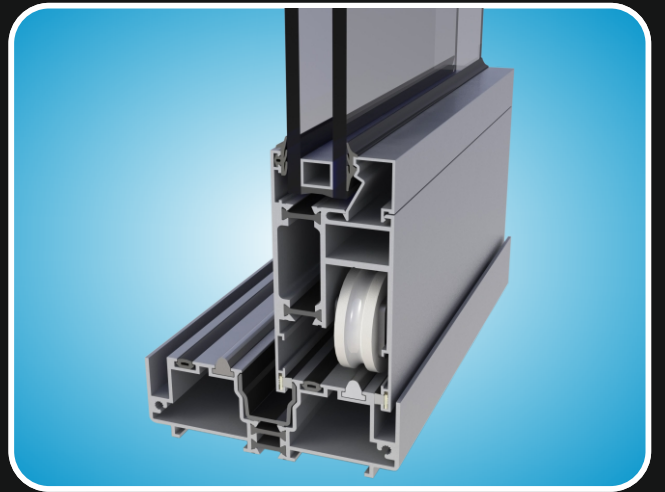
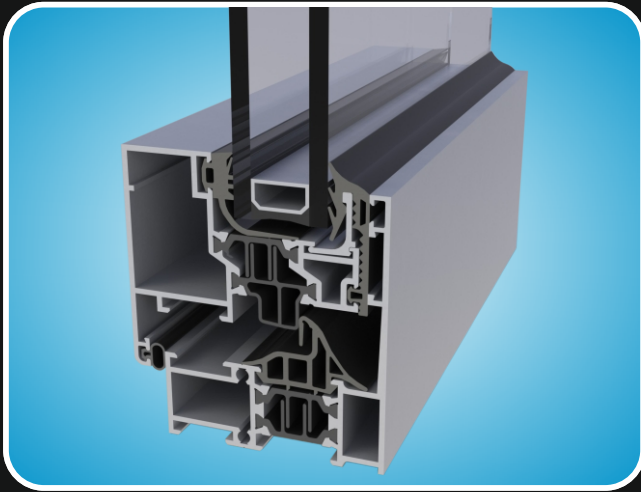
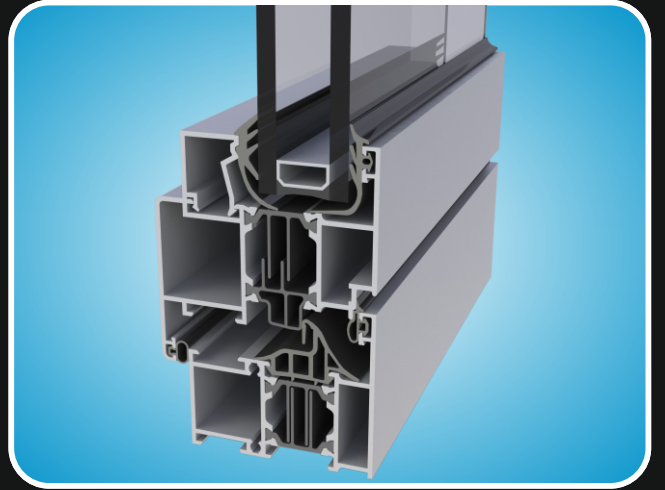




DOĞRAMA SİSTEMLERİ



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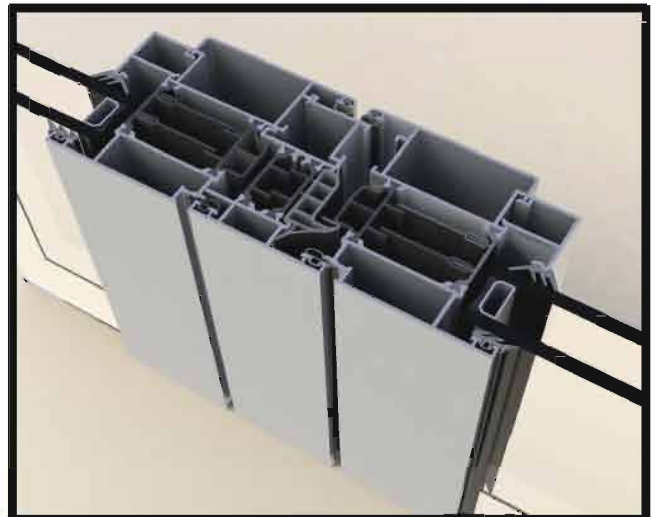
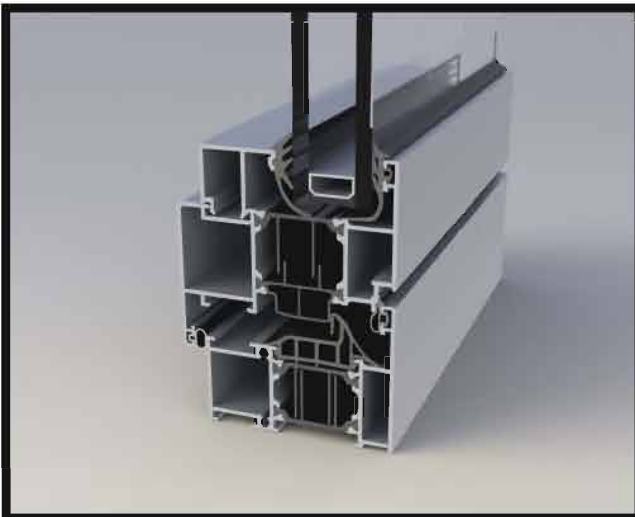
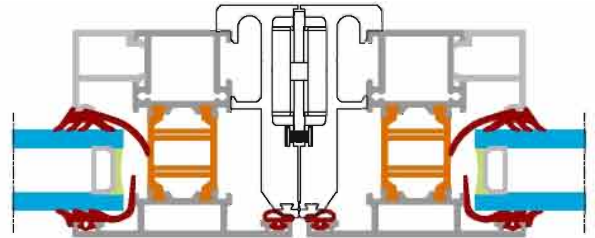
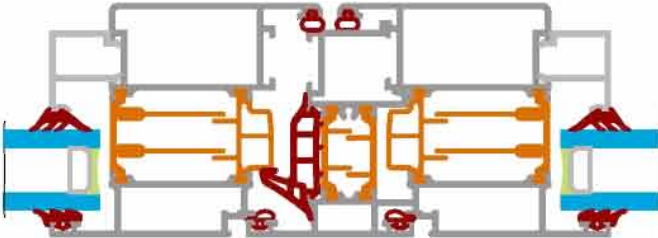
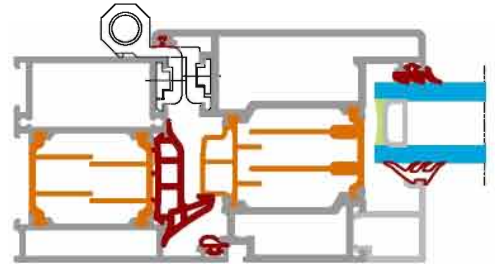
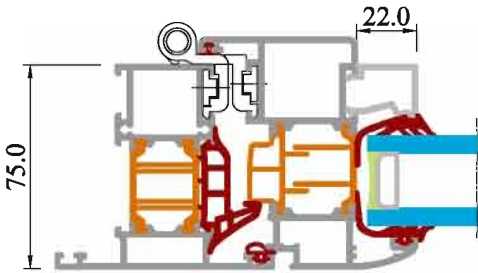


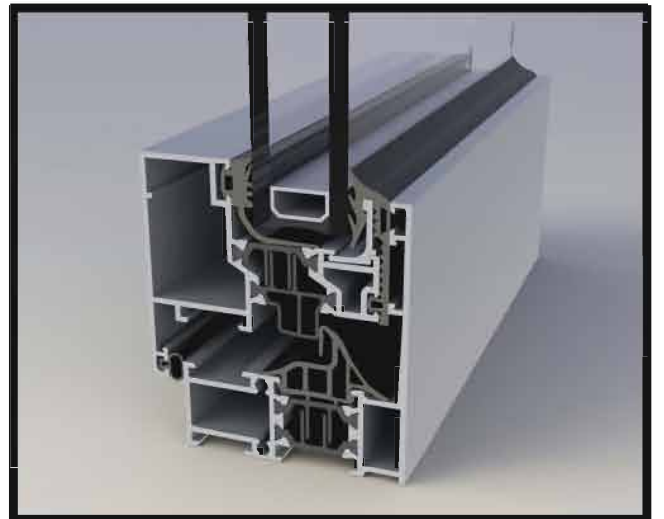
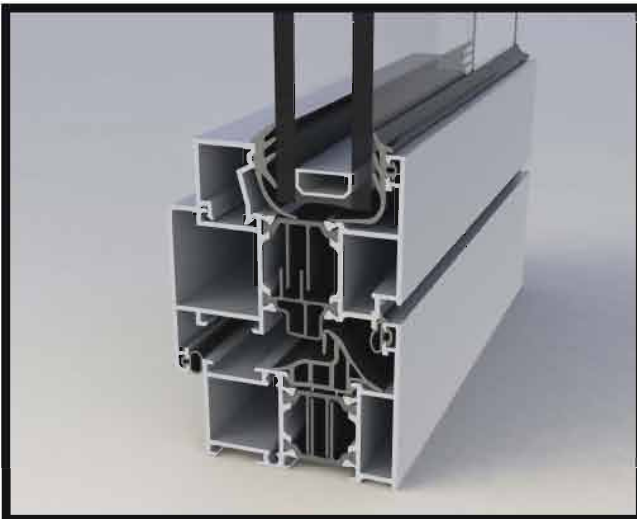
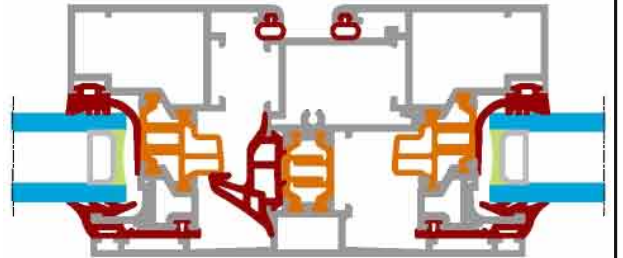
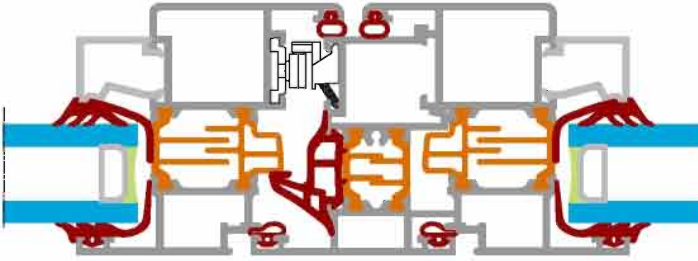
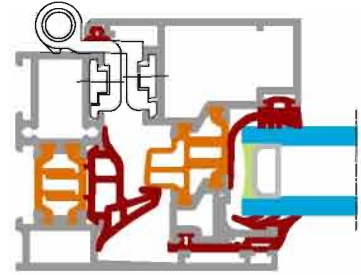
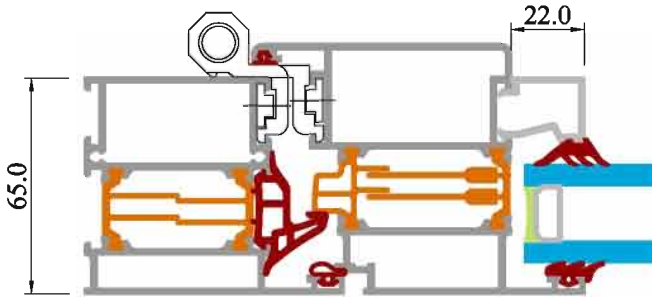
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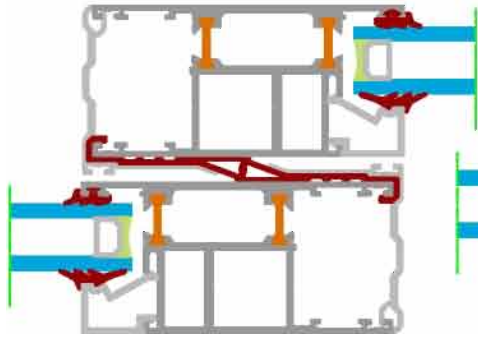
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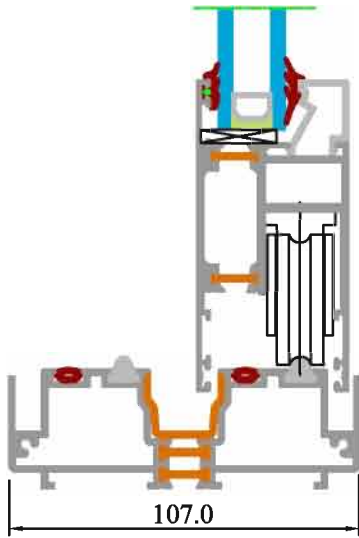
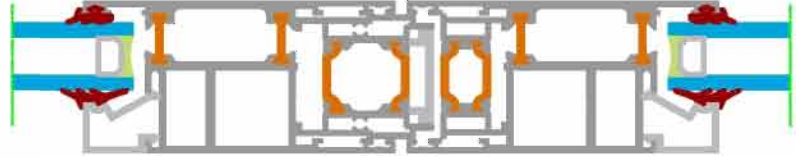
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Please don't hesitate to e-mail gencer@gencer.com.tr for any question.

W75**DOĞRAMA SİSTEMİ***Kasa / Kanat derinliği : 75mm / 85mm**Et kalınlığı : 1.6mm ve 2.0mm**Isı yalıtımlı : 34mm ($U_f=1.79, U_w=1.57 \text{ W/m}^2\text{K}$)**Euro normlarında aksesuar kanalı*

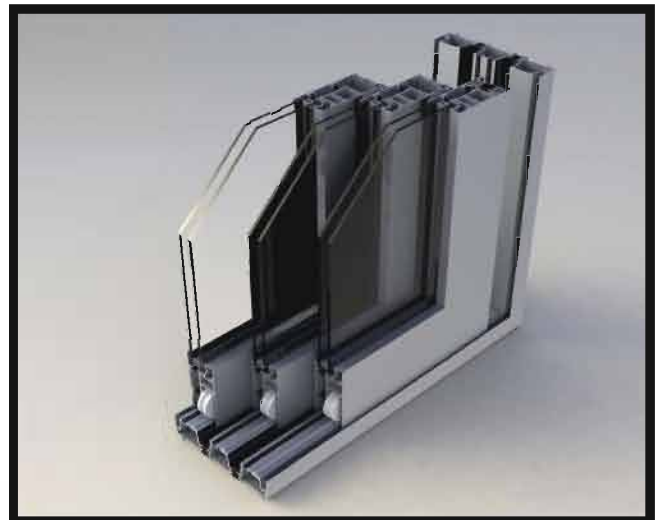
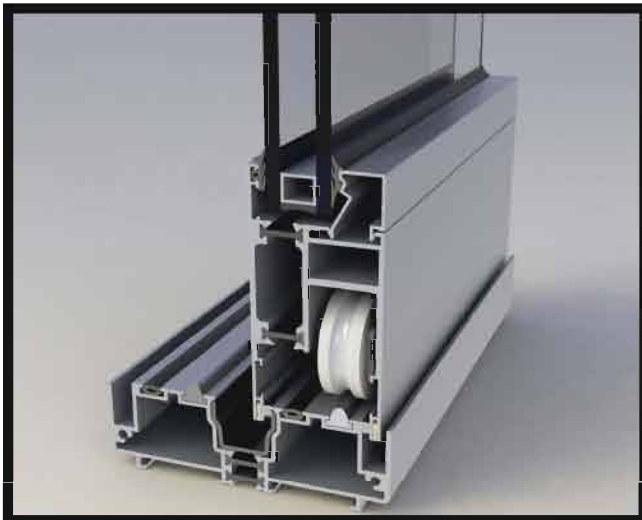
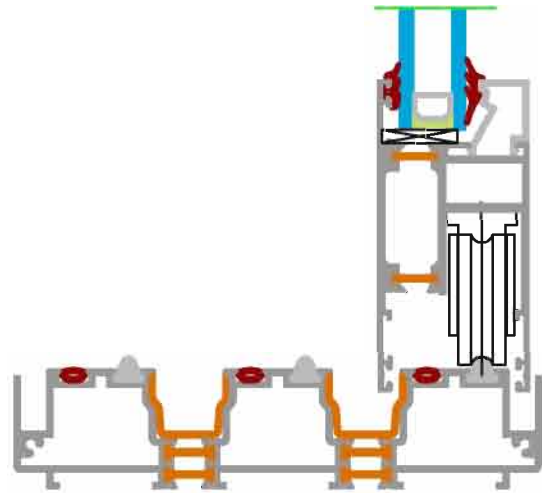
W65**DOĞRAMA SİSTEMİ***Kasa / Kanat derinliği : 65mm / 75mm**Et kalınlığı : 1.6mm ve 2.0mm**Isı yalıtımlı : 24mm ($U_f=2.016, U_w=1.66W/m^2K$)**Euro normlarında aksesuar kanalı*

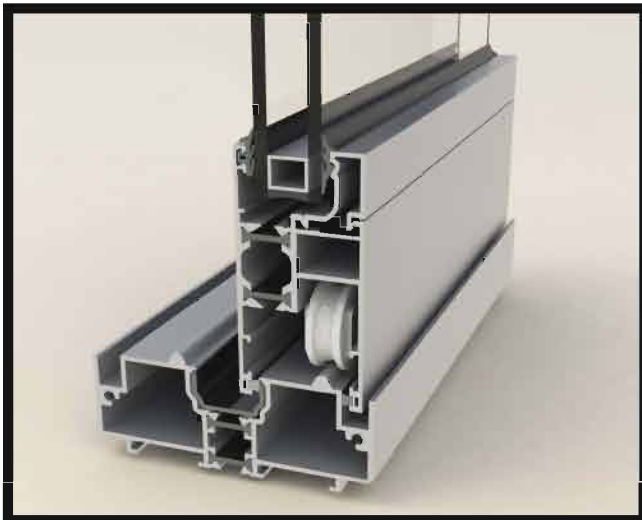
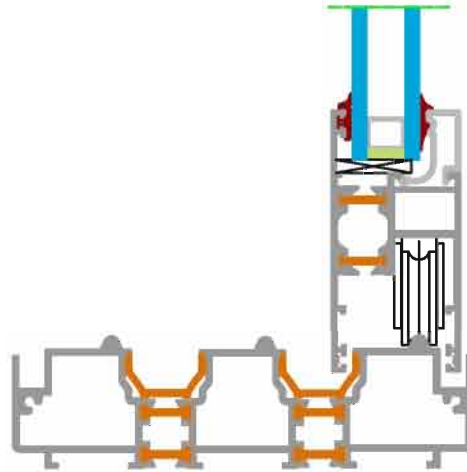
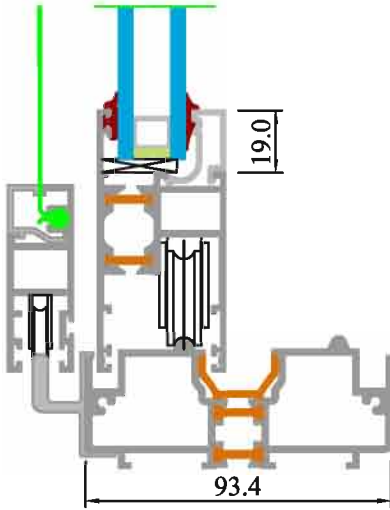
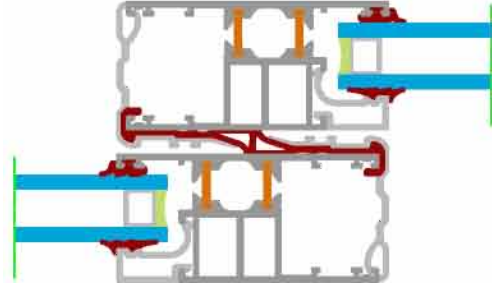
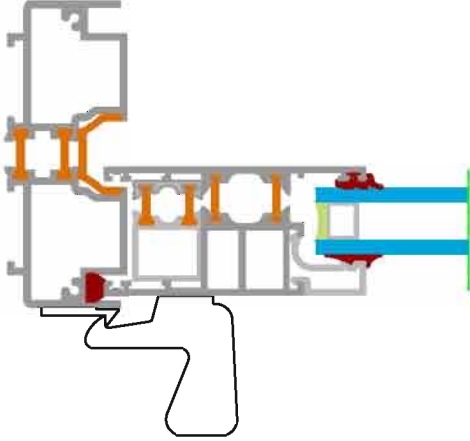
S32**GENİŞ SÜRME SERİ***Kasa / Kanat derinliği : 107mm / 95mm**Isı yalıtımlı : 15mm**Hebe schiebe uygulama imkanı**2 ve 3 raylı olarak dizayn edilebilir*

19.0



107.0

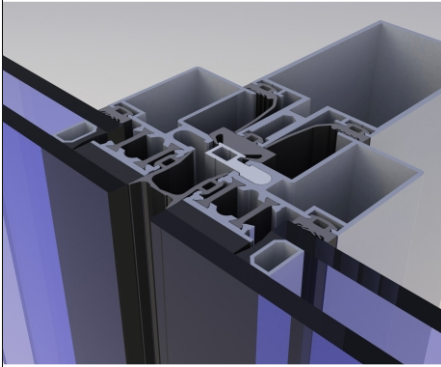


S32**DAR SÜRME SERİ***Kasa / Kanat derinliği : 93mm / 80mm**Isı yalıtımlı (pvc/ polyamid)**Hebe schiebe uygulama imkanı**2 ve 3 raylı olarak dizayn edilebilir*



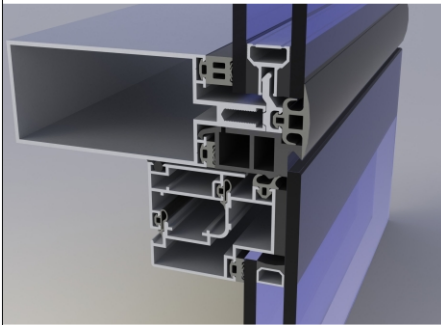
Detaylı **teknik** 
kataloğumuzu isteyiniz !

Sistemlerimiz FTI testlerinde
1050 PA hava geçirimsizlik
ve 1050 PA su **sızdırmazlık**
performansı göstermiştir.



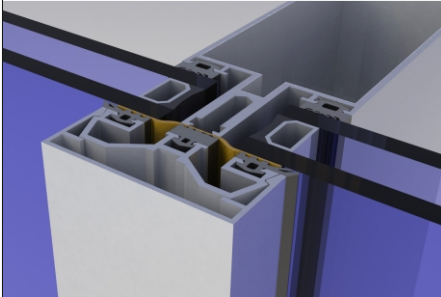
■ F50S - SİLİKON CEPHE

- Tamamen cam görünümlü giydirme cepheler için kullanılır
- Isı yalıtım ihtiyacına göre 4 farklı altsistem uygulanır;
F50S/I, F50S/I+, F50S/HI, F50S/HI+
- 6 farklı kaset seçeneği vardır



■ F50KS - KENETLİ SİLİKON CEPHE

- Kenetlenmeye olanak veren özel ısıcam çıtaları ile montaj
- Ek kaset profilleri kullanılmadığı için ekonomiktir
- Güvenlik çıtaları ile desteklenir
- Derz örtüsü için 3 farklı alternatif bulunur



■ F50K - KAPAKLI CEPHE

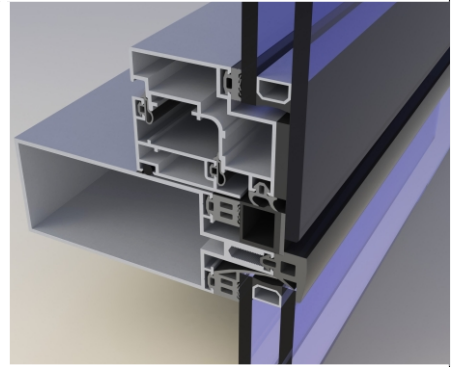
- Yatay ve düşeyde alüminyum çizgiler görülmek istendiğinde;
- Ekonomik yada yalıtımlı sistem seçenekleri bulunur
- Dışa açılan gizli kanat uygulaması ile havalandırılır
- Düz, açılı ve badem kapak seçenekleri bulunur
- Menteşeli doğrama açılımı yapılabilir

F50 CEPHE SİSTEMLERİ

50mm genişliğinde 24 farklı yatay ve düşey taşıyıcı profiller
Bindirmeli veya hemiyüz montaj için farklı yatay taşıyıcı profiller
Düşük ısı geçirim değerleri ve hava, su, rüzgar test performansları
PVC tamamlayıcı aksesuarlar, geniş yelpazede silikon ve EPDM fitiller

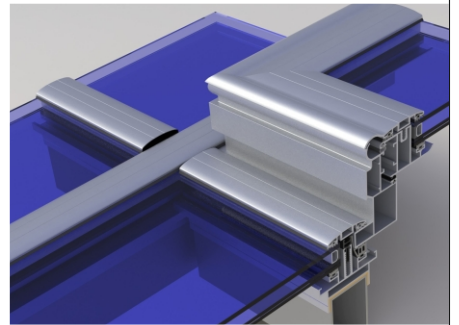
■ F50YK - YARI KAPAKLI CEPHE

- Sadece yatayda yada sadece düşeyde, paralel alüminyum çizgiler görülmek istendiğinde kullanılır
- Ekonomik yada yalıtımlı sistem seçenekleri bulunur
- Dışa açılan gizli kanat uygulaması ile havalandırılır
- Düz, açılı ve badem kapak seçenekleri bulunur.



