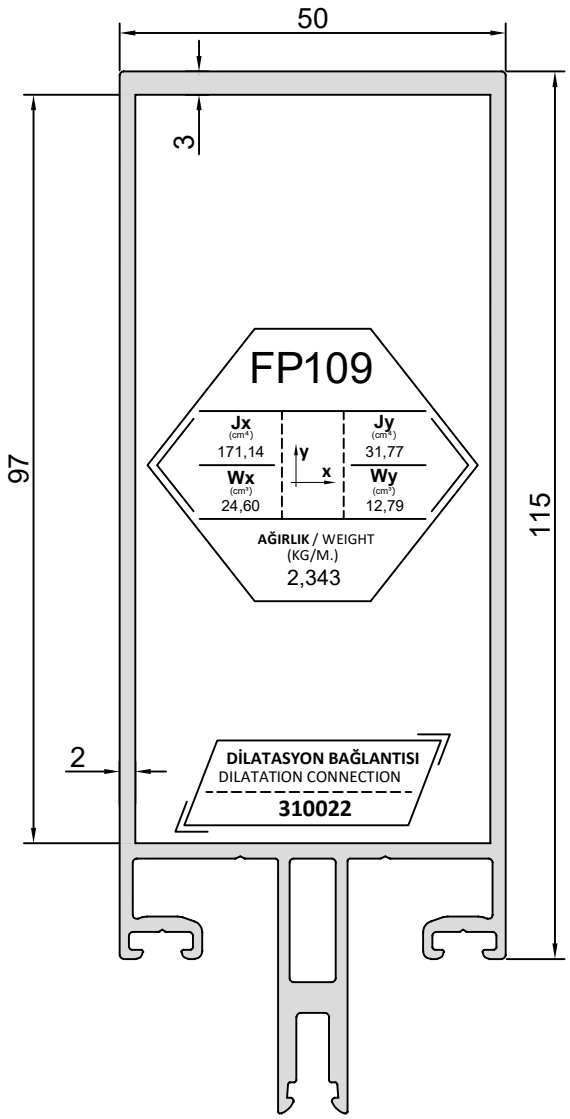
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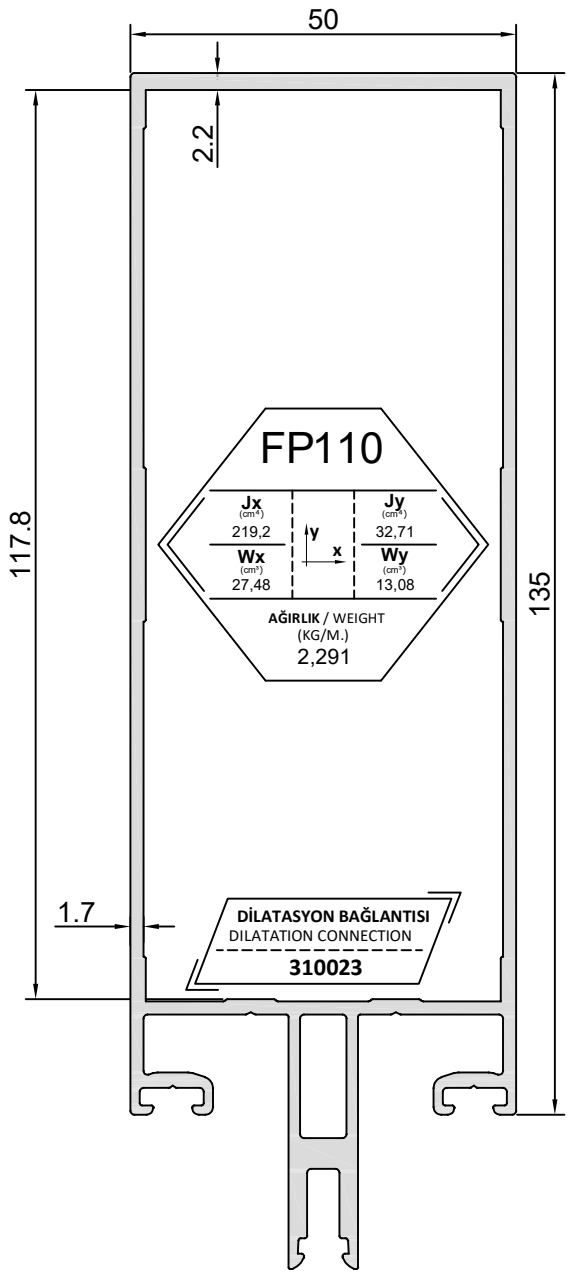


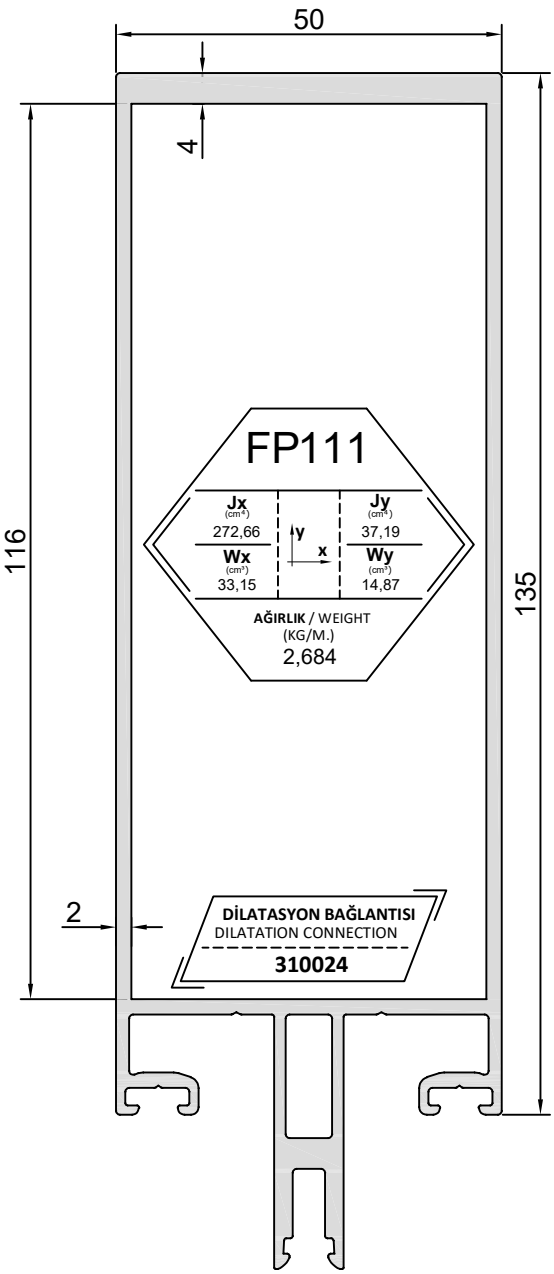
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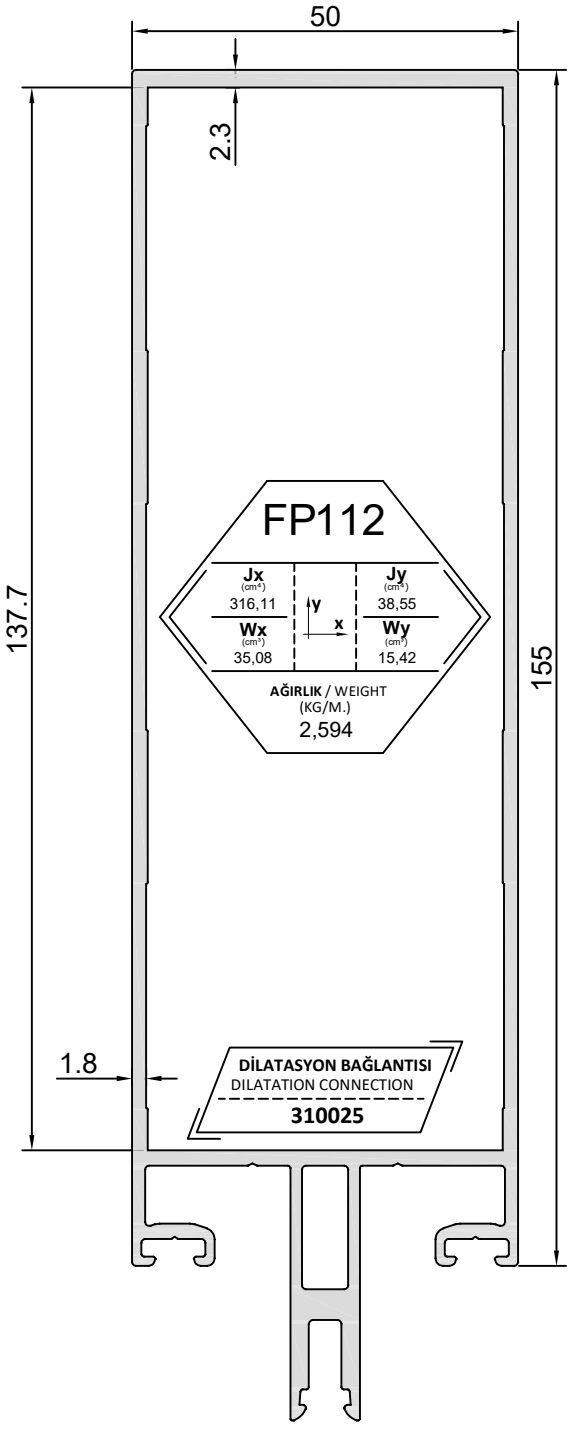


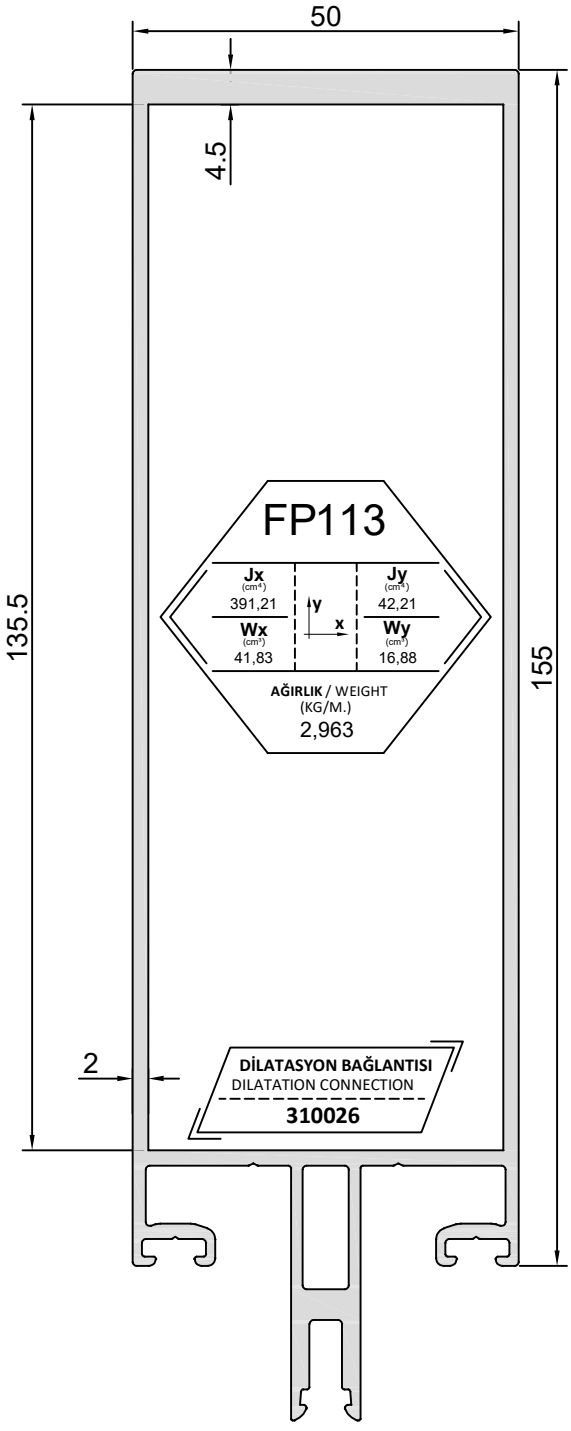
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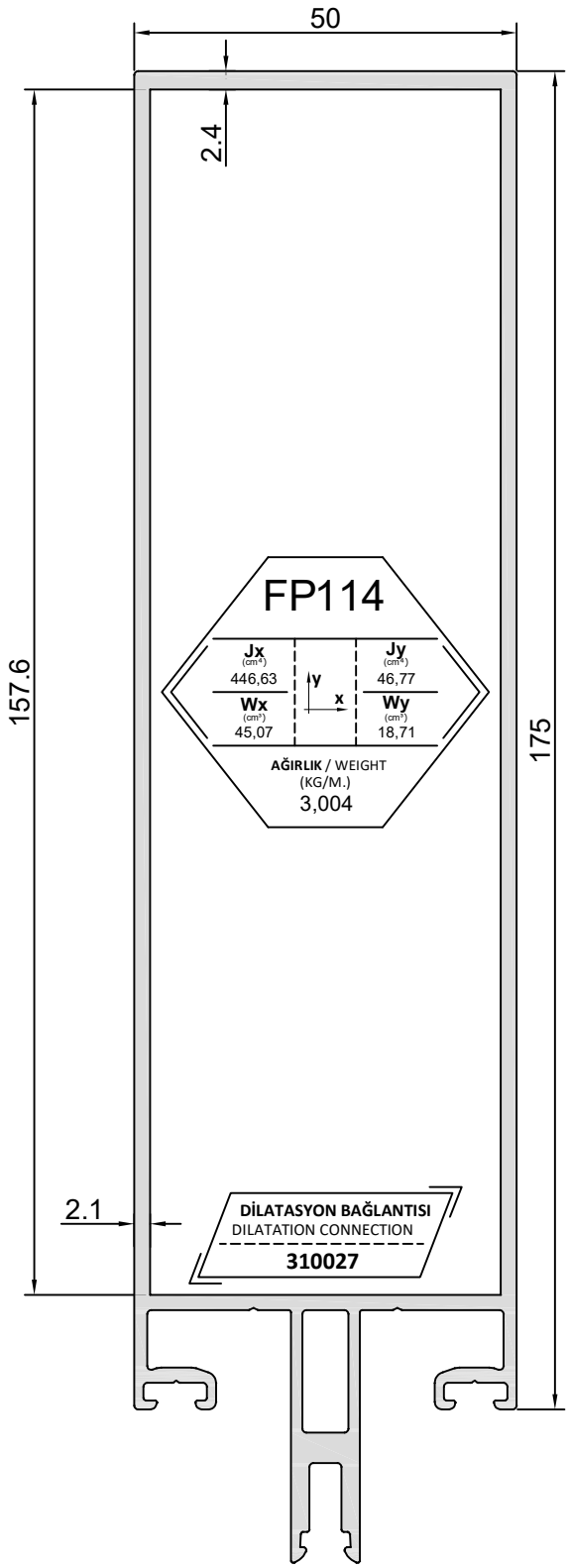


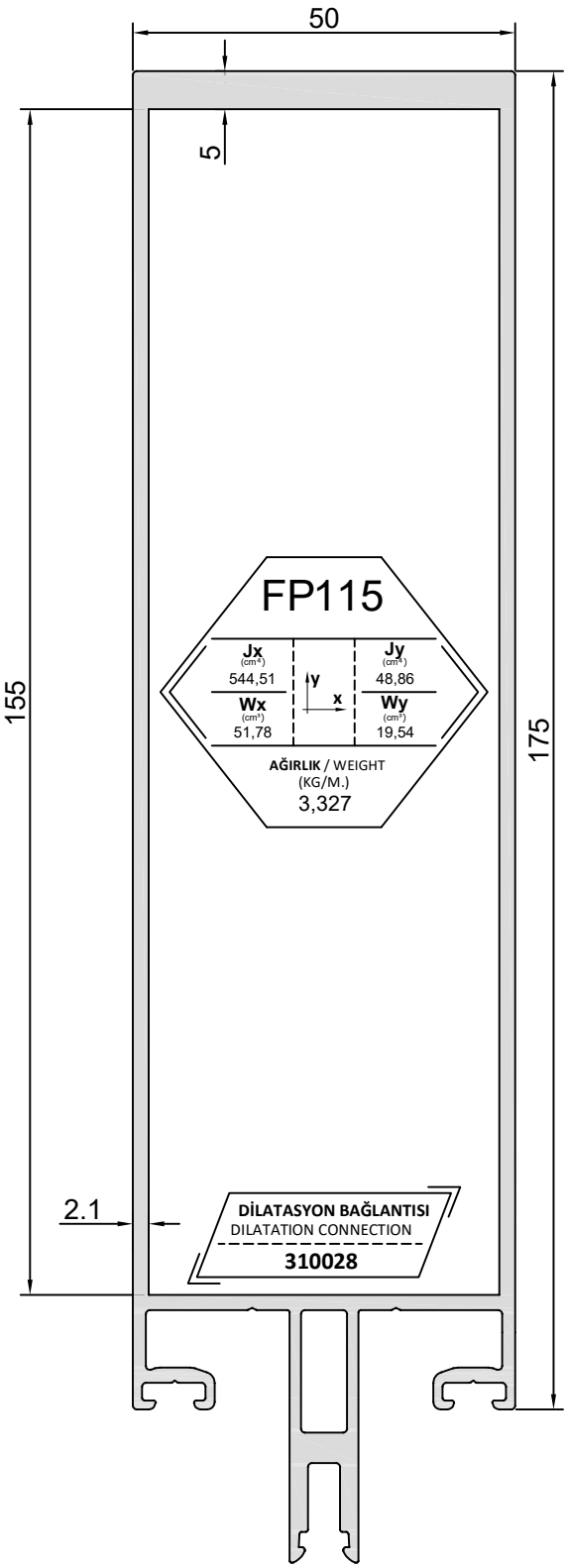
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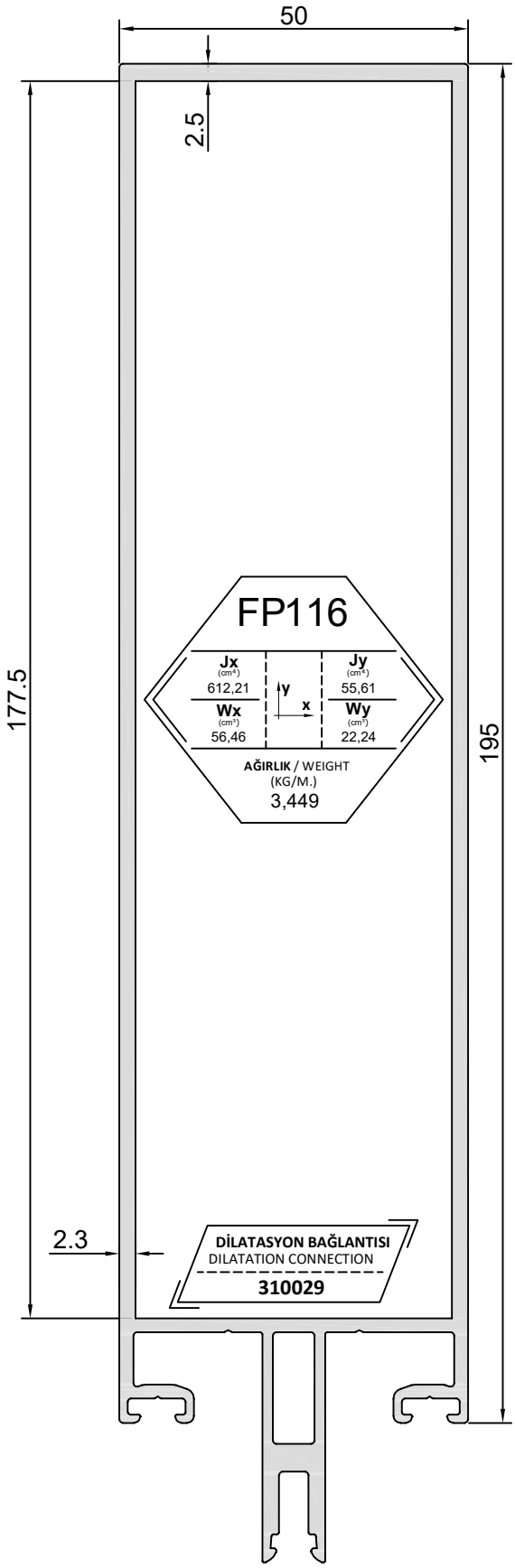


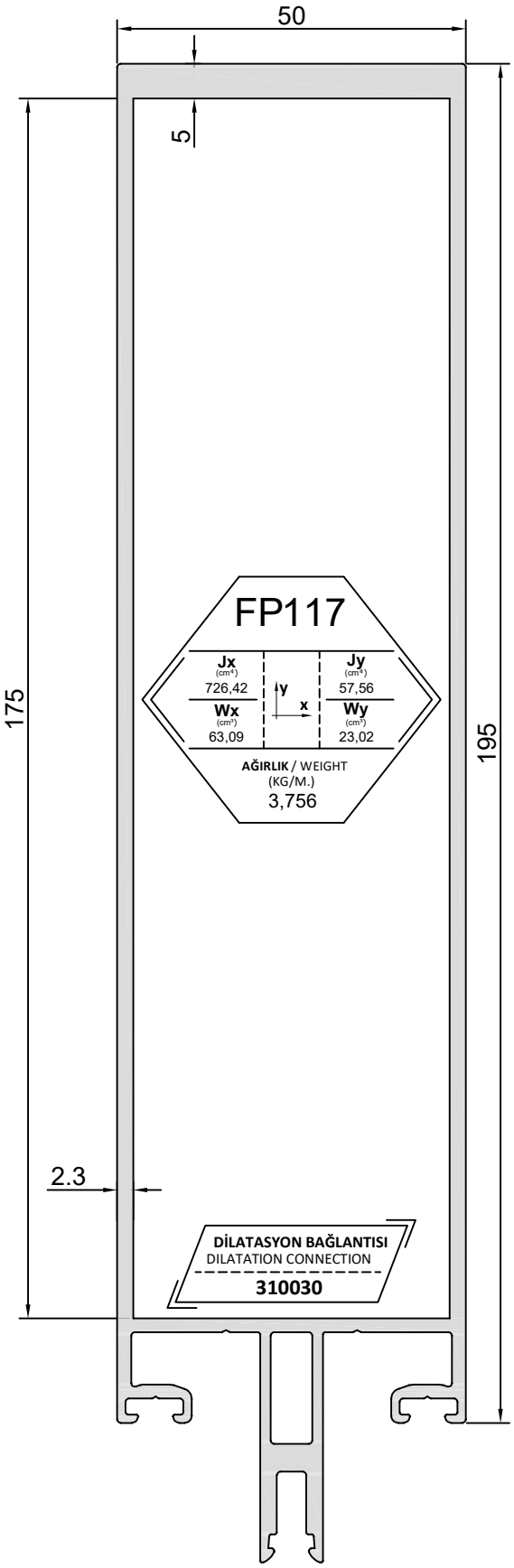
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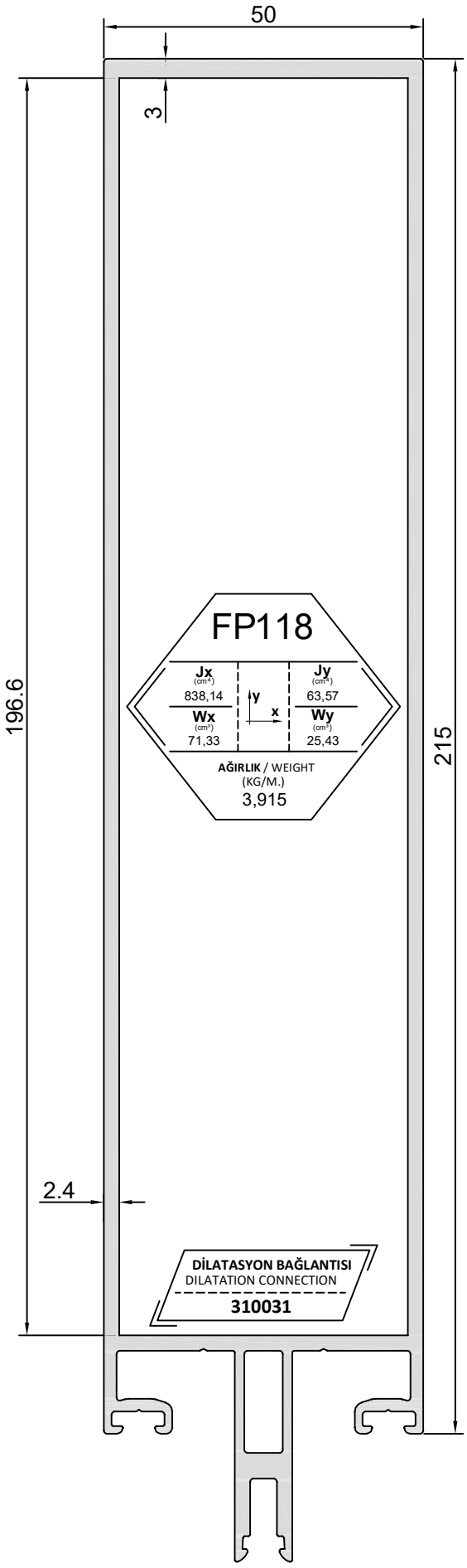


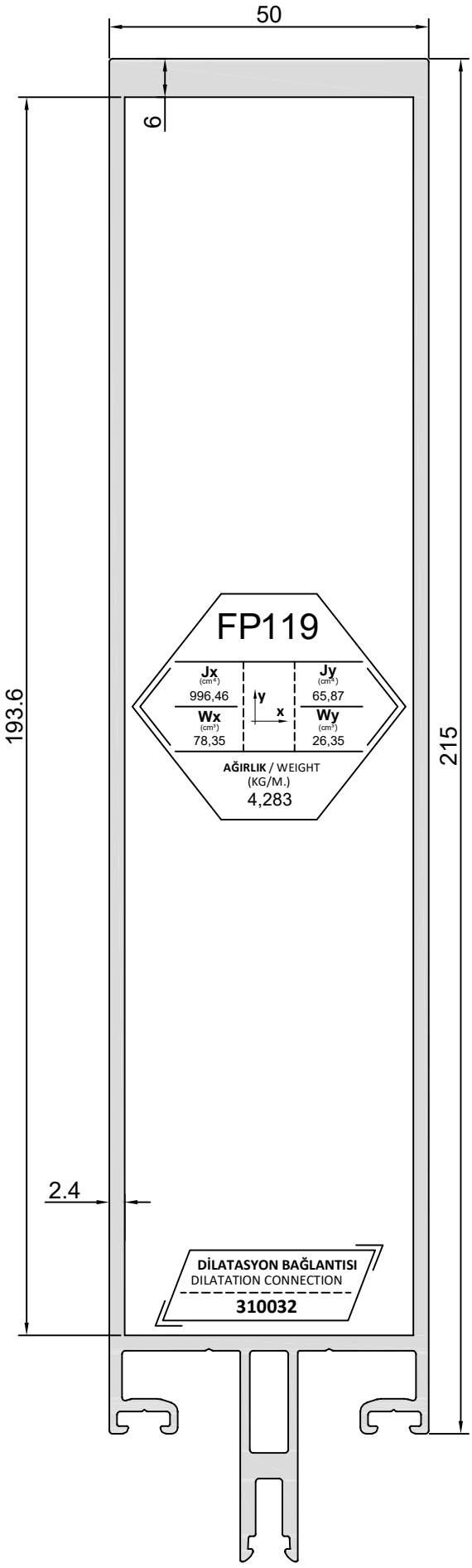
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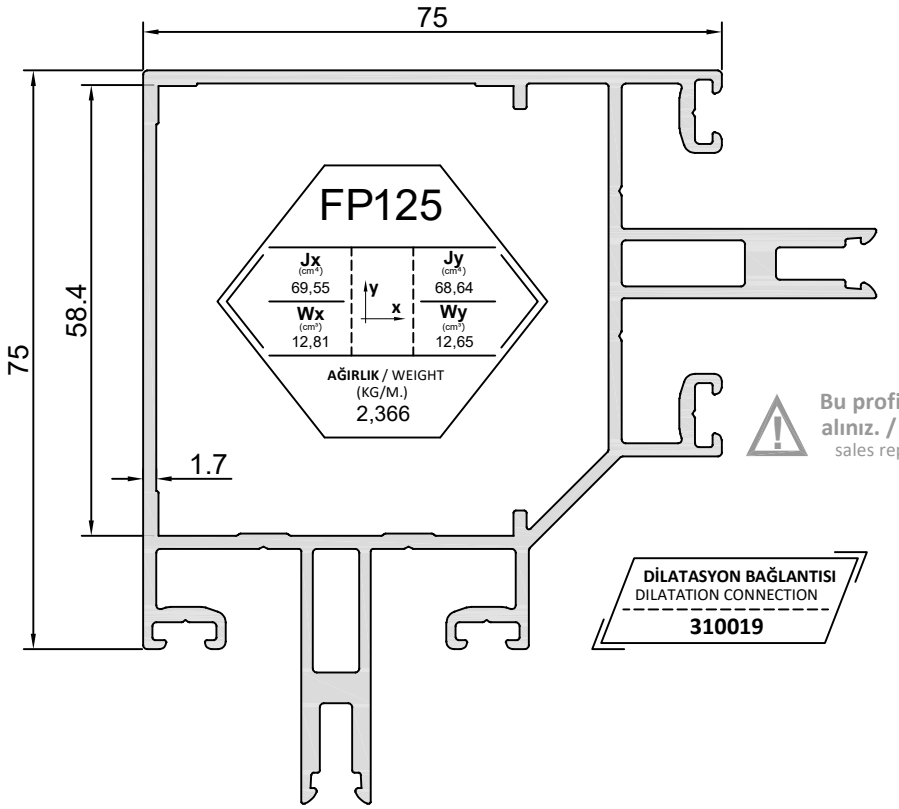


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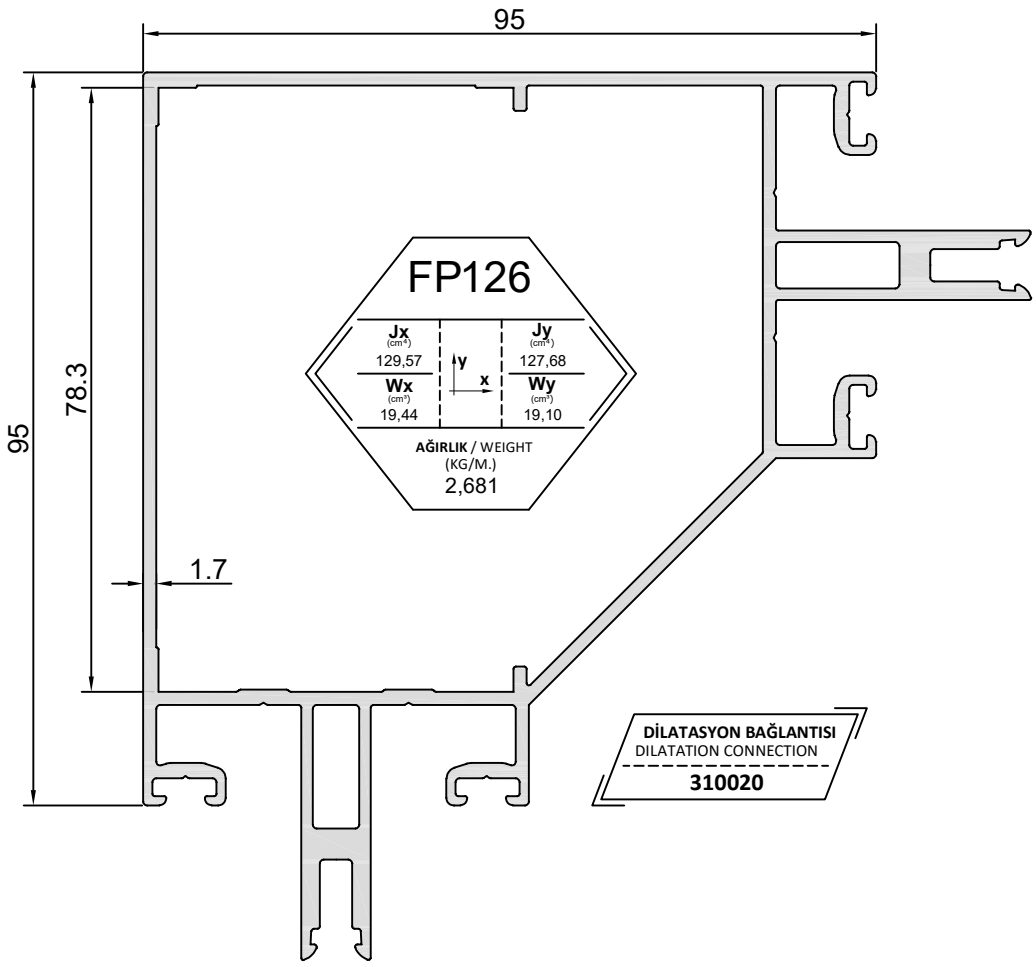




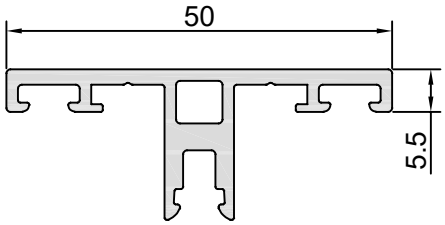
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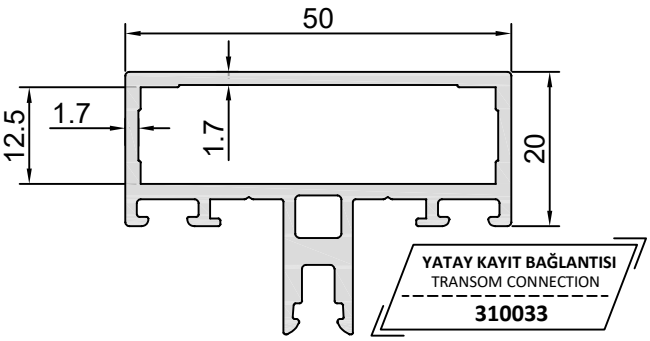
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FP151

Jx (cm⁴)	Jy (cm⁴)
0,55	3,31
Wx (cm³)	**Wy** (cm³)
0,38	1,33

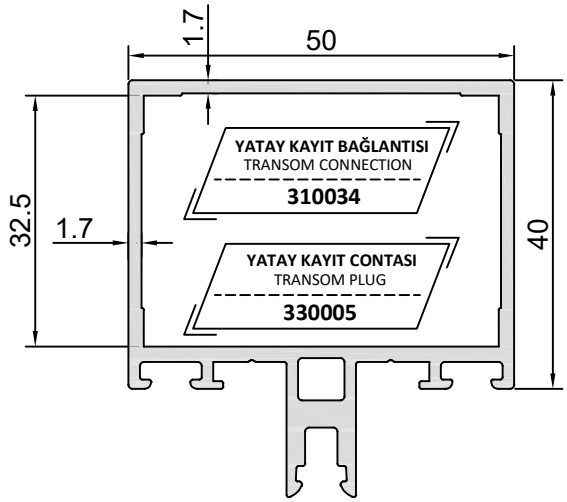
AĞIRLIK / WEIGHT (KG/M.)
0,567



FP152

Jx (cm⁴)	Jy (cm⁴)
2,94	7,94
Wx (cm³)	**Wy** (cm³)
1,40	3,18

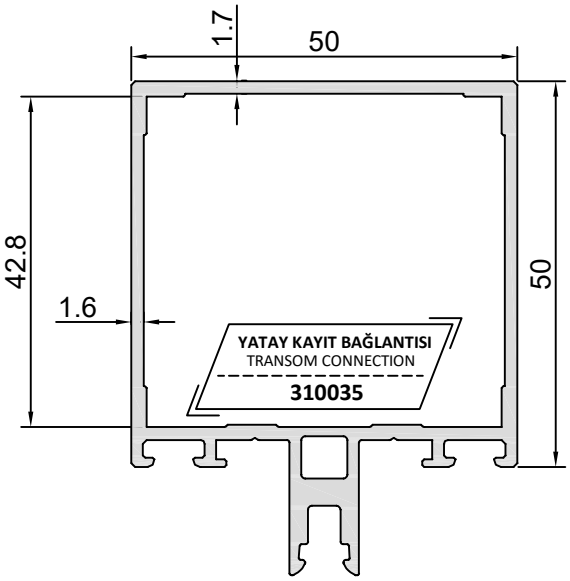
AĞIRLIK / WEIGHT (KG/M.)
0,933



FP153

Jx (cm⁴)	Jy (cm⁴)
12,04	11,82
Wx (cm³)	**Wy** (cm³)
4,12	4,82

AĞIRLIK / WEIGHT (KG/M.)
1,123

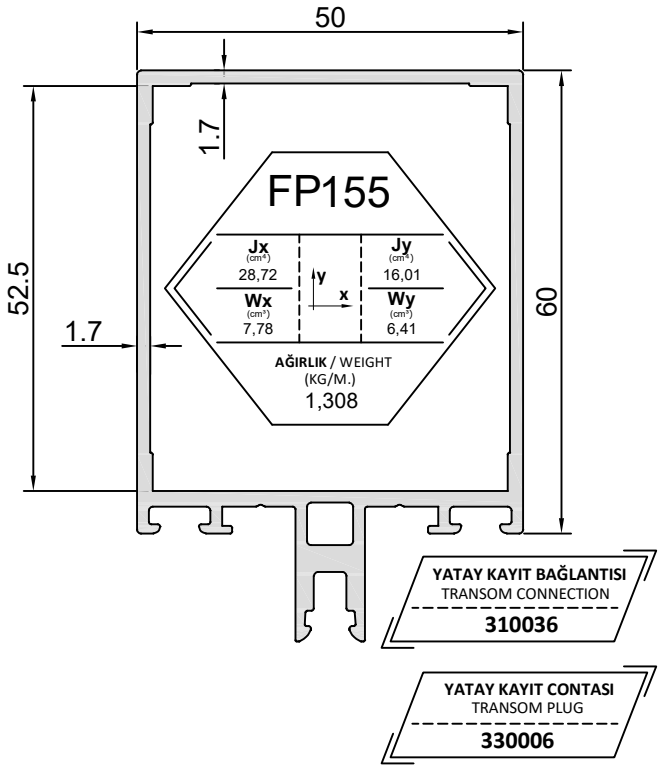


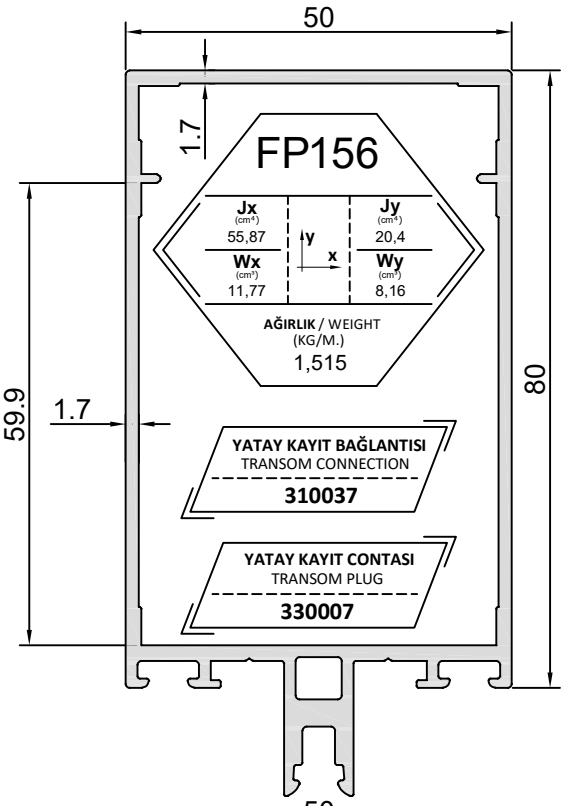
FP154

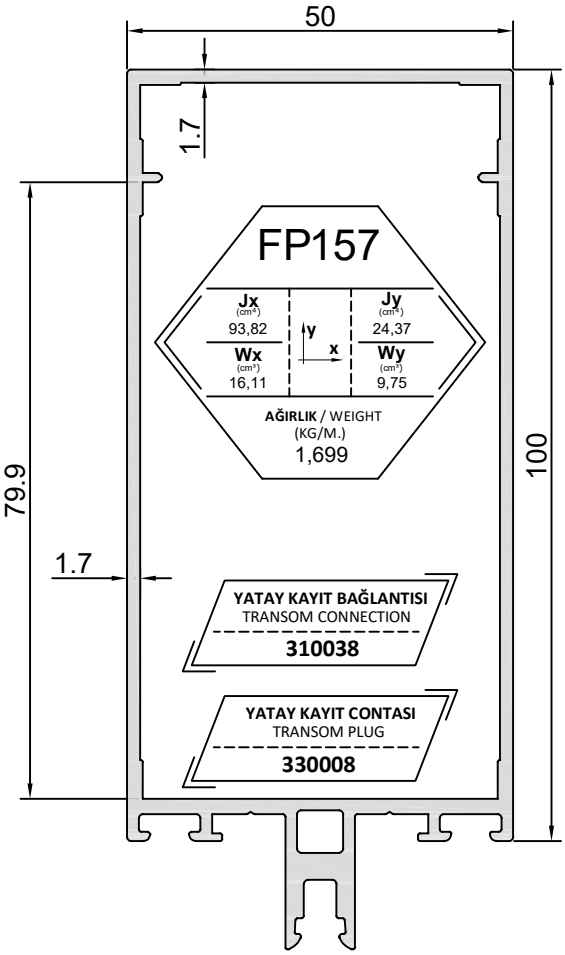
Jx (cm⁴)	Jy (cm⁴)
18,58	13,42
Wx (cm³)	**Wy** (cm³)
5,69	5,37

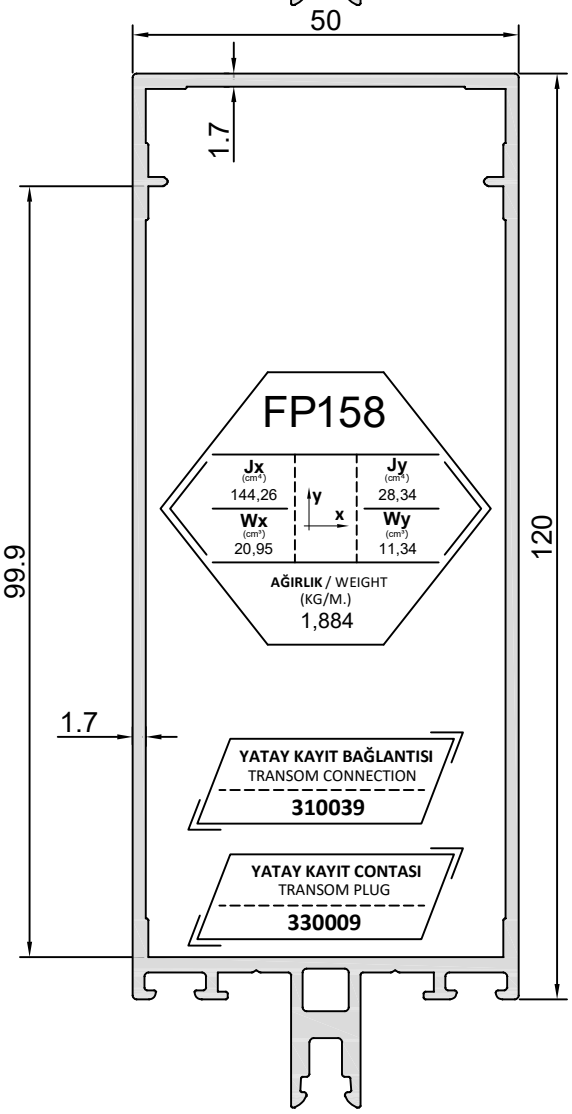
AĞIRLIK / WEIGHT (KG/M.)
1,161

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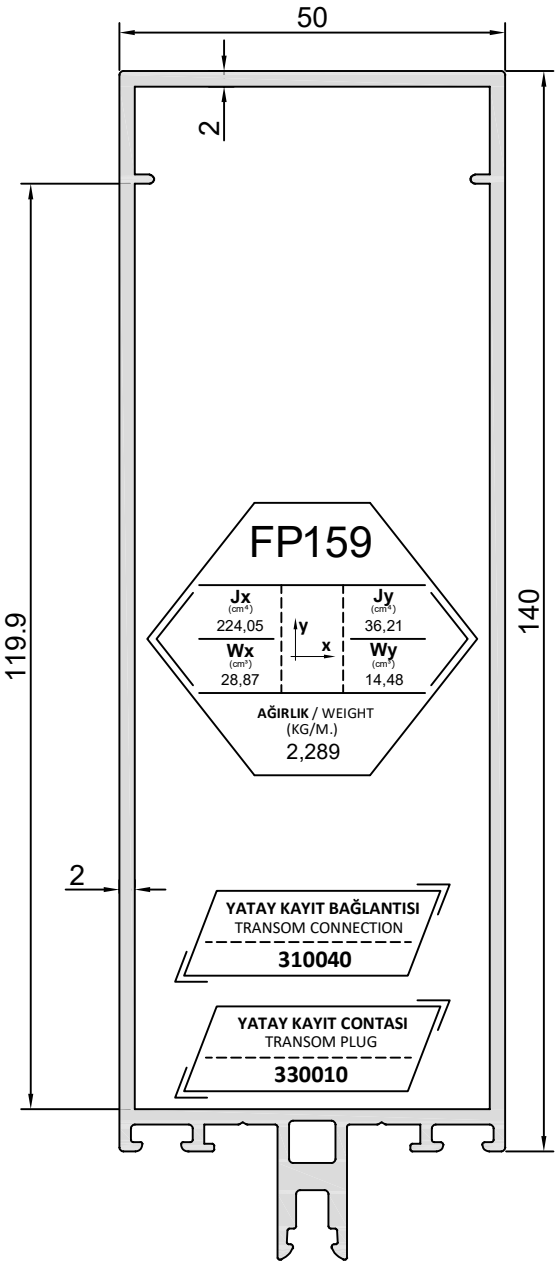


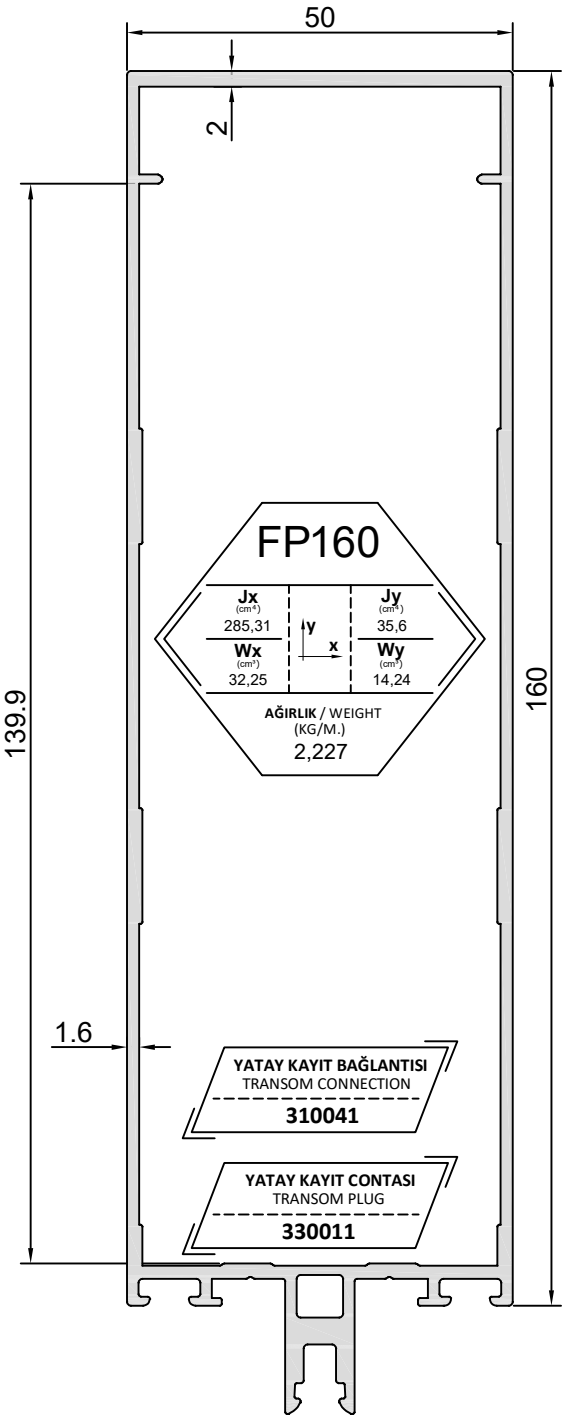




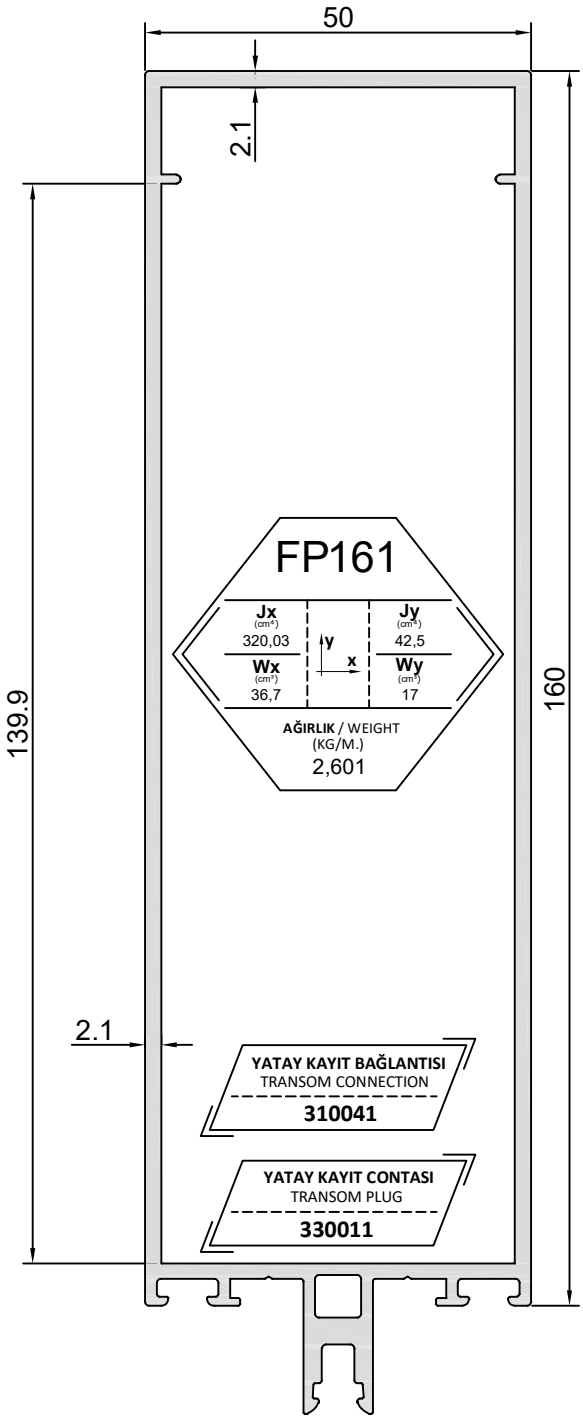


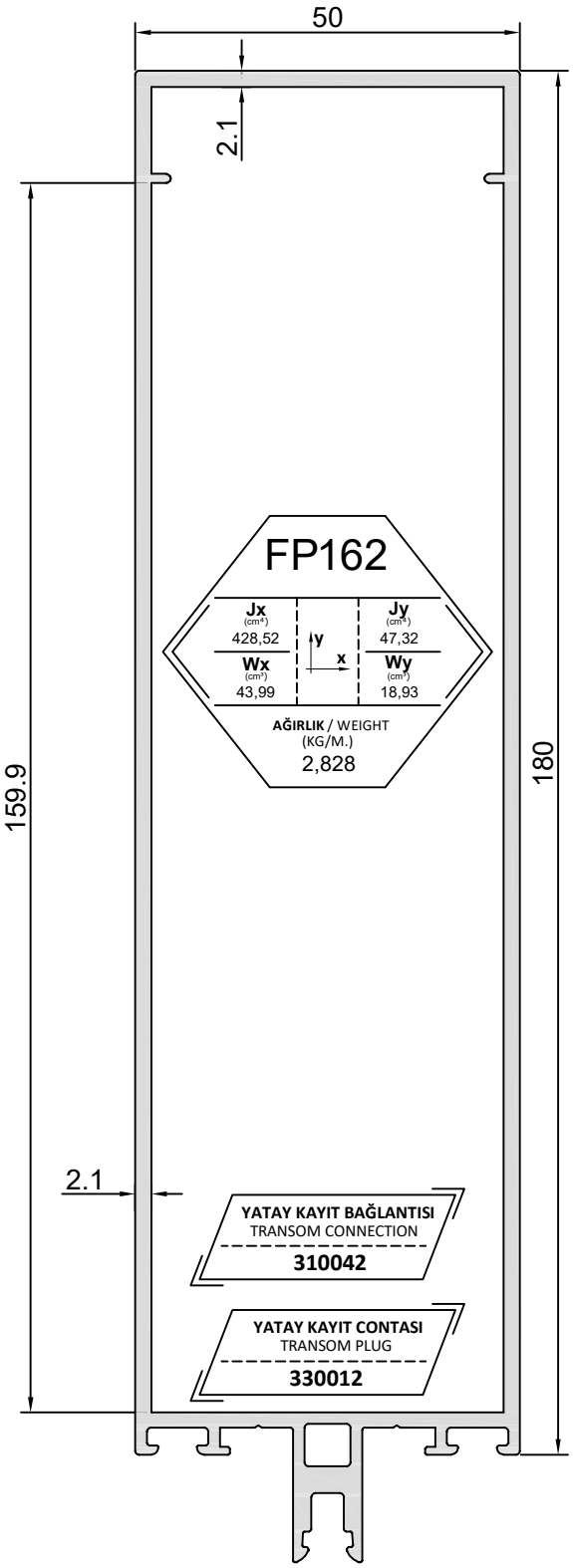
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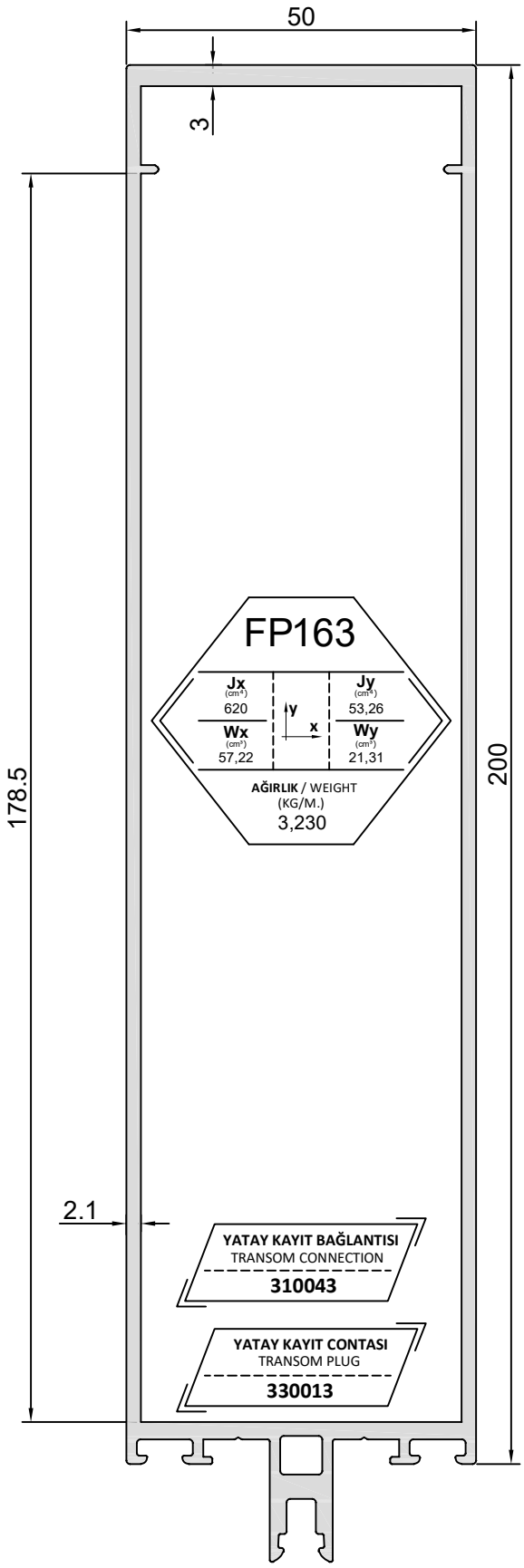


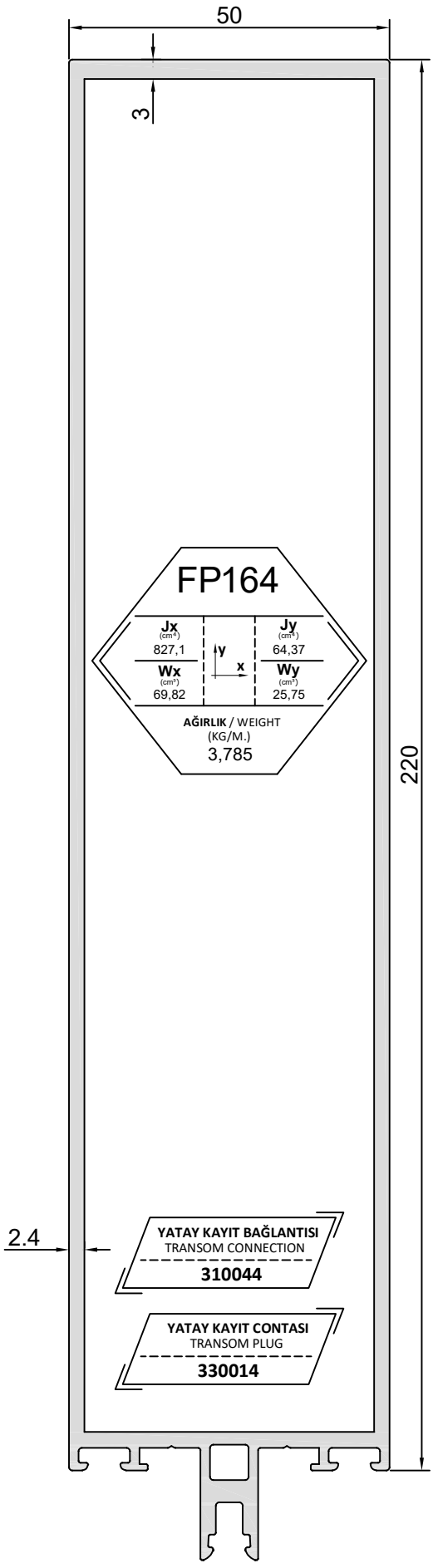
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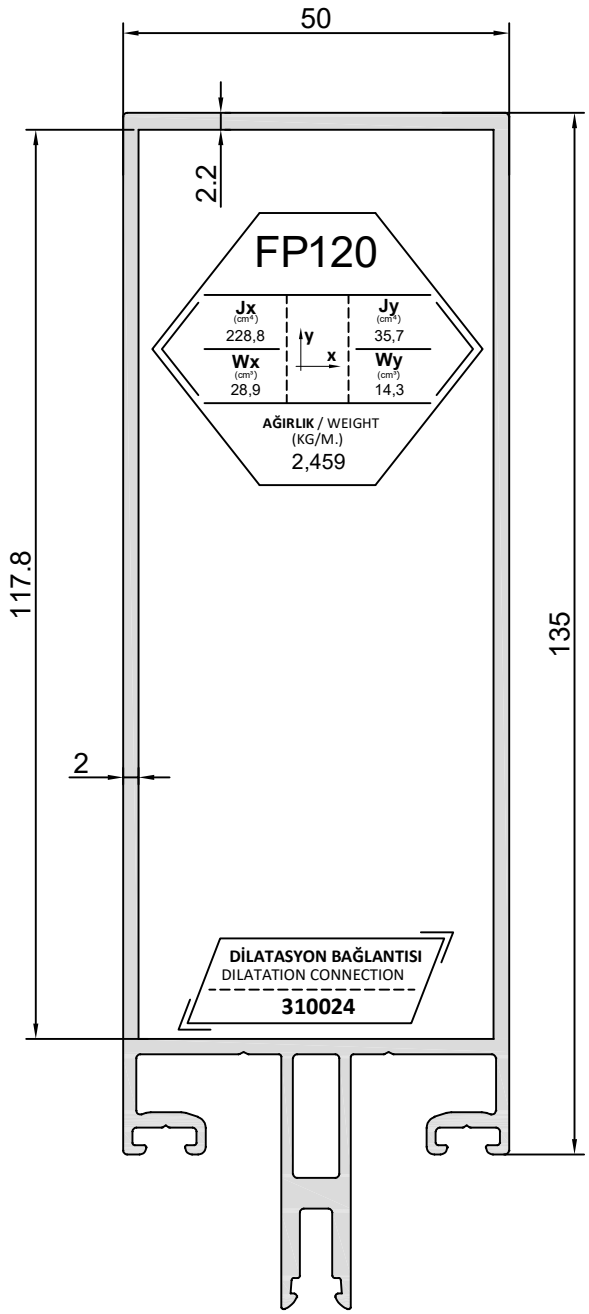


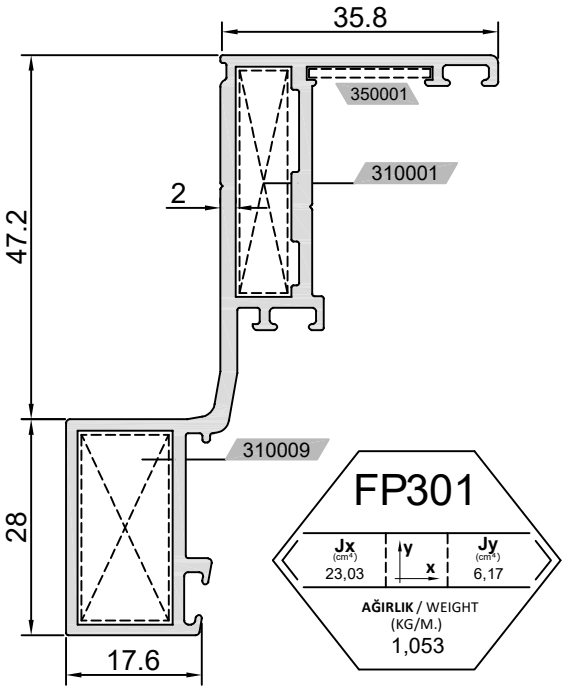
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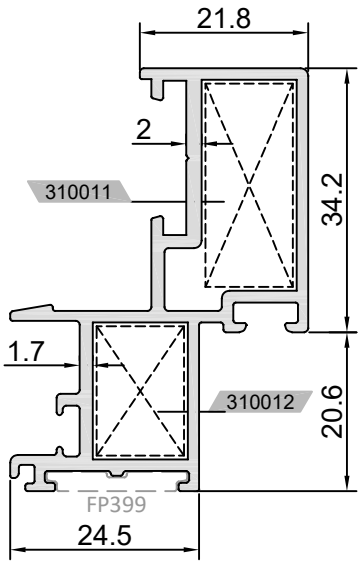


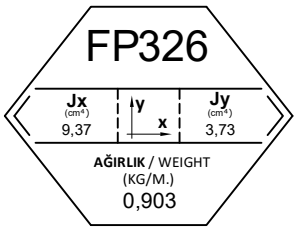


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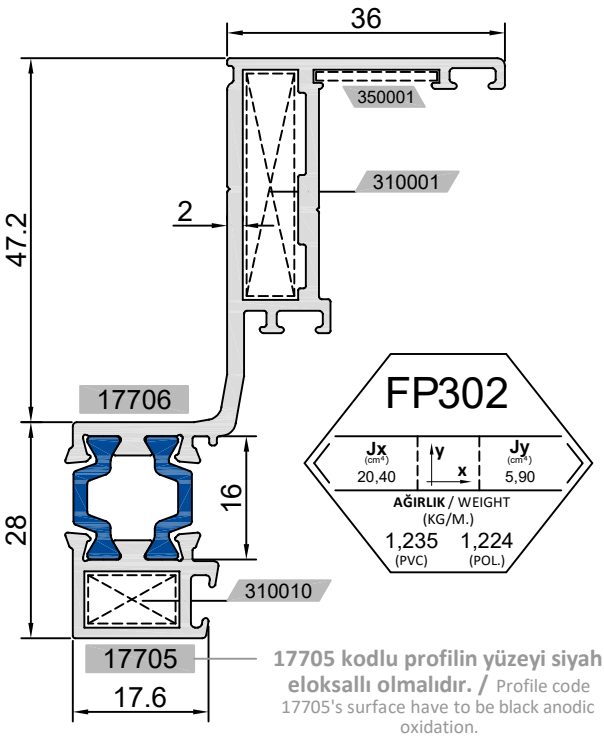




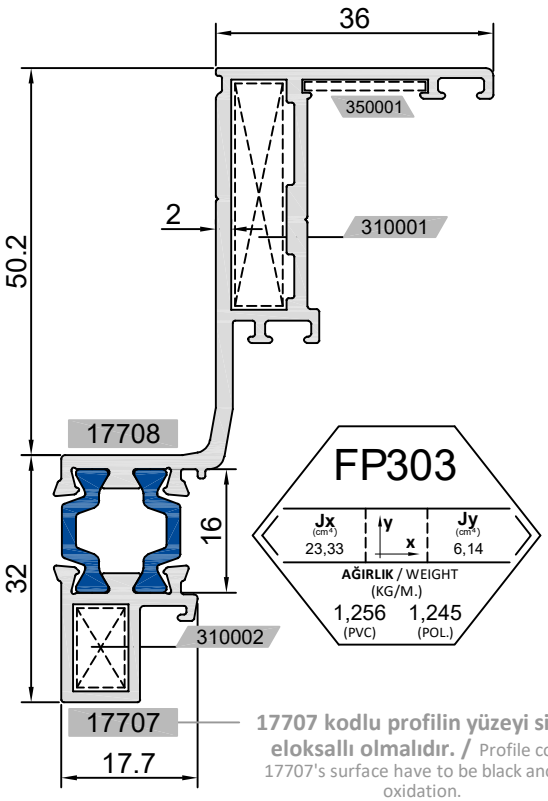




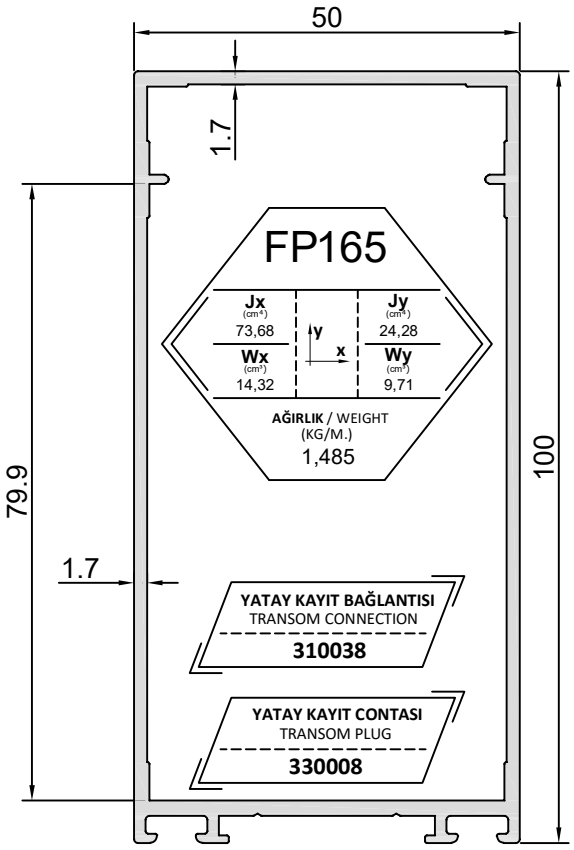
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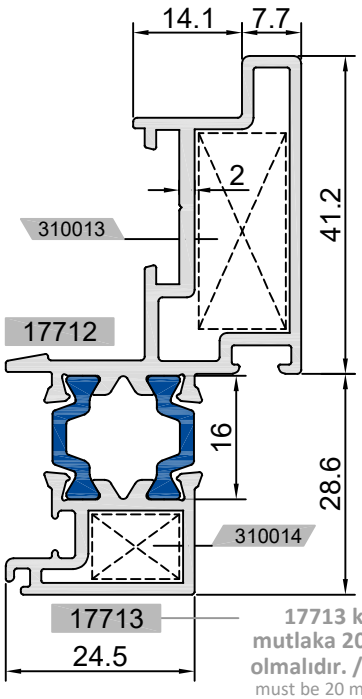


17705 kodlu profilin yüzeyi siyah eloksallı olmalıdır. / Profile code 17705's surface have to be black anodic oxidation.

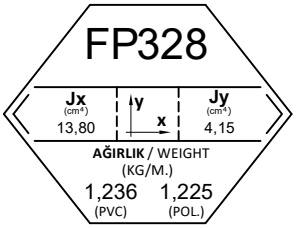


17707 kodlu profilin yüzeyi siyah eloksallı olmalıdır. / Profile code 17707's surface have to be black anodic oxidation.

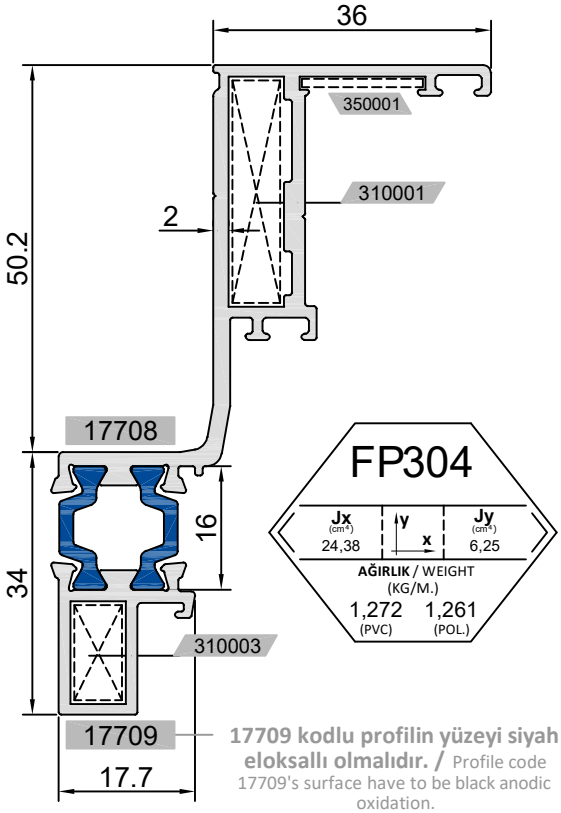




17713 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksallı olmalıdır. / Profile code 17713's surface must be 20 micron black anodic oxidation.



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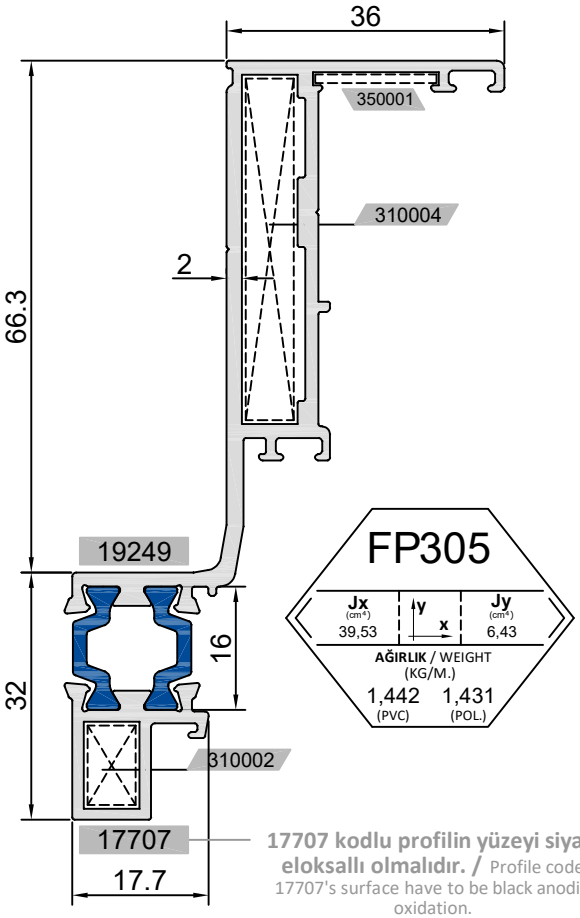
FP304

Jx (cm⁴)	y x	Jy (cm⁴)
24,38		6,25

AĞIRLIK / WEIGHT (KG/M.)

1,272 (PVC)	1,261 (POL.)

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



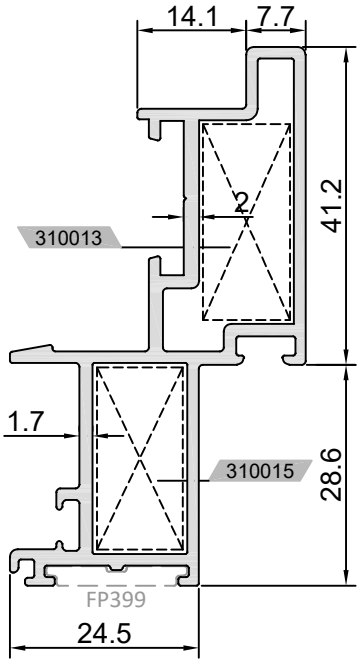
FP305

Jx (cm⁴)	y x	Jy (cm⁴)
39,53		6,43

AĞIRLIK / WEIGHT (KG/M.)

1,442 (PVC)	1,431 (POL.)

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

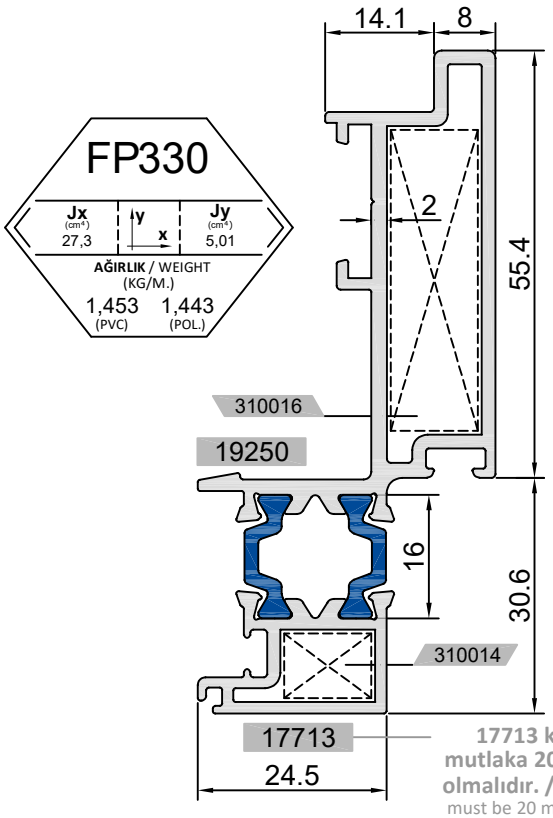


FP327

Jx (cm⁴)	y x	Jy (cm⁴)
15,85		4,27

AĞIRLIK / WEIGHT (KG/M.)

1,035



FP330

Jx (cm⁴)	y x	Jy (cm⁴)
27,3		5,01

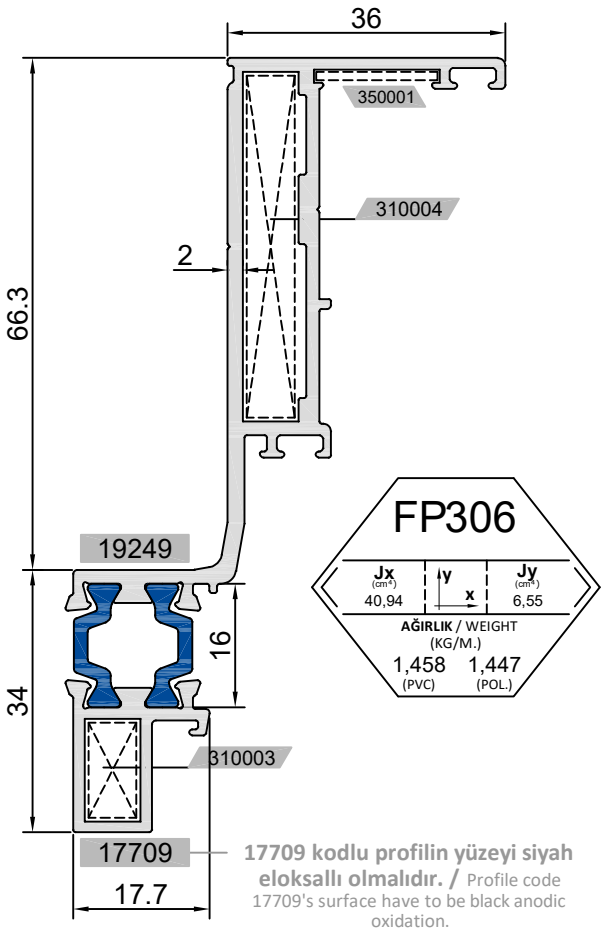
AĞIRLIK / WEIGHT (KG/M.)

1,453 (PVC)	1,443 (POL.)

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

Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
Profile weights at the catalogue are theoretical, pre-shipment values will be valid.

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FP306

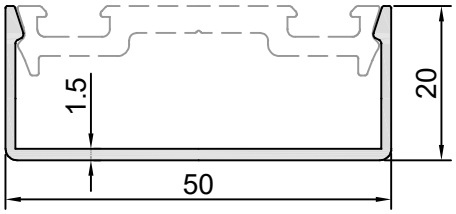
Jx (cm⁴)	y x	Jy (cm⁴)
40,94		6,55

AĞIRLIK / WEIGHT (KG/M.)

1,458 (PVC) 1,447 (POL.)

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

FP426, FP427, FP428

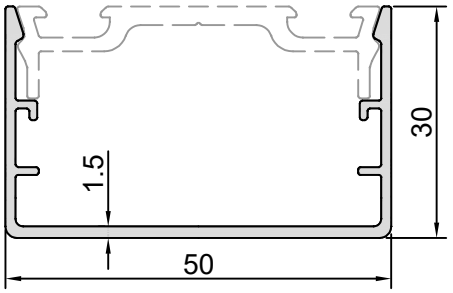


FP443

AĞIRLIK / WEIGHT (KG/M.)

0,343

FP428



FP445

AĞIRLIK / WEIGHT (KG/M.)

0,455

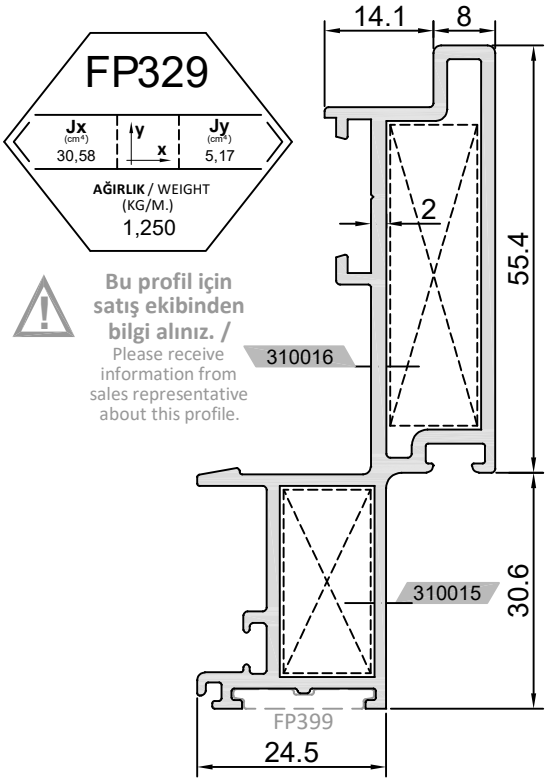
FP329

Jx (cm⁴)	y x	Jy (cm⁴)
30,58		5,17

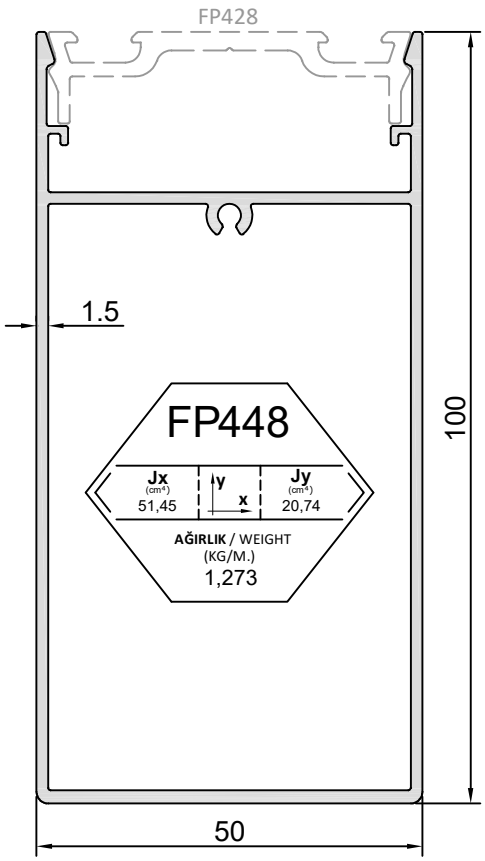
AĞIRLIK / WEIGHT (KG/M.)

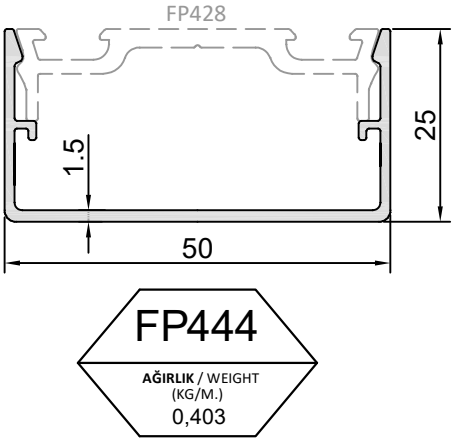
1,250

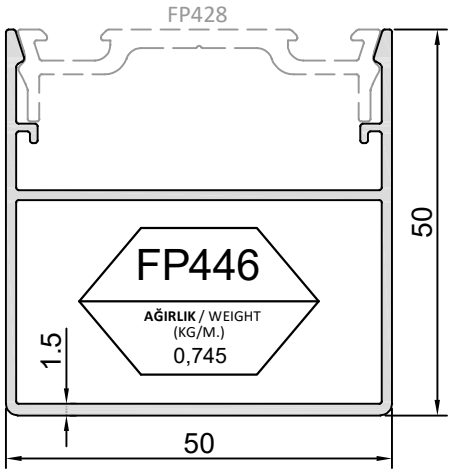
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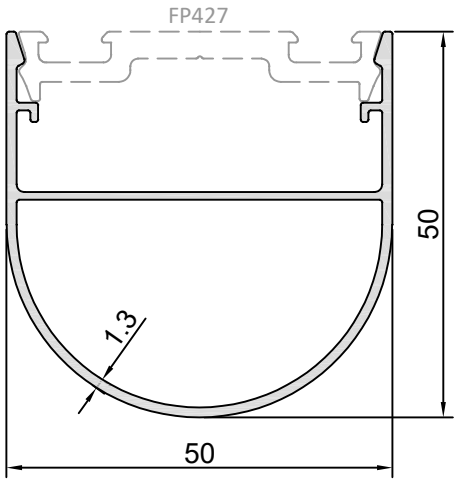


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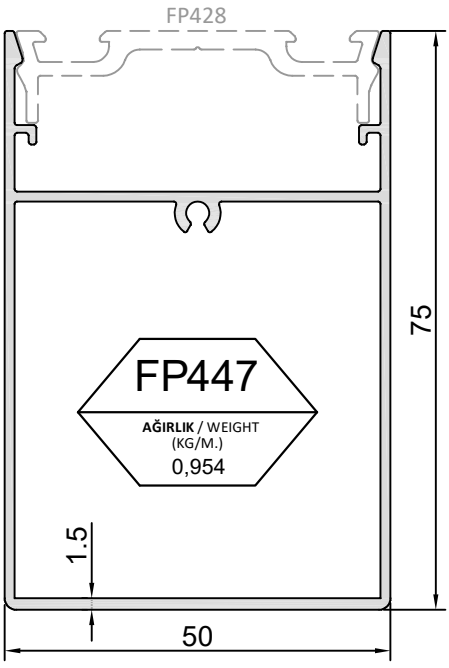




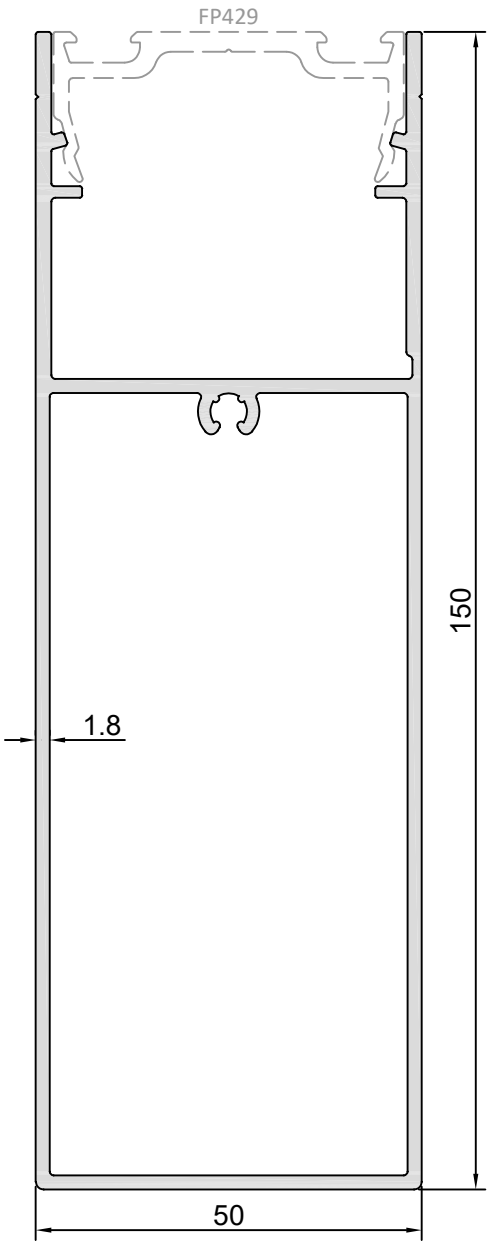








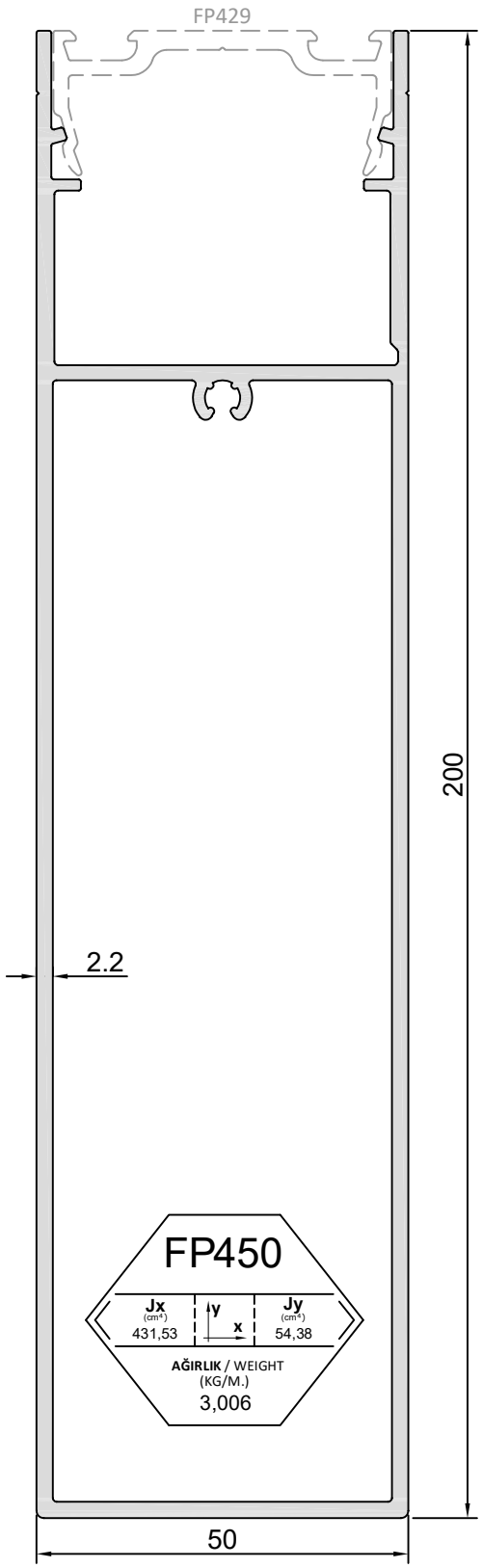
Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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FP449

Jx (cm⁴)	y x	Jy (cm⁴)
166,24		36,07

AĞIRLIK / WEIGHT (KG/M.)
2,065

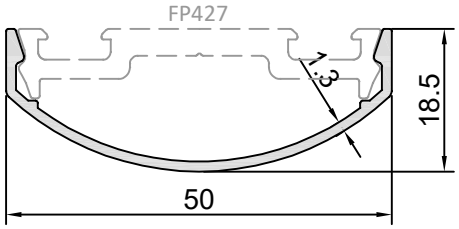


FP450

Jx (cm⁴)	y x	Jy (cm⁴)
431,53		54,38

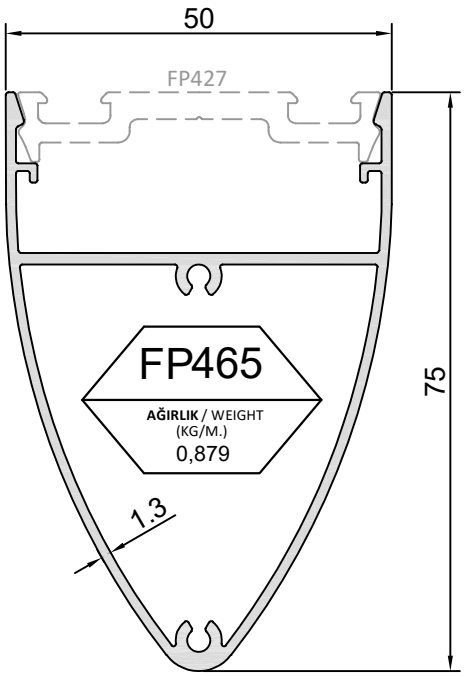
AĞIRLIK / WEIGHT (KG/M.)
3,006

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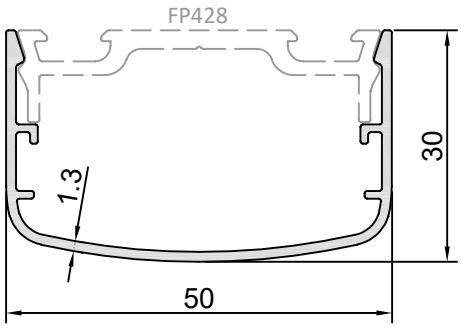
FP461

AĞIRLIK / WEIGHT
(KG/M.)
0,262



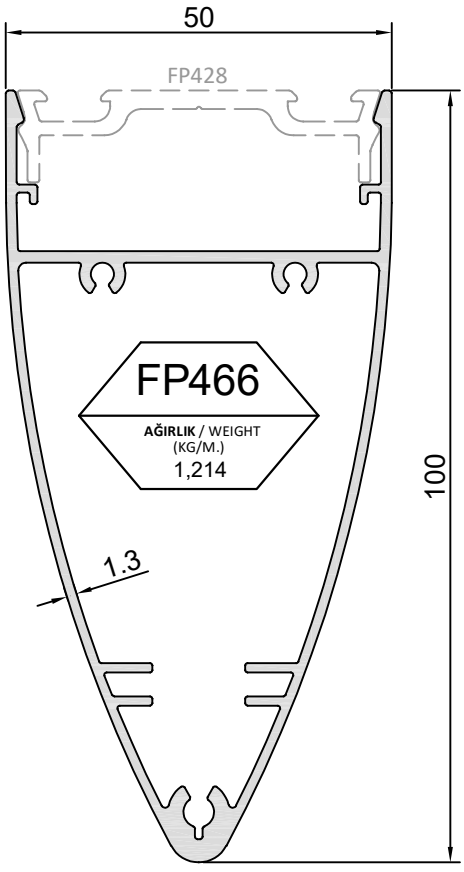
FP465

AĞIRLIK / WEIGHT
(KG/M.)
0,879



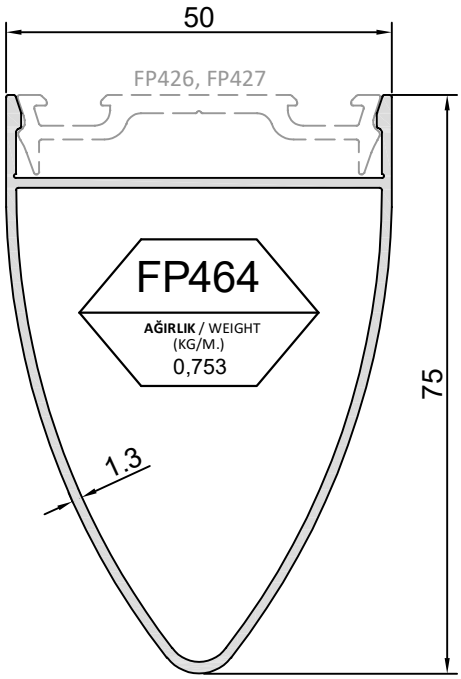
FP462

AĞIRLIK / WEIGHT
(KG/M.)
0,397



FP466

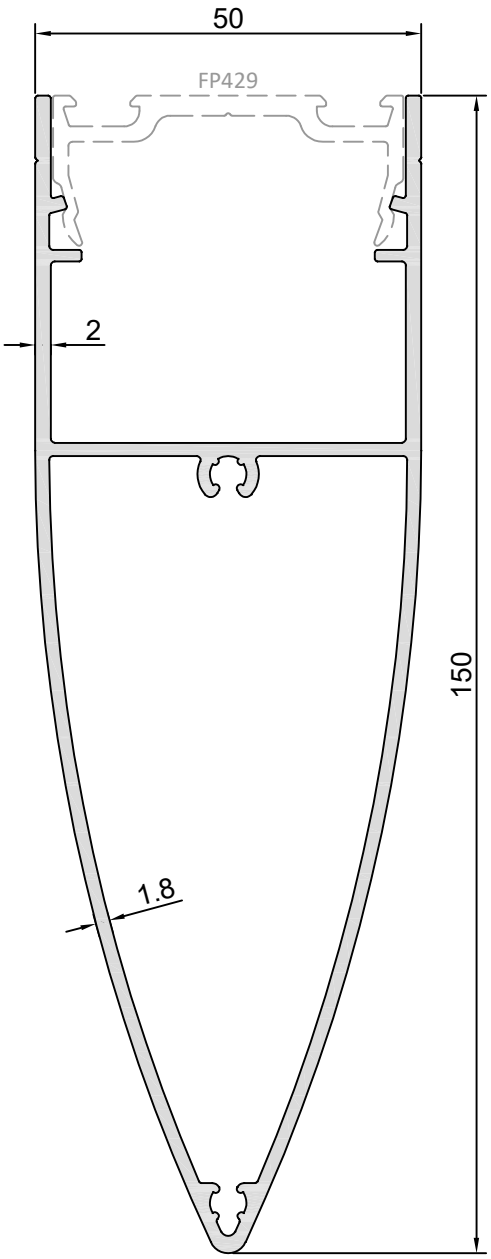
AĞIRLIK / WEIGHT
(KG/M.)
1,214



FP464

AĞIRLIK / WEIGHT
(KG/M.)
0,753

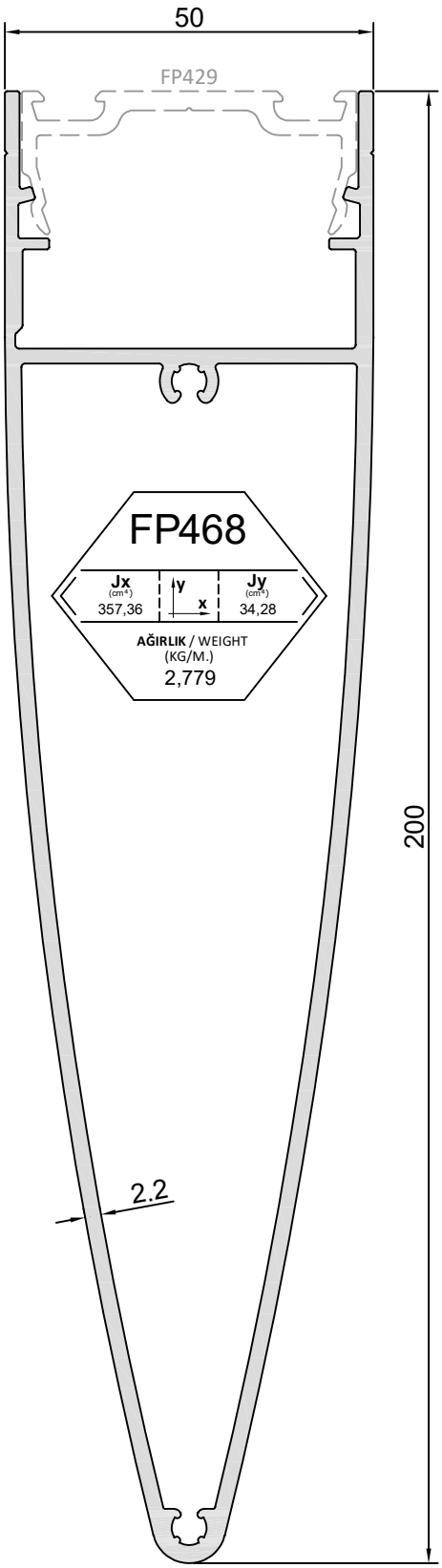
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FP467

Jx (cm⁴)	y x	Jy (cm⁴)
125,41		24,89

AĞIRLIK / WEIGHT (KG/M.)
1,885



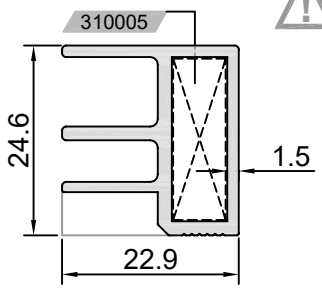
FP468

Jx (cm⁴)	y x	Jy (cm⁴)
357,36		34,28

AĞIRLIK / WEIGHT (KG/M.)
2,779

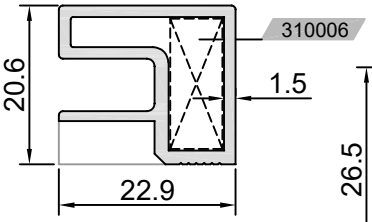
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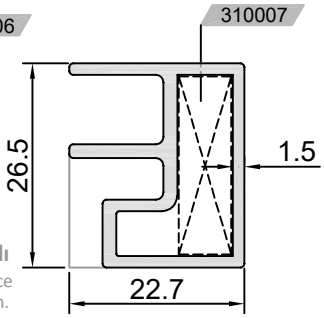
FP359 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksallı olmalıdır. / Profile code FP359's surface must be 20 micron black anodic oxidation.

FP359
AĞIRLIK / WEIGHT (KG/M.)
0,437

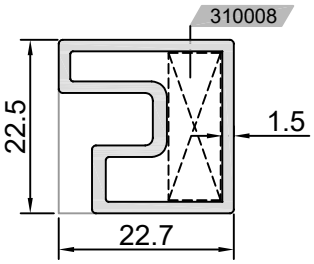


FP360 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksallı olmalıdır. / Profile code FP360's surface must be 20 micron black anodic oxidation.

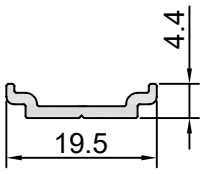
FP360
AĞIRLIK / WEIGHT (KG/M.)
0,385



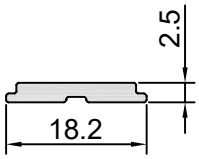
FP361
AĞIRLIK / WEIGHT (KG/M.)
0,468



FP362
AĞIRLIK / WEIGHT (KG/M.)
0,416

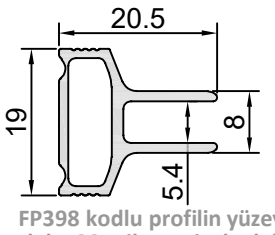


FP500
AĞIRLIK / WEIGHT (KG/M.)
0,096



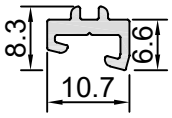
FP399 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksallı olmalıdır. / Profile code FP399's surface must be 20 micron black anodic oxidation.

FP399
AĞIRLIK / WEIGHT (KG/M.)
0,109

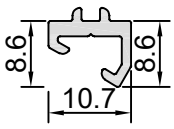


FP398 kodlu profilin yüzeyi mutlaka 20 mikron siyah eloksallı olmalıdır. / Profile code FP398's surface must be 20 micron black anodic oxidation.

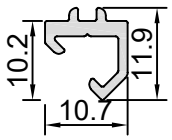
FP398
AĞIRLIK / WEIGHT (KG/M.)
0,240



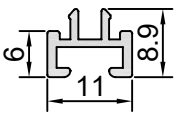
FP489
AĞIRLIK / WEIGHT (KG/M.)
0,098



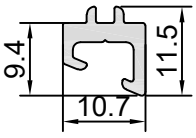
FP490
AĞIRLIK / WEIGHT (KG/M.)
0,105



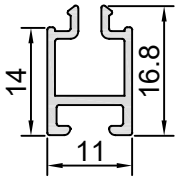
FP491
AĞIRLIK / WEIGHT (KG/M.)
0,112



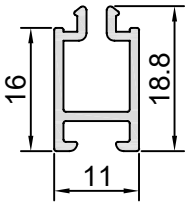
FP492
AĞIRLIK / WEIGHT (KG/M.)
0,096



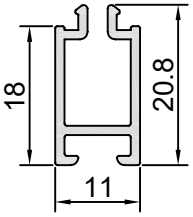
FP522
AĞIRLIK / WEIGHT (KG/M.)
0,135



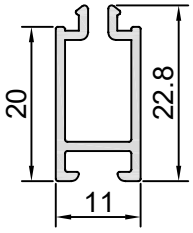
FP493
AĞIRLIK / WEIGHT (KG/M.)
0,154



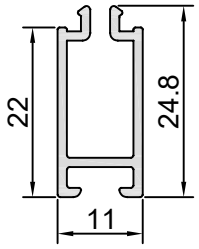
FP494
AĞIRLIK / WEIGHT (KG/M.)
0,183



FP495
AĞIRLIK / WEIGHT (KG/M.)
0,196



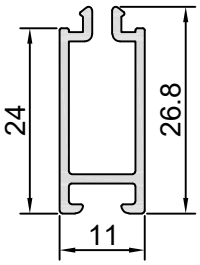
FP496
AĞIRLIK / WEIGHT (KG/M.)
0,209



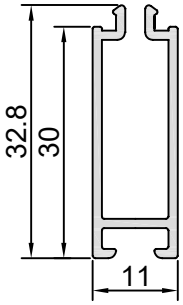
FP497
AĞIRLIK / WEIGHT (KG/M.)
0,222

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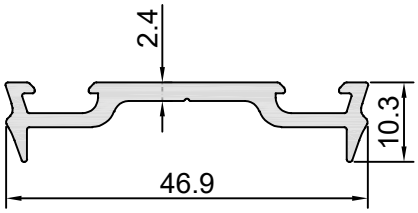
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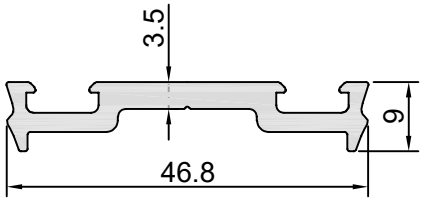
FP488
AĞIRLIK / WEIGHT (KG/M.)
0,235



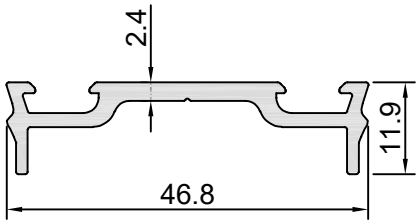
FP498
AĞIRLIK / WEIGHT (KG/M.)
0,274



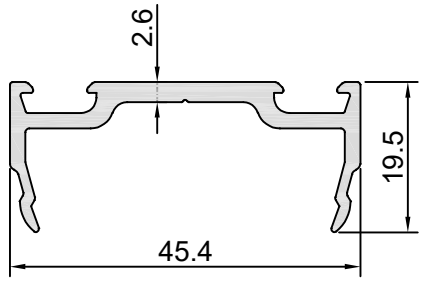
FP426
AĞIRLIK / WEIGHT (KG/M.)
0,395



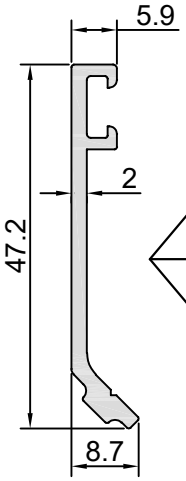
FP427
AĞIRLIK / WEIGHT (KG/M.)
0,496

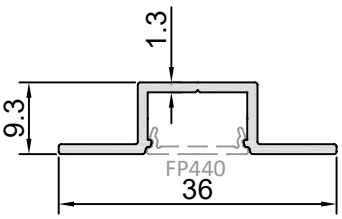


FP428
AĞIRLIK / WEIGHT (KG/M.)
0,413

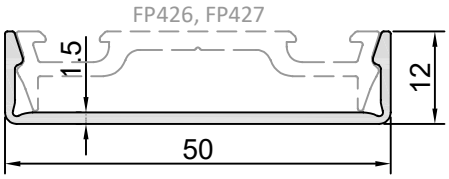


FP429
AĞIRLIK / WEIGHT (KG/M.)
0,494

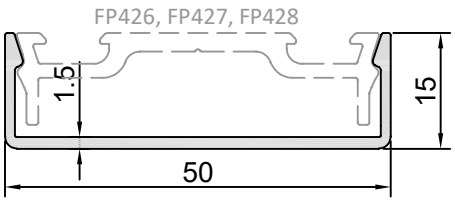




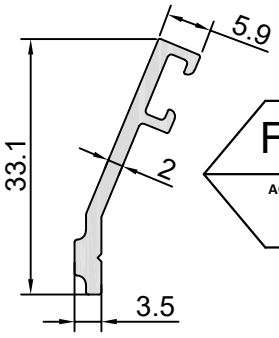
FP430
AĞIRLIK / WEIGHT (KG/M.)
0,183



FP441
AĞIRLIK / WEIGHT (KG/M.)
0,283

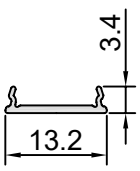


FP442
AĞIRLIK / WEIGHT (KG/M.)
0,308



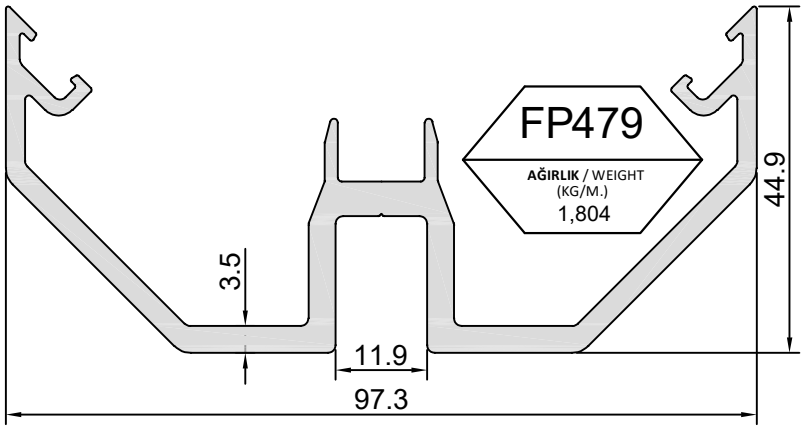
FP499
AĞIRLIK / WEIGHT (KG/M.)
0,329

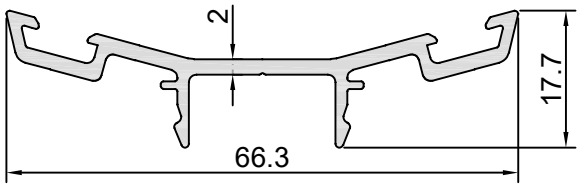
FP523
AĞIRLIK / WEIGHT (KG/M.)
0,245



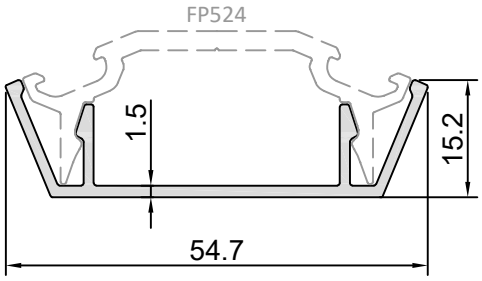
FP440
AĞIRLIK / WEIGHT (KG/M.)
0,043

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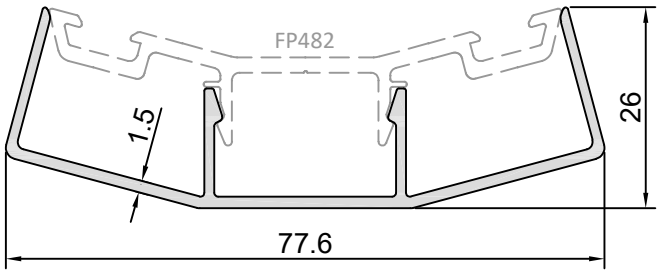




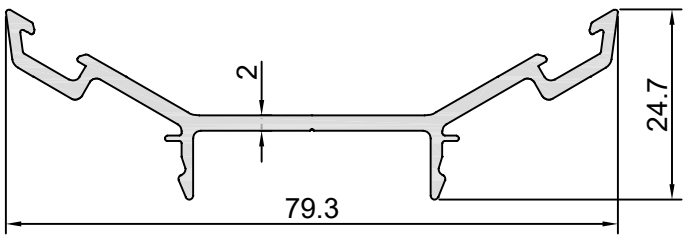
FP482
AĞIRLIK / WEIGHT
(KG/M.)
0,527



FP525
AĞIRLIK / WEIGHT
(KG/M.)
0,379

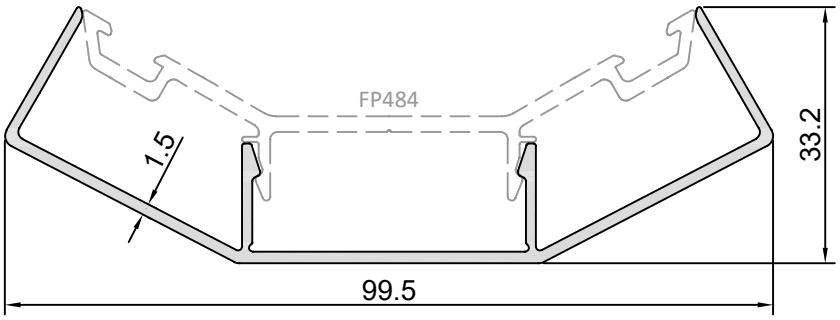


FP483
AĞIRLIK / WEIGHT
(KG/M.)
0,562



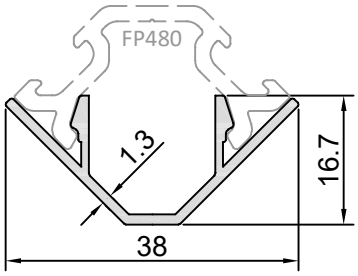
FP484
AĞIRLIK / WEIGHT
(KG/M.)
0,614

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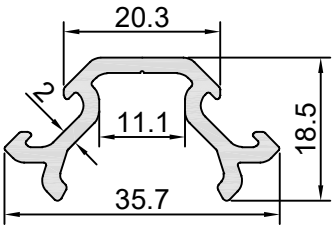
FP485

AĞIRLIK / WEIGHT
(KG/M.)
0,674



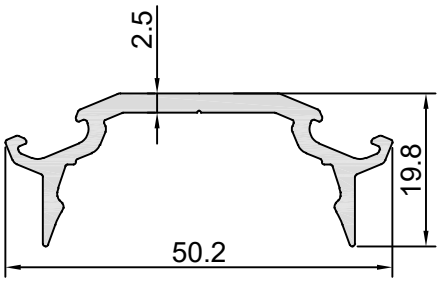
FP481

AĞIRLIK / WEIGHT
(KG/M.)
0,251



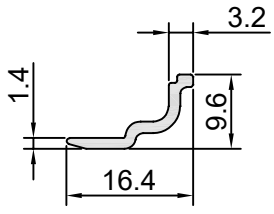
FP480

AĞIRLIK / WEIGHT
(KG/M.)
0,384



FP524

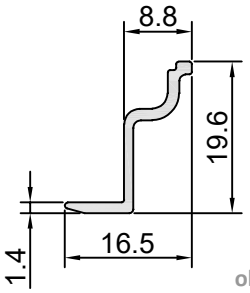
AĞIRLIK / WEIGHT
(KG/M.)
0,477



FP400

AĞIRLIK / WEIGHT
(KG/M.)
0,084

Profilin yüzeyi siyah eloksallı olmalıdır. / Profile surface have to be black anodic oxidation.



FP401

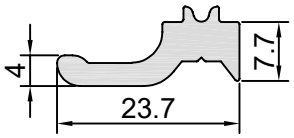
AĞIRLIK / WEIGHT
(KG/M.)
0,117

Profilin yüzeyi siyah eloksallı olmalıdır. / Profile surface have to be black anodic oxidation.

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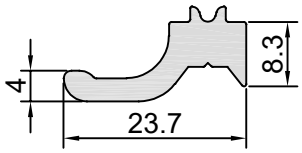
ALÜMİNYUM AKSESUAR PROFİLLERİ

PROFILES OF ALUMINIUM ACCESSORIES



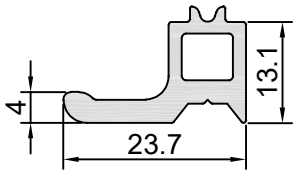
FP377

AĞIRLIK / WEIGHT (KG/M.)
0,294



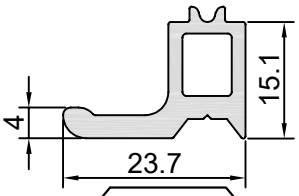
FP378

AĞIRLIK / WEIGHT (KG/M.)
0,318



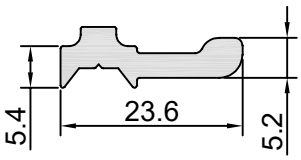
FP379

AĞIRLIK / WEIGHT (KG/M.)
0,331



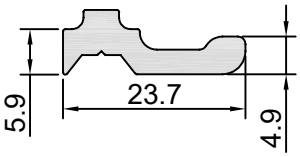
FP380

AĞIRLIK / WEIGHT (KG/M.)
0,354



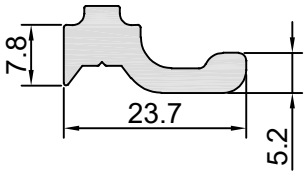
FP381

AĞIRLIK / WEIGHT (KG/M.)
0,270



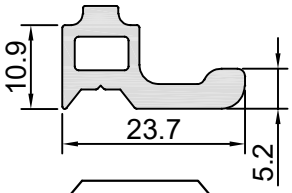
FP382

AĞIRLIK / WEIGHT (KG/M.)
0,281



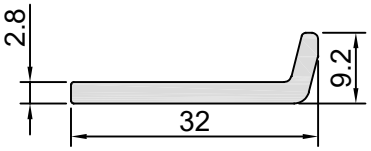
FP383

AĞIRLIK / WEIGHT (KG/M.)
0,343



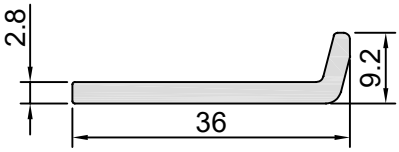
FP384

AĞIRLIK / WEIGHT (KG/M.)
0,340



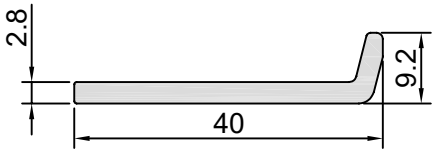
FP390

AĞIRLIK / WEIGHT (KG/M.)
0,277



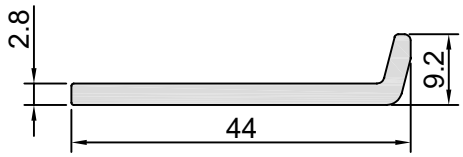
FP391

AĞIRLIK / WEIGHT (KG/M.)
0,308



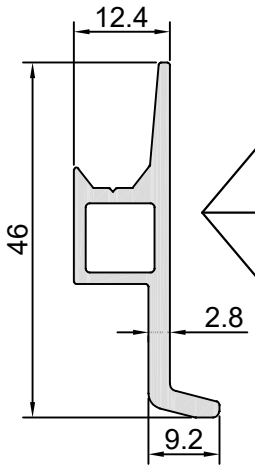
FP392

AĞIRLIK / WEIGHT (KG/M.)
0,338



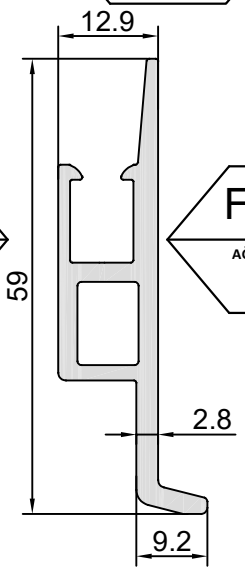
FP393

AĞIRLIK / WEIGHT (KG/M.)
0,368



FP394

AĞIRLIK / WEIGHT (KG/M.)
0,482



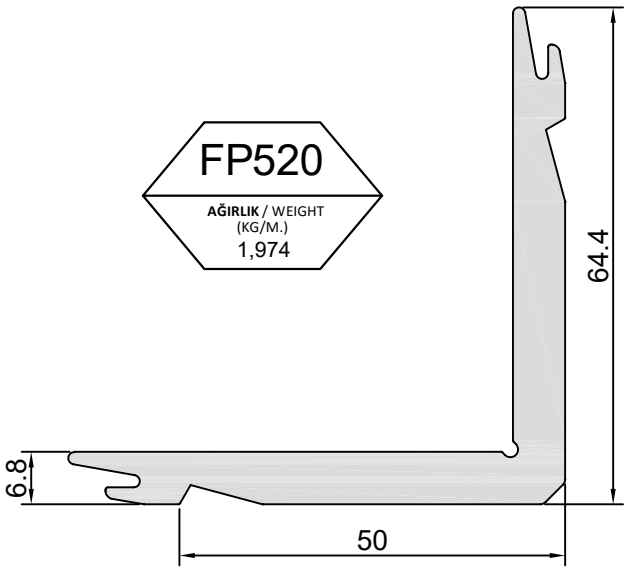
FP403

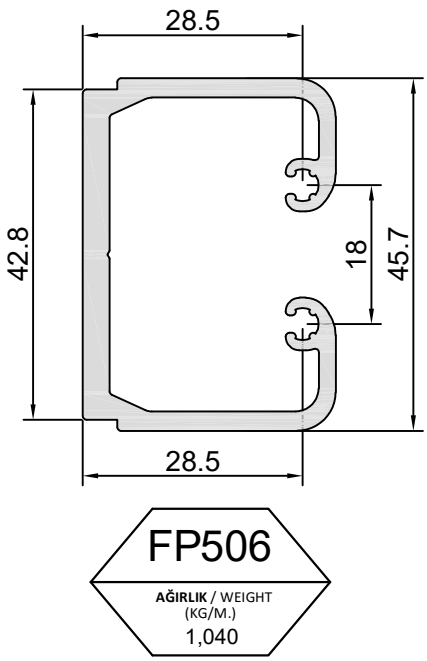
AĞIRLIK / WEIGHT (KG/M.)
0,721

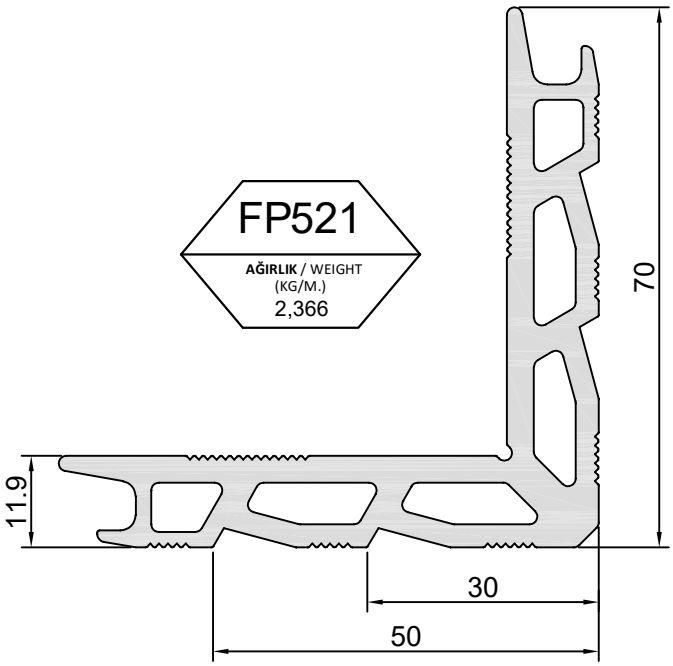
Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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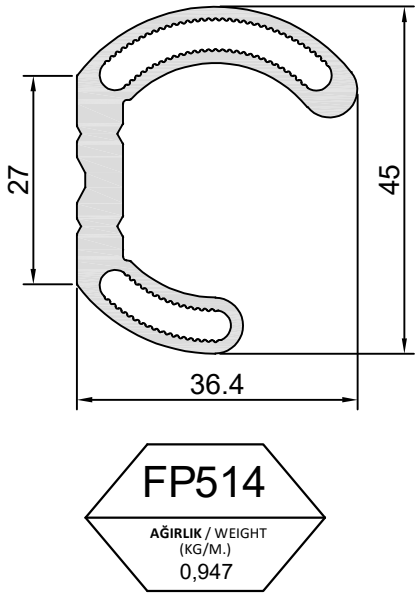
ALÜMİNYUM AKSESUAR PROFİLLERİ

PROFILES OF ALUMINIUM ACCESSORIES





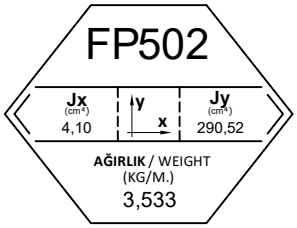


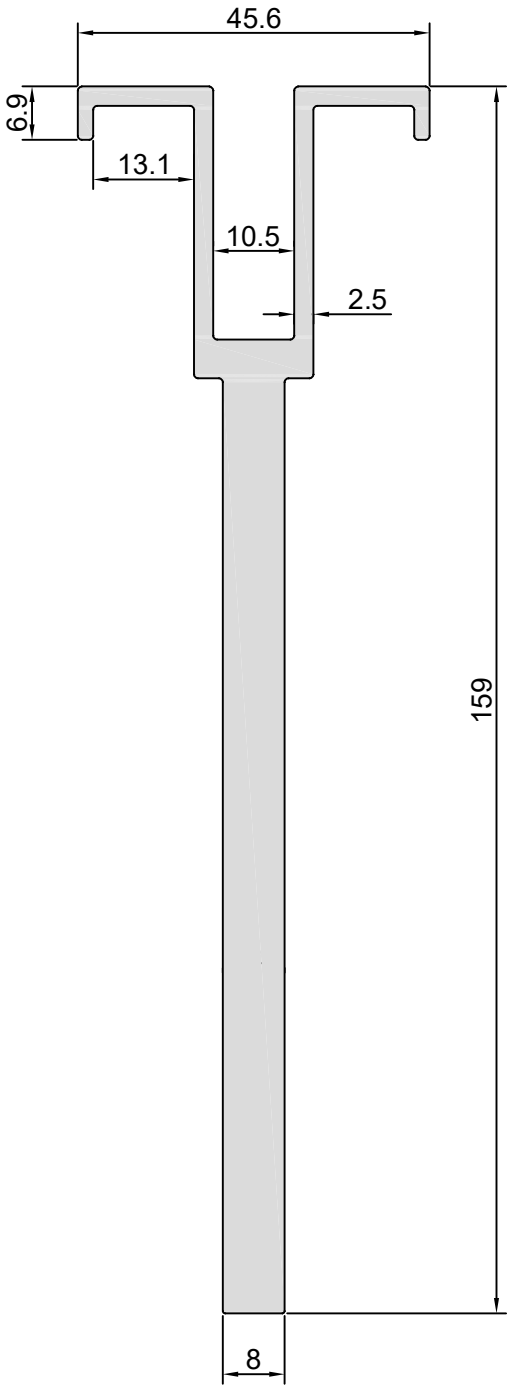


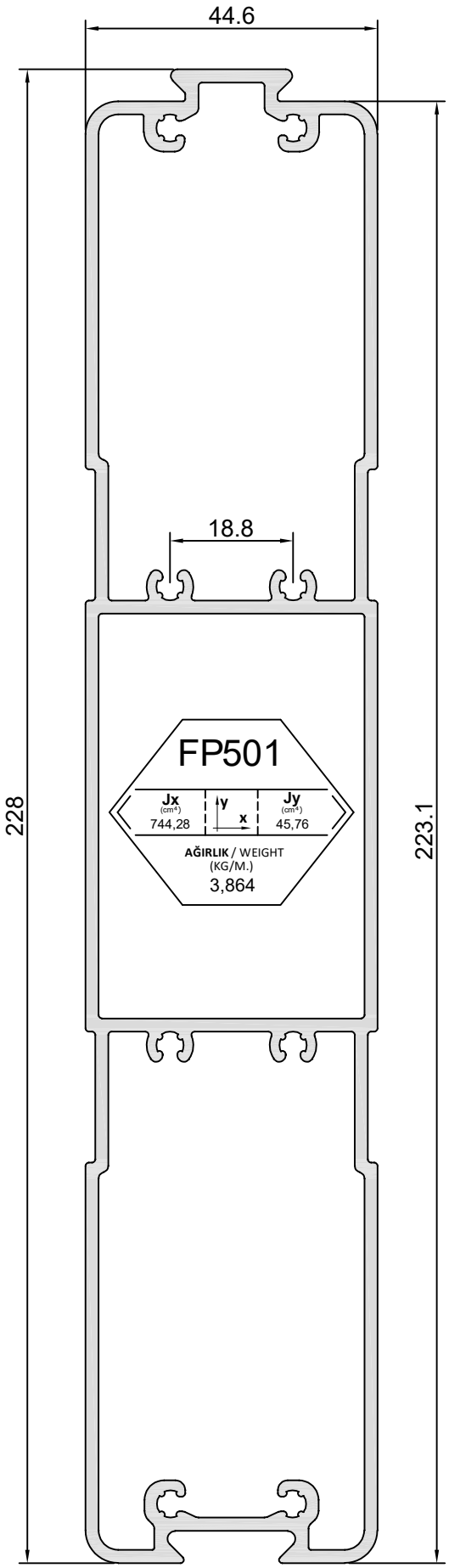
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PROFILES OF ALUMINIUM ACCESSORIES







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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

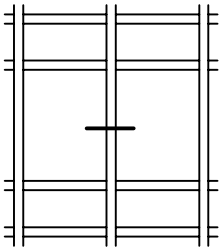
TARAMA STİLLERİ / HATCH STYLES

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

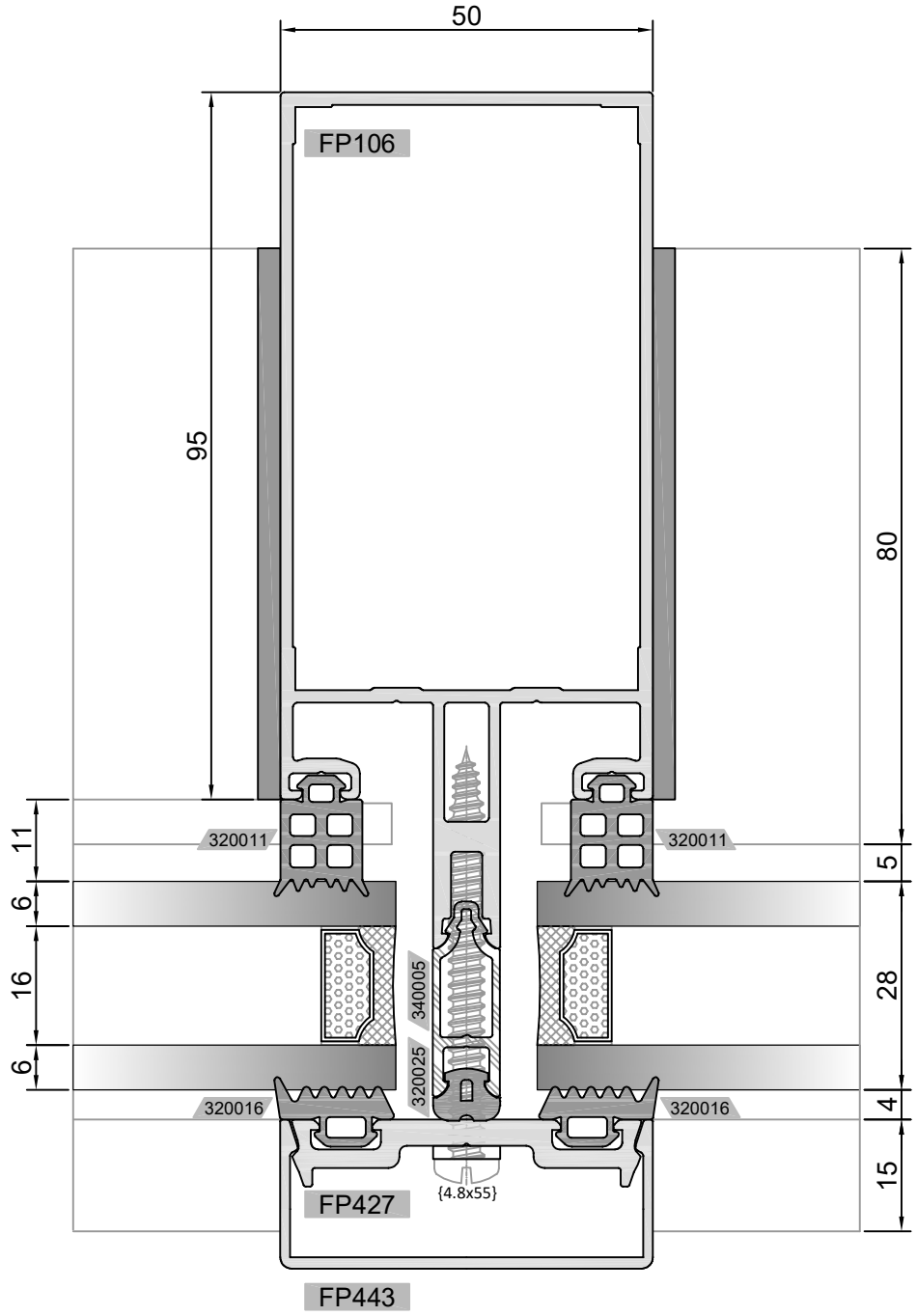
SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
SİSTEM ALÜMİNYUM® HAS THE RIGHTS TO MAKE CORRECTION OR MODIFICATION IN THE CATALOGUE DATA.

KAPAKLI CEPHE
CAPPED CURTAIN WALL

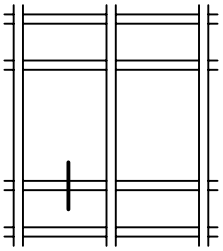
SİSTEM ALÜMİNYUM® KATALOG İÇERİSİNDEKİ VERİLERDE DÜZELTME VEYA DEĞİŞİKLİK YAPMA HAKKINA SAHİPTİR.
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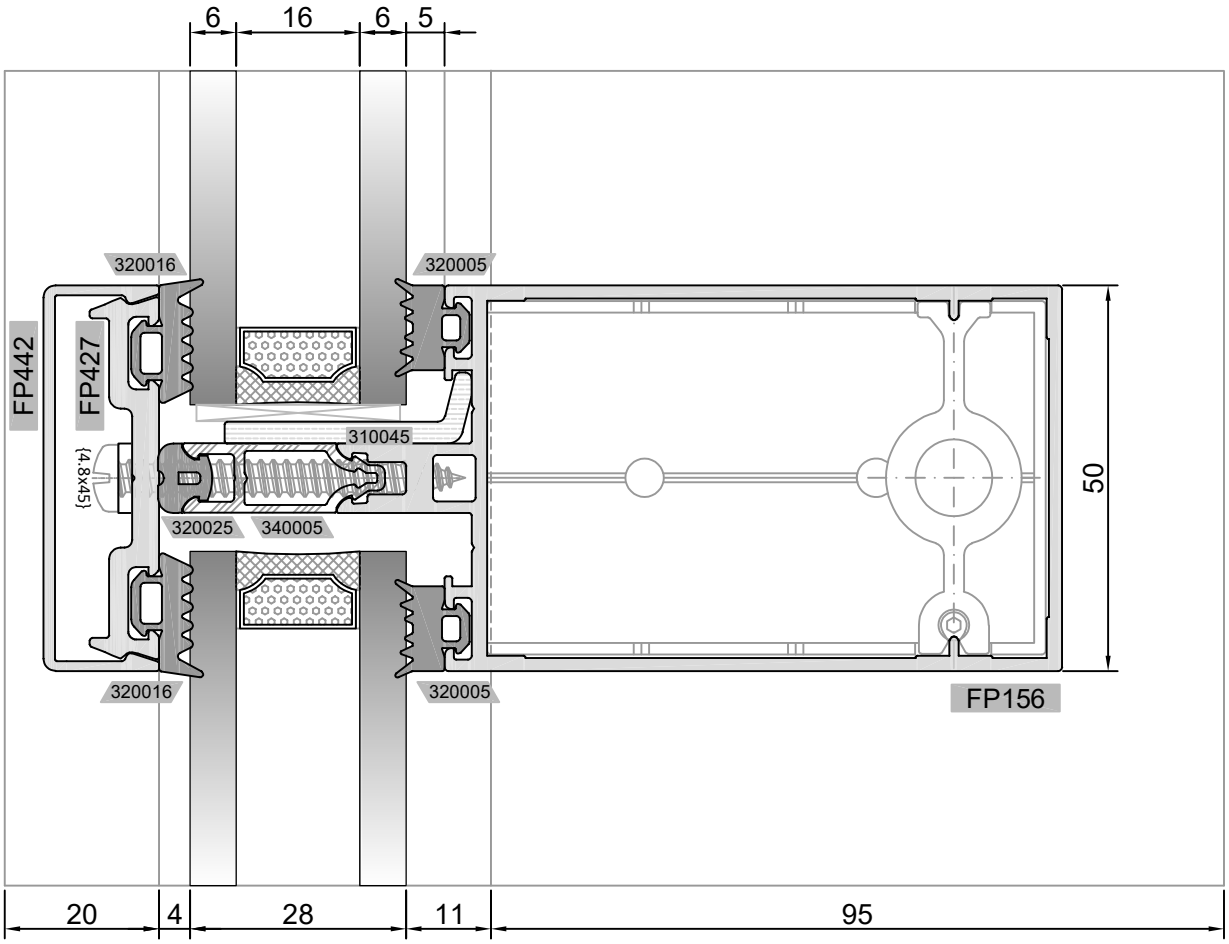
DÜŞEY DETAYI
VERTICAL DETAIL



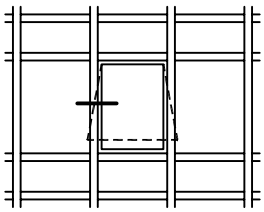
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YATAY DETAYI
HORIZONTAL DETAIL

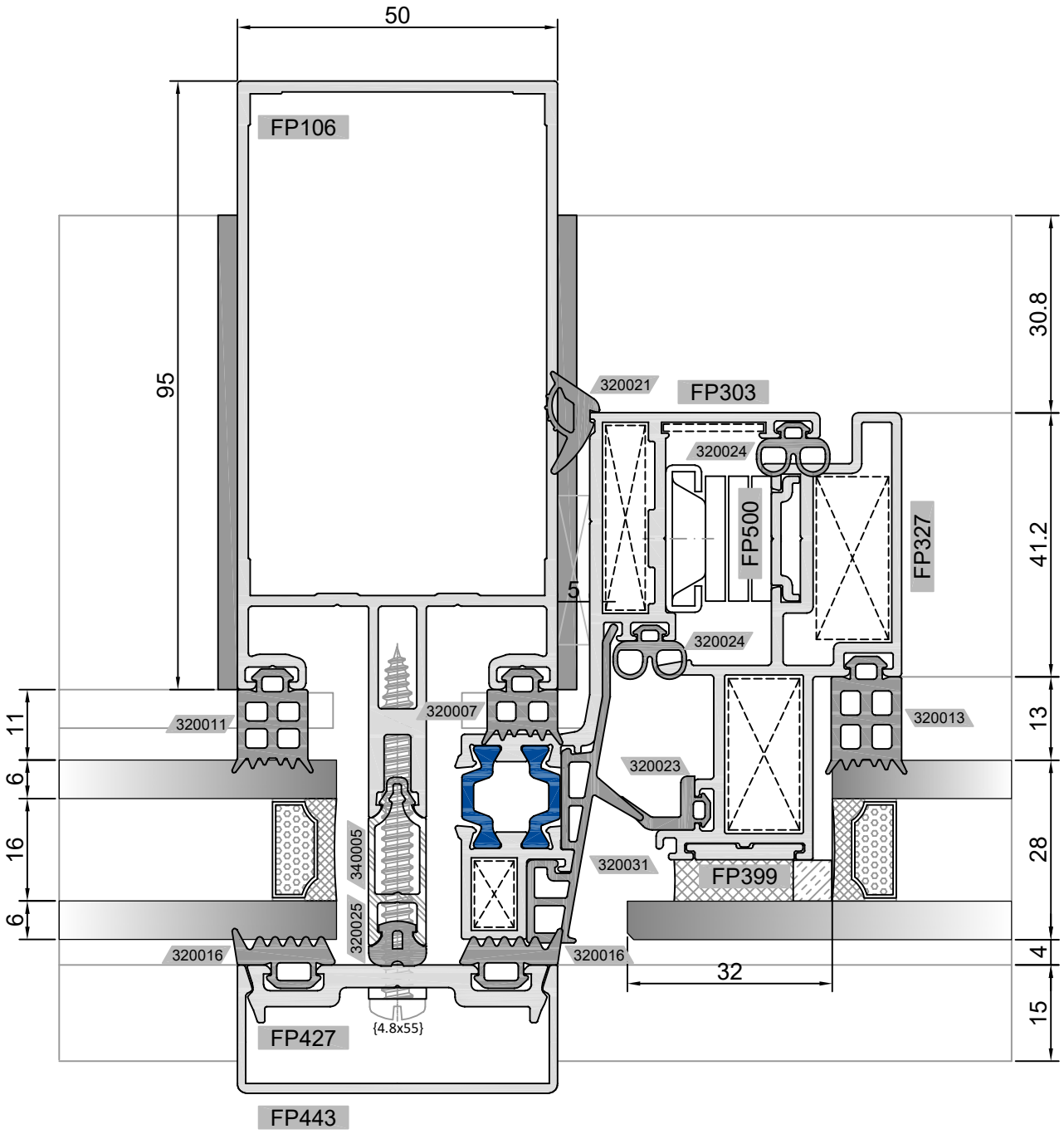


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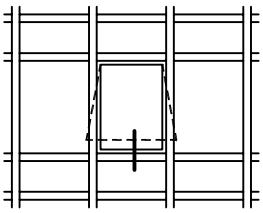
ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

DÜŞEY DETAYI
VERTICAL DETAIL



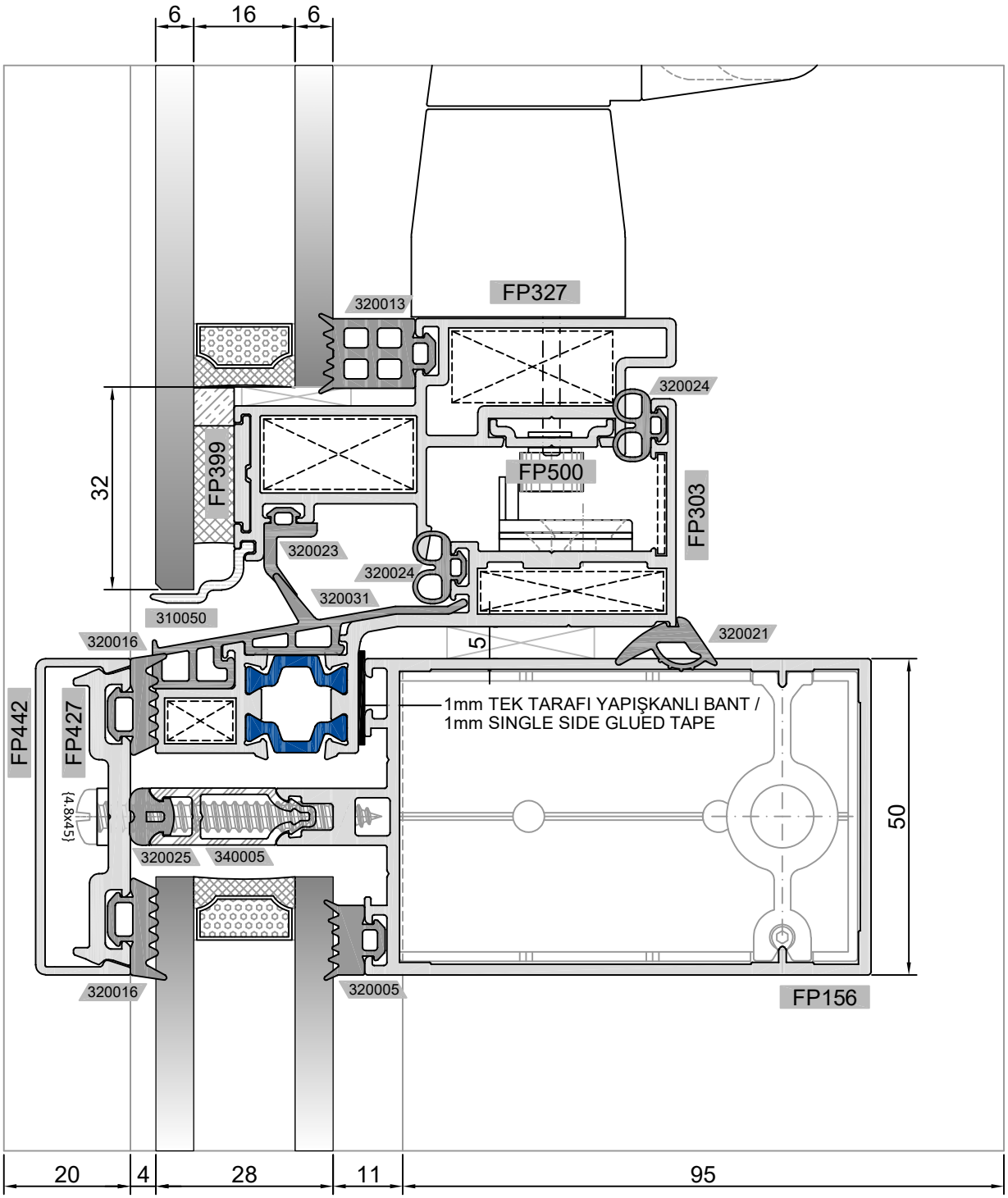
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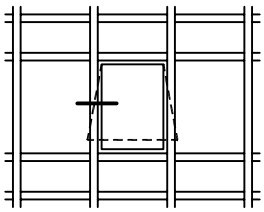


ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

YATAY DETAYI
HORIZONTAL DETAIL

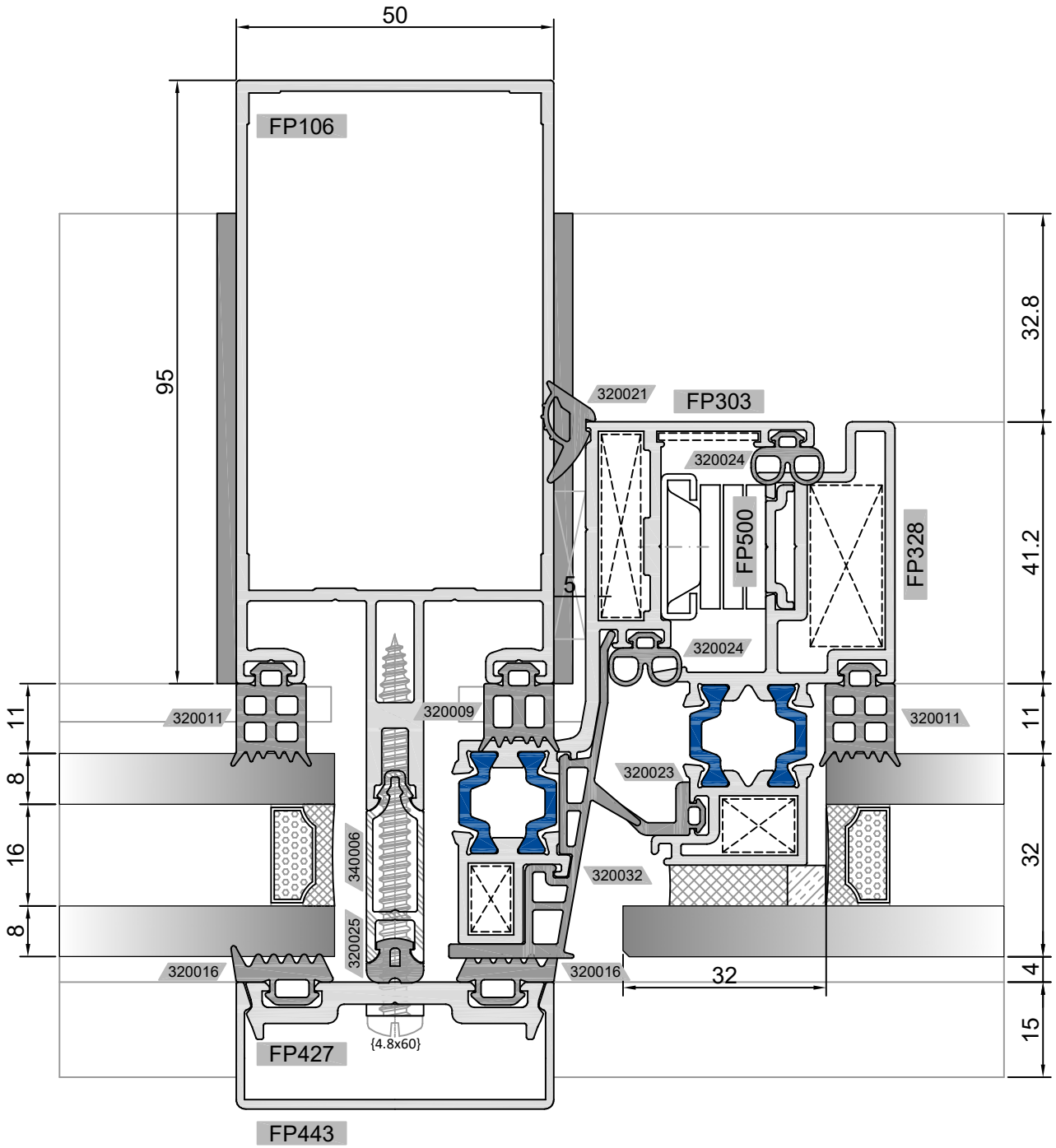


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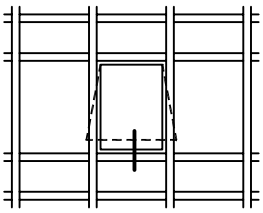
ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

DÜŞEY DETAYI
VERTICAL DETAIL



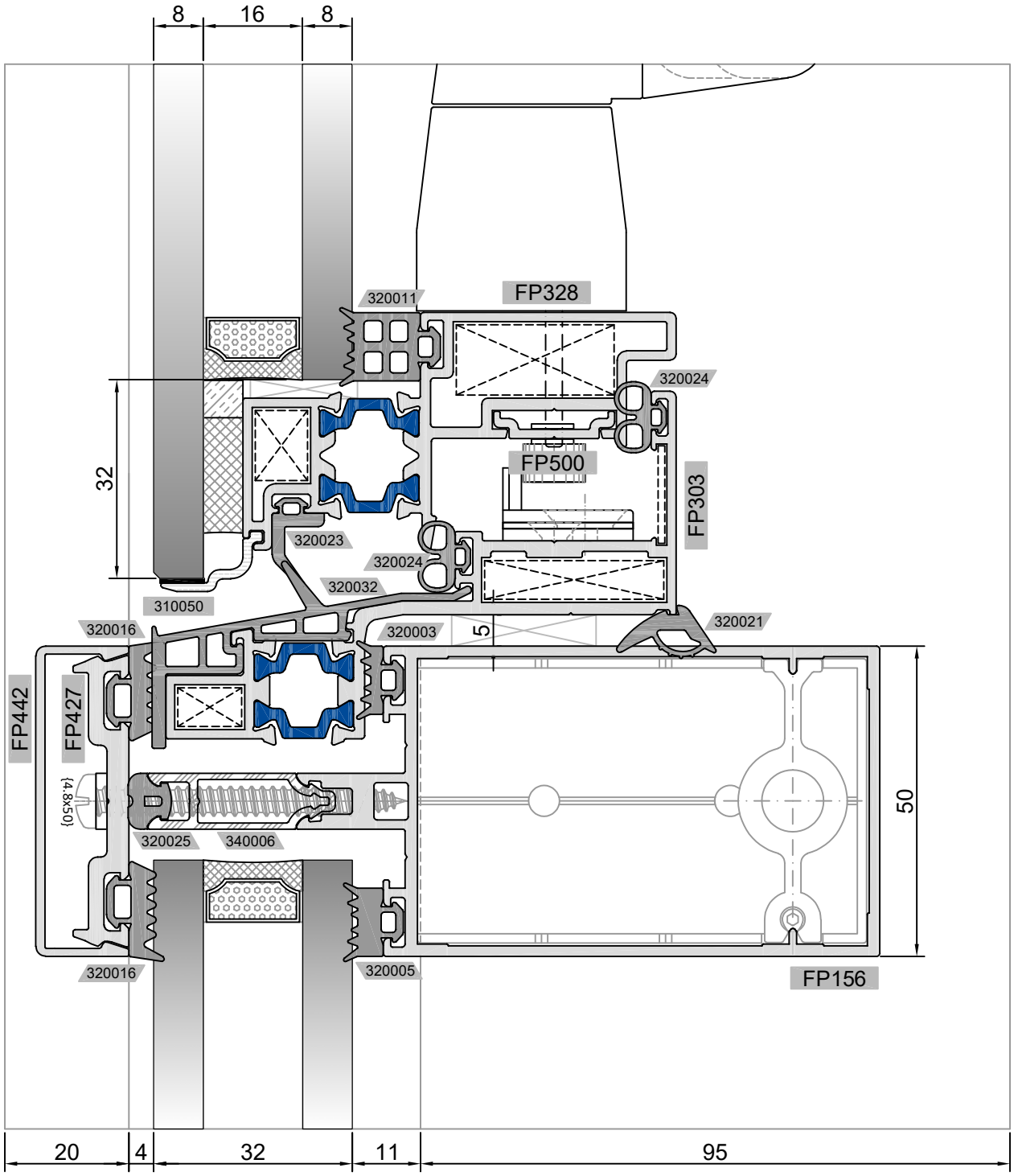
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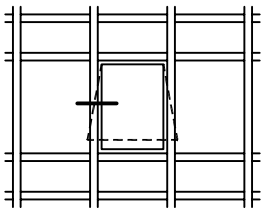


ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

YATAY DETAYI
HORIZONTAL DETAIL

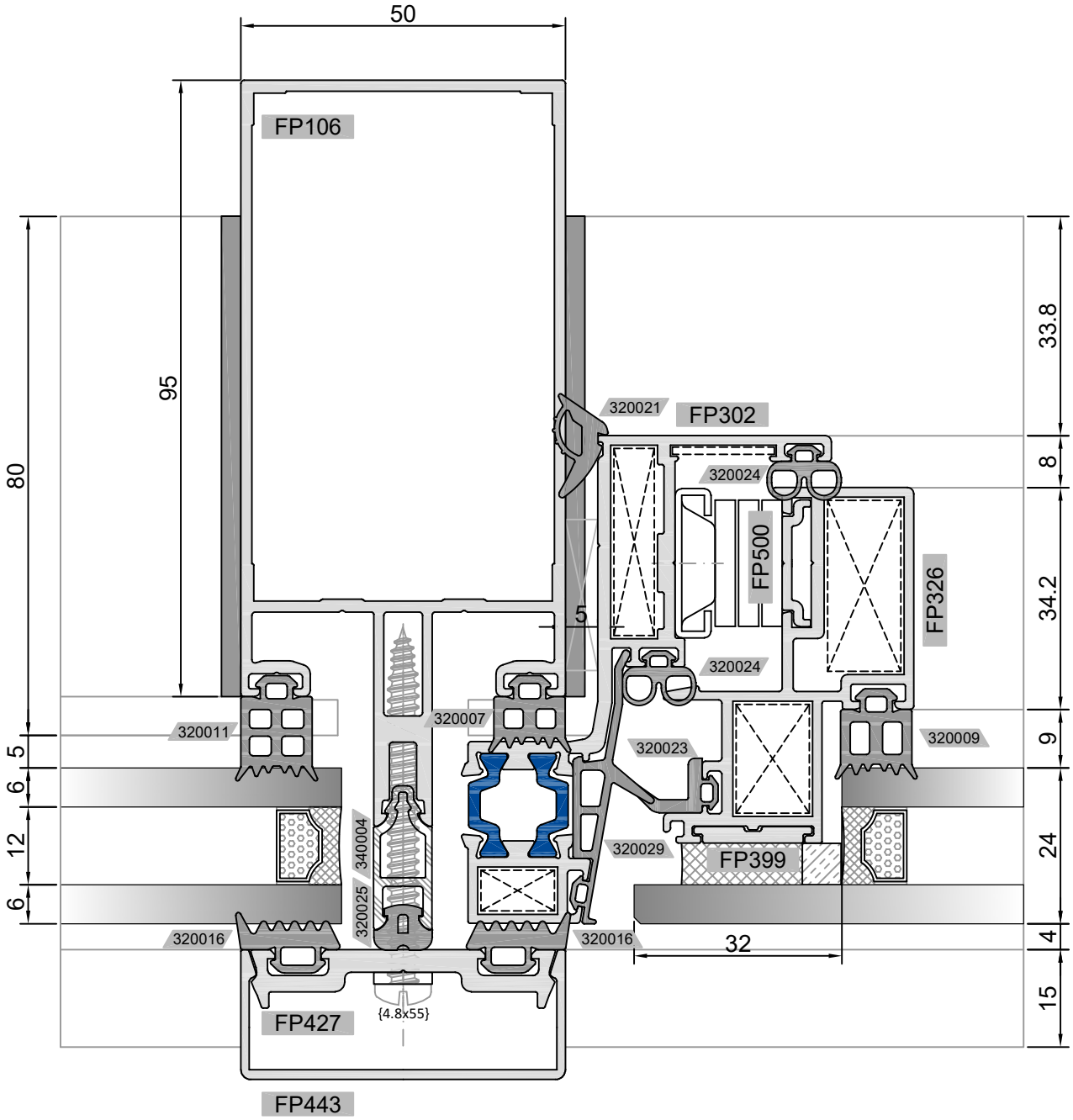


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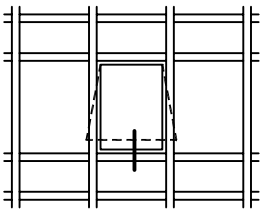
DÜŞEY DETAYI
VERTICAL DETAIL

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



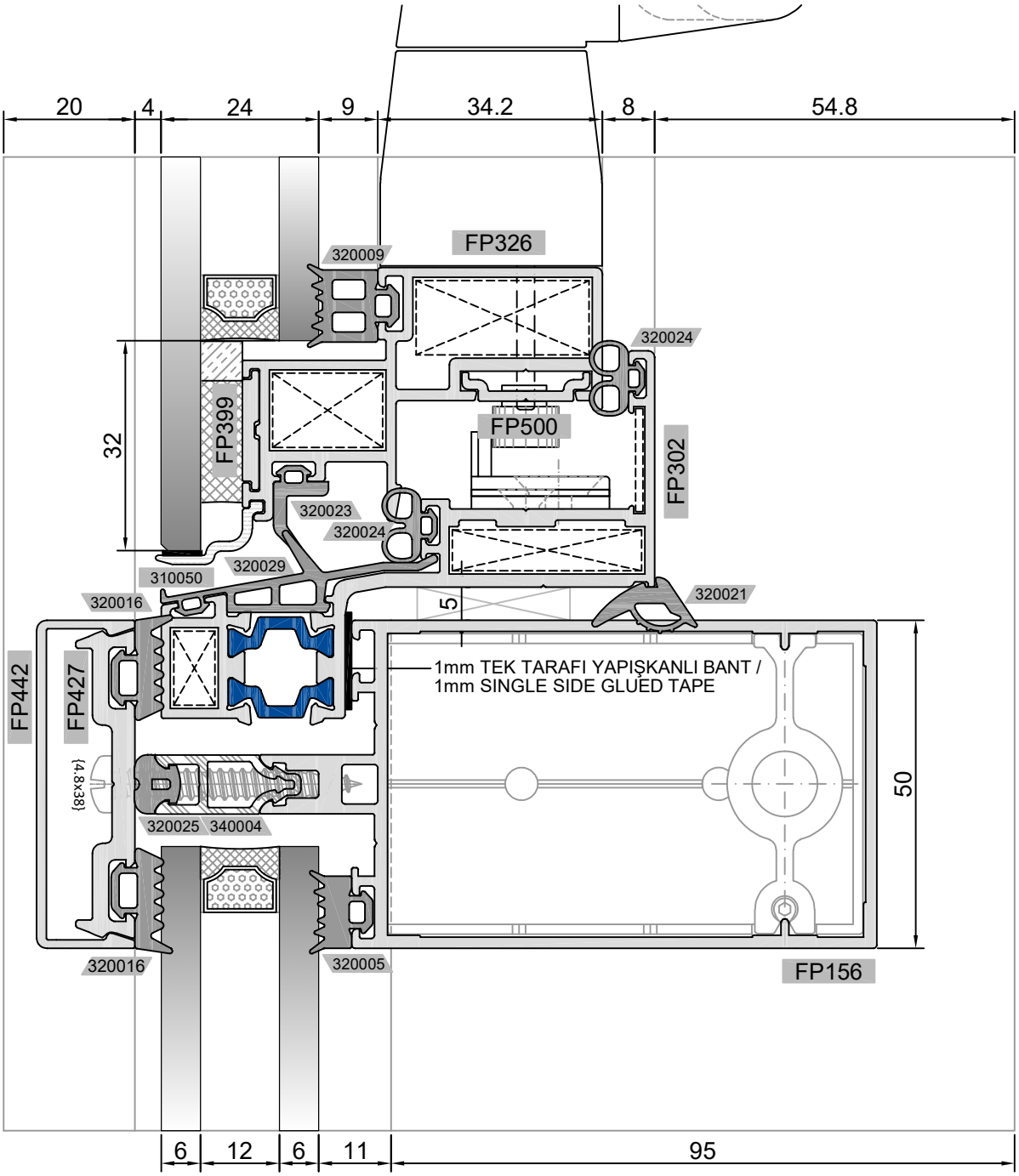
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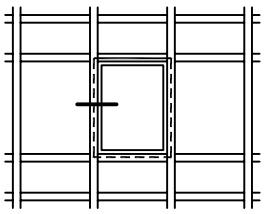


ALTERNATİF 3: EKONOMİK KANAT DETAYI
ALTERNATIVE 3 : ECONOMICAL VENT DETAIL

YATAY DETAYI
HORIZONTAL DETAIL

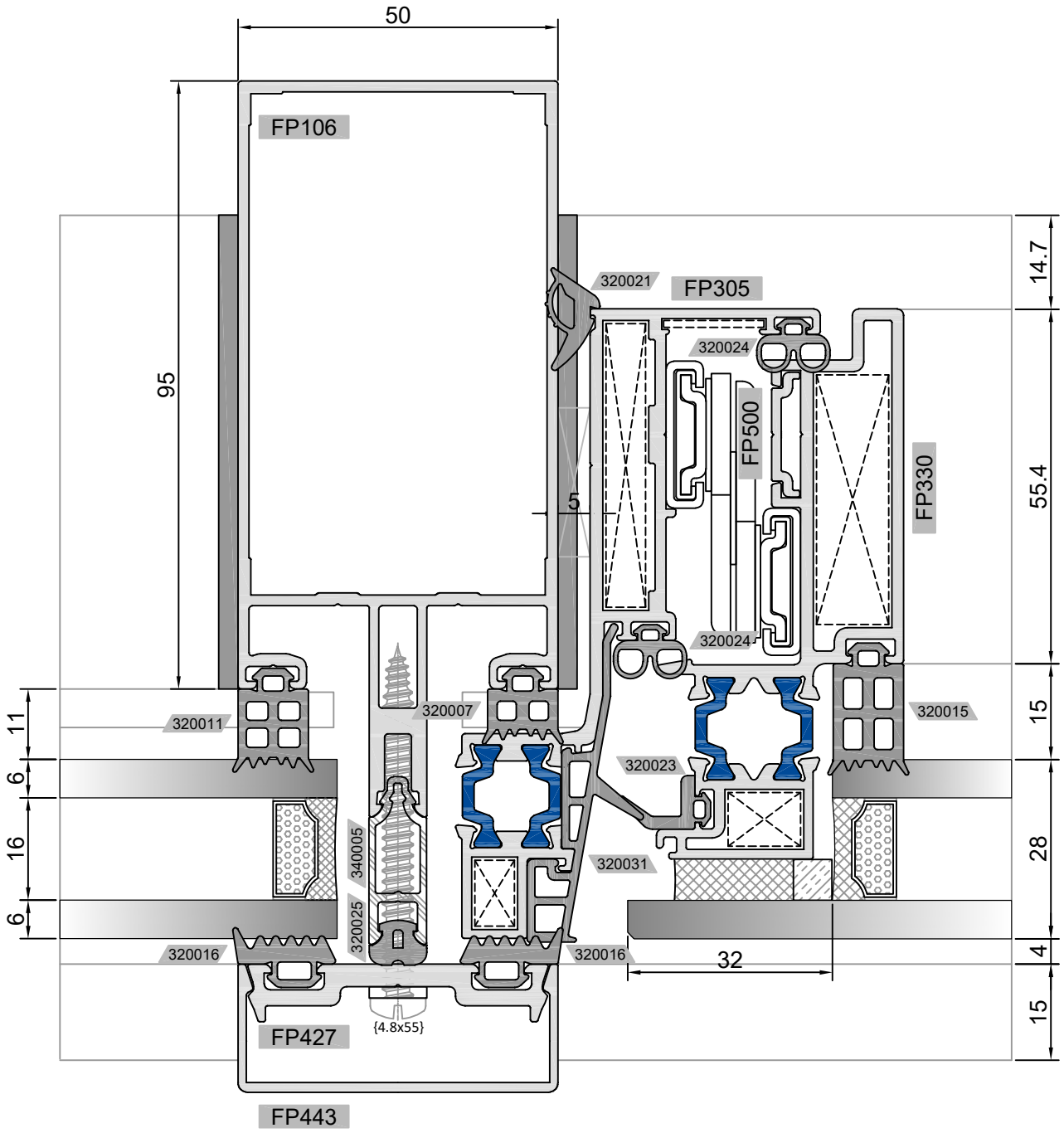


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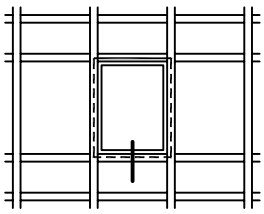
ALTERNATİF 1: YALITIMLI PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 1 : PARALEL OPENING INSULATED VENT DETAIL

DÜŞEY DETAYI
VERTICAL DETAIL



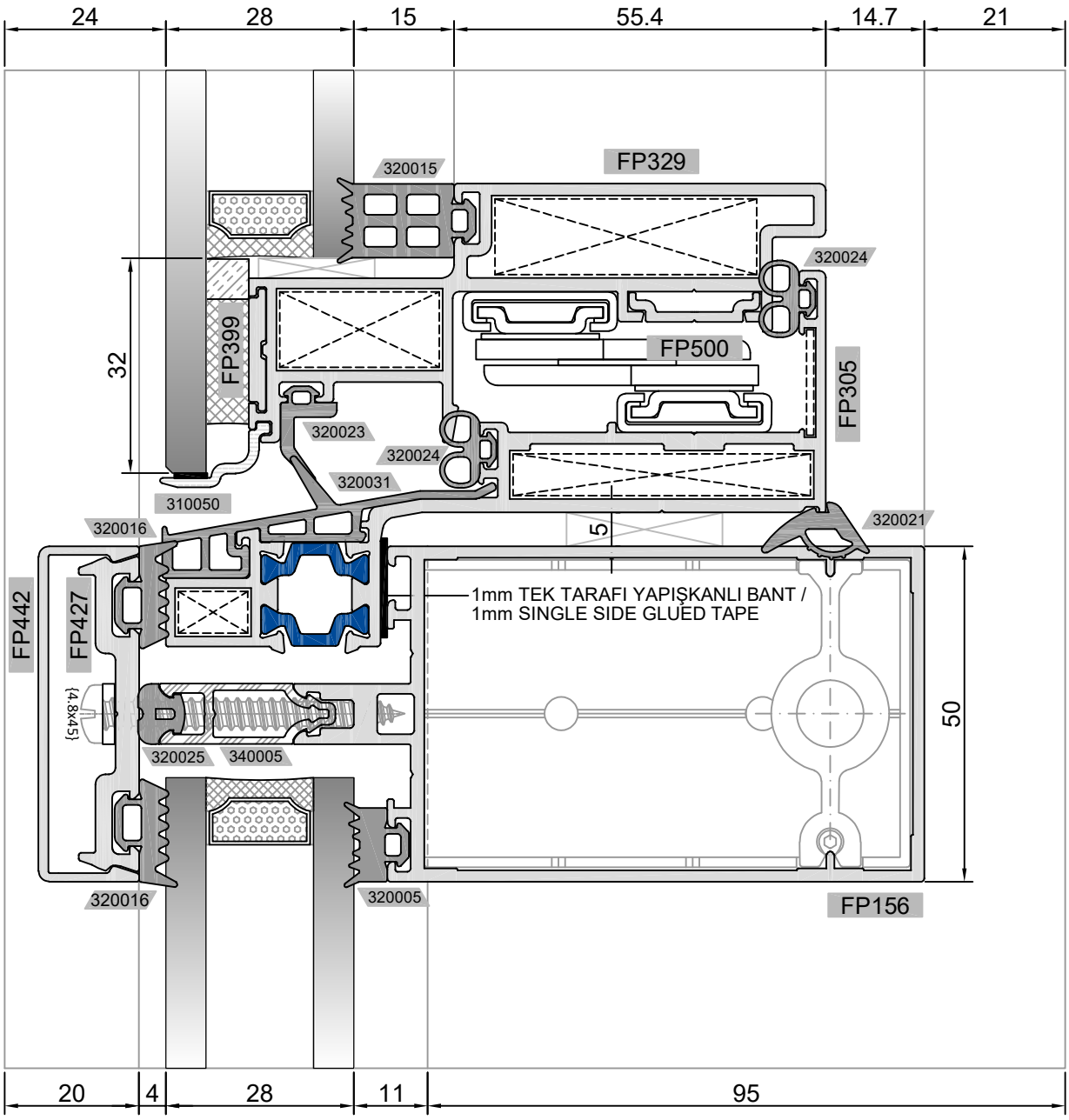
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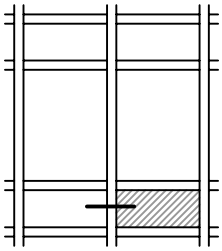