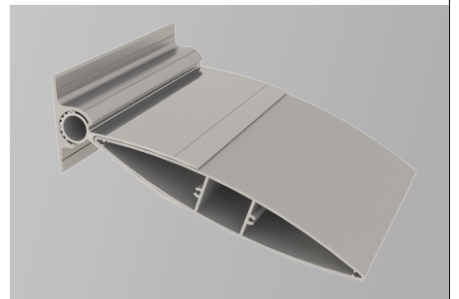
■ F50SKY - IŞIKLIK SİSTEMİ

- Geniş açıklıktaki çatı ışıklıklarında, doğal ışığın istendiği mekanlarda, estetik ve fonksiyonelliği ile tercih edilen güvenilir sistem
- Motorlu açılımlara uygun dizayn edilmiştir
- Geniş drenaj kanalları bulunur



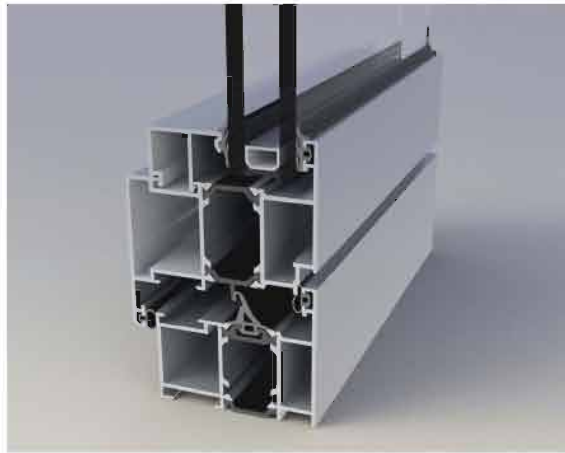
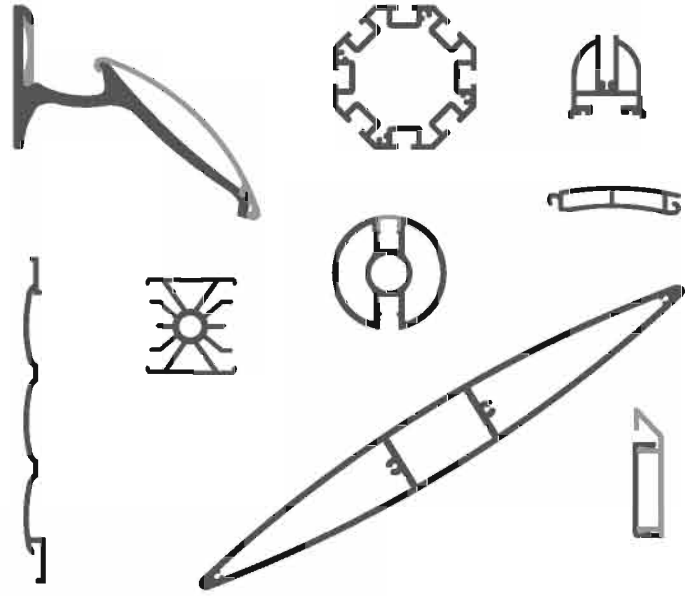
■ GÜNEŞ KIRICI SİSTEMİ

- Güneş ışığının etkilerini en aza indirirken özellikle giydirme cephelerde estetik bir görünüm sağlar
- İstediğiniz montaj tipine cevap verebilecek, ayarlı başlıklar ve farklı ölçülerde taşıyıcılar bulunur
- 30 cm'e kadar farklı boyutlarda çeşitlilik gösterir.





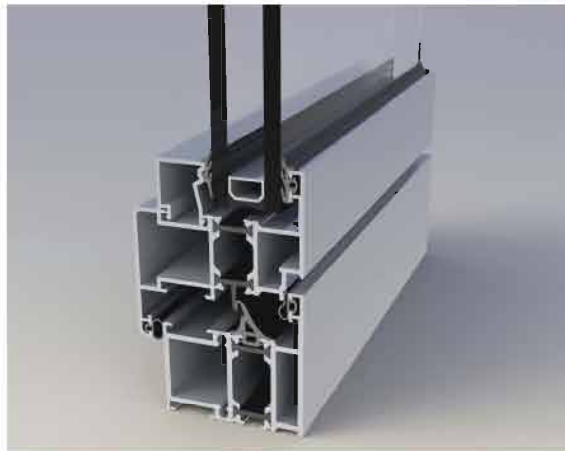
Yanda görülen Gençer Alüminyum - TEKNİK KATALOG 2010, Gençer Alüminyum'un geçmişten günümüze bir çok saygın projede kullanılan doğrama sistem serilerini ve diğer tüm profil serilerini içerir. Sayfa 8-9-10'da bu katalogta yer alan profil ve sistemlerimizin öngörünümlerine yer verilmiştir.



GENÇER S65

PENCERE SİSTEMİ / WINDOW SYSTEM

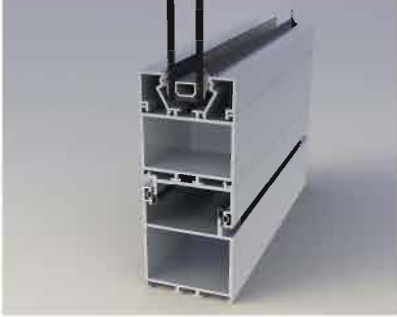
Kasa derinliği: 65mm
 Kanat derinliği: 75mm
 Et kalınlığı: 1.3mm, 1.6mm, 1.8mm, 2.0mm
 Isı yalıtımlı (PVC / polyamid): 22.0mm
 Cam boşluğu 12 - 49mm arasında



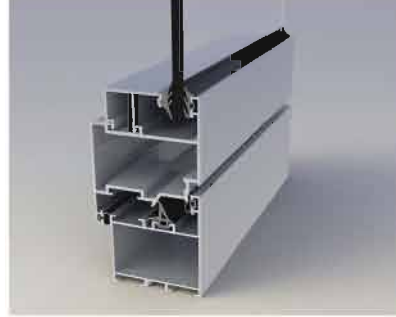
GENÇER S14

PENCERE SİSTEMİ / WINDOW SYSTEM

Kasa derinliği: 55mm
 Hemyüz kanat derinliği: 65mm
 Fugalı kanat derinliği: 58.5
 Et kalınlığı: 1.2mm, 1.6mm, 1.8mm, 2.0mm, 3.0mm
 Isı yalıtımlı (PVC / polyamid): 15.0mm
 Cam boşluğu 4 - 39mm arasında
 Gizli kanat seçeneği

BENÇER G55
 BALKON & VİTRİN SİSTEMİ
 BALCONY & SHOPWINDOW SYSTEM


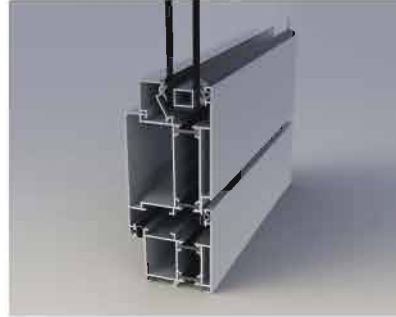
Kasa derinliği: 55mm
 Kanat derinliği: 55mm
 Et kalınlığı(mm): 1.8mm
 Cam boşluğu 4-35mm arasında
 Hemyüz menteşe uygulanabilir

BENÇER S12
 PENCERE SİSTEMİ / WINDOW SYSTEM


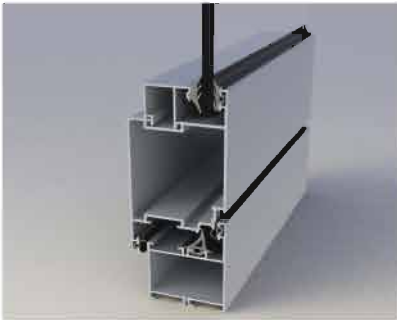
Kasa derinliği: 45mm
 Hem yüz kanat derinliği: 65mm
 Fugalı kanat derinliği: 58.5
 Et kalınlığı(mm): 1.2, 1.8, 2.0
 Cam boşluğu 4-39mm arasında
 G55 balkon & vitrin sistemi ile entegre çalışır.

BENÇER S45
 PENCERE SİSTEMİ / WINDOW SYSTEM

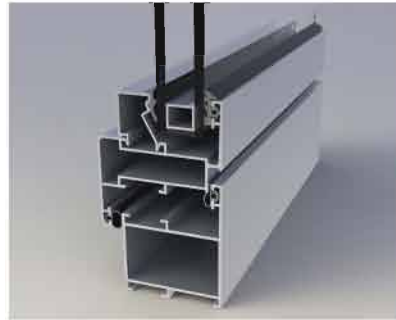

Ekonomik Sistem
 Kasa derinliği: 45mm
 Kanat derinliği: 55mm
 Et kalınlığı(mm): 1.2, 1.6
 Isı yalıtımlı : 15mm
 Cam boşluğu 4-30mm arasında

BENÇER S14/45
 PENCERE SİSTEMİ / WINDOW SYSTEM


Ekonomik Sistem
 Kasa derinliği: 45mm
 Kanat derinliği: 55mm
 Et kalınlığı(mm): 1.2, 1.6
 Isı yalıtımlı : 15mm

BENÇER S44
 PENCERE SİSTEMİ / WINDOW SYSTEM


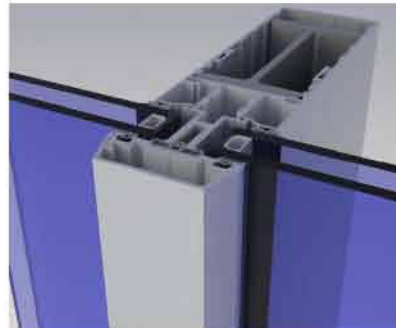
Ekonomik Sistem
 Kasa derinliği: 45mm
 Kanat derinliği: 55mm
 Et kalınlığı(mm): 1.2, 1.6

BENÇER S12/45
 PENCERE SİSTEMİ / WINDOW SYSTEM


Ekonomik Sistem
 Kasa derinliği: 45mm
 Kanat derinliği: 55mm
 Et kalınlığı(mm): 1.2, 1.6

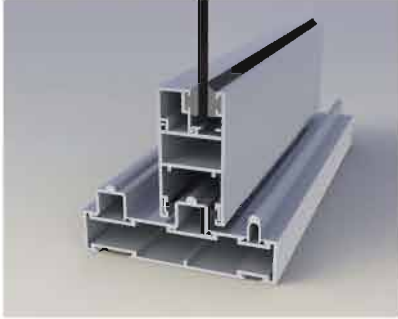
BENÇER S35
 VİTRİN SERİSİ / SHOPWINDOW SYSTEM


Oval Seri
 Kasa derinliği: 66mm
 Kanat derinliği: 66mm
 Et kalınlığı(mm): 1.4, 1.6

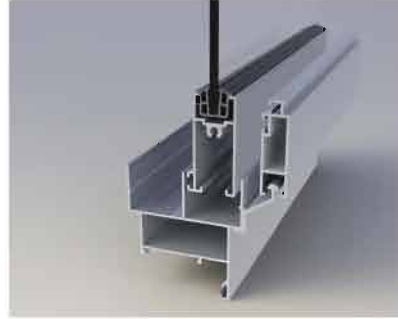
BENÇER S23
 CEPHE SİSTEMİ / FACADE SYSTEM


Çelik Takviyeli Sistem
 Taşıyıcı genişliği: 62mm

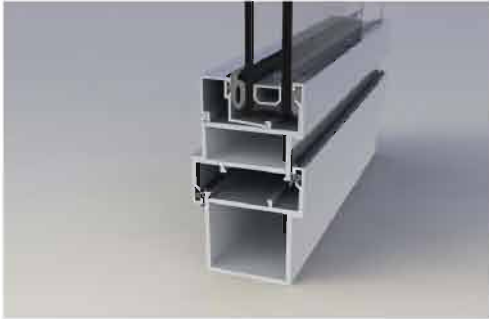
TUBA SÜRME SERİ S31
NON-INSULATED SLIDING SERIE



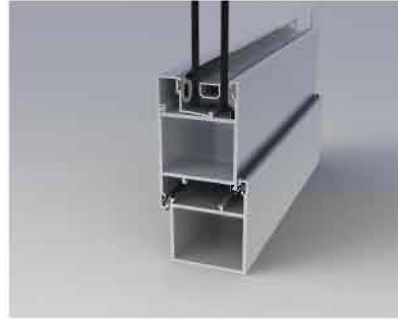
İZMİR SÜRME SERİ S33
NON-INSULATED SLIDING SERIE



FUGALI KLASİK SERİ S15
ALDOX SERIE



DÜZ KLASİK SERİ S17
ALDOX SERIE





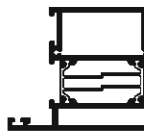
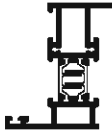
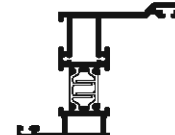
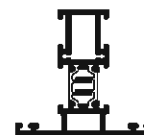
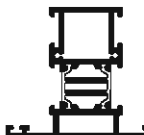
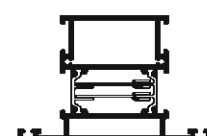
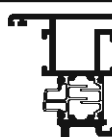
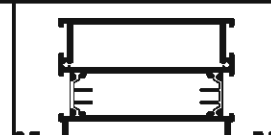
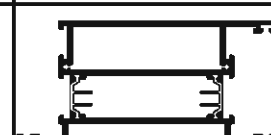
STANDART PROFİLLER / STANDARD PROFILES

- | | | | |
|----------------------|---------------------|---------------|------------------------------------|
| - Lamalar | - Flat Profiles | - Borular | - Round Tubes |
| - Kare Çubuklar | - Square Bars | - Köşebentler | - Angle Profiles with equal legs |
| - Yuvarlak Çubuklar | - Round Bars | - L Profiller | - Angle Profiles with unequal legs |
| - Dikdörtgen Kutular | - Rectangular Tubes | - U Profiller | - Channel Profiles |
| - Kare Kutular | - Square Tubes | - T Profiller | - "T" Profile |



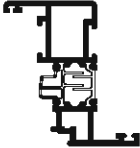
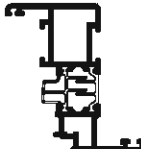
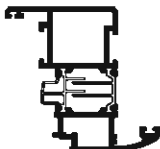
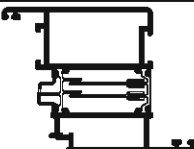
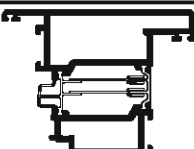



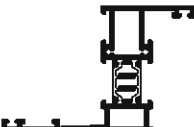
ÇEŞİTLİ PROFİL SERİLERİ / VARIOUS PROFILE SERIES

- | | | | |
|---------------------------|--------------------------|-----------------------------|----------------------------|
| - Küpeşteler | - Handrail Profiles | - Süpürgelik Profilleri | - Baseboard Profiles |
| - Cam Balkon Sistemi | - Glass Balcony System | - Sigma Profilleri | - Sigma Profiles |
| - Panjur Profilleri | - Shutter Profiles | - Denizlik Profilleri | - Fensterbank Profiles |
| - Kapı Söve Profilleri | - Doorjamb Profiles | - Damlalık Profilleri | - Water Cap Profiles |
| - Güneş Kırıcı Profilleri | - Sun Screen Profiles | - Kompozit Panel Profilleri | - Composite Panel Profiles |
| - Kablo Kanal Profilleri | - Cable Trays | - Dilatasyon Profilleri | - Dilatation Profiles |
| - Menfez Profilleri | - Ventilation Profiles | - Cephe Kaplama Profilleri | - Facade Cladding Profiles |
| - Bölme Profilleri | - Office Partition Walls | - Sineklik Profilleri | - Flyswatter Profiles |
| - Sigma Profilleri | - Sigma Profiles | - Bant Kol Profilleri | - Handle Profiles |
| - Vitrin Profilleri | - Shopwindow Profiles | - Reklam Profilleri | - Picture Frames |
| - Lambriler | - Paneling Profiles | - Mobilya Profilleri | - Furnishing Profiles |
| - Kapatma Çıtalari | - Wall Connection Beads | - Isıtma Profilleri | - Heating Profiles |
| - Pervaz Profilleri | - Rug-End Profiles | - Soğutma Profilleri | - Cooler Profiles |

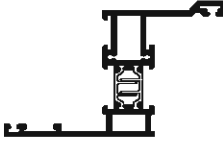
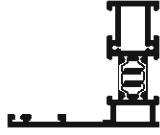
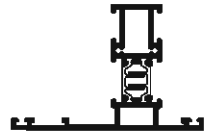
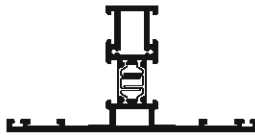
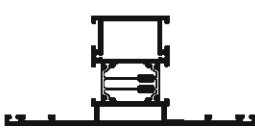
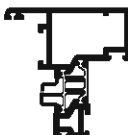


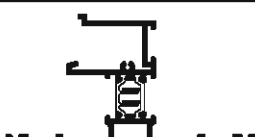
W65 Profil Endeksi

Açıklamalar	Profil Resmi	Profil Kodu	Ağırlık Kg/m	I _x	I _y	Sayfa No
Kasa (Genişlik 48mm) Frame (Width 48mm)		W65011-16	1.336 Kg/m	22.24	6.02	92
		W65011-20	1.470 Kg/m	25.40	6.38	92
Kasa (Genişlik 58mm) Frame (Width 58mm)		W65021-16	1.573 Kg/m	26.24	12.33	92
		W65021-20	1.748 Kg/m	30.31	13.15	92
Kasa (Genişlik 78mm) Frame (Width 78mm)		W65031-16	1.920 Kg/m	33.95	35.75	92
		W65031-20	2.182 Kg/m	39.84	38.59	92
Pervazlı Kasa (Genişlik 70mm) Frame (Width 70mm)		W65015-16	1.462 Kg/m	27.57	9.63	93
Pervazlı Kasa (Genişlik 85mm) Frame (Width 85mm)		W65017-16	1.594 Kg/m	33.89	17.83	93
Orta Kayıt (Genişlik 70mm) Transom - Mullion Profile (Width 70mm)		W65211-16	1.469 Kg/m	25.36	9.68	94
		W65211-20	1.616 Kg/m	28.84	10.18	94
Orta Kayıt (Genişlik 80mm) Transom - Mullion Profile (Width 80mm)		W65221-16	1.706 Kg/m	29.39	17.37	94
		W65221-20	1.894 Kg/m	33.78	18.47	94
Orta Kayıt (Genişlik 100mm) Transom - Mullion Profile (Width 100mm)		W65231-16	2.053 Kg/m	37.16	44.30	94
		W65231-20	2.328 Kg/m	43.38	47.71	94
Pivot Adaptörü Pivot Adapter		W6551-16	1.574 Kg/m	-	-	94
Orta Kayıt (Genişlik 135mm) Transom - Mullion Profile (Width 135mm)		W65241-20	3.017 Kg/m	59.60	140.27	95
Etek (Genişlik 135mm) Kickplate Profile (Width 135mm)		W65121-20	3.159 Kg/m	-	-	95

W65 Profil Endeksi


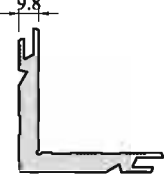

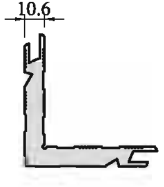

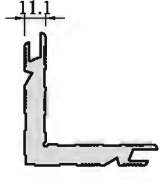

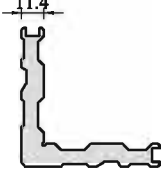

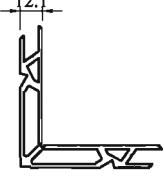

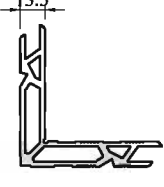
Açıklamalar	Profil Resmi	Profil Kodu	Ağırlık Kg/m	Ix	Iy	Sayfa No
Etek Fırça Profili <i>Kickplate Profile</i>		W465-20	0.439 Kg/m	-	-	95
Etek Fırça Profili <i>Kickplate Profile</i>		W468-16	0.295 Kg/m	-	-	95
Kanat Profili (Genişlik 70mm) <i>Sash Profile (Width 70mm)</i>		W65351-16	1.558 Kg/m	-	-	96
		W65351-20	1.758 Kg/m	-	-	96
Kanat Profili (Genişlik 80mm) <i>Sash Profile (Width 80mm)</i>		W65361-16	1.755 Kg/m	-	-	96
		W65361-20	1.998 Kg/m	-	-	96
Oval Kanat Profili (Genişlik 80mm) <i>Sash Profile (Width 80mm)</i>		W65363-16	1.797 Kg/m	-	-	96
Kanat Profili (Genişlik 100mm) <i>Sash Profile (Width 100mm)</i>		W65381-16	2.212 Kg/m	-	-	96
		W65381-20	2.542 Kg/m	-	-	96
Dışa Açılır Kapı Kanadı (Genişlik 100mm) <i>Door Sash Profile Opening Outside (Width 100mm)</i>		W65391-20	2.372 Kg/m	-	-	97
Çift Kanat Adaptörü <i>Adjoining Sash Adapter</i>		W6552-16	1.388 Kg/m	-	-	97
Dışa Açılır Kapı Adaptörü <i>Outside Opening Door Adapter</i>		W6553-16	1.324 Kg/m	20.78	7.95	97
Damlalık Profili <i>Windowsill Profile</i>		5711-20	0.404 Kg/m	-	-	97
Gizli Kanat Pervazlı Kasa <i>Frame Profile For Hidden Sash</i>		W65016-16	1.640 Kg/m	32.70	25.49	98


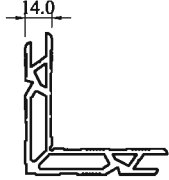

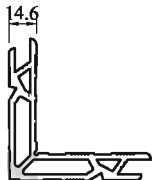

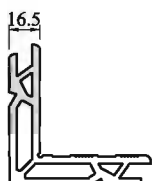

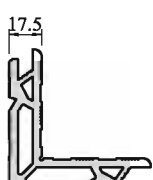

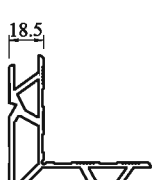

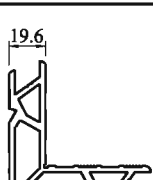

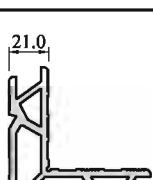
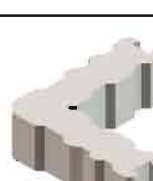
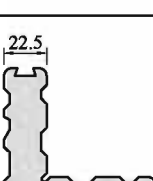
W65 Profil Endeksi


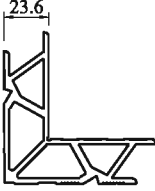

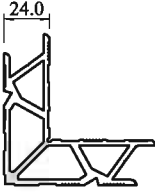

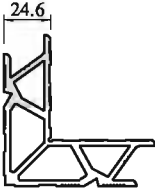

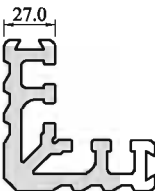






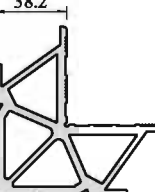
Açıklamalar	Profil Resmi	Profil Kodu	Ağırlık Kg/m	Ix	Iy	Sayfa No
Gizli Kanat Pervazlı Kasa <i>Frame Profile For Hidden Sash</i>		W65018-16	1.772 Kg/m	40.07	35.68	98
Gizli Kanat Kasası <i>Frame Profile For Hidden Sash</i>		W65012-16	1.514 Kg/m	26.45	20.53	99
Gizli Kanat Orta Kayıt <i>Transom - Mullion Profile For Hidden Sash</i>		W65212-16	1.647 Kg/m	28.98	25.57	99
Gizli Kanat Orta Kayıt <i>Transom - Mullion Profile For Hidden Sash</i>		W65213-16	1.825 Kg/m	31.96	44.66	100
Gizli Kanat Orta Kayıt <i>Transom - Mullion Profile For Hidden Sash</i>		W65223-16	2.235 Kg/m	40.25	77.65	100
Gizli Kanat Profili <i>Hidden Sash Profile</i>		W65326-16	1.475 Kg/m	-	-	101
Gizli Kanat İçin Cam Çıtası <i>Glass Holder For Hidden Sash</i>		W416-15	0.142 Kg/m	-	-	101
Gizli Kanatta Sabit Cam Adaptörü <i>Fix Glass Adapter For Hidden Sash</i>		W546-16	0.614 Kg/m	-	-	101
Gizli Kanatta Çift Kanat Adaptörü <i>Adjoining Sash Adapter For Hidden Sash</i>		W65526-16	1.915 Kg/m	-	-	101


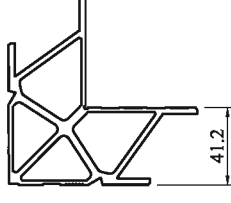

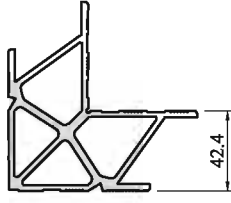

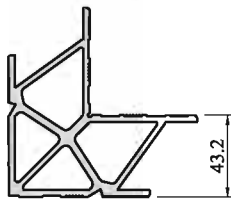

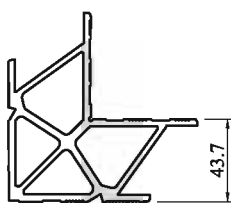

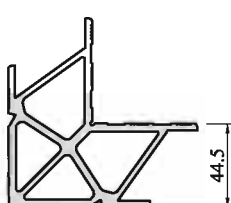

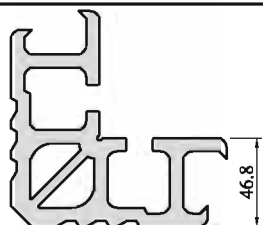

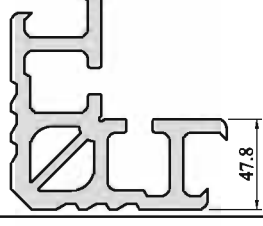

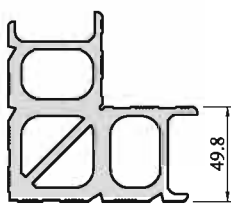
Köşe Takozları
Pres Corners

W65 sisteminin profilleri ile W75 sisteminin profilleri arasındaki tek fark ısı bariyerleridir. Dolayısı ile W75XYZ-AB ile W65XYZ-AB için aynı köşe takozu seçilmelidir. Örneğin T851-121 takozunun aşağıda W75011-20-ÜST ile çalıştığı yazılmıştır. Bu takoz aynı zamanda W65011-20-ÜST ile de çalışmaktadır.