ALTERNATİF 2: YALITIMSIZ PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 2 : PARALEL OPENING UNINSULATED VENT DETAIL

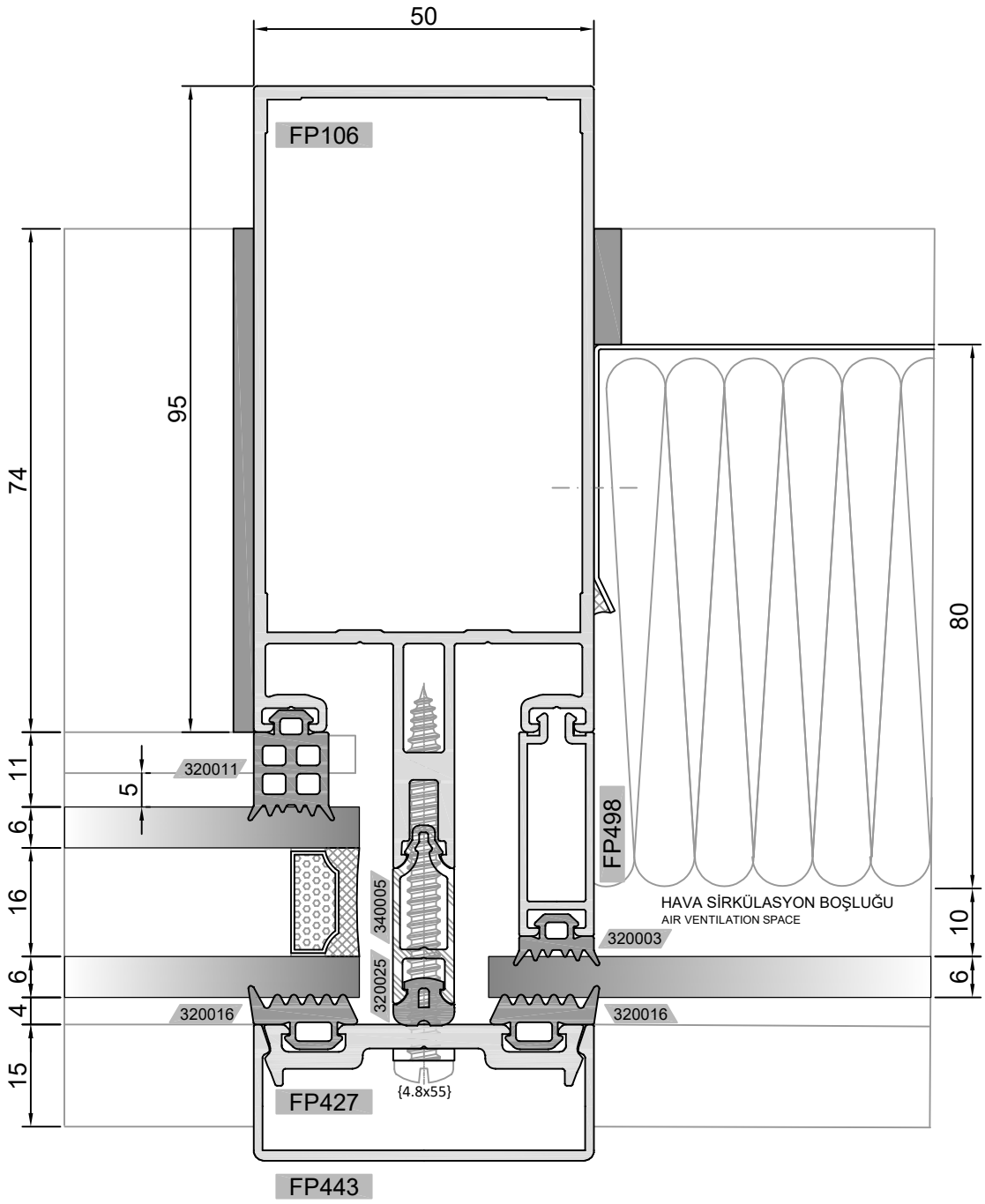
YATAY DETAYI
HORIZONTAL DETAIL



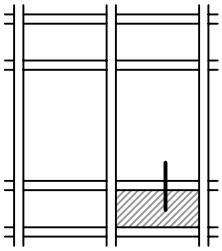
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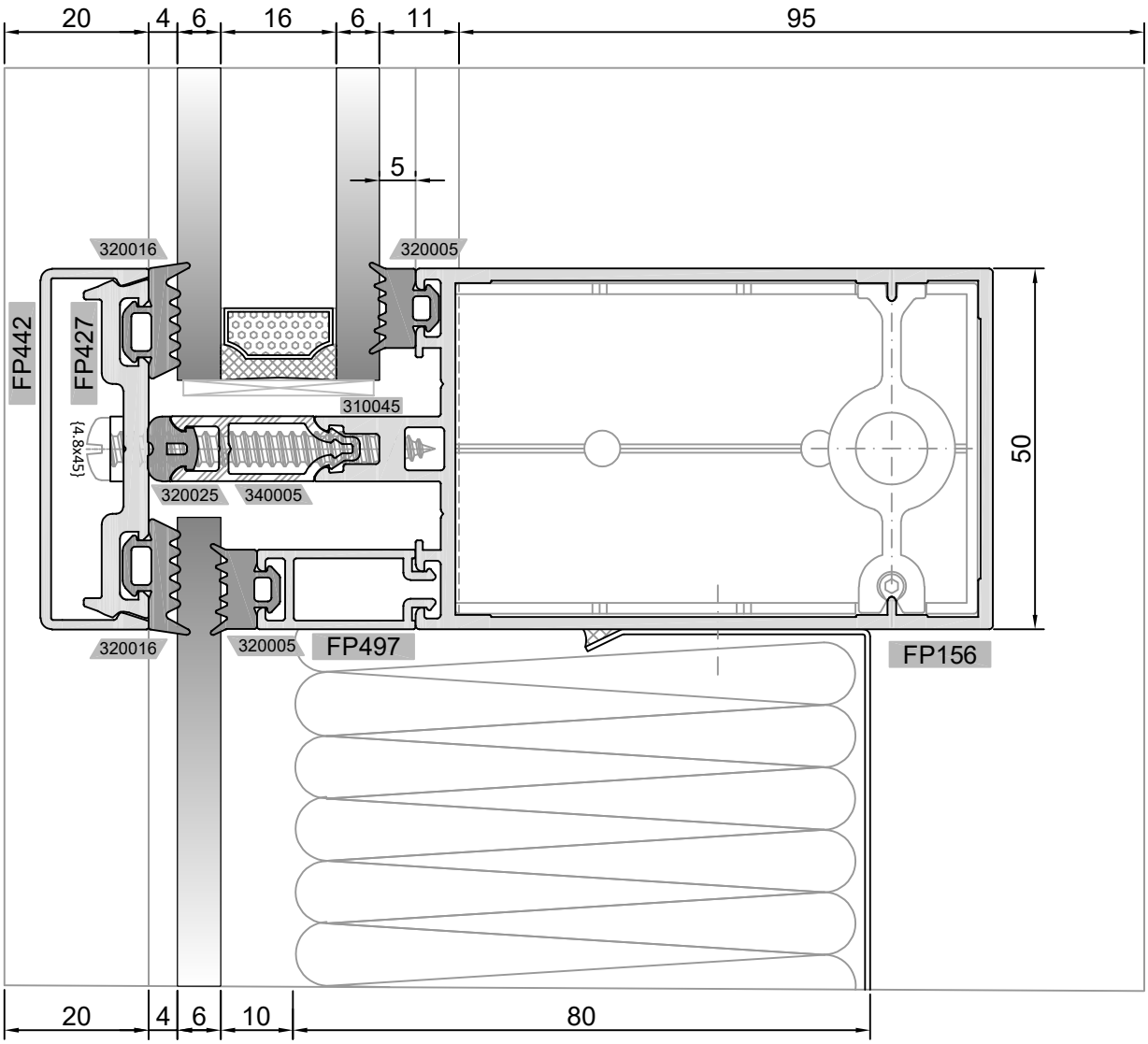
SPANDREL BÖLGE DÜŞEY DETAYI
SPANDREL AREA VERTICAL DETAIL



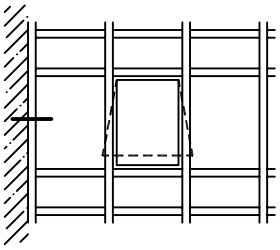
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SPANDREL BÖLGE YATAY DETAYI
SPANDREL AREA HORIZONTAL DETAIL



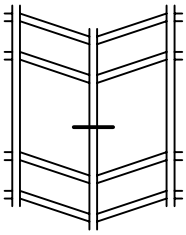
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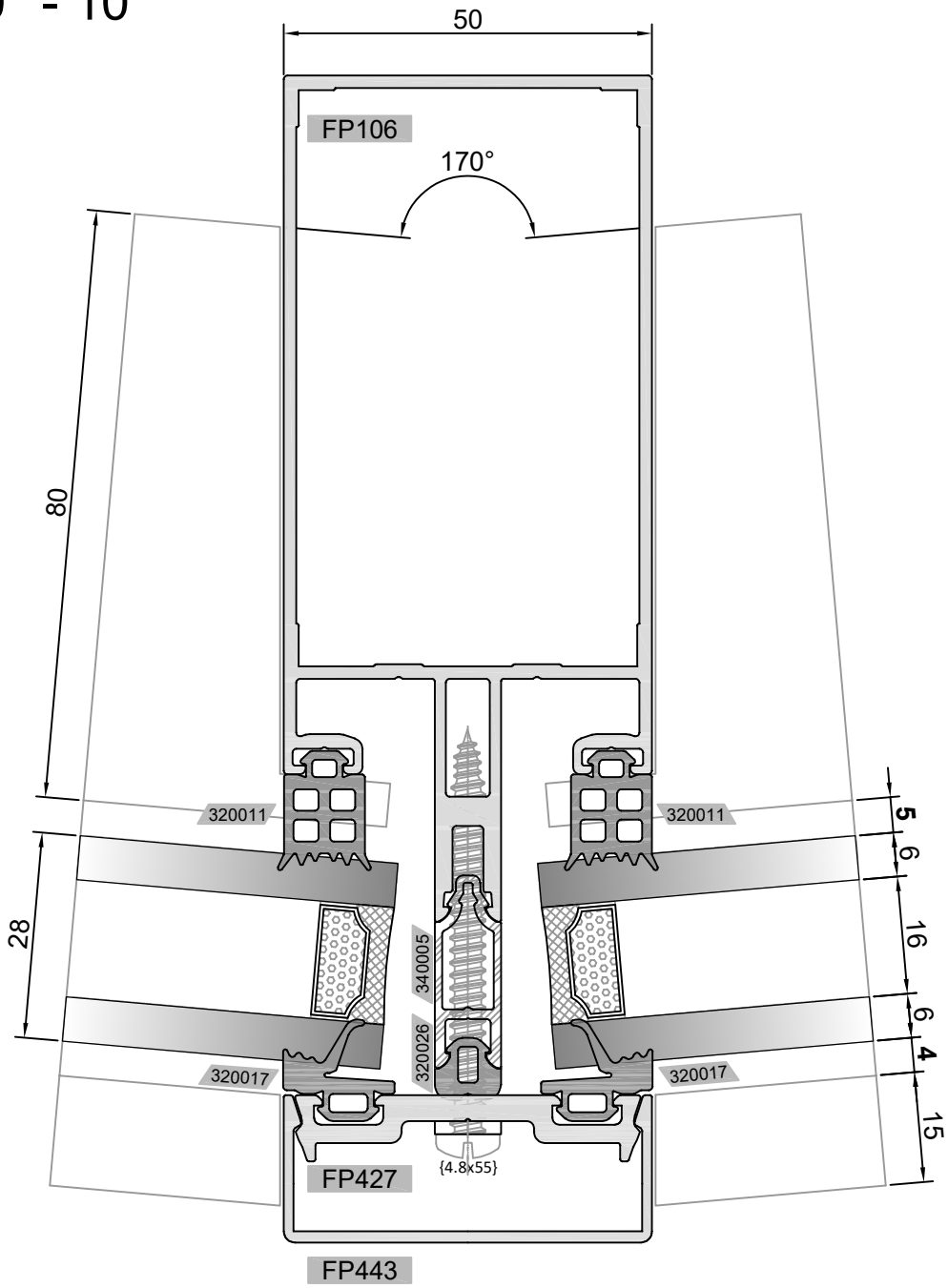
DUVAR BİTİŞ DETAYI
WALL JOINT DETAIL

Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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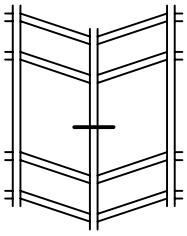
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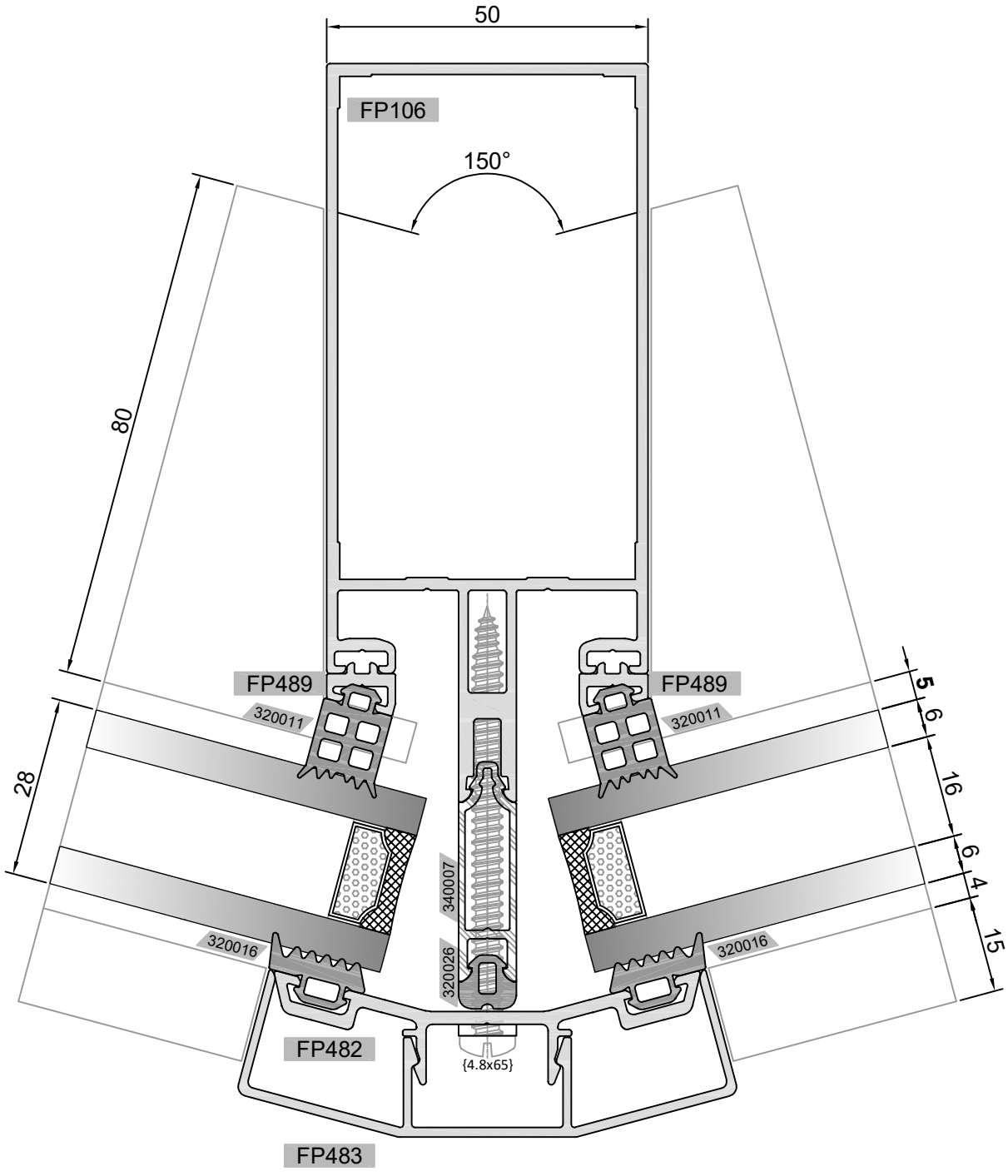
0° - 10°



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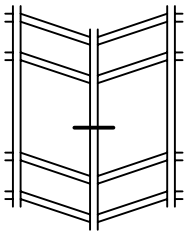


10° - 30°

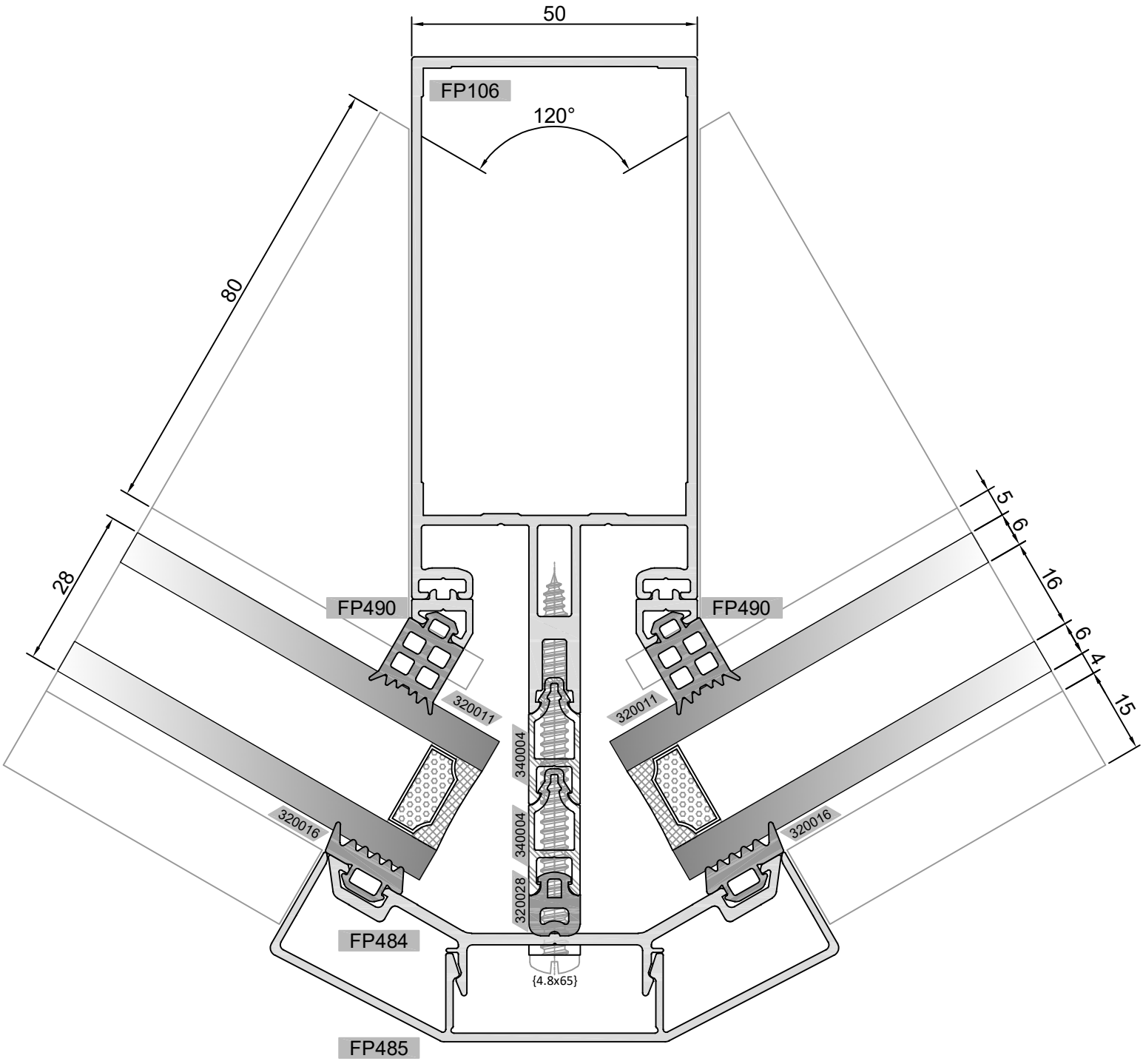


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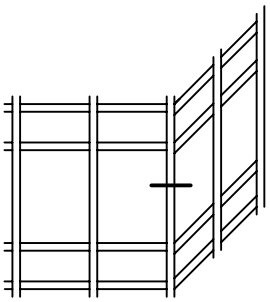
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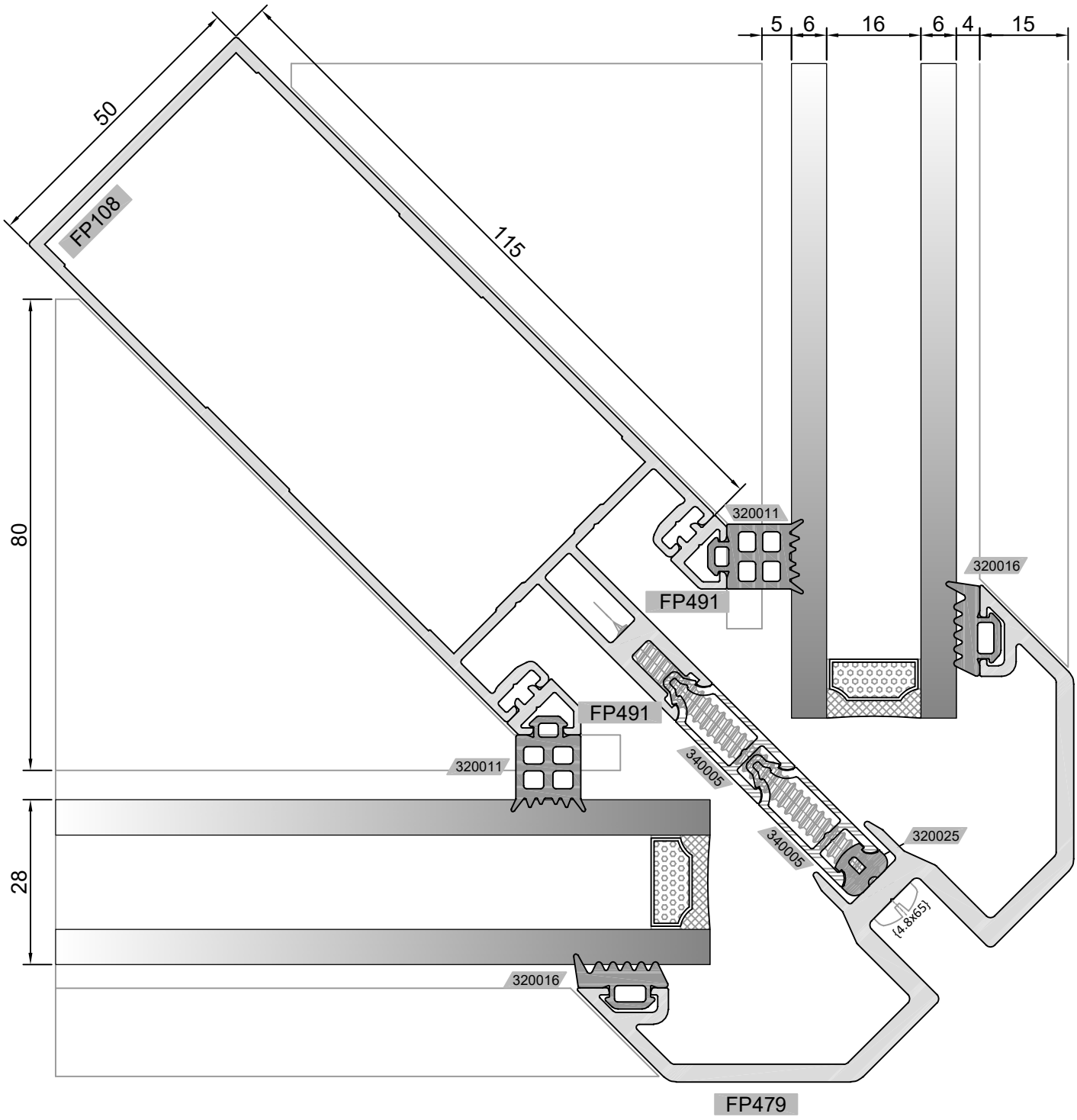
30° - 60°



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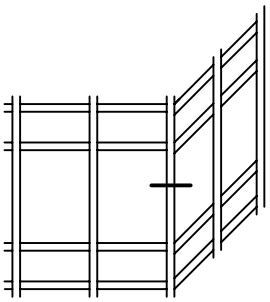


ALTERNATİF 1: TEK KAPAKLI KÖŞE DETAYI
ALTERNATIVE 1 : CORNER DETAIL WITH SINGLE CAP



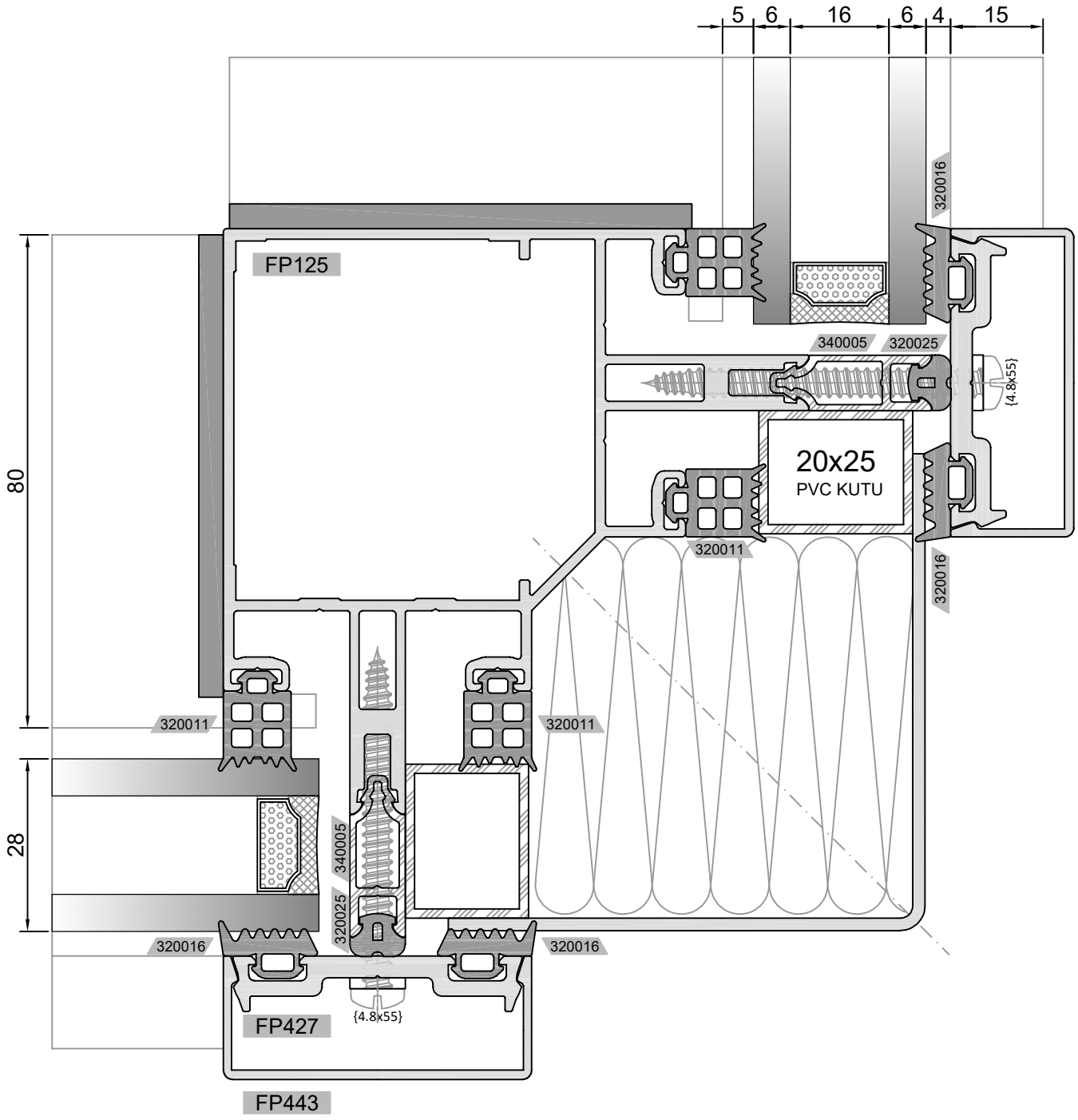
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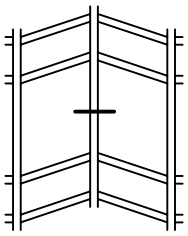


90°

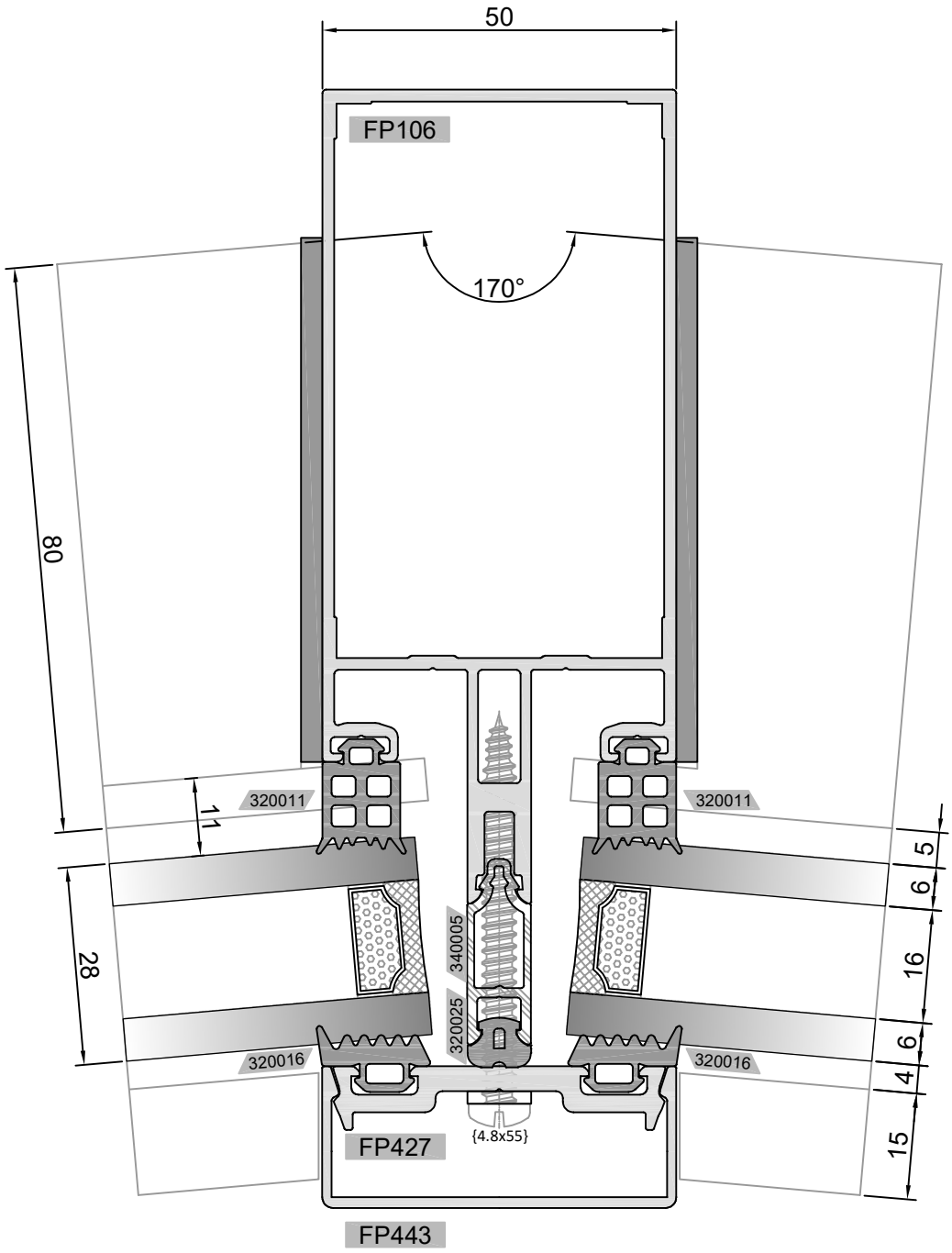
ALTERNATİF 2: ÇİFT KAPAKLI KÖŞE DETAYI
ALTERNATIVE 2 : CORNER DETAIL WITH DOUBLE CAP



Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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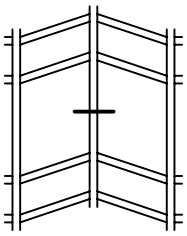


10° - 0°

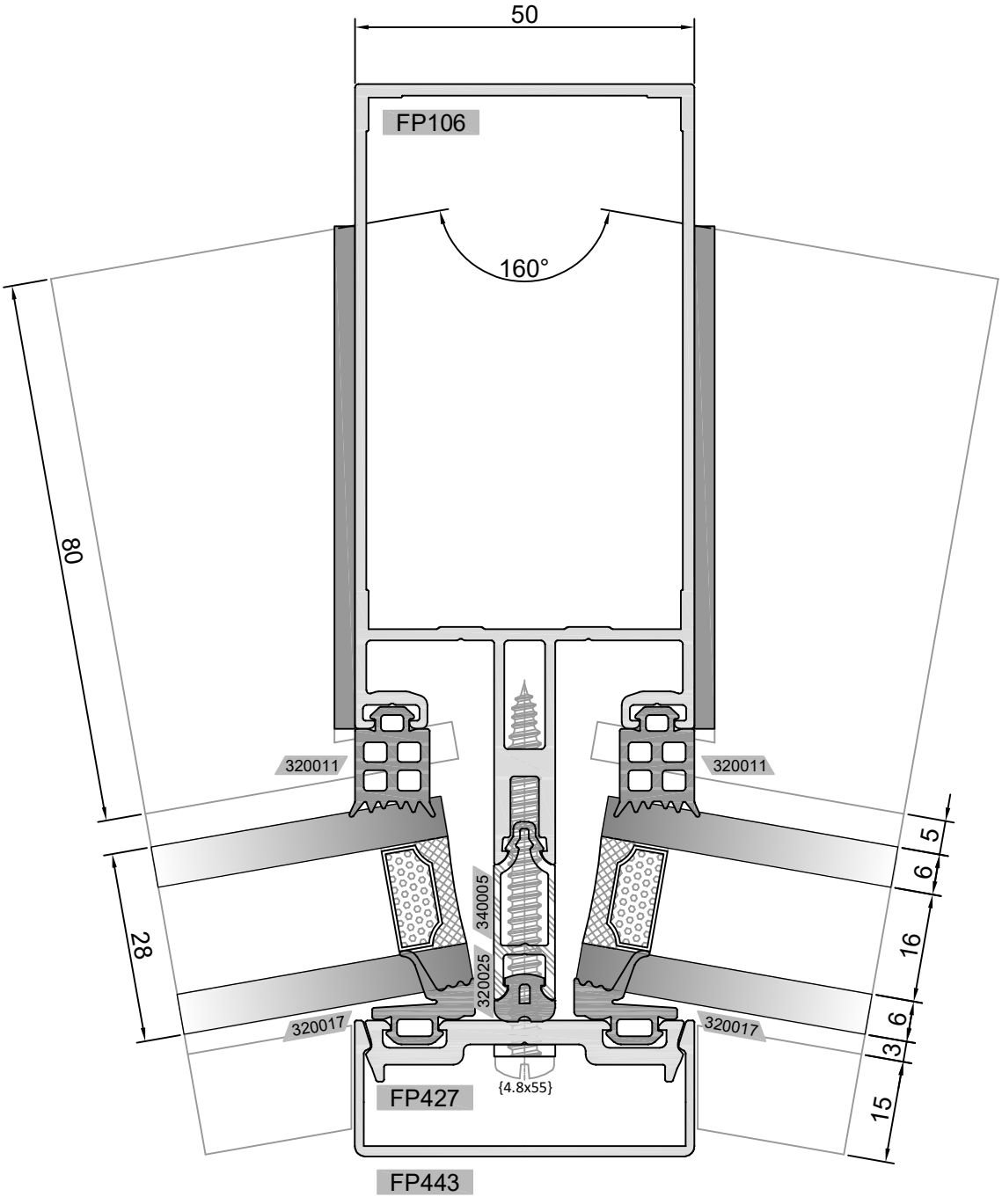


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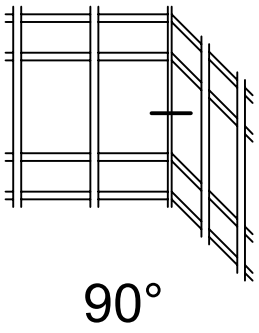
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20° - 10°



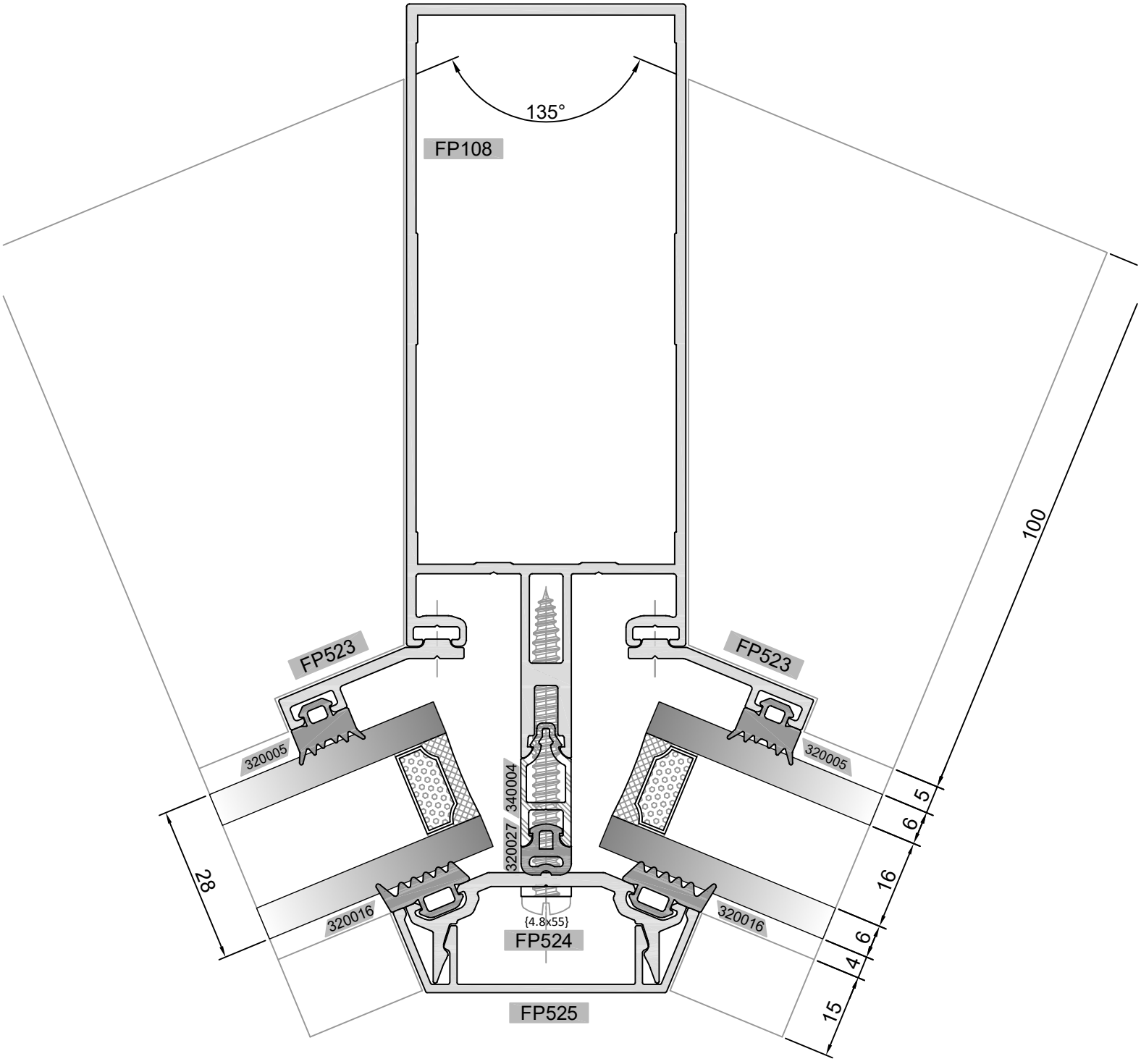
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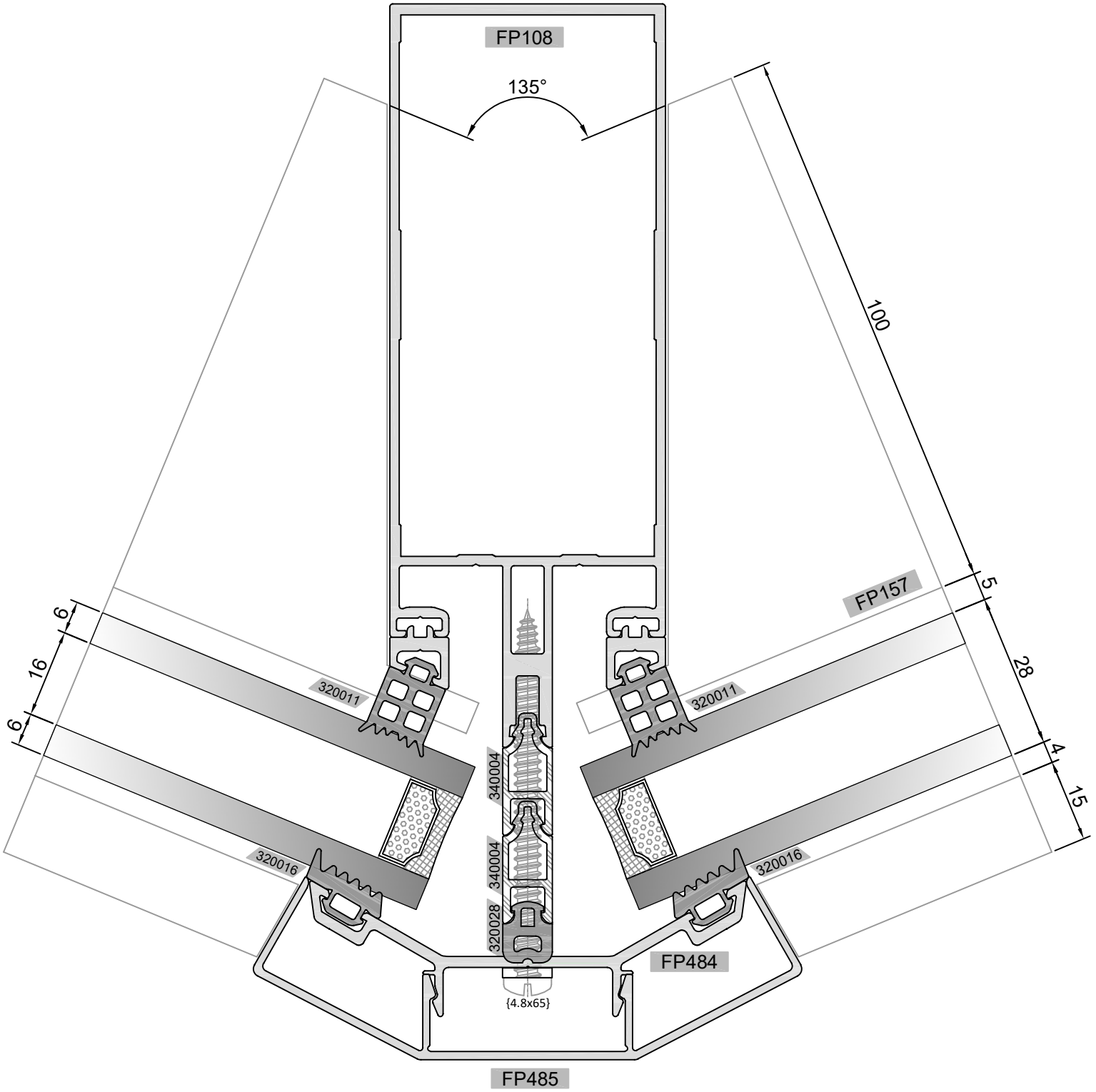
90°

Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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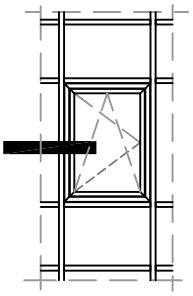


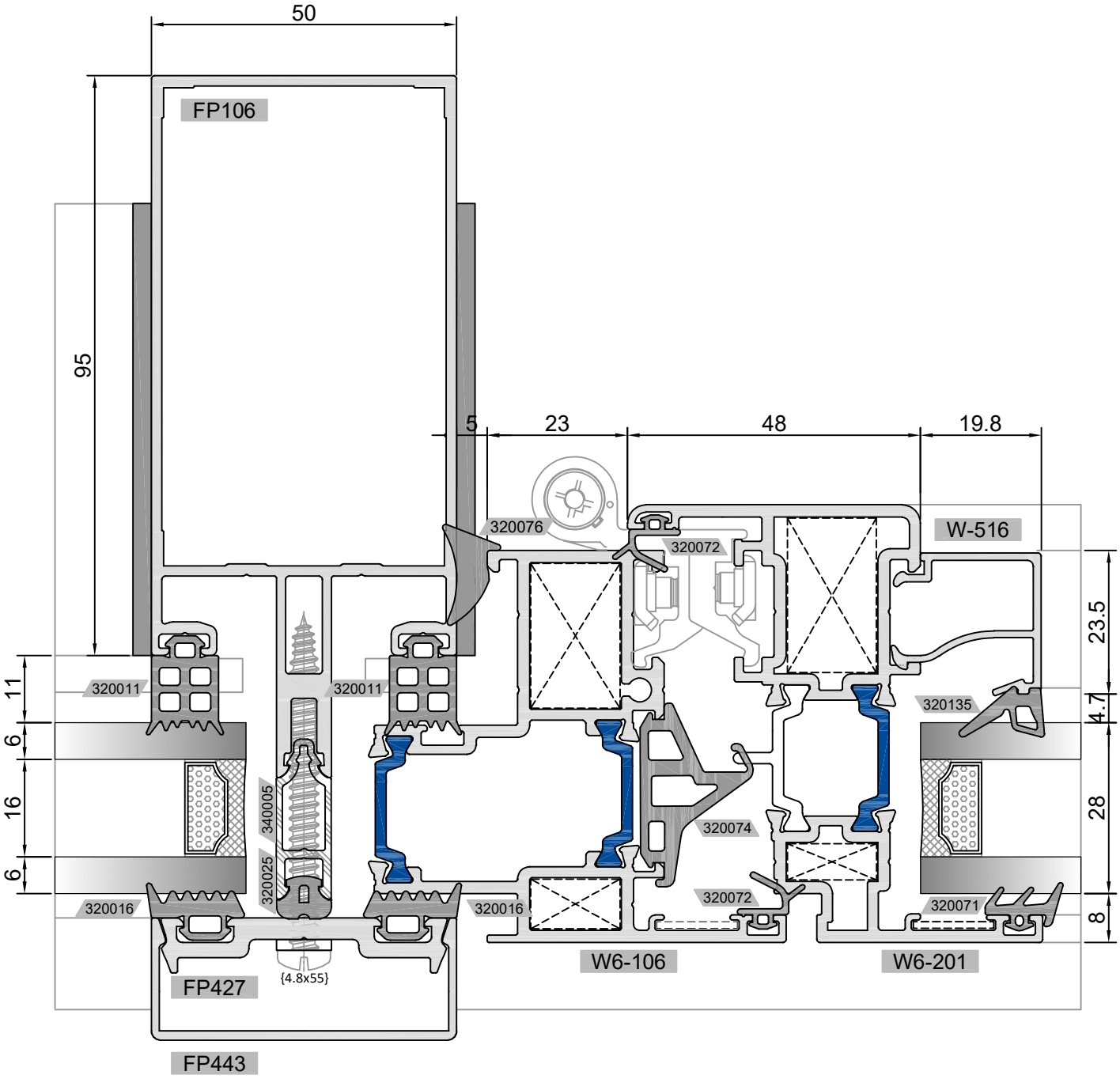
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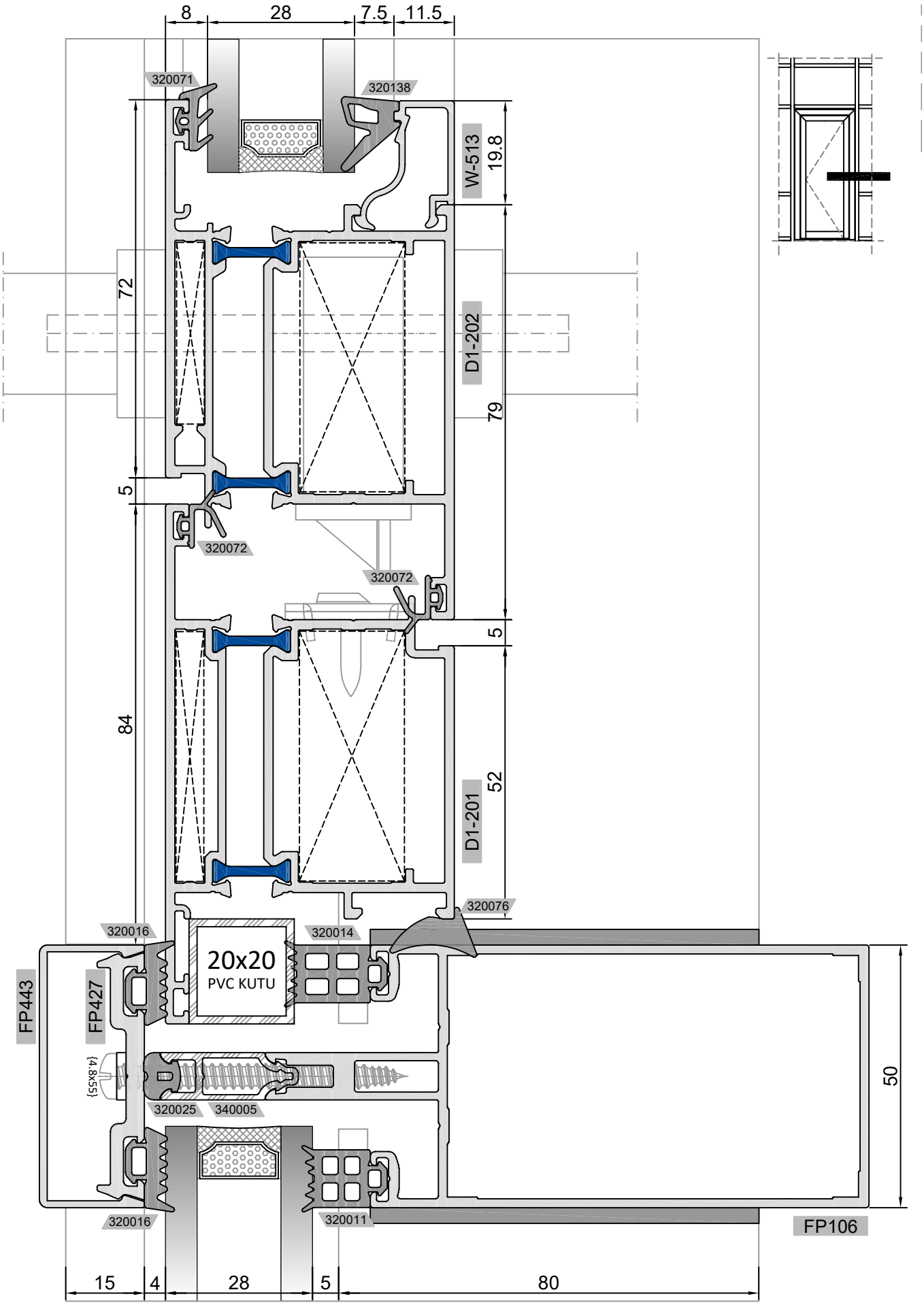
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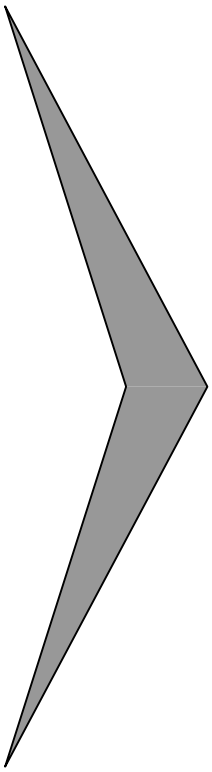


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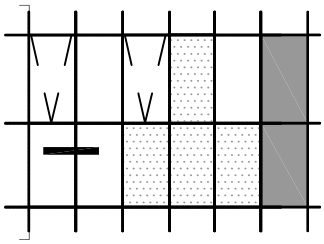
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ENTEGRE CEPHE
INTEGRATED CURTAIN WALL

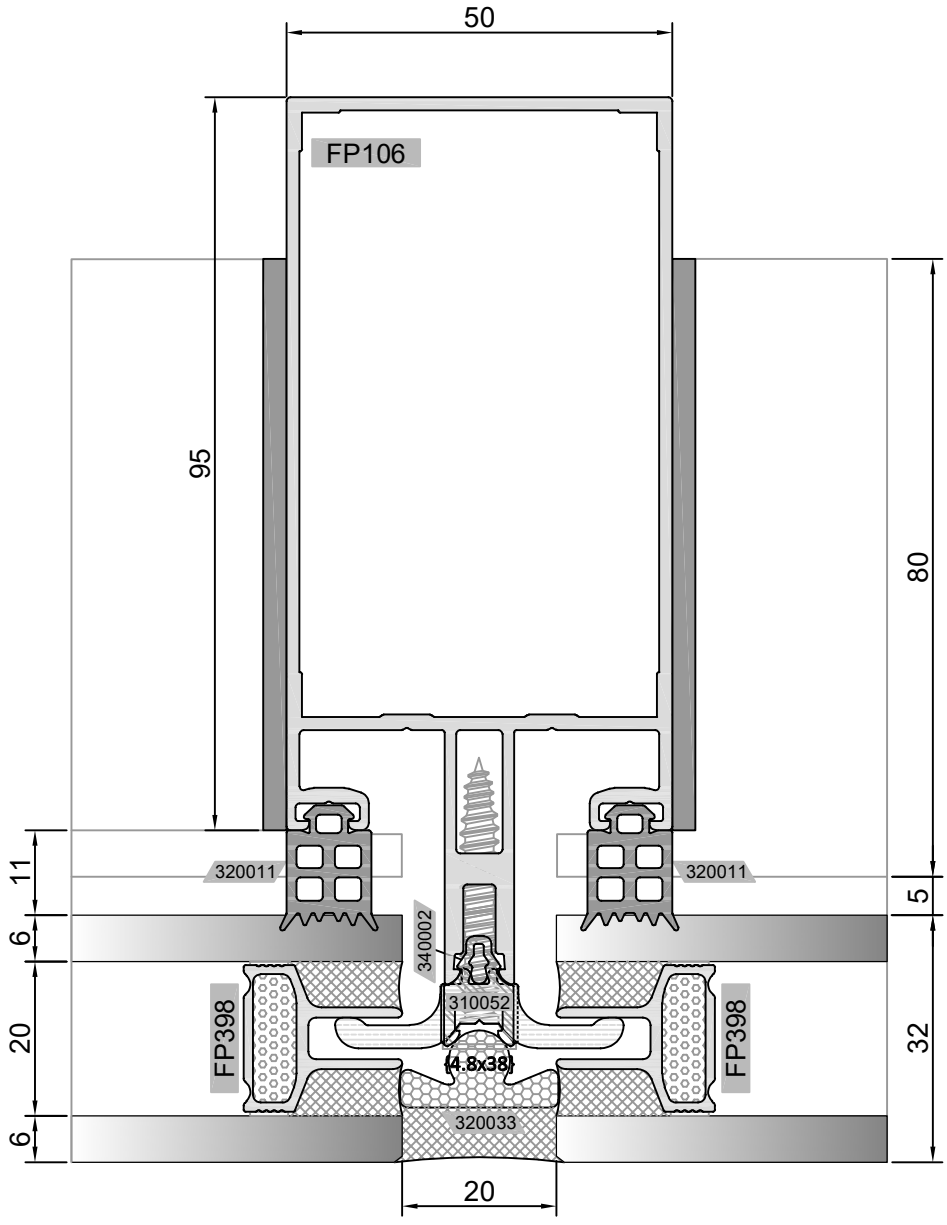


* **20mm STANDART ALÜMİNYUM ISICAM ÇITASI**
  20mm STANDARD ALUMINIUM SPACER

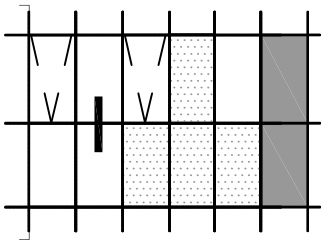
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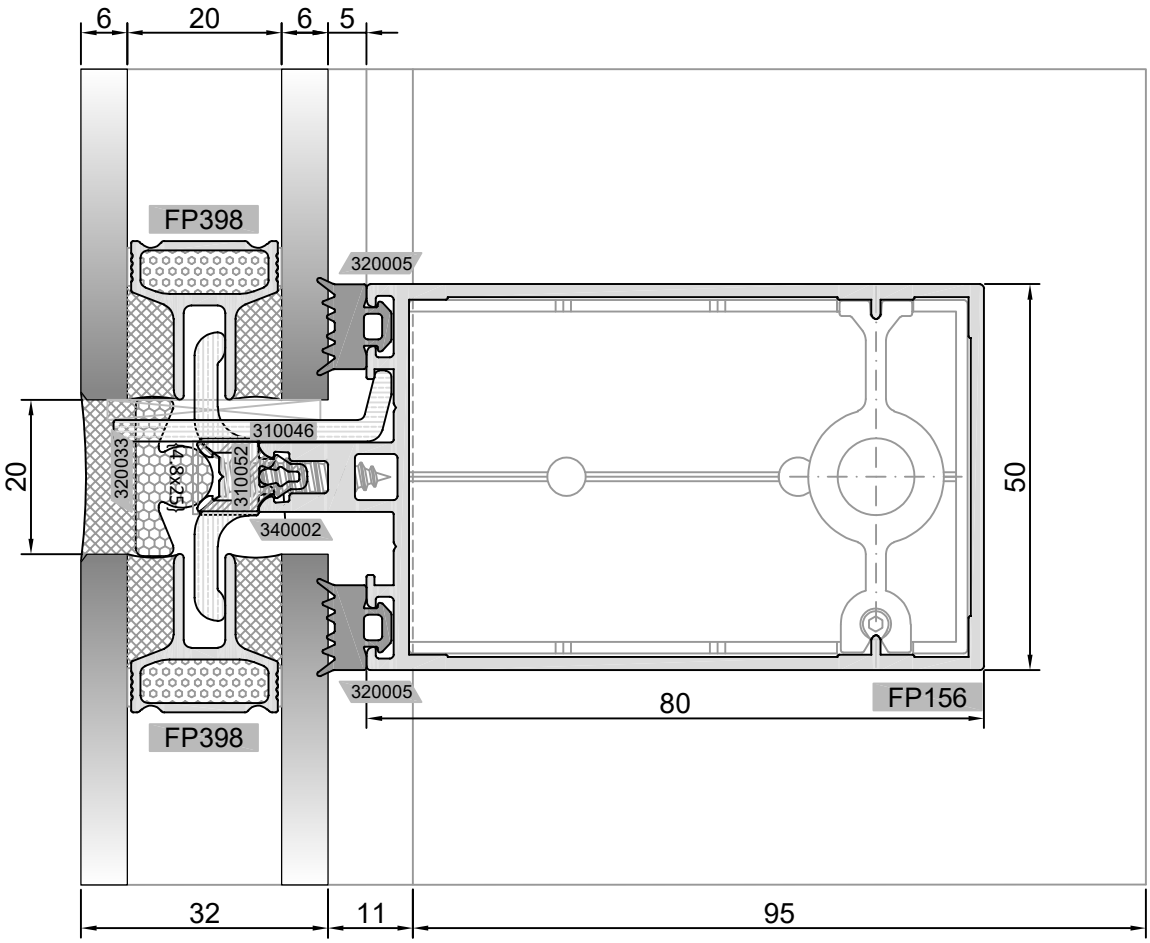
DÜŞEY DETAYI
VERTICAL DETAIL



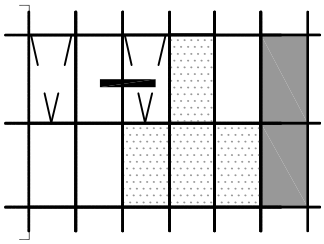
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YATAY DETAYI
HORIZONTAL DETAIL

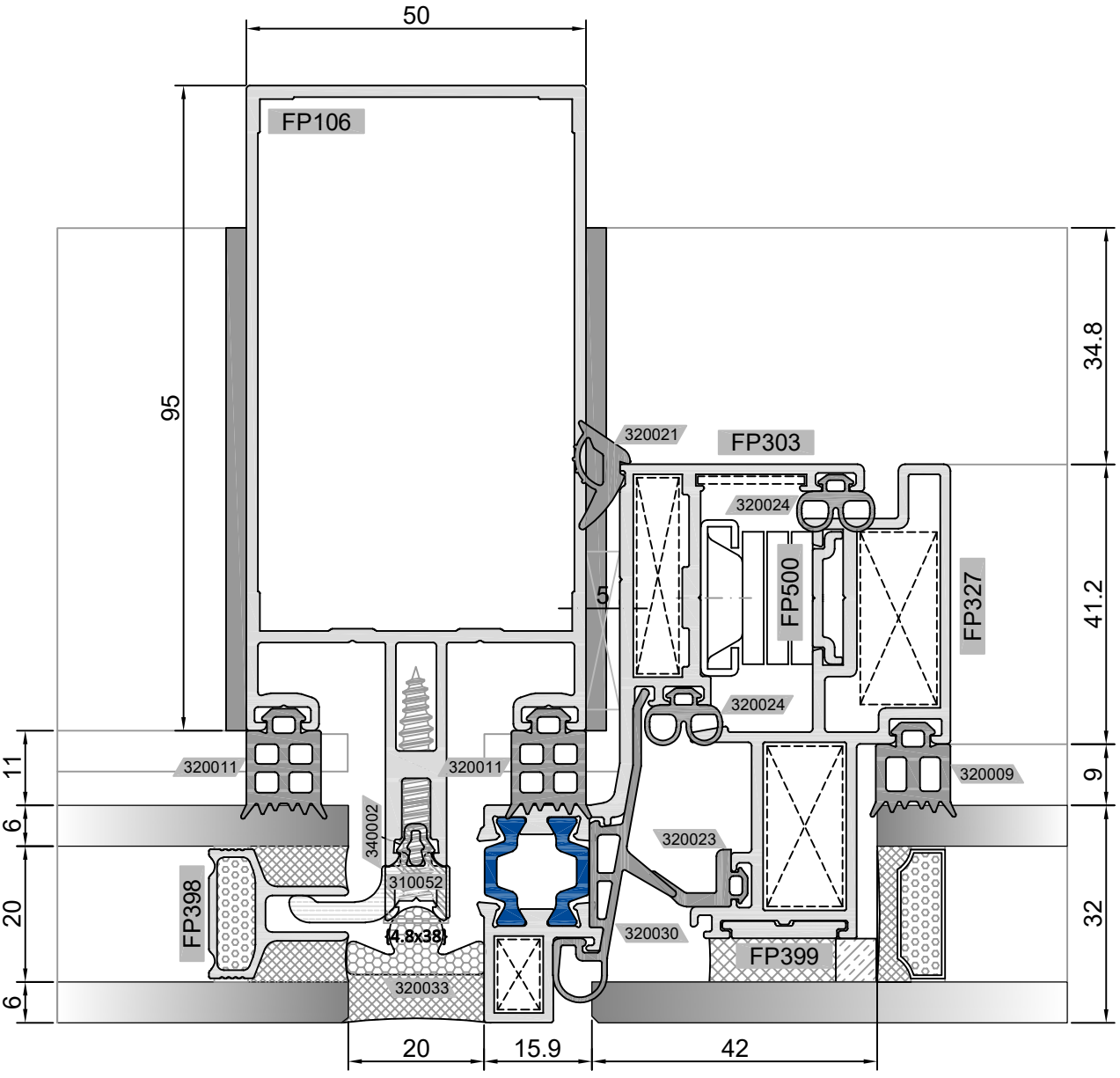


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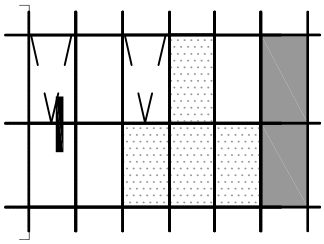


DÜŞEY DETAYI
VERTICAL DETAIL

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

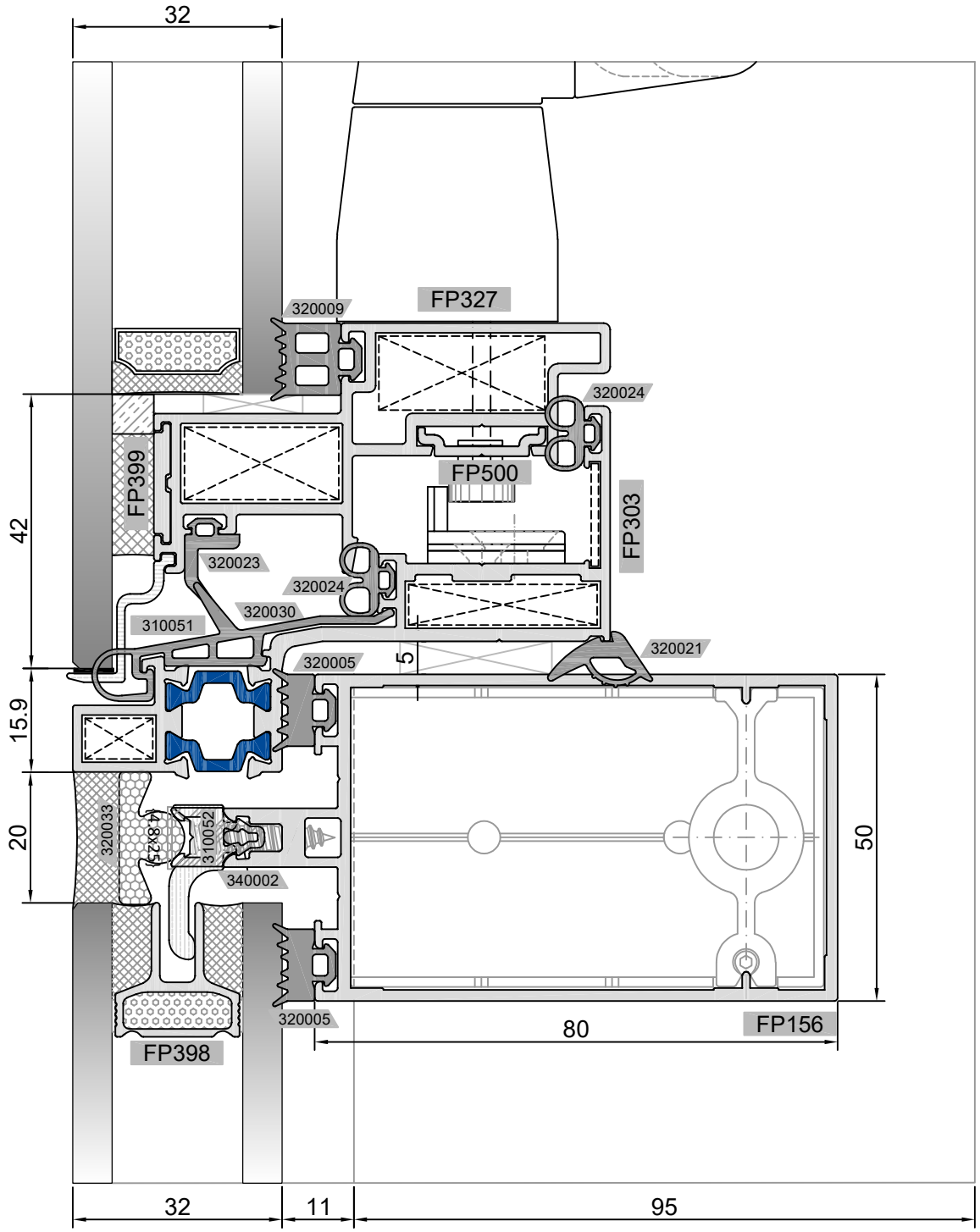


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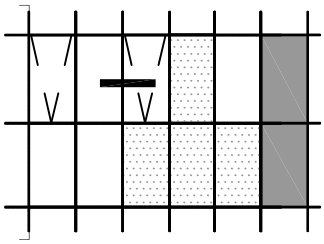


ALTERNATİF 1: YALITIMSIZ KANAT DETAYI
ALTERNATIVE 1 : UNINSULATED VENT DETAIL

YATAY DETAYI
HORIZONTAL DETAIL

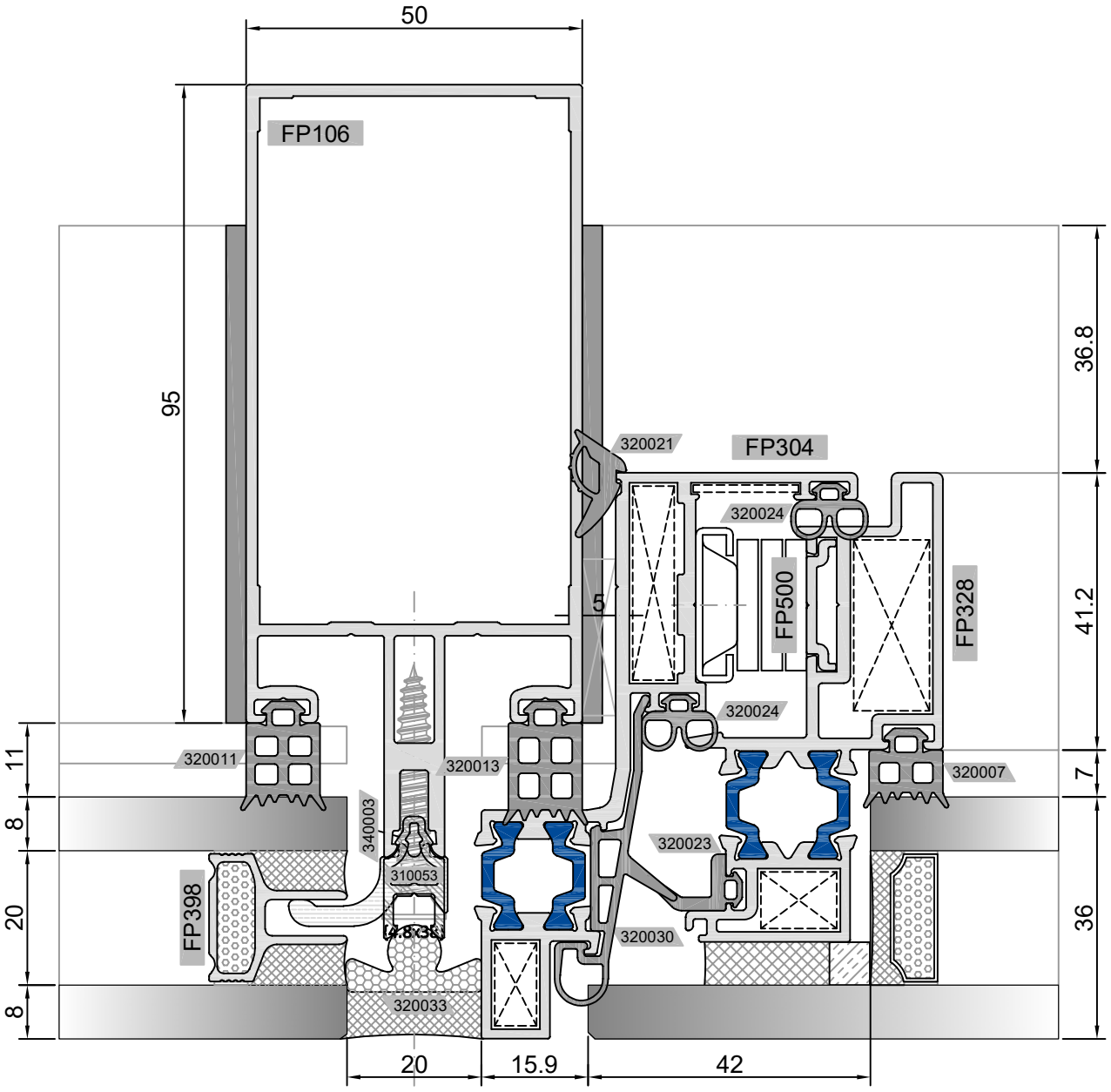


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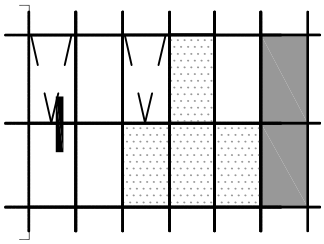


DÜŞEY DETAYI
VERTICAL DETAIL

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

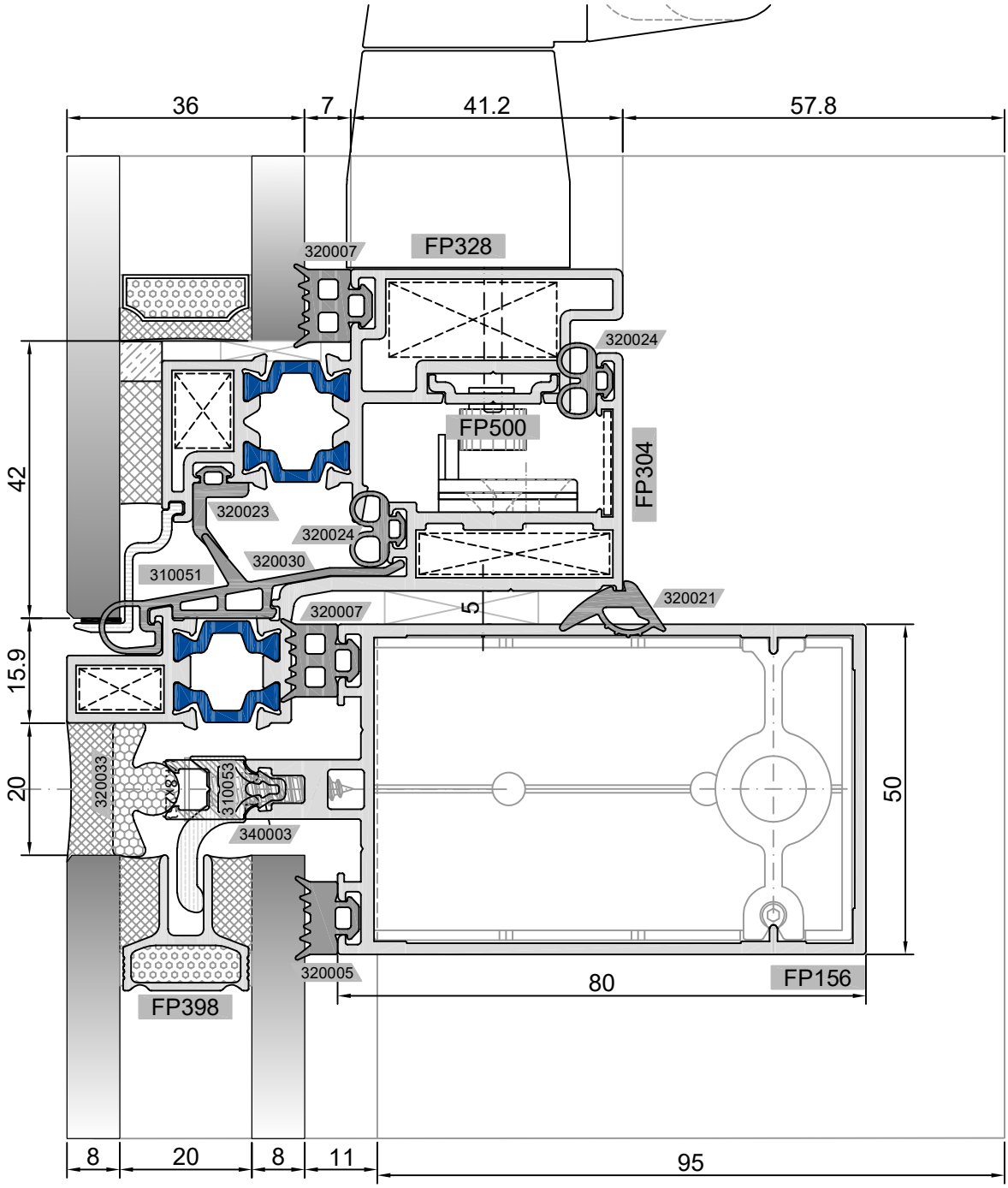


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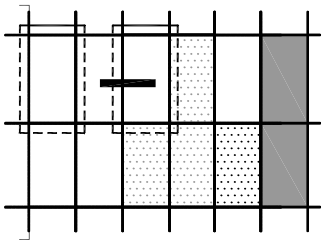


YATAY DETAYI
HORIZONTAL DETAIL

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

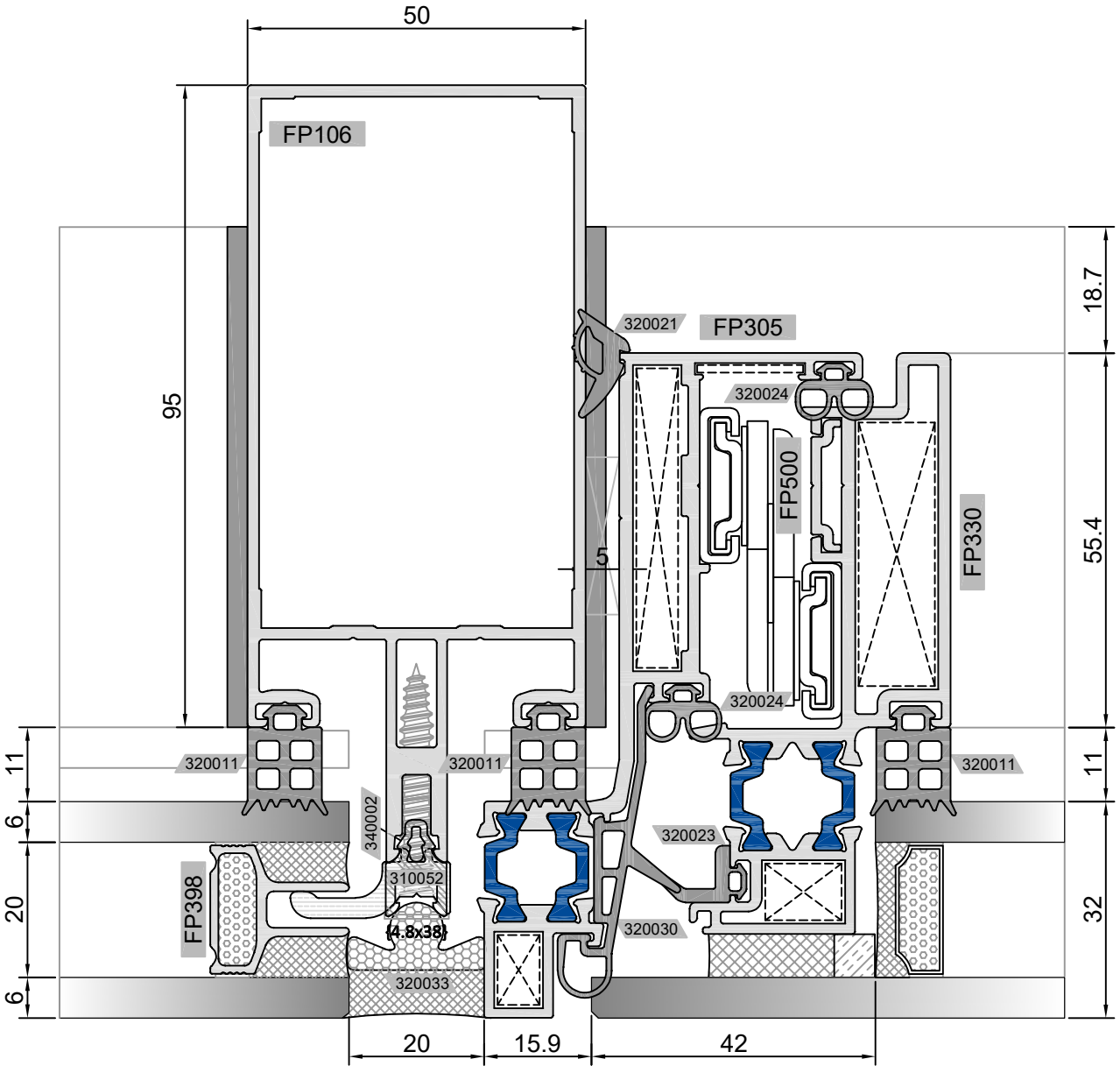


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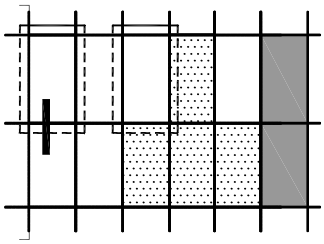


ALTERNATİF 1: YALITIMLI PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 1 : PARALEL OPENING INSULATED VENT DETAIL

DÜŞEY DETAYI
VERTICAL DETAIL

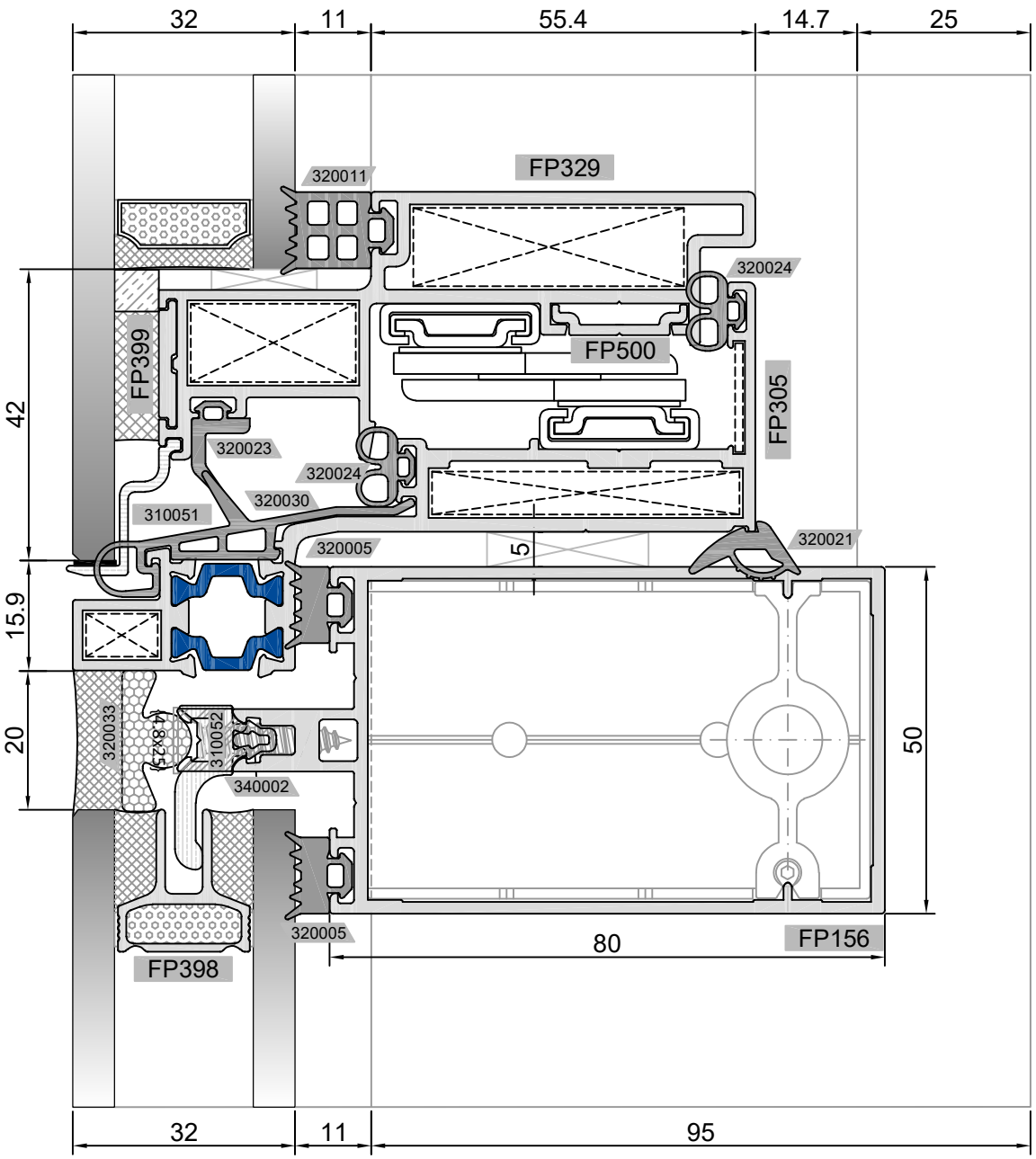


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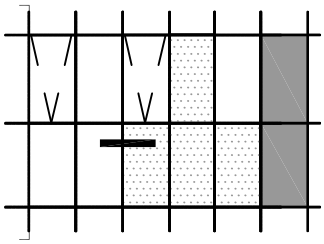