3D Resmi	2D Resmi	Özellikleri	Kullanıldığı Profiller
		T851-098 9.8 mm 2.759 Kg/m	32312-16 / 2
		T851-106 10.6 mm 2.953 Kg/m	3213-20
		T851-111 11.1 mm 3.074 Kg/m	3209-16 3210-16 3211-16
		T851-114 11.4 mm 3.111 Kg/m	32311-16 32312-16 / 1
		T851-121 12.1 mm 1.846 Kg/m	W75011-20-ÜST W75211-20-ÜST 32142-16 32143-16 / 1
		T851-135 13.5 mm 2.256 Kg/m	W75011-16-ÜST W65012-16-ÜST W75015-16-ÜST W65212-16-ÜST W75017-16-ÜST W65018-16-ÜST W75211-16-ÜST W65016-16-ÜST W65213-16-ÜST

3D Resmi	2D Resmi	Özellikleri	Kullanıldığı Profiller
		T851-140 14.0 mm 2.432 Kg/m	W75351-20-ALT
		T851-146 14.6 mm 2.633 Kg/m	W75351-16-ALT
		T851-165 16.5 mm 3.261 Kg/m	W75351-20-ÜST
		T851-175 17.5 mm 3.576 Kg/m	W75011-20-ALT W75211-20-ALT W75351-16-ÜST W65326-16-ÜST
		T851-185 18.5 mm 2.512 Kg/m	W75011-16-ALT W65012-16-ALT W75015-16-ALT W65212-16-ALT W75017-16-ALT W65016-16-ALT W75211-16-ALT W65018-16-ALT W65213-16-ALT
		T851-196 19.6 mm 2.859 Kg/m	W7553-16-ÜST
		T851-210 21.0 mm 3.308 Kg/m	W7551-16
		T85-225 22.5 mm 7.242 Kg/m	W75021-20-ÜST W75221-20-ÜST W7553-16-ALT 32143-16/2

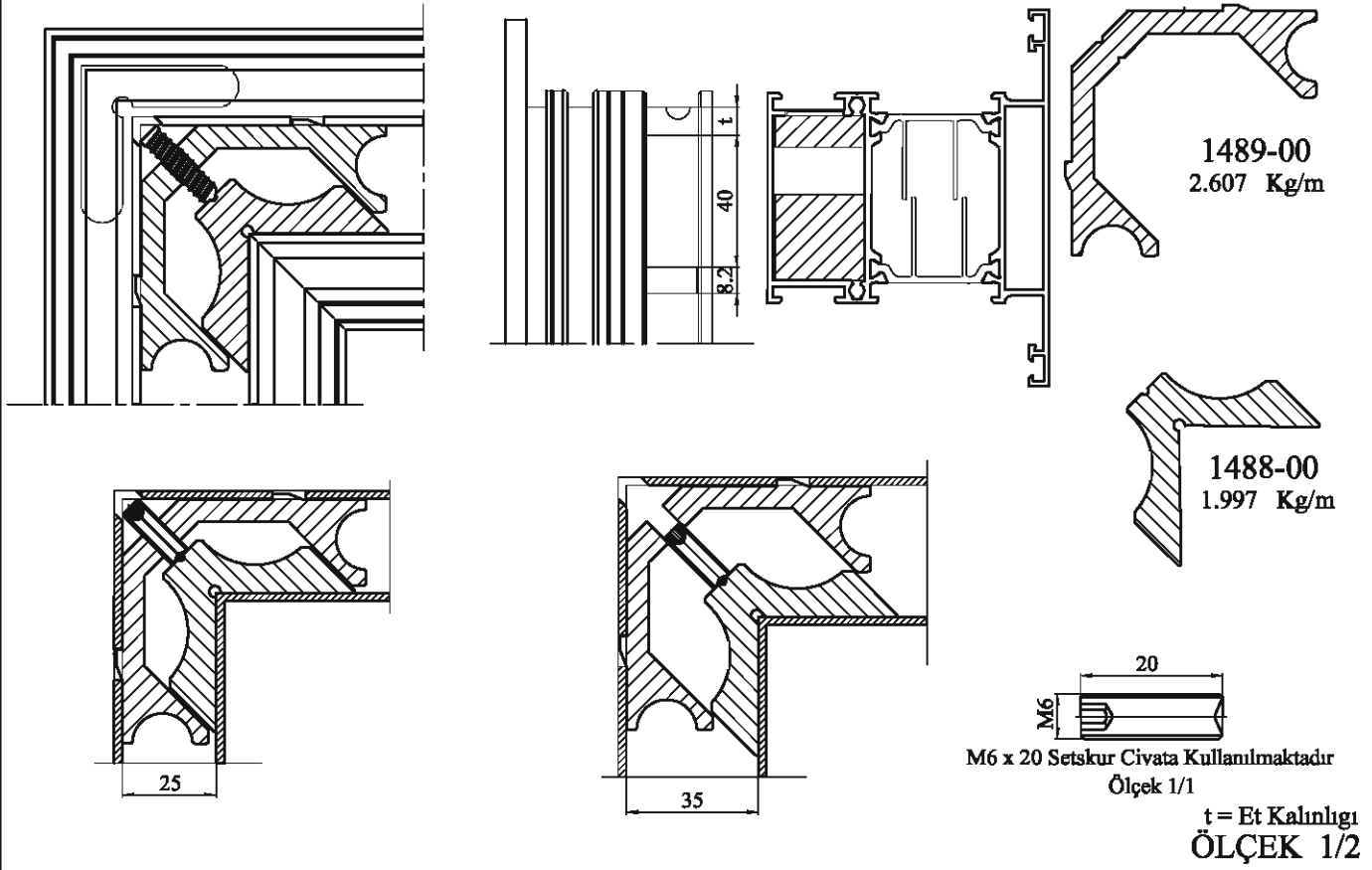
3D Resmi	2D Resmi	Özellikleri	Kullanıldığı Profiller
		T851-236 23.6 mm 2.897 Kg/m	W75021-16-ÜST W75221-16-ÜST
		T851-240 24.0 mm 2.948 Kg/m	W75361-20-ALT W65223-16-ALT 32111-16 32112-16 32121-16 32131-16 32132-16
		T851-246 24.6 mm 3.140 Kg/m	W75361-16-ALT W75363-16-ALT
		T851-270 27.0 mm 5.513 Kg/m	W75021-20-ALT 32012-16 W75221-20-ALT 32013-16 W75361-20-ÜST 32014-16 32011-16 32021-16 32022-16
		T851-280 28.0 mm 3.025 Kg/m	W75361-16-ÜST W75363-16-ÜST
		T851-286 28.6 mm 3.217 Kg/m	W75021-16-ALT W75221-16-ALT
		T851-334 33.4 mm 3.423 Kg/m	W65223-16-ÜST
		T851-382 38.2 mm 4.758 Kg/m	W65223-16-ALT

3D Resmi	2D Resmi	Özellikleri	Kullanıldığı Profiller
		T851-412 41.2 mm 3.863 Kg/m	W75391-20-ALT
		T851-424 42.4 mm 4.158 Kg/m	W75031-20-ÜST W75231-20-ÜST
		T851-432 43.2 mm 4.354 Kg/m	W75031-16-ÜST W75231-16-ÜST
		T851-437 43.7 mm 4.480 Kg/m	W75381-20-ALT
		T851-445 44.5 mm 4.677 Kg/m	W75381-16-ALT
		T85-468 46.8 mm 9.748 Kg/m	W75381-20-ÜST
		T85-478 47.8 mm 9.807 Kg/m	W75031-16-ALT W75031-20-ALT W75231-16-ALT W75231-20-ÜST W75381-16-ÜST
		T85-498 49.8 mm 8.230 Kg/m	W75391-20-ÜST

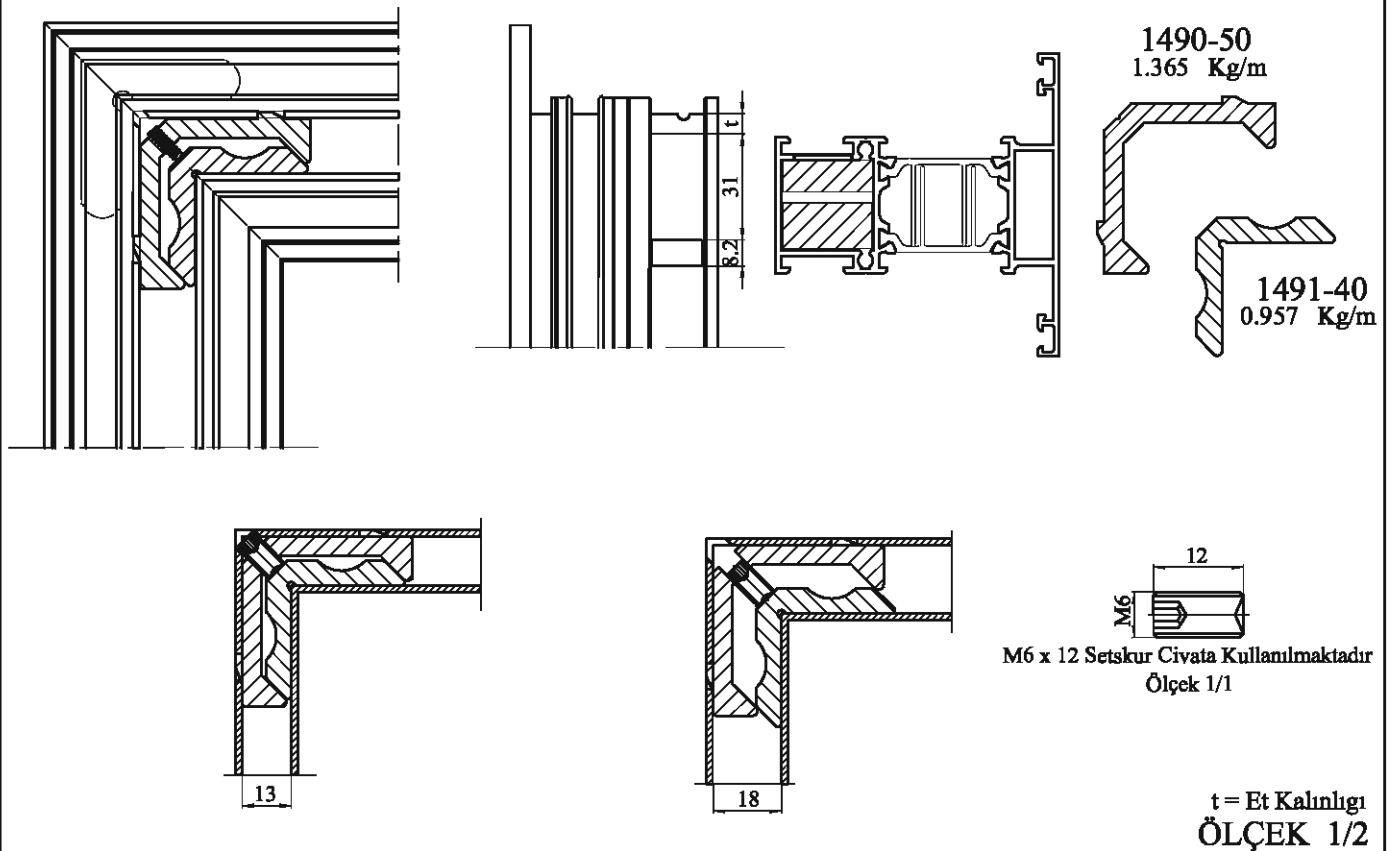
PROFİLLER ve KULLANILAN TAKOZLAR LİSTESİ

Profil No	A/ Ü	Takoz Numarası / Kesim Ölçüsü (mm)	Profil No	A/ Ü	Takoz Numarası / Kesim Ölçüsü (mm)	Profil No	A/ Ü	Takoz Numarası / Kesim Ölçüsü (mm)
3211-16	-	T851-111 / 22.1	W65021-16	A	T851-286 / 9.7	W75011-16	A	T851-185 / 9.7
3213-20	-	T851-106 / 26.5	W65021-16	Ü	T851-236 / 23.9	W75011-16	Ü	T851-135 / 23.9
3209-16 (1)	-	T851-111 / 42.2	W65021-20	A	T85-270 / 8.9	W75011-20	A	T851-175 / 8.9
3209-16 (2)	-	T851-111 / 22.1	W65021-20	Ü	T85-225 / 23.5	W75011-20	Ü	T851-121 / 23.5
3210-16 (1)	-	T851-111 / 22.1	W65031-16	A	T85-478 / 9.7	W75015-16	A	T851-185 / 9.7
3210-16 (2)	-	T851-111 / 42.2	W65031-16	Ü	T851-432 / 23.9	W75015-16	Ü	T851-135 / 23.9
32011-16	-	T851-270 / 20.5	W65031-20	A	T85-478 / 8.9	W75017-16	A	T851-185 / 9.7
32012-16	-	T851-270 / 20.5	W65031-20	Ü	T851-424 / 23.5	W75017-16	Ü	T851-135 / 23.9
32013-16	-	T851-270 / 20.5	W65211-16	A	T851-185 / 9.7	W75021-16	A	T851-286 / 9.7
32014-16	-	T851-270 / 20.5	W65211-16	Ü	T851-135 / 23.9	W75021-16	Ü	T851-236 / 23.9
32021-16 (1)	-	T851-270 / 20.5	W65211-20	A	T851-175 / 8.9	W75021-20	A	T85-270 / 8.9
32021-16 (2)	-	T851-270 / 18.5	W65211-20	Ü	T851-121 / 23.5	W75021-20	Ü	T85-225 / 23.5
32022-16 (1)	-	T851-270 / 20.5	W65212-16	A	T851-185 / 9.7	W75031-16	A	T85-478 / 9.7
32022-16 (2)	-	T851-270 / 18.5	W65212-16	Ü	T851-135 / 23.9	W75031-16	Ü	T851-432 / 23.9
32111-16	-	T851-236 / 27.3	W65221-16	A	T851-286 / 9.7	W75031-20	A	T85-478 / 8.9
32112-16	-	T851-236 / 27.3	W65221-16	Ü	T851-236 / 23.9	W75031-20	Ü	T851-424 / 23.5
32121-16	-	T851-236 / 27.3	W65221-20	A	T85-270 / 8.9	W75211-16	A	T851-185 / 9.7
32131-16 (1)	-	T851-236 / 27.3	W65221-20	Ü	T85-225 / 23.5	W75211-16	Ü	T851-135 / 23.9
32131-16 (2)	-	T851-236 / 25.3	W65231-16	A	T85-478 / 9.7	W75211-20	A	T851-175 / 8.9
32132-16 (1)	-	T851-236 / 27.3	W65231-16	Ü	T851-432 / 23.9	W75211-20	Ü	T851-121 / 23.5
32132-16 (2)	-	T851-236 / 25.3	W65231-20	A	T85-478 / 8.9	W75221-16	A	T851-286 / 9.7
32142-16	-	T851-121 / 23.2	W65231-20	Ü	T851-424 / 23.5	W75221-16	Ü	T851-236 / 23.9
32143-16 (1)	-	T851-121 / 23.2	W65213-16	A	T851-185 / 9.7	W75221-20	A	T85-270 / 8.9
32143-16 (2)	-	T851-225 / 23.2	W65213-16	Ü	T851-135 / 23.9	W75221-20	Ü	T85-225 / 23.5
32311-16	-	T851-114 / 18.2	W65223-16	A	T851-382 / 9.7	W75231-16	A	T85-478 / 9.7
32312-16 (1)	-	T851-114 / 18.2	W65223-16	Ü	T851-334 / 23.9	W75231-16	Ü	T851-432 / 23.9
32312-16 (2)	-	T851-098 / 18.2	W65351-16	A	T851-146 / 8.5	W75231-20	A	T85-478 / 8.9
32531-12	-	T851-236 / 45.9	W65351-16	Ü	T851-175 / 27.7	W75231-20	Ü	T851-424 / 23.5
W6553-16	A	T85-225 / 9.7	W65351-20	A	T851-140 / 8.1	W75351-16	A	T851-146 / 8.5
W6553-16	Ü	T851-196 / 17.9	W65351-20	Ü	T851-165 / 26.9	W75351-16	Ü	T851-175 / 27.7
W65011-16	A	T851-185 / 9.7	W65361-16	A	T851-246 / 8.5	W75351-20	A	T851-140 / 8.1
W65011-16	Ü	T851-135 / 23.9	W65361-16	Ü	T851-280 / 27.7	W75351-20	Ü	T851-165 / 26.9
W65011-20	A	T851-175 / 8.9	W65361-20	A	T851-240 / 8.1	W75361-16	A	T851-246 / 8.5
W65011-20	Ü	T851-121 / 23.5	W65361-20	Ü	T85-270 / 26.9	W75361-16	Ü	T851-280 / 27.7
W65015-16	A	T851-185 / 9.7	W65363-16	A	T851-246 / 8.5	W75361-20	A	T851-240 / 8.1
W65015-16	Ü	T851-135 / 23.9	W65363-16	Ü	T851-280 / 27.7	W75361-20	Ü	T85-270 / 26.9
W65016-16	A	T851-185 / 9.7	W65381-16	A	T851-445 / 8.5	W75363-16	A	T851-246 / 8.5
W65016-16	Ü	T851-135 / 23.9	W65381-16	Ü	T85-478 / 27.7	W75363-16	Ü	T851-280 / 27.7
W65012-16	A	T851-185 / 9.7	W65381-20	A	T851-437 / 8.1	W75381-16	A	T851-445 / 8.5
W65012-16	Ü	T851-135 / 23.9	W65381-20	Ü	T85-468 / 26.9	W75381-16	Ü	T85-478 / 27.7
W65016-16	A	T851-185 / 9.7	W65391-20	A	T851-412 / 8.1	W75381-20	A	T851-437 / 8.1
W65016-16	Ü	T851-135 / 23.9	W65391-20	Ü	T85-498 / 23.9	W75381-20	Ü	T85-468 / 26.9
W65018-16	A	T851-185 / 9.7	W7553-16	A	T85-225 / 9.7	W75391-20	A	T851-412 / 8.1
W65018-16	Ü	T851-135 / 23.9	W7553-16	Ü	T851-196 / 17.9	W75391-20	Ü	T85-498 / 23.9

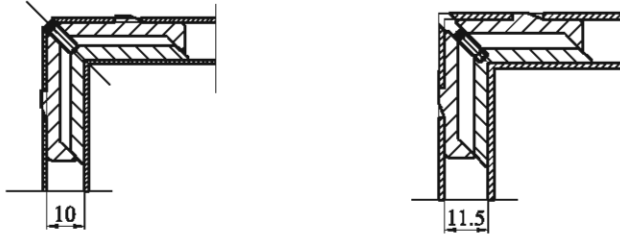
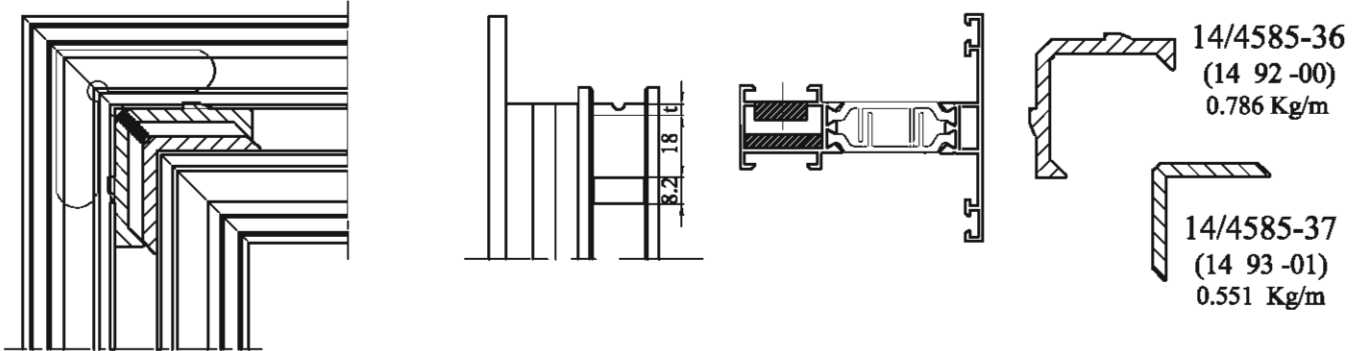
T90 -1 KÖŞE TAKOZU UYGULAMASI (25-35mm Arası)



T90-2 KÖŞE TAKOZU UYGULAMASI (13-18mm Arası)



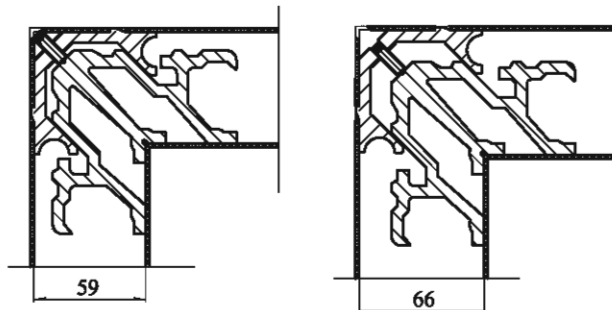
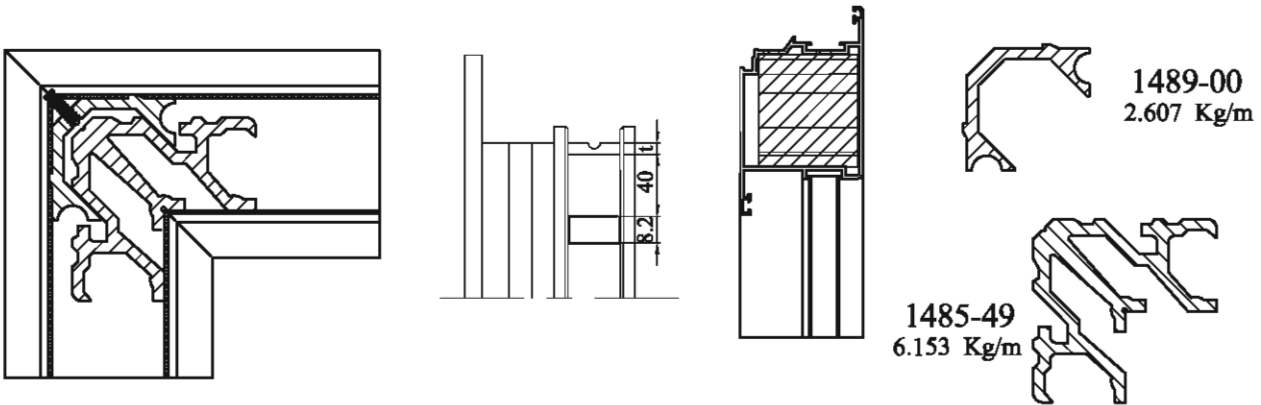
T90 -3 KÖŞE TAKOZU UYGULAMASI (10-11.5mm Arası)



M3 x 10 Setskur Civata Kullanılmaktadır
Ölçek 1/1

t = Et Kalınlığı
ÖLÇEK 1/2

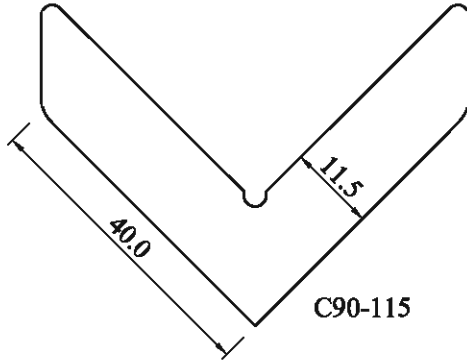
T90-4 KÖŞE TAKOZU UYGULAMASI (59-66mm Arası) (1238-20 ve 1239-20 profilleri ile kullanılır)



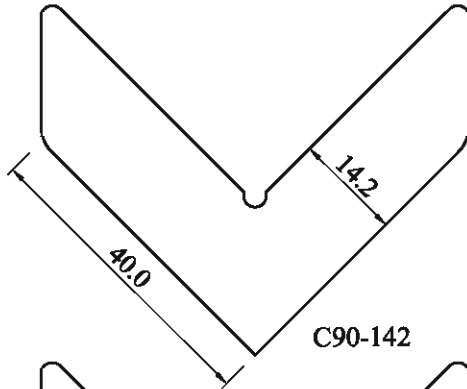
M6 x 20 Setskur Civata Kullanılmaktadır
Ölçek 1/1

t = Et Kalınlığı
ÖLÇEK 1/4

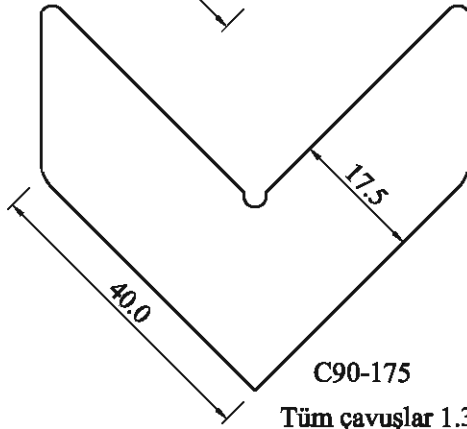
Çavuş Gönyeler Set-Square



C90-115



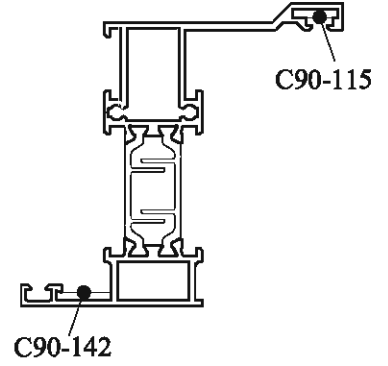
C90-142



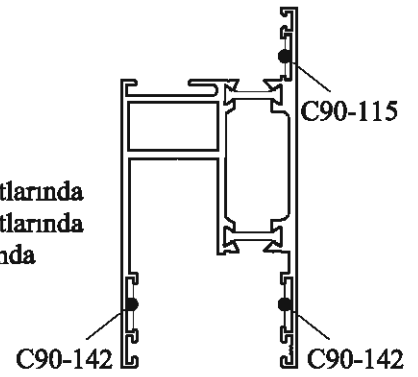
C90-175

Tüm çavuşlar 1.3mm, 1.5mm ve 1.8mm olmak üzere 3 farklı kalınlıkta üretilmektedir.