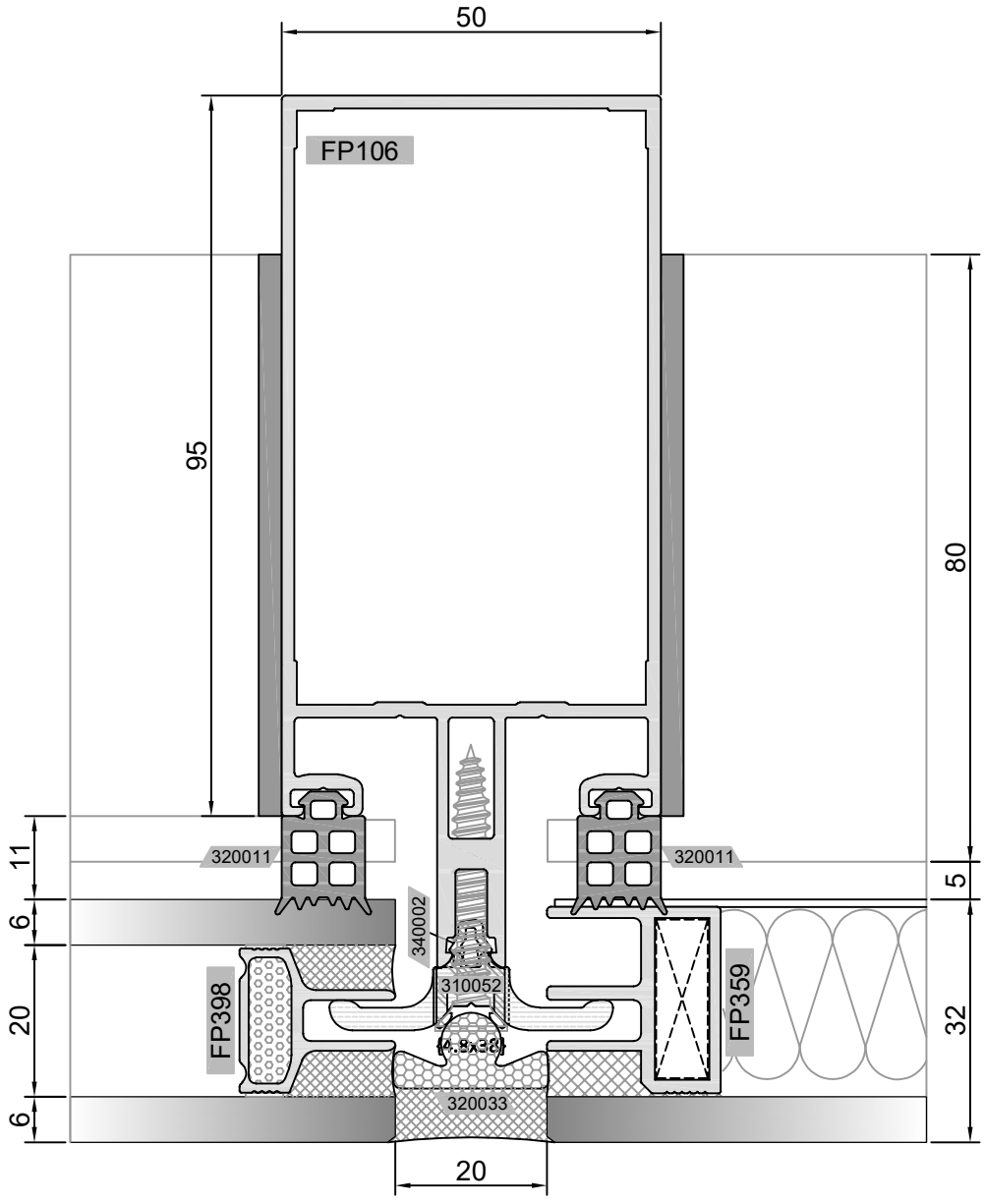
ALTERNATİF 2: YALITIMSIZ PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 2 : PARALEL OPENING UNINSULATED VENT DETAIL

YATAY DETAYI
HORIZONTAL DETAIL



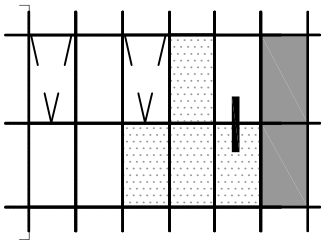
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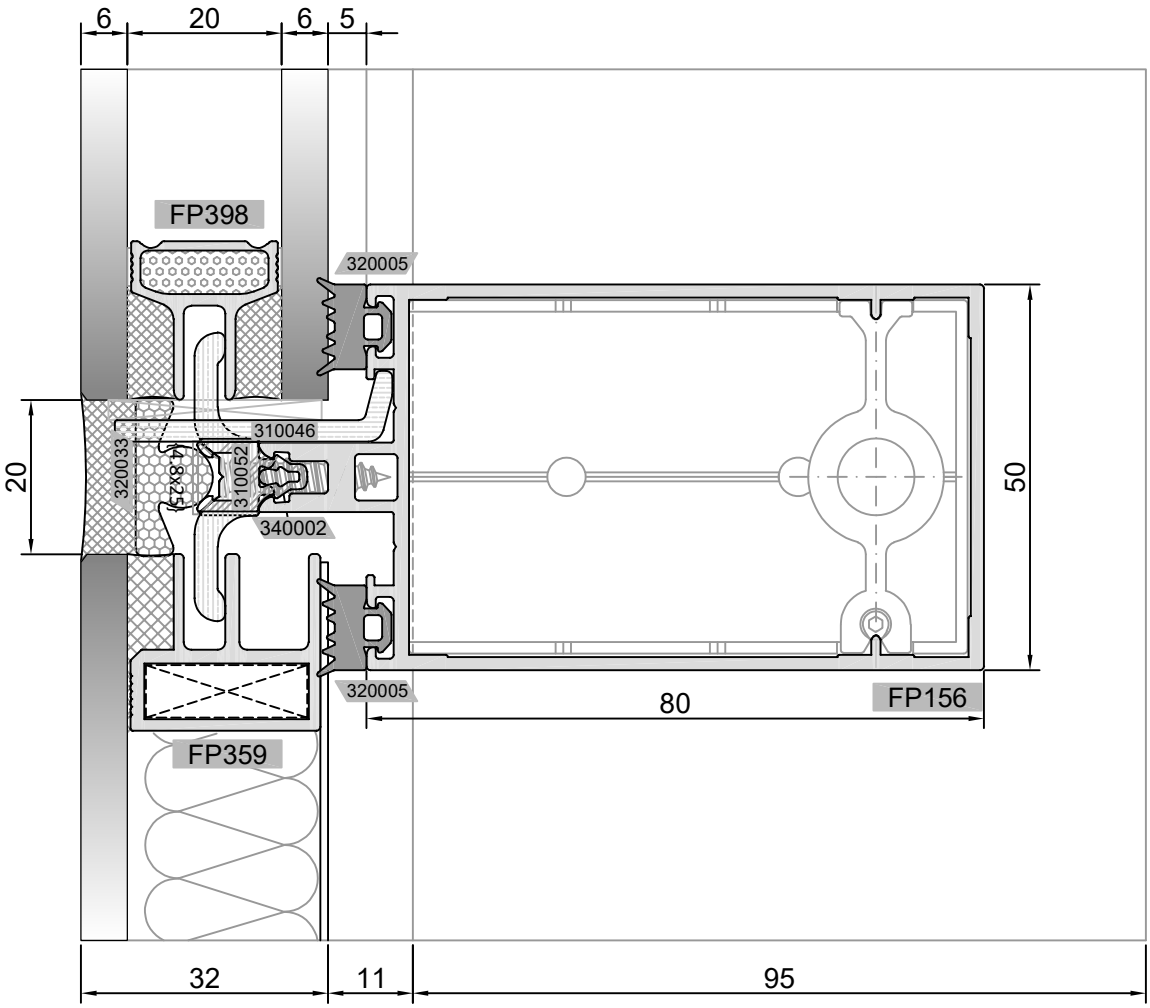




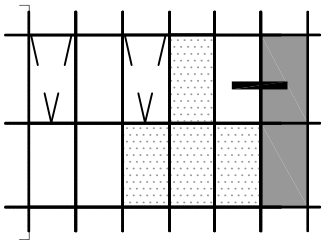
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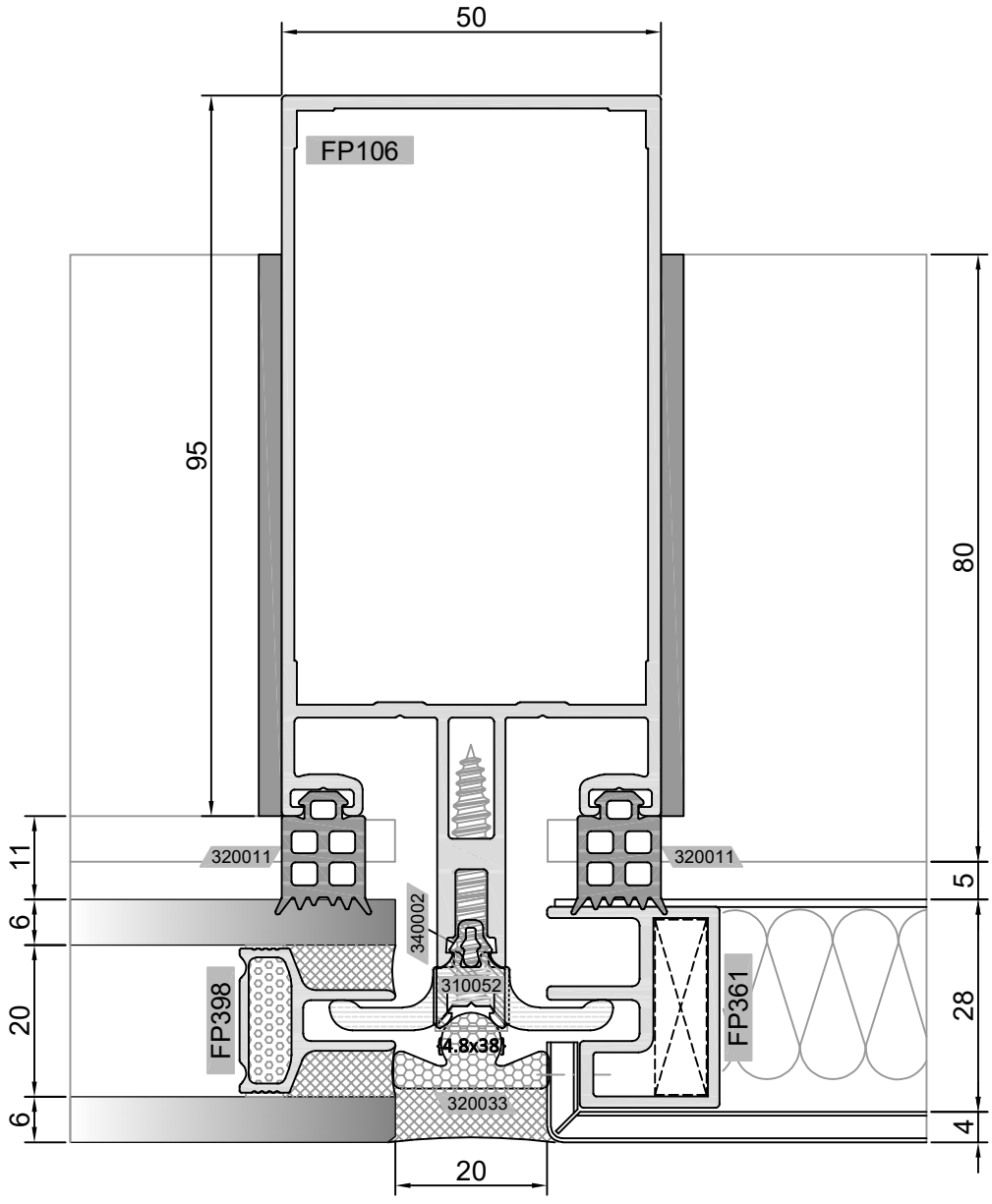
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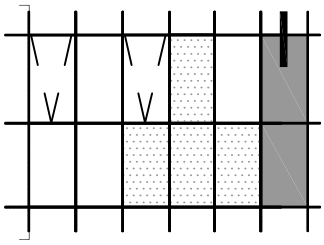
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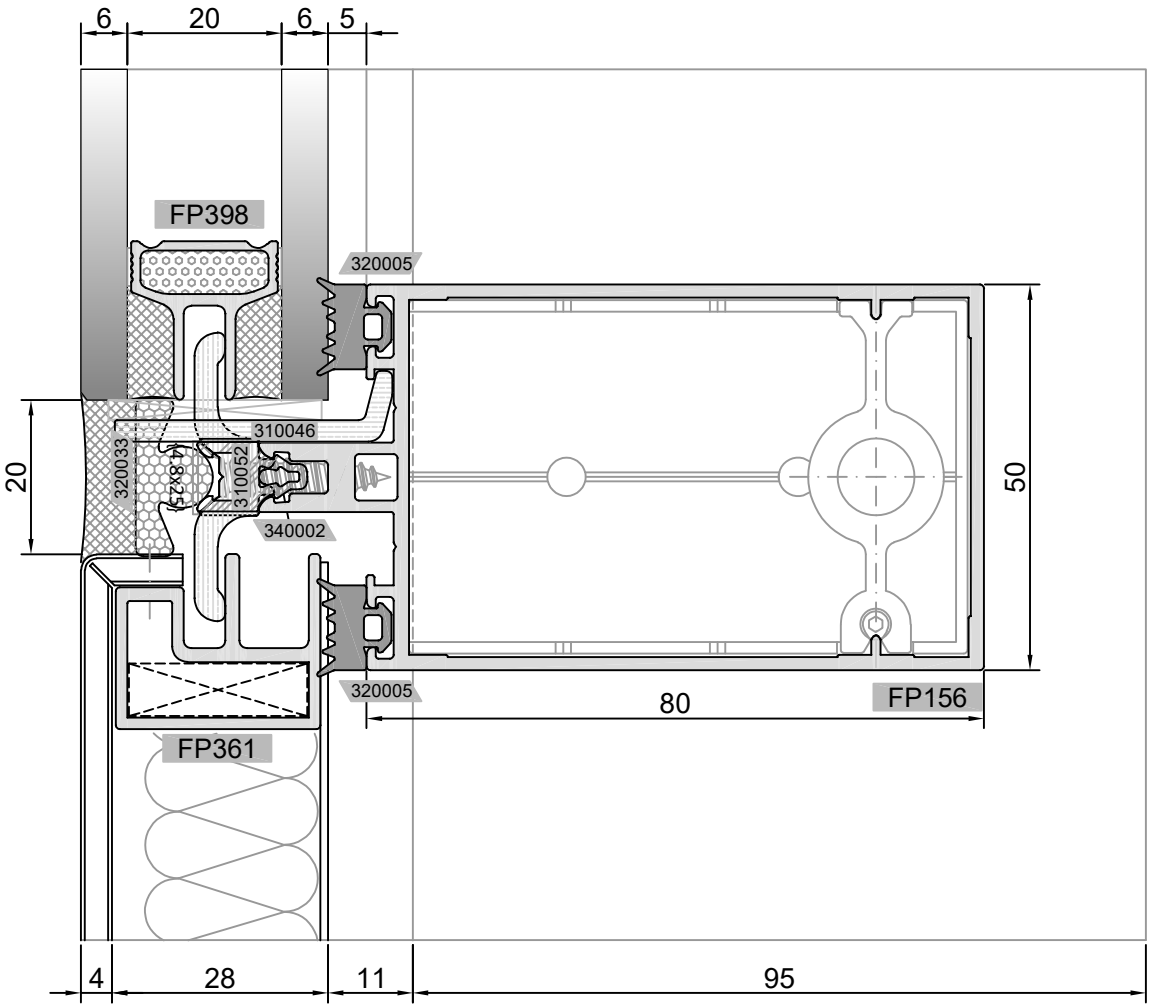




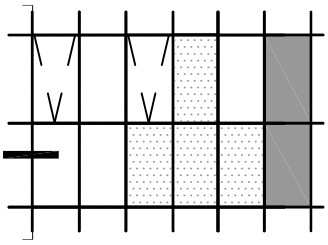
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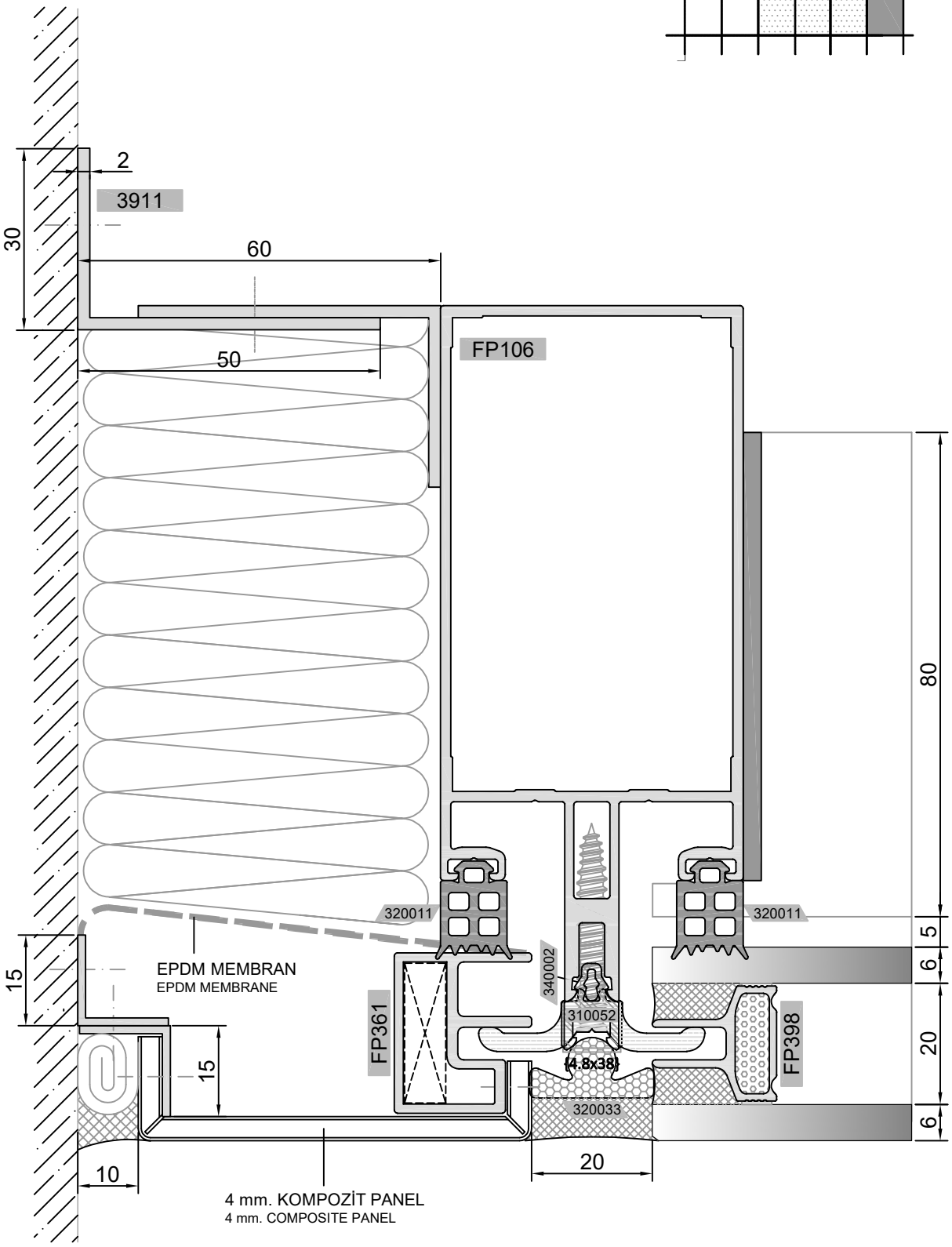
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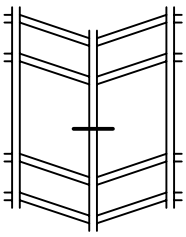
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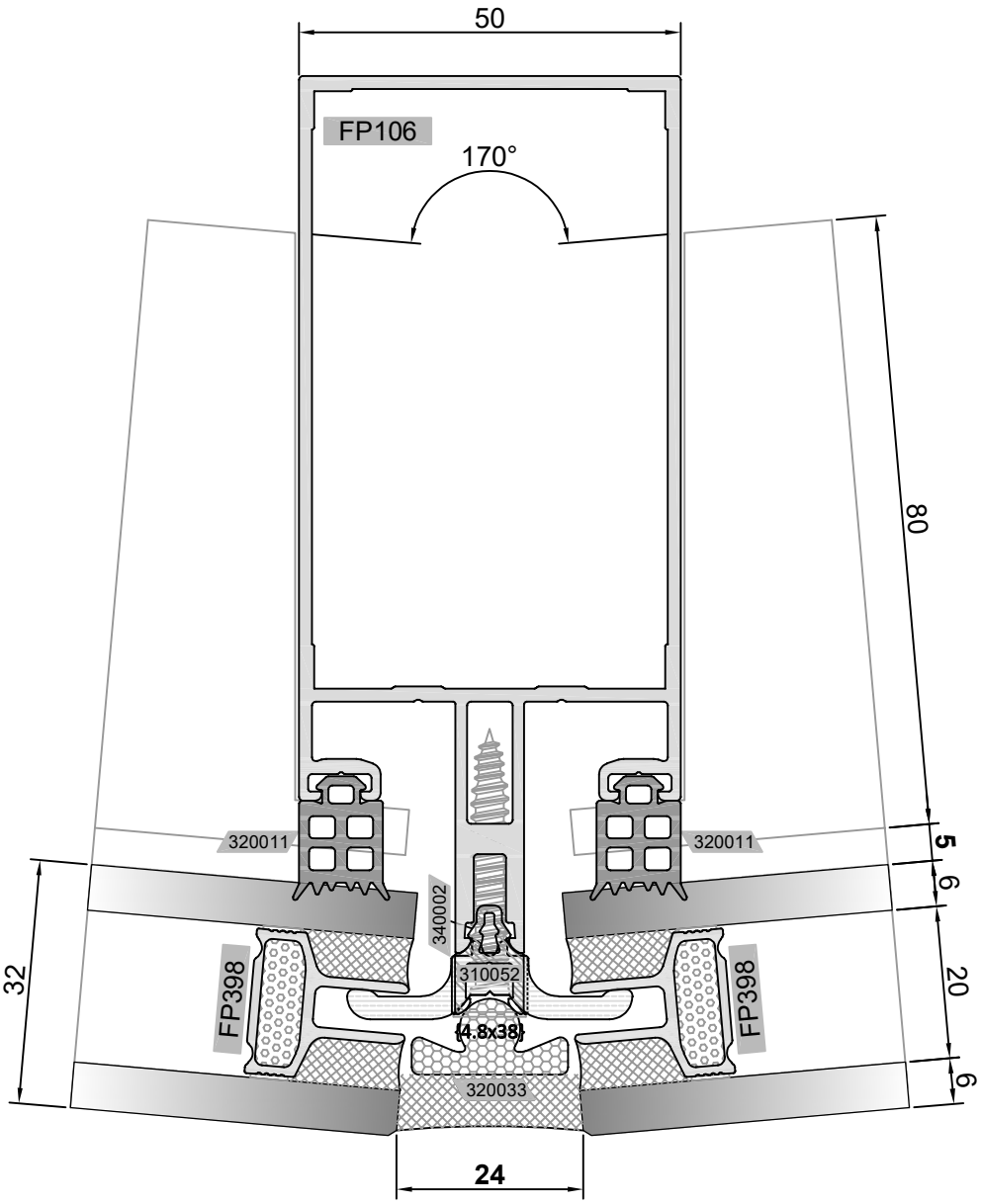


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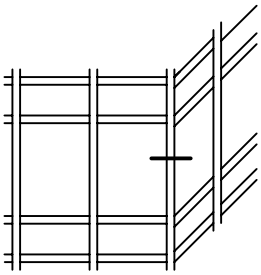
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0° - 10°

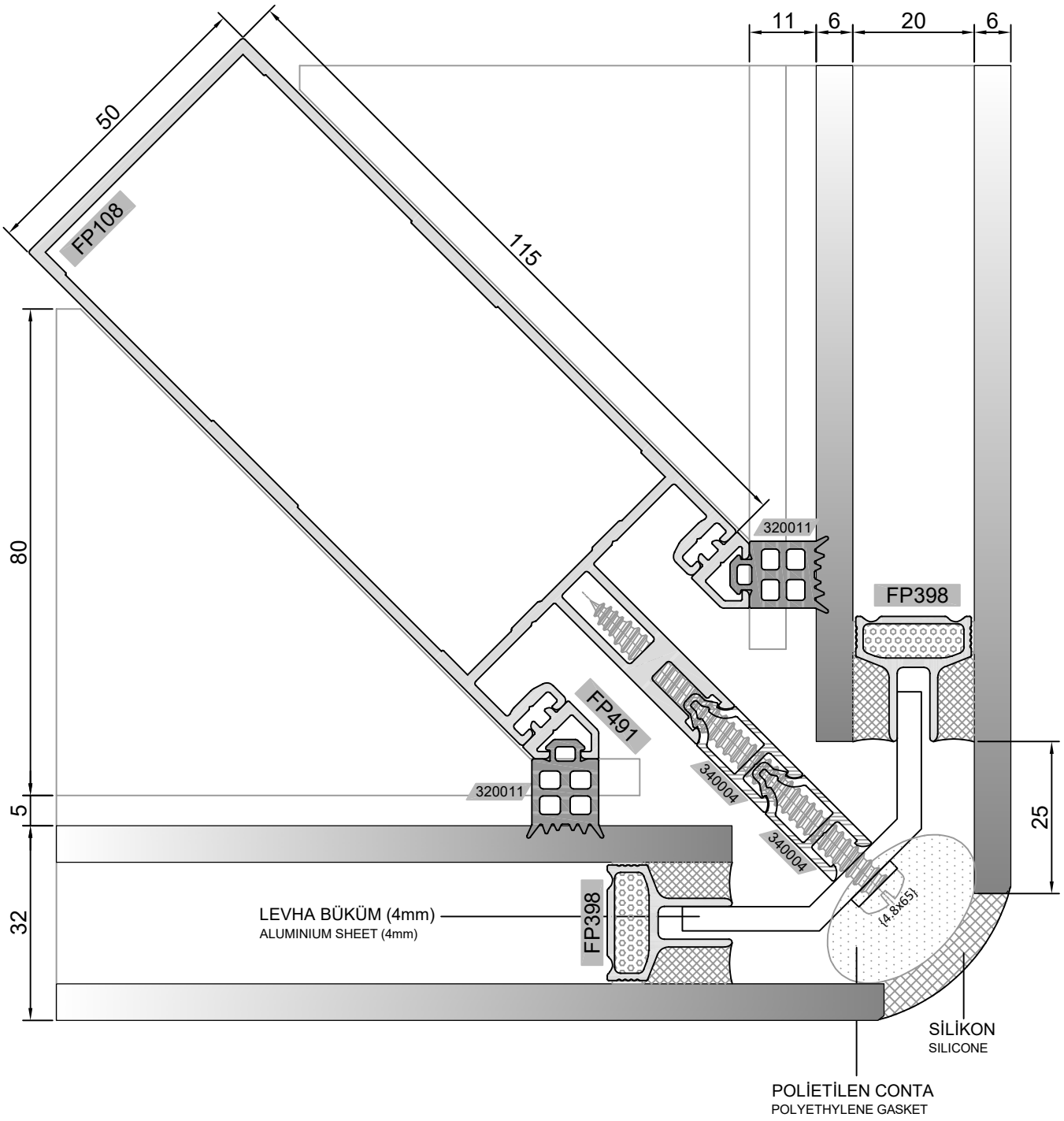


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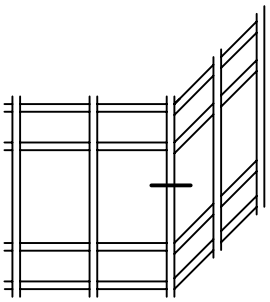


ALTERNATİF 1: TEK DİKMELİ KÖŞE DETAYI
ALTERNATIVE 1 : CORNER DETAIL WITH SINGLE MULLION

90°

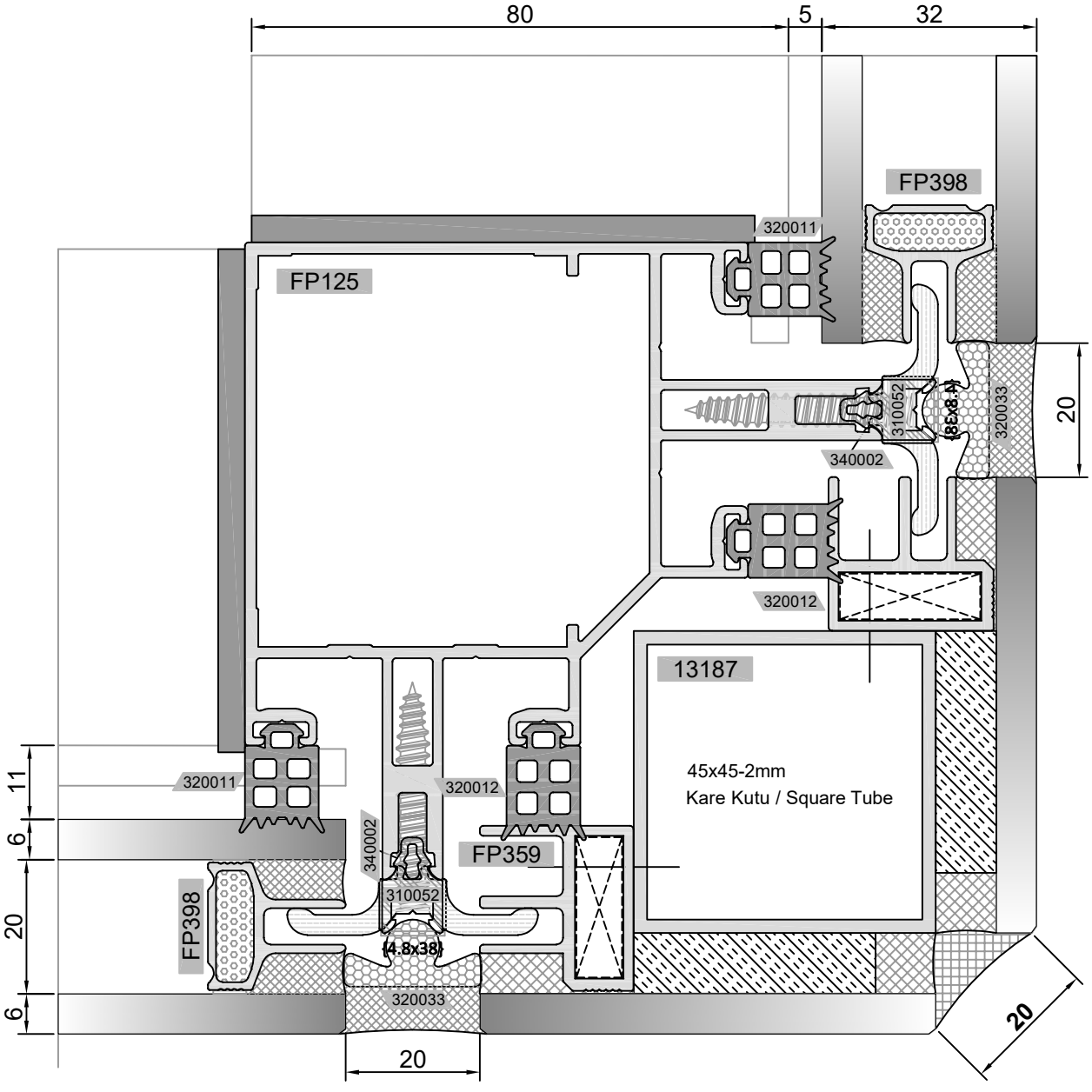


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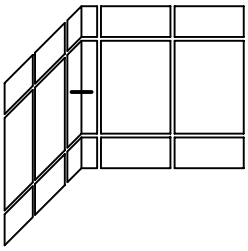


90°

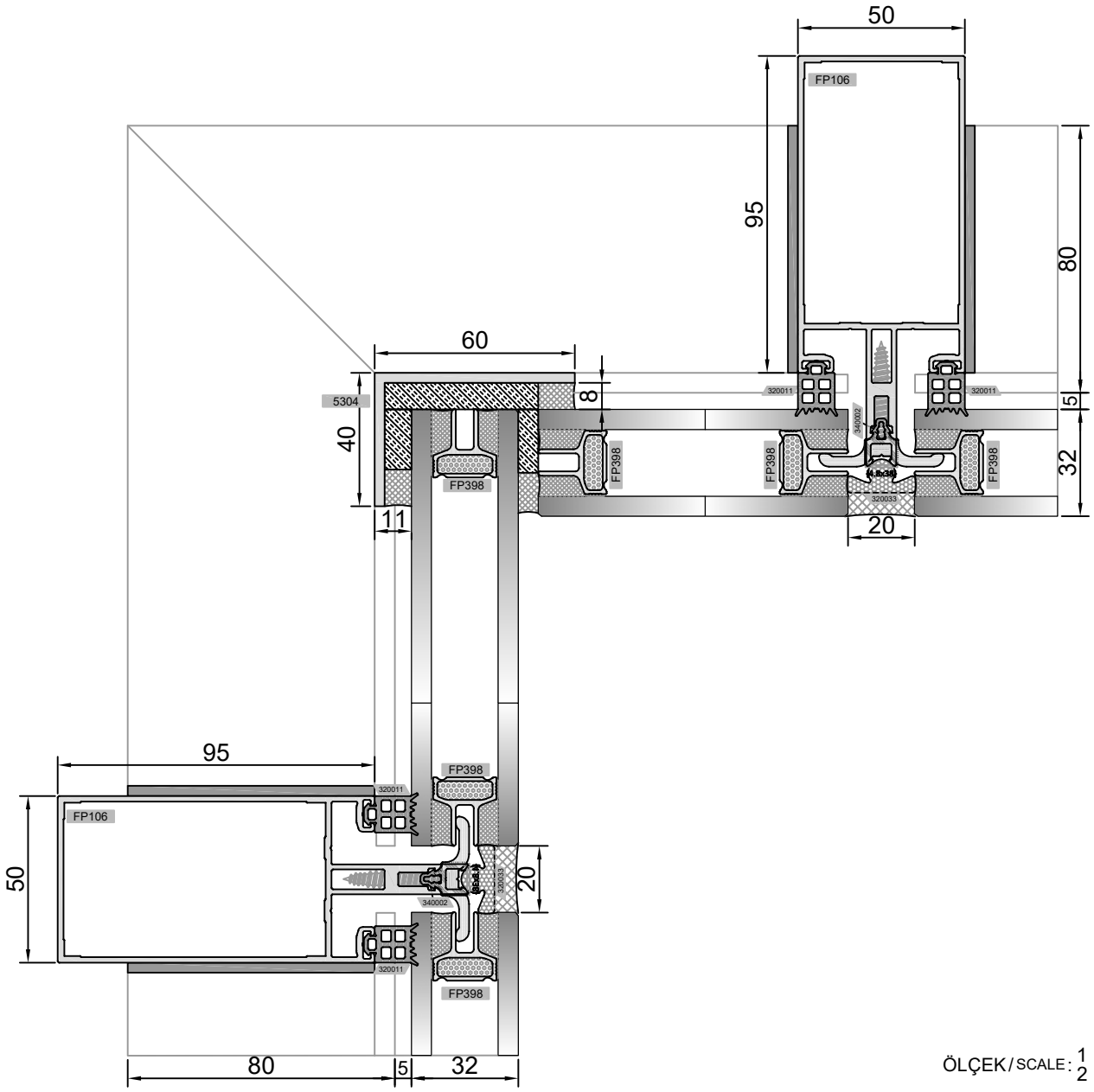
ALTERNATİF 2: ÇİFT DİKMELİ KÖŞE DETAYI
ALTERNATIVE 2 : CORNER DETAIL WITH DOUBLE MULLION



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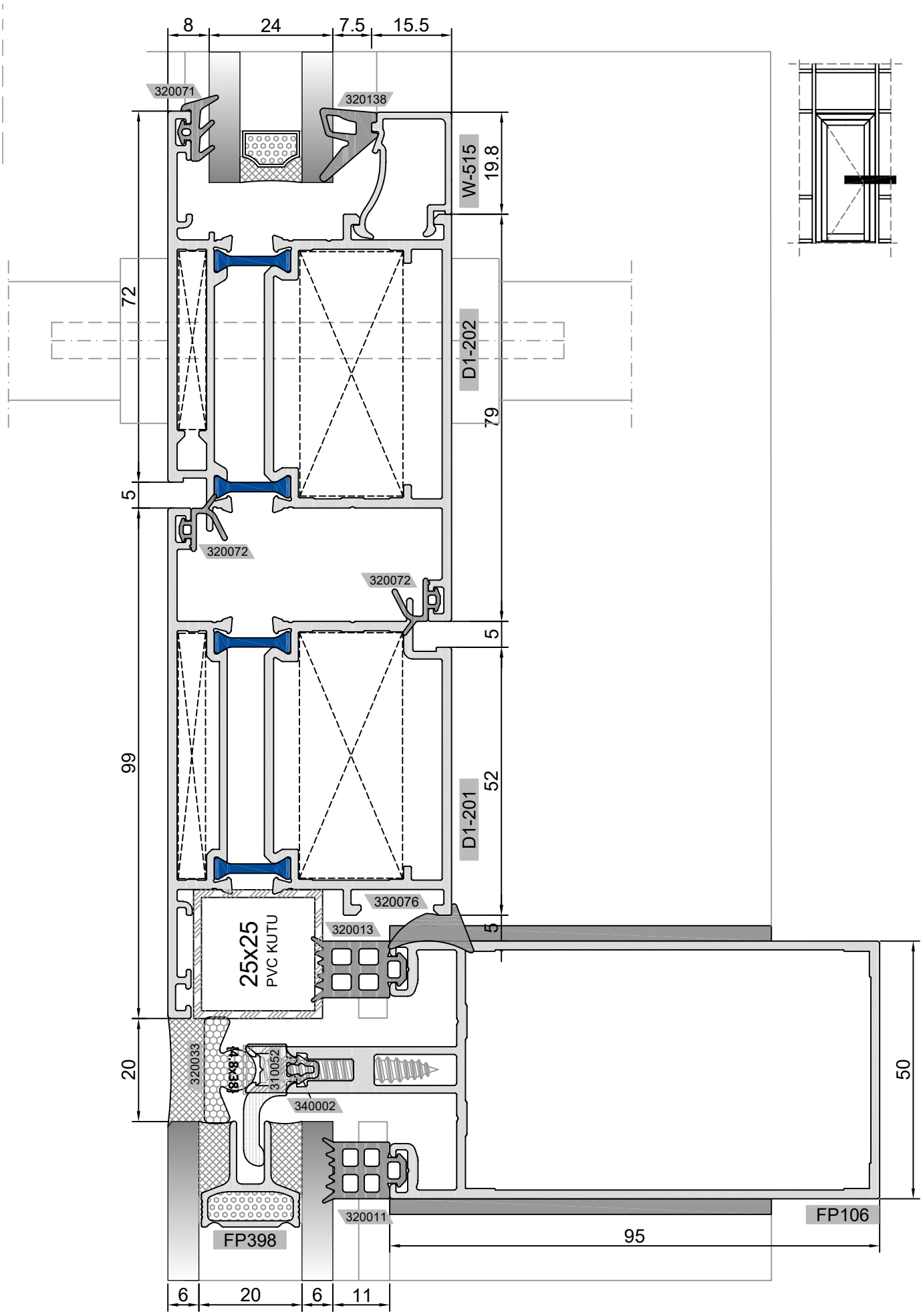
90° İÇ AÇILI CAM CEPHE DÜŞEY KESİT DETAYI
FOUR SIDE WITH 90° INTERNAL ANGLE VERTICAL DETAIL



ÖLÇEK / SCALE : 1/2

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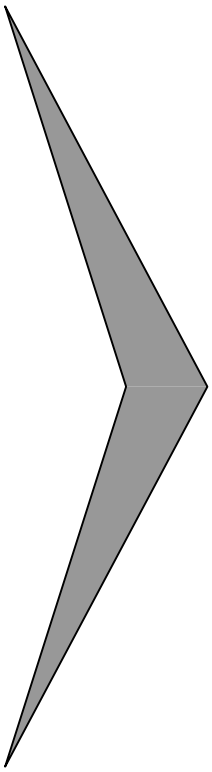
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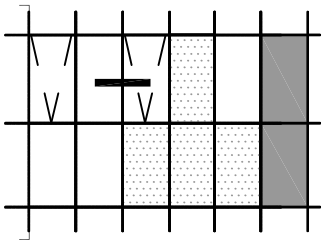
YARI-KAPAKLI CEPHE

SEMI-CAPPED CURTAIN WALL

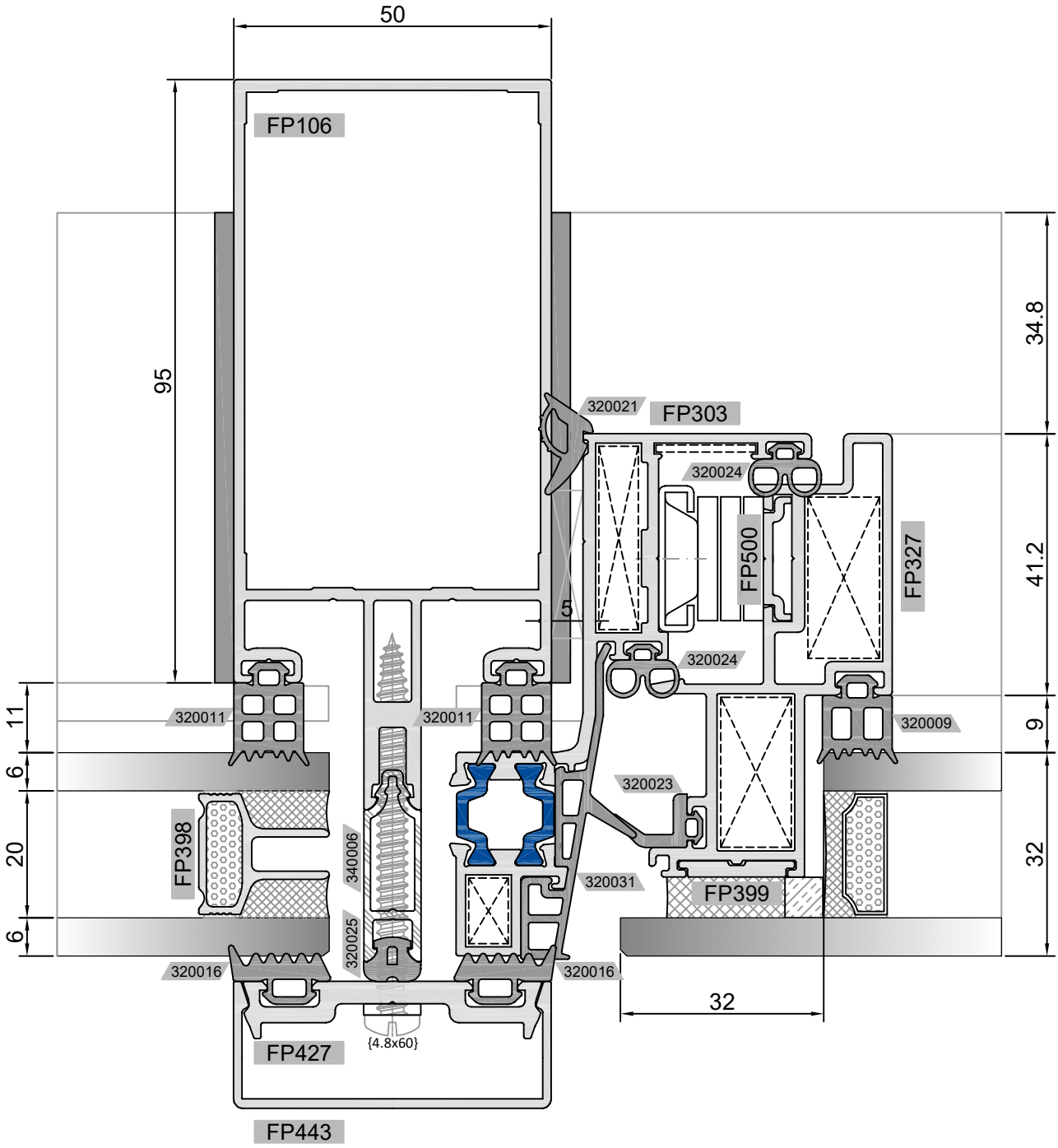


* **20mm STANDART ALÜMİNYUM ISICAM ÇITASI**
  20mm STANDARD ALUMINIUM SPACER

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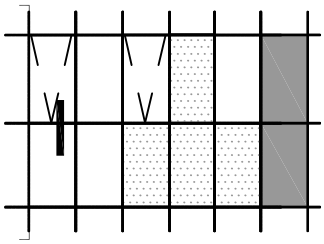


DÜŞEY DETAYI
VERTICAL DETAIL

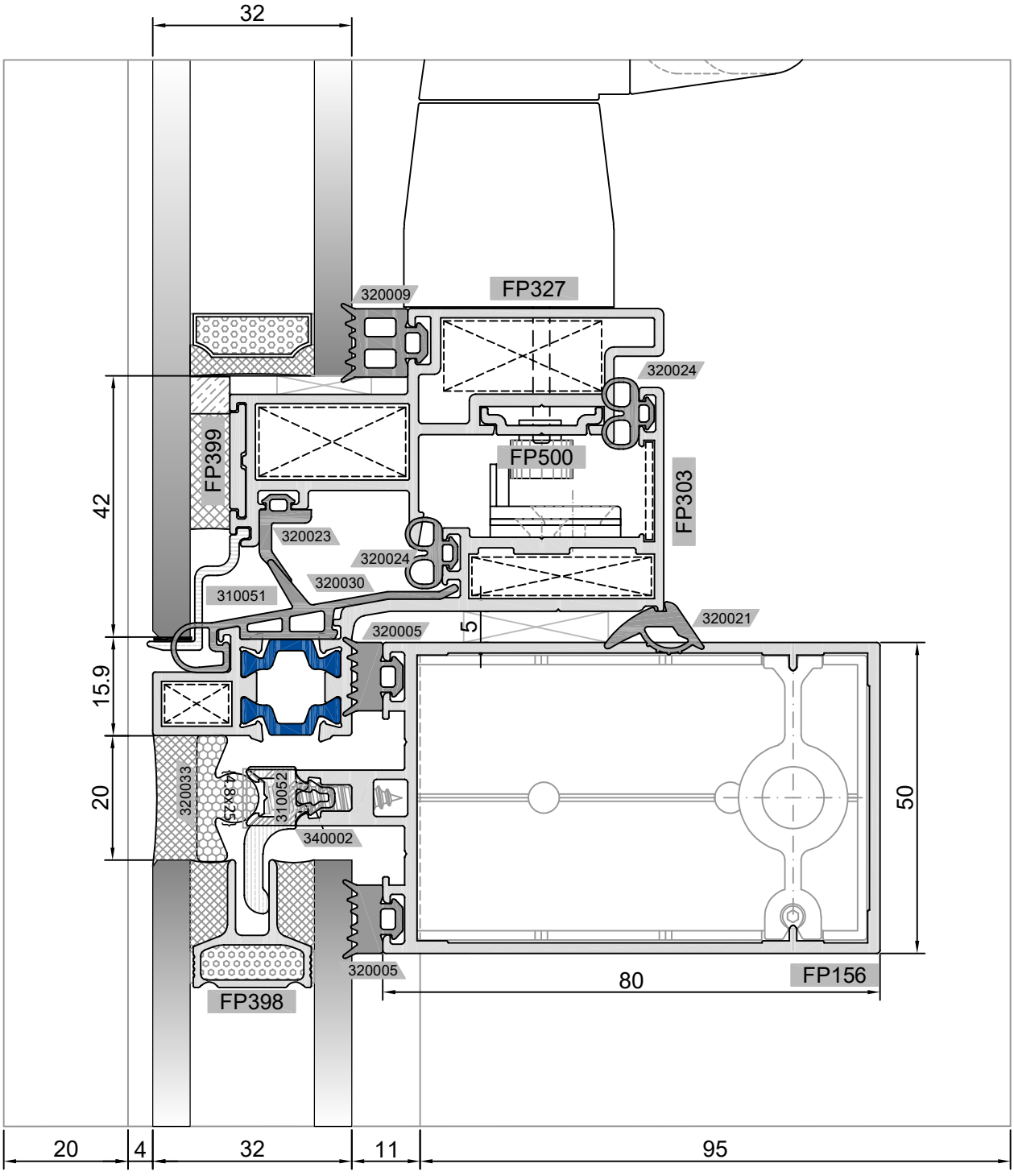


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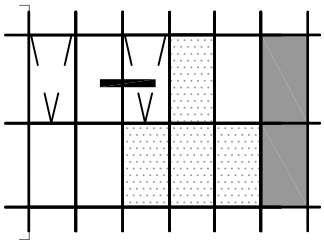
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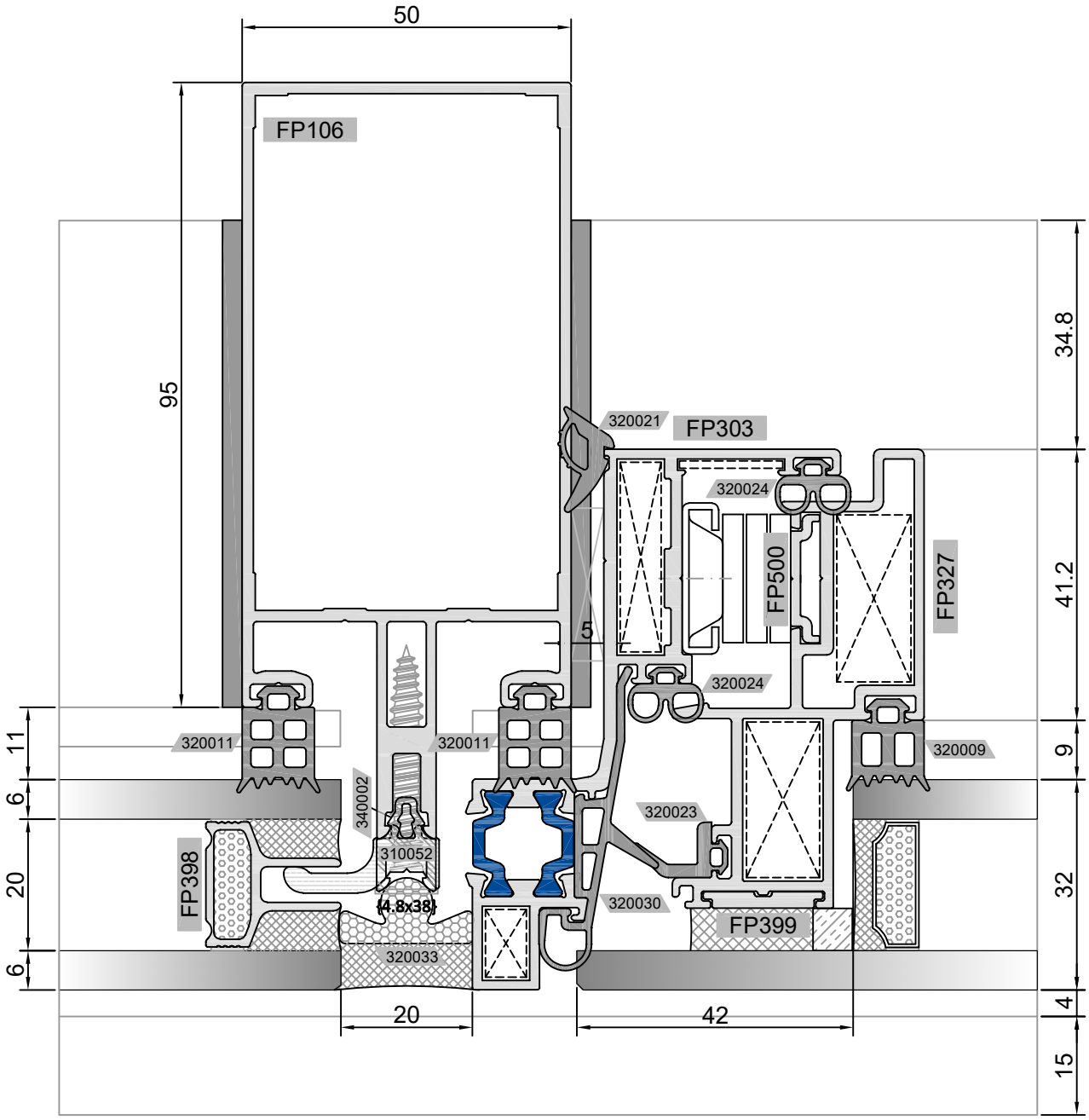
YATAY DETAYI
HORIZONTAL DETAIL



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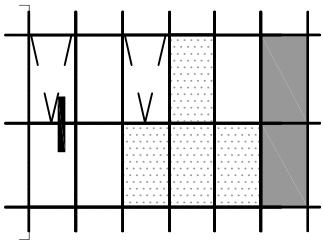


DÜŞEY DETAYI
VERTICAL DETAIL

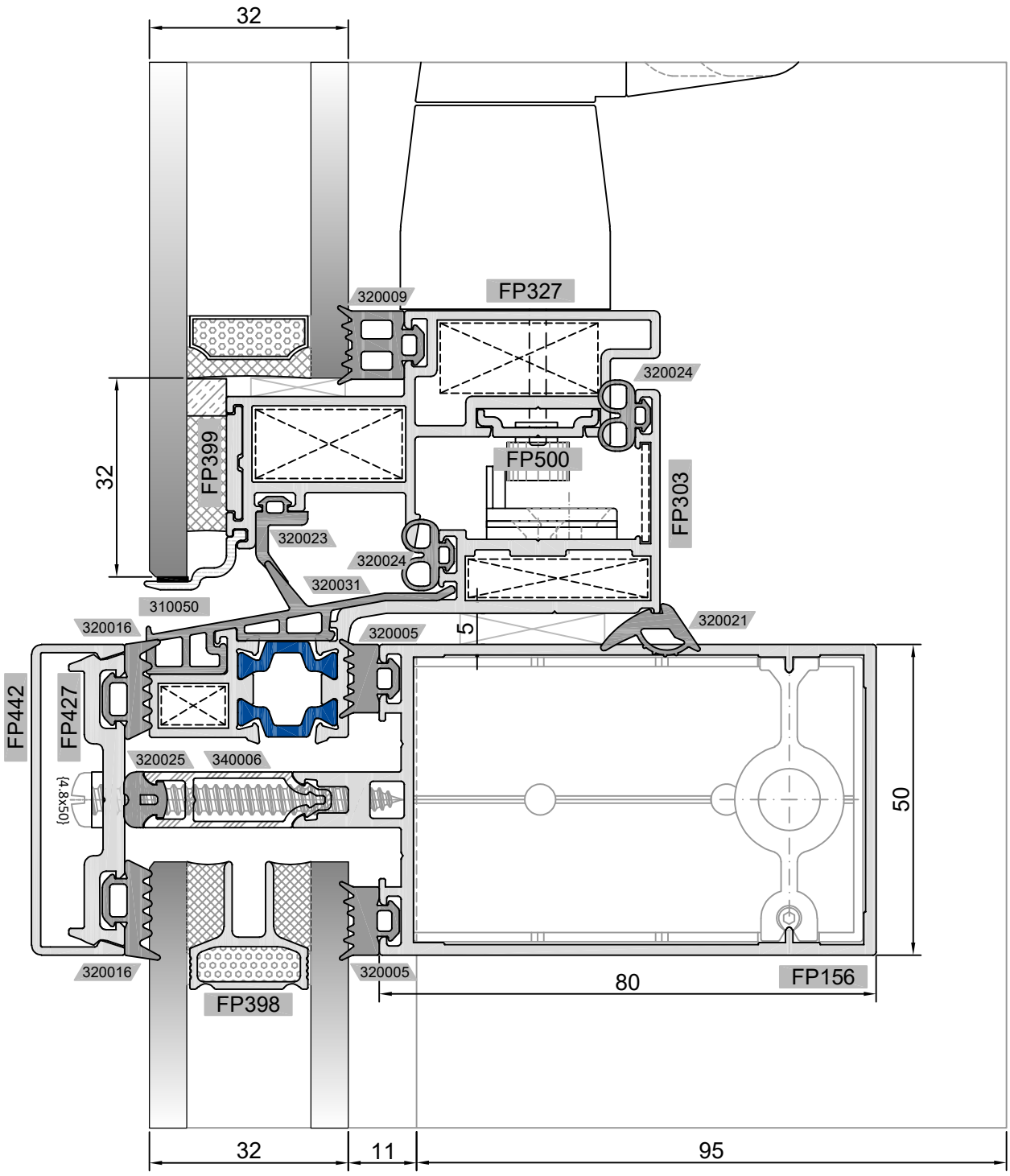


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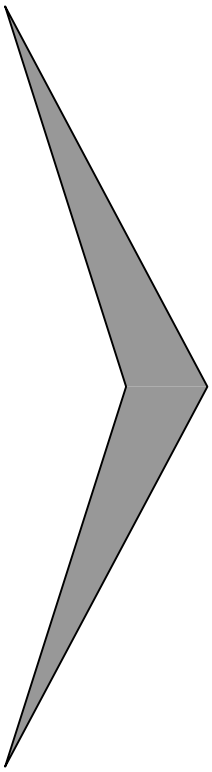


YATAY DETAYI
HORIZONTAL DETAIL



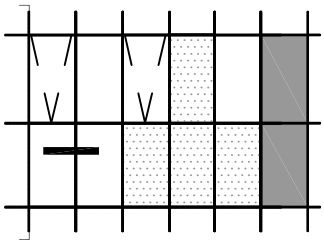
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ENTEGRE CEPHE
INTEGRATED CURTAIN WALL

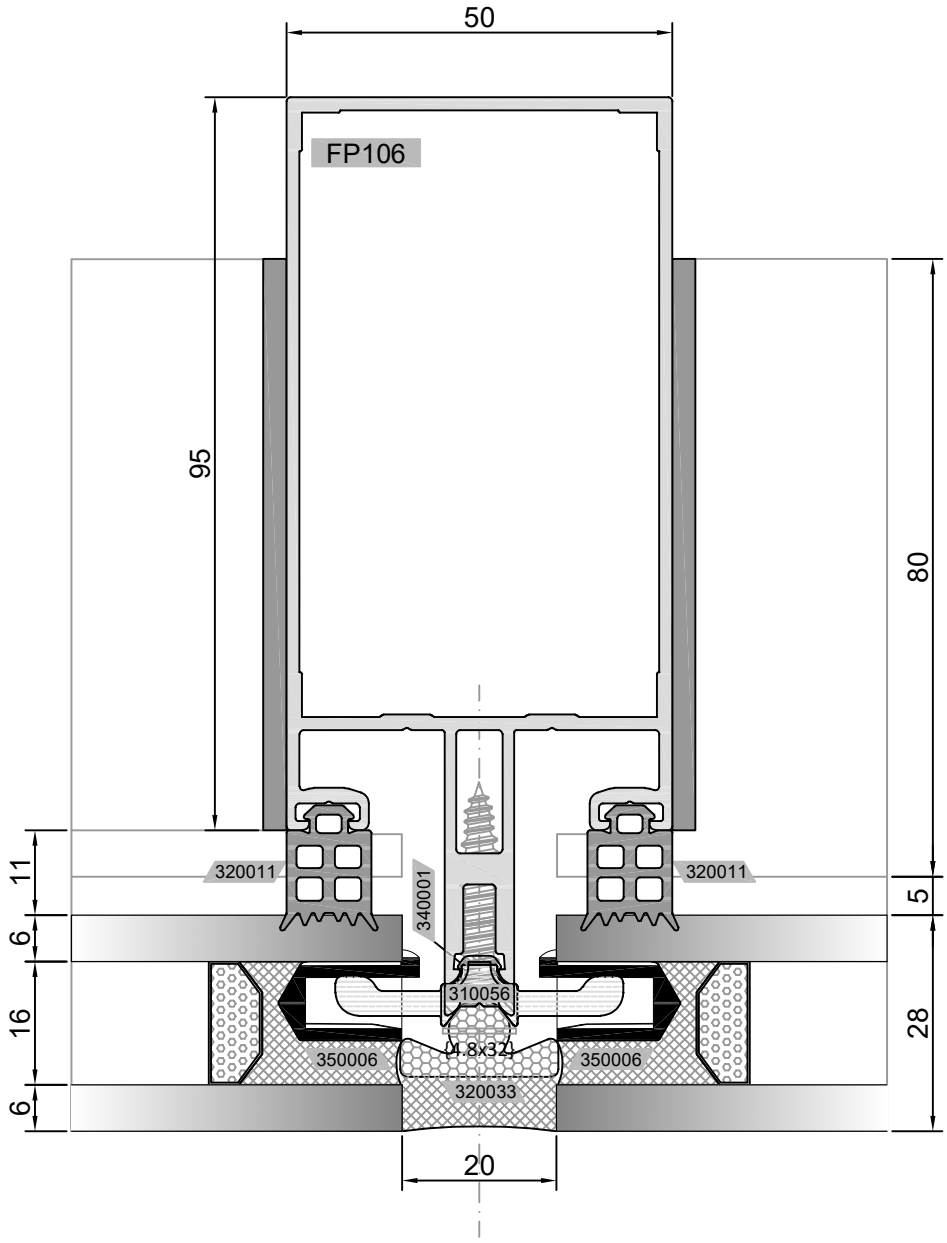


*** 16mm ÖZEL SICAK KENAR ISICAM ÇITASI**
16mm SPECIAL WARM EDGE SPACER

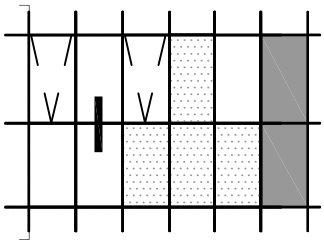
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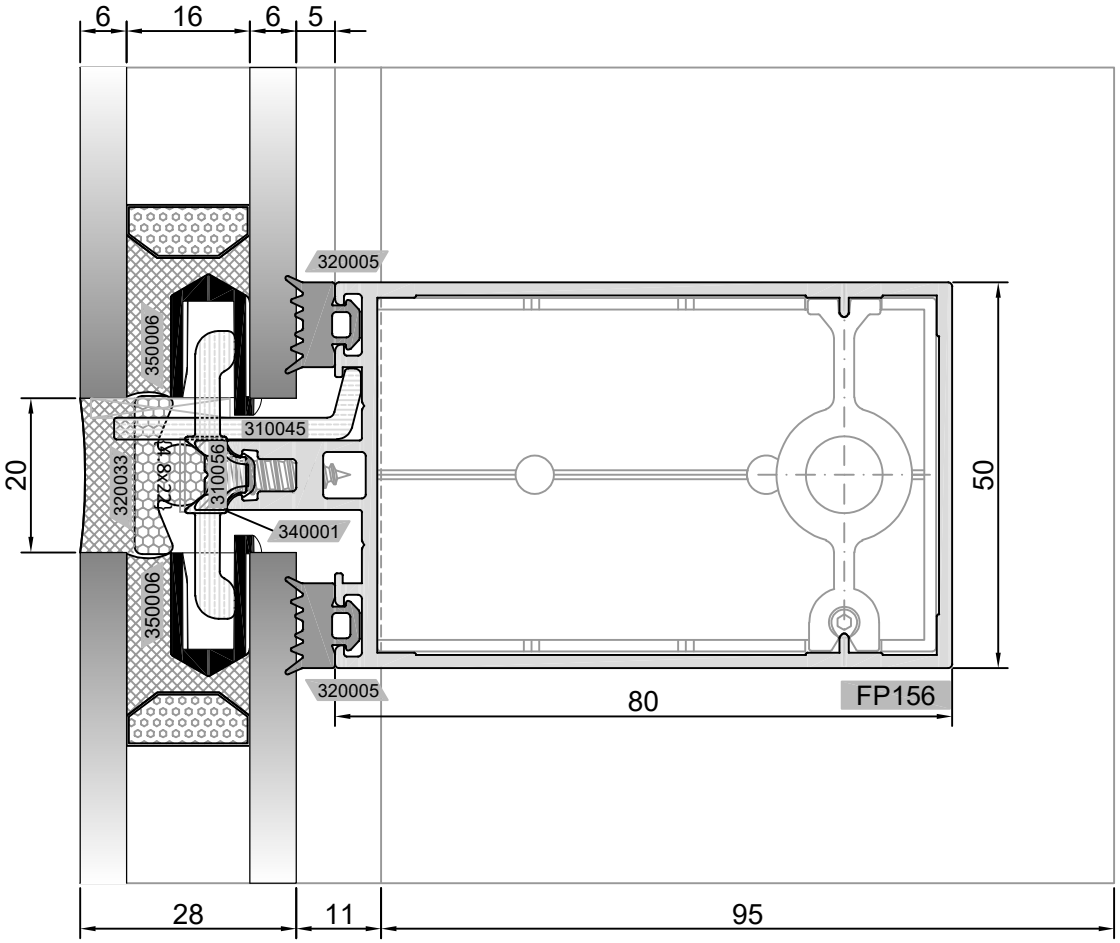
DÜŞEY DETAYI
VERTICAL DETAIL



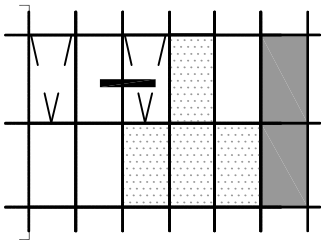
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YATAY DETAYI
HORIZONTAL DETAIL

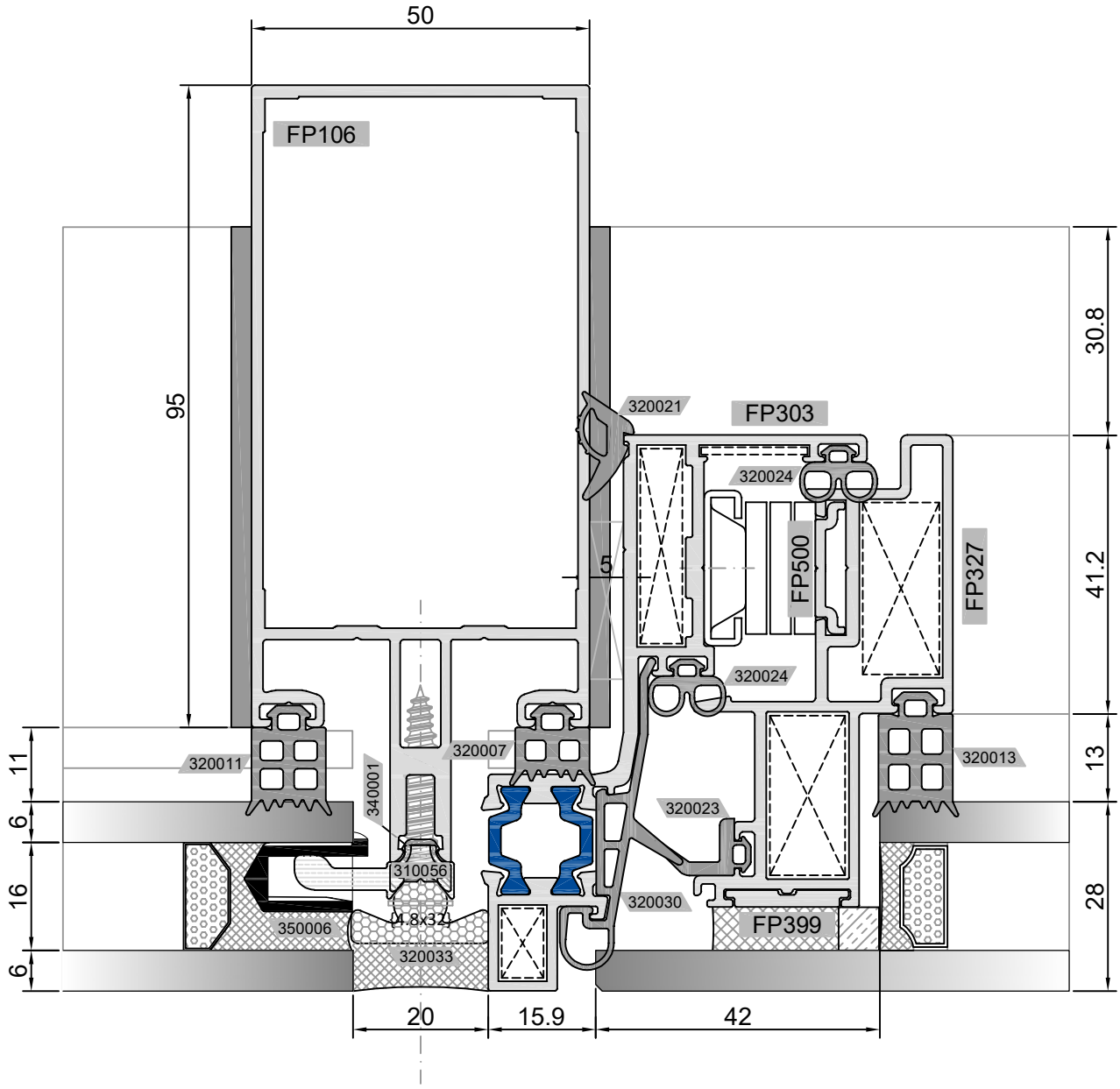


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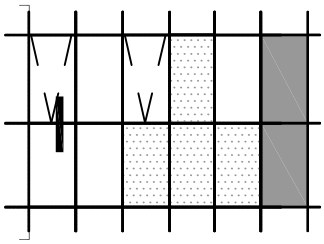


DÜŞEY DETAYI
VERTICAL DETAIL

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

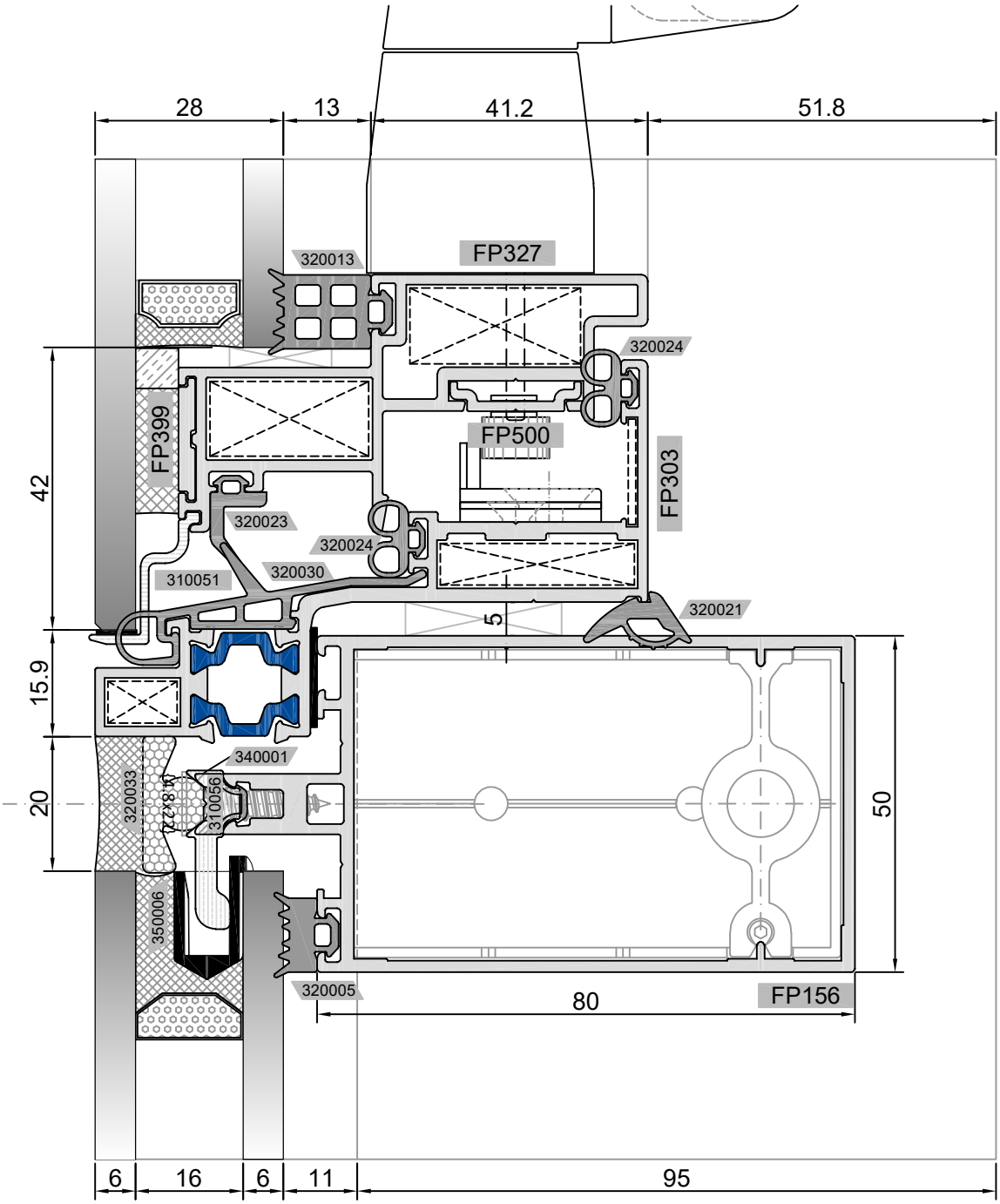


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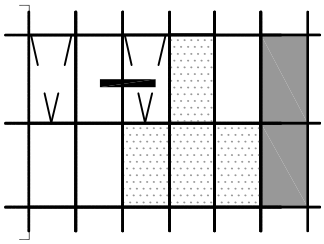


YATAY DETAYI
HORIZONTAL DETAIL

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

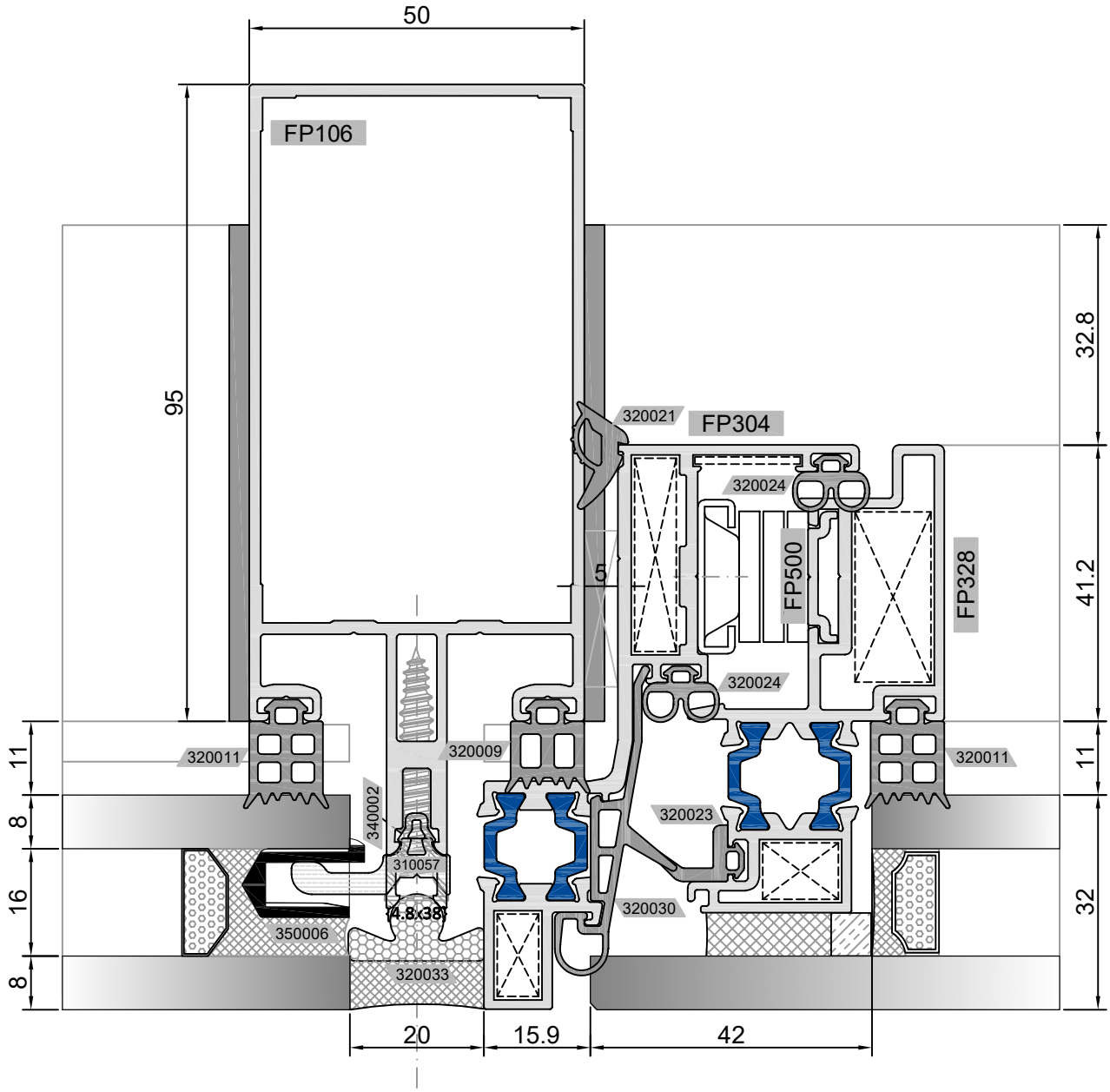


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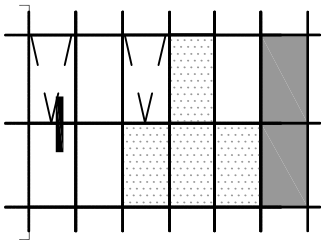


DÜŞEY DETAYI
VERTICAL DETAIL

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

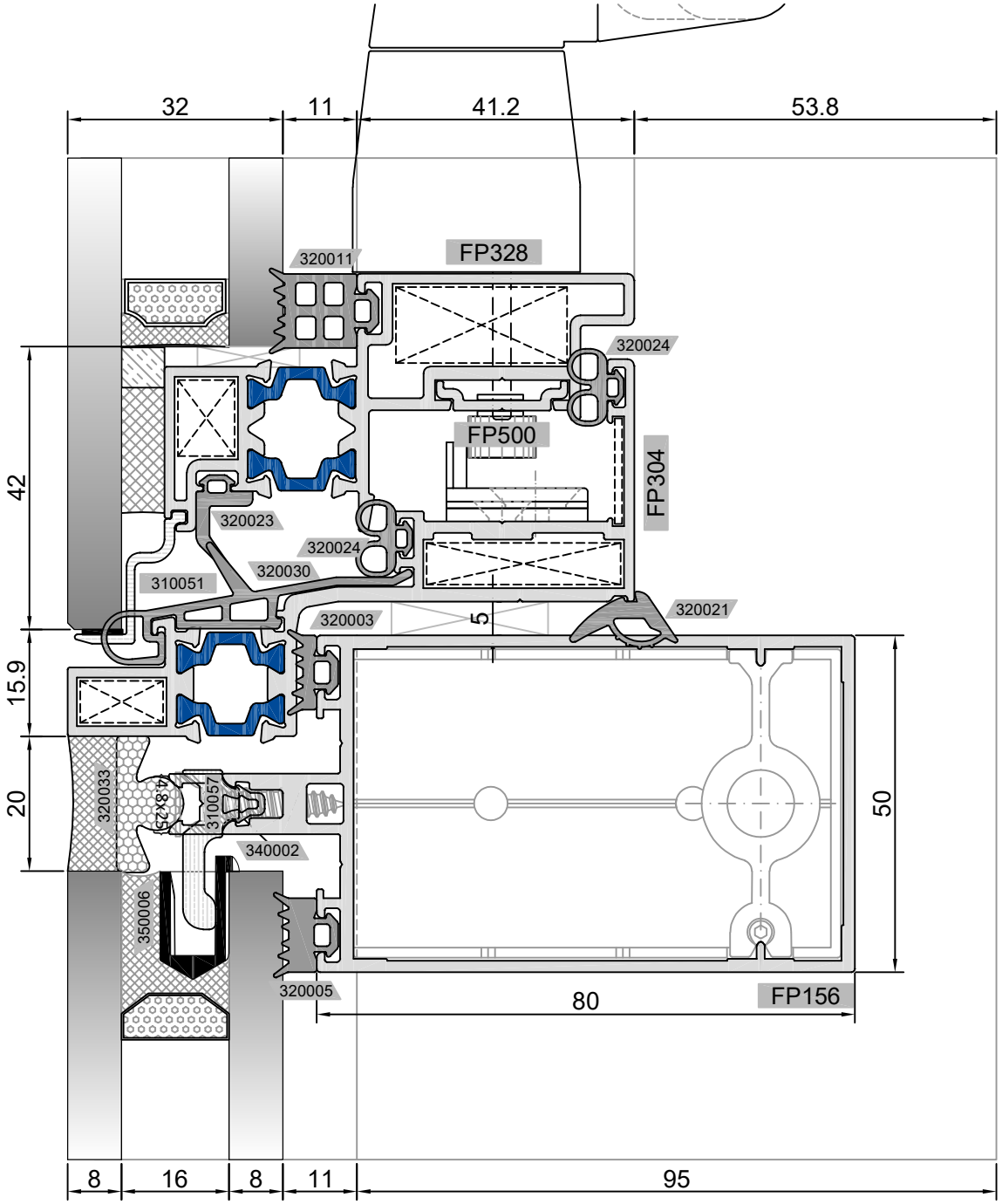


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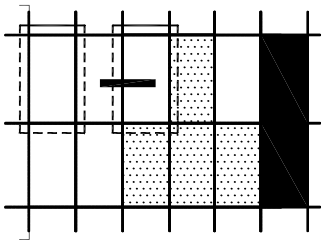


ALTERNATİF 2: YALITIMLI KANAT DETAYI
ALTERNATIVE 2 : INSULATED VENT DETAIL

YATAY DETAYI
HORIZONTAL DETAIL

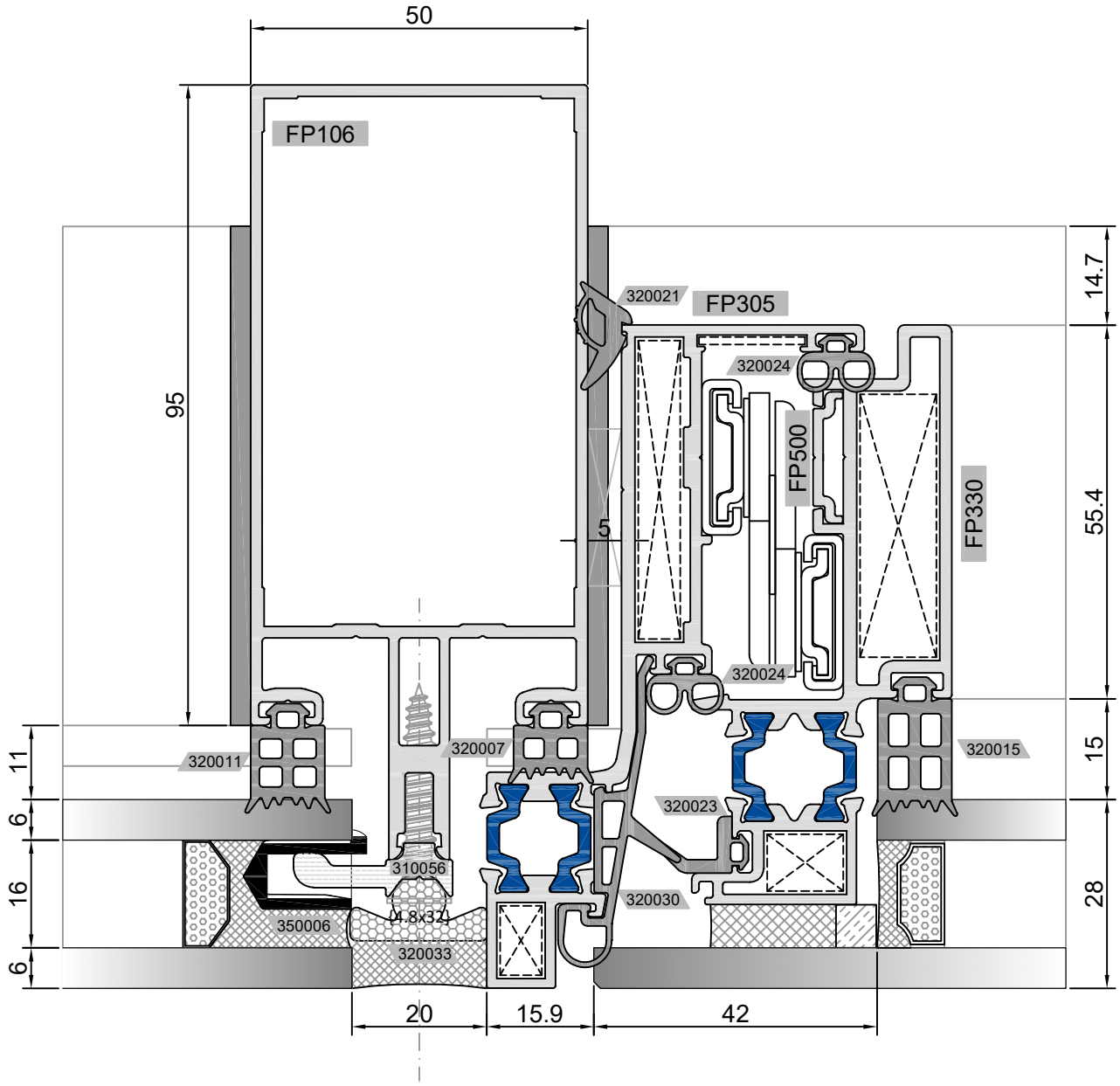


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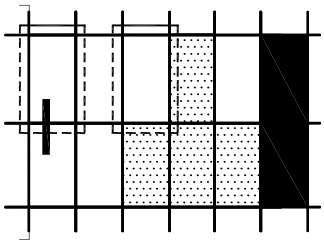


ALTERNATİF 1: YALITIMLI PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 1 : PARALEL OPENING INSULATED VENT DETAIL

DÜŞEY DETAYI
VERTICAL DETAIL

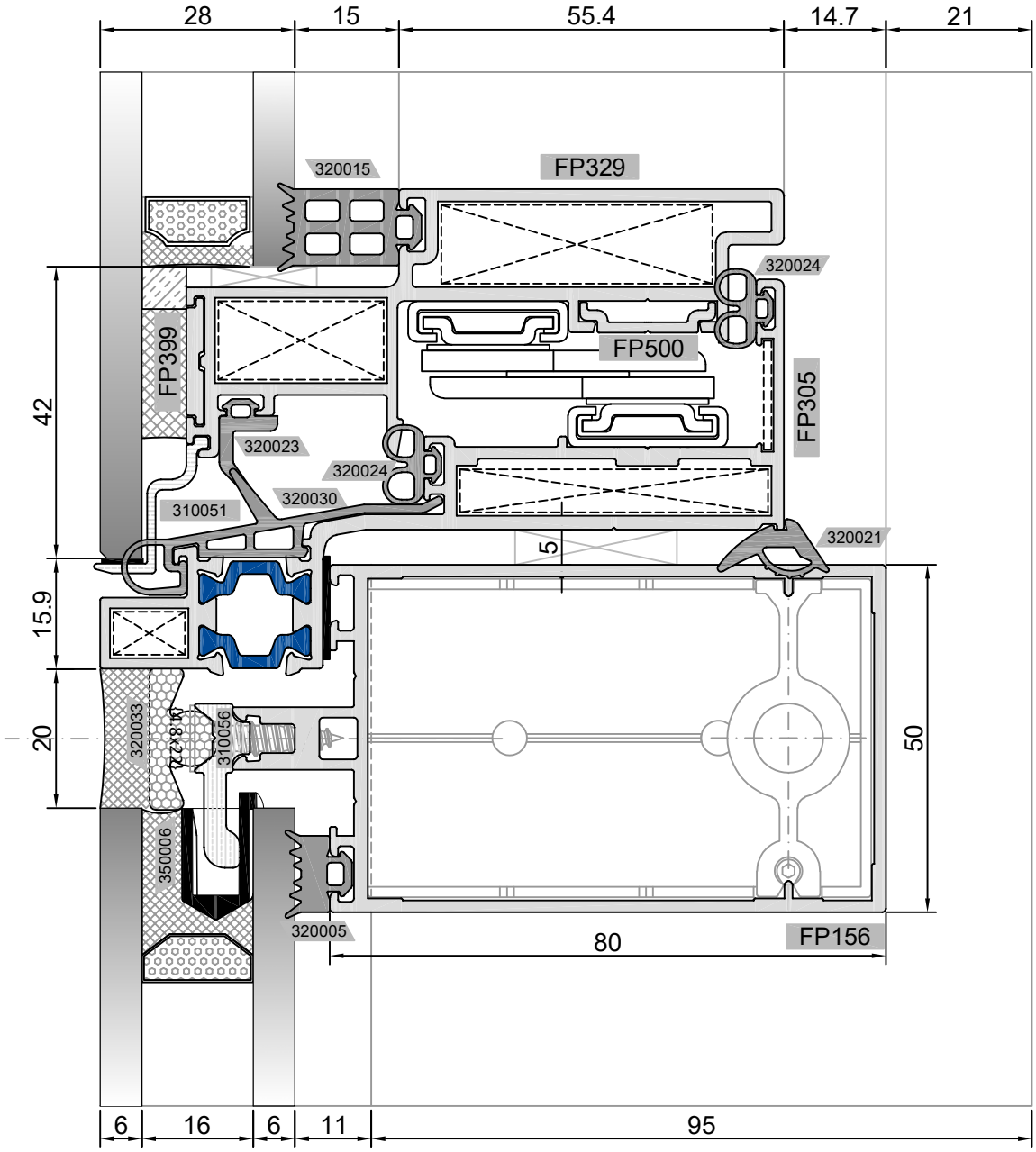


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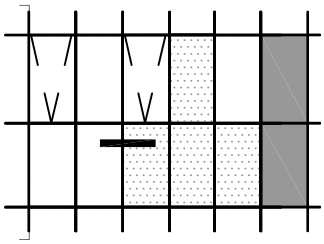


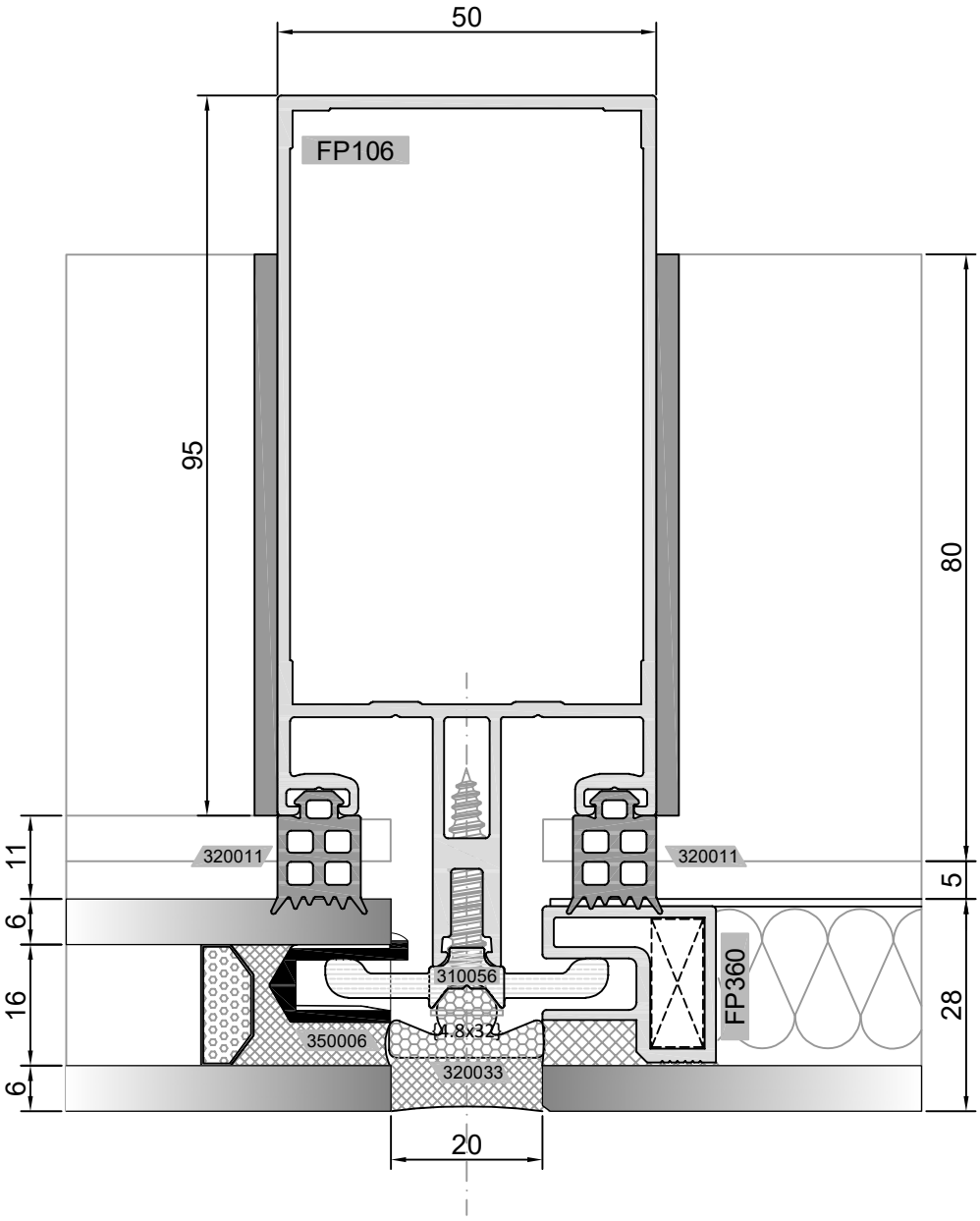
ALTERNATİF 2: YALITIMSIZ PARALEL AÇILIR KANAT DETAYI
ALTERNATIVE 2 : PARALEL OPENING UNINSULATED VENT DETAIL

YATAY DETAYI
HORIZONTAL DETAIL



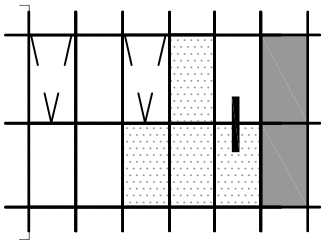
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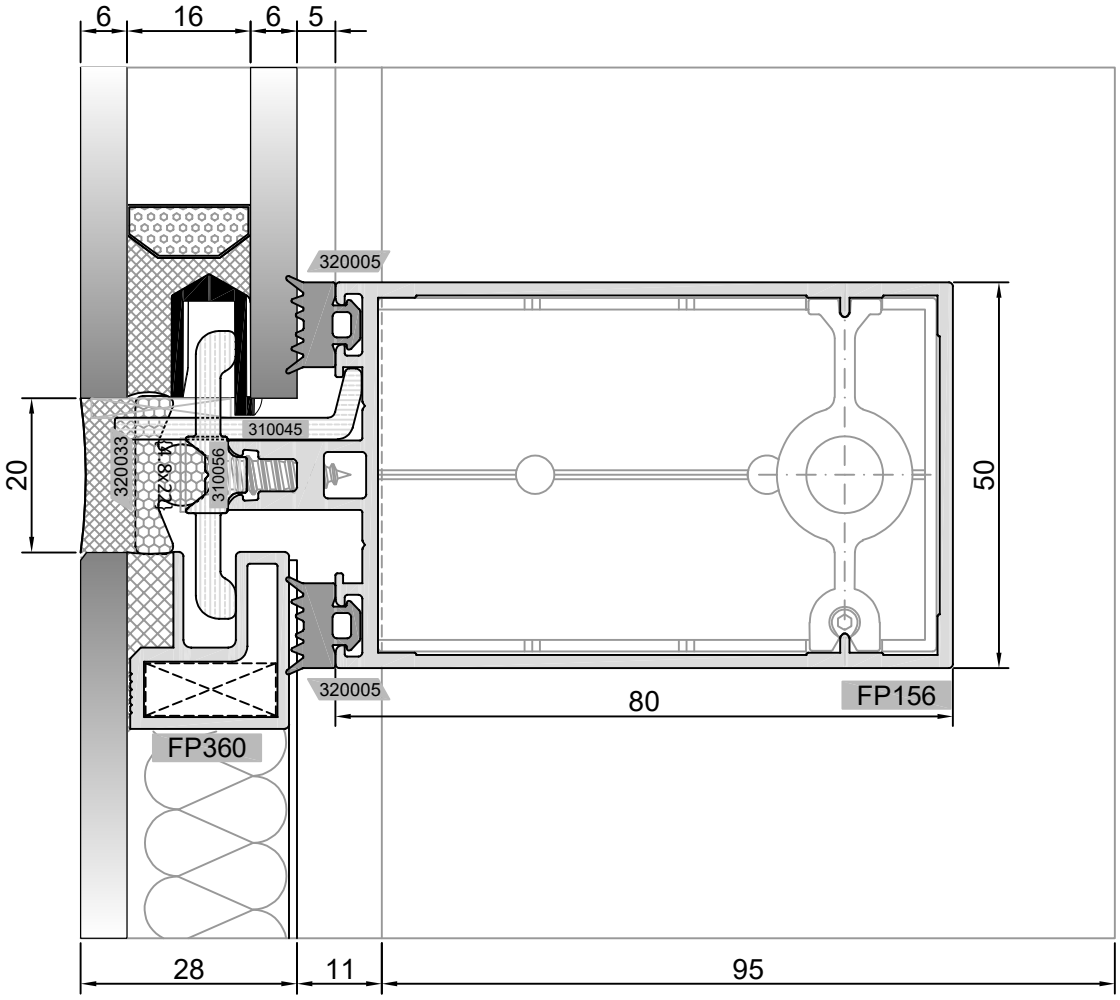




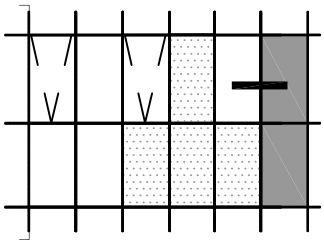
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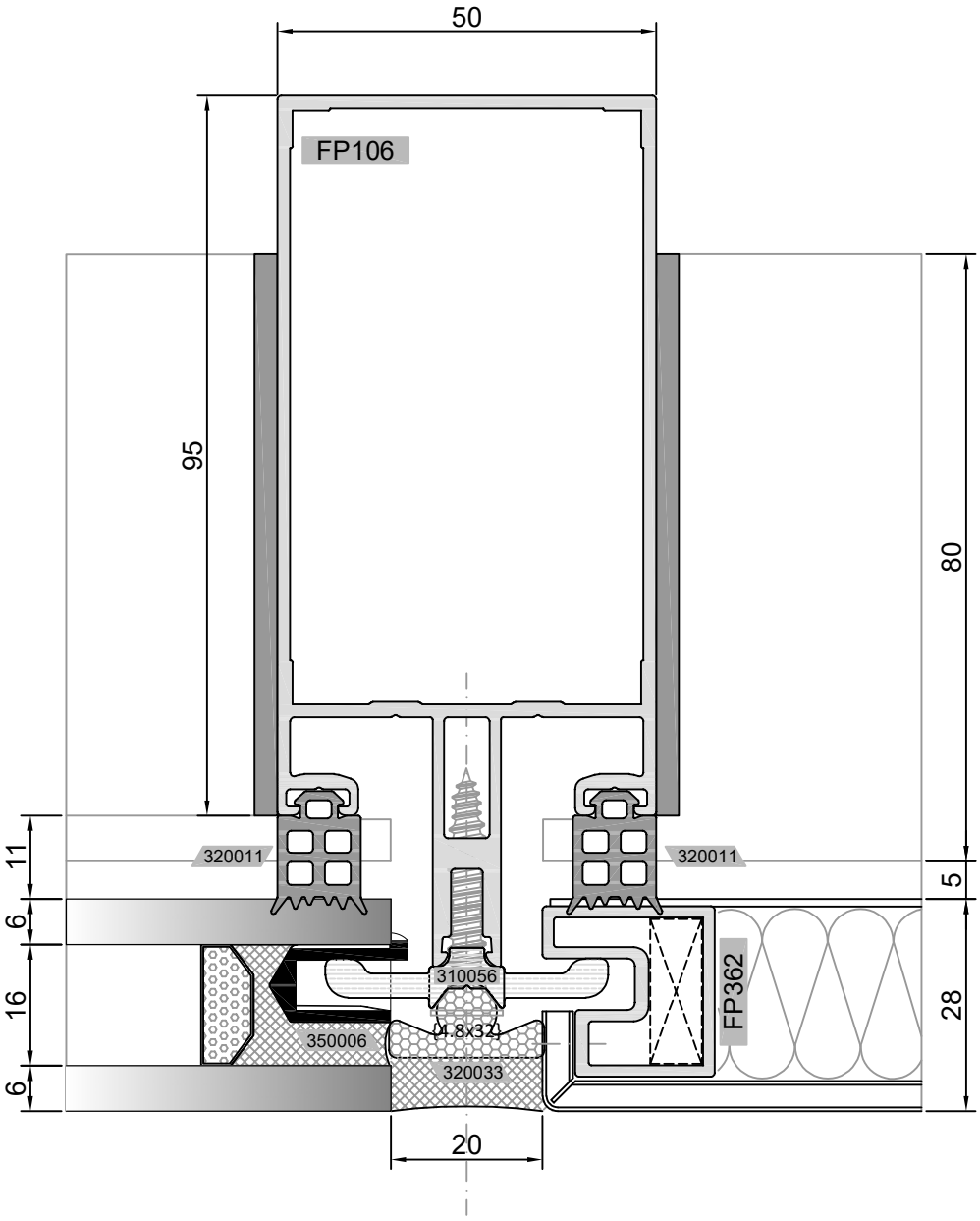
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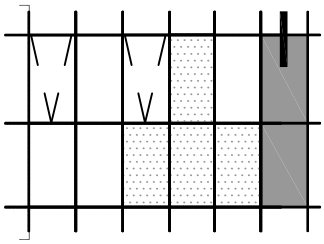
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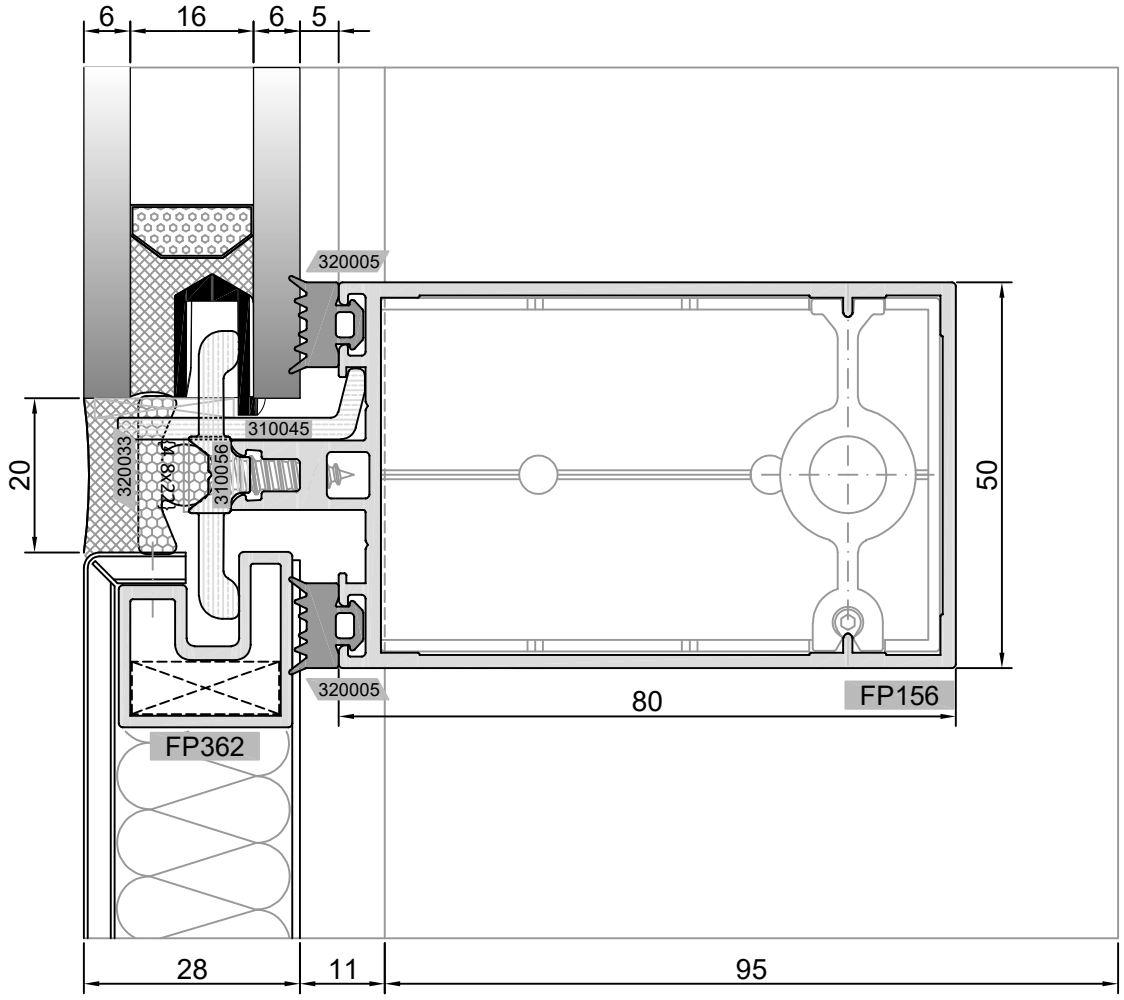




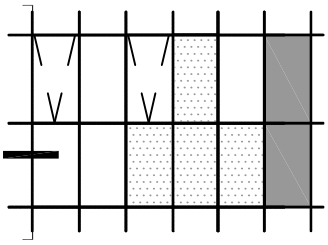
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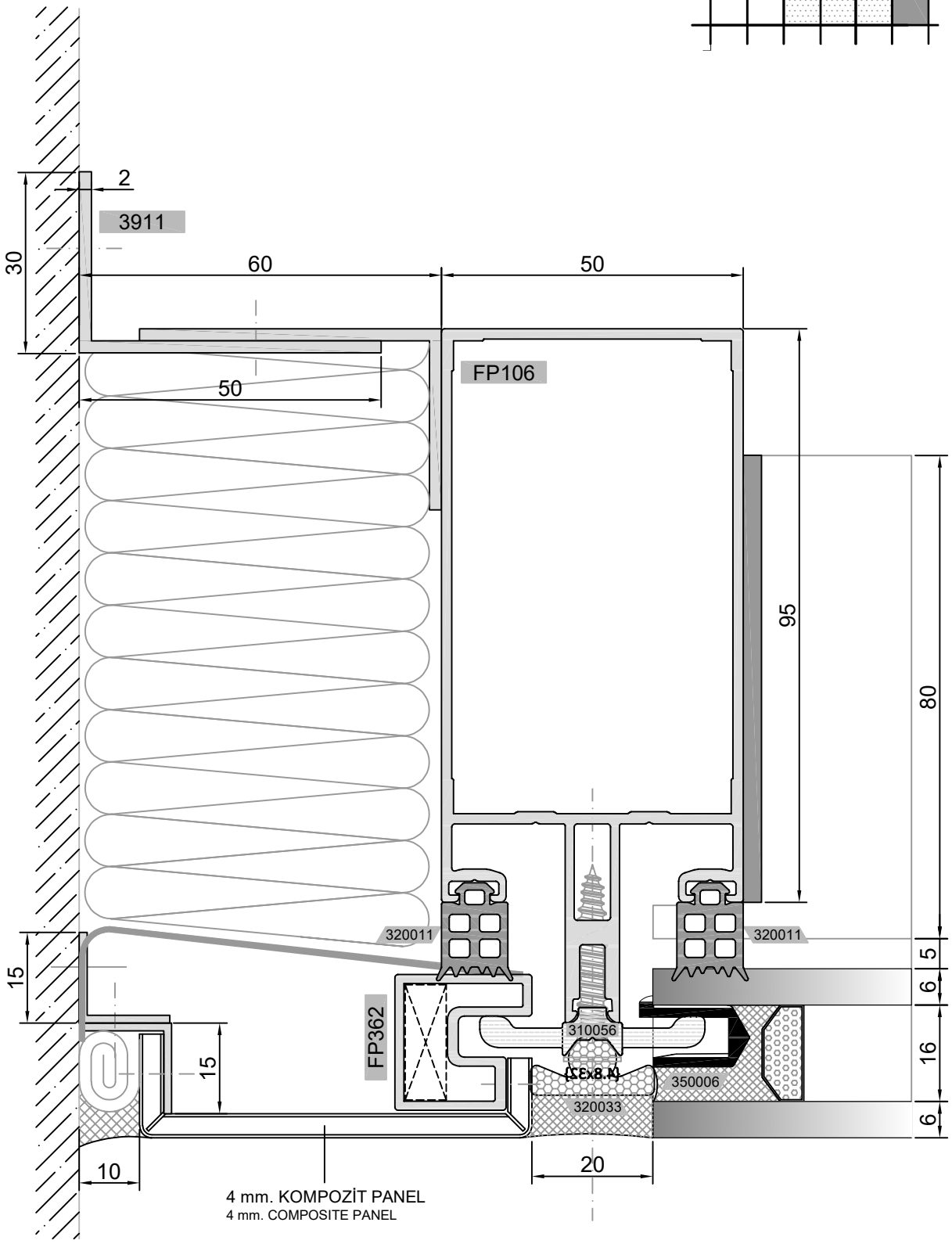
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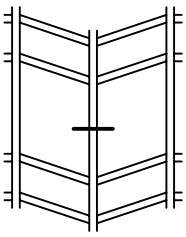
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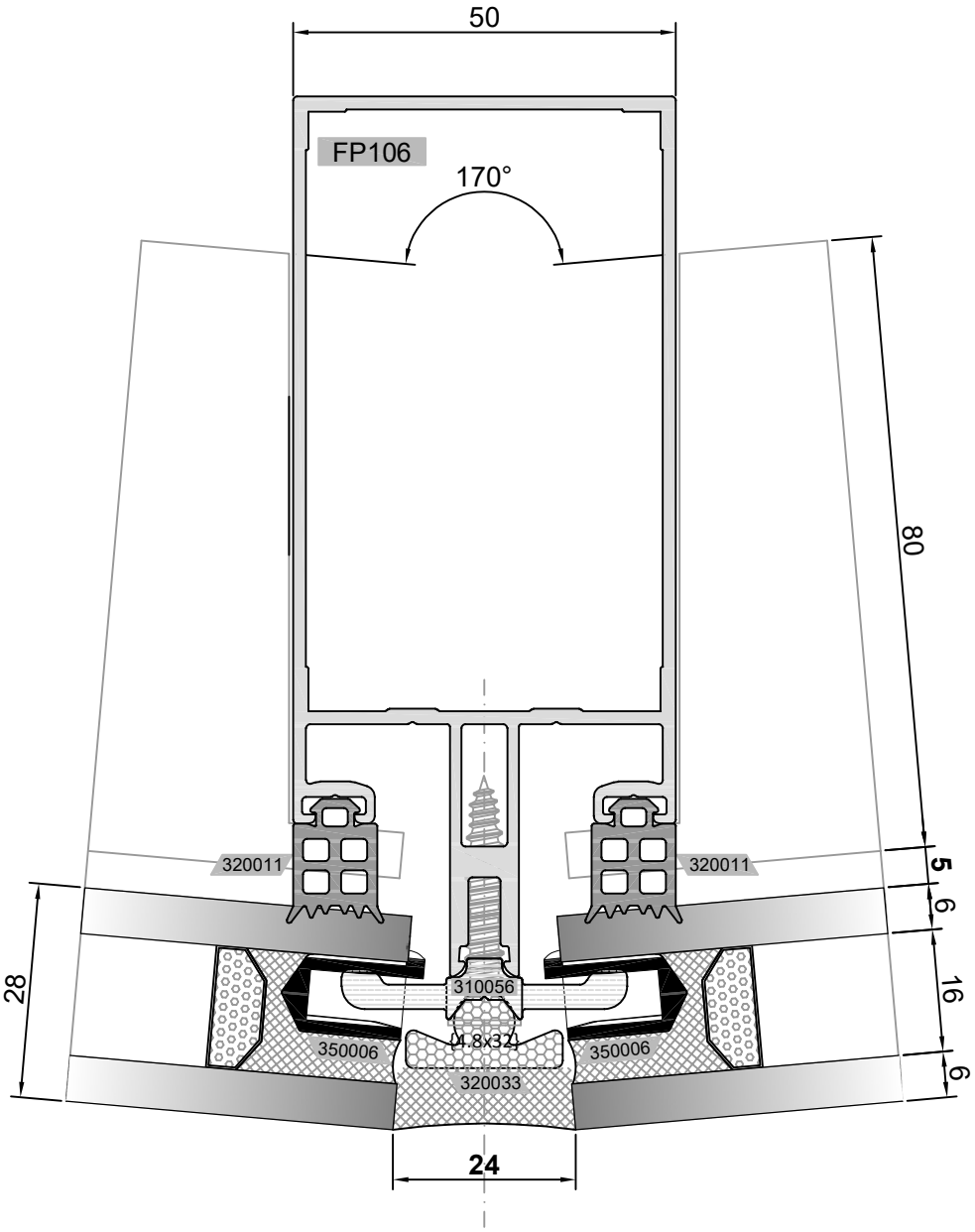


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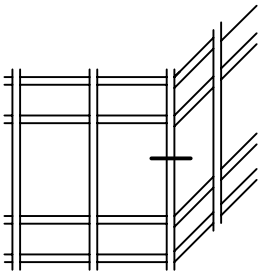
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0° - 10°

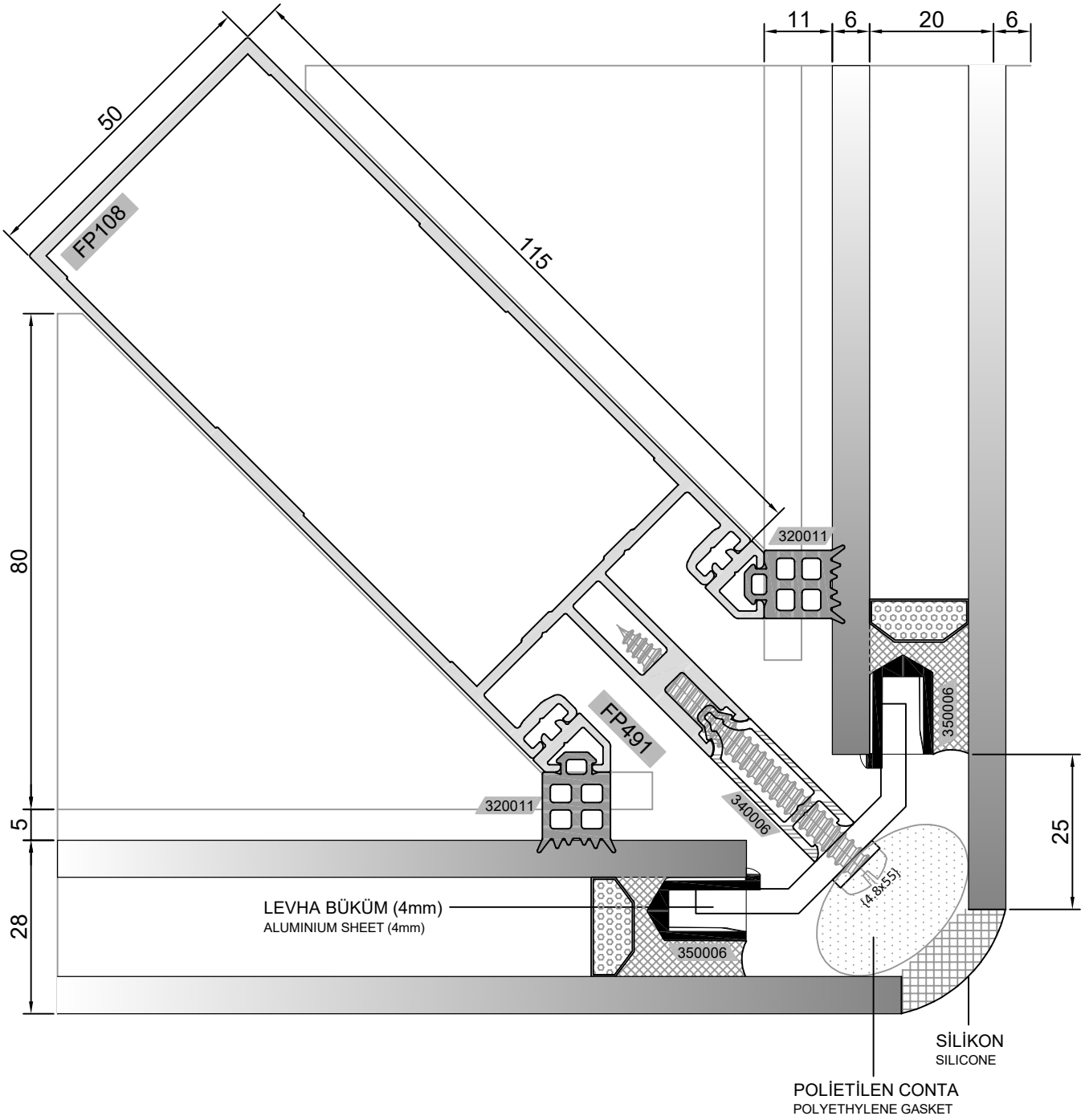


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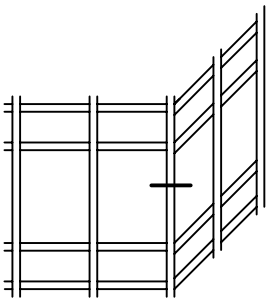
90°

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



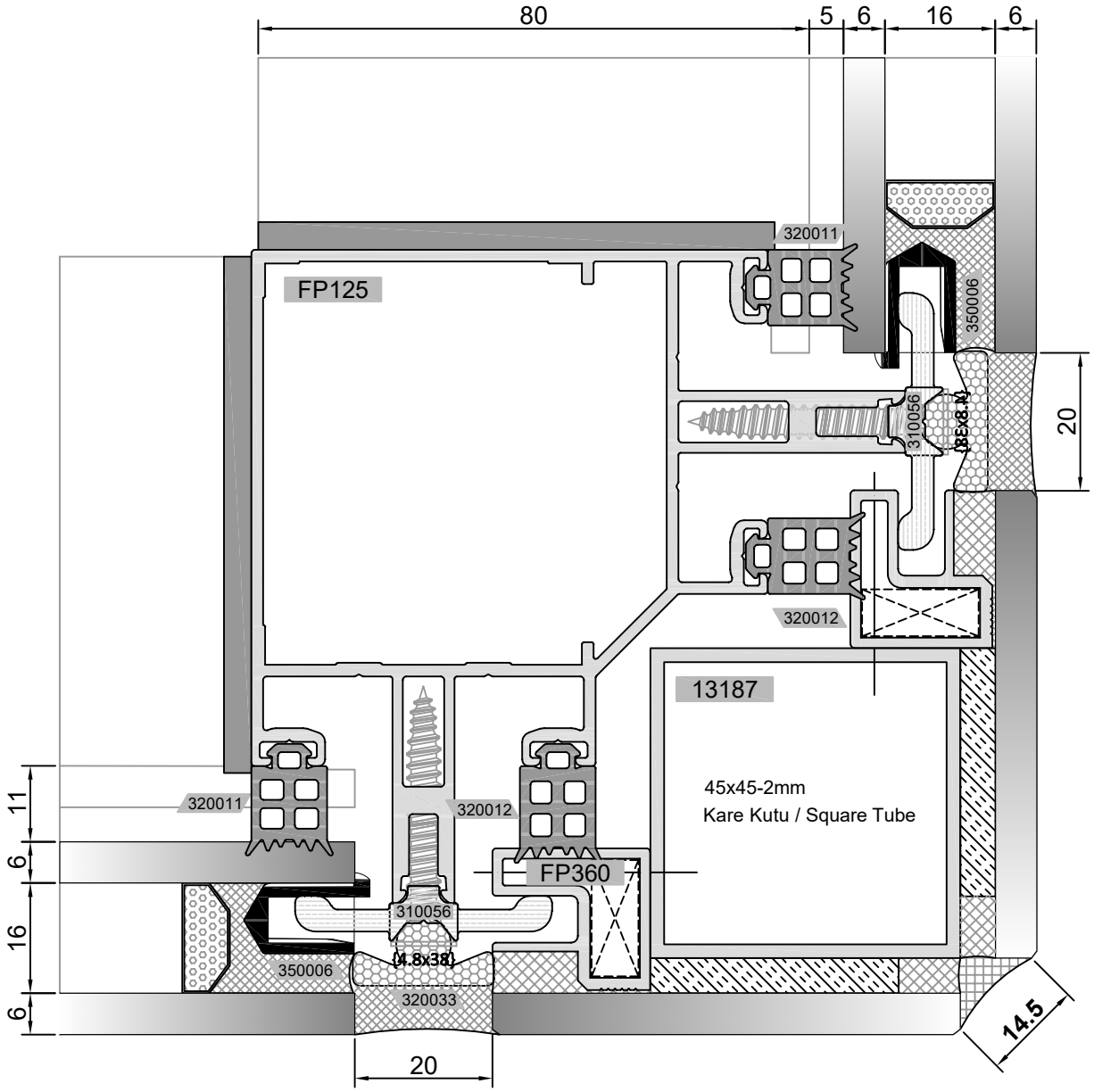
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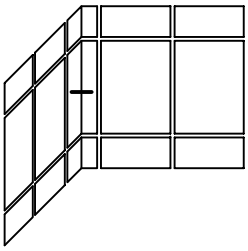


90°

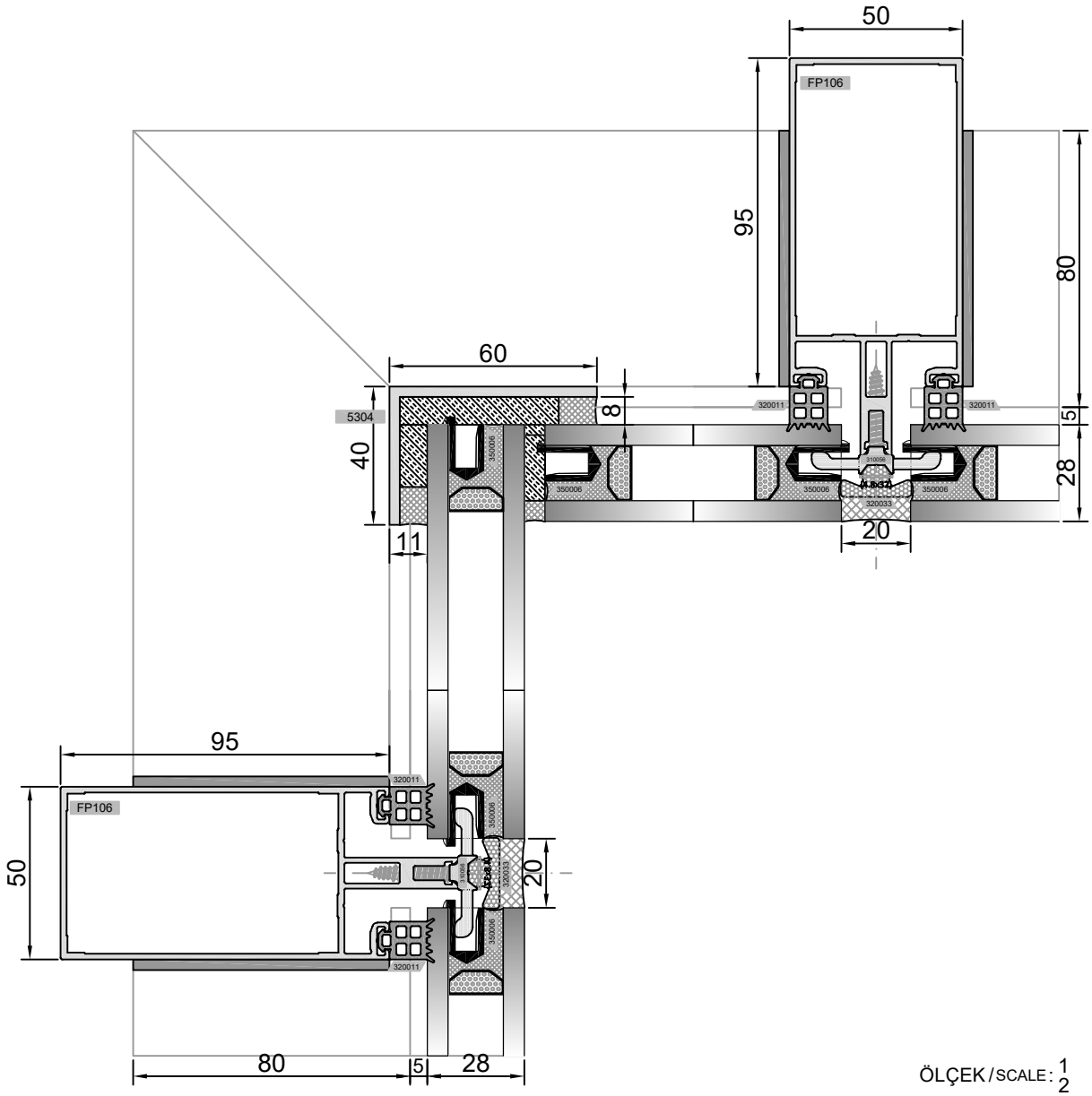
ALTERNATİF 2: ÇİFT DİKMELİ KÖŞE DETAYI
ALTERNATIVE 2 : CORNER DETAIL WITH DOUBLE MULLION



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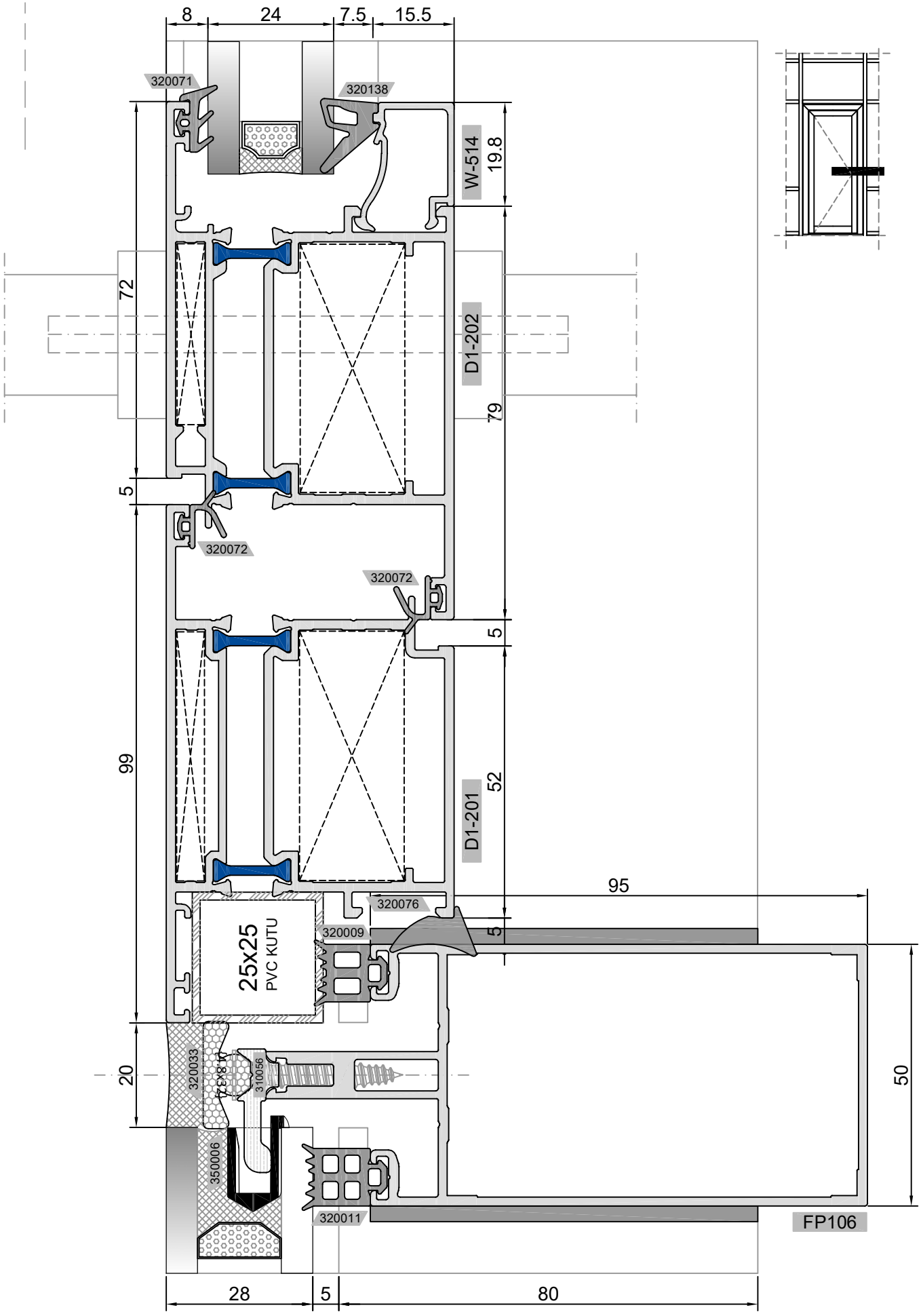
90° İÇ AÇILI CAM CEPHE DÜŞEY KESİT DETAYI
FOUR SIDE WITH 90° INTERNAL ANGLE VERTICAL DETAIL



ÖLÇEK / SCALE : 1/2

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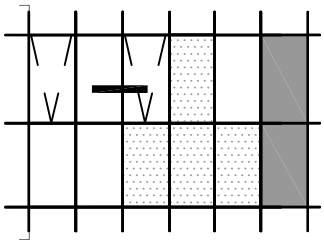
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YARI-KAPAKLI CEPHE
SEMI-CAPPED CURTAIN WALL

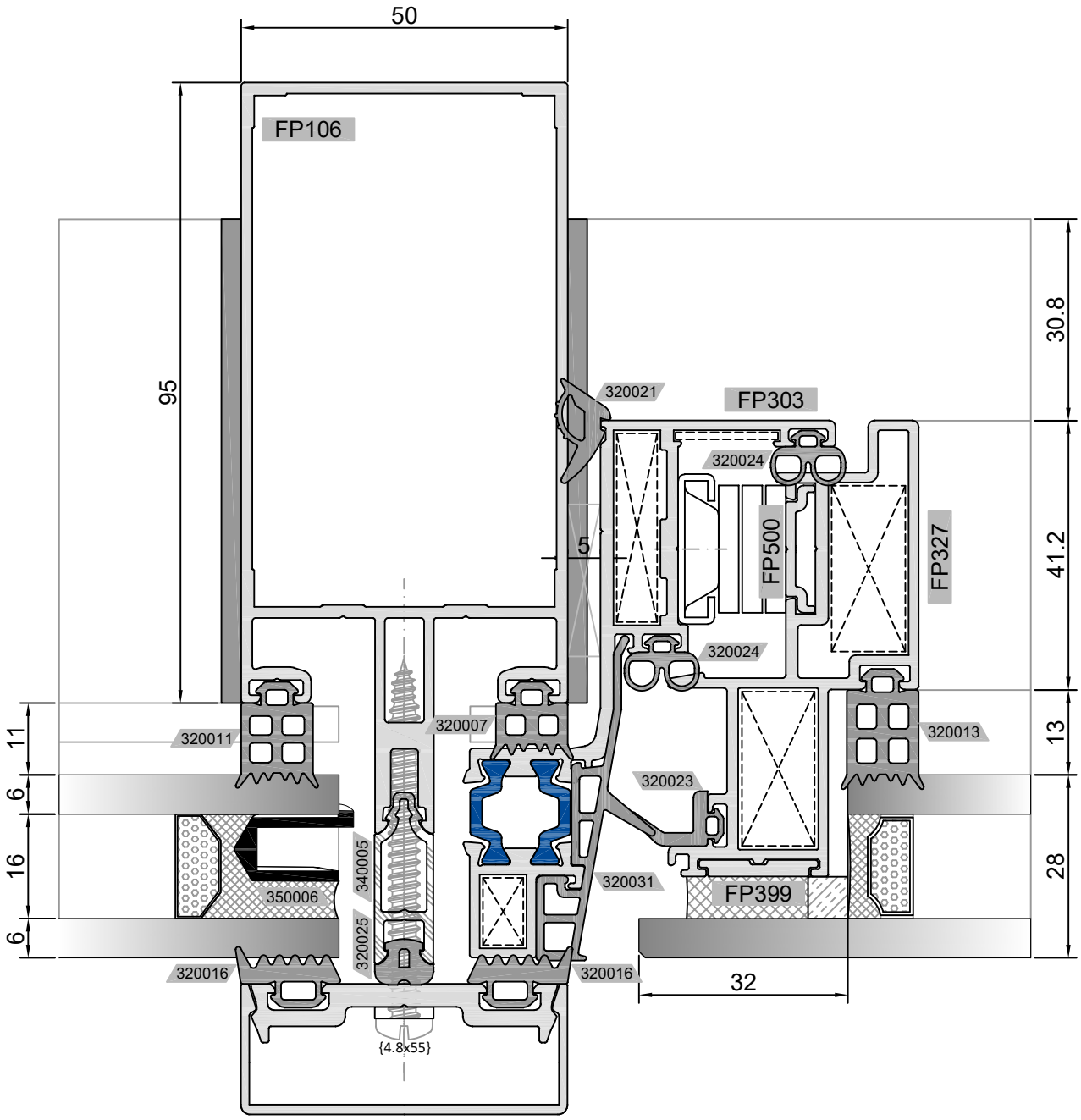
* **16mm ÖZEL SICAK KENAR ISICAM ÇITASI**
  16mm SPECIAL WARM EDGE SPACER

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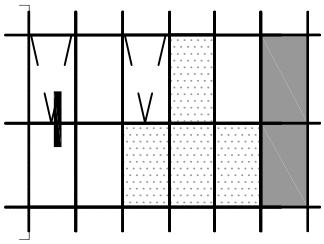


DÜŞEY DETAYI
VERTICAL DETAIL

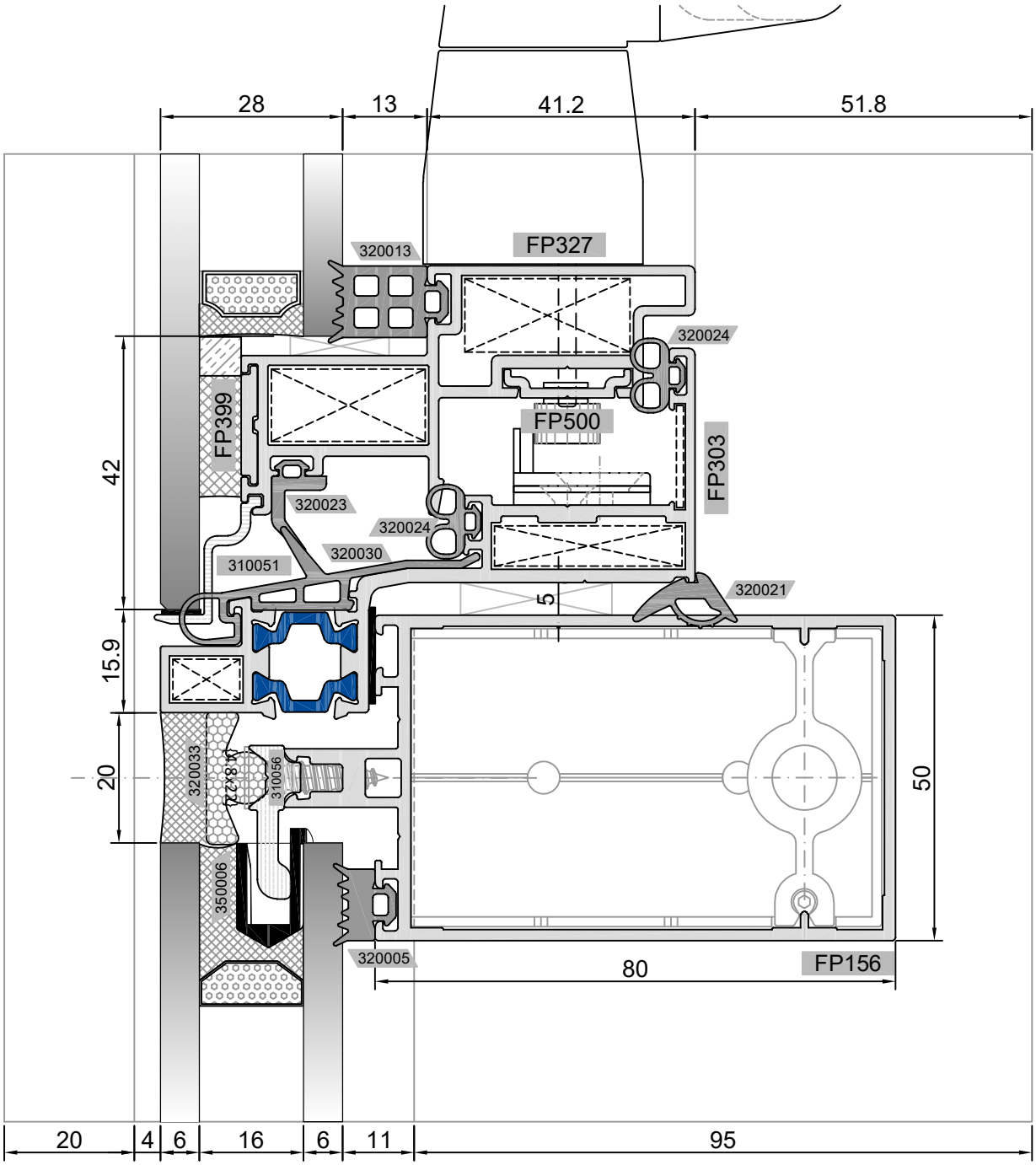


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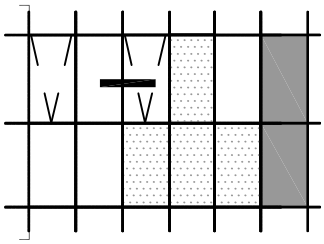
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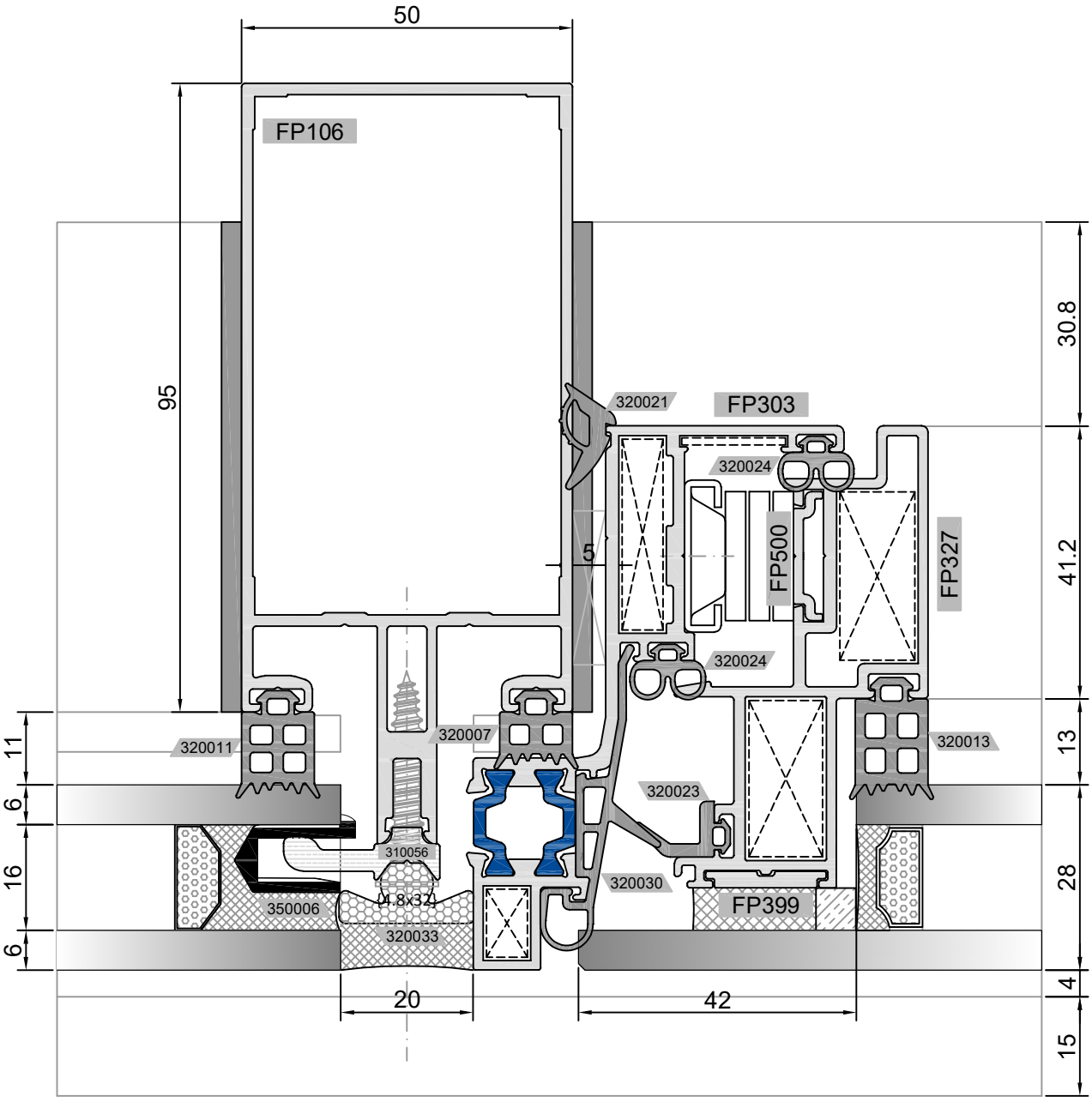
YATAY DETAYI
HORIZONTAL DETAIL



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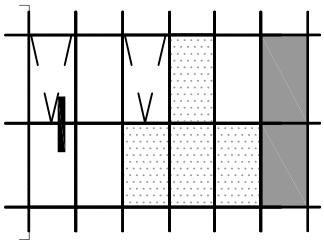


DÜŞEY DETAYI
VERTICAL DETAIL

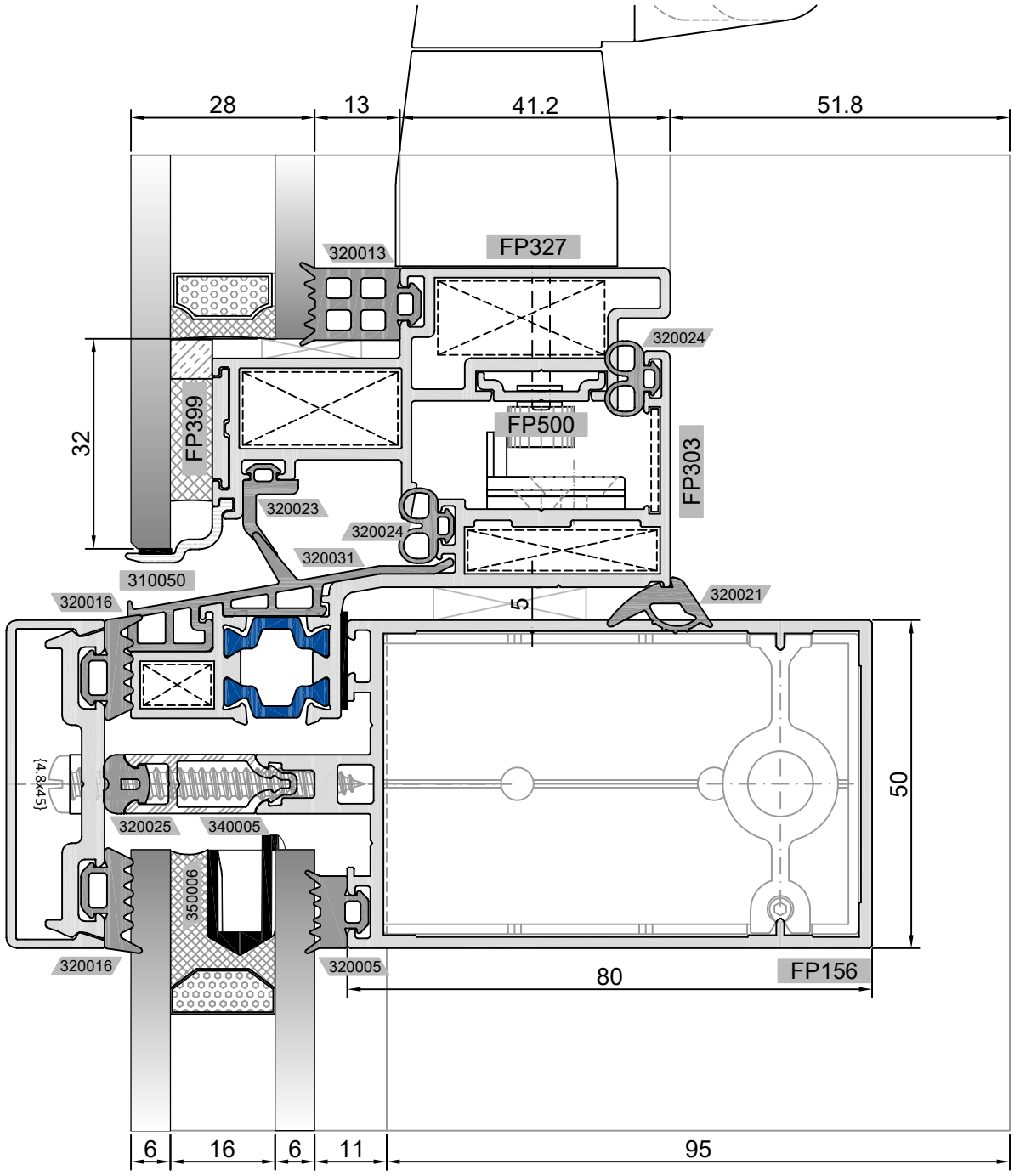


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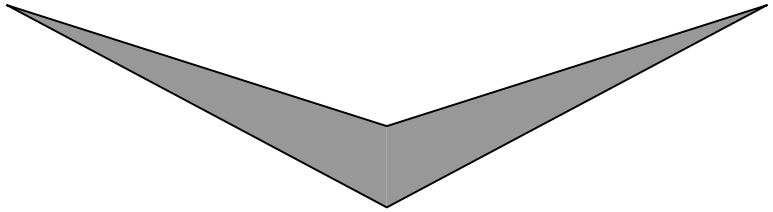
YATAY DETAYI
HORIZONTAL DETAIL



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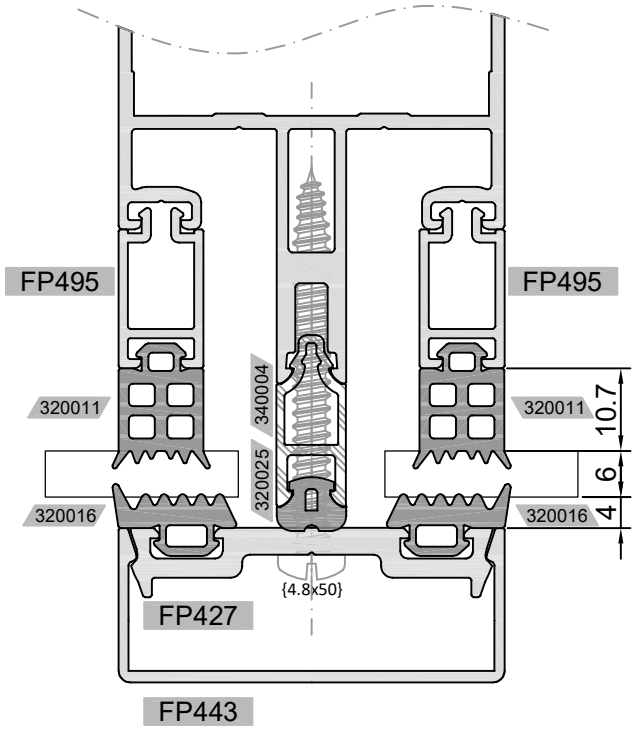
CAM KALINLIKLARINA GÖRE KAPAKLI SİSTEM DETAYLARI

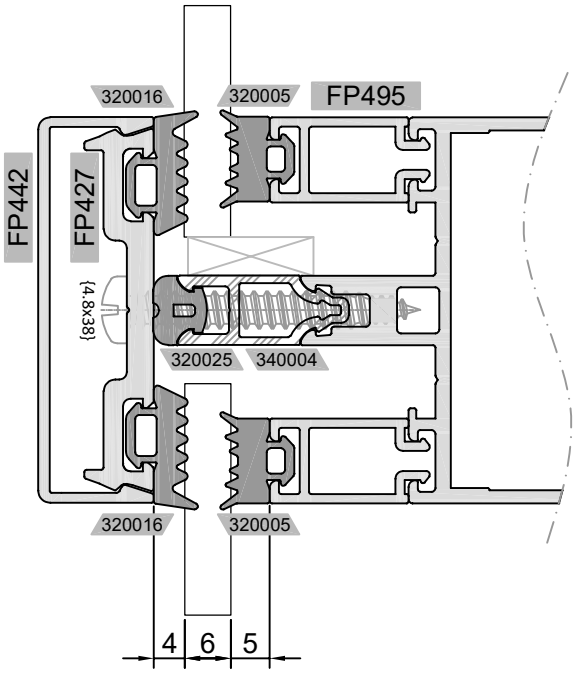
CAPPED CURTAIN WALL DETAILS ACCORDING TO THE GLASS THICKNESSES



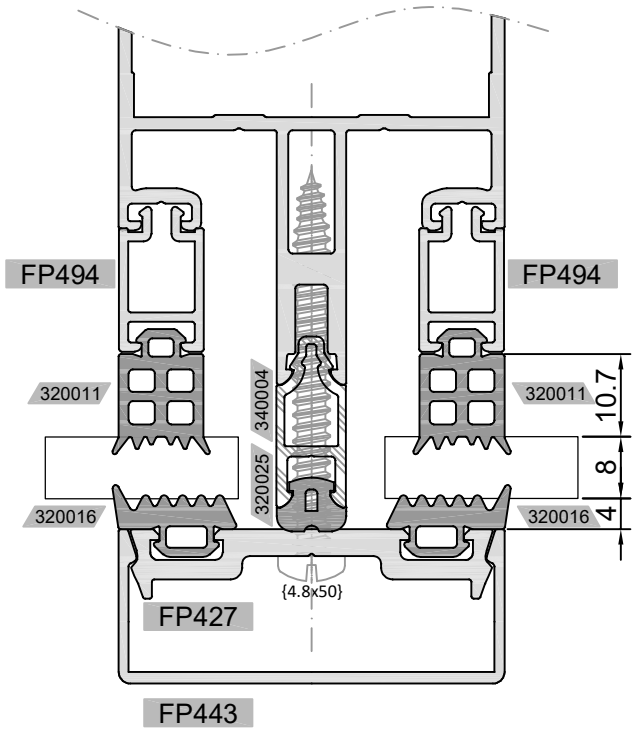
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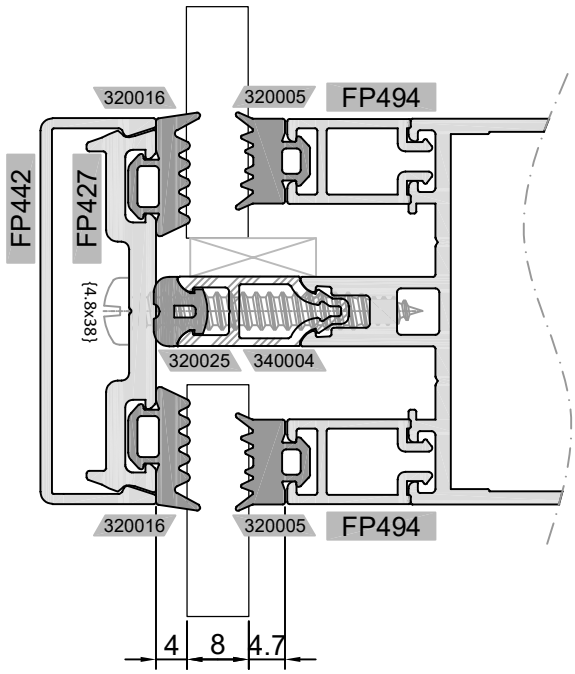
6mm





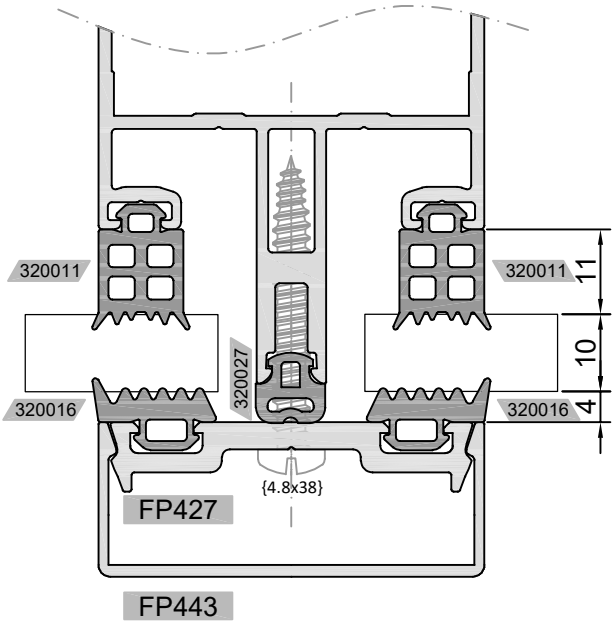
8mm

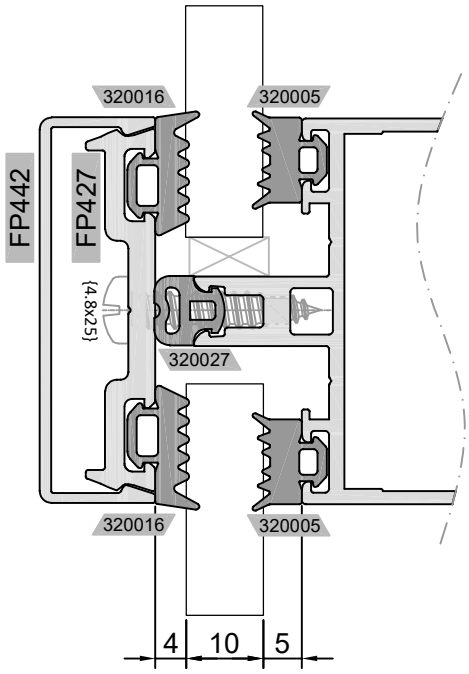




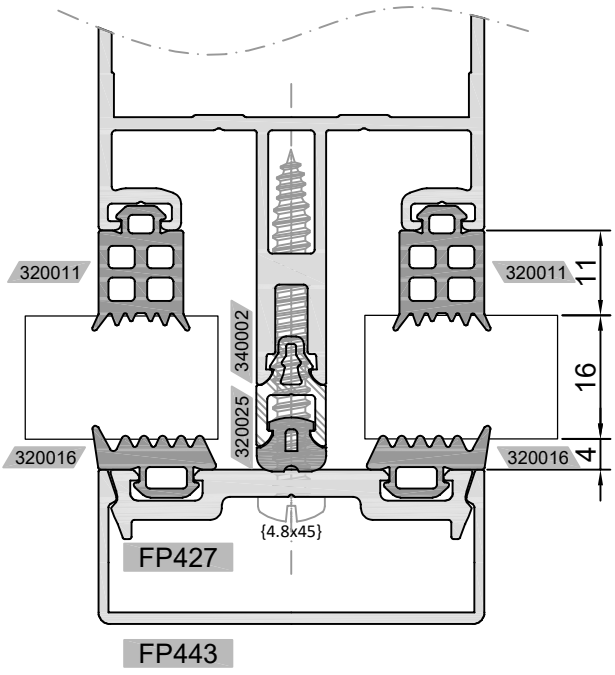
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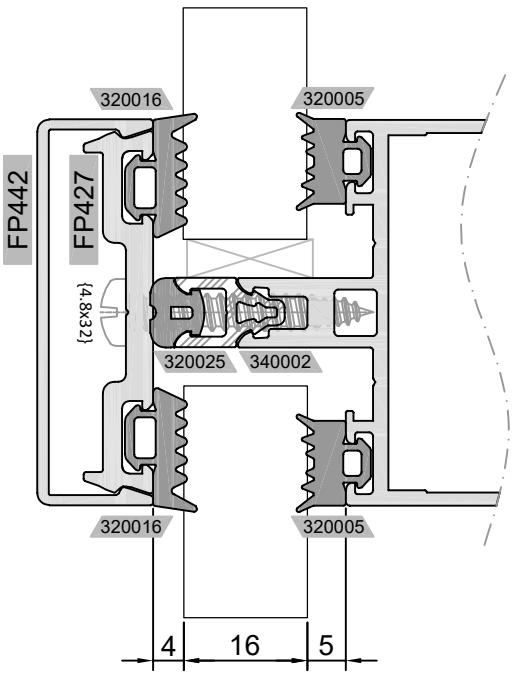
10mm





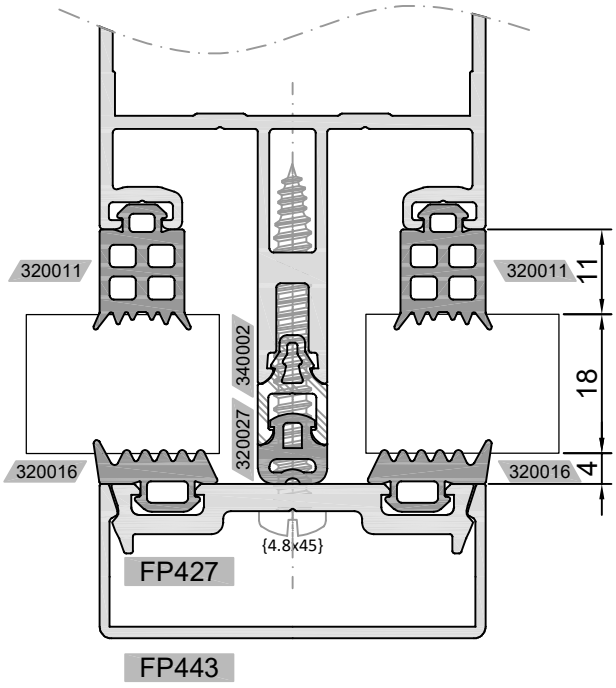
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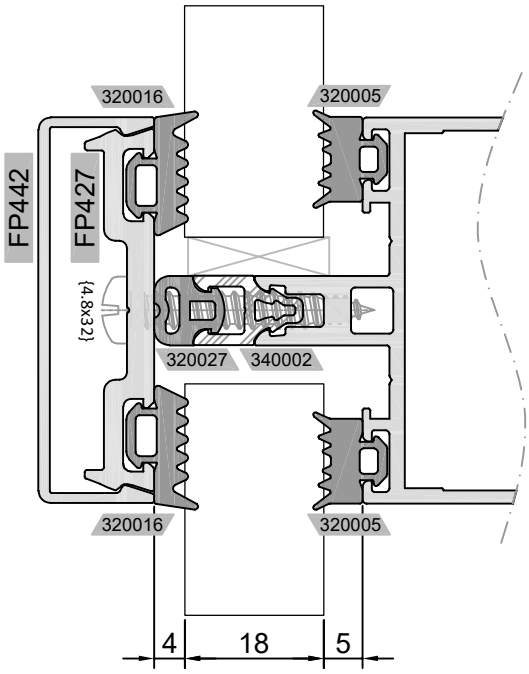




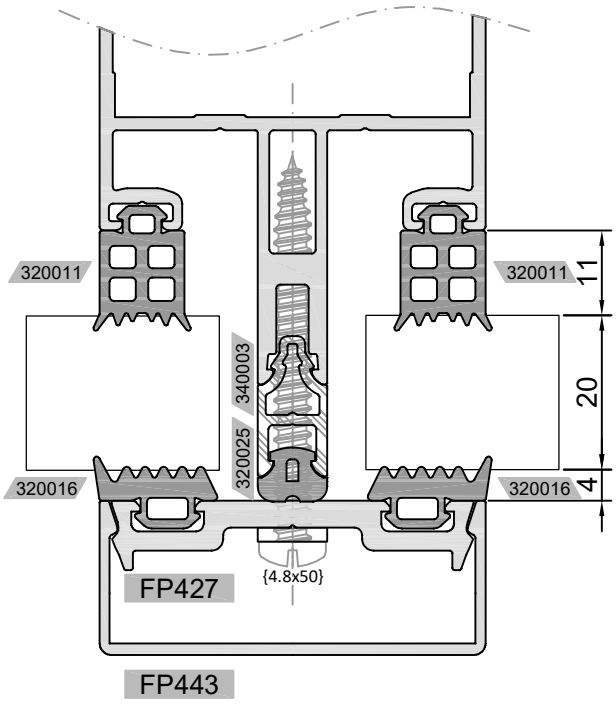
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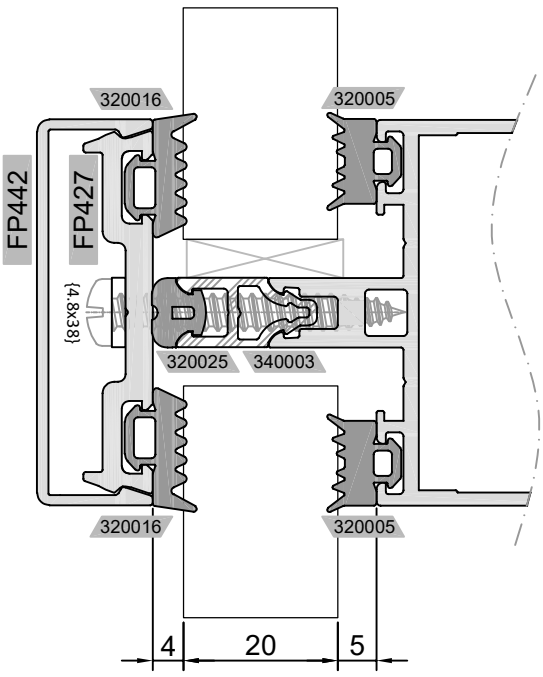
18mm