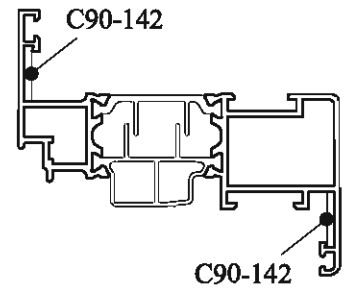
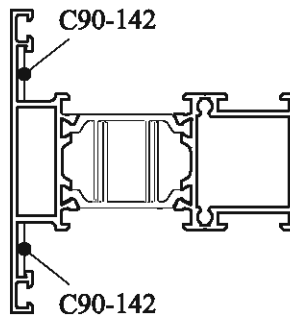
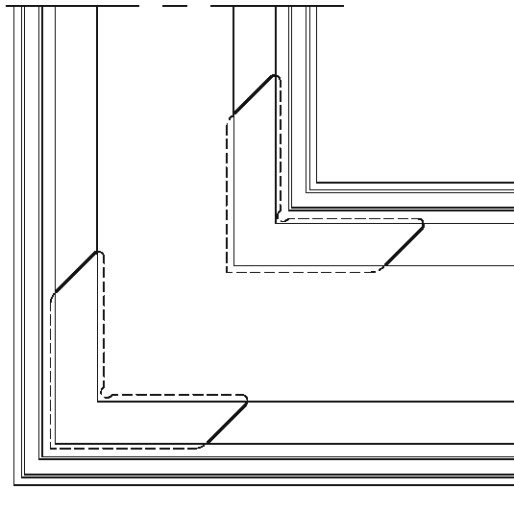
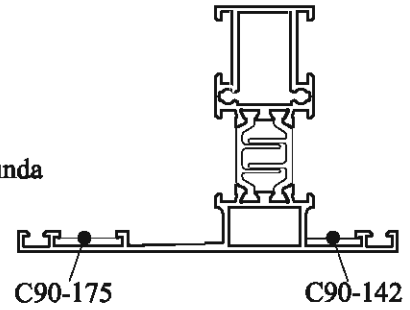
32142-16 (İç)
32143-16 (İç)
32311-16
32312-16
W75017-16 (Dış)

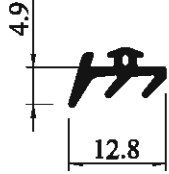
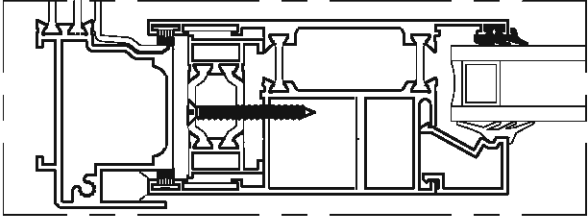
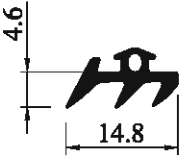
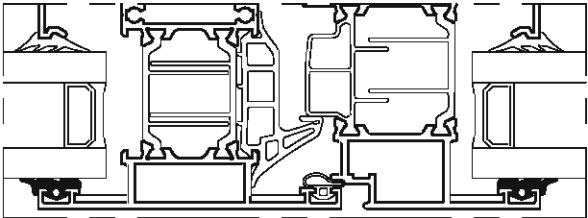
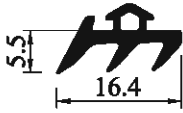
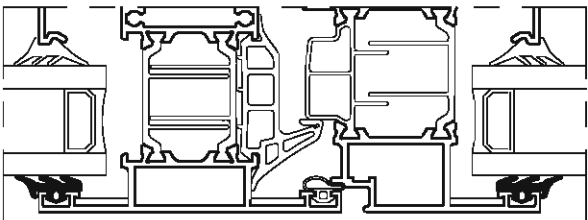

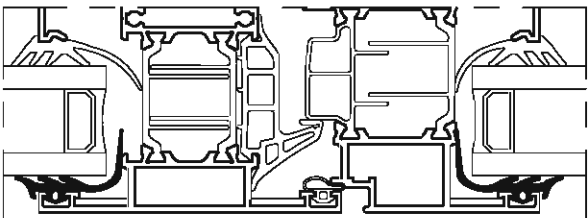
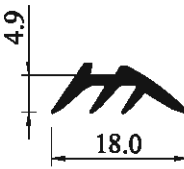
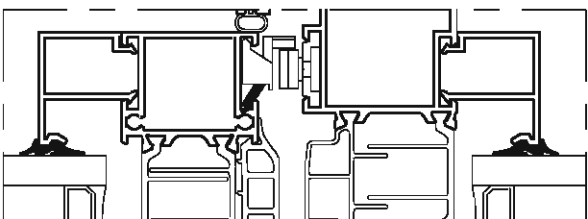
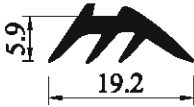
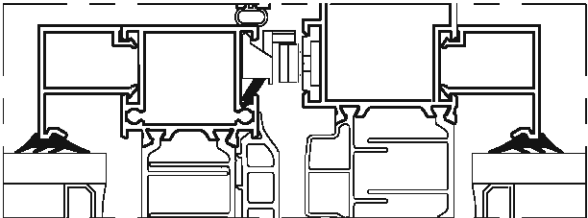
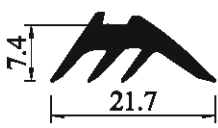
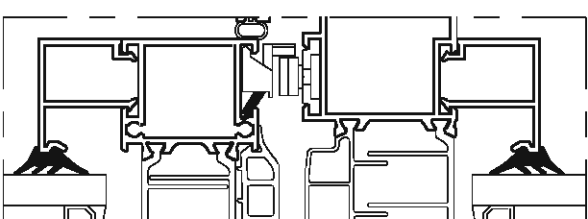



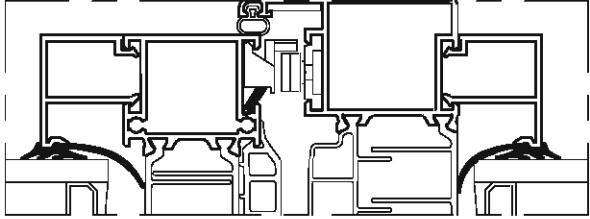

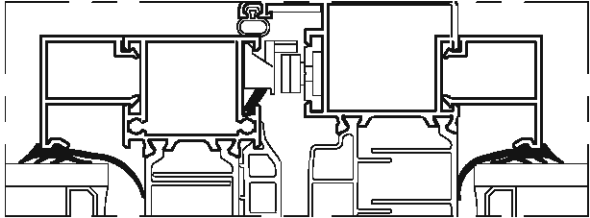

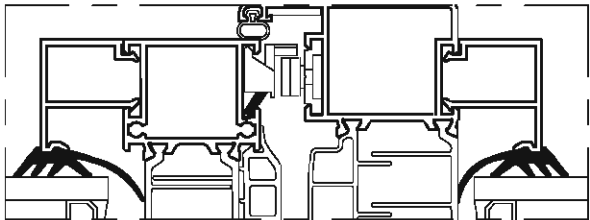

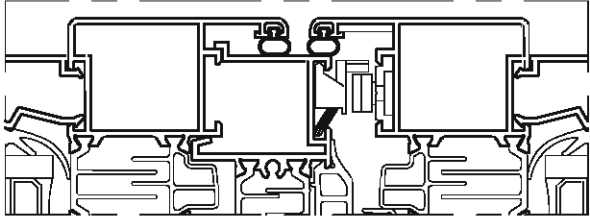

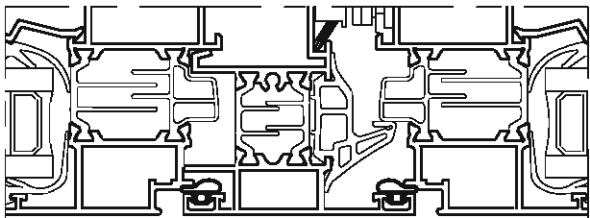

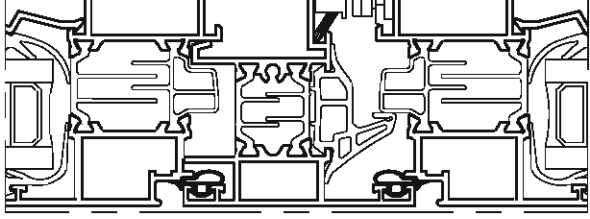

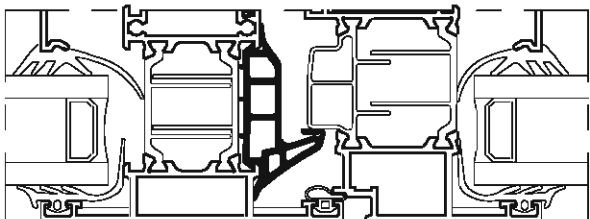
32142-16 (Dış)
32143-16 (Dış)
W75 Sistem: Kasa, kanat ve orta kayıtlarında
W65 Sistem: Kasa, kanat ve orta kayıtlarında
W65 Sistem: Gizli kanat kasalarında


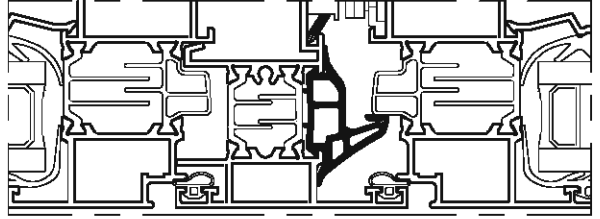

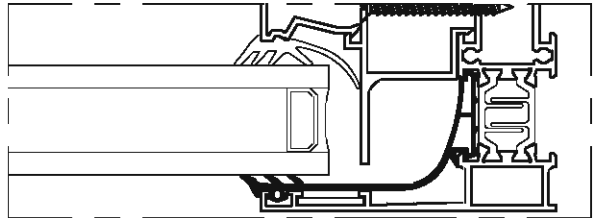

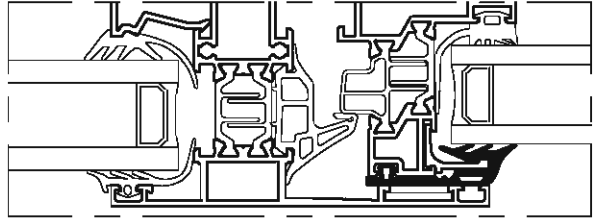

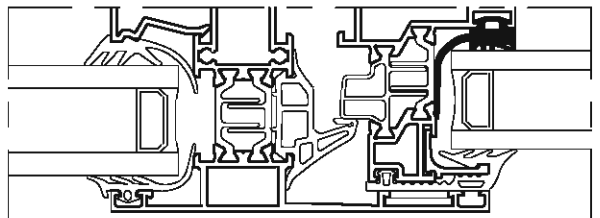

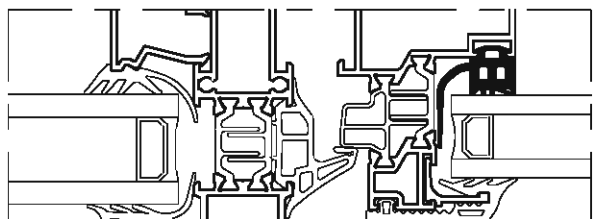
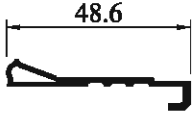
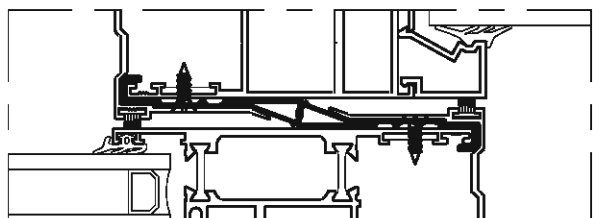
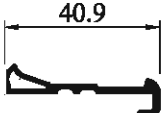
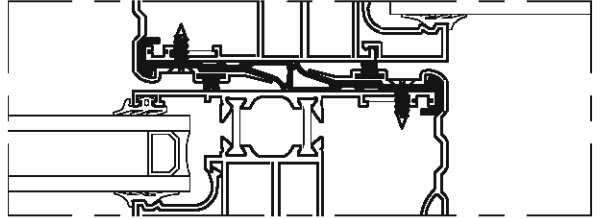



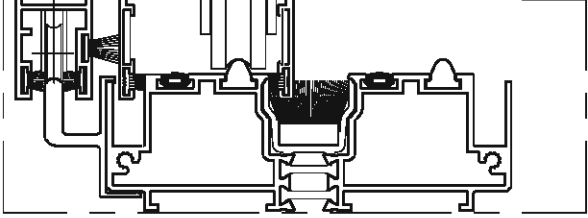

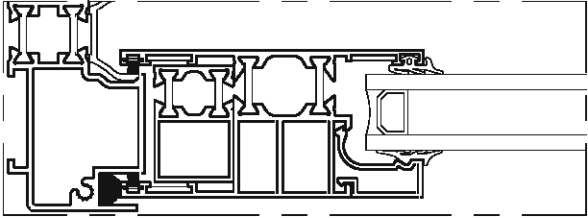

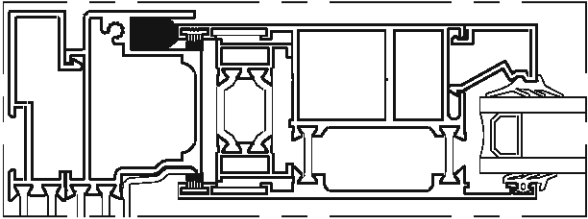

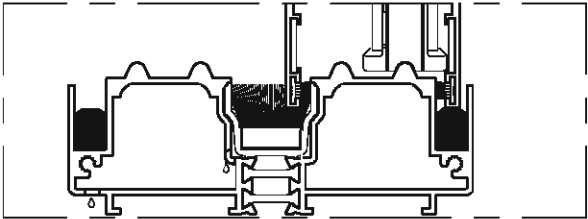

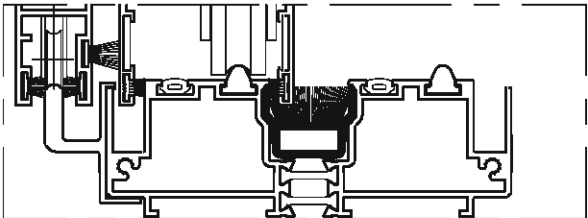

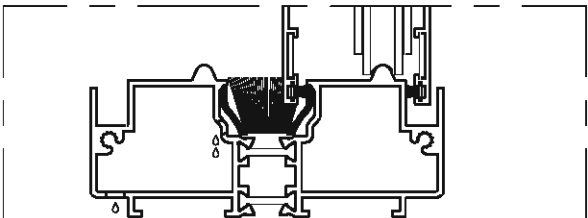

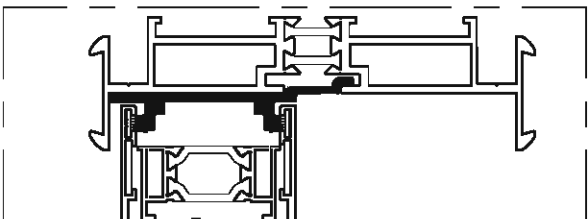
W65 Sistem: Gizli kanat kasalarında

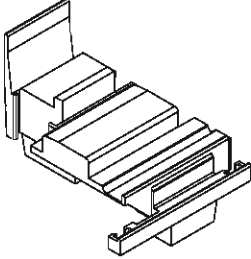
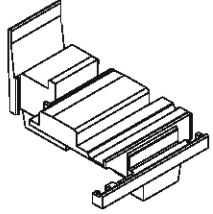
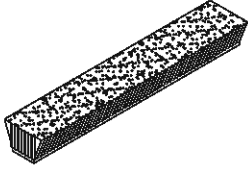
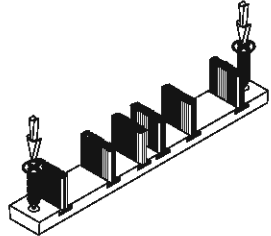
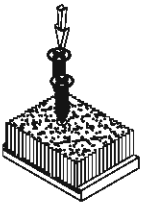
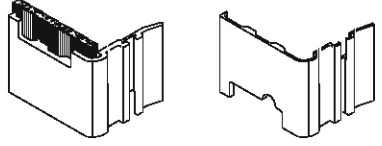
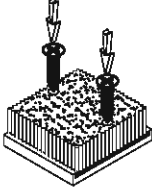
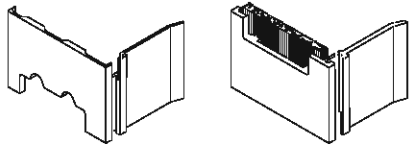
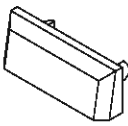


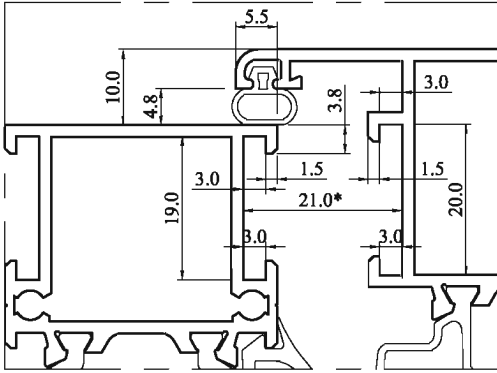
Aksesuar Kodu	Aksesuar Resmi	Kullanılan Alan	Montaj Çizimi
SF-06 1Koli 15kg / 333m = 45gr/m		Sürme Seri Dış Cam Fiteli (2.5mm - 3.5 mm)	
F-06 1Koli 15kg / 272m = 55.0gr/m		Dış Cam Fiteli (2.5mm - 3.5mm)	
F-06A 1Koli 15kg / 223m = 67gr/m		Dış Cam Fiteli (3.5mm - 5.0mm)	
FE-06A 1Koli 15kg / 147m = 102gr/m		Isı Yalıtımlı Dış Cam Fiteli (3.5mm - 5.0mm)	
F-07A 1Koli 15kg / 294m = 51gr/m		İç Cam Fiteli (2.5mm - 4.0mm)	
F-07 1Koli 15kg / 227m = 66gr/m		İç Cam Fiteli (3.5mm - 5.0mm)	
F-08 1Koli 15kg / 167m = 90.0gr/m		İç Cam Fiteli (5.0mm - 6.5mm)	

Aksesuar Kodu	Aksesuar Resmi	Kullanılan Alan	Montaj Çizimi
FE-07A 1Koli 15kg / 153m = 98gr/m		Isı Yalıtımlı İç Cam Fiteli (2.5mm - 4.0mm)	
FE-07 1Koli 15kg / 131m = 114gr/m		Isı Yalıtımlı İç Cam Fiteli (3.5mm - 5.0mm)	
FE-08 1Koli 15kg / 108m = 138gr/m		Isı Yalıtımlı İç Cam Fiteli (5.0mm - 6.5mm)	
F-11 1Koli 12kg / 500m = 24gr/m		Kanat Fiteli	
F-41 1Koli 12kg / 333m = 36.0gr/m		Kasa Fiteli	
F-42 1Koli 12kg / 279m = 43.0gr/m		Kasa Fiteli	
FE-75 1Koli 15kg / 50m = 298gr/m	 Ölçek 1/2	W75 Toz Fiteli	

Aksesuar Kodu	Aksesuar Resmi	Kullanılan Alan	Montaj Çizimi
FE-65 1Koli 15kg / 61m = 242gr/m	 Ölçek 1/2	W65 Toz Fitili	
FE-65G 1Koli 15kg / 63m = 235gr/m	 Ölçek 1/2	W65 Gizli Kanat Sabit Cam Toz Fitili	
FE-1G 1Koli 15kg / 64m = 233gr/m.	 Ölçek 1/2	Gizli Kanat Dış Cam Fitili	
FE-33 1Koli 15kg / 98m = 152gr/m	 Ölçek 1/2	Gizli Kanat Kanat Cam fitili	
FE-35 1Koli 15kg / 77m = 194gr/m	 Ölçek 1/2	Gizli Kanat Kanat Cam Fitili	
SF-232 1Koli 15kg / 112m = 133gr/m	 Ölçek 1/2	Geniş Sürme Kenet İzolasyon Fitili	
SF-233 1Koli 15kg / 116m = 129gr/m	 Ölçek 1/2	Dar Sürme Kenet İzolasyon Fitili	

Aksesuar Kodu	Aksesuar Resmi	Kullanılan Alan	Montaj Çizimi
SF-112 1Koli 15kg / 517m = 29gr/m		Kanal Kapatma Fitolu (Geniş sürmede kullanılır.)	
SF-311 1Koli 15kg / 300m = 50gr/m		Dar Sürme E.P.D.M. Tampon (5cm) (Yan kasada kullanılır.)	
SF-312 1Koli 15kg / 122m = 123gr/m		Geniş Sürme E.P.D.M. Tampon (5cm) (Yan kasada kullanılır.)	
SF-313 1Koli 15kg / 138m = 109gr/m		Geniş Sürme (HEBE - SCHIEBE) E.P.D.M. Tespit Tamponu (Kanal boyunca kullanılır.)	
SF-211 1 Adet = 6m		Kanal Plastiği (Geniş sürme alt, yan ve üst kasada kullanılır.) (Dar sürme üst ve yan kasada kullanılır.)	
SF-213 1 Adet = 6m		Kanal Plastiği (Geniş sürme alt ve yan kasada kullanılır.) (Dar sürme üst ve yan kasada kullanılır.)	
SF-221 1 Adet = 6m		Kanat Kapatma Plastiği (Geniş Sürme Alternatif Yan Kasa)	

Aksesuar Kodu	Aksesuar Resmi	Aksesuar Kodu	Aksesuar Resmi
<u>FP-75</u>	 <p>W75 Çift Kanat Pencere Adaptör Plastiği</p>	<u>FP-65</u>	 <p>W65 Çift Kanat Pencere Adaptör Plastiği</p>
<u>SPF-011</u>	 <p>Dar Sürme Kanat Alın Kapatma Kıl Fiteli (Alt kasada kullanılır.)</p>	<u>SPF-012</u>	 <p>Dar ve Geniş Sürme Kanat Alın Kapatma Kıl Fitel Plastiği (Dar sürmede üst kasada kullanılır. Geniş sürmede ise hem alt hemde üst kasada kullanılır.)</p>
<u>SPF-532</u>	 <p>Dar Sürme Kanat Birleşim Kıl Fitel Plastiği (32532-12 ile kullanılır.)</p>	<u>SPF-511</u>	 <p>Dar Sürme Kanat Alın Kapatma (Kenet) Kıl Fitel Plastiği (32511-12 ile kullanılır.)</p>
<u>SPF-15</u>	 <p>Geniş Sürme Kanat Birleşim Kıl Fitel Plastiği (3215-12 ile kullanılır.)</p>	<u>SPF-17</u>	 <p>Geniş Sürme Kanat Alın Kapatma (Kenet) Kıl Fitel Plastiği (3217-12 ile kullanılır.)</p>
<u>FP-01</u>	 <p>Yağmur Tahliye Tapası</p>		

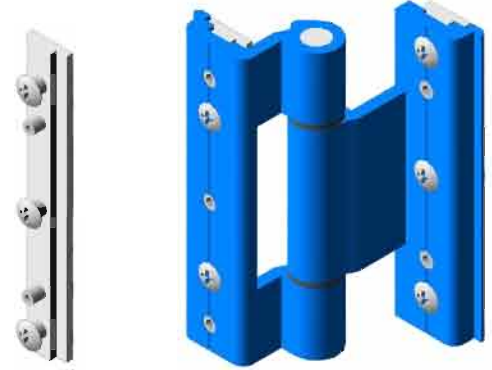
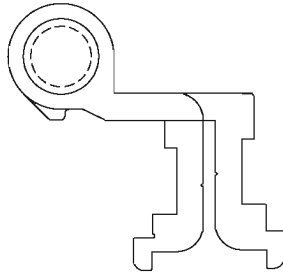


AKSESUARLAR

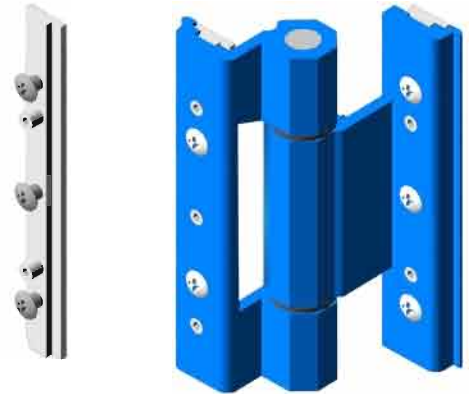
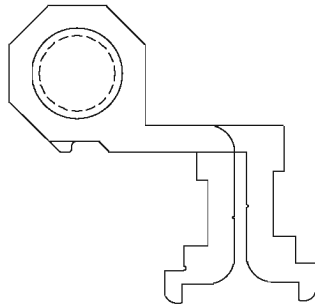
KASA KANAT İLİŞKİSİNDE EURO GROOVE STANDARTLARI DİKKATE ALINMIŞTIR

TS EN 1935 (bkz. sayfa 194) gereğince 25000 çevrimde 60 kg yük altında (tek menteşe) test edilmiş, statik, dayanıklılık, korozyon ve kesme mukavemet deneylerinde başarılı olup 14301309 kodu ile sertifikalandırılmıştır.

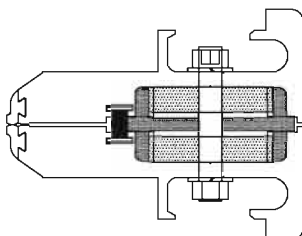
Euro Comfort
Pencere Menteşesi



Euro Comfort
Kapı Menteşesi

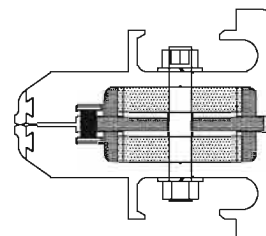


W75 Pivot Menteşe
Detay için bkz. Sayfa 65

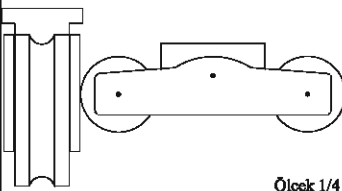
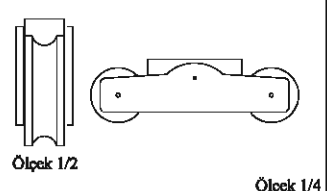
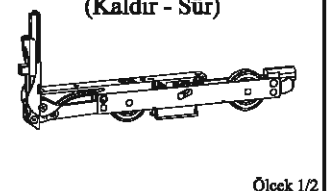
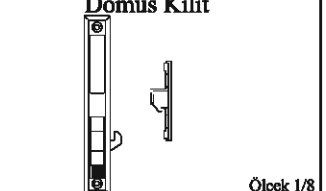
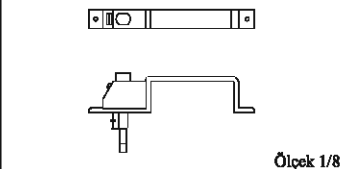
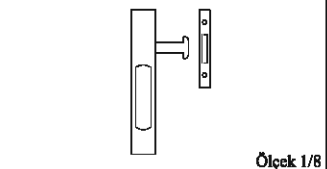
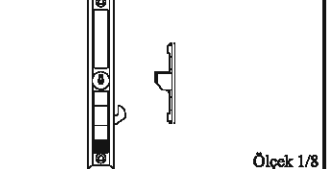
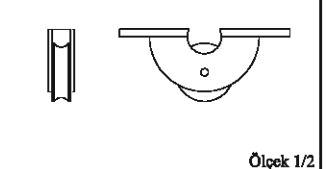
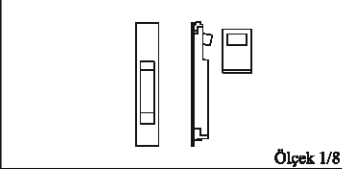
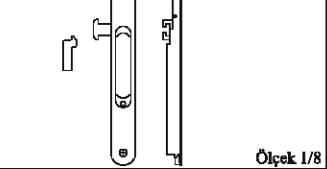
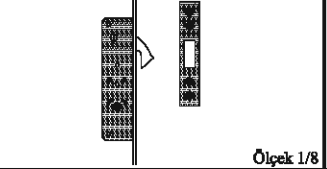

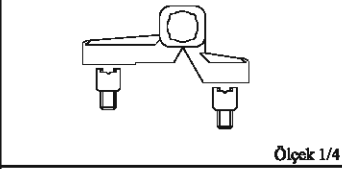
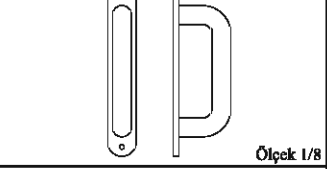
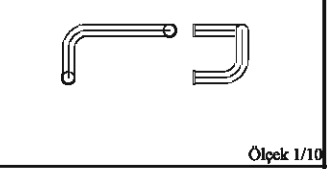
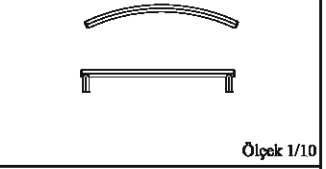
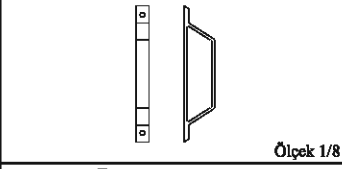
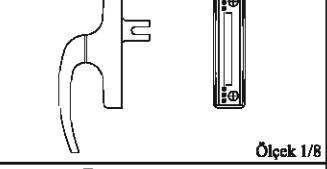
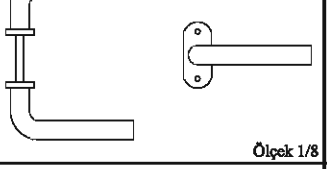
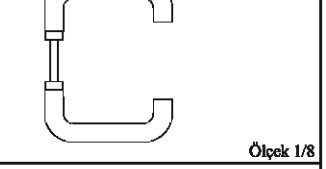
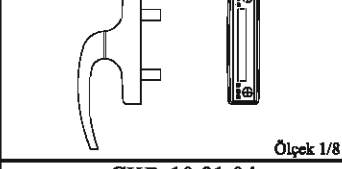
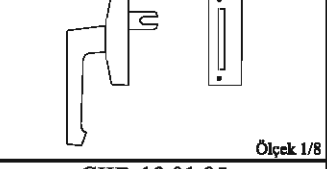
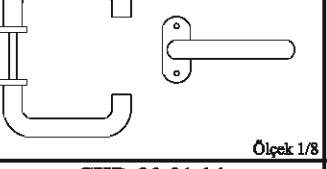
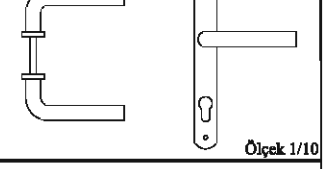
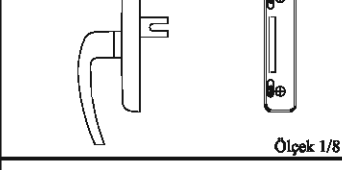
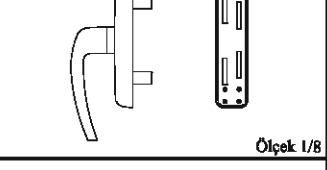
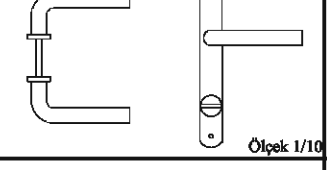
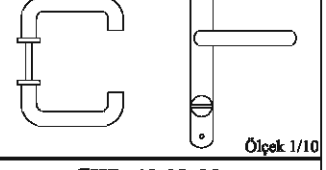
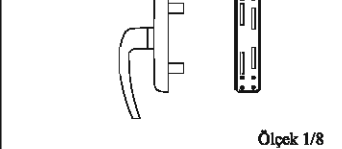
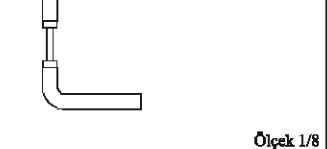
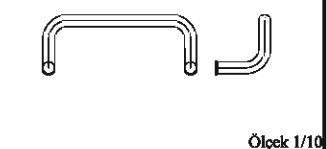
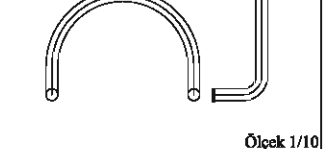


Ölçek 1/2

W65 Pivot Menteşe
Detay için bkz. Sayfa 106

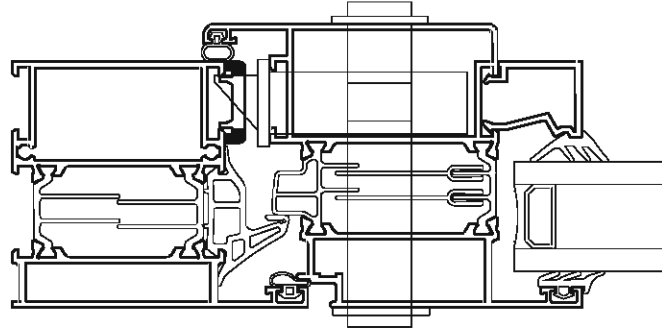
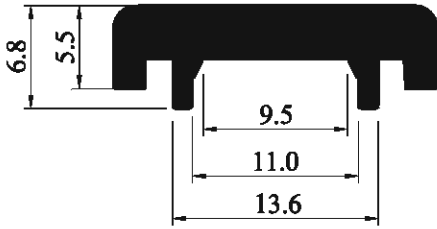


Ölçek 1/2

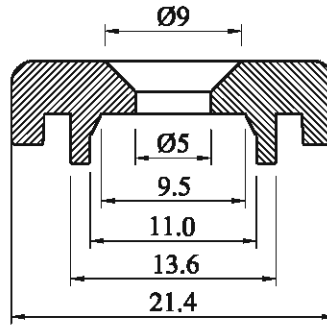
S32 Geniş Sürme Makara  Ölçek 1/4	S32 Dar Sürme Makara  Ölçek 1/2	Hebe -Schiebe Mekanizma (Kaldır - Sür)  Ölçek 1/2	KL-301B / 301S / 301K / 301G Domus Kilit  Ölçek 1/8
CKR-30.01.05 Tetik Kol  Ölçek 1/8	CKR-30.01.03 Havuzlu Kilit  Ölçek 1/8	KL-302B / 302S / 302K / 302G Domus Kilit  Ölçek 1/8	DLR-1557 Sineklik Makara  Ölçek 1/2
CKR-30.01.04 Havuzlu Kilit  Ölçek 1/8	CKR-30.01.07 Havuzlu Kilit  Ölçek 1/8	KL-201F Silindirli Gömme Kilit (Dar Tip)  Ölçek 1/8	CKR-80.04.05 Klepsli Kol  Ölçek 1/2
CKR-50.03.03 CKR-50.03.04  Ölçek 1/4	CKR-30.01.02 Sürme Çekme Kol  Ölçek 1/8	CKR-40.04.00 Baston kol  Ölçek 1/10	CKR-40.08.00 Yay kol  Ölçek 1/10
CKR-30.01.06 D Kol  Ölçek 1/8	CKR-10.01.01 Eksenel kol tekli  Ölçek 1/8	CKR-20.01.02 Sosis kol düz rozetli  Ölçek 1/8	CKR-20.01.03 Sosis kol kıvrık  Ölçek 1/8
CKR-10.01.02 Eksenel kol çiftli  Ölçek 1/8	CKR-10.01.03 Eksenel kol  Ölçek 1/8	CKR-20.01.04 Sosis kol kıvrık rozetli  Ölçek 1/8	CKR-20.01.05 Sosis kol düz aynalı  Ölçek 1/10
CKR-10.01.04 Eksenel kol tek dilli  Ölçek 1/8	CKR-10.01.05 Eksenel kol çift dilli  Ölçek 1/8	CKR-20.01.14 WC kol aynalı  Ölçek 1/10	CKR-20.01.27 WC aynalı kıvrık kol  Ölçek 1/10
CKR-10.01.07 Eksenel kol çift dilli anahtarlı  Ölçek 1/8	CKR-20.01.01 Sosis kol düz  Ölçek 1/8	CKR-40.01.00 Kıvrık boru kol  Ölçek 1/10	CKR-40.02.00 Yarım ay boru kol  Ölçek 1/10

W75-W65 Serisinde Uygulanan Kilit Karşılığı Kesitleri ve Kullanım Detayı

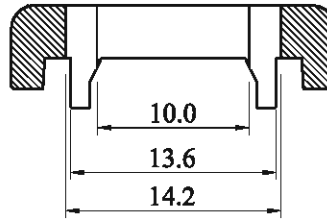
Dolu Kesit 14971-00 Ölçek: 2/1



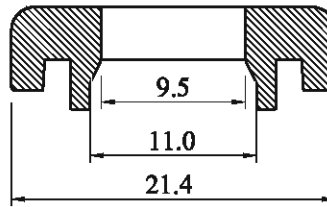
A Kesiti Ölçek: 2/1



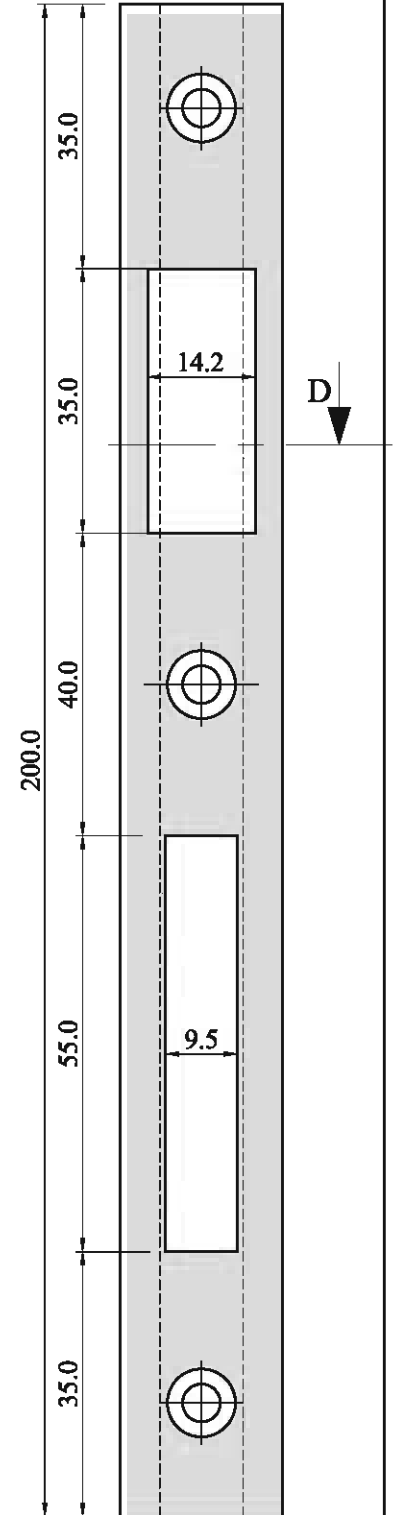
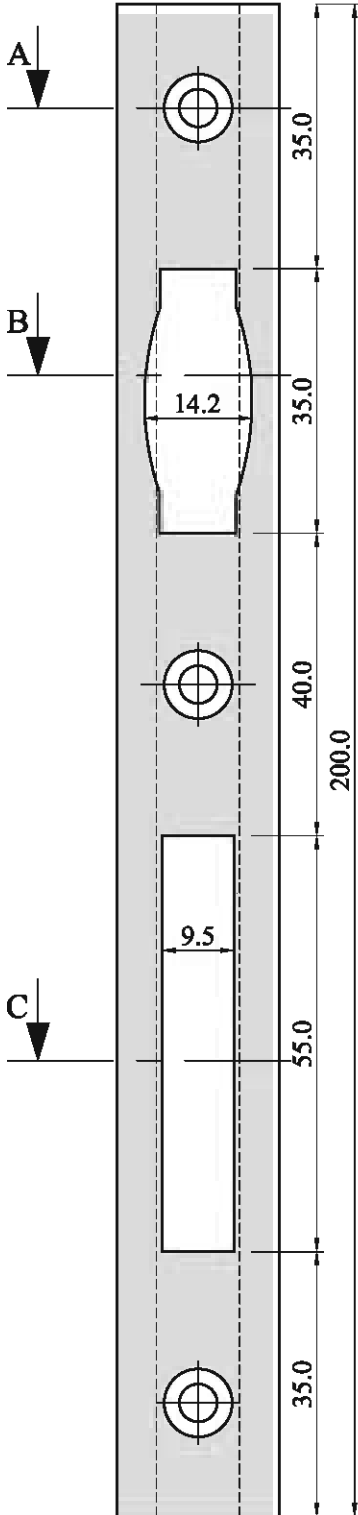
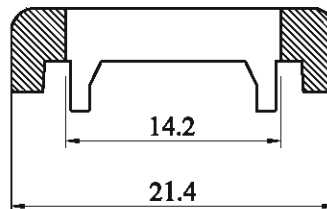
B Kesiti Ölçek: 2/1



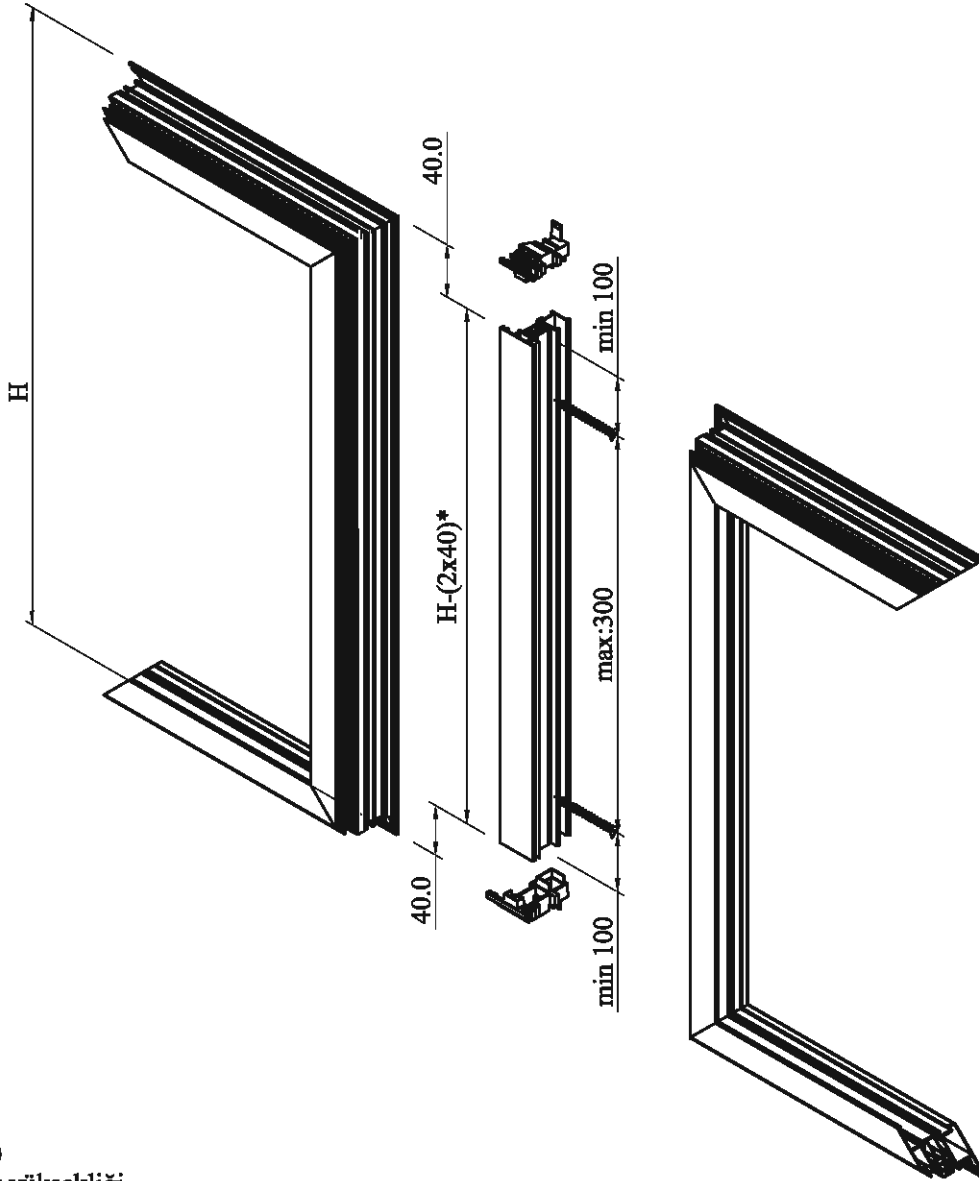
C Kesiti Ölçek: 2/1



D Kesiti Ölçek: 2/1



Çift Kanat Pencere Adaptör Plastiği
(W75-W65 serisinde çift kanat adaptörünü kертmeden kullanmak için)



- * H-(2x40)
H= kanat yüksekliği
40mm= Adaptör Kapağı yüksekliği
Buradan H-80 Adaptör kesim ölçüsünü verir.

MONTAJ SIRASI

- 1)- Sabit ve Hareketli kanatlar oluşturulur.
- 2)- Kanat yüksekliği ölçülür. Bu ölçüden 80 mm çıkarılarak Çift kanat adaptör profilinin ölçüsü bulunur.
- 3)- Adaptör profili sabit kanada montajı yapılır.
- 4)- FP-75 (yada FP-65) plastiği çift kanat adaptör profilinin altına ve üstüne takılır.
- 5)- İsteğe göre FP-75 (yada FP-65) plastiği adaptör profiline vidalanır.

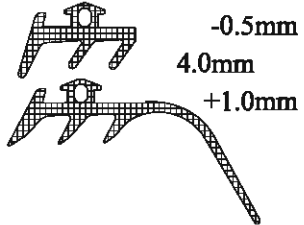
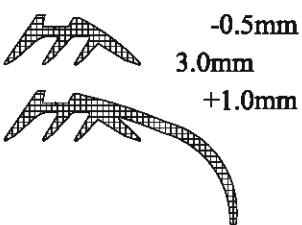
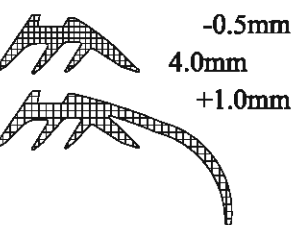
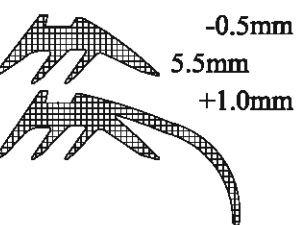
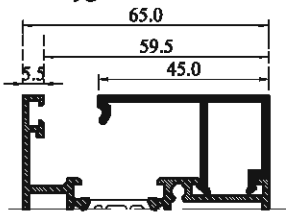
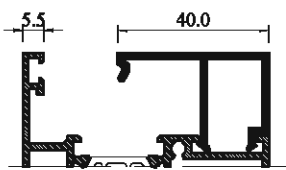
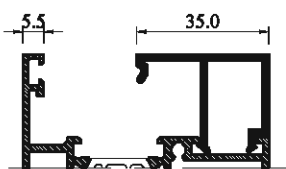
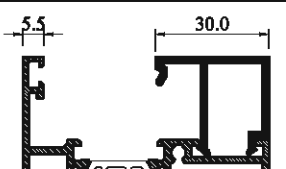
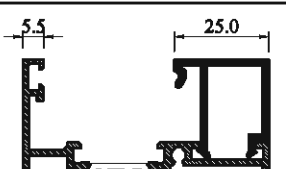
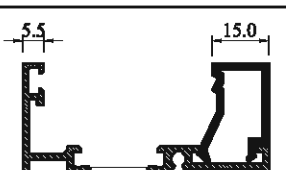
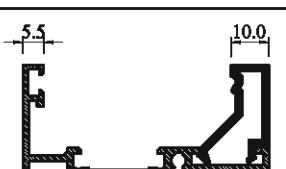
Euro Comfort Doğrama Sistemleri (W75, W65) Cam Çıtaları

"-" işaretinden sonraki 2 hane et kalınlıđını gösterir. (W445-16 Çıtası 1.6mm et kalınlıđındadır.)

W75 ve W65 sistemlerinde kullanılan cam çıtaları 22mm yüekseklıđindedir. Sürme sistemlerindeki ve diđer tüm Gençer sistemlerindeki cam çıtaları 19mm yüekseklıđindedir dolayısıyla bu çıtalar W75 ve W65 sistemlerinde kullanılmaz.

W450-16 0.475 Kg/m	W450-12 0.366 Kg/m	50.0	22.0	W445-16 0.453 Kg/m	W445-12 0.350 Kg/m	45.0
W440-16 0.431 Kg/m	W440-12 0.334 Kg/m	40.0		W435-16 0.410 Kg/m	W435-12 0.318 Kg/m	35.0
W430-16 0.388 Kg/m	W430-12 0.302 Kg/m	30.0		W425-16 0.366 Kg/m	W425-12 0.286 Kg/m	25.0
W420-16 0.333 Kg/m	W420-12 0.260 Kg/m	20.0		W415-16 0.305 Kg/m	W415-12 0.240 Kg/m	15.0
W410-16 0.296 Kg/m	W410-12 0.233 Kg/m	10.0		W405-16 0.213 Kg/m		5.5

W65 Doğrama Sistemi Cam Fitili & Çıta Seçim Tablosu

DIŞ CAM FİTİLİ			İÇ CAM FİTİLLERİ						
F-06A / FE-06A 			F-07A / FE-07A 		F-07 / FE-07 		F-08 / FE-08 		
Cam Ölçüsü	Kullanılabilir Cam Fitilleri		Elemanların Ölçüleri				Toplam	Kullanılan Çıta Kodu	Uygulama Resmi
	Diş Cam Fitili	İç Cam Fitili	Cam (mm)	Diş Cam Fitili	İç Cam Fitili	Cam Çıtası			
5.0 mm	F-06A	F-08	5.0	4.0	5.5	45.0	59.5 mm	W445-16	
6.0 mm	F-06A	F-08 / F-07	6.0	4.0	4.5	45.0			
7.0 mm	F-06A	F-07 / F-07A	7.0	4.0	3.5	45.0			
8.0 mm	F-06A	F-07A	8.0	4.0	2.5	45.0		W440-16	
9.0 mm	* F-06A	F-08	9.0	4.0	6.5	40.0			
10.0 mm	F-06A	F-08	10.0	4.0	5.5	40.0			
11.0 mm	F-06A	F-08 / F-07	11.0	4.0	4.5	40.0		W435-16	
12.0 mm	F-06A	F-07 / F-07A	12.0	4.0	3.5	40.0			
13.0 mm	F-06A	F-07A	13.0	4.0	2.5	40.0			
14.0 mm	* F-06A	F-08	14.0	4.0	6.5	35.0		W430-16	
15.0 mm	F-06A	F-08	15.0	4.0	5.5	35.0			
16.0 mm	F-06A	F-08 / F-07	16.0	4.0	4.5	35.0			
17.0 mm	F-06A	F-07 / F-07A	17.0	4.0	3.5	35.0		W425-16	
18.0 mm	F-06A	F-07A	18.0	4.0	2.5	35.0			
19.0 mm	* F-06A	F-08	19.0	4.0	6.5	30.0			
20.0 mm	F-06A	F-08	20.0	4.0	5.5	30.0			
21.0 mm	F-06A	F-08 / F-07	21.0	4.0	4.5	30.0		W415-16	
22.0 mm	F-06A	F-07 / F-07A	22.0	4.0	3.5	30.0			
23.0 mm	F-06A	F-07A	23.0	4.0	2.5	30.0			
24.0 mm	* F-06A	F-08	24.0	4.0	6.5	25.0		W410-16	
25.0 mm	F-06A	F-08	25.0	4.0	5.5	25.0			
26.0 mm	F-06A	F-08 / F-07	26.0	4.0	4.5	25.0			
27.0 mm	F-06A	F-07 / F-07A	27.0	4.0	3.5	25.0			
28.0 mm	F-06A	F-07A	28.0	4.0	2.5	25.0			
29.0 mm	* F-06A	F-08	29.0	4.0	6.5	20.0			
30.0 mm	F-06A	F-08	30.0	4.0	5.5	20.0			
31.0 mm	F-06A	F-08 / F-07	31.0	4.0	4.5	20.0			
32.0 mm	F-06A	F-07 / F-07A	32.0	4.0	3.5	20.0			
33.0 mm	F-06A	F-07A	33.0	4.0	2.5	20.0			
34.0 mm	* F-06A	F-08	34.0	4.0	6.5	15.0			
35.0 mm	F-06A	F-08	35.0	4.0	5.5	15.0			
36.0 mm	F-06A	F-08 / F-07	36.0	4.0	4.5	15.0			
37.0 mm	F-06A	F-07 / F-07A	37.0	4.0	3.5	15.0			
38.0 mm	F-06A	F-07A	38.0	4.0	2.5	15.0			
39.0 mm	* F-06A	F-08	39.0	4.0	6.5	10.0			
40.0 mm	F-06A	F-08	40.0	4.0	5.5	10.0			
41.0 mm	F-06A	F-08 / F-07	41.0	4.0	4.5	10.0			
42.0 mm	F-06A	F-07 / F-07A	42.0	4.0	3.5	10.0			
43.0 mm	F-06A	F-07A	43.0	4.0	2.5	10.0			