20mm

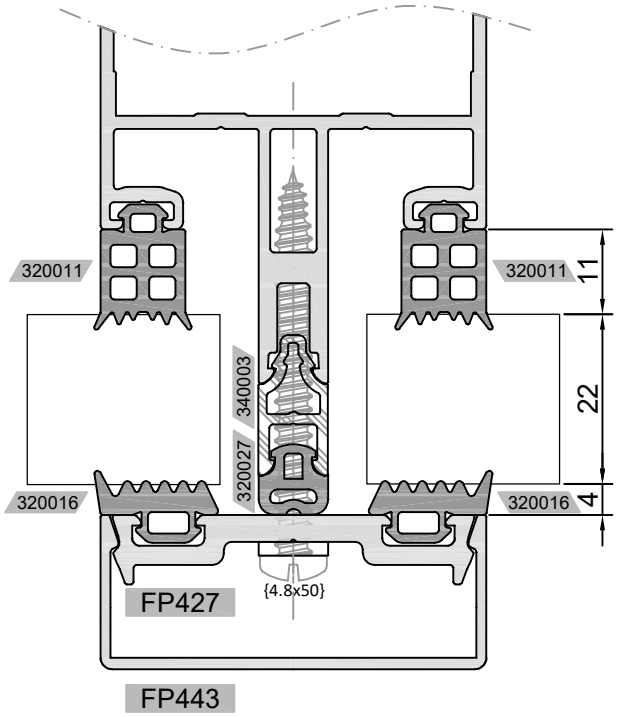


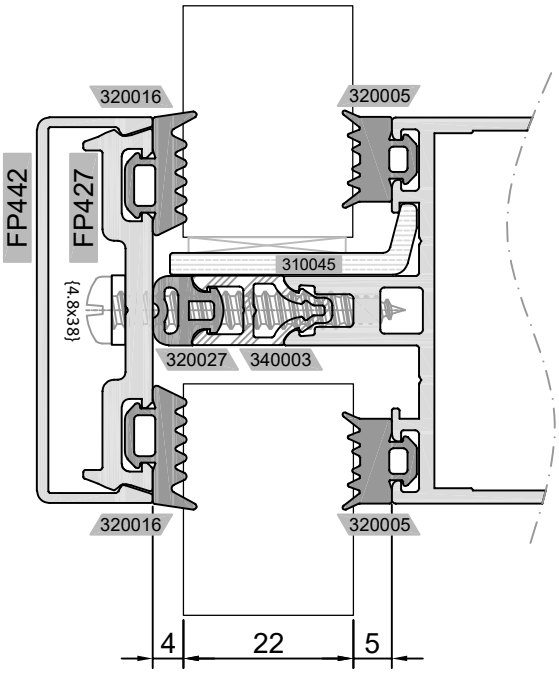


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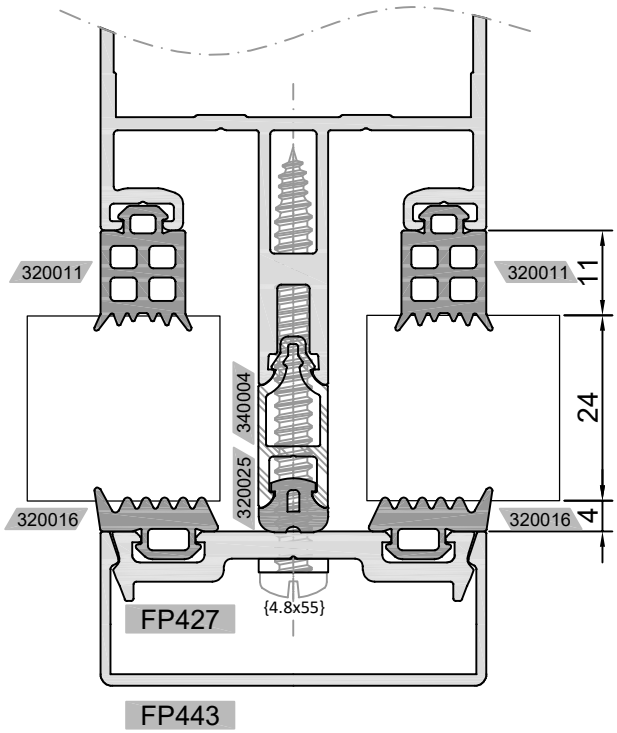
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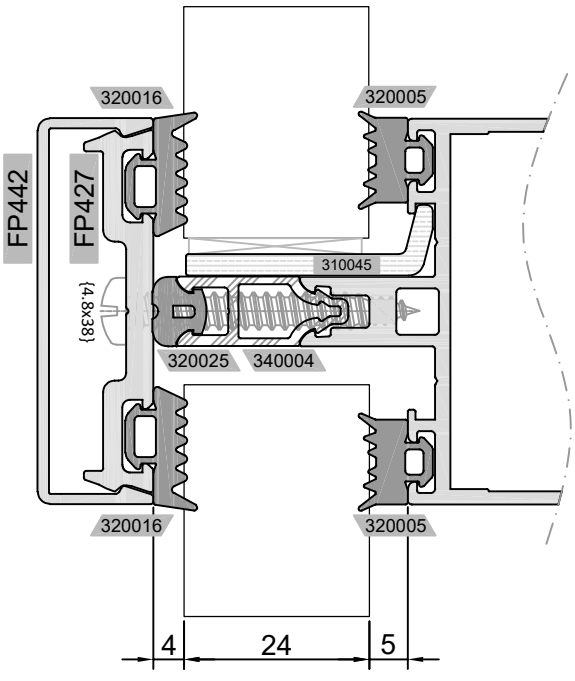
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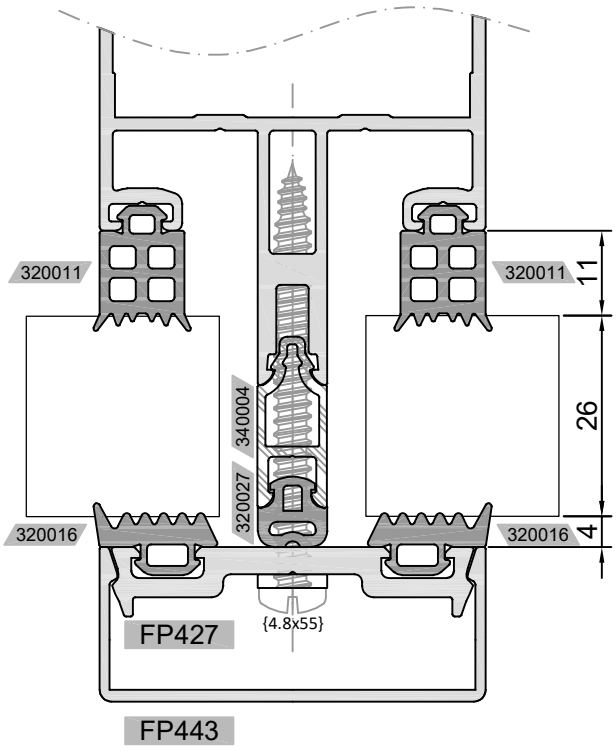
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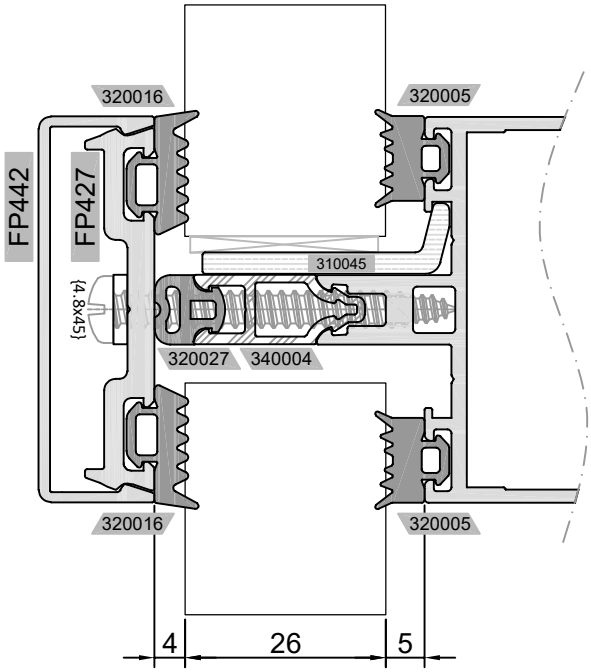




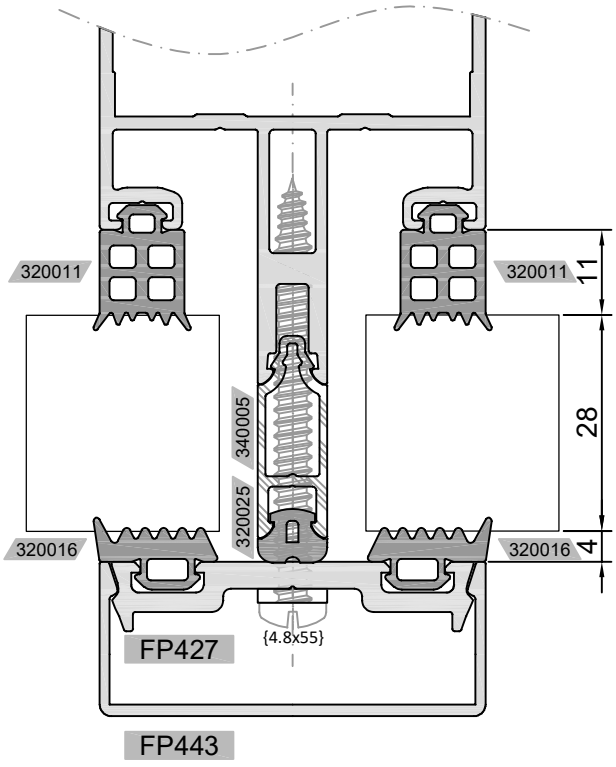
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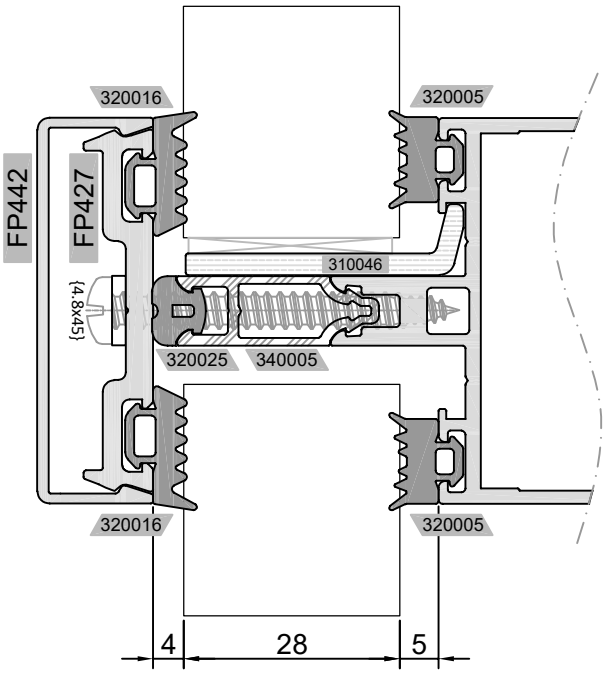
26mm





28mm

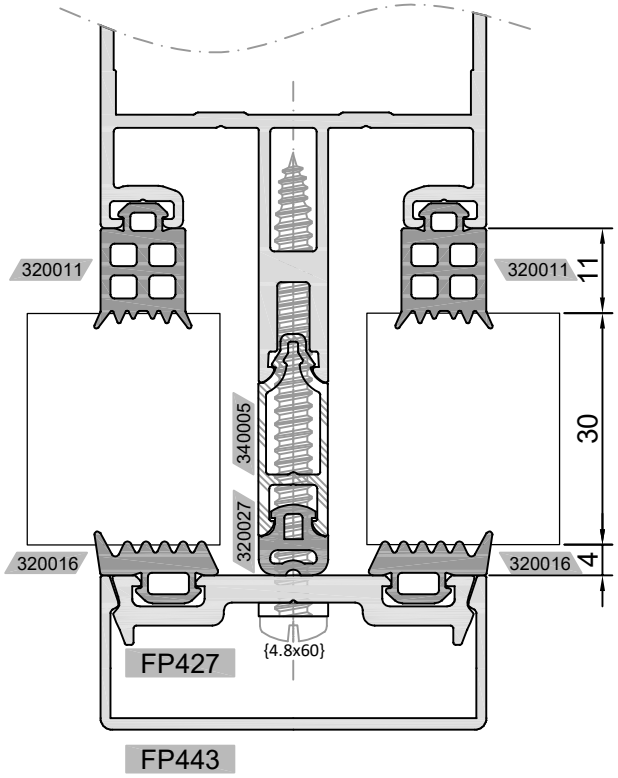


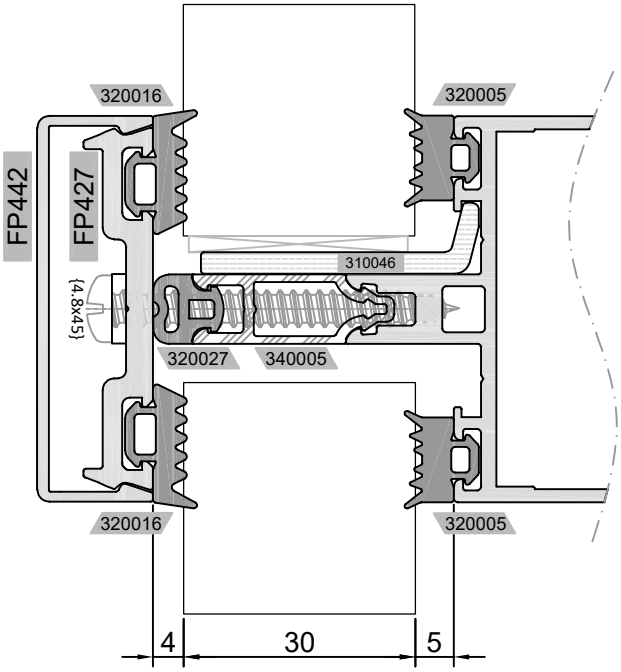


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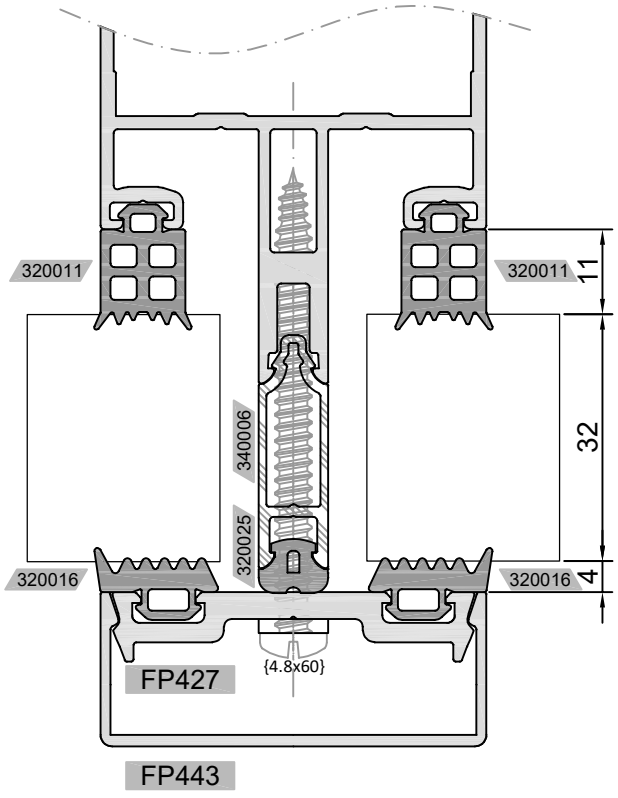
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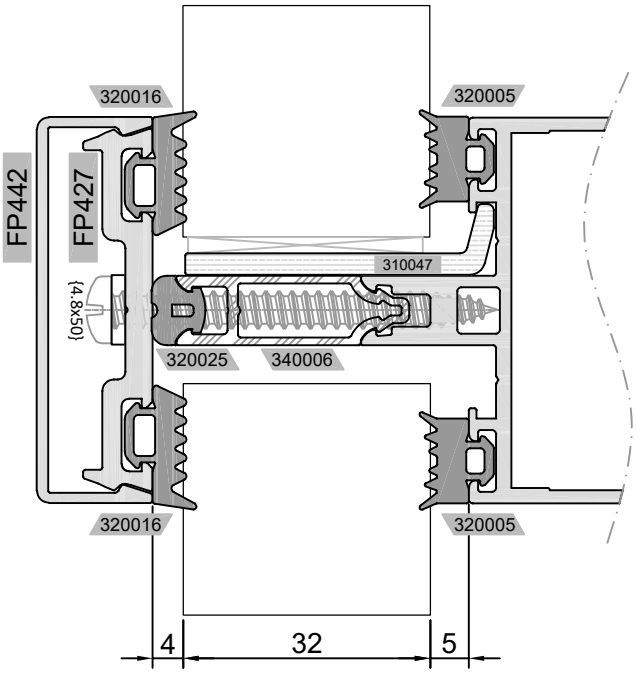
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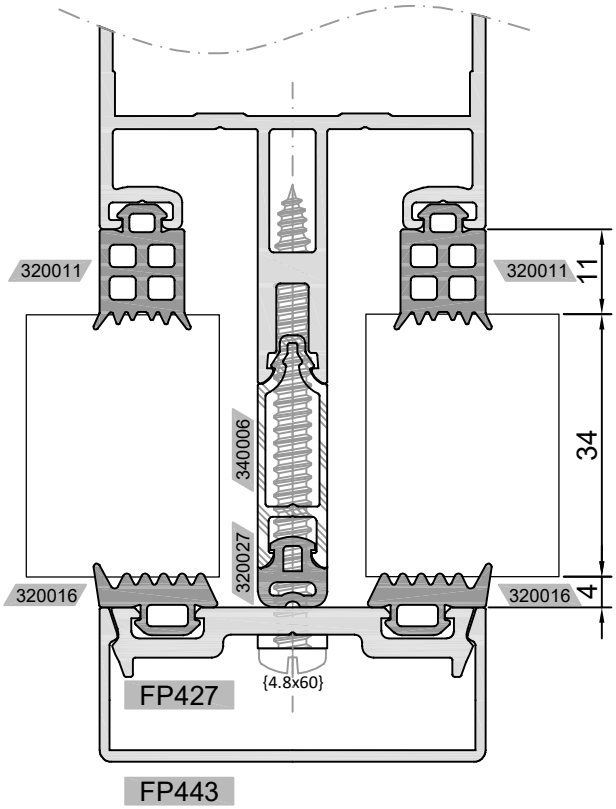
32mm

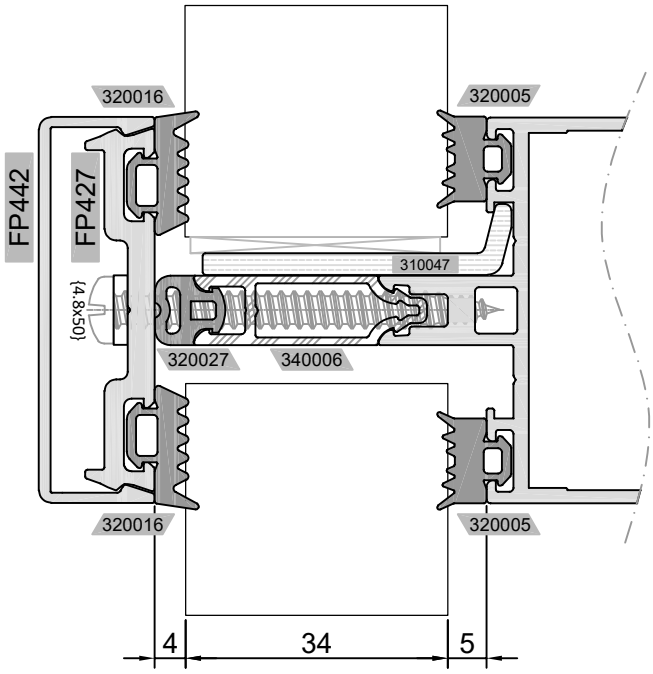




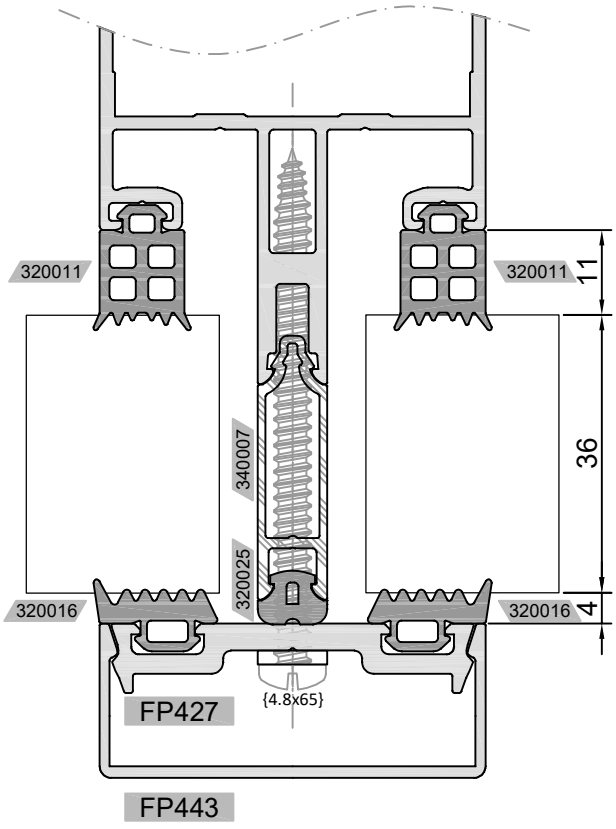
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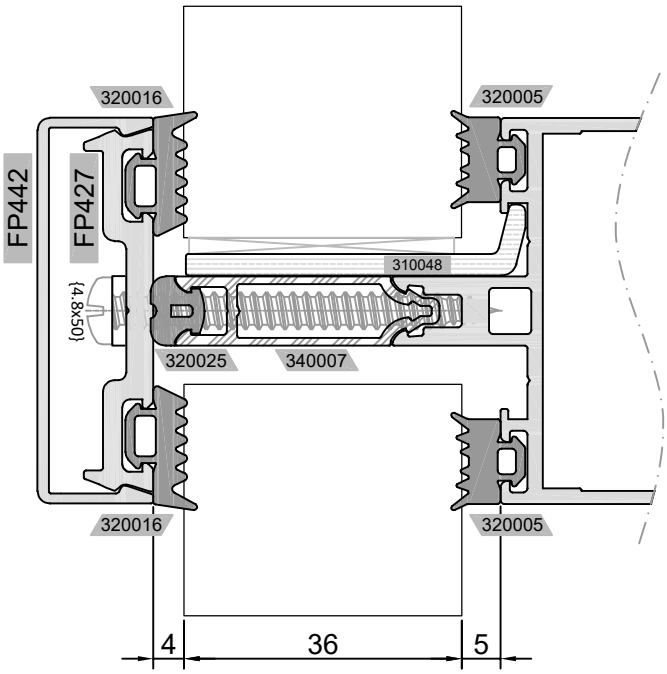
34mm





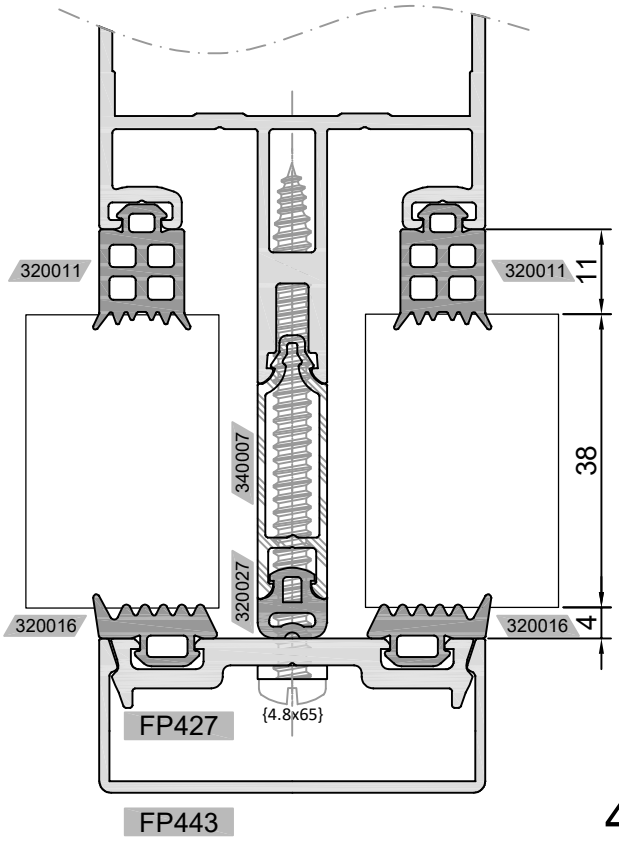
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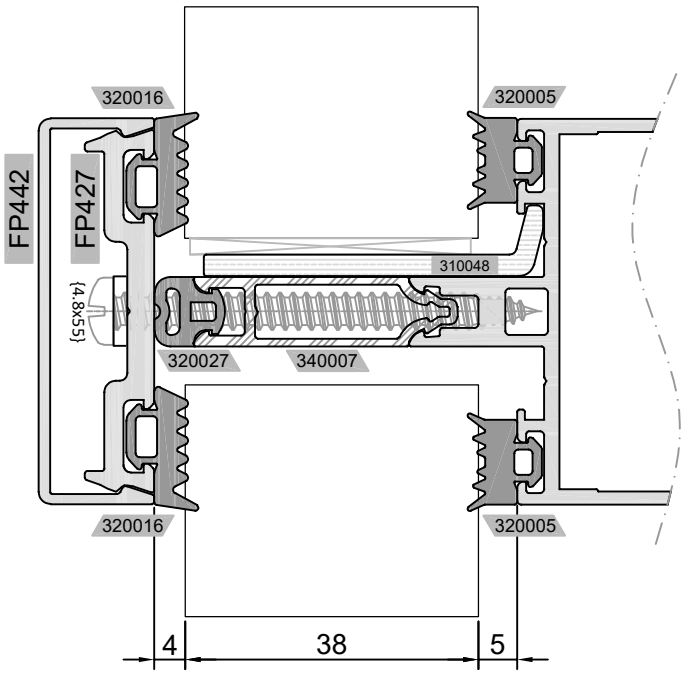




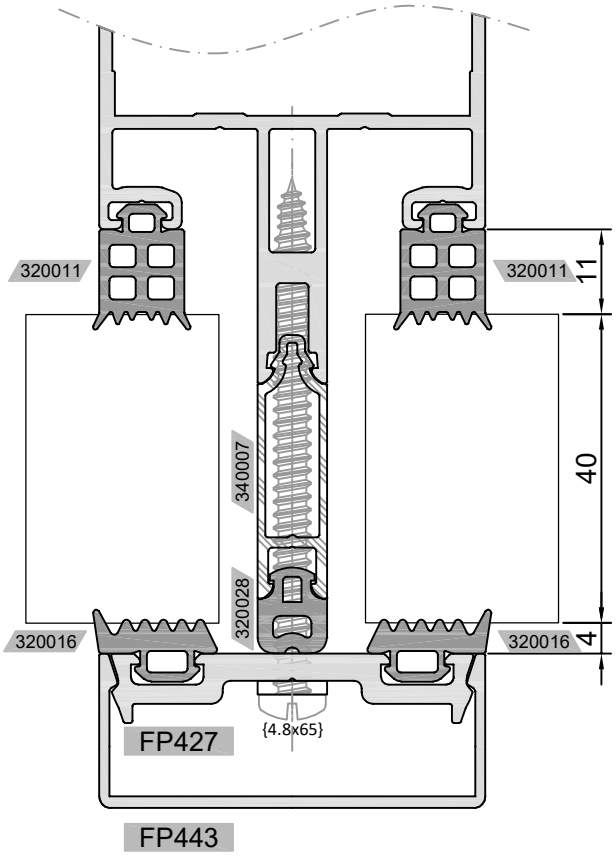
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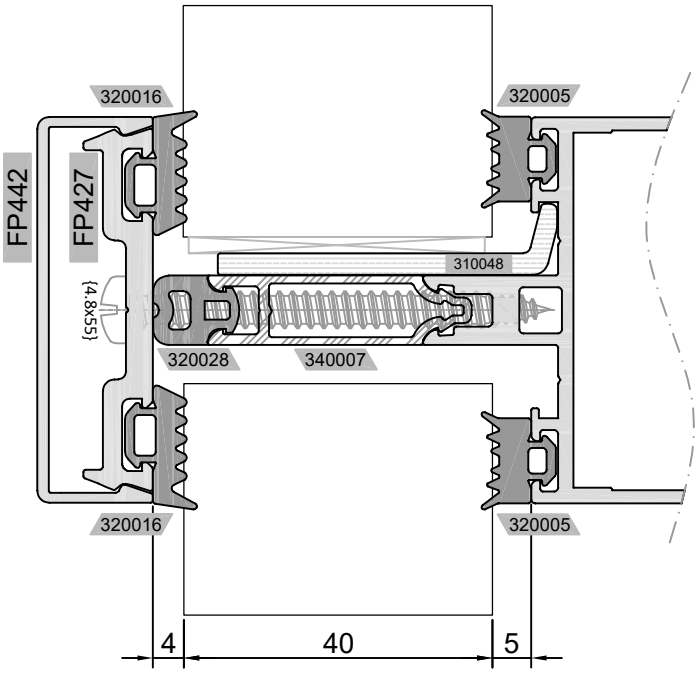
38mm





40mm





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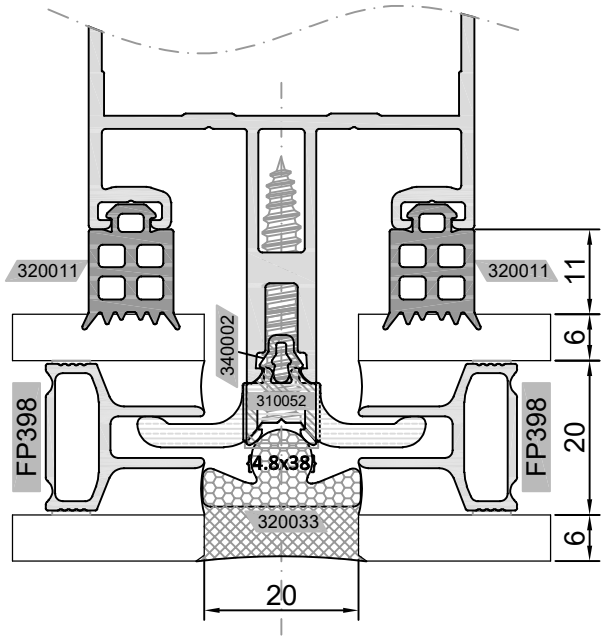
CAM KALINLIKLARINA GÖRE ENTEGRE SİSTEM DETAYLARI

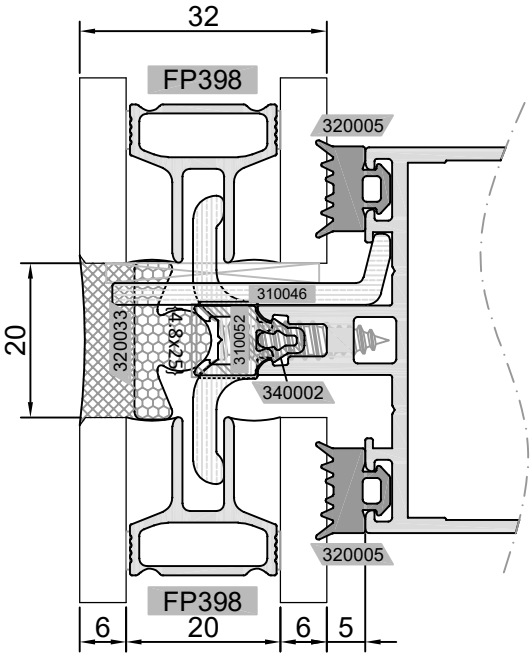
INTEGRATED CURTAIN WALL DETAILS ACCORDING TO THE GLASS THICKNESSES

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

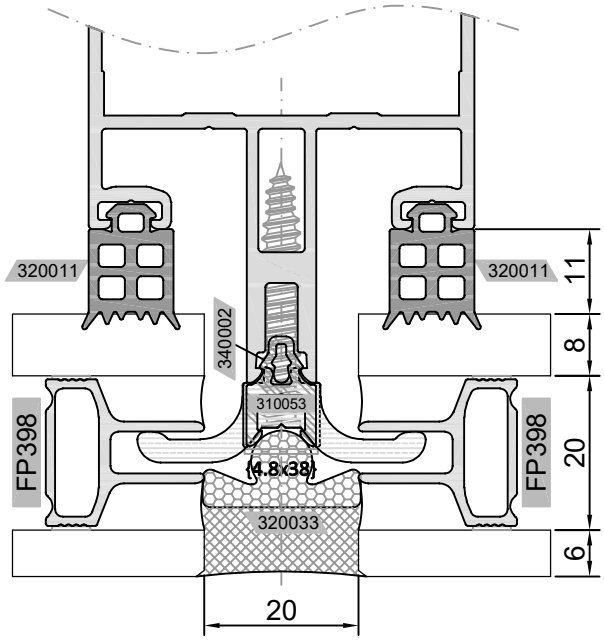
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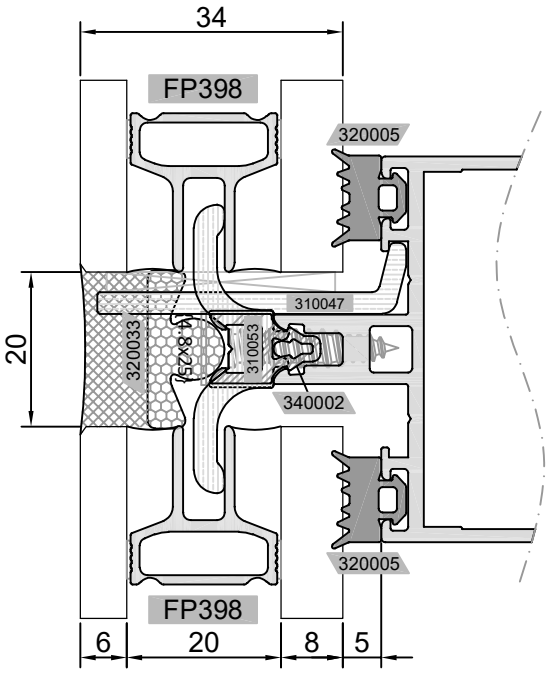
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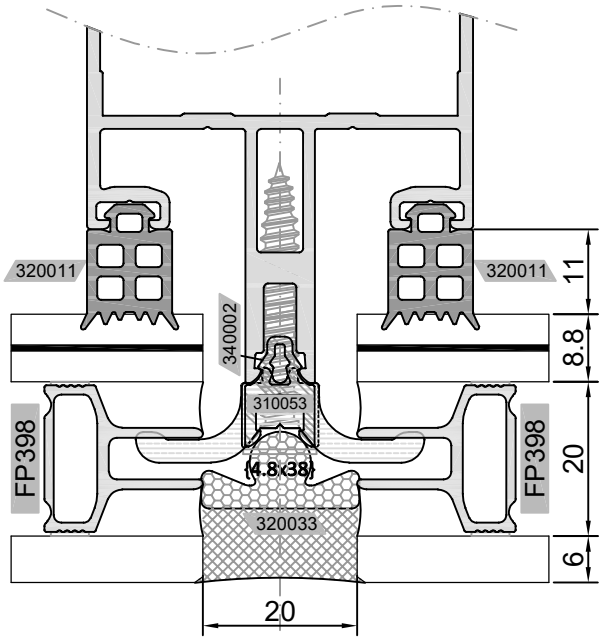
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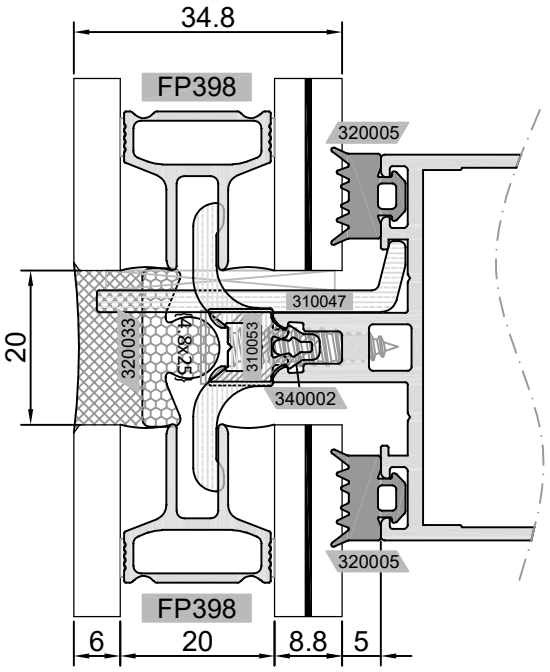




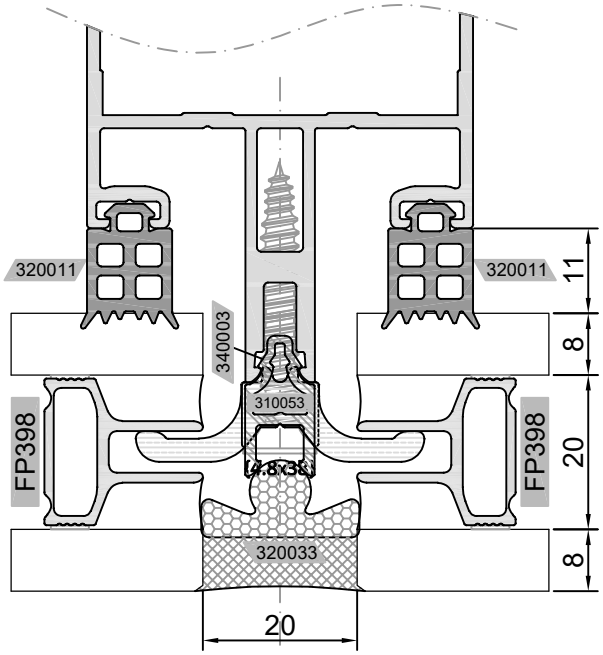
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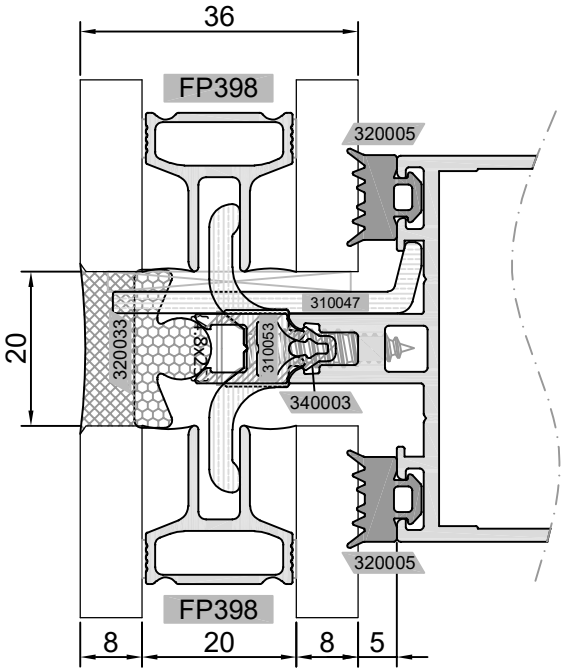
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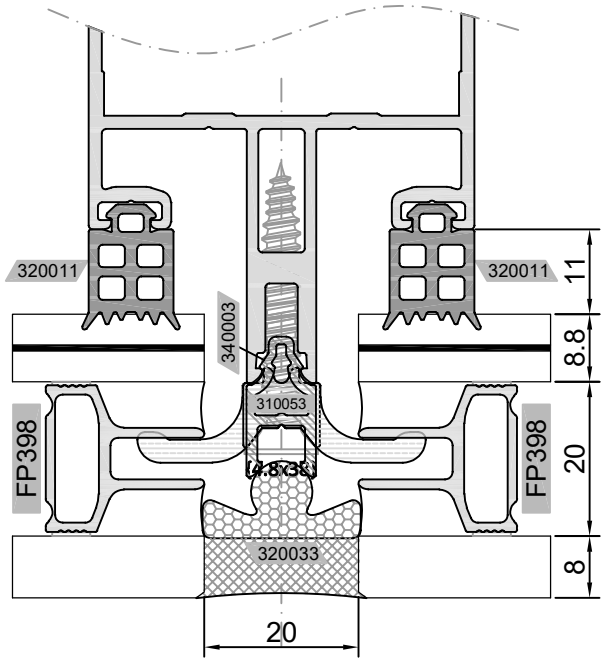
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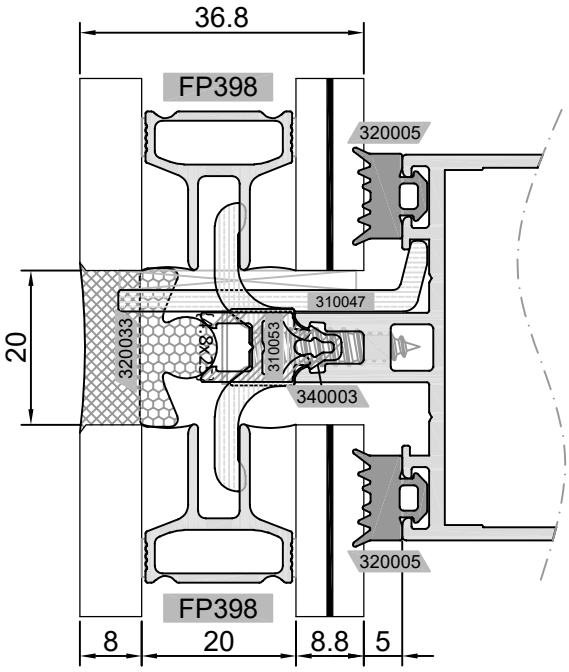




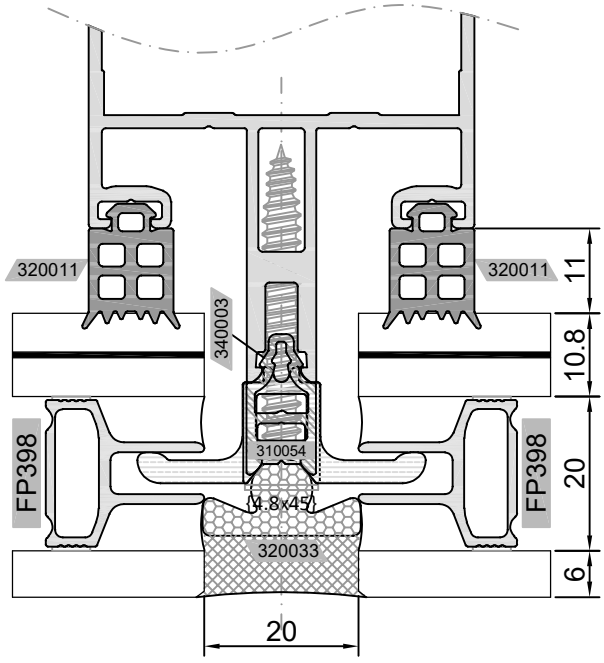
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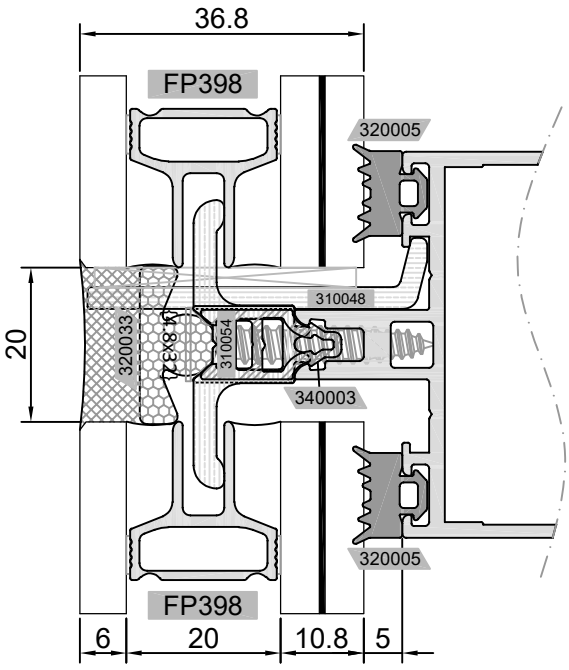
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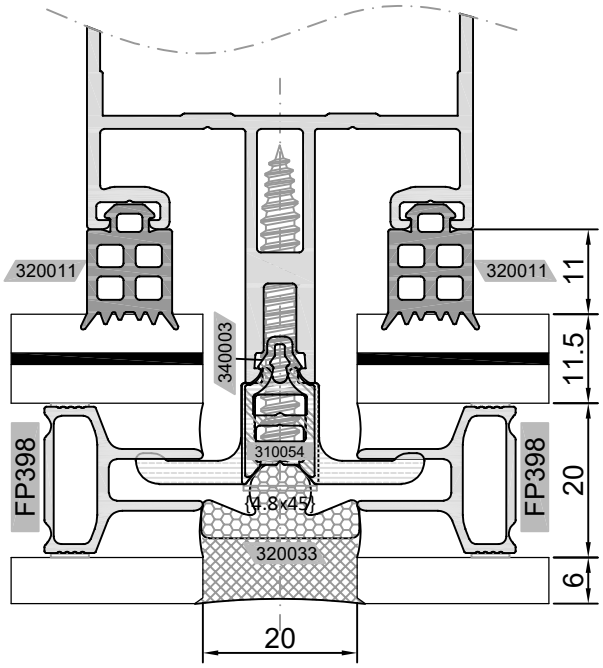
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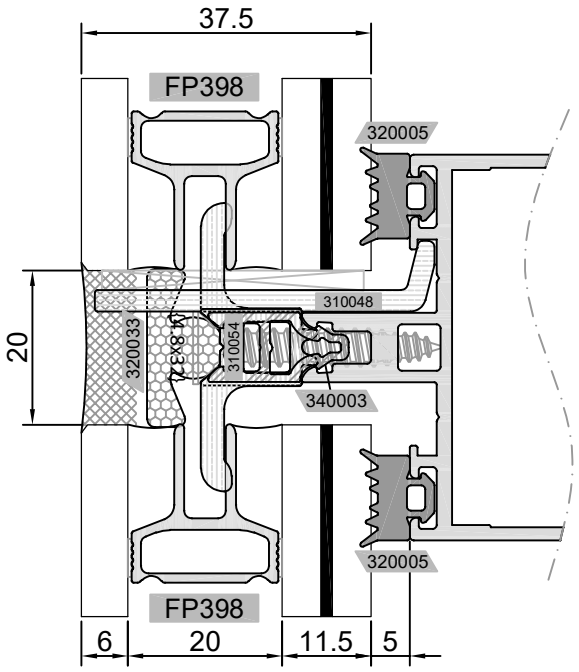




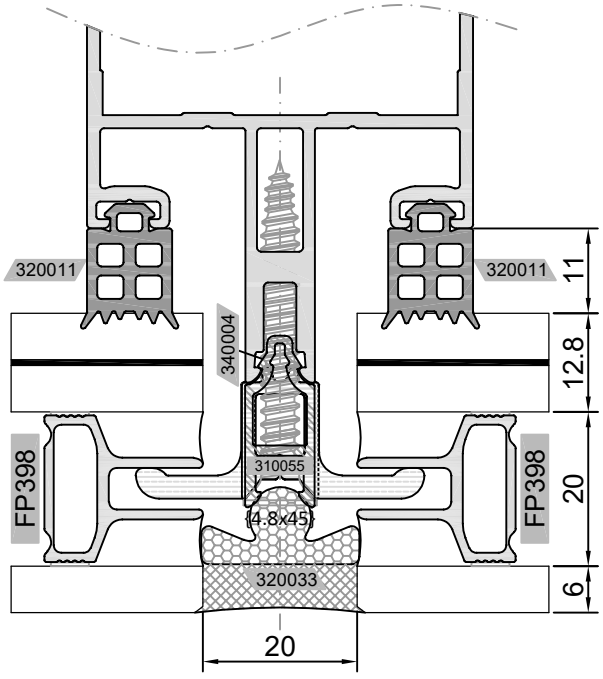
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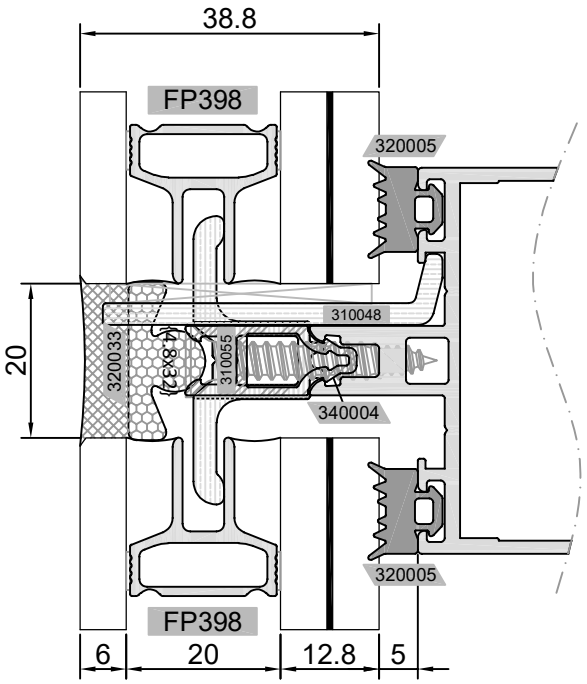
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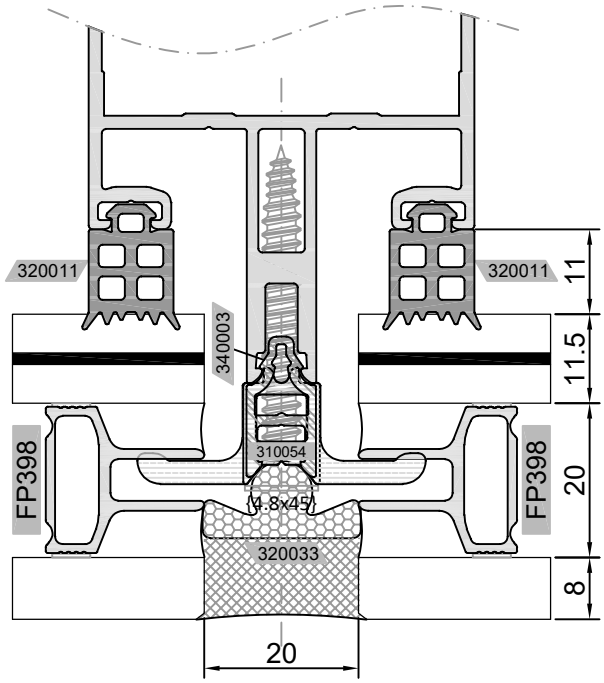
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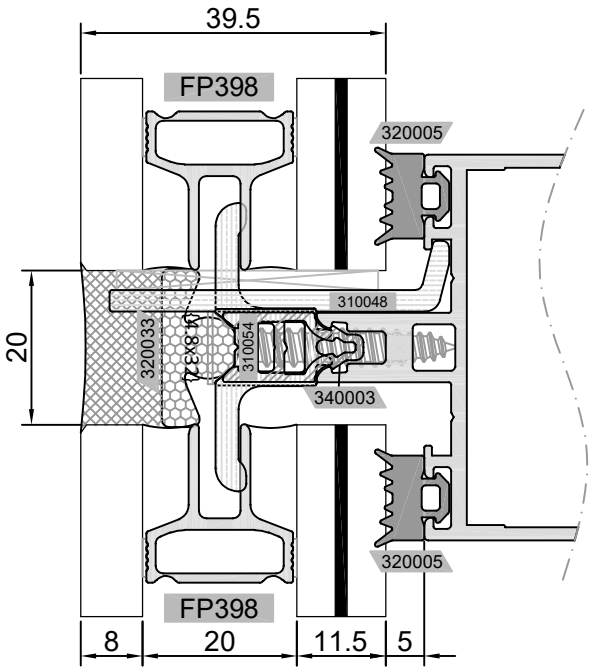




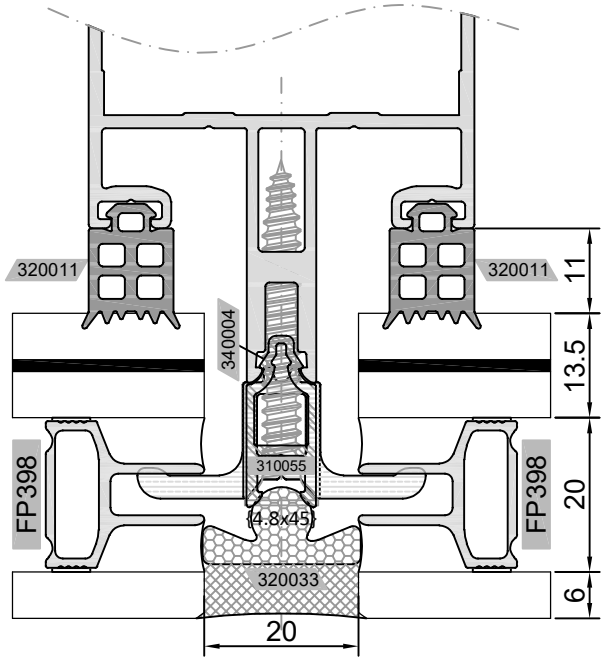
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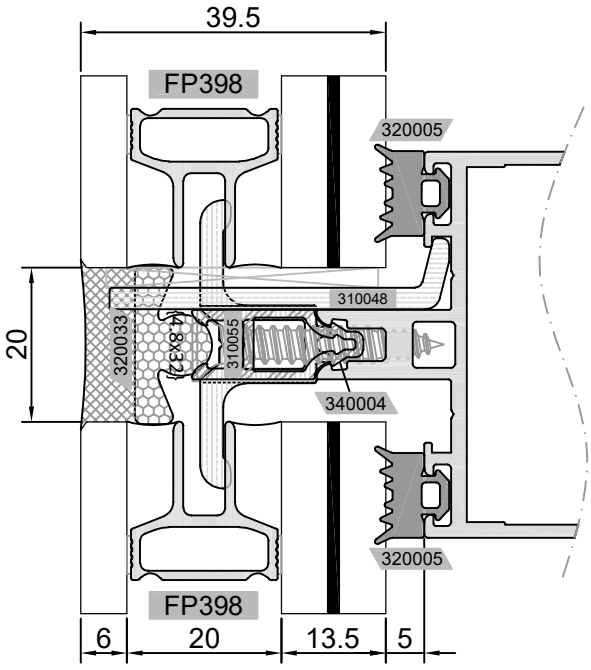
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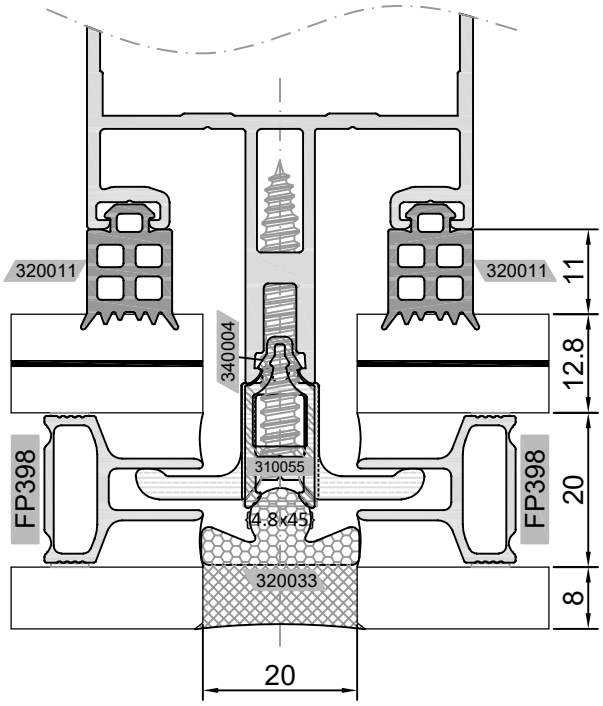
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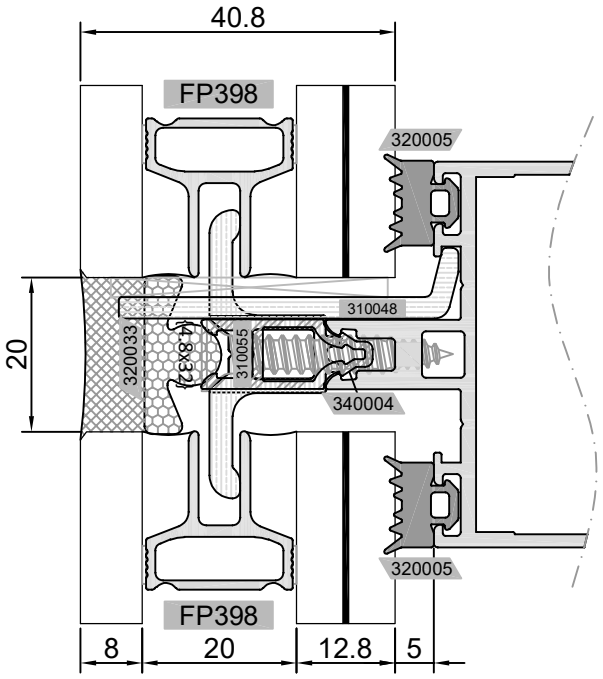




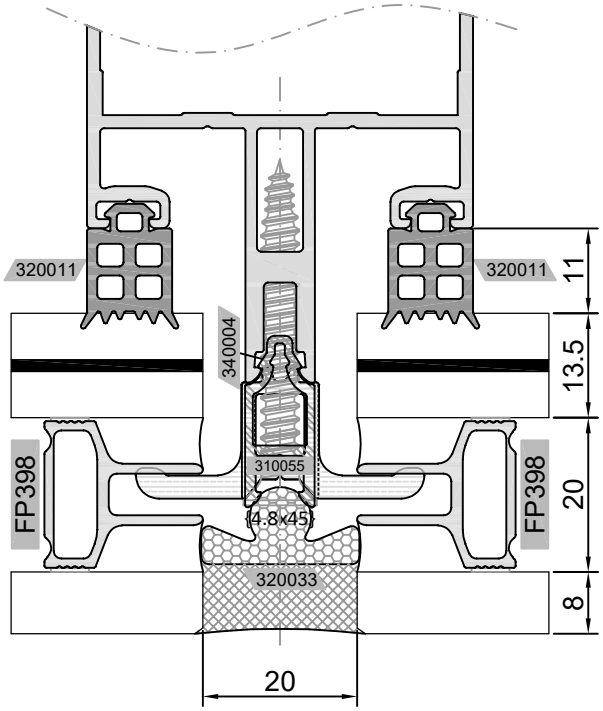
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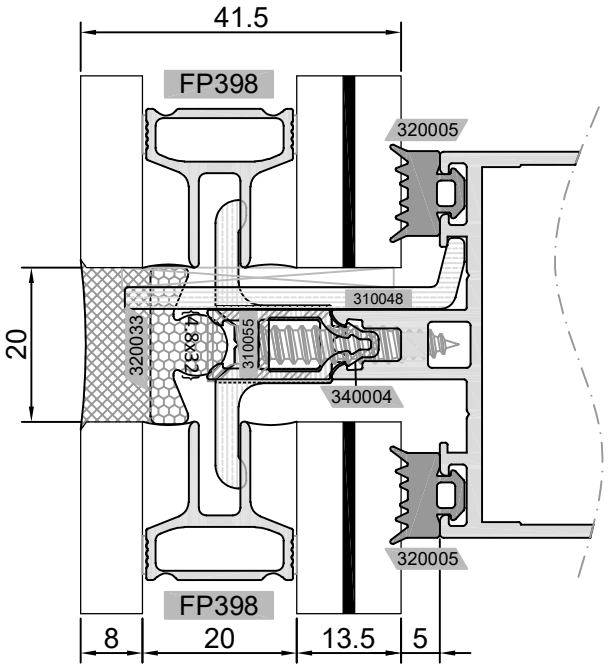
40,76mm





41,52mm





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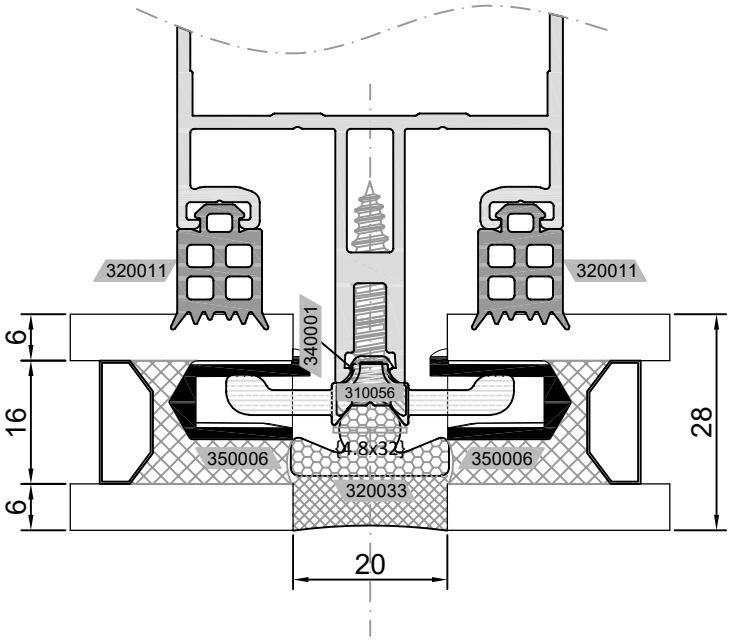
CAM KALINLIKLARINA GÖRE ENTEGRE SİSTEM DETAYLARI

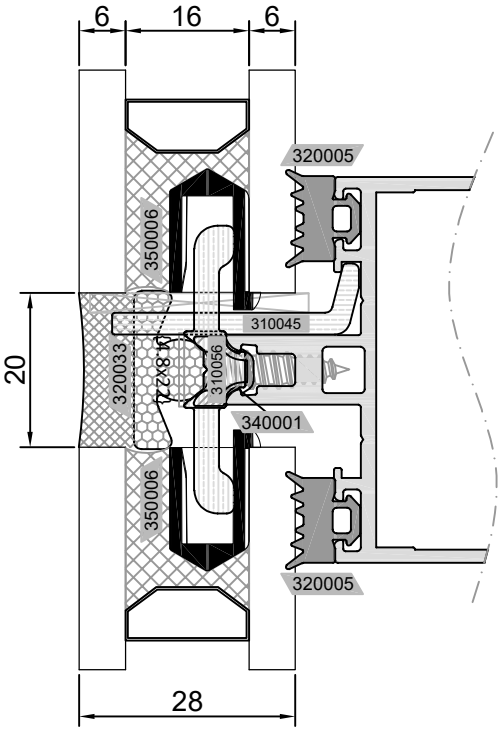
INTEGRATED CURTAIN WALL DETAILS ACCORDING TO THE GLASS THICKNESSES

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

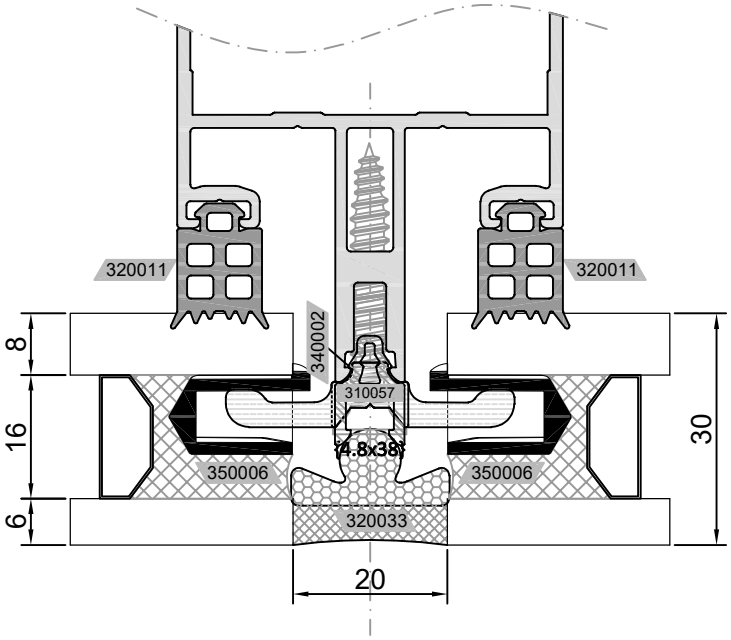
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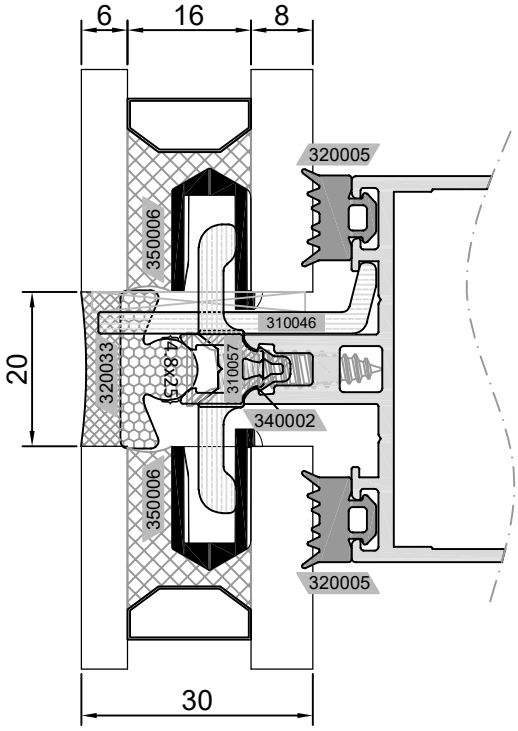
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30mm

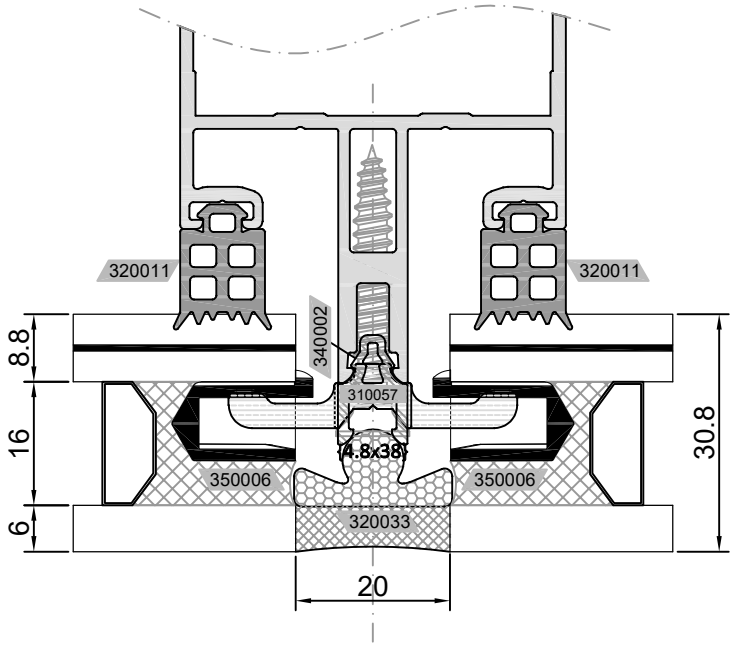


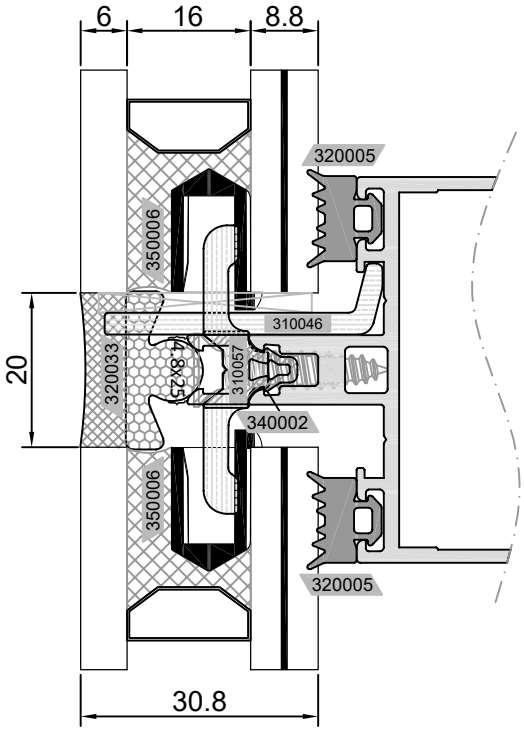


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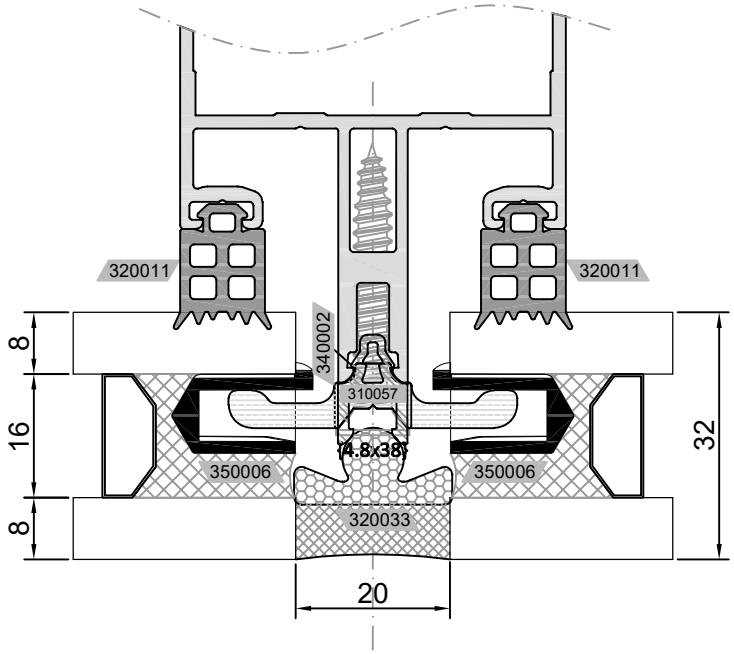
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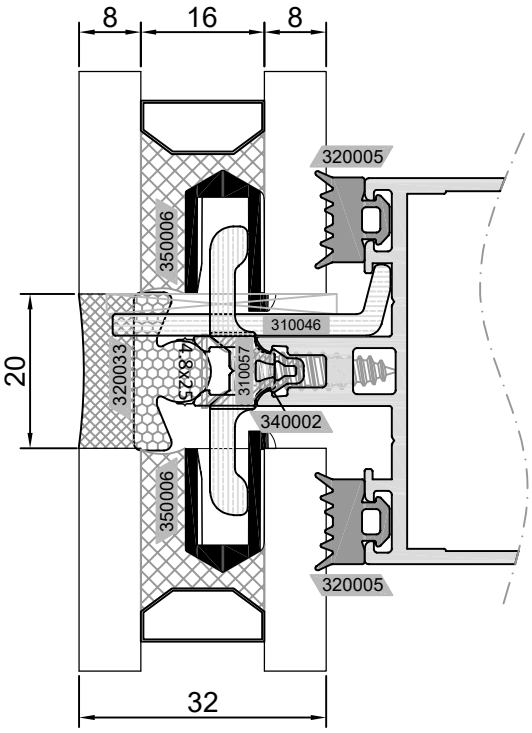
30,76mm





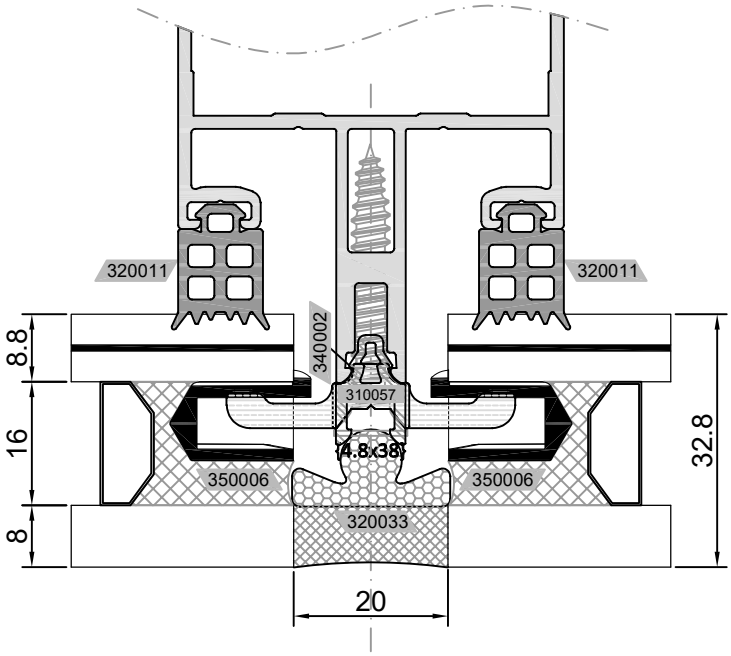
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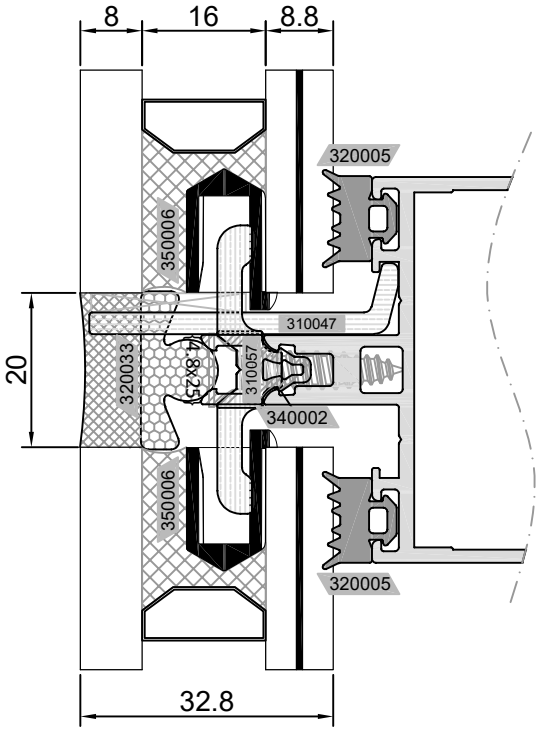




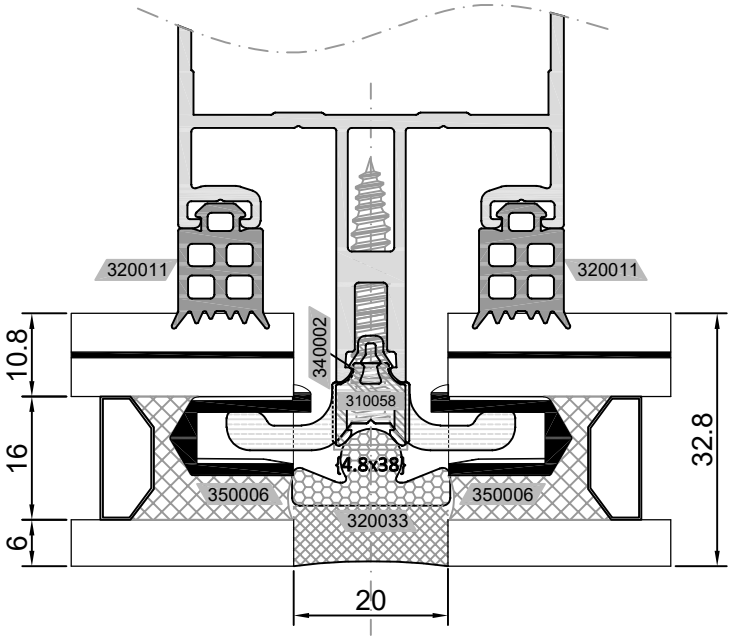
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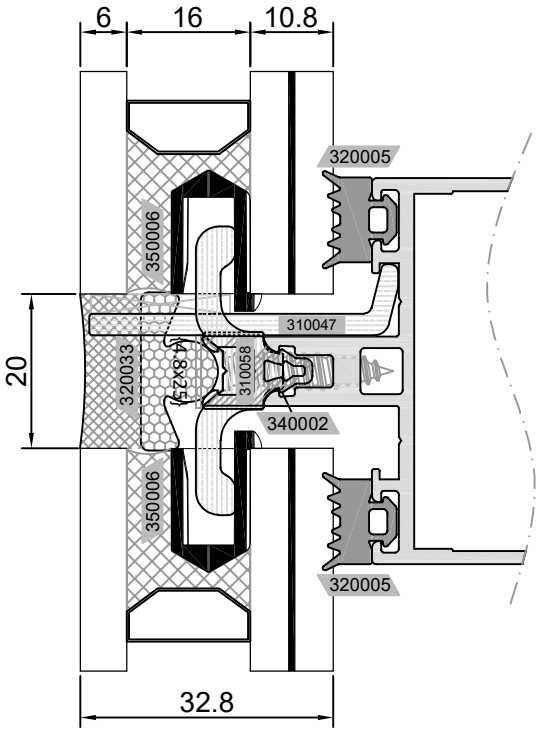
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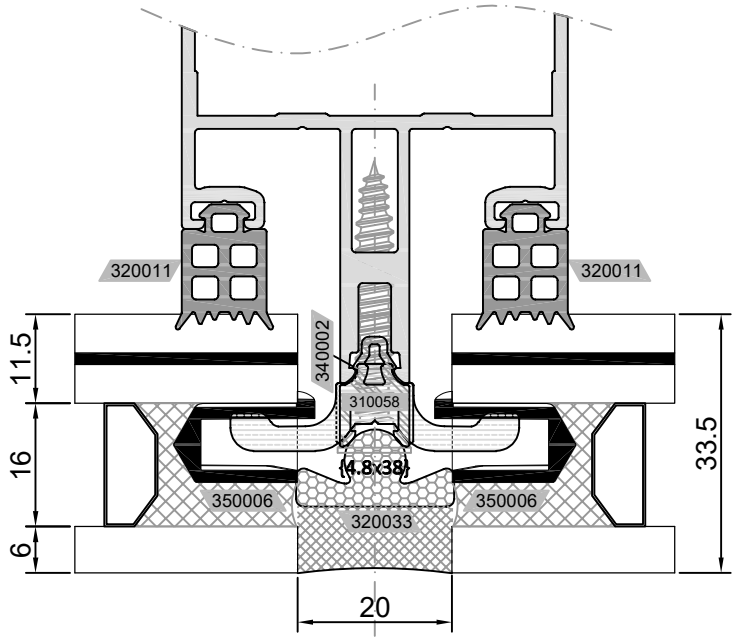
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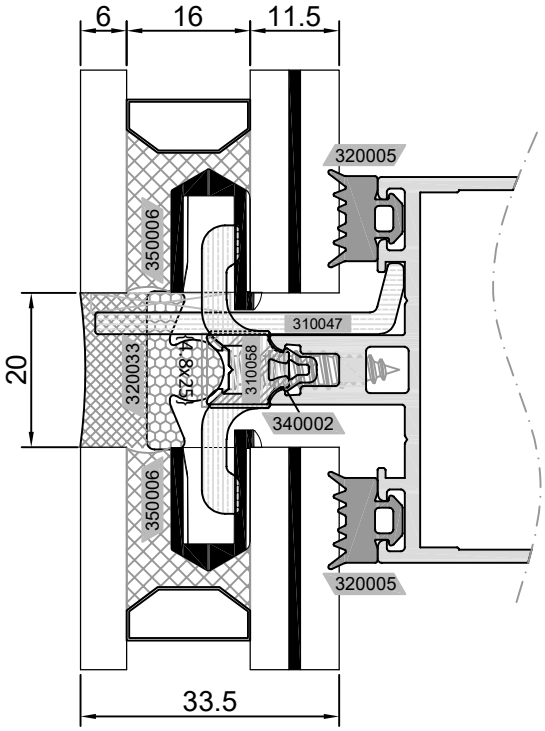




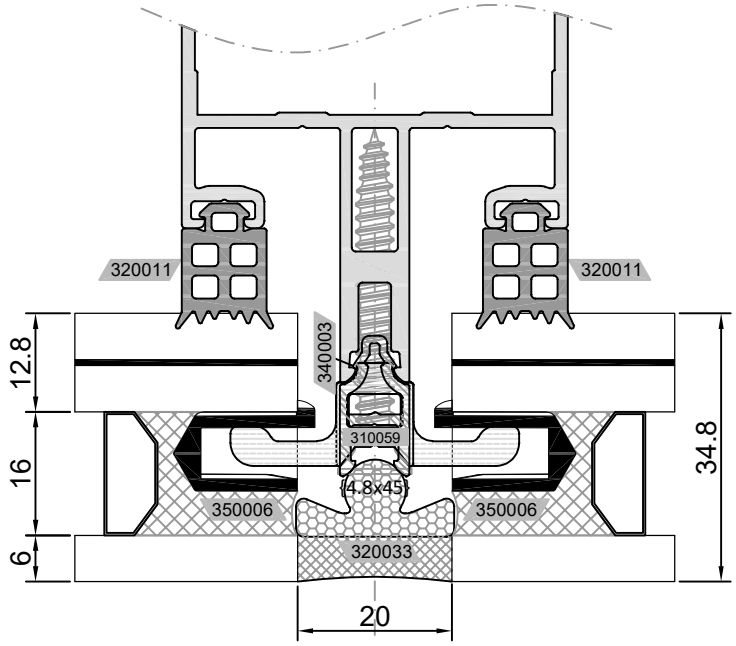
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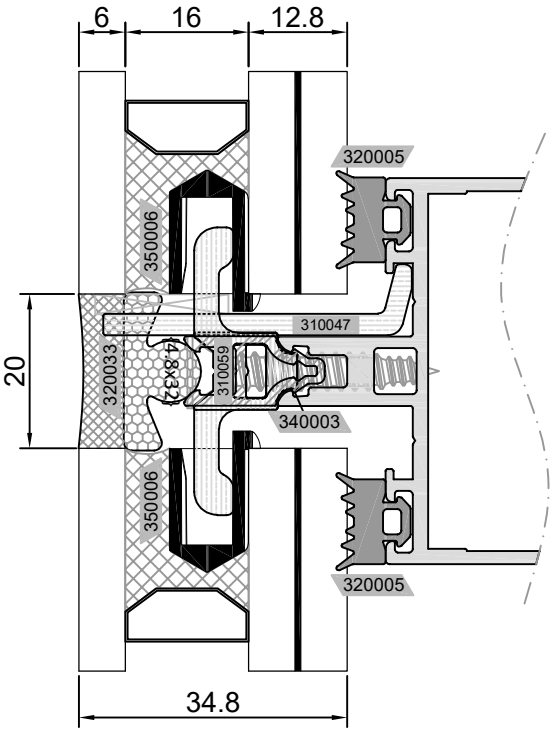
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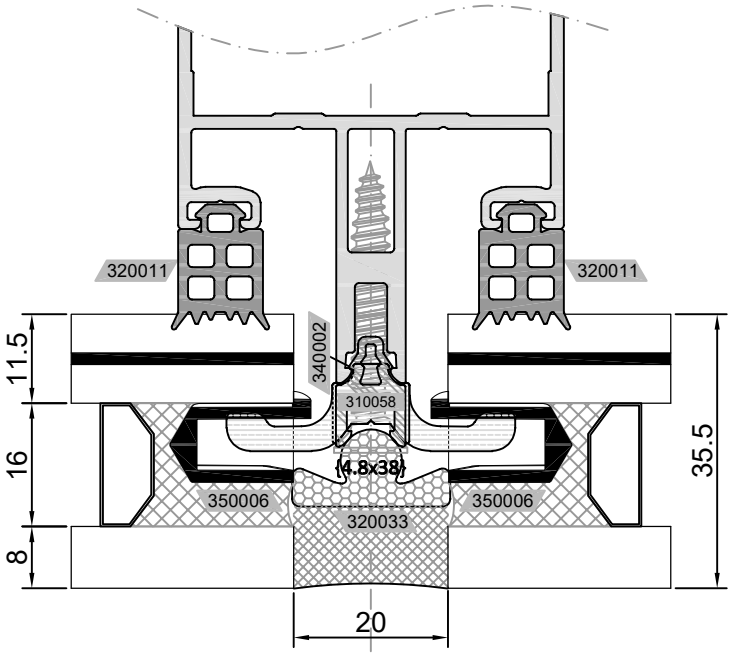
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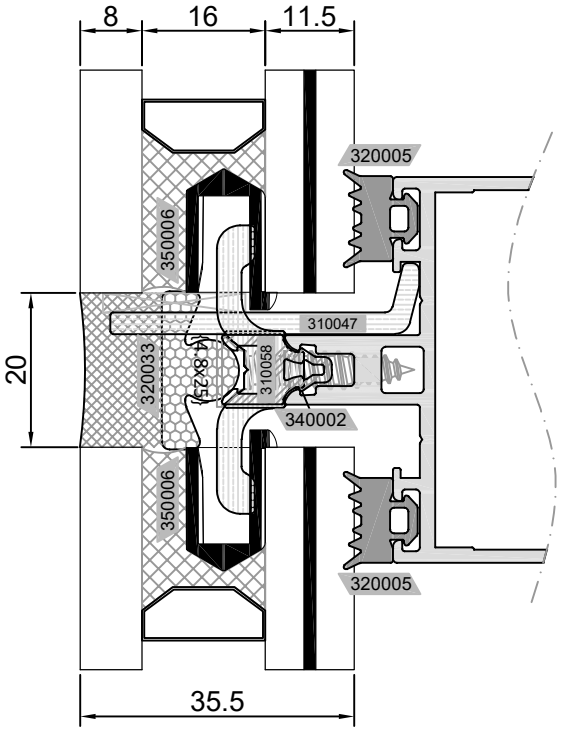




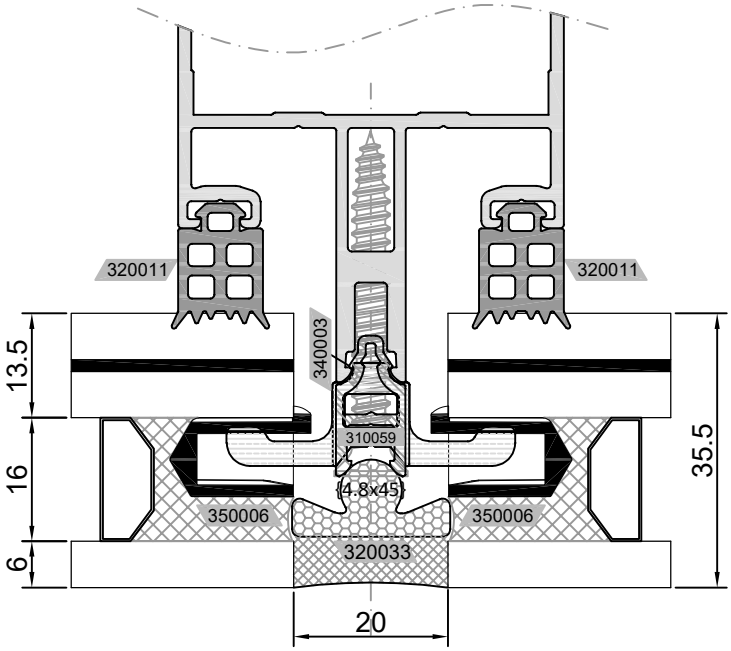
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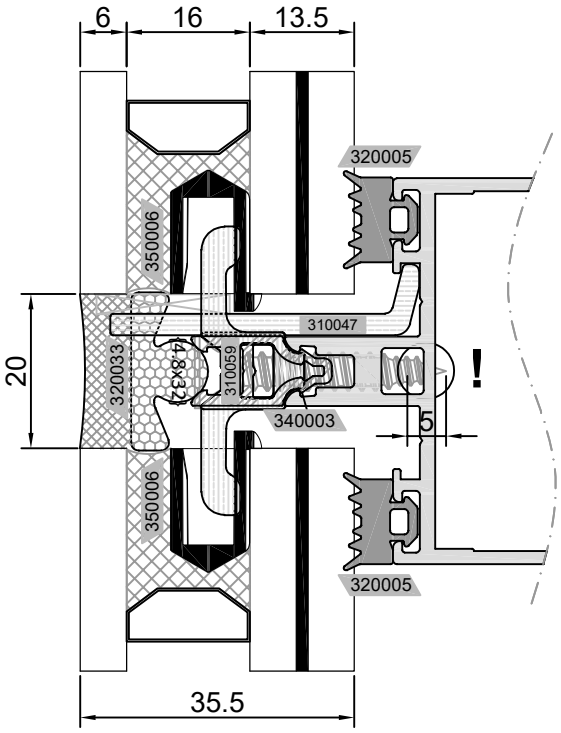
35,52mm