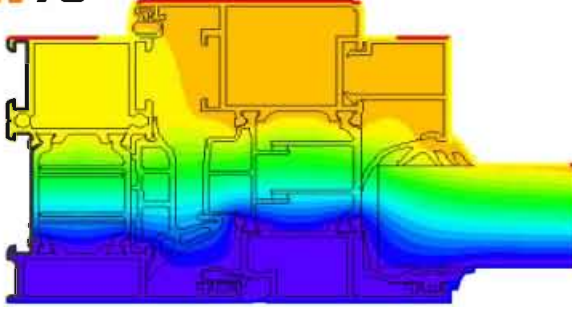
W75-W65 SİSTEMLERİNDE ISI İLETİM DEĞERLERİ VE HESAPLAMALARI

Uf : profilin ısı iletim katsayısı Ug : camın ısı iletim katsayısı Uw : pencerenin ısı iletim katsayısı

Uf ve Lf değerlerini kullanarak Uw hesaplamak için bkz. sayfa 47

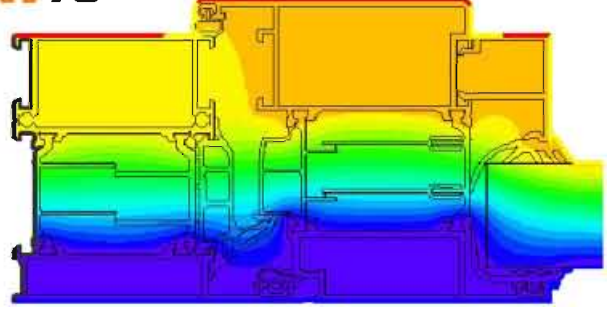
(Ug = 1.5 W/(m².K) olmak üzere alanca %75'i cam olan pencerenin Uw değeri aşağıda verilmiştir)

W75



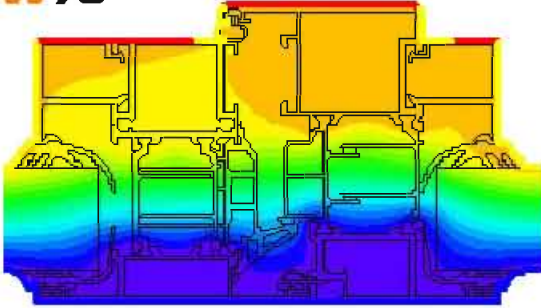
Kasa: 75021-16 Kanat: 75361-16
Lf: 110.5 mm Uf: 1.778 W/(m².K) Uw: 1.57 W/(m².K)

W75



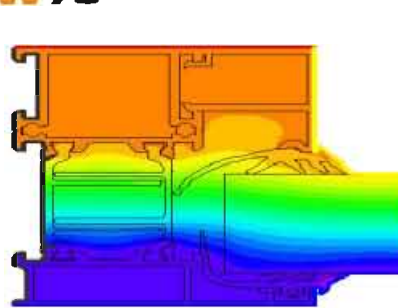
Kasa: 75031-16 Kanat: 75381-16
Lf: 150.5 mm Uf: 1.744 W/(m².K) Uw: 1.56 W/(m².K)

W75



Kasa: 75221-16 Kanat: 75361-16
Lf: 132.5 mm Uf: 1.852 W/(m².K) Uw: 1.59 W/(m².K)

W75



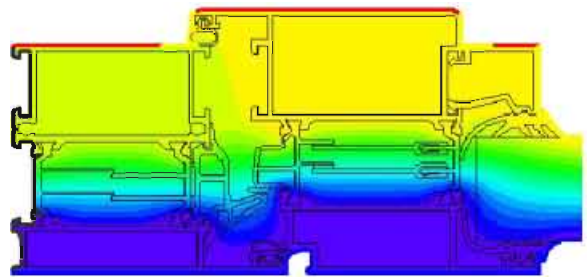
Kasa: 75021-16
Lf: 58 mm Uf: 1.487 W/(m².K) Uw: 1.50 W/(m².K)

W65



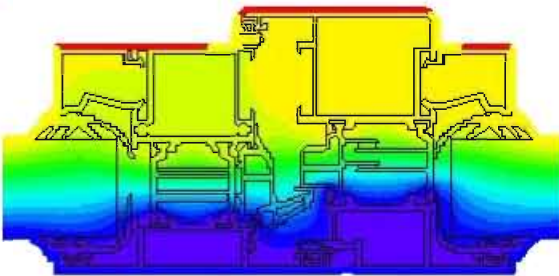
Kasa: 65021-16 Kanat: 65361-16
Lf: 110.5 mm Uf: 2.156 W/(m².K) Uw: 1.66 W/(m².K)

W65



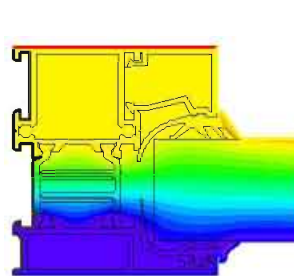
Kasa: 65031-16 Kanat: 65381-16
Lf: 150.5 mm Uf: 2.053 W/(m².K) Uw: 1.64 W/(m².K)

W65



Kasa: 65221-16 Kanat: 65361-16
Lf: 132.5 mm Uf: 2.198 W/(m².K) Uw: 1.67 W/(m².K)

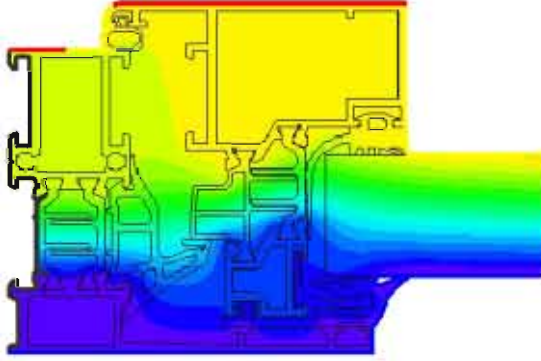
W65



Kasa: 65021-16
Lf: 58 mm Uf: 1.925 W/(m².K) Uw: 1.61 W/(m².K)

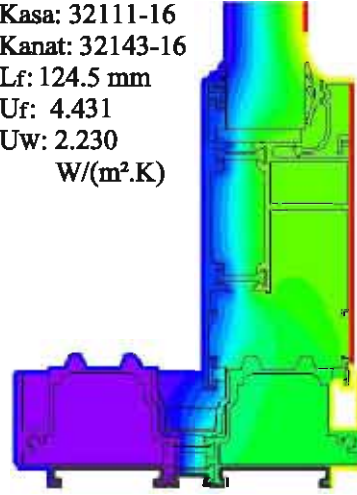
W65

Kasa: 65012-16 Kanat: 65326-16
Lf: 85.0 mm Uf: 2.286 W/(m².K)
Uw: 1.170 W/(m².K)



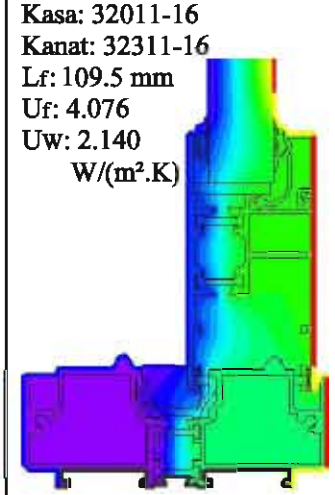
S32 GENİŞ

Kasa: 32111-16 Kanat: 32143-16
Lf: 124.5 mm Uf: 4.431
Uw: 2.230 W/(m².K)

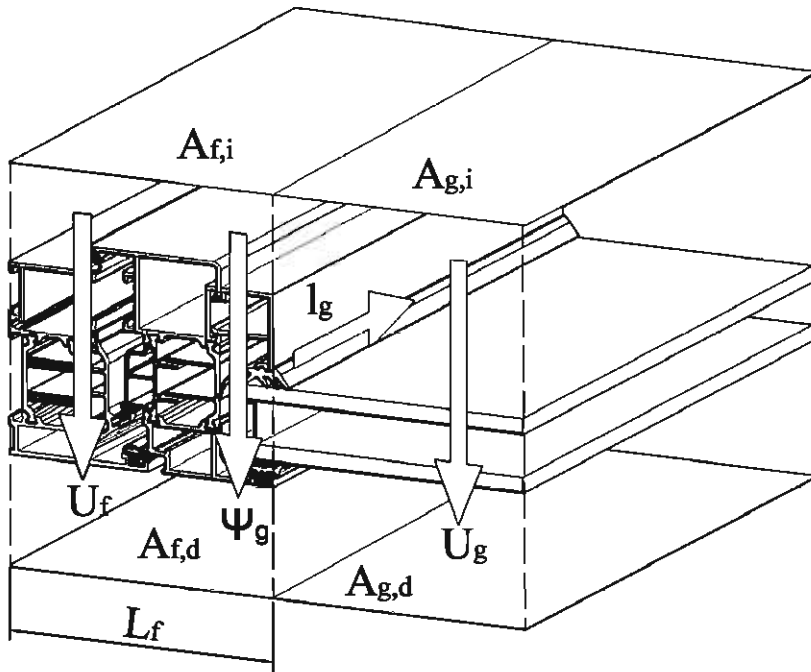


S32 DAR

Kasa: 32011-16 Kanat: 32311-16
Lf: 109.5 mm Uf: 4.076
Uw: 2.140 W/(m².K)



PENCERENİN ISIL İLETİM KATSAYISI (Uw)



$$U_w = \frac{A_g U_g + A_f U_f + l_g \Psi_g}{A_g + A_f}$$

U_w = Pencerenin Isıl İletim Katsayısı (W/m²K)
 A_g = Cam (Panel) Alanı (m²)
 U_g = Camın (Panel) Isıl İletim Katsayısı (W/m²K)
 A_f = Profilin Alanı (m²)
 U_f = Profilin Isıl İletim Katsayısı (W/m²K)
 l_g = Cam Çıtası uzunluğu (m)
 Ψ_g = Doğrusal Isıl İletim Katsayısı (W/mK)
 L_f = Profilin Uzunluğu (mm)

Ψ_g (W/mK)		ISICAM (II,III)	
		Standart	Low-E
Isıcam	Standart	0.08	0.11
Çıtası	Geliştirilmiş	0.06	0.08

Tek cam kullanımında $\Psi_g \times l_g = 1$ alınır.

(TS EN 10077-1)

ÖRNEK

Yanda ölçüleri verilen pencere için U_w değeri hesaplanırken; Sayfa 46 dikkate alınarak çerçevede farklı profil detayları için alanlar ayrı ayrı hesaplanır. Buna göre;

Mavi profil alanı $A_m = 0.18 \text{ m}^2$, $U_{fm} = 1.85 \text{ W/m}^2\text{K}$

Yeşil profil alanı $A_y = 0.26 \text{ m}^2$, $U_{fy} = 1.49 \text{ W/m}^2\text{K}$

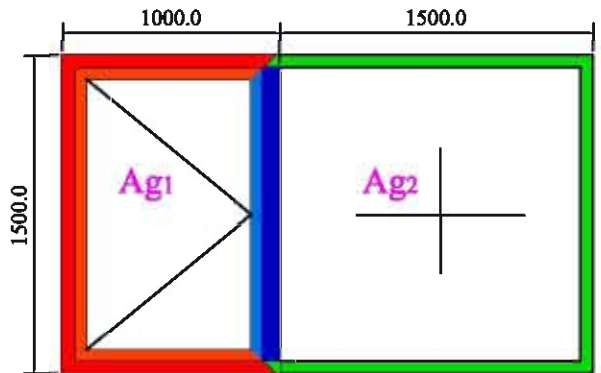
Kırmızı profil alanı $A_k = 0.35 \text{ m}^2$, $U_{fk} = 1.78 \text{ W/m}^2\text{K}$

Formülde bu değerler yerlerine konulduğunda ;

($U_g = 1.5 \text{ W/m}^2\text{K}$ olan 6+16+6 Low-E ısıcam için hesaplanacaktır.)

Cam alanı: $A_{g1} + A_{g2} = 1 + 1.96 = 2.96 \text{ m}^2$

$$U_w = \frac{(0.18 \times 1.85) + (0.26 \times 1.49) + (0.35 \times 1.78) + (2.96 \times 1.5)}{0.18 + 0.26 + 0.35 + 2.96} = 1.54 \text{ W/m}^2\text{K}$$



Ayrıntılı alan hesaplamaları yerine, yine sayfa 46 da bulunan L_f değerleri kullanılarak da çerçeve alanı yaklaşık olarak hesaplanabilir. Farklı detay ve sistemlerin ısı iletim katsayıları ve sorularınız için AR-GE bölümü ile görüşebilirsiniz.

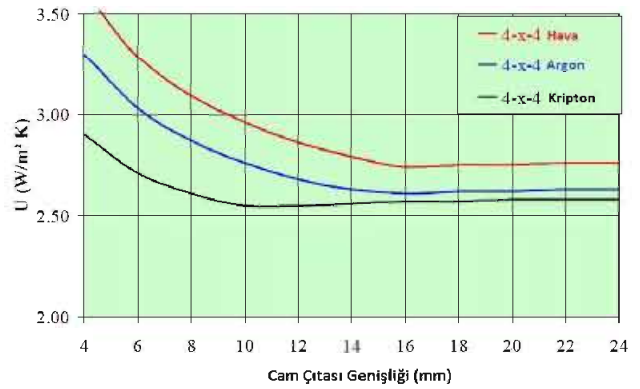
CAM SEÇİMİ İÇİN GENEL BİLGİLENDİRME

TABLO 1: Isıcam Performans Tablosu

Dış Cam + Ara Boşluk + İç Cam		Gün Işığı		Güneş Enerjisi		Isı Geçirgenlik Katsayısı (W/m²K EN 673)	
		Geçirgenlik	Yansıtma	Toplam Geçirgenlik	Gölgeleme Katsayısı	Kuru Hava	Argon
Isıcam	6 + 6 + 6	76	14	0.69	0.81	3.3	3.0
	6 + 9 + 6					3.0	2.8
	6 + 12 + 6					2.8	2.7
	6 + 16 + 6					2.7	2.6
Triple Isıcam	6 + 6 + 4 + 6 + 6	70	19	0.62	0.72	2.0	1.9
	6 + 9 + 4 + 9 + 6					1.9	1.8
Isıcam Sinerji	6 + 6 + 6 (low-e #2)	73	11	0.54	0.63	2.5	2.1
	6 + 9 + 6 (low-e #2)					2.1	1.7
	6 + 12 + 6 (low-e #2)					1.8	1.4
	6 + 16 + 6 (low-e #2)					1.5	1.3
Triple Isıcam Sinerji	6 + 6 + 4 + 6 + 6 (low-e #2)	65	15	0.50	0.58	1.9	1.6
	6 + 9 + 4 + 9 + 6 (low-e #2)					1.6	1.3
	6 + 12 + 4 + 12 + 6 (low-e #2, #5)					1.3	1.1
	6 + 6 + 4 + 6 + 6 (low-e #2, #5)	51	13	0.43	0.50	1.6	1.3
	6 + 9 + 4 + 9 + 6 (low-e #2, #5)					1.3	1.0
	6 + 12 + 4 + 12 + 6 (low-e #2, #5)					1.0	0.8
Isıcam Konfor	6 + 6 + 6	70	13	0.48	0.56	2.5	2.1
	6 + 9 + 6					2.0	1.6
	6 + 12 + 6					1.7	1.4
	6 + 16 + 6					1.4	1.2
Triple Isıcam Konfor	6 + 6 + 4 + 6 + 6	63	17	0.43	0.50	1.9	1.6
	6 + 9 + 4 + 9 + 6					1.5	1.3
	6 + 12 + 4 + 12 + 6					1.3	1.1
	6 + 6 + 4 + 6 + 6 (low-e #5)	50	15	0.38	0.44	1.6	1.3
	6 + 9 + 4 + 9 + 6 (low-e #5)					1.2	1.0
	6 + 12 + 4 + 12 + 6 (low-e #5)					1.0	0.8

Isıcam Sinerji; ısı kontrol (Low-E) kaplamalı yalıtım camı ünitesinin markasıdır. Gün ışığını engellemez.
Isıcam Konfor; ısı yalıtımı ve güneş kontrol özelliklerini bir arada sağlayan yalıtım camı ünitesinin markasıdır.

Yandaki grafikte; Ara boşlukta hava, argon veya kripton kullanıldığı durumlar için ısıcam ara boşluk genişliğinin ısı iletim katsayısı ile ilişkisi gösterilmiştir.



TABLO 2: Isıcam'da Ünite Alanına Göre En Az Cam Kalınlığı ve Ara Boşlukların Saptanması

Cam Kalınlıkları	Ara Boşluklar	Cam Ünitesinde En Uzun Kenar (mm)	Alan (m²)
3 + 3	6	1500	1.0
	9	1600	1.2
	12	1600	1.4
4 + 4	6	1600	1.5
	9	1800	2.0
	12	2000	2.6
5 + 5	6	2100	3.0
	9	2300	3.8
	12	2500	4.2
6 + 6	6	2500	5.0
	9	2700	5.8
	12	3000	6.9

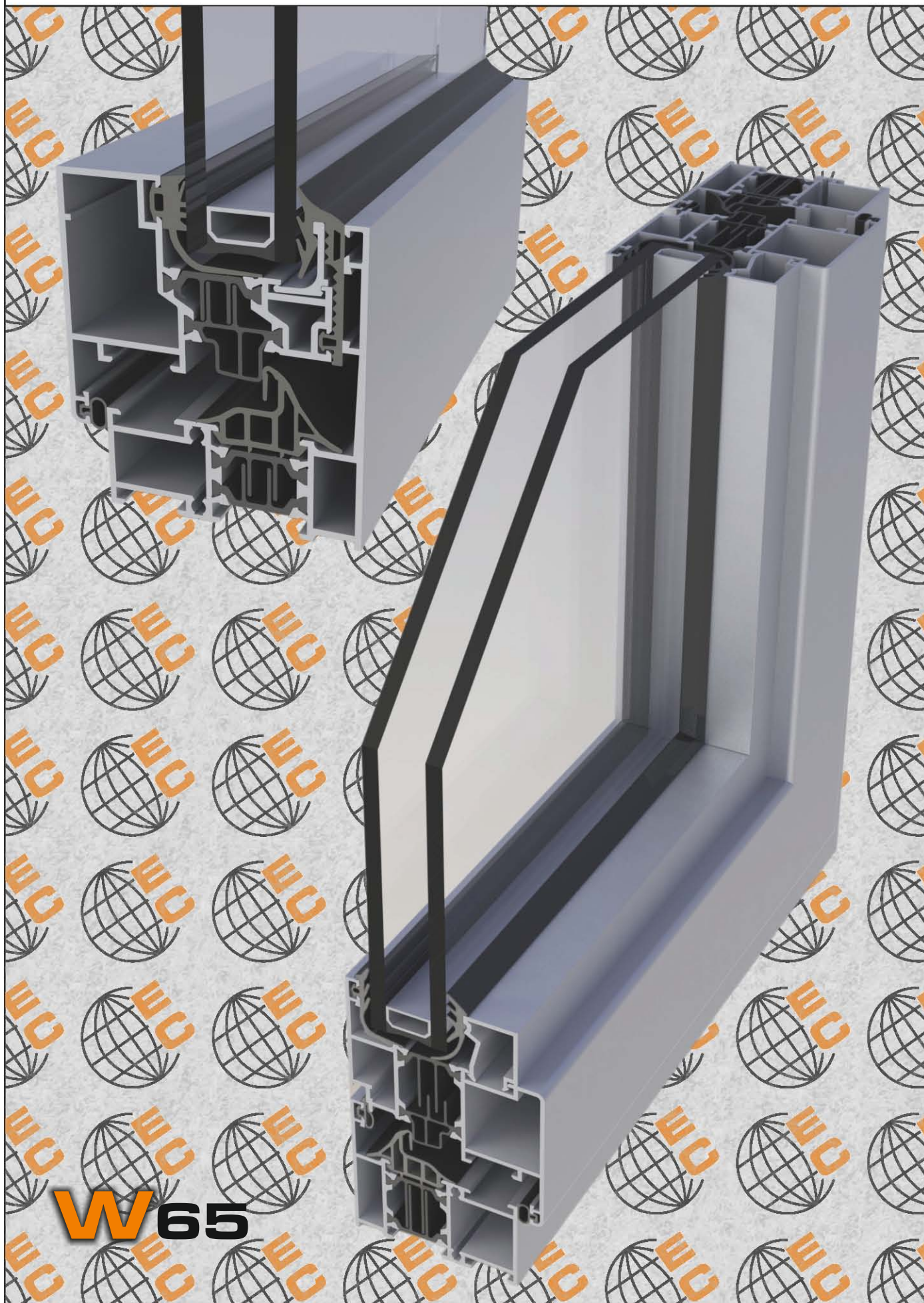
- Isıcam'da standart boyut;

en az; 180 x 350 mm
en fazla; 300 x 3000 mm'dir.

- Tablodaki cam kalınlıkları alan ve kenar uzunluğuna göre en az olması gerekenlerdir.

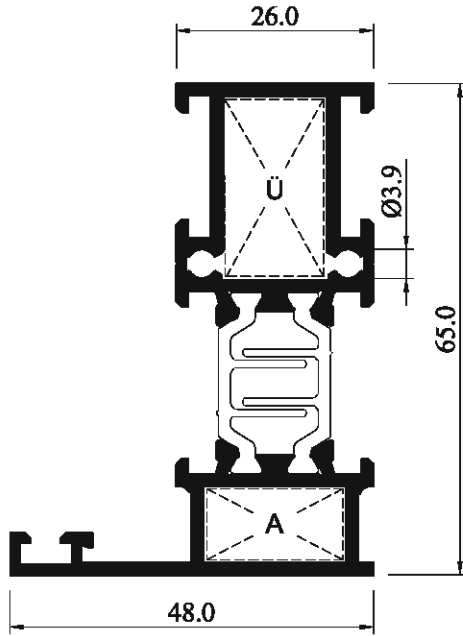
- Cam yuvası yeterli genişlikte ise ihtiyaca göre daha kalın cam ve daha geniş ara boşluk seçilebilir.

- Camın ağırlığı her mm kalınlık için 2.5 kg/m²'dir

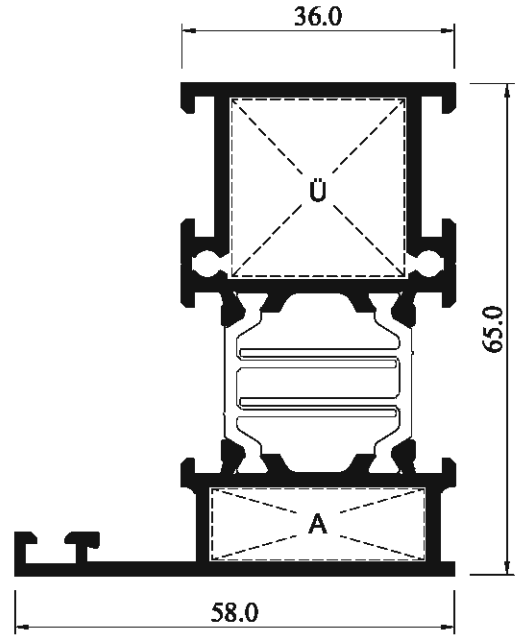


W65

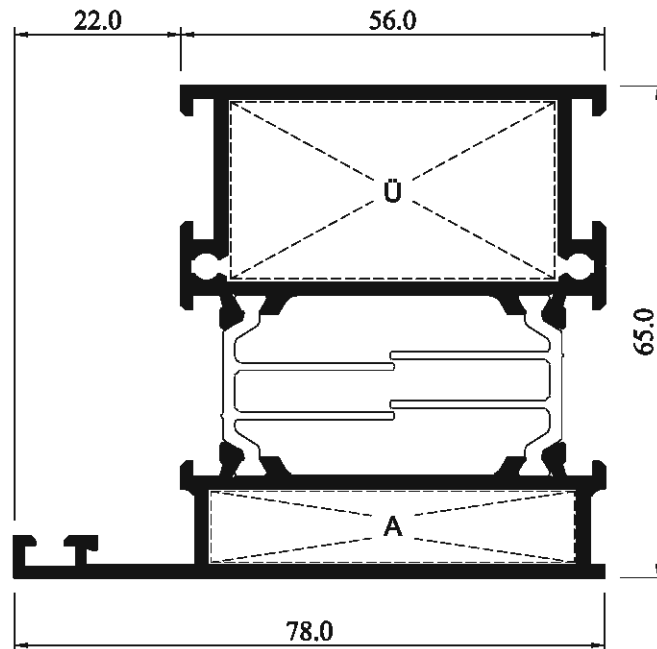
KASALAR / FRAMES



W65011-16
W65011-20



W65021-16
W65021-20

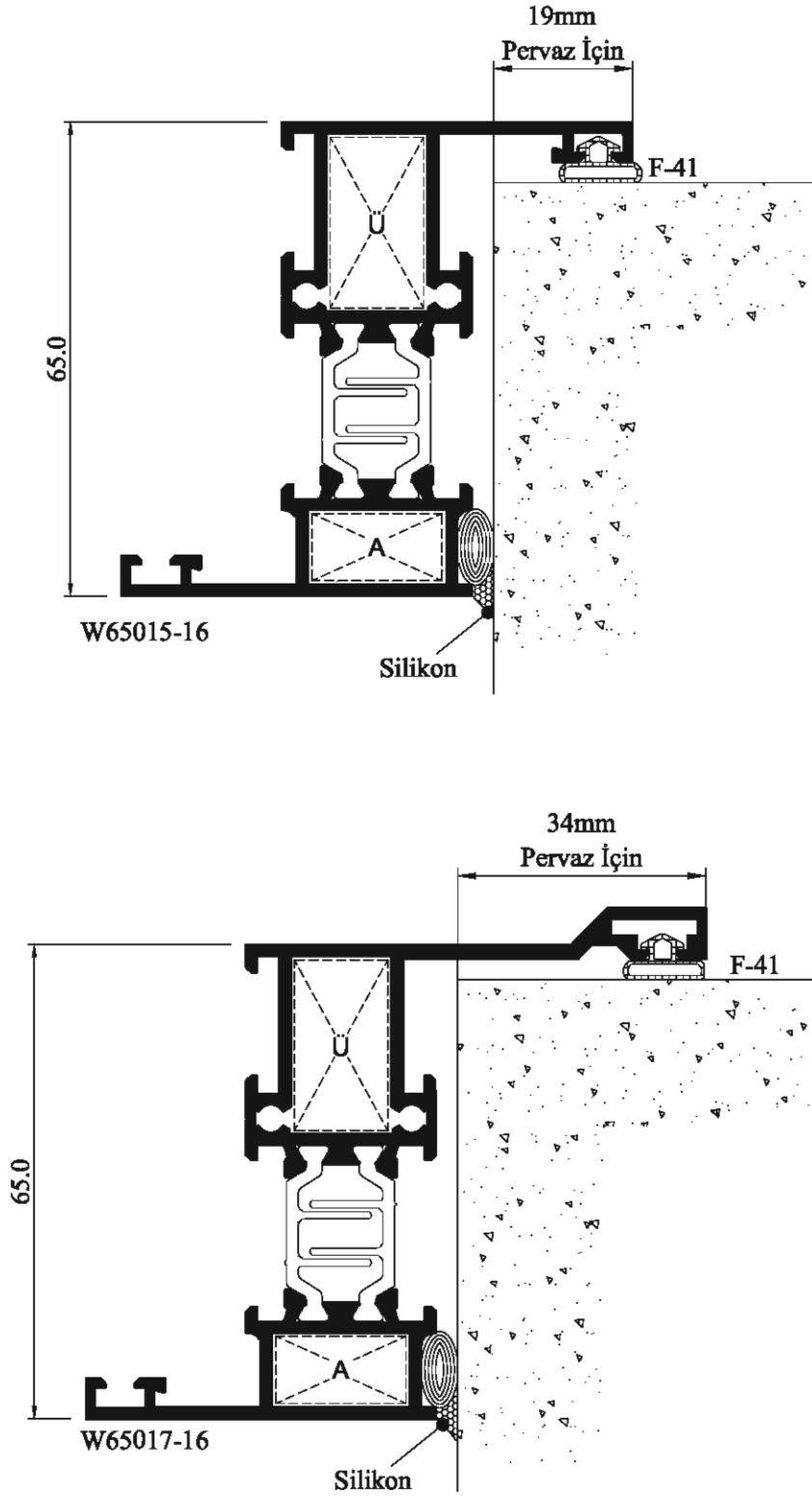


W65031-16
W65031-20

PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x	I _y
W65011-16	1.336	T851-185 / 9.7	T851-135 / 23.9	22.24	6.02
W65011-20	1.470	T851-175 / 8.9	T851-121 / 23.5	25.40	6.38
W65021-16	1.573	T851-286 / 9.7	T851-236 / 23.9	26.24	12.33
W65021-20	1.748	T85-270 / 8.9	T85-225 / 23.5	30.31	13.15
W65031-16	1.920	T85-478 / 9.7	T851-432 / 23.9	33.95	35.75
W65031-20	2.182	T85-478 / 8.9	T851-424 / 23.5	39.84	38.59

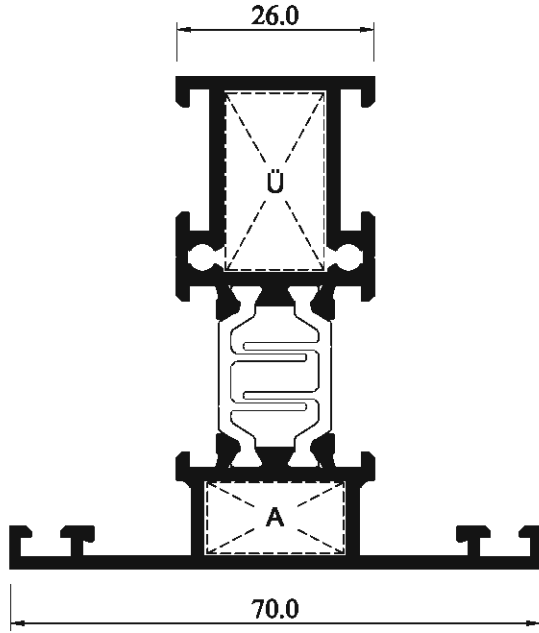
Farklı et kalınlığında mevcut olan profiller için 1.6 mm et kalınlığı resmedilmiştir. W65XYZ-AB profil kodu olmak üzere; Profilin et kalınlığı A.B mm'dir.

PERVAZLI KASALAR / *FRAMES*

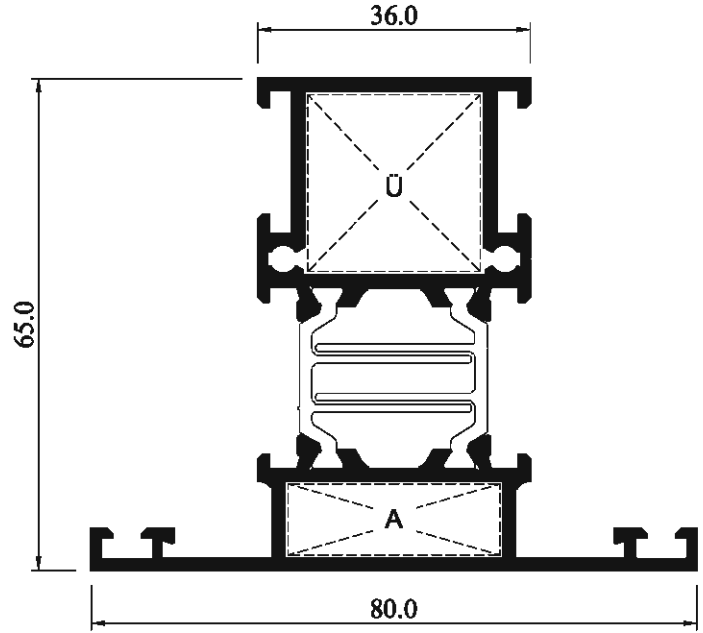


PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x	I _y
W65015-16	1.462	T851-185 / 9.7	T851-135 / 23.9	27.57	9.63
W65017-16	1.594	T851-185 / 9.7	T851-135 / 23.9	33.89	17.83

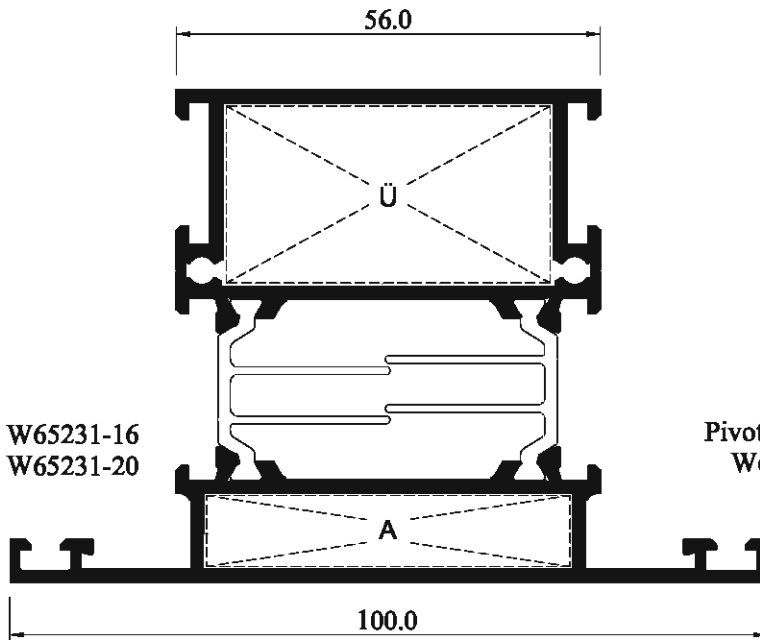
ORTA KAYITLAR / TRANSOM-MULLION PROFILES



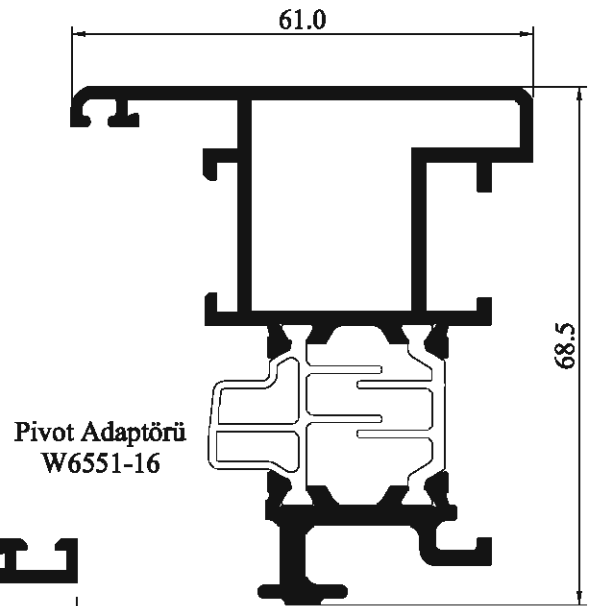
W65211-16
W65211-20



W65221-16
W65221-20



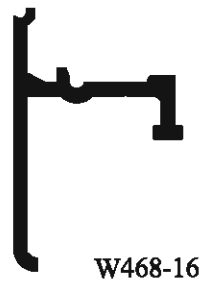
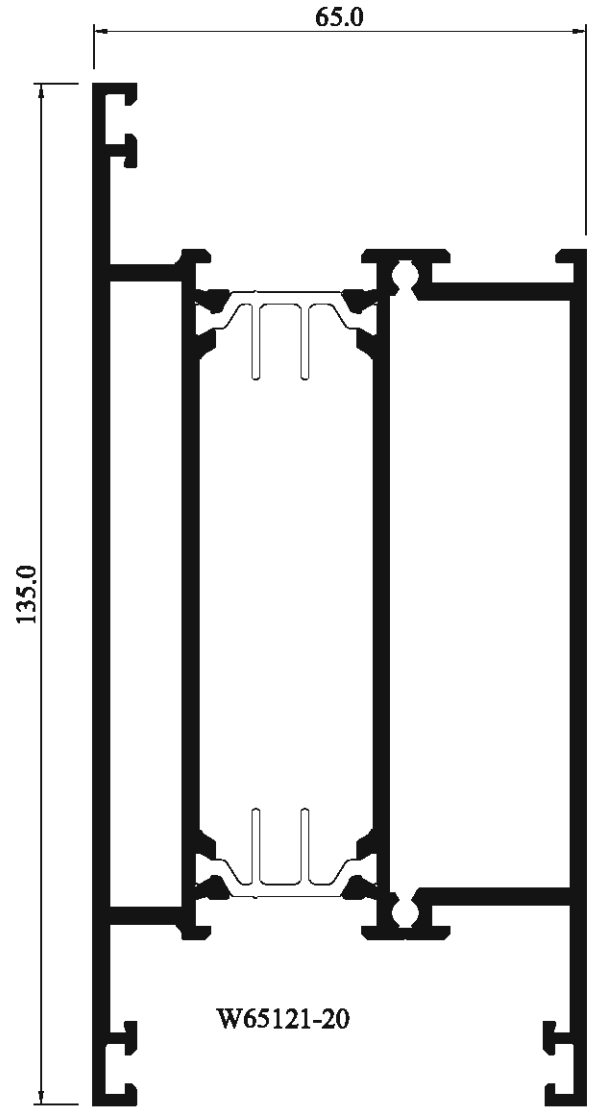
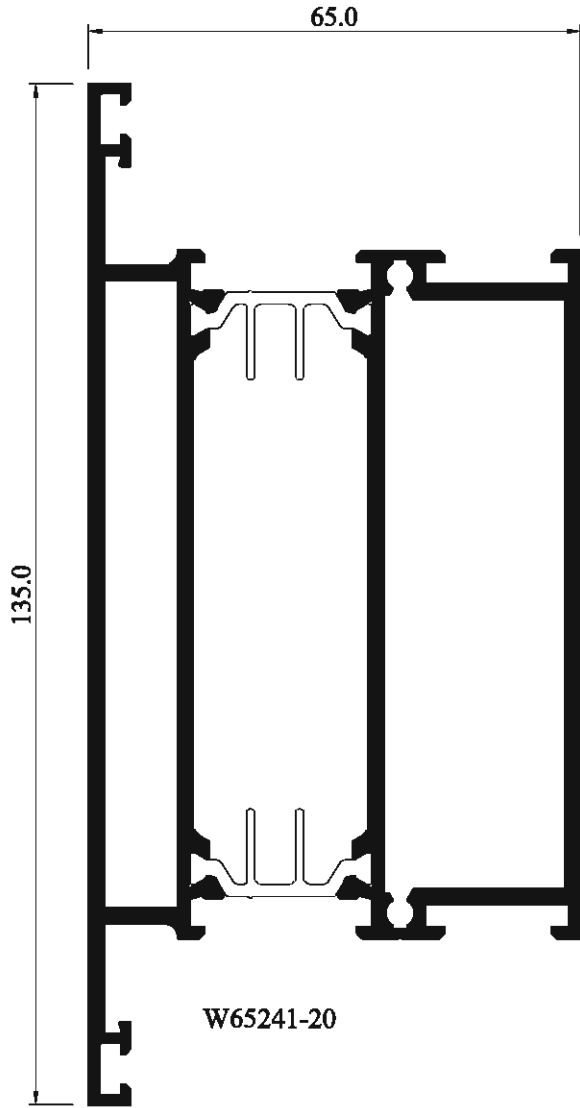
W65231-16
W65231-20



Pivot Adaptörü
W6551-16

PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x	I _y
W65211-16	1.469	T851-185 / 9.7	T851-135 / 23.9	25.36	9.68
W65211-20	1.616	T851-175 / 8.9	T851-121 / 23.5	28.36	10.18
W65221-16	1.706	T851-286 / 9.7	T851-236 / 23.9	29.39	17.37
W65221-20	1.894	T85-270 / 8.9	T85-225 / 23.5	33.78	18.47
W65231-16	2.053	T85-478 / 9.7	T851-432 / 23.9	37.16	44.30
W65231-20	2.328	T85-478 / 8.9	T851-424 / 23.5	43.38	47.71
W6551-16	1.574	-	T851-210 / 27.7	-	-

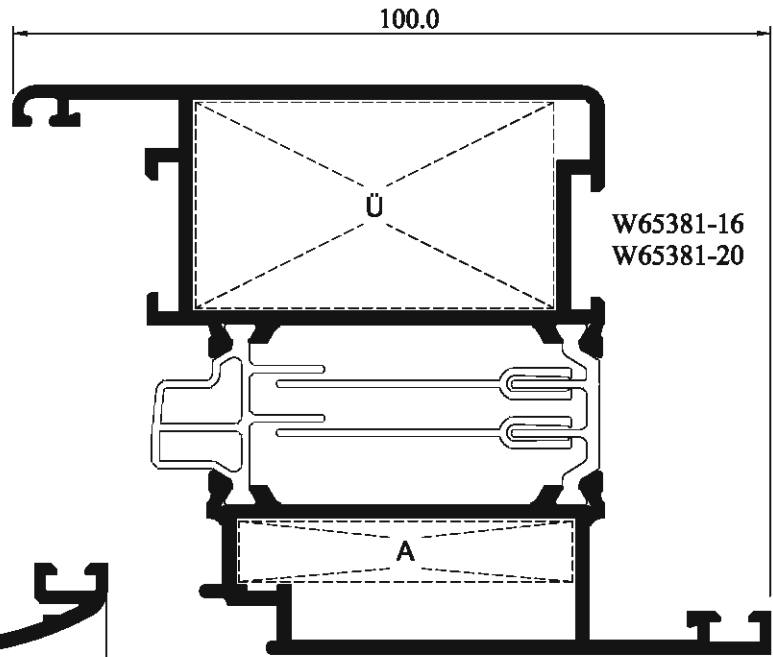
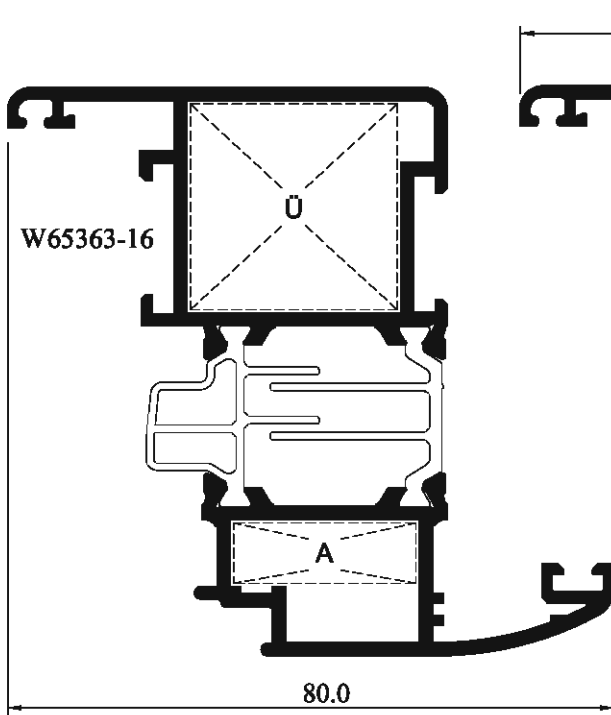
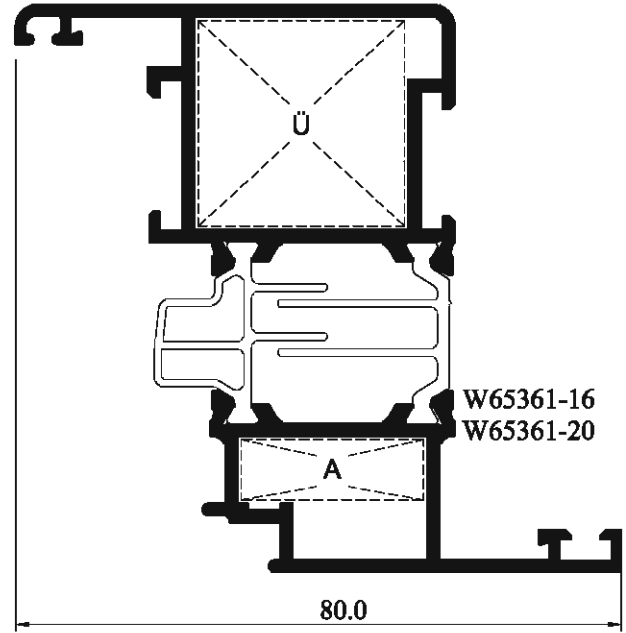
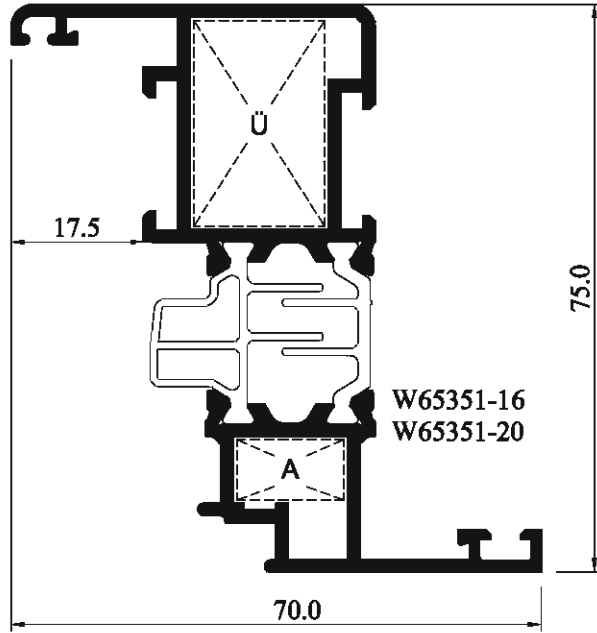
ORTA KAYITLAR ve ETEK TEŞKİL PROFİLLERİ
TRANSOM-MULLION PROFILES and KICKPLATE PROFILES



Etek detayı için bkz. Sayfa 108

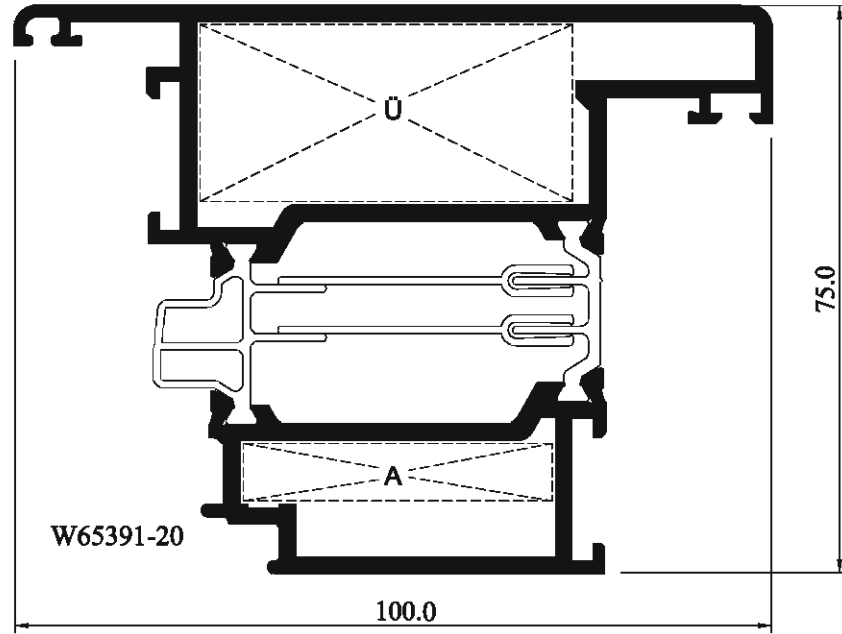
PROFİL KODU	AĞIRLIK (kg/m)	I x	I y
W65241-20	3.017	59.60	140.27
W65121-20	3.159	-	-
W465-20	0.439	-	-
W468-16	0.376	-	-

KANATLAR / SASH PROFILES

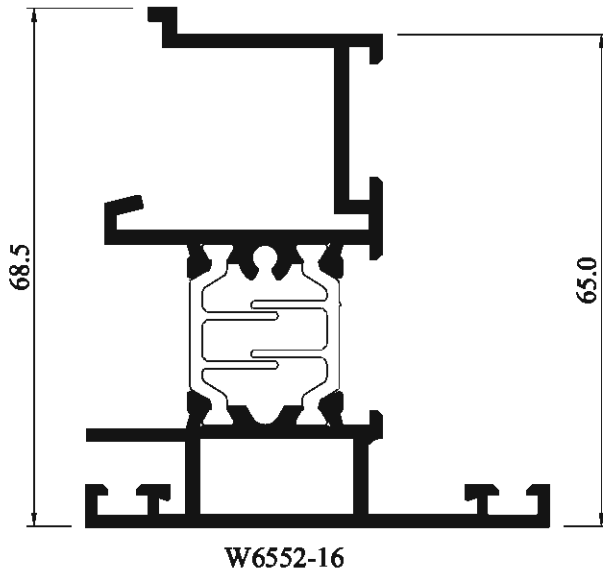


PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x	I _y
W65351-16	1.558	T851-146 / 8.5	T851-175 / 27.7	-	-
W65351-20	1.758	T851-140 / 8.1	T851-165 / 26.9	-	-
W65361-16	1.755	T851-246 / 8.5	T851-280 / 27.7	-	-
W65361-20	1.998	T851-240 / 8.1	T85 - 270 / 26.9	-	-
W65363-16	1.797	T851-246 / 8.5	T851-280 / 27.7	-	-
W65381-16	2.212	T851-445 / 8.5	T85-478 / 27.7	-	-
W65381-20	2.542	T851-437 / 8.1	T85-468 / 26.9	-	-

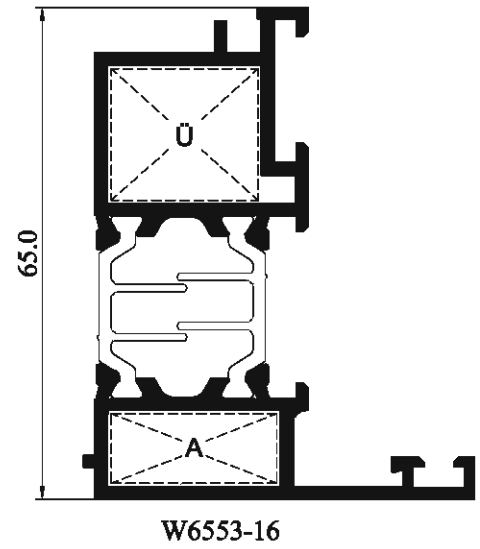
DIŞA AÇILIR KAPI KANADI / DOOR SASH PROFILE OPENING OUTSIDE



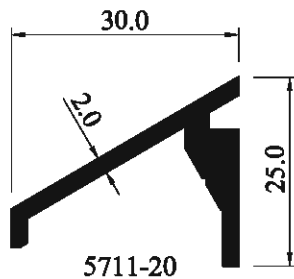
ÇİFT KANAT ADAPTÖRÜ
ADJOINING SASH ADAPTER