35,52mm



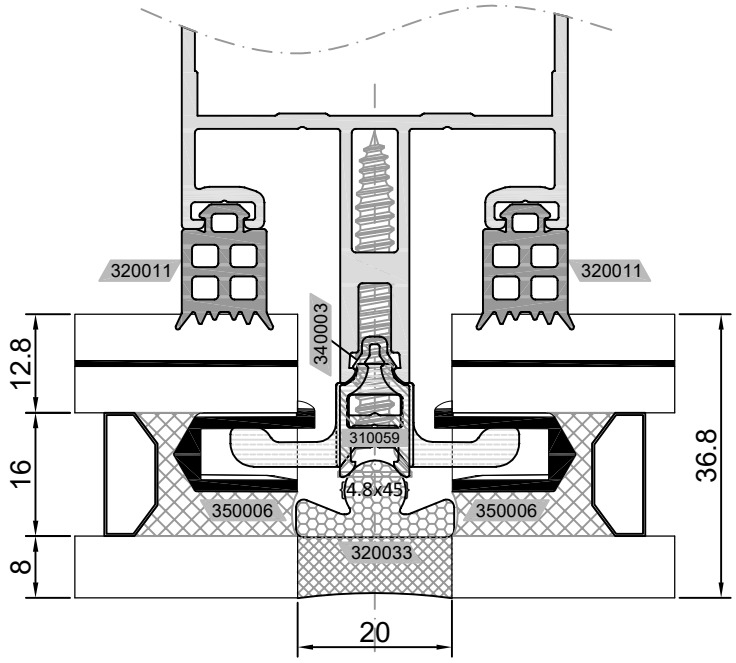


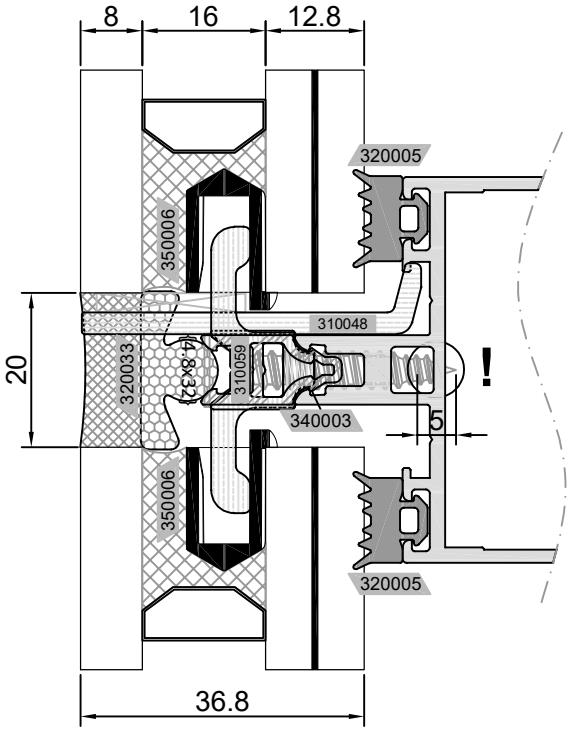
! Kertme / Notching

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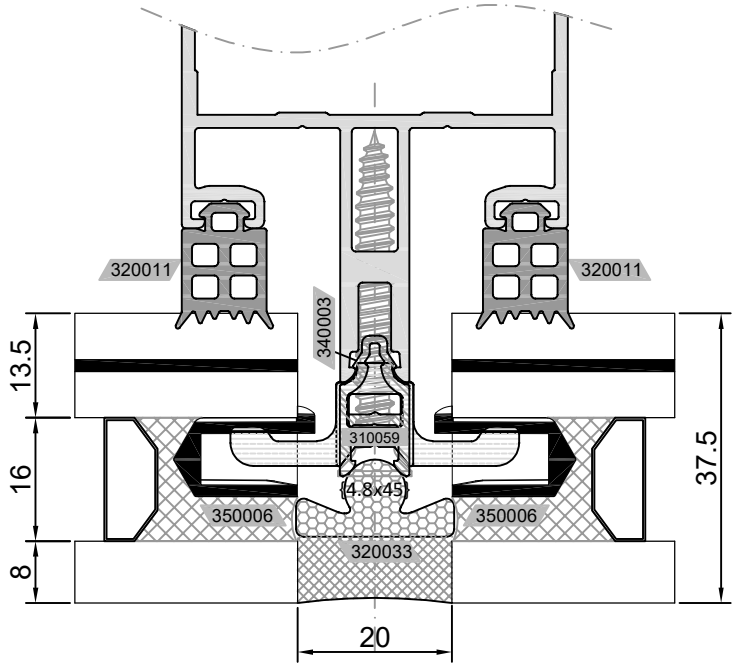
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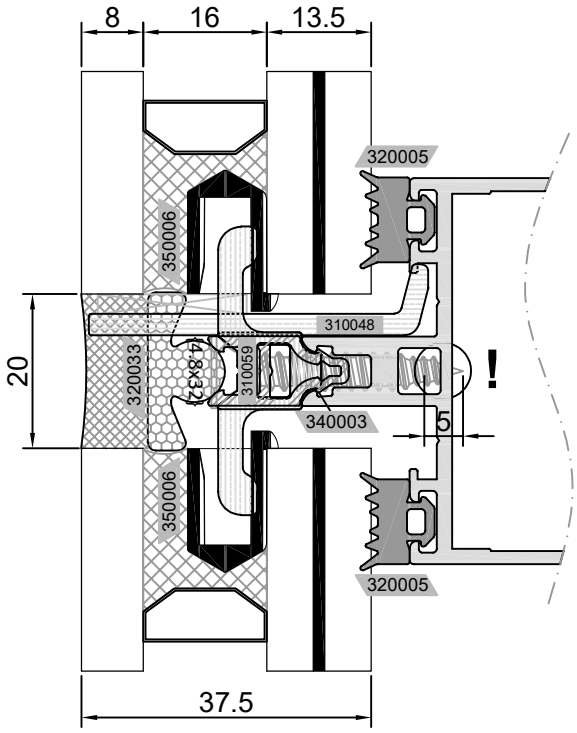




! Kertme / Notching

37,52mm





! Kertme / Notching

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ACCESSORY INDEX

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310002	KÖŞE TAKOZU - 11 mm / CORNER CLEAT	156
310003	KÖŞE TAKOZU - 13 mm / CORNER CLEAT	156
310004	KÖŞE TAKOZU - 44,9 mm / CORNER CLEAT	156
310005	KÖŞE TAKOZU - 21 mm / CORNER CLEAT	156
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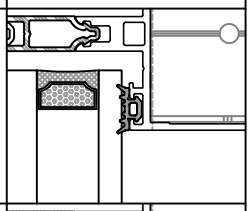
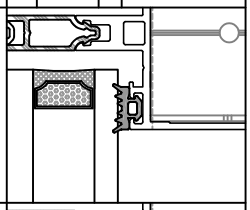
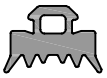
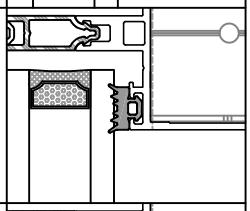
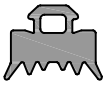
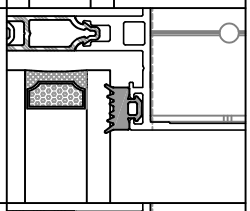
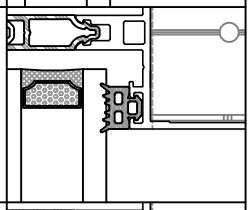
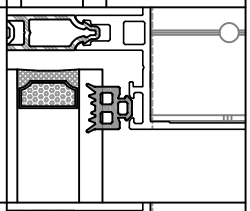
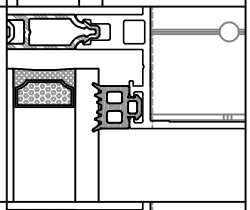
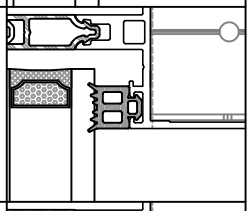
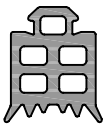
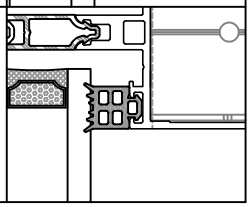
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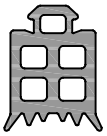
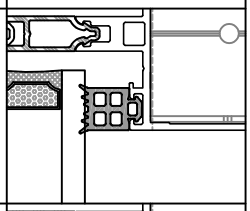
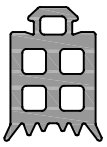
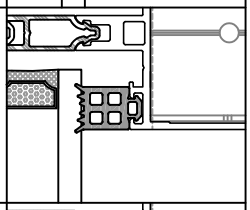
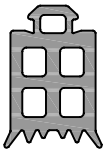
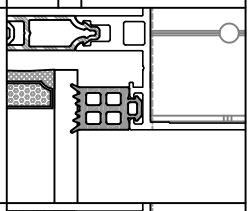
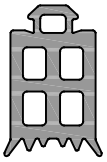
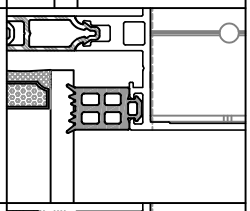
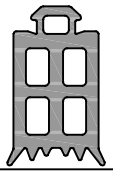
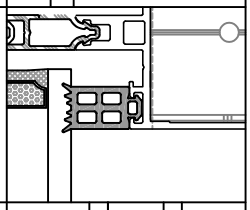
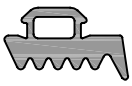
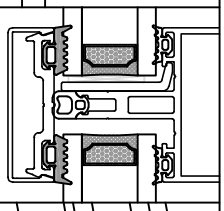
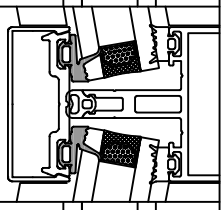
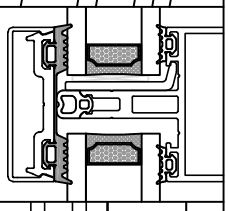
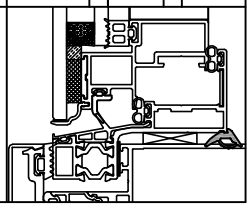
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EPDM FİTİLLER / EPDM GASKETS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	ÇİZİM / 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: 221 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: 82 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 183 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*		

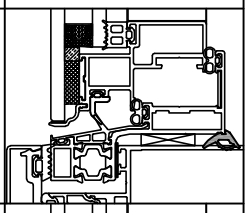
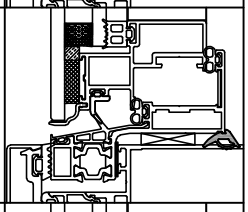
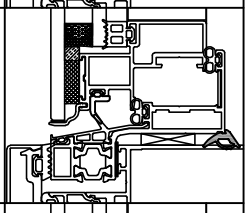
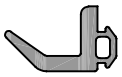
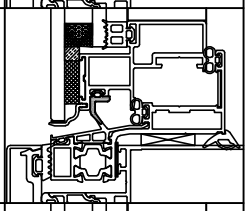
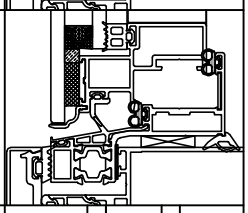
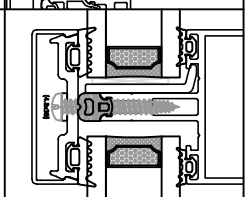
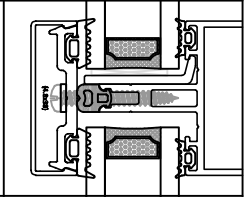
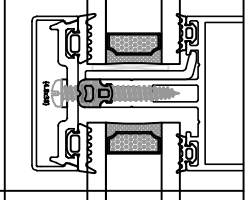
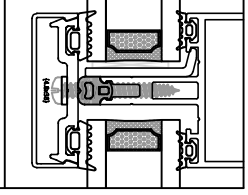
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EPDM FİTİLLER / EPDM GASKETS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	ÇİZİM / DRAWING	TAKILMA BÖLGESİ / APPLICATION AREA
320011 *İÇ BİNİ FİTİLİ 11 mm / INNER STEP GASKET 11 mm* *BİRİM AĞIRLIK / UNIT WEIGHT: 125 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 120 m*		
320012 *İÇ BİNİ FİTİLİ 12 mm / INNER STEP GASKET 12 mm* *BİRİM AĞIRLIK / UNIT WEIGHT: 141 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 107 m*		
320013 *İÇ BİNİ FİTİLİ 13 mm / INNER STEP GASKET 13 mm* *BİRİM AĞIRLIK / UNIT WEIGHT: 148 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 101 m*		
320014 *İÇ BİNİ FİTİLİ 14 mm / INNER STEP GASKET 14 mm* *BİRİM AĞIRLIK / UNIT WEIGHT: 158 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 95 m*		
320015 *İÇ BİNİ FİTİLİ 15 mm / INNER STEP GASKET 15 mm* *BİRİM AĞIRLIK / UNIT WEIGHT: 165 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY:91 m*		
320016 *DIŞ BİNİ FİTİLİ 4 mm / OUTER STEP GASKET 4 mm* *BİRİM AĞIRLIK / UNIT WEIGHT: 88 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 171 m*		
320017 *AÇILI DIŞ CAM FİTİLİ / ANGULAR OUTER STEP GASKET* *BİRİM AĞIRLIK / UNIT WEIGHT: 91 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 165 m*		
320018 *YEKPARE DIŞ BİNİ FİTİLİ / ONE PIECE STEP GASKET* *BİRİM AĞIRLIK / UNIT WEIGHT: 194 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 77 m*		
320019 *KAMA FİTİLİ 3 mm / GLAZING SUPPORT GASKET 3 mm* *BİRİM AĞIRLIK / UNIT WEIGHT: 41 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 366 m*		

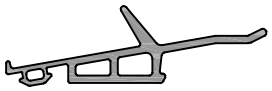
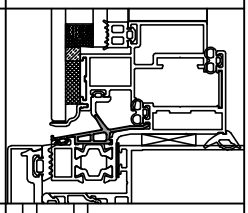
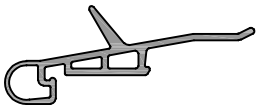
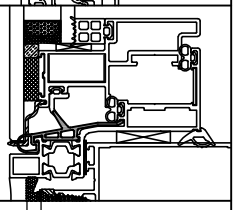
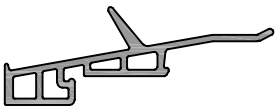
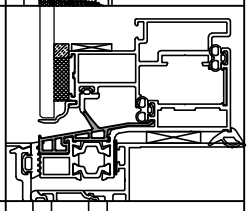
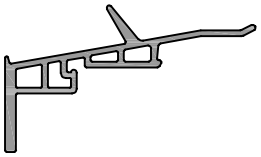
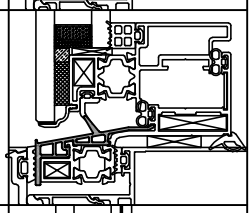
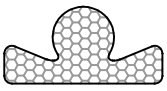
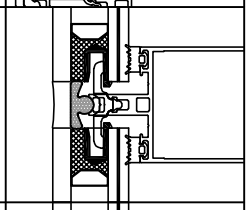
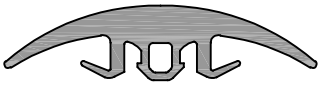
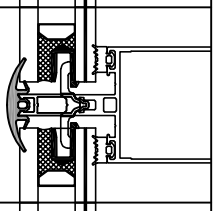
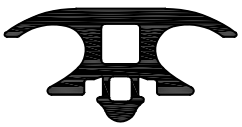
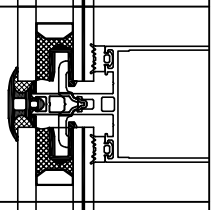
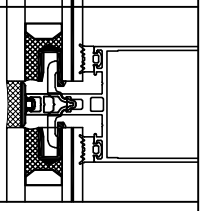
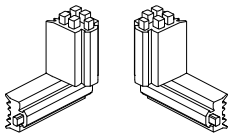
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EPDM FİTİLLER / EPDM GASKETS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	ÇİZİM / 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: 169 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: 47 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 318 m*		
320025 *TAŞIYICI ÖN FİTİL 3mm / MULLION FRONT GASKET 3mm* *BİRİM AĞIRLIK / UNIT WEIGHT: 54 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 275 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: 60 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 248 m*		
320028 *TAŞIYICI ÖN FİTİL 7mm / MULLION FRONT GASKET 7mm* *BİRİM AĞIRLIK / UNIT WEIGHT: 80 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 187 m*		

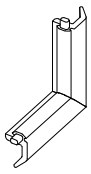
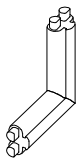
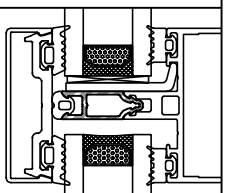
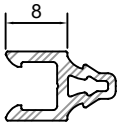
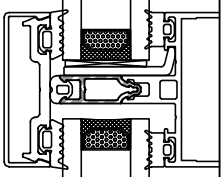
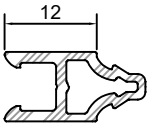
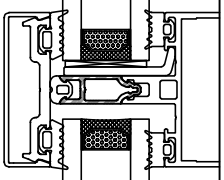
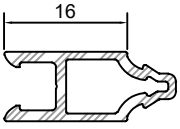
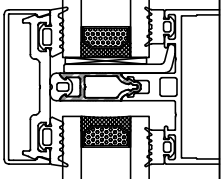
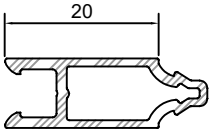
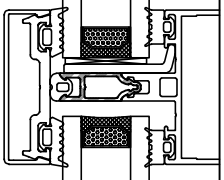
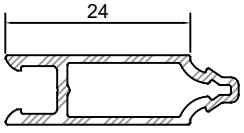
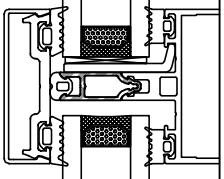
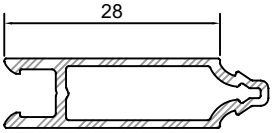
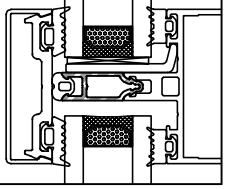
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Profile weights at the catalogue are theoretical, pre-shipment values will be valid.
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EPDM FİTİLLER / EPDM GASKETS

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 FİTİL / POLYETHYLENE SEAM GASKET* *BİRİM AĞIRLIK / UNIT WEIGHT: 2 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 1647 m*		
320034 *İÇ MEKAN DERZ KAPATMA FİTİLİ / INSIDE SEAM GASKET* *BİRİM AĞIRLIK / UNIT WEIGHT: 204 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 74 m*		
320035 *SİLİKON DERZ KAPATMA FİTİLİ / SILICONE SEAM GASKET* *BİRİM AĞIRLIK / UNIT WEIGHT: 201 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 75 m*		
320057 *SİLİKON DERZ KAPATMA FİTİLİ / SILICONE SEAM GASKET* *BİRİM AĞIRLIK / UNIT WEIGHT: 70 g/m* *KOLİ MİKTARI / PACKAGE QUANTITY: 214 m*		
330001 *VULKANİZE KÖŞE PARÇASI / VULCANISED CORNER PIECE* *İLİŞKİLİ FİTİLLER / RELATED GASKETS: 320005 & 320011*		

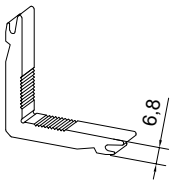
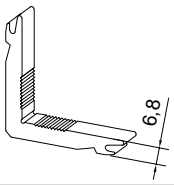
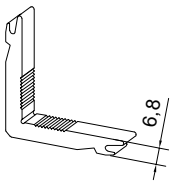
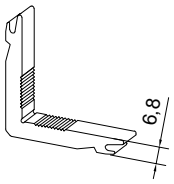
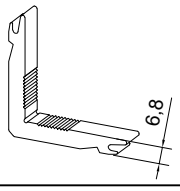
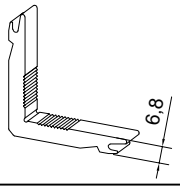
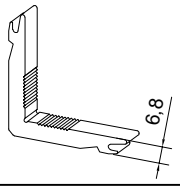
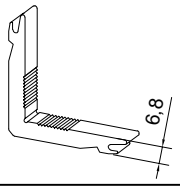
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ISI BARİYERLERİ / INSULATION BARS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	ÇİZİM / 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*		

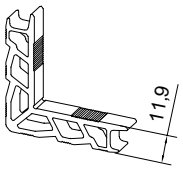
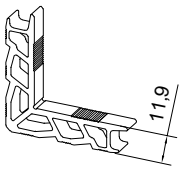
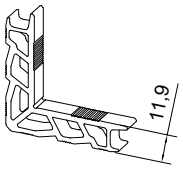
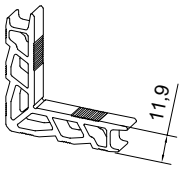
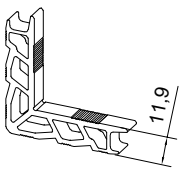
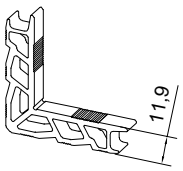
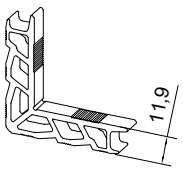
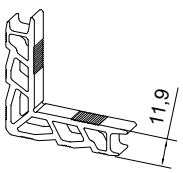
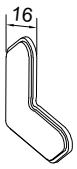
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KÖŞE TAKOZLARI / CORNER CLEATS

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.*		**29,4 mm**
310002 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP520*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.*		**11 mm**
310003 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP520*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.*		**13 mm**
310004 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP520*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.*		**44,9 mm**
310005 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP520*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.*		**21 mm**
310006 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP520*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.*		**17 mm**
310007 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP520*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.*		**23 mm**
310008 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP520*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 1,974 kg/m.*		**19 mm**

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KÖŞE TAKOZLARI / CORNER CLEATS

AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	ÇİZİM / DRAWING	KESİM ÖLÇÜSÜ / CUTTING DIMENSION
310009 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP521*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,366 kg/m.*		**24,7 mm**
310010 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP521*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,366 kg/m.*		**7 mm**
310011 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP521*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,366 kg/m.*		**26,9 mm**
310012 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP521*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,366 kg/m.*		**17,5 mm**
310013 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP521*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,366 kg/m.*		**26 mm**
310014 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP521*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,366 kg/m.*		**9 mm**
310015 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP521*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,366 kg/m.*		**24,4 mm**
310016 ***KÖŞE TAKOZU / CORNER CLEAT*** *PROFİL NUMARASI / PROFILE NUMBER:* ***FP521*** *PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,366 kg/m.*		**39,6 mm**
350001 ***KÖŞE ÇAVUŞU / CORNET ALIGNMENT*** *MALZEME / MATERIAL: POLYAMID*		**16x1,5 mm**

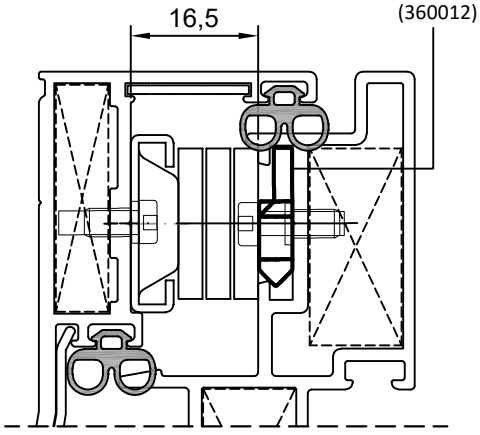
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MAKASLAR / FRICTION STAYS



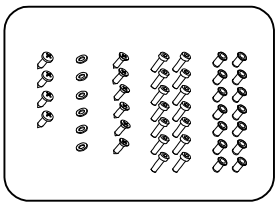
ÜRÜN KODU PRODUCT CODE	ALTERNATİF YERLİ ÜRÜN KODLARI ALTERNATIVE NATIVE PRODUCT CODES	MAKAS BOYU FRICTION STAY LENGTH (inch)	MAKAS BOYU FRICTION STAY LENGTH (mm)	KANAT AÇMA DERECESİ OPENING ANGLE	MAKS. KANAT YÜKSEKLİĞİ MAX. VENT HEIGHT (mm)	MAKS. KANAT AĞIRLIĞI MAX. VENT WEIGHT (kg)
470001	**370001**	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.

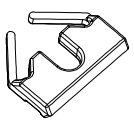


*** STANDART AKSESUAR SETİNDE YER ALMAYAN 460012 KODLU METRİK PERÇİN VE VİDALARIN KULLANILMASI DURUMUNDA TÜM MAKAS TİPLERİ İÇİN MAKSİMUM KANAT AĞIRLIĞI 180 KG OLUP ÜRETİCİ FİRMA GARANTİSİ ALTINDADIR.**
IF USING THE METRIC PIN & SCREWS WITH THE CODE OF 460012 WHICH DOESN'T INCLUDE AT STANDARD ACCESSORY 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 BESLEME TAKOZU (PVC)
FRICTION STAY REINFORCEMENT PLUG (PVC)



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

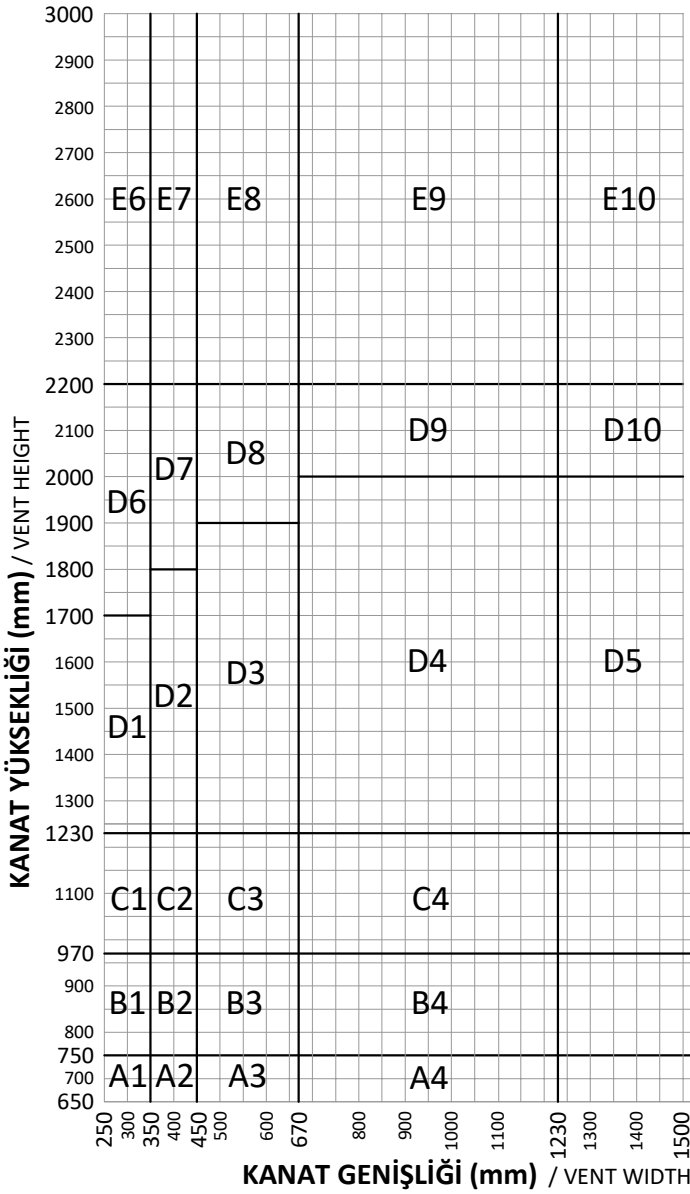
*** ( ) PARANTEZ İÇERİSİNDEKİ KODLAR YERLİ AKSESUARLARA AİTTİR.**
( ) CODES INTO THE PARENTHESIS BELONG TO NATIVE ACCESSORIES.

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

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PARALEL MAKASLAR / PARALEL FRICTION STAYS

MAKAS SEÇİM DİYAGRAMI / FRICTION STAY SELECTION DIAGRAM

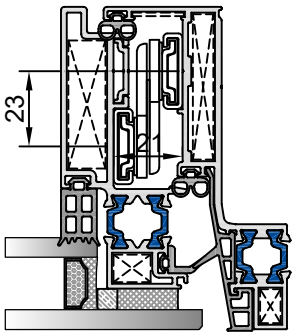




MAKSİMUM MOTORLU UYGULAMA ÖLÇÜSÜ:
2000mm x 3000mm

MAKSİMUM MANUEL UYGULAMA ÖLÇÜSÜ:
1230mm x 1500mm

*** MANUEL UYGULAMADA KOLLAR KANAT YÜKSEKLİĞİNİN MERKEZİNDEN +/- 15% MESAFESİNE SAĞ VE SOL OLMAK ÜZERE HER İKİ TARAFA 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	-
					6	470038	470038
					7	470030	470030
					8	470031	470031
					9	470032	470032
					10	470033	470033

*** 470038 KONTROL MAKASLARI KULLANILIRKEN 470035 STOPLAMA YERİNE 470034 KULLANILIR.**
/ WHEN USING 470038 KONTROL FRICTION STAYS, REPLACE 470035 STOPERS WITH 470034 STOPERS.
*** MANUEL UYGULAMALAR İÇİN KANATLARIN MAKSİMUM AÇILMA MESAFESİ 150 mm 'DİR. /**
MAXIMUM OPENING DISTANCE FOR VENTS ARE 150 mm FOR MANUAL APPLICATIONS.
*** PARALEL MAKAS FİYATLANDIRMASI İÇİN LÜTFEN SİSTEM ALÜMİNYUM'A BAŞVURUNUZ. /**
FOR PARALEL FRICTION STAY PRICING DETAILS PLEASE CONTACT WITH SİSTEM ALUMINIUM.

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

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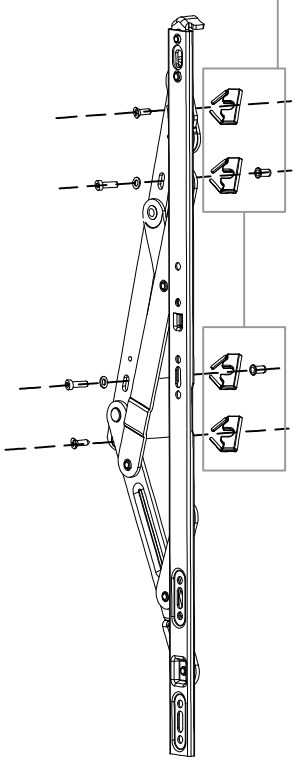
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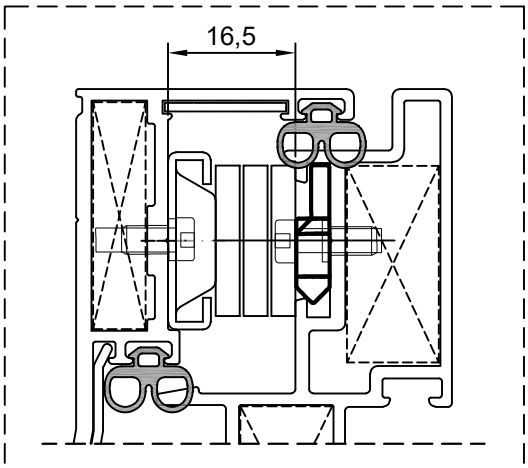
KANAT KİTLEME AKSESUARLARI / VENT LOCKING ACCESSORIES

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

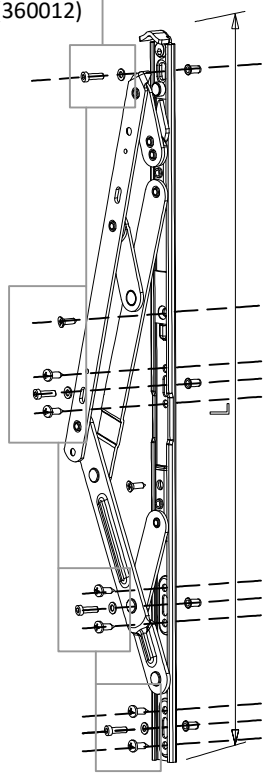
ÜST ÇEKTİRME PARÇASI / TOP FASTENING PIECE: **470020** (370020)

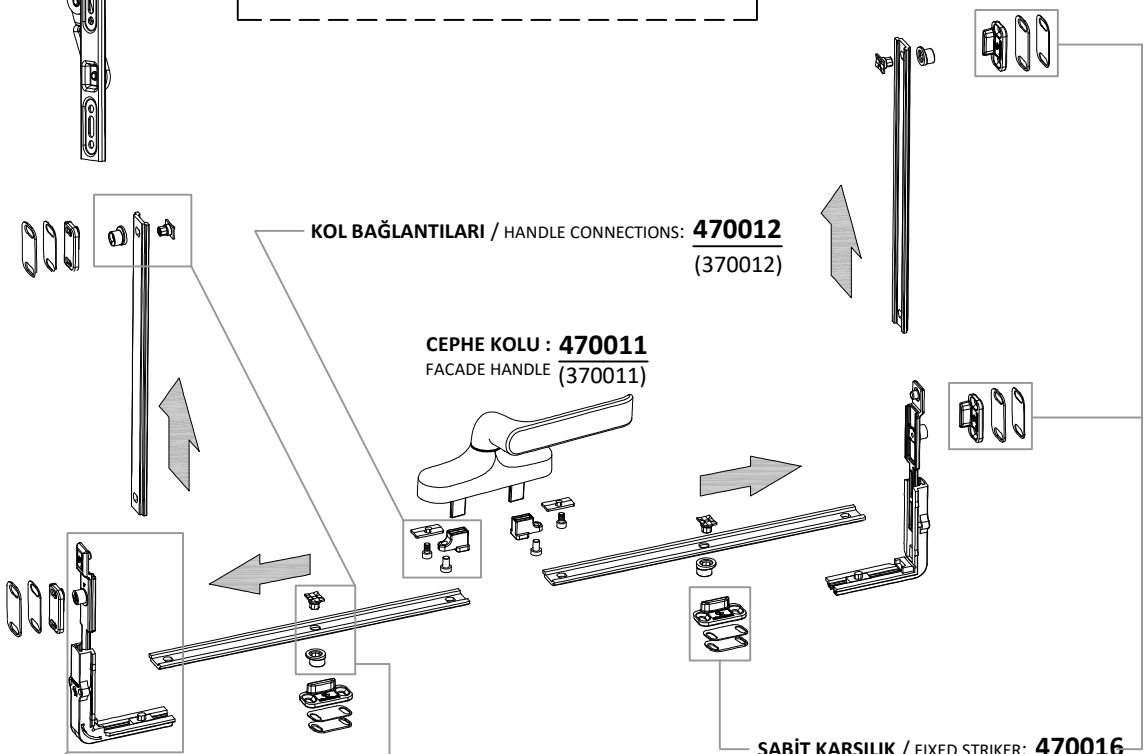
MAKAS ALTI BESLEME TAKOZU : **450007** (350007)
FRICTION STAY REINFORCEMENT PLUG
(OPSİYONEL / OPTIONAL)





MAKAS BAĞLANTI DETAYI /
CONNECTION DETAIL FOR THE FRICTION STAY





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

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

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

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

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

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

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

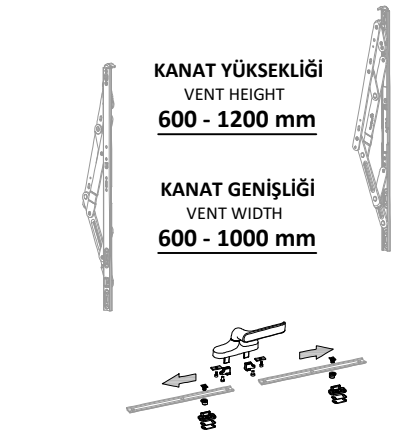
*** ( ) PARANTEZ İÇERİSİNDEKİ KODLAR YERLİ AKSESUARLARA AİTTİR.**
( ) CODES INTO THE PARENTHESIS BELONG TO NATIVE ACCESSORIES.

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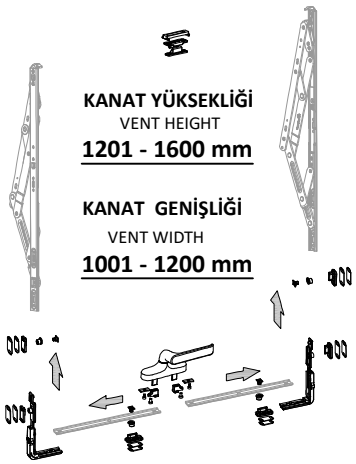
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KANAT KİTLEME SETLERİ / VENT LOCKING KITS

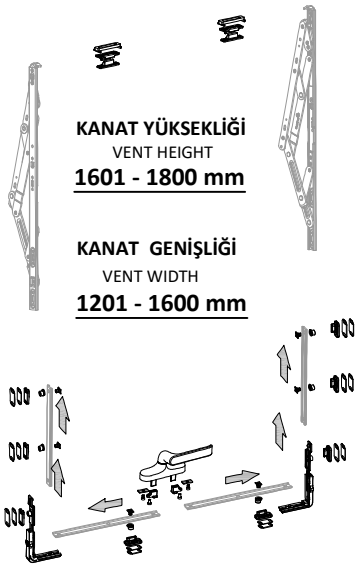
480001 (380001)



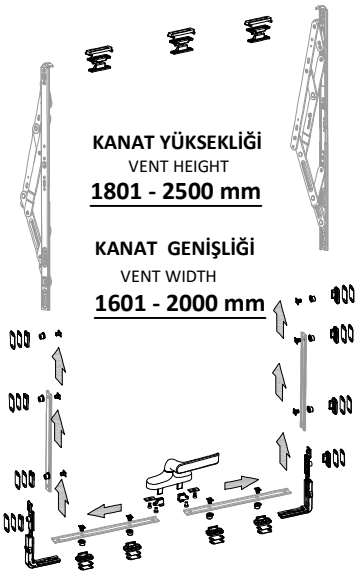
480002 (380002)



480003 (380003)



480004 (380004)



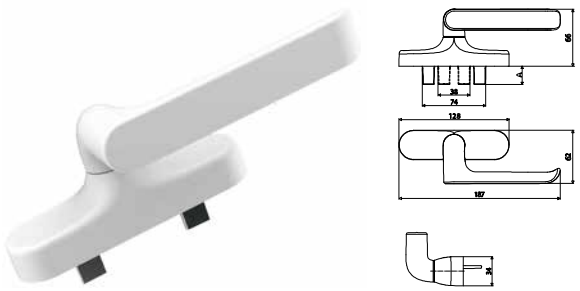
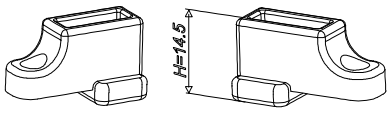
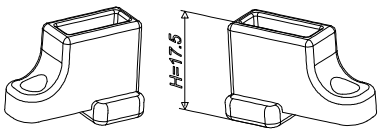
SET KODU / KIT CODE :			480001 (380001)	480002 (380002)	480003 (380003)	480004 (380004)
ÜRÜN KODU PRODUCT CODE	**ALTERNATİF YERLİ ÜRÜN KODLARI** ALTERNATIVE NATIVE PRODUCT CODES	**ÜRÜN ADI** PRODUCT NAME	**2 NOKTADAN KİTLEME** 2 POINTS LOCKING	**7 NOKTADAN KİTLEME** 7 POINTS LOCKING	**10 NOKTADAN KİTLEME** 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.

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AKSESUARLAR / ACCESSORIES

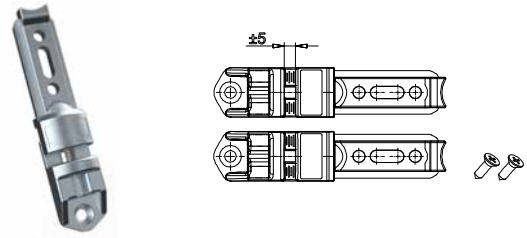
AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	GÖRSELLER / IMAGES
470011 (370011) ***CEPHE KOLU*** / *FACADE HANDLE*	
470051 (370051) ***ANAHTARLI CEPHE KOLU*** / *FACADE HANDLE WITH KEY*	
470052 (370052) ***SÖKÜLEBİLİR CEPHE KOLU MEKANİZMASI*** / *DETACHABLE FACADE CREMONE MECANISM*	
470053 (370053) ***SÖKÜLEBİLİR CEPHE KOLU SAPI*** / *DETACHABLE FACADE HANDLE*	
470012 (370012) ***CEPHE KOLU BAĞLANTI ELEMANI*** / *FACADE HANDLE FASTENING ELEMENT*	 **14,5mm**
470013 (370013) ***CEPHE KOLU BAĞLANTI ELEMANI*** / *FACADE HANDLE FASTENING ELEMENT*	 **17,5mm**
470014 (370014) ***SABİT PİM*** / *FIXED PIN*	

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

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AKSESUARLAR / ACCESSORIES

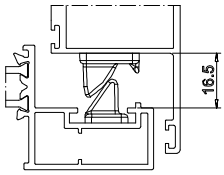
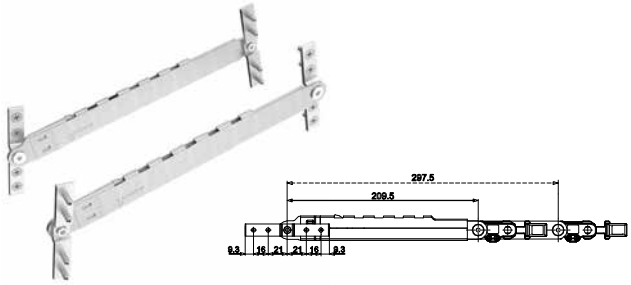
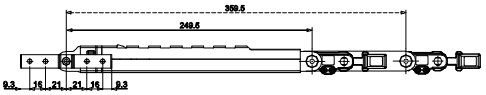
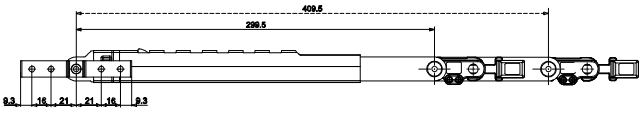
AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	GÖRSELLER / IMAGES
470015 (370015) ***AYARLI PİM*** */ ADJUSTABLE PIN*	
470016 (370016) ***SABİT KARŞILIK*** */ FIXED STRIKER*	
470017 (370017) ***AYARLI KARŞILIK*** */ ADJUSTABLE STRIKER*	
470018 (370018) ***KÖŞE DÖNÜŞ AKTARMA PARÇASI*** / *CORNER TRANSFER DEVICE*	
470019 (370019) ***CEPHE MAKASLARI İÇİN YÜKSEKLİK AYAR PARÇASI*** / *HEIGHT ADJUSMENT PIECE FOR FRICTION STAYS*	

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( ) CODES INTO THE PARENTHESIS BELONG TO NATIVE ACCESSORIES.

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AKSESUARLAR / ACCESSORIES

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) ***TELESKOPİK MAKAS (KÜÇÜK) /*** *TELESCOPIC ARM (SMALL)*	
470024 (370024) ***TELESKOPİK MAKAS (ORTA) /*** *TELESCOPIC ARM (MEDIUM)*	
470025 (370025) ***TELESKOPİK MAKAS (BÜYÜK) /*** *TELESCOPIC ARM (LARGE)*	

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AKSESUARLAR / ACCESSORIES

AKSESUAR KODU VE GÖRSELİ / ACCESSORY CODE AND IMAGE	TEKNİK ÖZELLİKLER / TECHNICAL SPECIFICATIONS
 **470039** - SİYAH / BLACK **470040** - GRİ / GRAY ***VASİSTAS VE IŞIKLIK KANATLARI İÇİN AÇMA MOTORU*** / *OPENING MOTOR FOR BOTTOM-HUNG & SKYLIGHT VENTS*	**ALUTECH SMART (230V AC) MOTOR** Ayarlanabilir Açılma Mesafesi : 180 mm ile 380 mm İtme Gücü .....: 200 N Cekme Gücü .....: 250 N Calışma Hızı .....: 18 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot .....: 50 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelerde ...: 38 kg Kanat Eni .....: 600 - 1250 mm Maksimum Kanat Boyu .....: 2600 mm
 **470041** - SİYAH / BLACK **470042** - GRİ / GRAY ***VASİSTAS VE IŞIKLIK KANATLARI İÇİN AÇMA MOTORU*** / *OPENING MOTOR FOR BOTTOM-HUNG & SKYLIGHT VENTS*	**ALUTECH SMART (24V DC) MOTOR** Ayarlanabilir Açılma Mesafesi : 180 mm ile 380 mm İtme Gücü .....: 200 N Cekme Gücü .....: 250 N Calışma Hızı .....: 18 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot .....: 50 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelerde ...: 38 kg Kanat Eni .....: 600 - 1250 mm Maksimum Kanat Boyu .....: 2600 mm
 **470043** - SİYAH / BLACK **470044** - GRİ / GRAY ***PARALEL, VASİSTAS VE IŞIKLIK KANATLARI İÇİN MOTOR*** / *MOTOR FOR PARALEL, BOTTOM-HUNG & SKYLIGHT VENTS*	**ALUTECH LIVIN L25 (230V AC) MOTOR** Ayarlanabilir Açılma Mesafesi : 200 mm ile 380 mm İtme Gücü .....: 250 N Cekme Gücü .....: 250 N Calışma Hızı .....: 18 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot .....: 60 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelerde ...: 45 kg Kanat Eni .....: 450 - 1250 mm Maksimum Kanat Boyu .....: 2600 mm
 **470045** - SİYAH / BLACK **470046** - GRİ / GRAY ***PARALEL, VASİSTAS VE IŞIKLIK KANATLARI İÇİN MOTOR*** / *MOTOR FOR PARALEL, BOTTOM-HUNG & SKYLIGHT VENTS*	**ALUTECH LIVIN L35 (24V DC) MOTOR** Ayarlanabilir Açılma Mesafesi : 200 mm ile 380 mm İtme Gücü .....: 250 N Cekme Gücü .....: 250 N Calışma Hızı .....: 18 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot .....: 80 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelerde ...: 65 kg Kanat Eni .....: 450 - 1250 mm Maksimum Kanat Boyu .....: 2600 mm
 **470047** - GRİ / GRAY ***PARALEL, VASİSTAS VE IŞIKLIK KANATLARI İÇİN MOTOR*** / *MOTOR FOR PARALEL, BOTTOM-HUNG & SKYLIGHT VENTS*	**ALUTECH FAST 50 (230V AC) MOTOR** Ayarlanabilir Açılma Mesafesi : 300 mm İtme Gücü .....: 500 N Cekme Gücü .....: 500 N Calışma Hızı .....: 23 mm/sec Maks.Kanat Ağırlığı-Vasistas ve Pivot .....: 160 kg Maks.Kanat Ağırlığı-Yatay ve Çatı Pencerelerde ...: 90 kg Kanat Eni .....: 200 - 1250 mm Maksimum Kanat Boyu .....: 2600 mm

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AKSESUARLAR / ACCESSORIES

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

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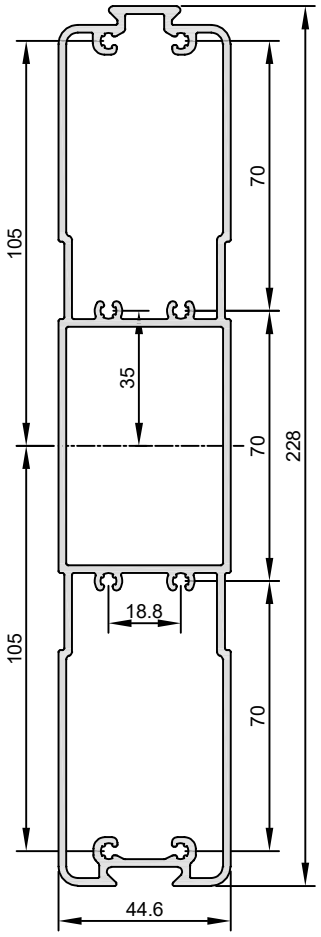
ACCESSORIES WITH FABRICATION MANUAL

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

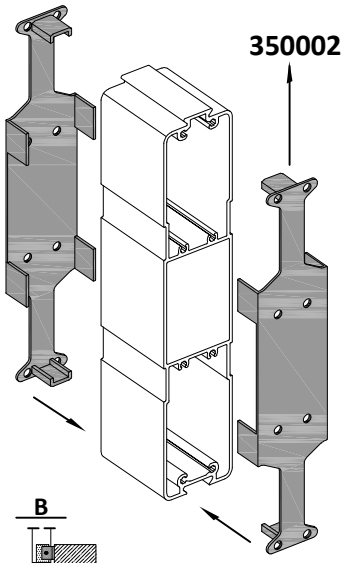
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DİLATASYON BAĞLANTILARI
DILATATION CONNECTIONS

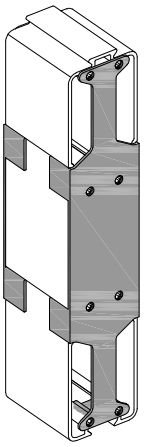
AKSESUAR KODU ACCESSORY CODE	KESİM ÖLÇÜSÜ CUTTING DIMENSION
310017	17,5 mm
310018	32,5 mm
310019	52,5 mm
310020	72,5 mm
310021	92,5 mm
310022	91,5 mm
310023	112 mm
310024	110 mm
310025	132 mm
310026	129,5 mm
310027	151,5 mm
310028	149 mm
310029	171,5 mm
310030	169 mm
310031	190 mm
310032	187 mm

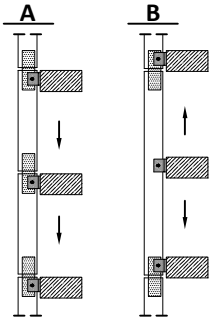


FP501 (3,864 kg/m.)



MONTAJLI AKSESUAR
ACCESSORY INSTALLED





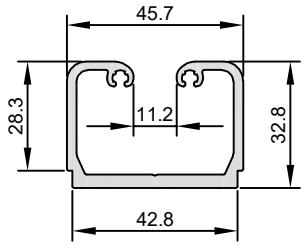
350002 KODLU PLASTİK KAPAKLAR, BAĞLANTI İLE BİRLİKTE GÖNDERİLİR.
PLASTIC CAPS SEEN BELOW ARE DELIVERED TOGETHER WITH DILATATION CONNECTION.

GENLEŞME İÇİN DİLATASYON BOŞLUĞU
DILATATION GAP FOR EXPANSION

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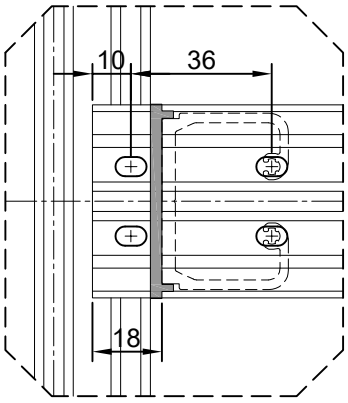
U BAĞLANTILAR
U CONNECTIONS

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

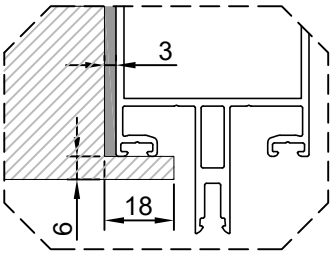


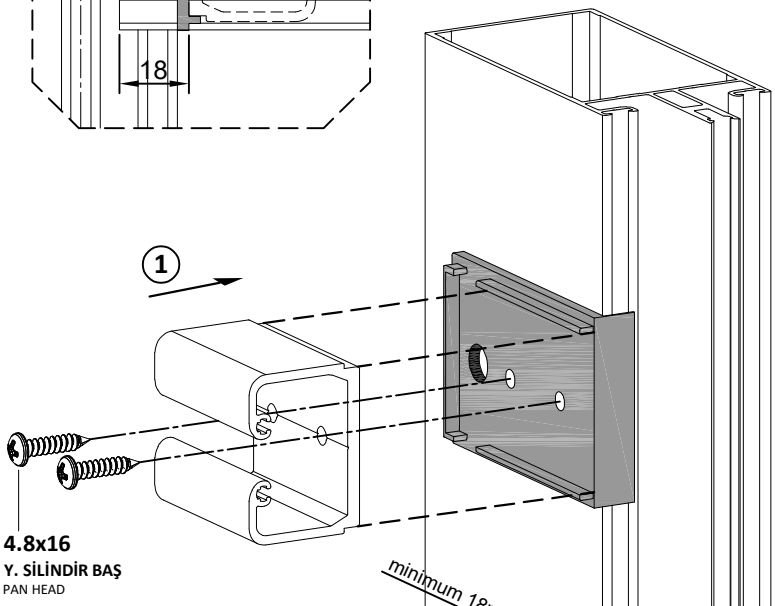
FP506 (1,040 kg/m.)

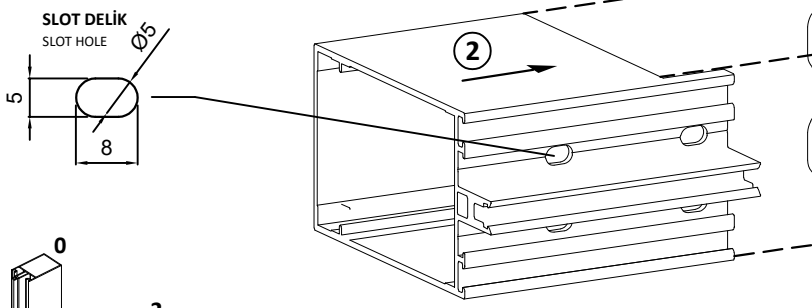
SLOT DELİK ÖLÇÜLERİ
SLOT HOLE DIMENSIONS

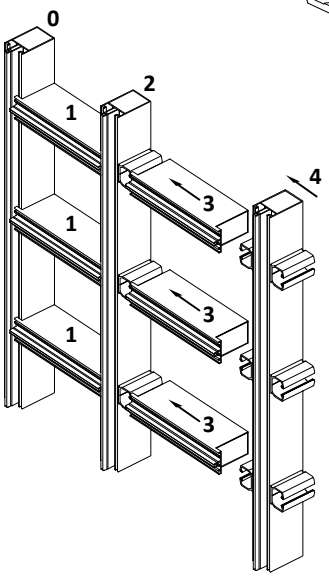


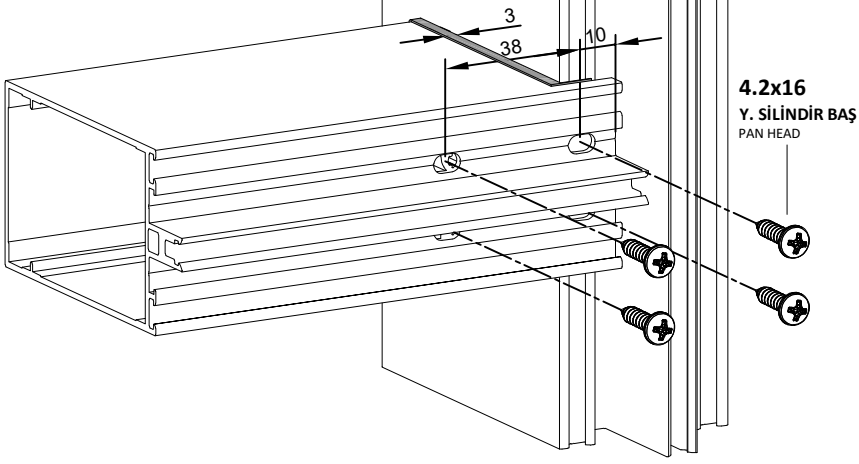
KERTME ÖLÇÜLERİ
NOTCHING DIMENSIONS







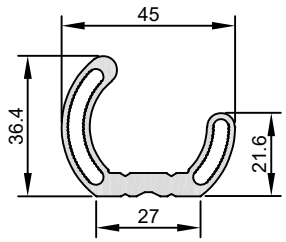




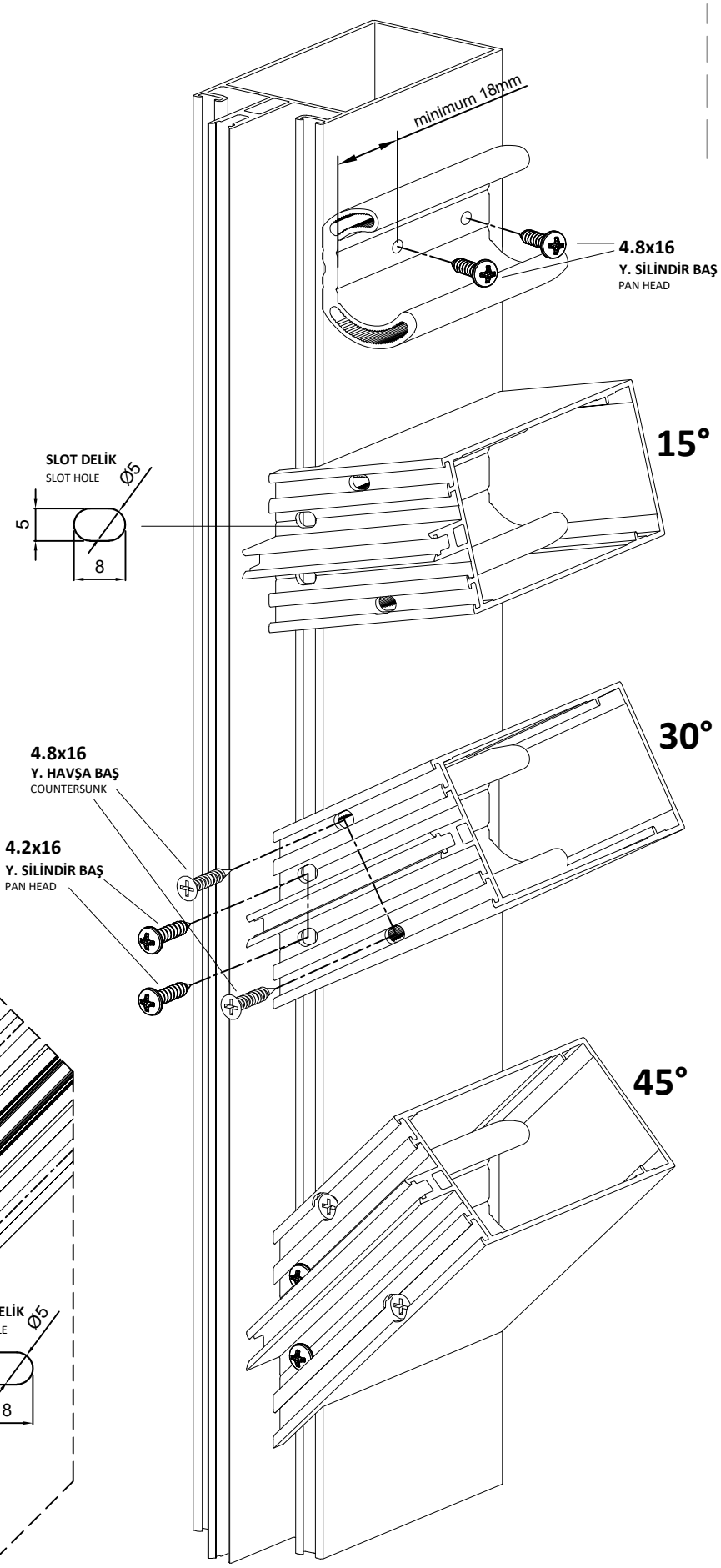
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AÇILI U BAĞLANTILAR
ANGULAR U CONNECTIONS

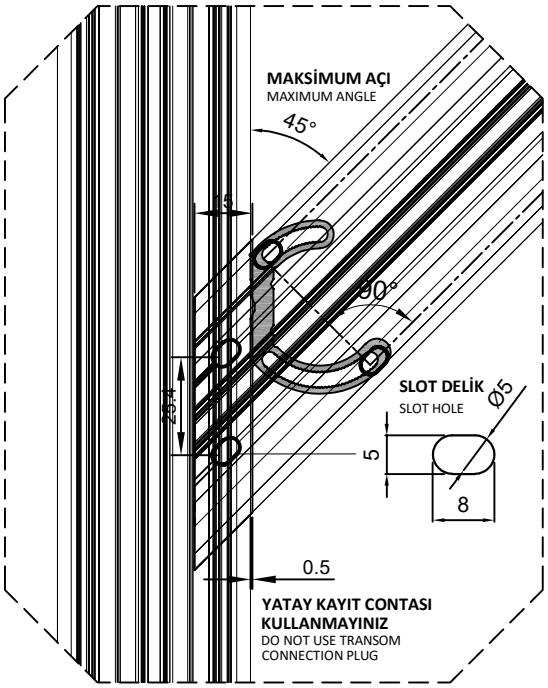
AKSESUAR KODU ACCESSORY CODE	KESİM ÖLÇÜSÜ CUTTING DIMENSION
310318	12 mm
310319	32 mm
310320	42 mm
310321	52 mm
310322	59,4 mm
310323	79,4 mm
310324	99,4 mm
310325	119,4 mm
310326	139,4 mm
310327	159,4 mm
310328	178 mm
310329	210 mm



FP514 (0,947 kg/m.)



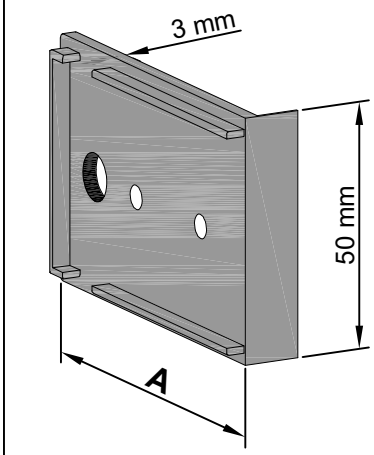
45° KAYIT BAĞLANTI ÖRNEĞİ
45° TRANSOM CONNECTION SAMPLE

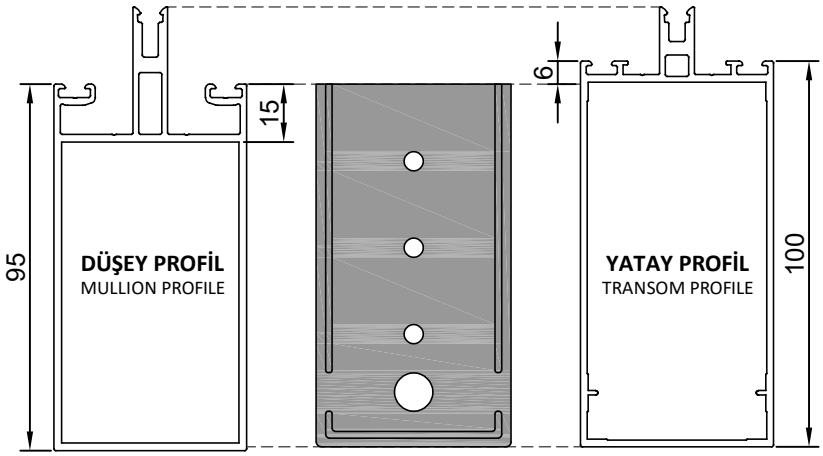


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YATAY KAYIT CONTALARI
TRANSOM CONNECTION PLUGS

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

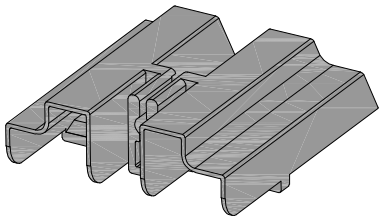




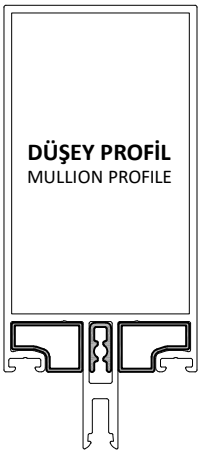
YATAY KAYIT CONTASI
TRANSOM CONNECTION PLUG

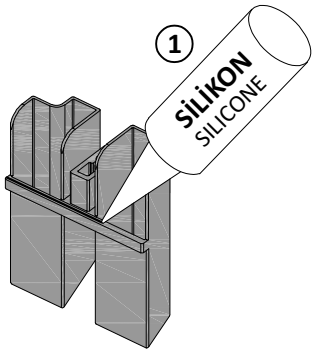
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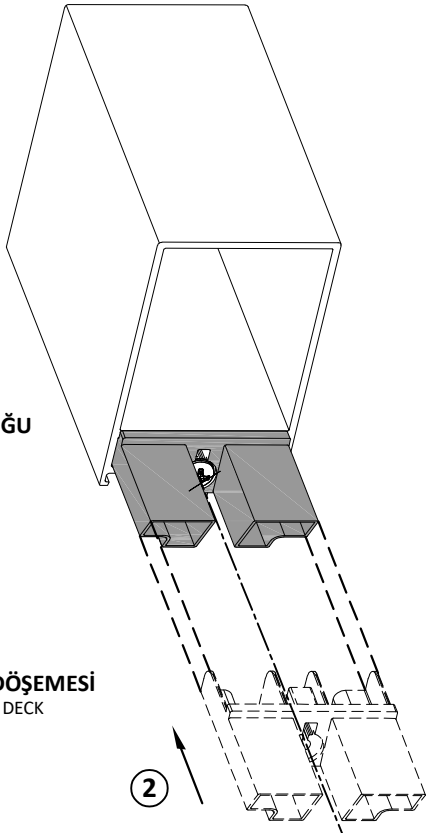
KONDENS YOLU İÇİN BAĞLANTI PARÇASI
CONNECTION PIECE FOR THE CONDENSATION LINE

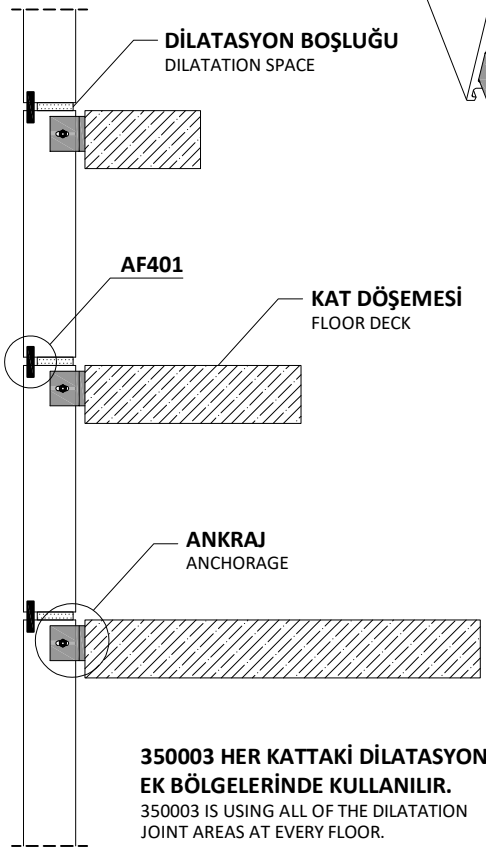


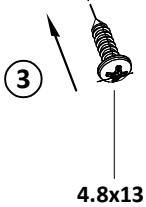
350003





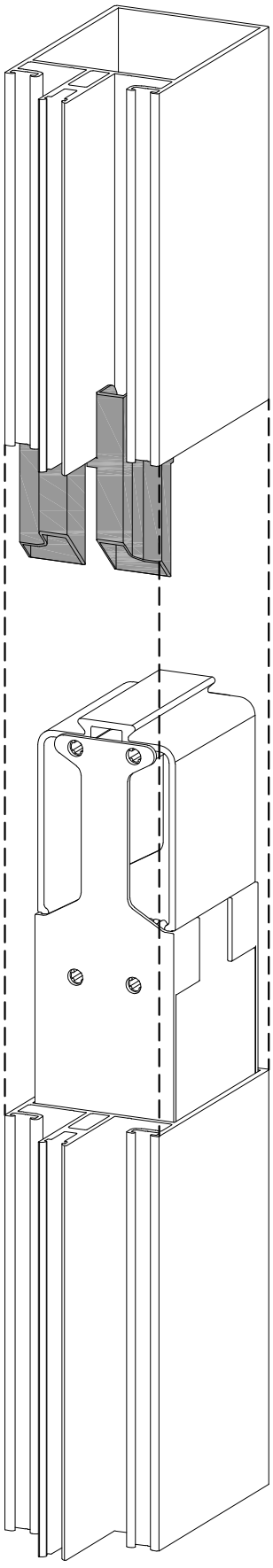






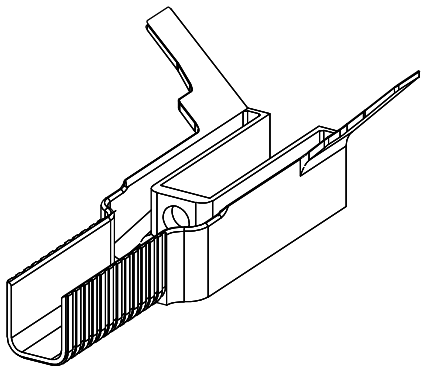
350003 HER KATTAKİ DİLATASYON EK BÖLGELERİNDE KULLANILIR.
350003 IS USING ALL OF THE DILATATION JOINT AREAS AT EVERY FLOOR.

4.8x13
Y. SİLİNDİR BAŞ
PAN HEAD

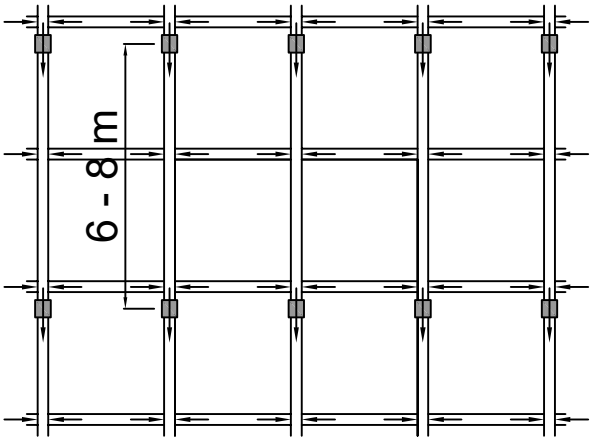


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ÇÖRTEN (YÜKSEK KATLI YAPILAR İÇİN)
WATERSPOUT (FOR ONLY HIGH BUILDINGS)

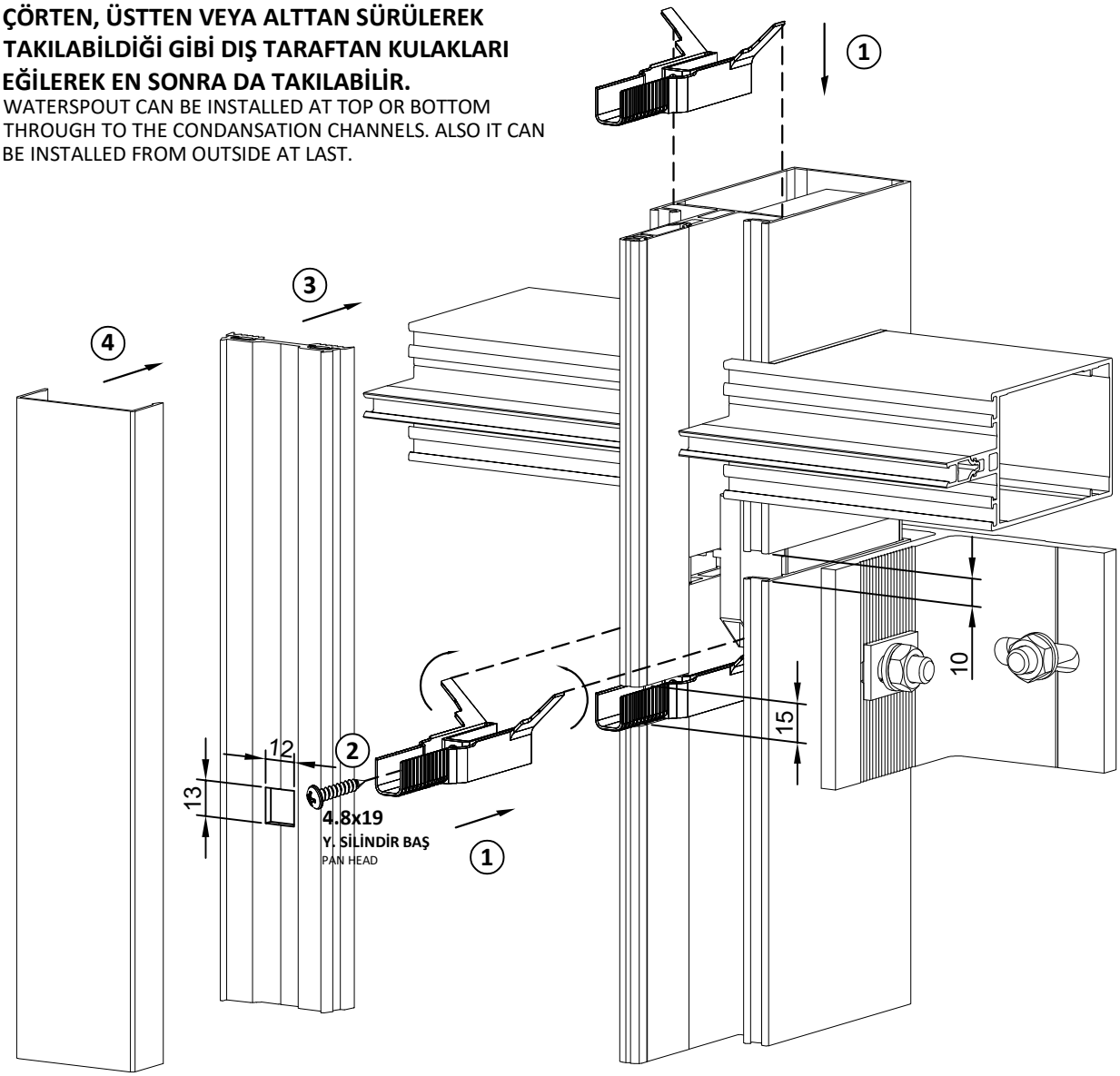


350004



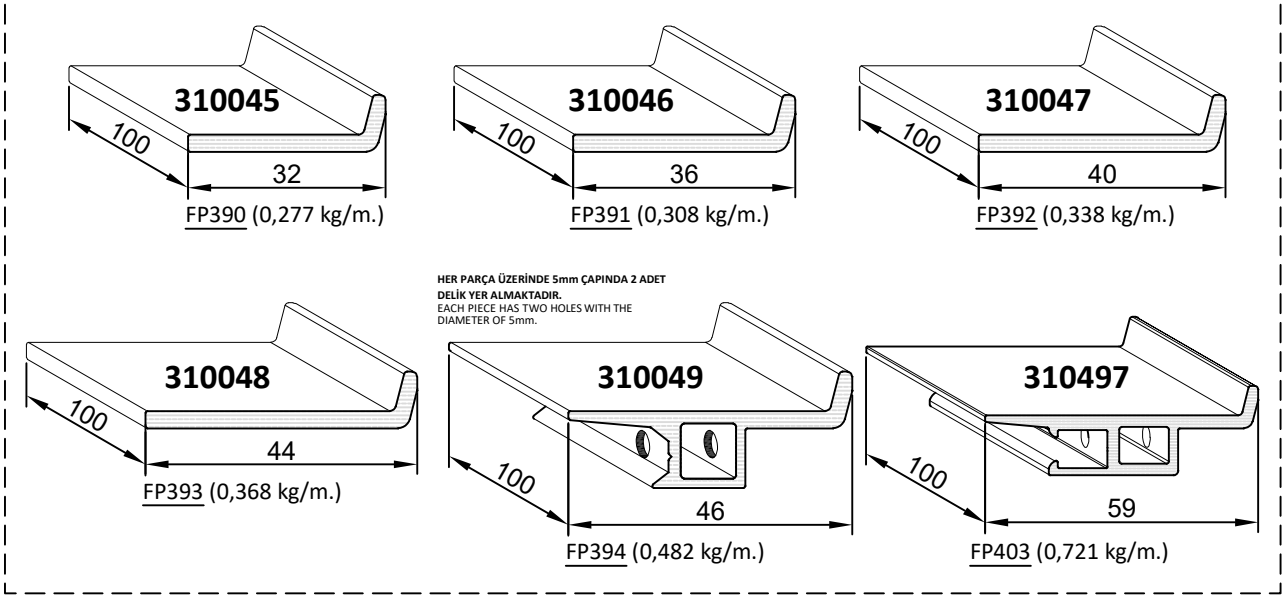
60 METRE BİNA YÜKSEKLİĞİNDEN SONRA HER İKİ KATTA BİR UYGULANMASI TAVSİYE EDİLİR.
USING ONE AT EACH TWO FLOORS AFTER THE BUILDING HEIGHT OF 60 METERS RECOMMENDED.

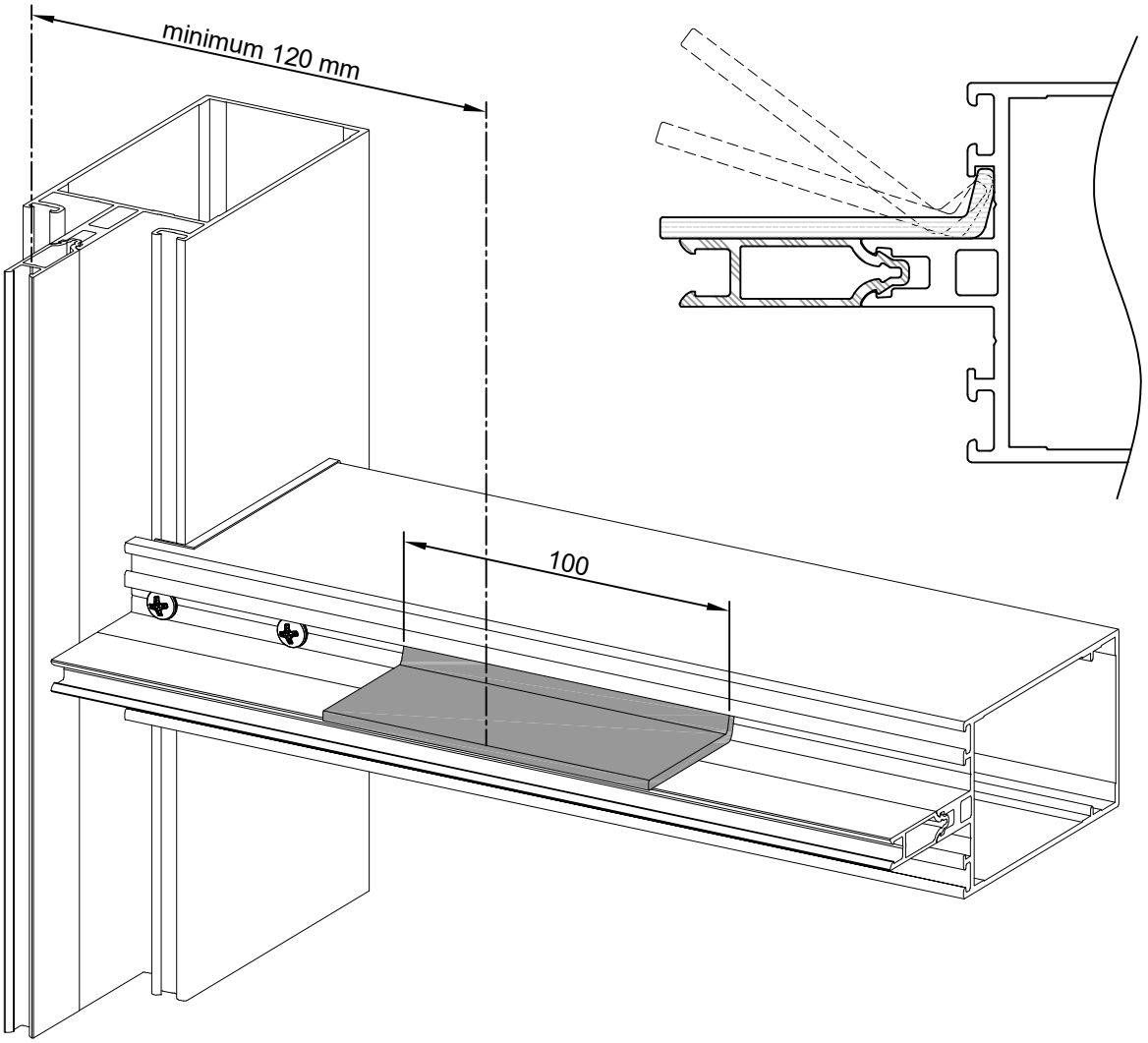
ÇÖRTEN, ÜSTTEN VEYA ALTTAN SÜRÜLEREK TAKILABİLDİĞİ GİBİ DIŞ TARAFTAN KULAKLARI EĞİLEREK EN SONRA DA TAKILABİLİR.
WATERSPOUT CAN BE INSTALLED AT TOP OR BOTTOM THROUGH TO THE CONDANSATION CHANNELS. ALSO IT CAN BE INSTALLED FROM OUTSIDE AT LAST.



Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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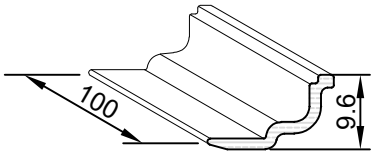
CAM ALTI DESTEK PARÇALARI
GLAZING SUPPORT PIECES



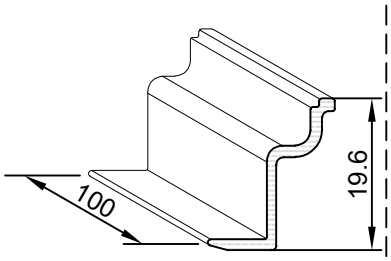


Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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KANAT İÇİN CAM ALTI DESTEK PARÇALARI
GLAZING SUPPORT PIECES FOR VENT

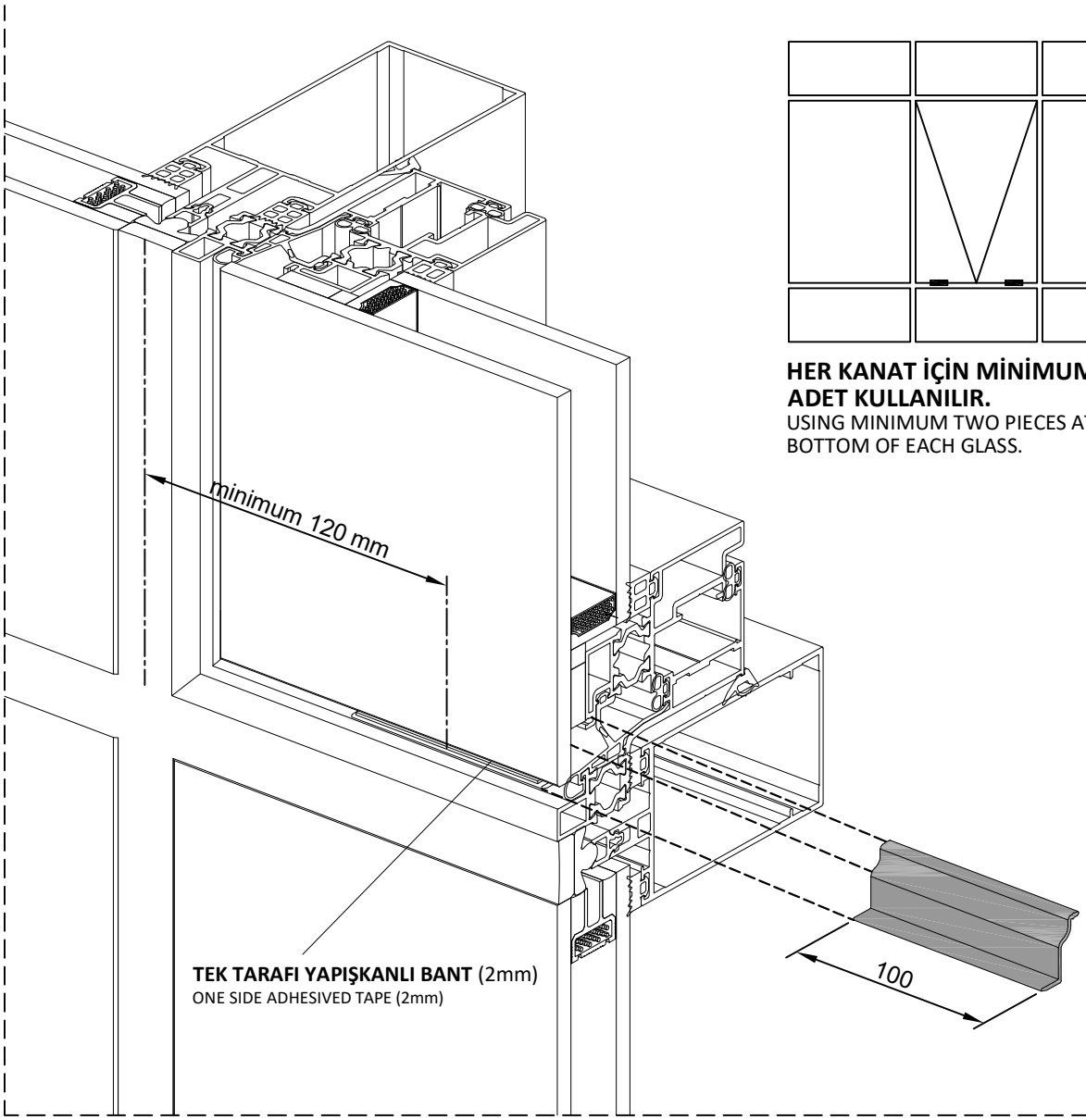


310050
FP400 (0,078 kg/m.)



310051
FP401 (0,112 kg/m.)

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



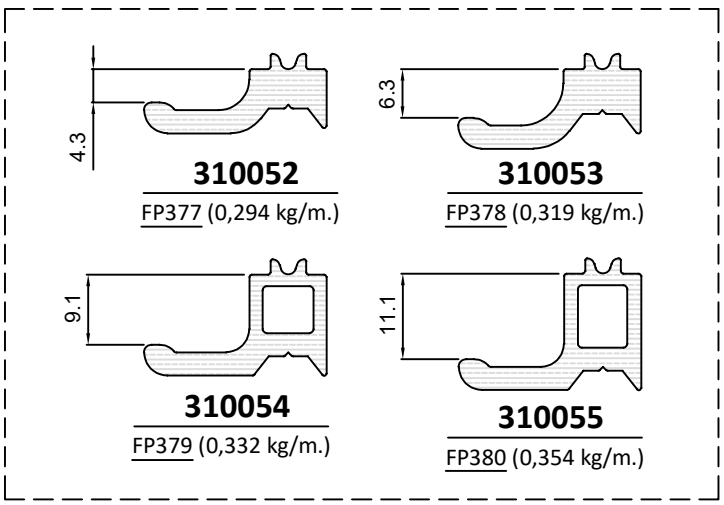
HER KANAT İÇİN MİNİMUM İKİŞER ADET KULLANILIR.
USING MINIMUM TWO PIECES AT THE BOTTOM OF EACH GLASS.

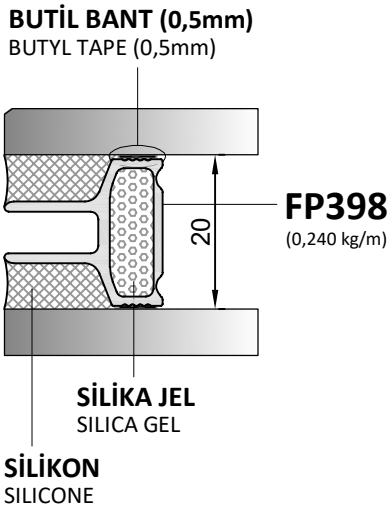
TEK TARAFI YAPIŞKANLI BANT (2mm)
ONE SIDE ADHESIVED TAPE (2mm)

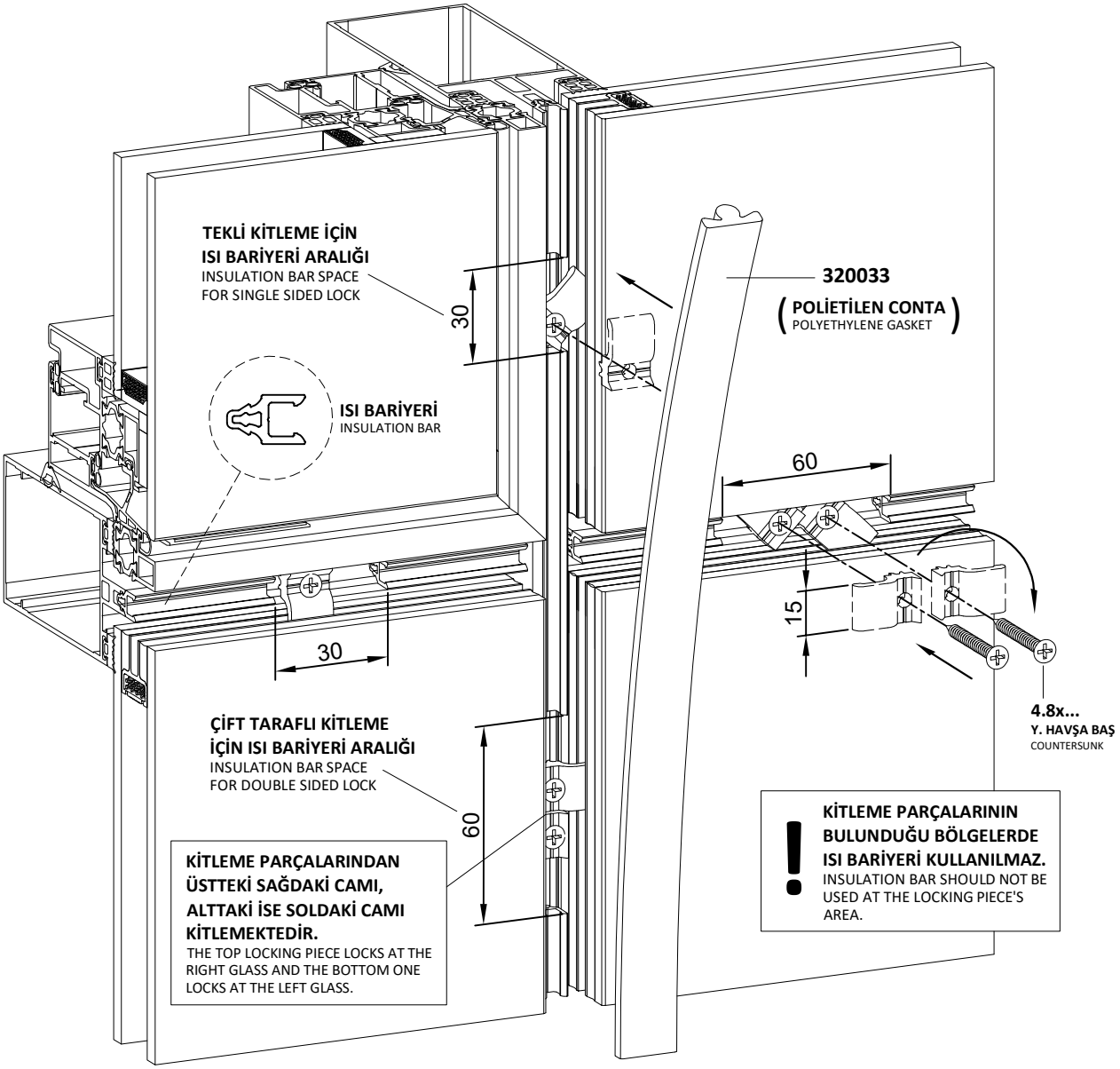
Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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STANDART 20mm ISICAM ÇITALI CAM ARASI KİTLEME PARÇALARI

LOCKING PIECES FOR THE STANDARD 20mm DOUBLE GLAZED GLASS SPACER





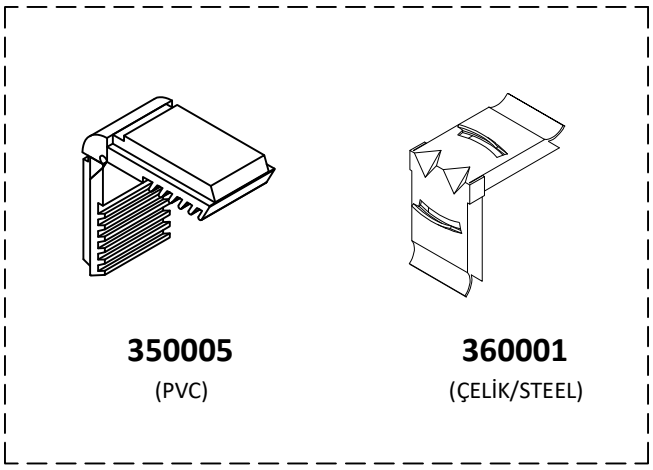


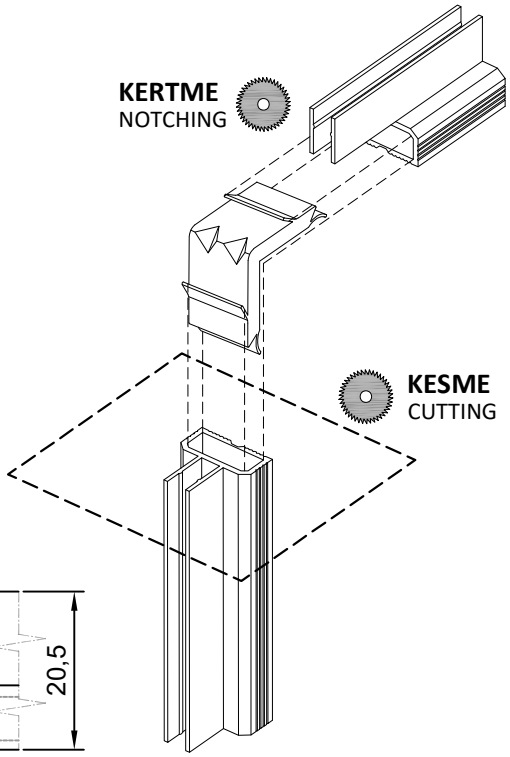
AYNI CAM MODÜLÜNDEKİ KİTLEMELER ARASI MESAFE YAKLAŞIK 30 CM OLMALIDIR.
DISTANCE BETWEEN LOCKING PIECES SHOULD BE APPROXIMATELY 30 CM AT THE SAME GLASS MODULE.

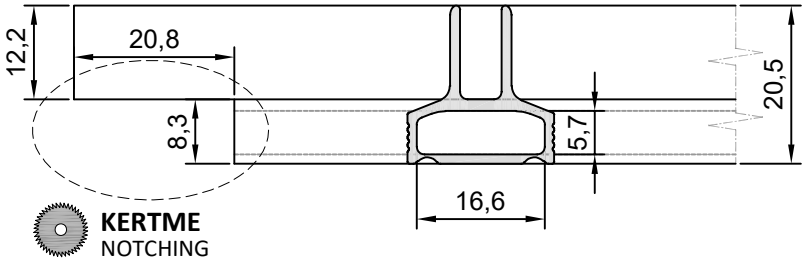
Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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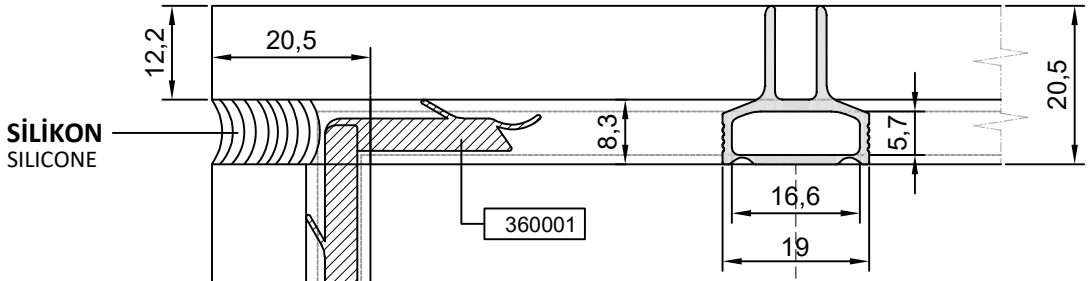
STANDART 20mm ISICAM ÇITASI İÇİN KÖŞE BİRLEŞTİRME METODU

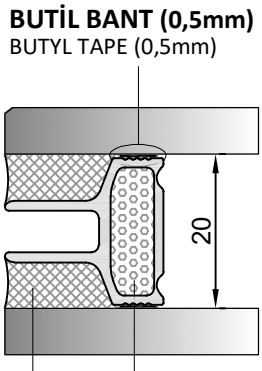
CORNER CONNECTION METHOD FOR THE STANDARD 20mm DOUBLE GLAZED GLASS SPACER

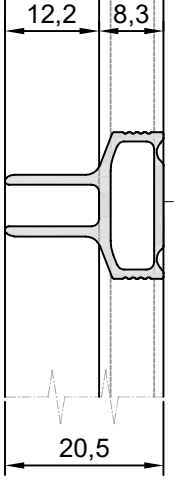


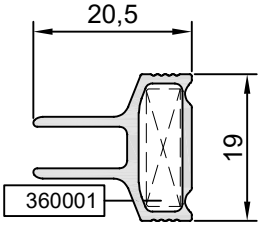










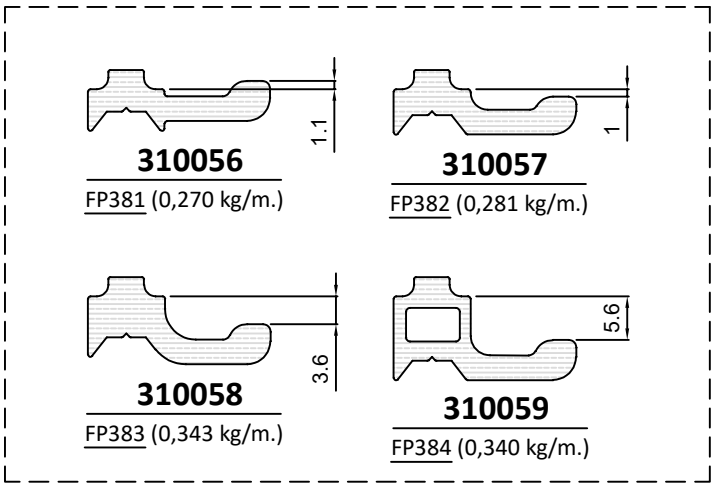


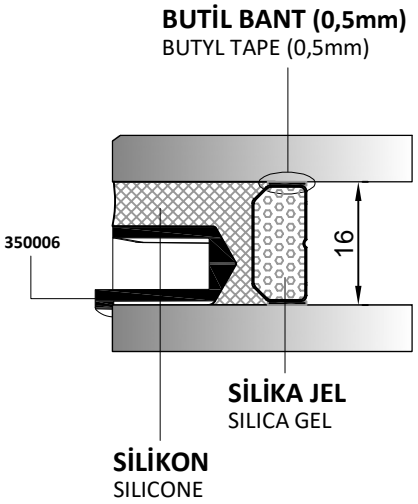
FP398

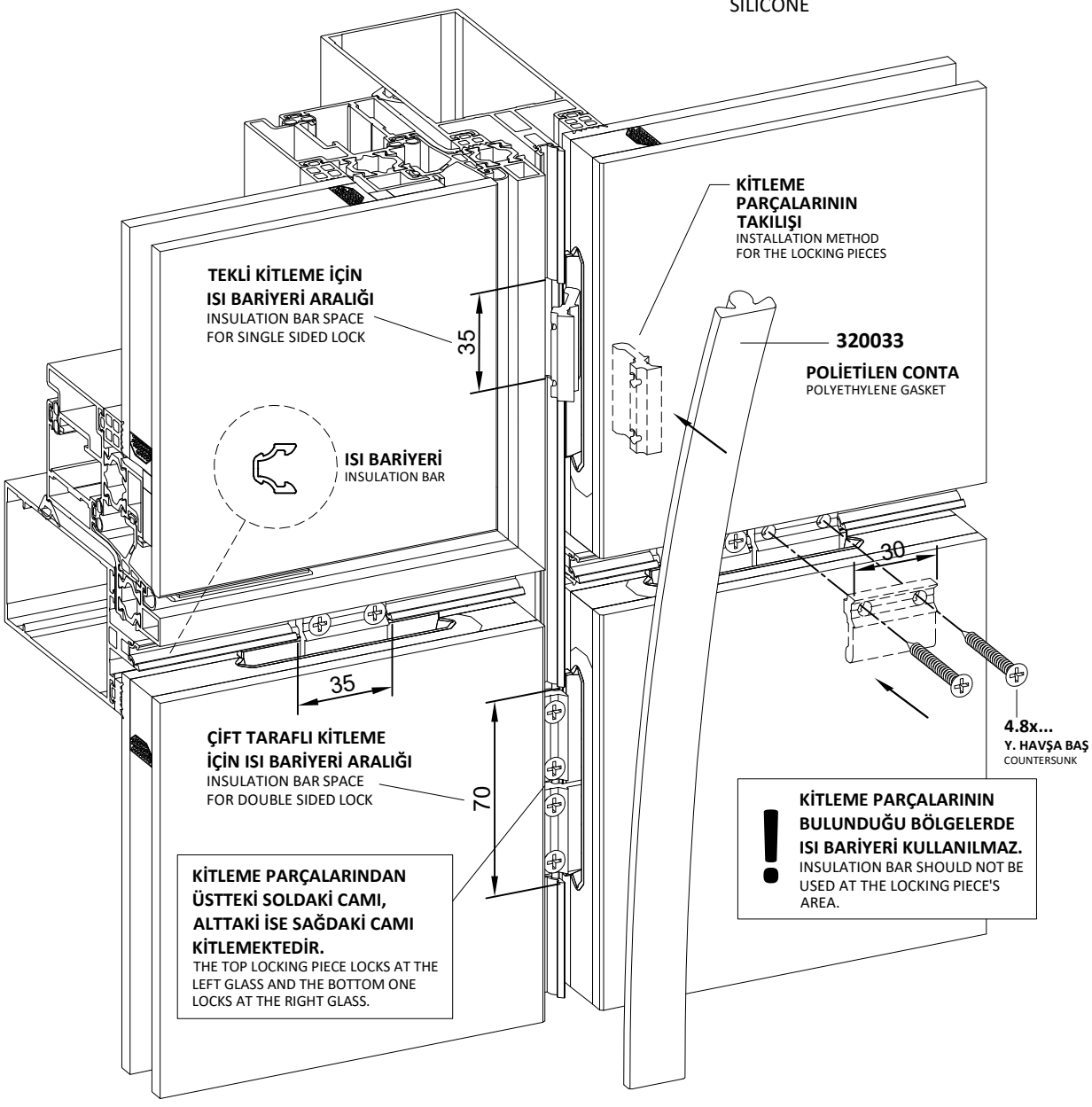
(0,240 kg/m)

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



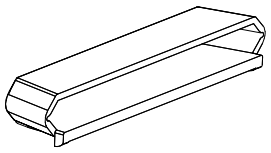




AYNI CAM MODÜLÜNDEKİ KİTLEMELER ARASI MESAFE YAKLAŞIK 40 CM OLMALIDIR.
DISTANCE BETWEEN LOCKING PIECES SHOULD BE APPROXIMATELY 40 CM AT THE SAME GLASS MODULE.

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

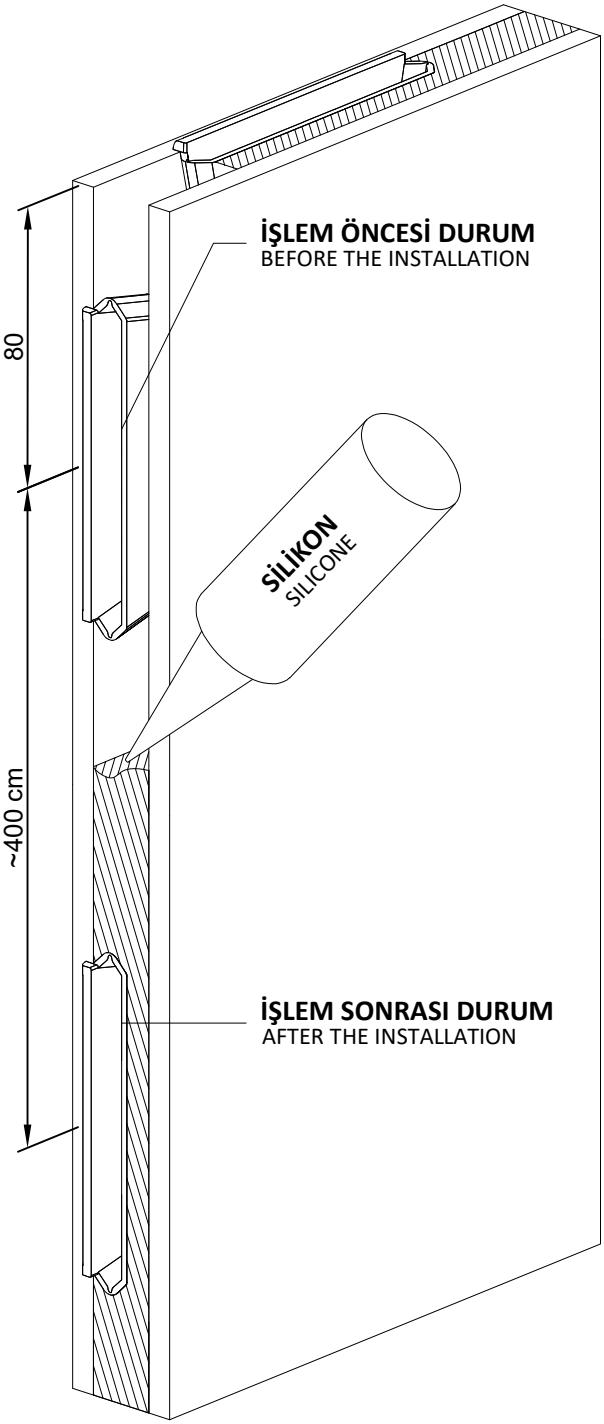


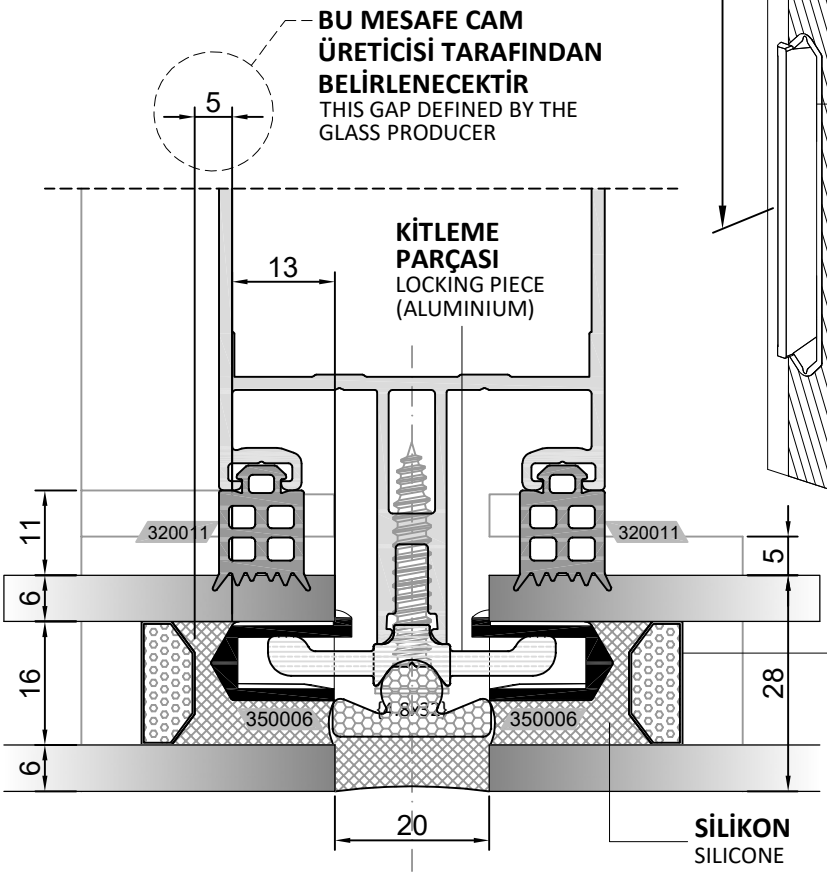
350006
(PVC)

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.



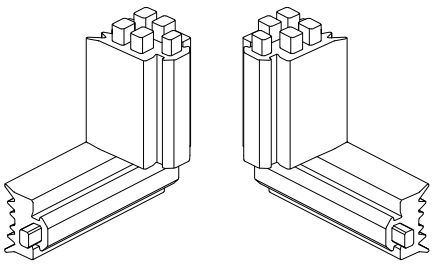
350006
(PVC)





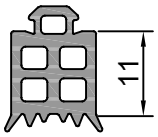
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VULKANİZE İÇ KÖŞE PARÇALARI
VULCANISED INNER CORNER PIECES



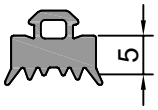
330001
(EPDM)

DÜŞEY FİTİL
VERTICAL GASKET



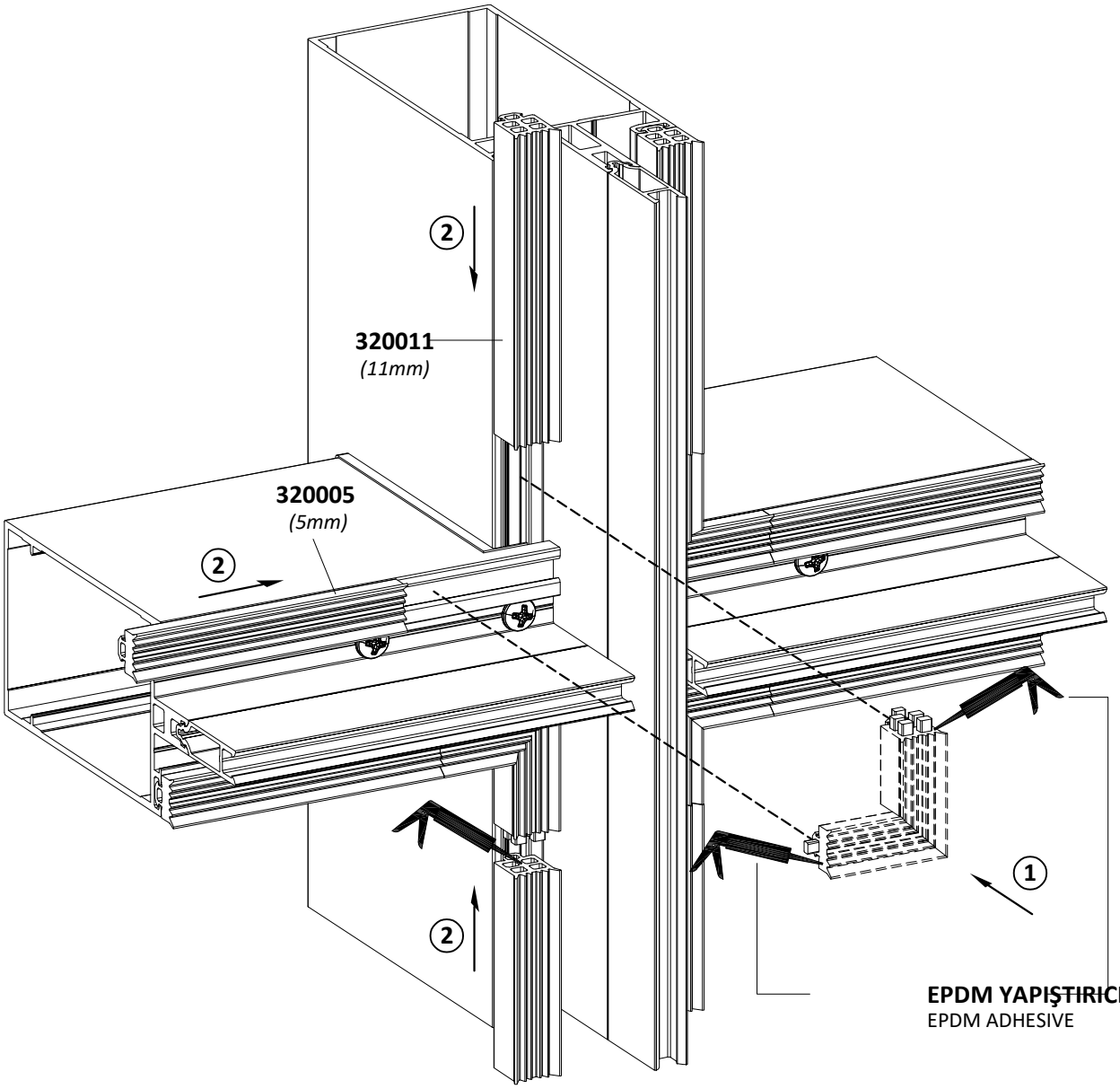
320011
(11mm)

YATAY FİTİL
HORIZONTA GASKET



320005
(5mm)

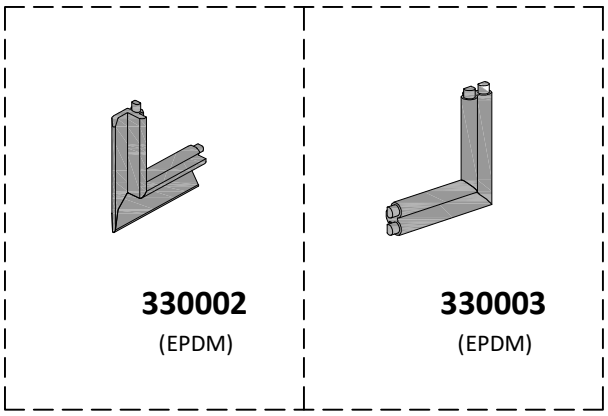
! (**SAĞ VE SOL PARÇALAR OLMAK ÜZERE TAKIMDIR.** /
SET AS LEFT AND RIGHT PAIRS.)



EPDM YAPIŞTIRICISI
EPDM ADHESIVE

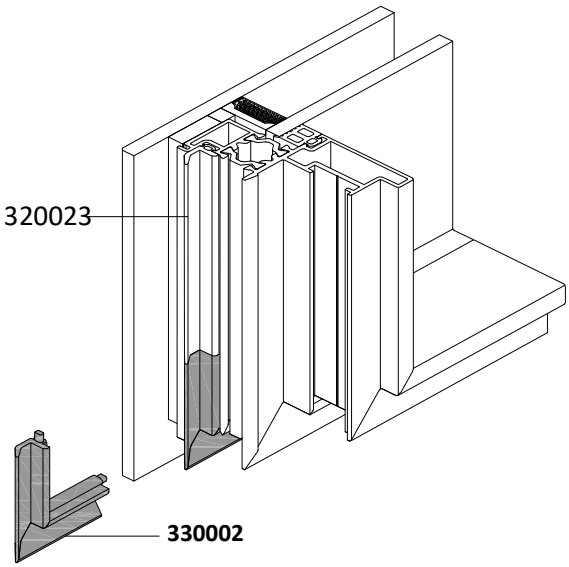
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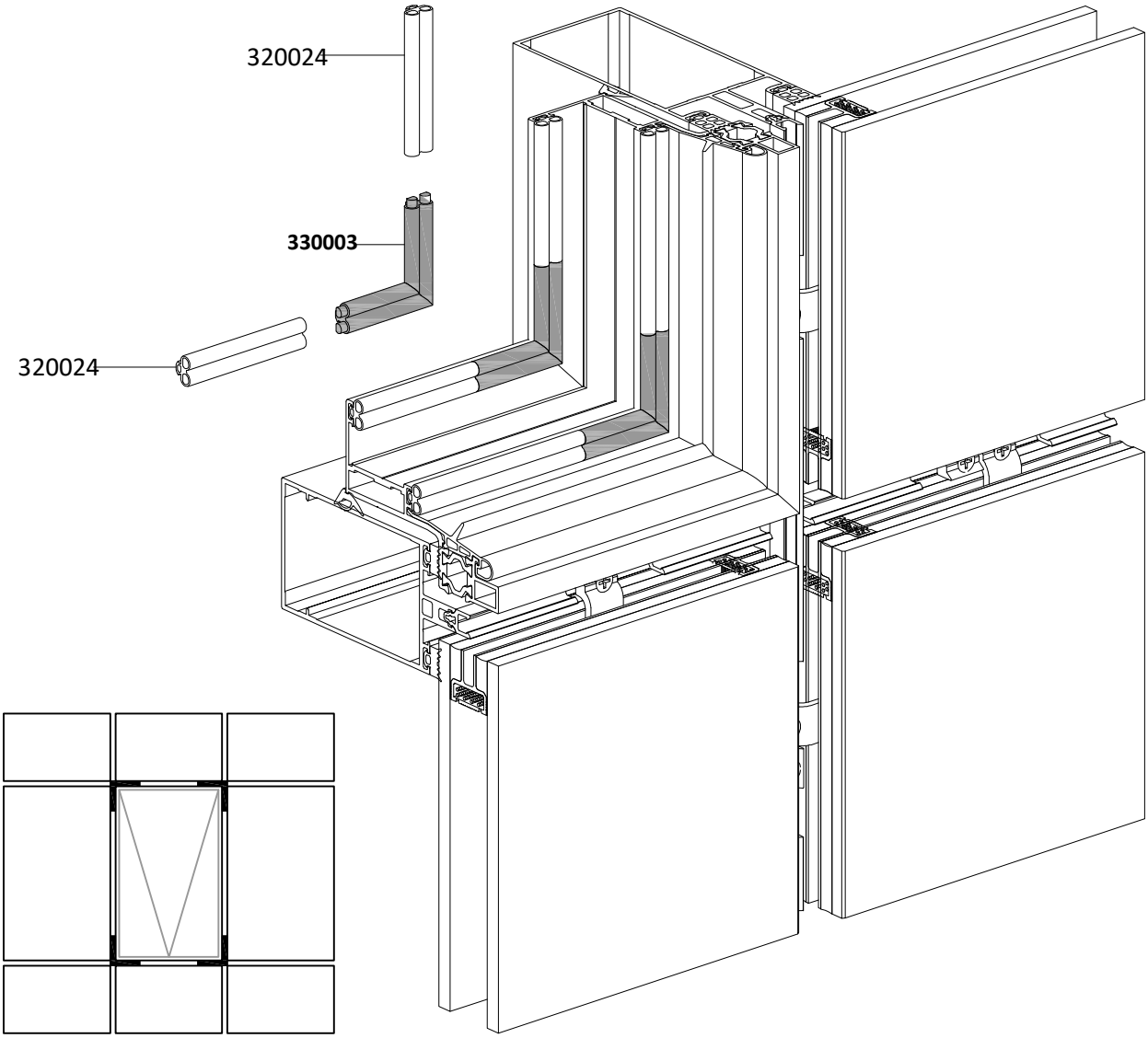
DIŞA AÇILIR KANAT İÇİN VULKANİZE KÖŞE PARÇALARI
VULCANISED CORNER PIECES FOR OUTWARD OPENING VENT



330002
(EPDM)

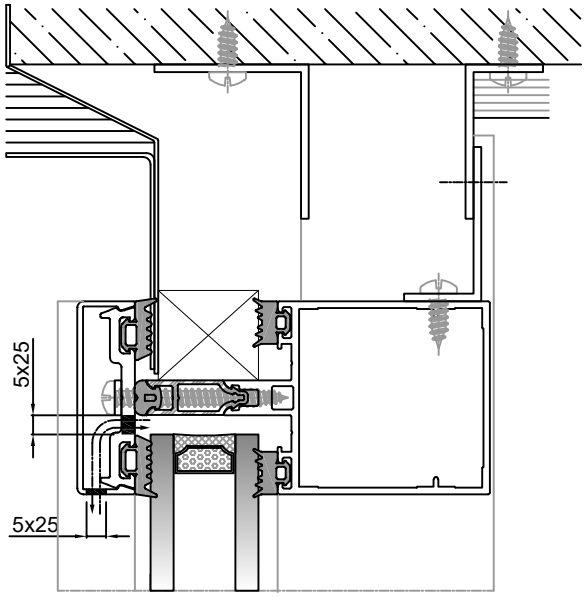
330003
(EPDM)

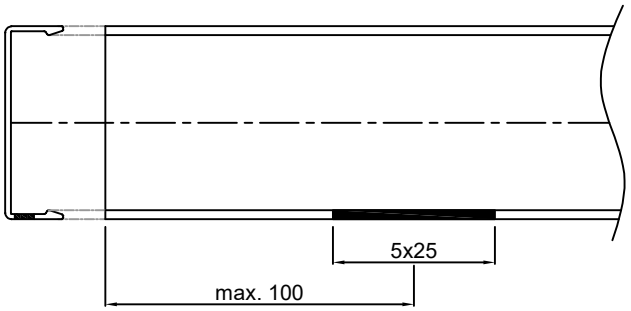


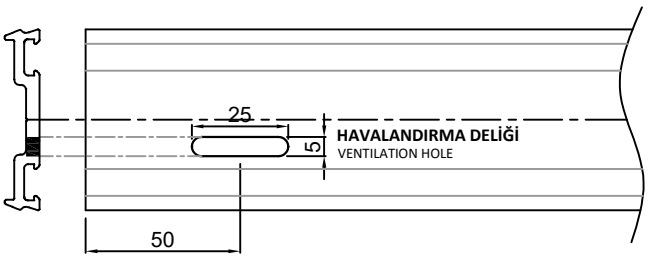


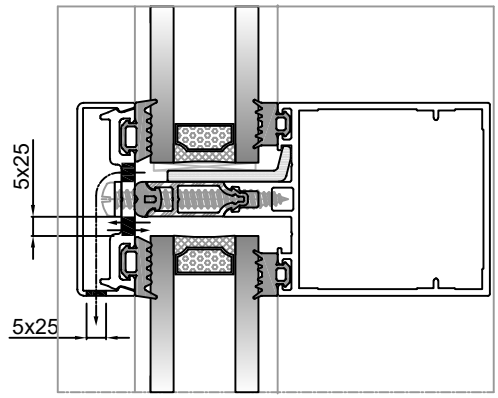
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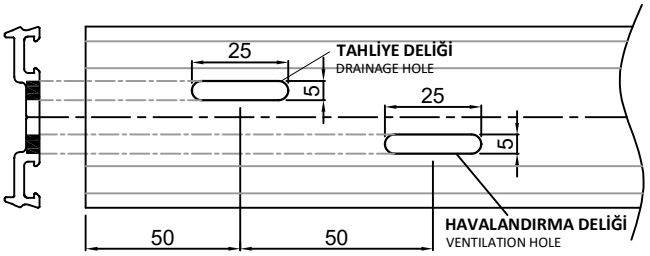
KAPAKLAR İÇİN TAHLİYE DELİK ŞEMALARI
SCHEMAS OF THE DRAINAGE HOLES FOR THE CAPS

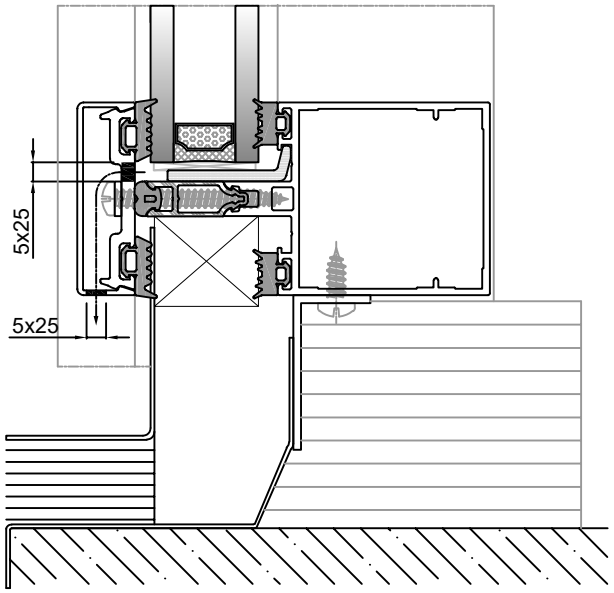


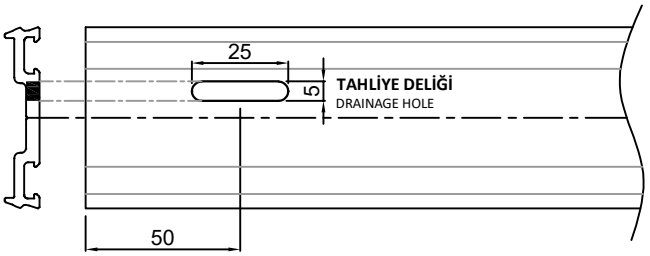












ÖNEMLİ: **AÇILAN İKİ DELİK ARASINDA HER DURUMDA EN AZ 50mm HİZA FARKI(ŞAŞIRTMA) OLMALIDIR.**

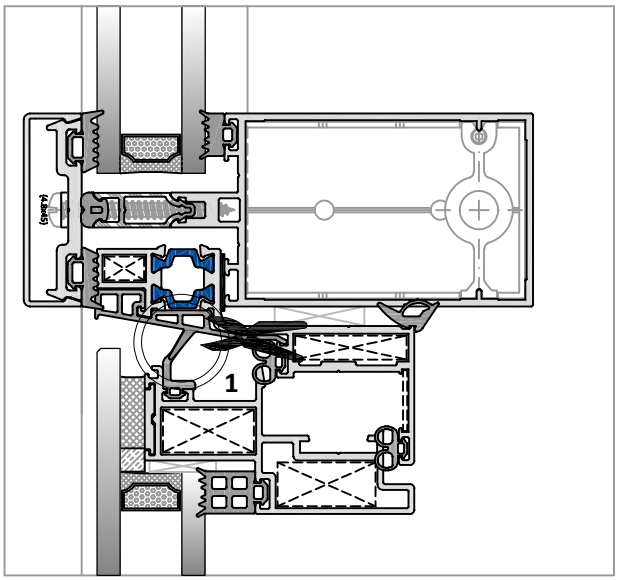
IMPORTANT: AT LEAST 50mm ALIGNING DIFFERENCE SHOULD BE MADE BETWEEN TWO HOLES EVERYTIME.

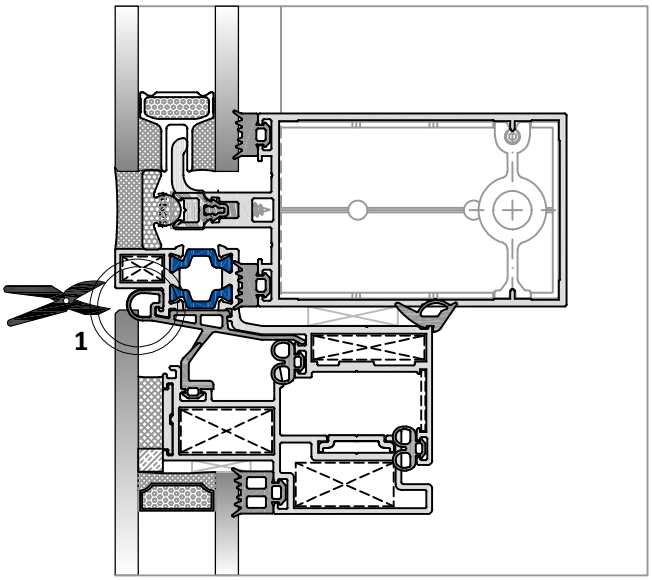
NOT: 1,5 METREDEN UZUN KAYITLARDA TAM ORTAYA İLAVE BİR TAHLİYE DAHA AÇILMALIDIR.

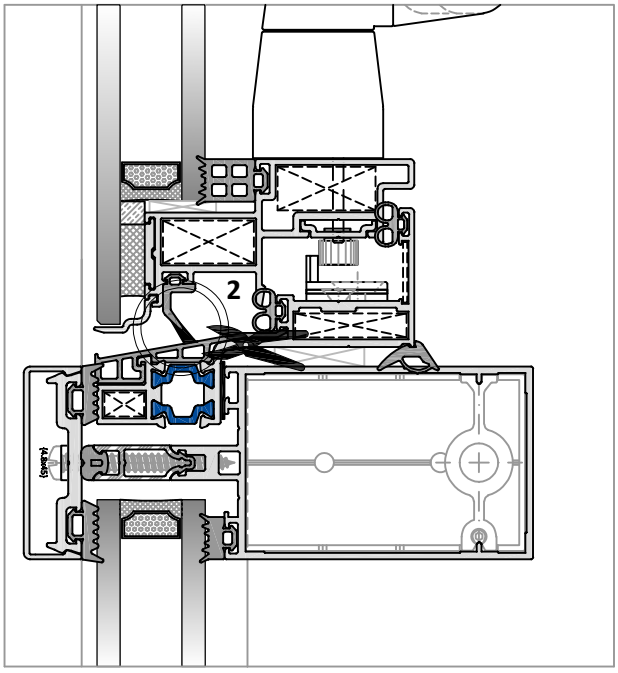
NOTE: ADDITIONAL DRAINAGE HOLE SHOULD BE REQUIRED AT THE MIDDLE FOR TRANSOMS LONGER THAN 1,5 METER.

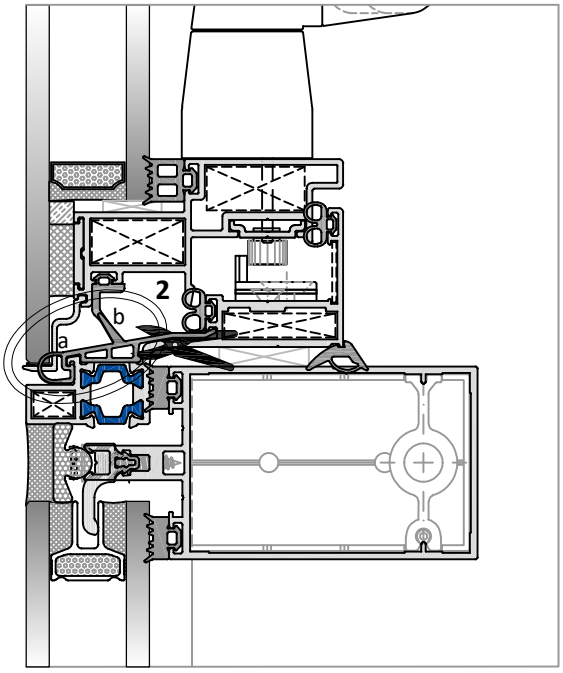
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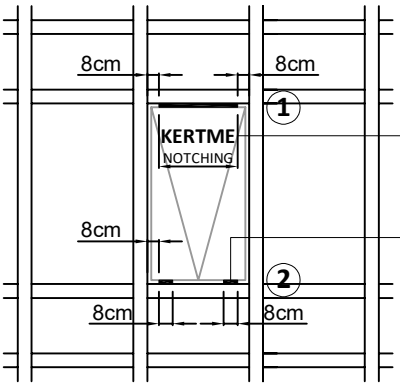
KANATLAR İÇİN TAHLİYE DELİK ŞEMALARI
SCHEMAS OF THE DRAINAGE HOLES FOR VENTS





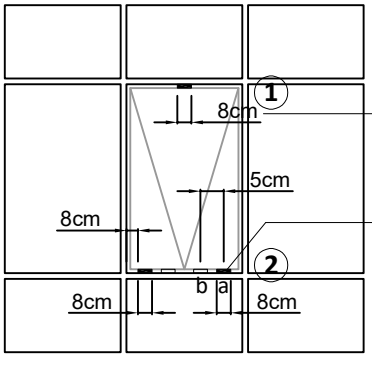






BASINÇ DENGELEME BOŞLUĞU
PRESSURE BALANCATION SPACE

ALT FİTİL TAHLİYE KERTMELERİ
DRAINAGE NOTCHES FOR THE BOTTOM GASKET



BASINÇ DENGELEME BOŞLUĞU
PRESSURE BALANCATION SPACE

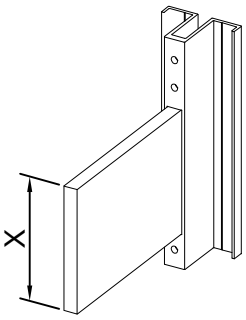
ALT FİTİL TAHLİYE KERTMELERİ
DRAINAGE NOTCHES FOR THE BOTTOM GASKET

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

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KAPAKLI CEPHEDE G.KIRICI TAŞIYICI APARAT İÇİN BAĞLANTI DETAYI

CARRIER APPARATUS FOR SUNBREAKER CONNECTION DETAIL AT THE CAPPED CURTAIN WALL

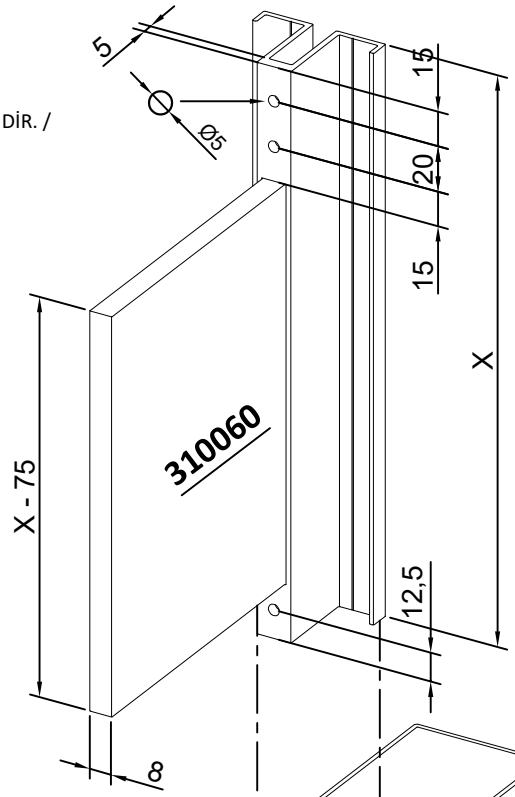


310060

(X UZUNLUĞU DEĞİŞKENDİR. /

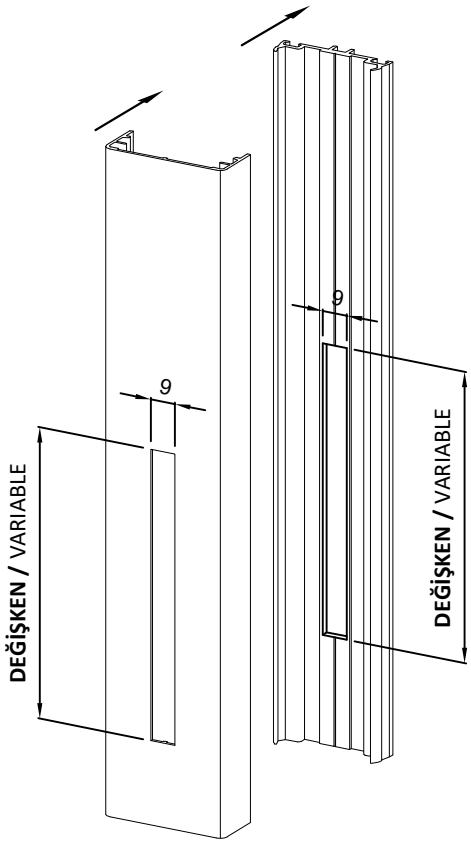
X VALUE IS VARIABLE **)**

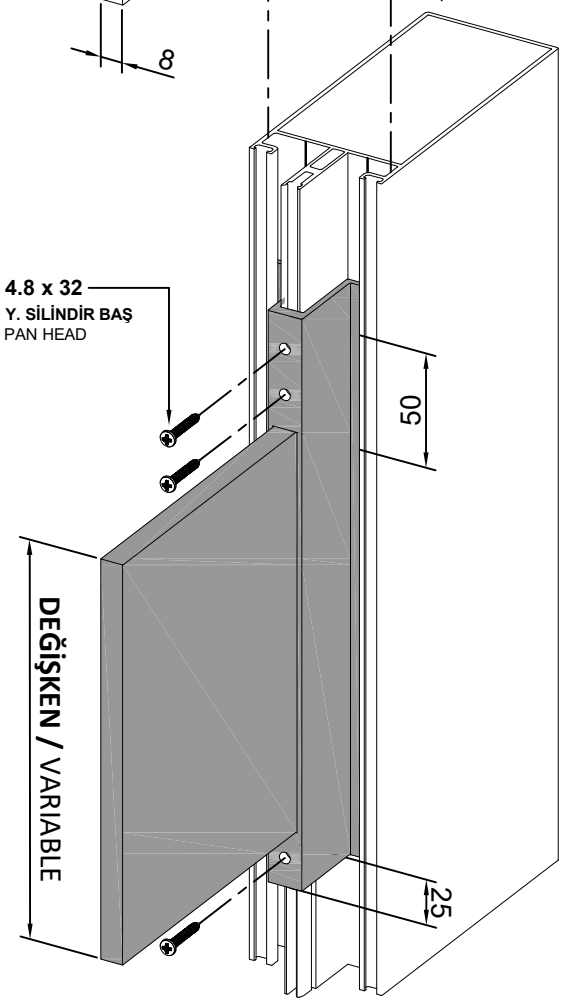
∗ SİPARİŞ VERİLİRKEN 310060 KODUYLA BİRLİKTE İSTENİLEN X UZUNLUĞU DA BELİRTİLMELİDİR.
WHEN ORDERING X VAULE SHOULD BE SPECIFIED TOGETHER WITH THE CODE OF 310060.



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

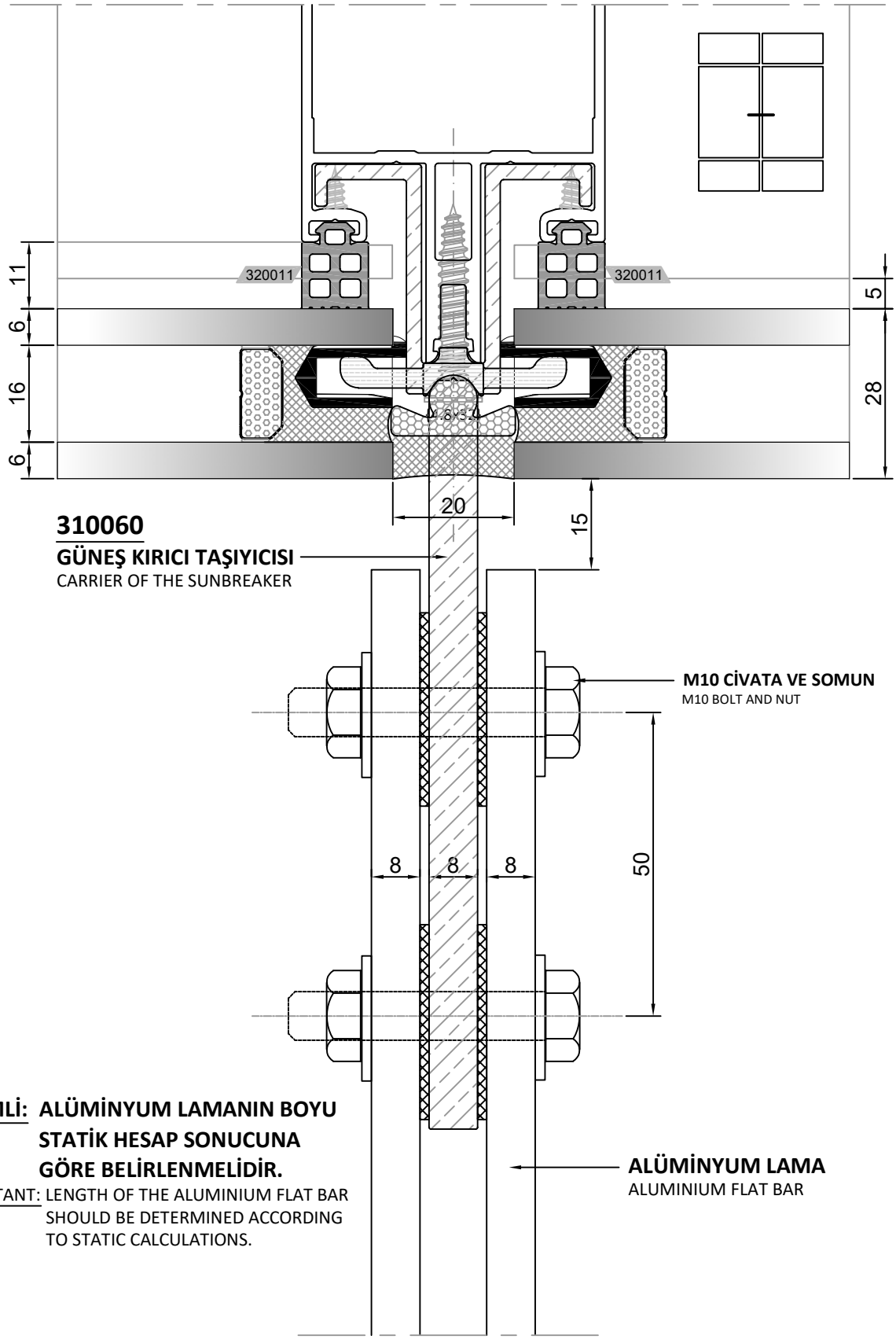
IMPORTANT: LENGTH OF THE CARRIAGE PART SHOULD BE CALCULATED ACCORDING TO THE WIDTH OF THE ALUMINIUM ROD AND THE TOTAL WEIGHT APPLIED FROM THE SUNBREAKERS.





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



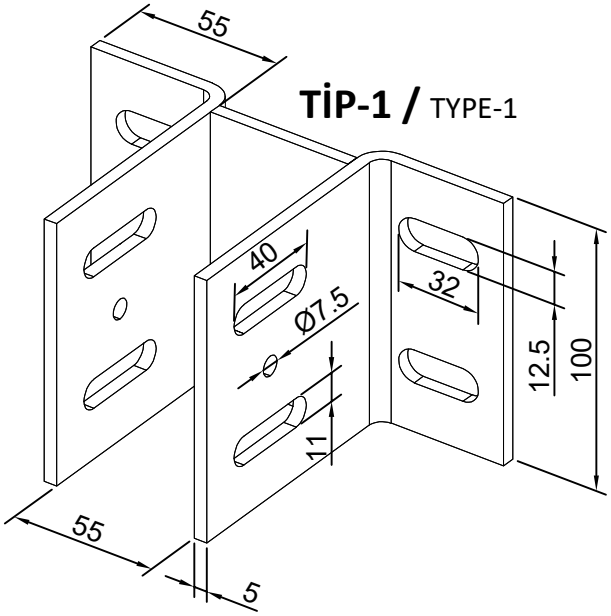
ÖNEMLİ: ALÜMİNYUM LAMANIN BOYU STATİK HESAP SONUCUNA GÖRE BELİRLENMELİDİR.

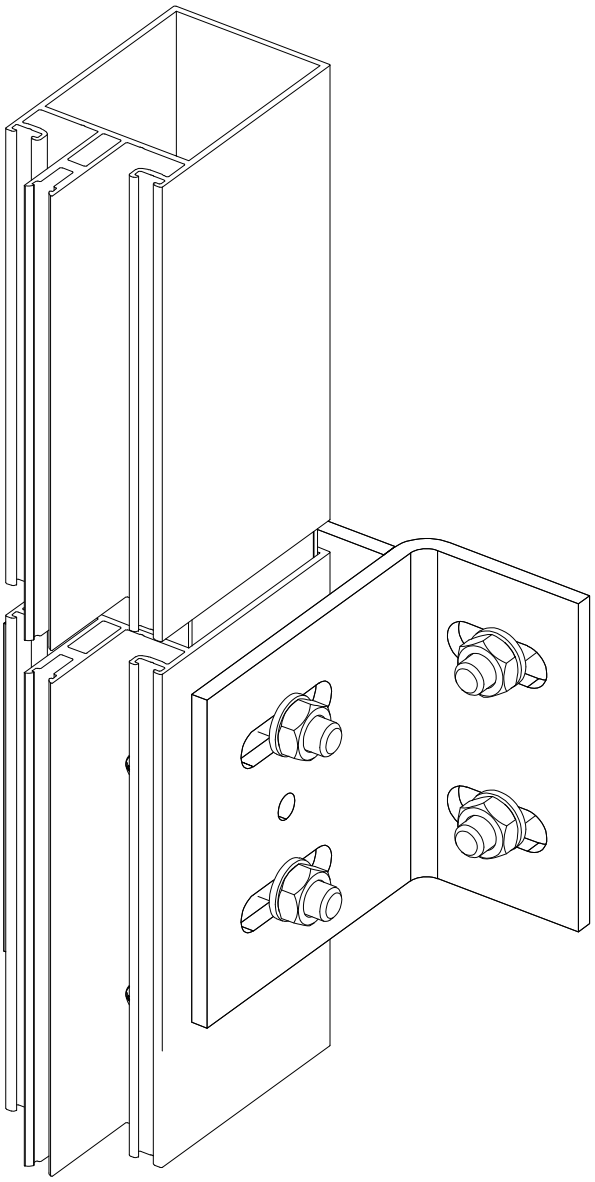
IMPORTANT: LENGTH OF THE ALUMINIUM FLAT BAR SHOULD BE DETERMINED ACCORDING TO STATIC CALCULATIONS.

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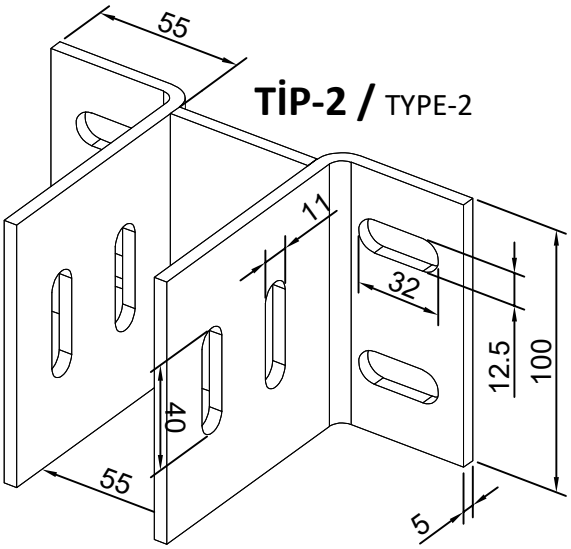
ANKRAJLAR
ANCHORAGES

TİP-1 / TYPE-1

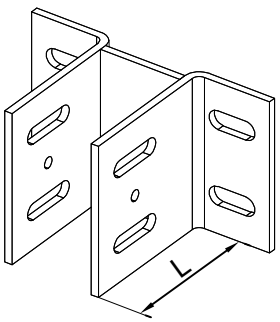




TİP-2 / TYPE-2

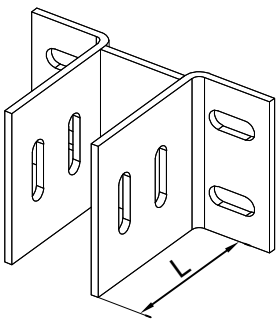


YATAY BAKLALI SABİT ANKRAJ
HORIZONTAL MOVABLE FIXED ANCHORAGE



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
VERTIVAL MOVABLE FIXED ANCHORAGE



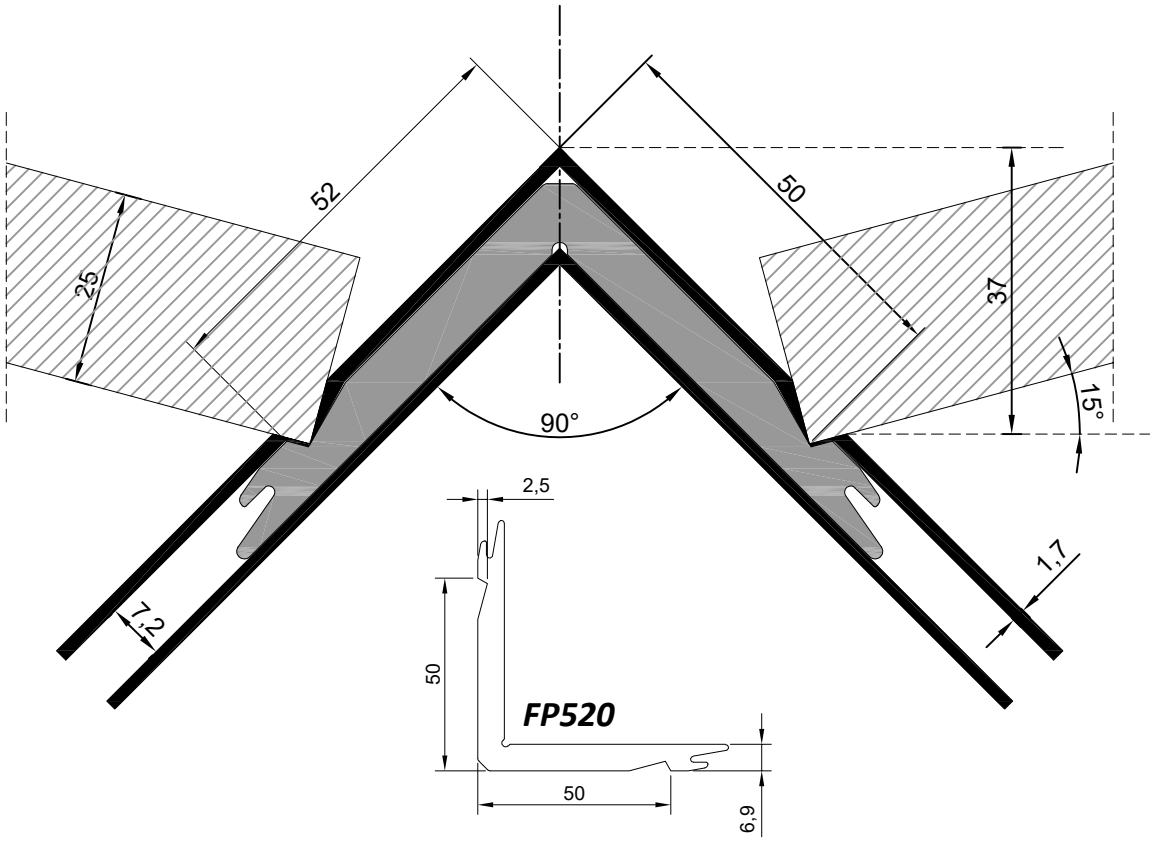
ÜRÜN KODU PRODUCT CODE	BAYRAK UZUNLUĞU (L) EXTENSION LENGTH (L)
360007	80 mm
360008	100 mm
360009	120 mm
360010	150 mm
360011	200 mm

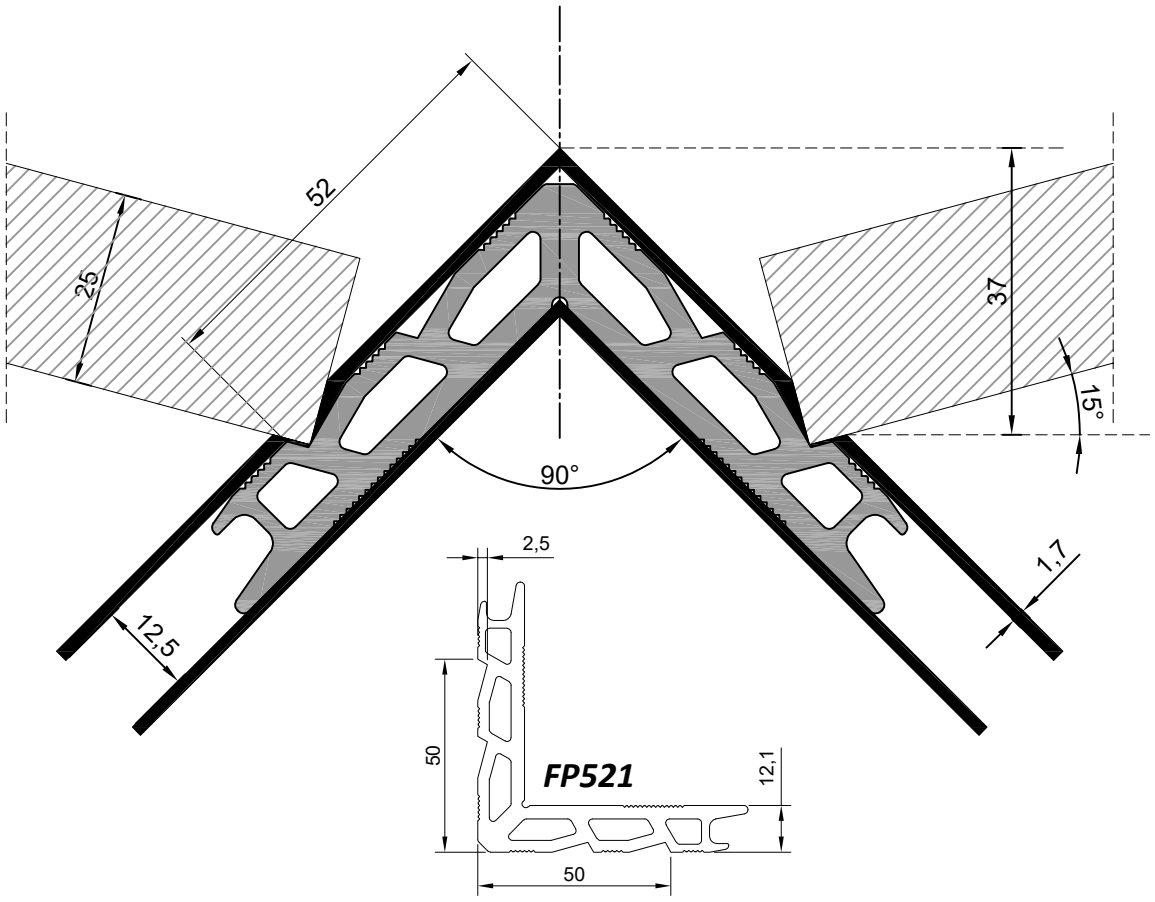
* **BAYRAK UZUNLUKLARI TAŞIYICI DİKME DERİNLİKLERİNE VE YAPININ DÖŞEME ALIN HİZA FARKLARINA GÖRE DEĞİŞMEKTEDİR.**
EXTENSION LENGTHS CHANGE ACCORDING TO THE MULLION DEPTH AND FRONT LEVEL DIFFERENCES OF THE FLOOR.

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

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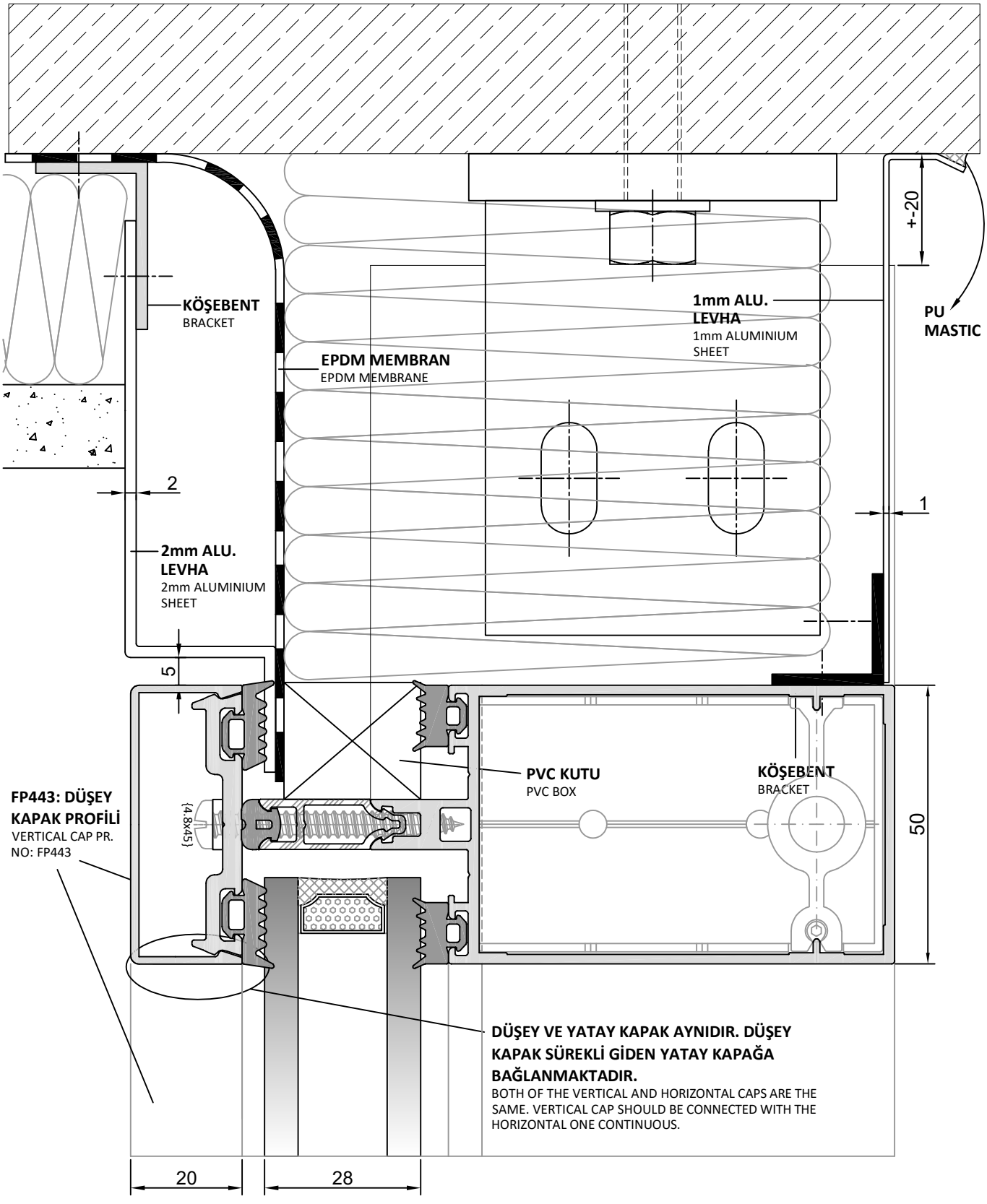
KÖŞE TAKOZU BİRLEŞİM DETAYLARI
CORNER CLEAT CONECTION DETAILS





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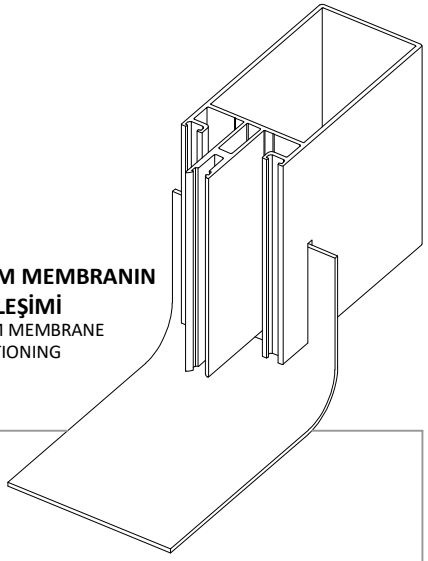
ÖRNEK CEPHE ÜST BİTİŞ DETAYI
TOP END DETAIL EXAMPLE OF THE CURTAIN WALL



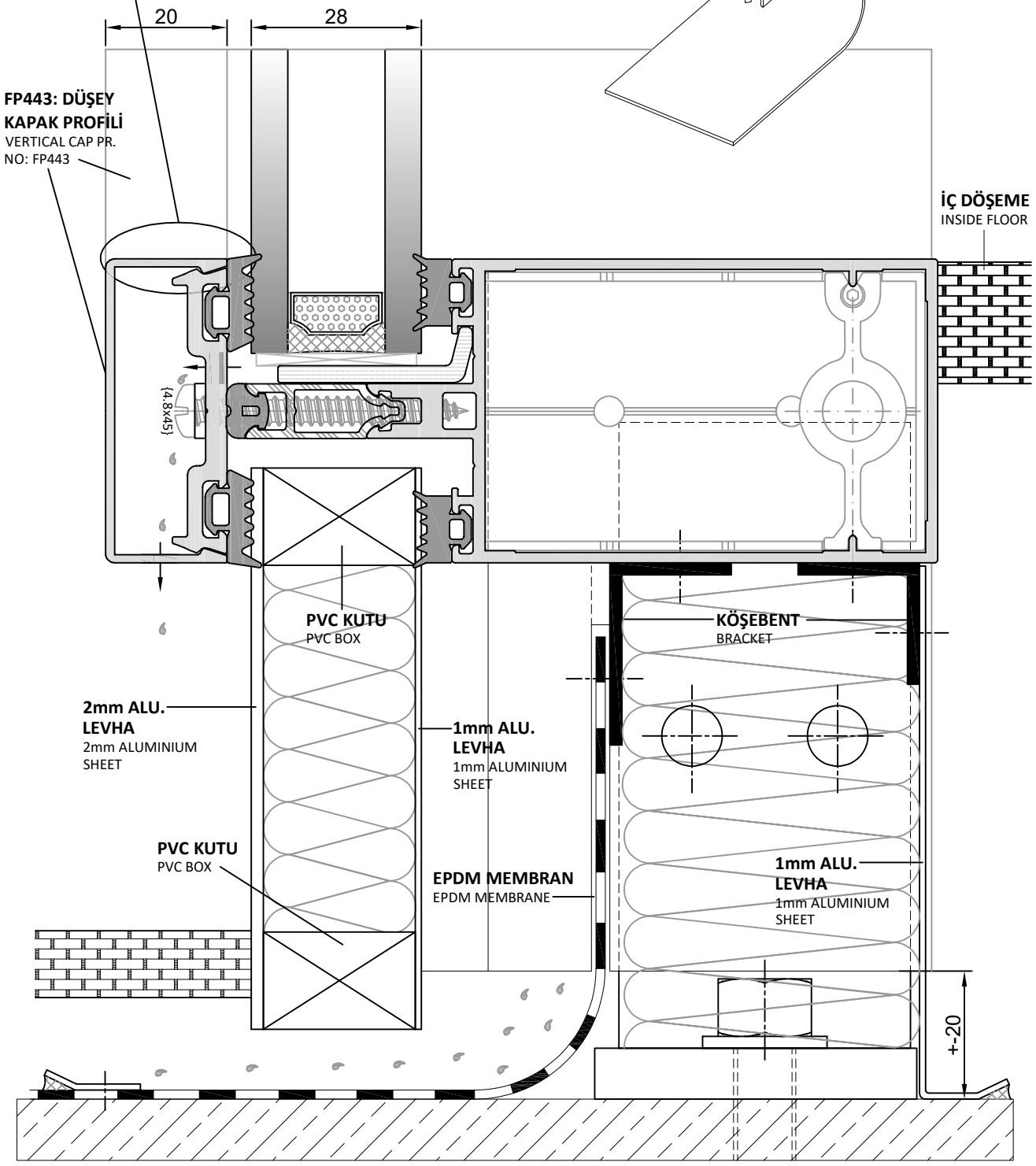
Katalogdaki profil ağırlıkları teoriktir. Teslimat öncesi ölçülen değerler geçerlidir.
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ÖRNEK CEPHE ALT BİTİŞ DETAYI
BOTTOM END DETAIL EXAMPLE OF THE CURTAIN WALL

BU BÖLGEDE DÜŞEY VE YATAY KAPAKLAR AYNIDIR. 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



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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 eloksalı 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 taktirde 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 comsumables 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.

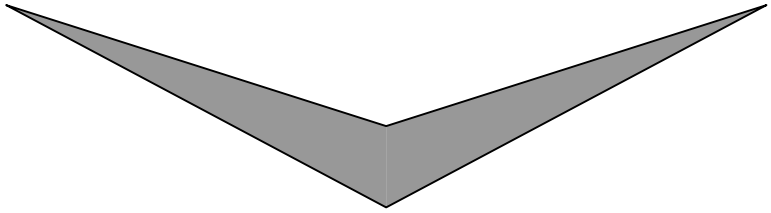
Builder is responsible for all conditions by using of accessories and consumables that did not confirmed by Sistem Aluminium are not mentioned in catalogue of Architectural System.

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.

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SERTİFİKALAR

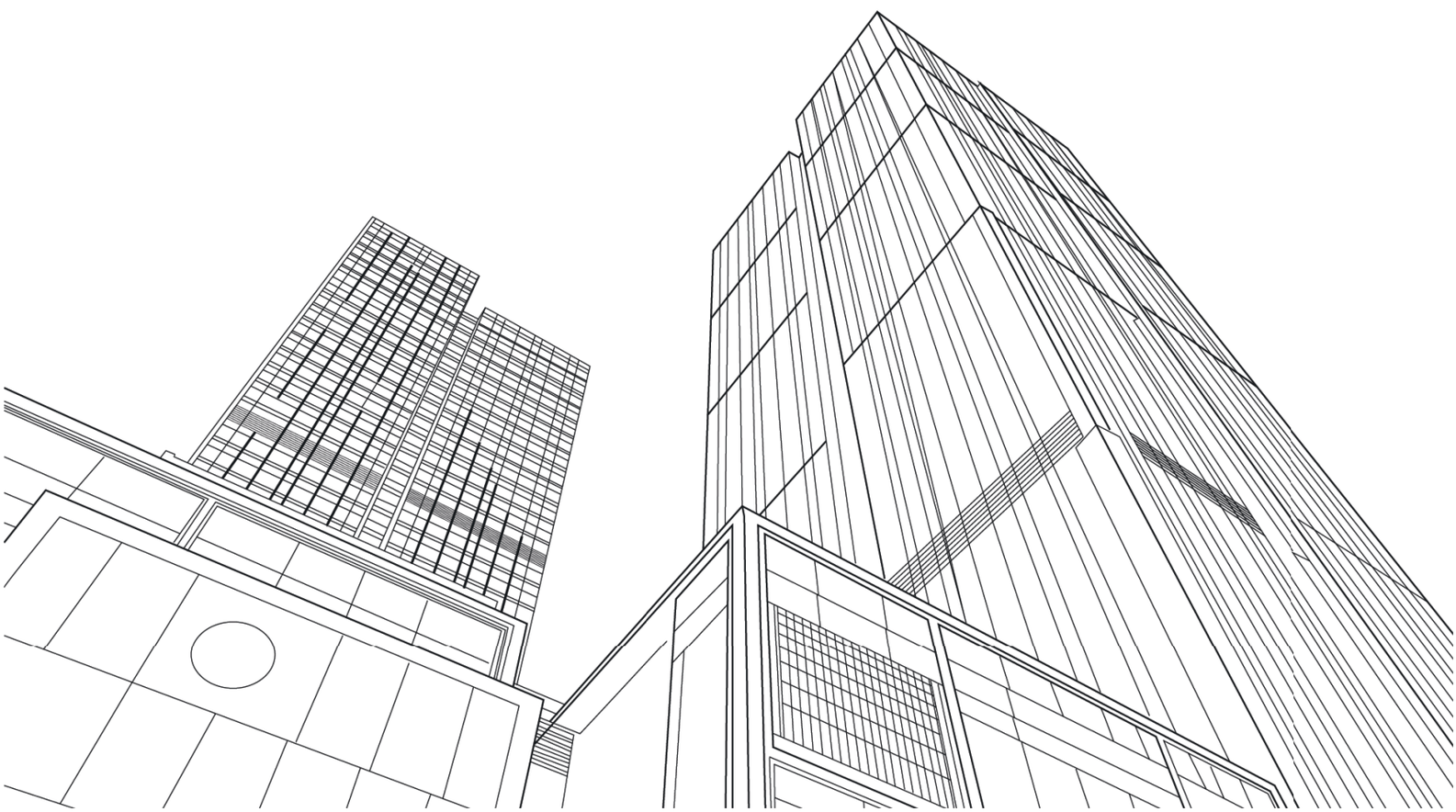
CERTIFICATES



Sistem Al
ALÜMİNYUM

TS 4922 TS 755-1 TS 12020-1

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You can scan the QR code to view the certificates.





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