DIŞA AÇILIR KAPI ADAPTÖRÜ
OUTSIDE OPENING DOOR ADAPTER

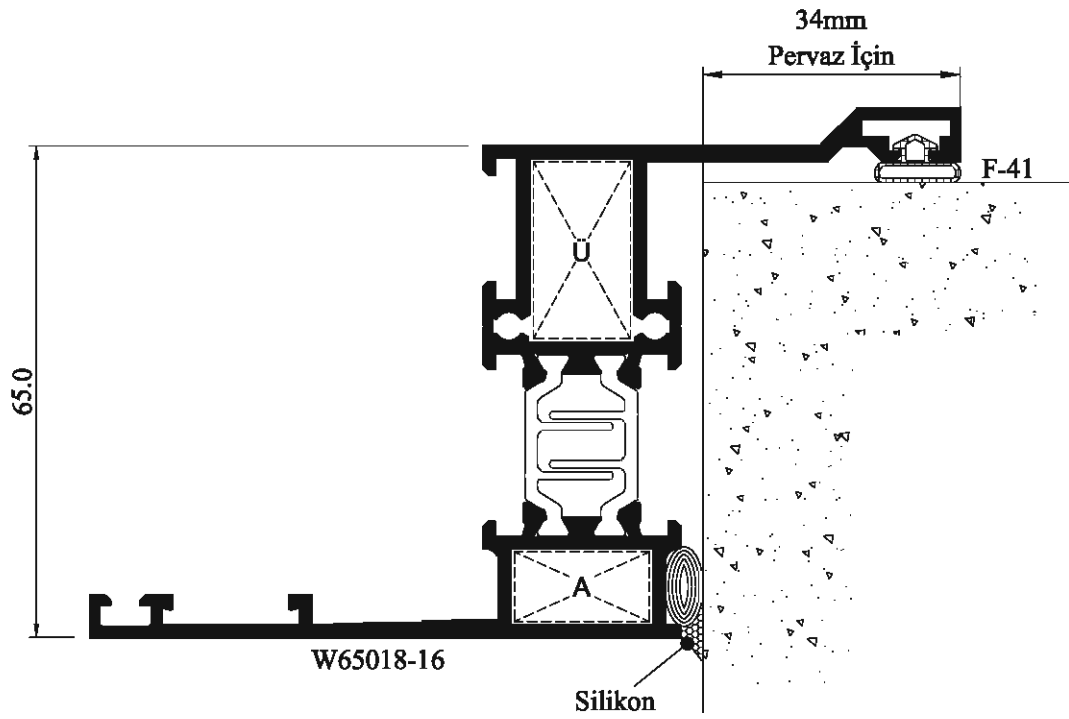
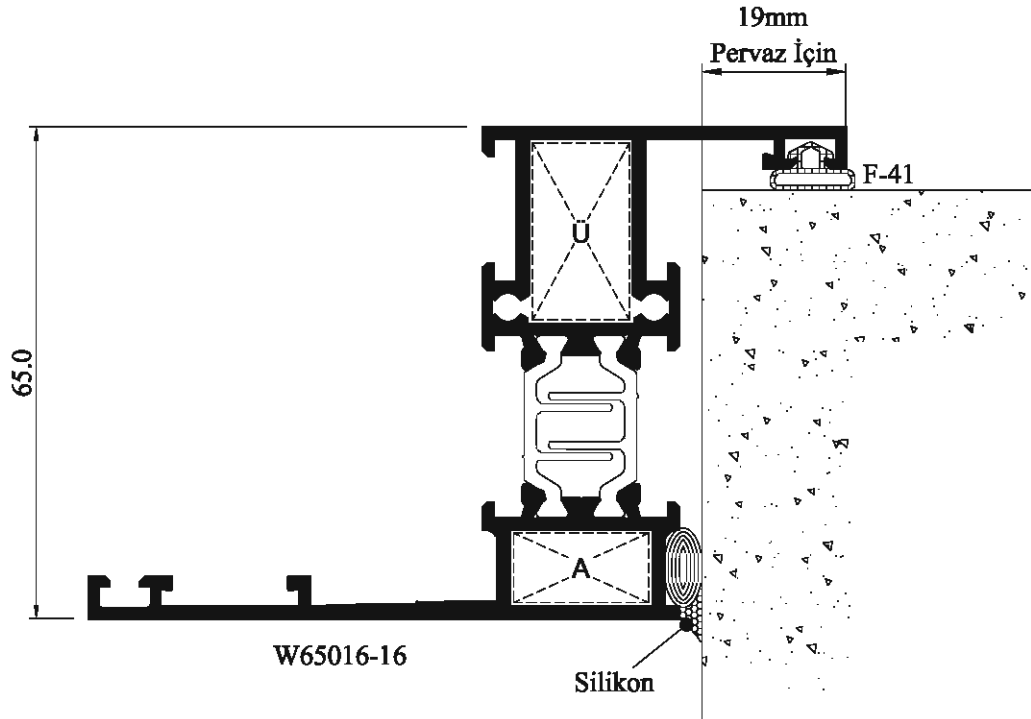


DAMLALIK PROFİLİ
WINDOWSILL PROFILE



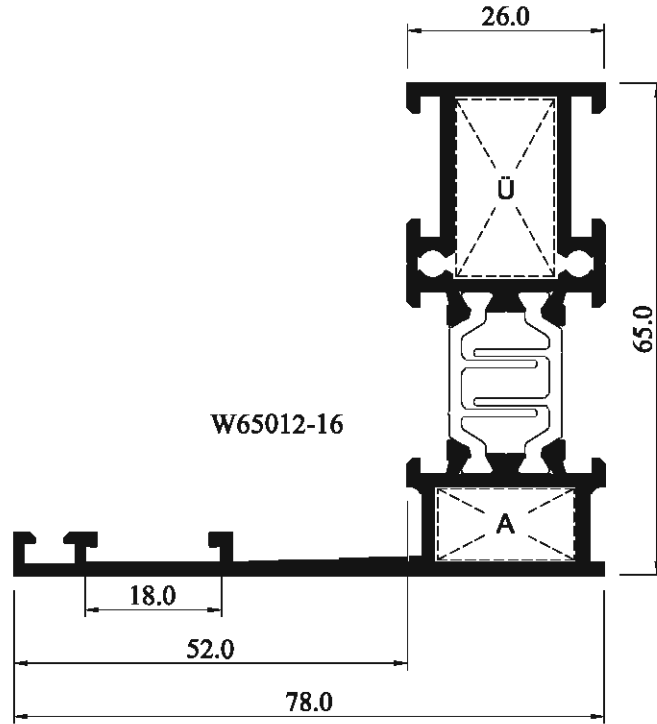
PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x	I _y
W65391-20	2.372	T851-412 / 8.1	T85-498 / 23.9	-	-
W6552-16	1.388	-	-	-	-
W6553-16	1.324	T85-225 / 9.7	T851-196 / 17.9	16.46	7.93
5711-20	0.404	-	-	-	-

GİZLİ KANAT PERVAZLI KASALARI / *HIDDEN FRAME PROFILE*

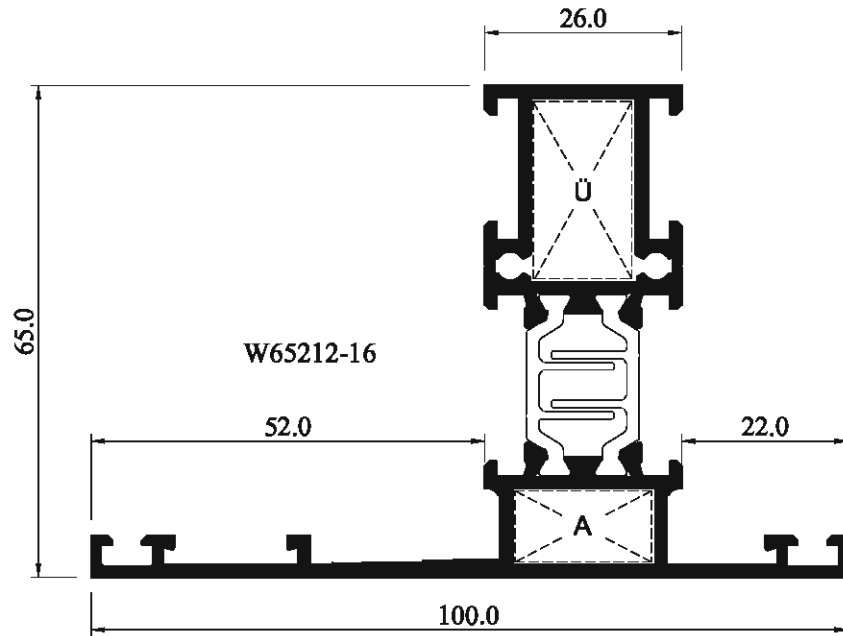


PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x	I _y
W65016-16	1.640	T851-185 / 9.7	T851-135 / 23.9	38.30	26.17
W65018-16	1.772	T851-185 / 9.7	T851-135 / 23.9	46.31	36.42

GİZLİ KANAT KASASI / *FRAME PROFILE FOR HIDDEN SASH*

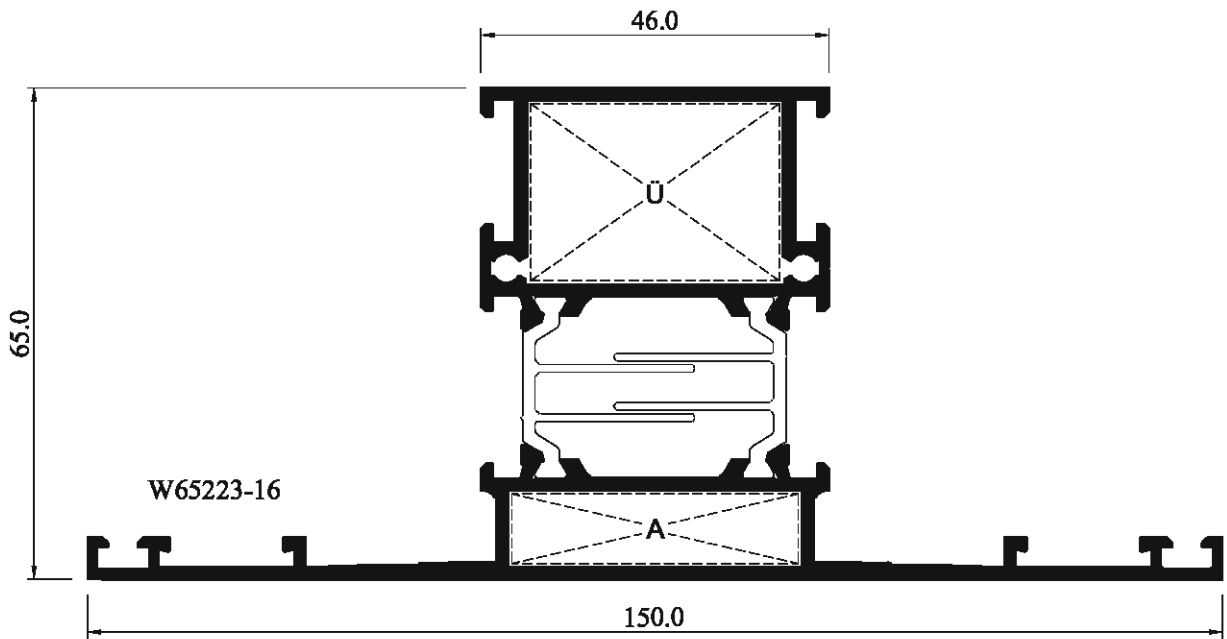
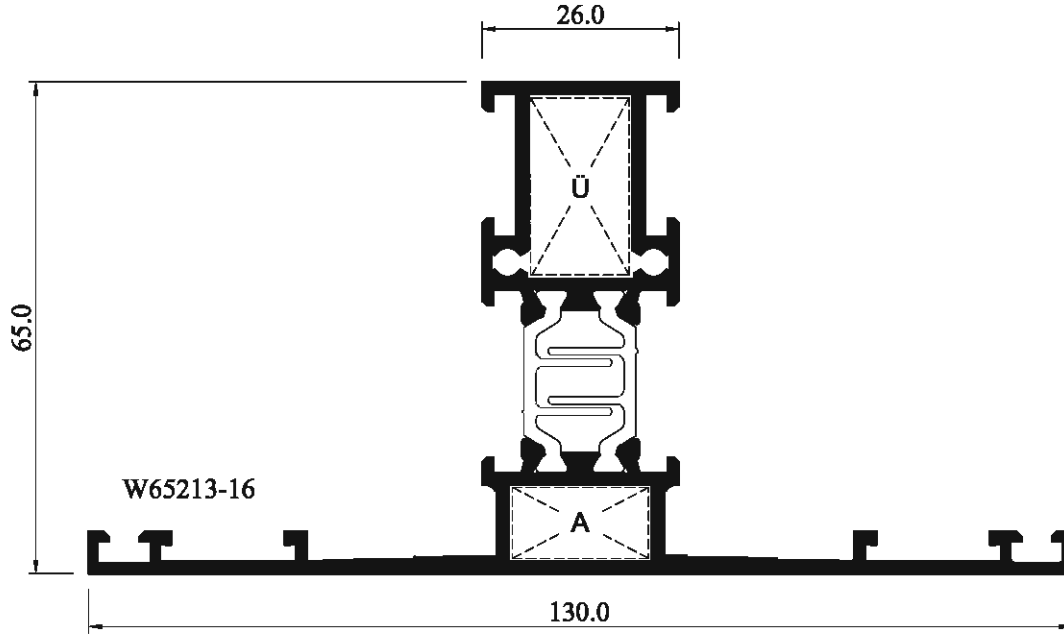


GİZLİ KANAT ORTA KAYIT / *TRANSOM-MULLION PROFILE FOR HIDDEN SASH*



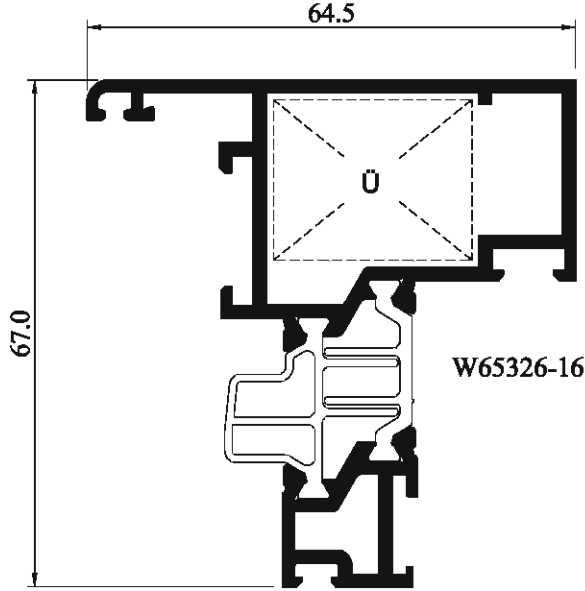
PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x	I _y
W65012-16	1.514	T851-185 / 9.7	T851-135 / 23.9	31.42	21.18
W65212-16	1.647	T851-185 / 9.7	T851-135 / 23.9	34.63	26.28

GİZLİ KANAT ORTA KAYITLARI / *TRANSOM-MULLION PROFILES FOR HIDDEN SASH*

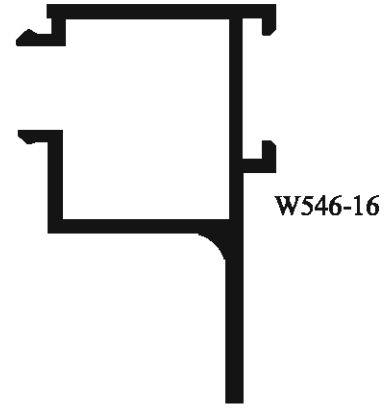


PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I x	I y
W65213-16	1.825	T851-185 / 9.7	T851-135 / 23.9	38.39	45.42
W65223-16	2.235	T851-382 / 9.7	T851-334 / 23.9	47.80	79.36

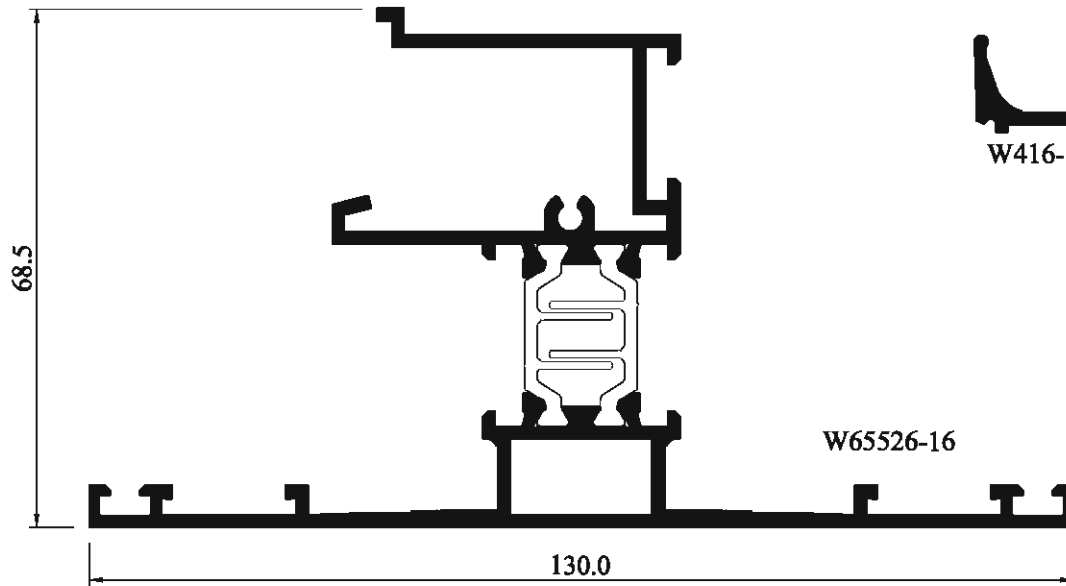
GİZLİ KANAT PROFİLİ
HIDDEN SASH PROFILE



GİZLİ KANATTA SABİT CAM ADAPTÖRÜ
FIX GLASS ADAPTOR FOR HIDDEN SASH



GİZLİ KANAT ÇİFT KANAT ADAPTÖRÜ
ADJOINING SASH ADAPTER FOR HIDDEN SASH



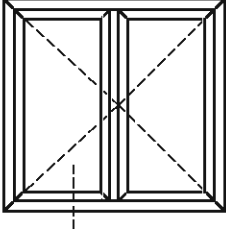
GİZLİ KANAT İÇİN CAM ÇITASI
GLASS HOLDER FOR HIDDEN SASH



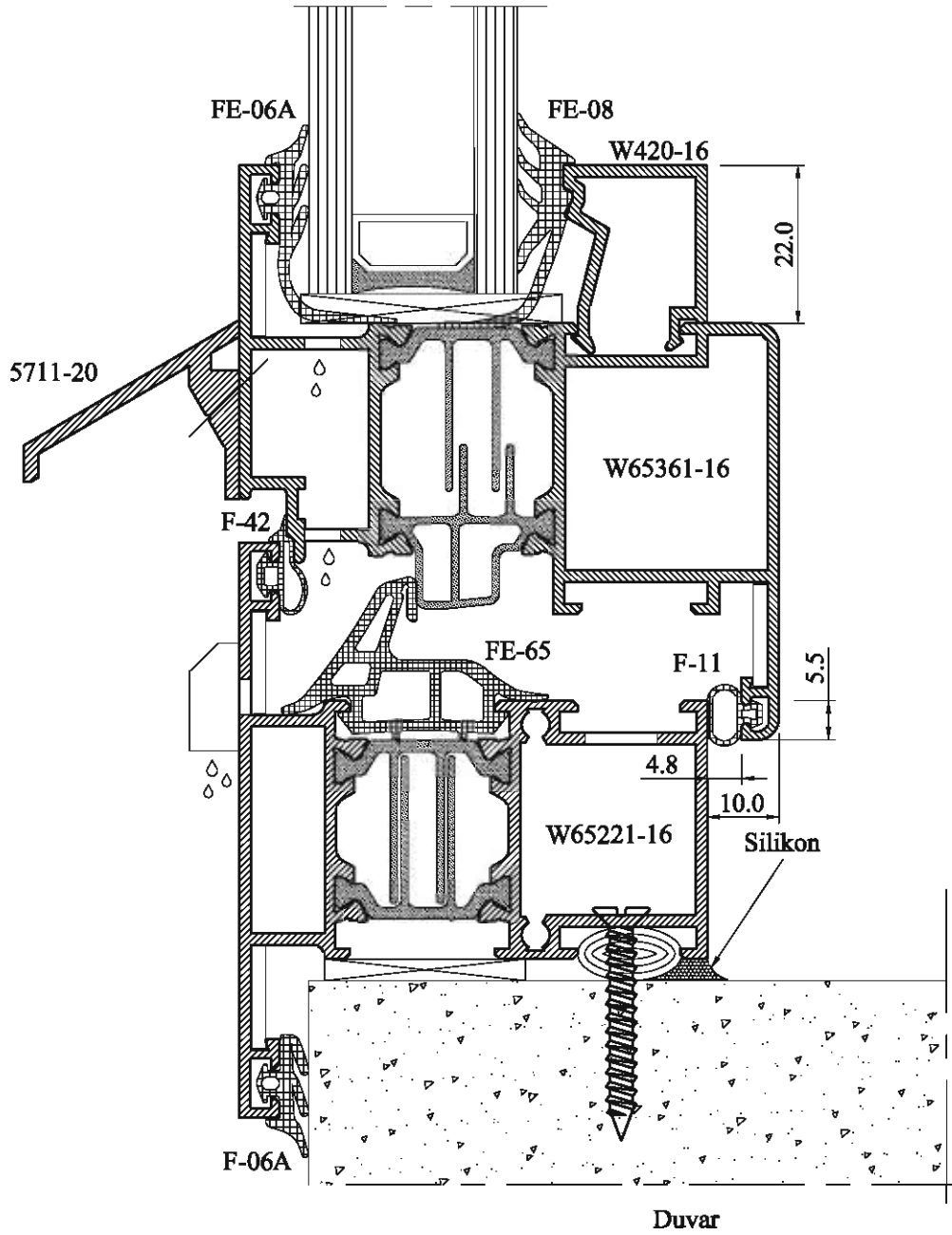
PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I x	I y
W65326-16	1.475	-	T851-280 / 22.7	-	-
W416-15	0.142	-	-	-	-
W546-16	0.614	-	-	-	-
W65526-16	1.915	-	-	-	-

A diagram of a square window frame. It features a central vertical mullion and two diagonal bracing lines forming an 'X' shape. A horizontal dashed line extends from the left side of the frame.

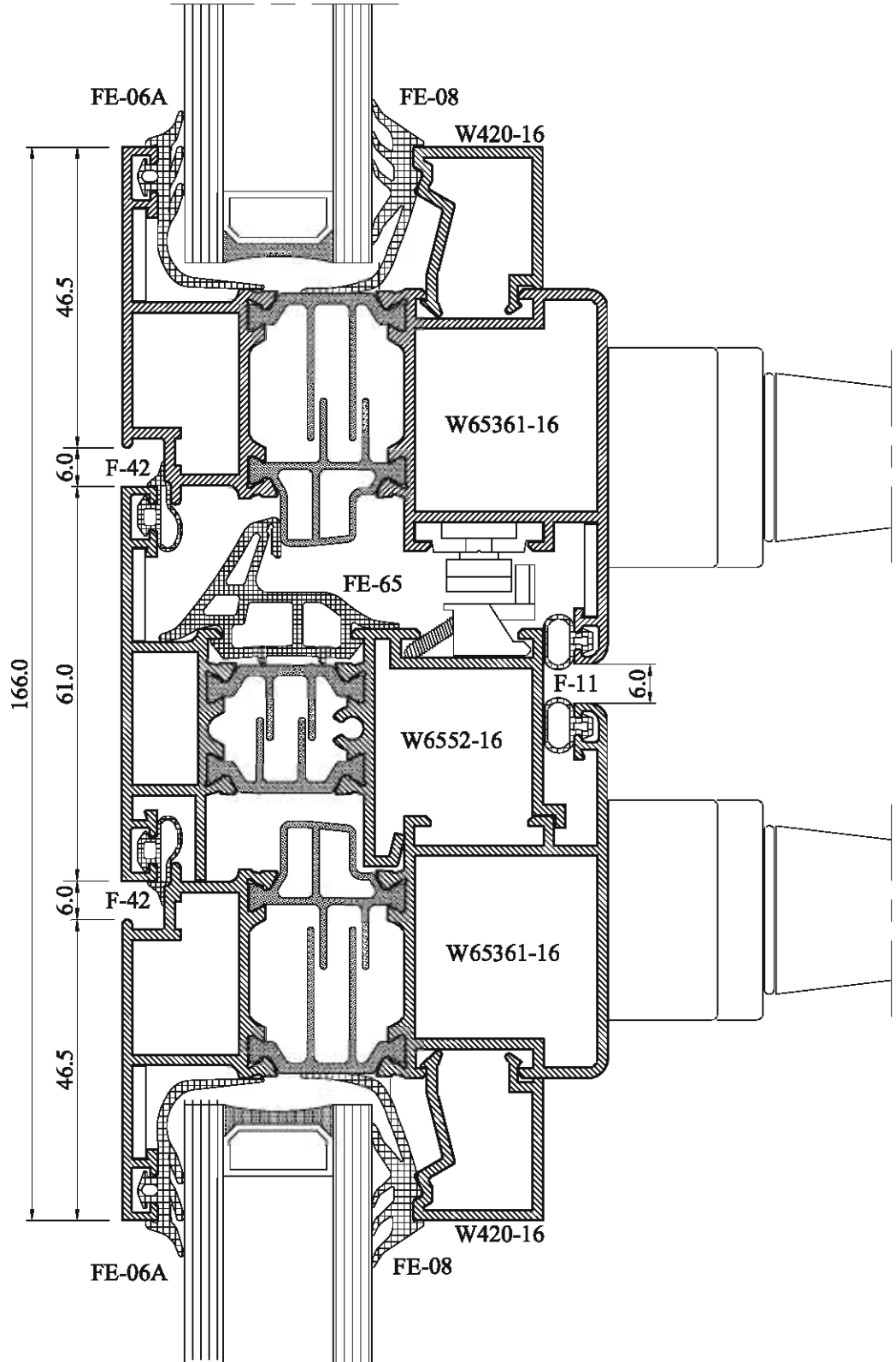
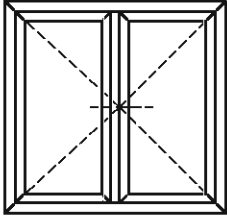




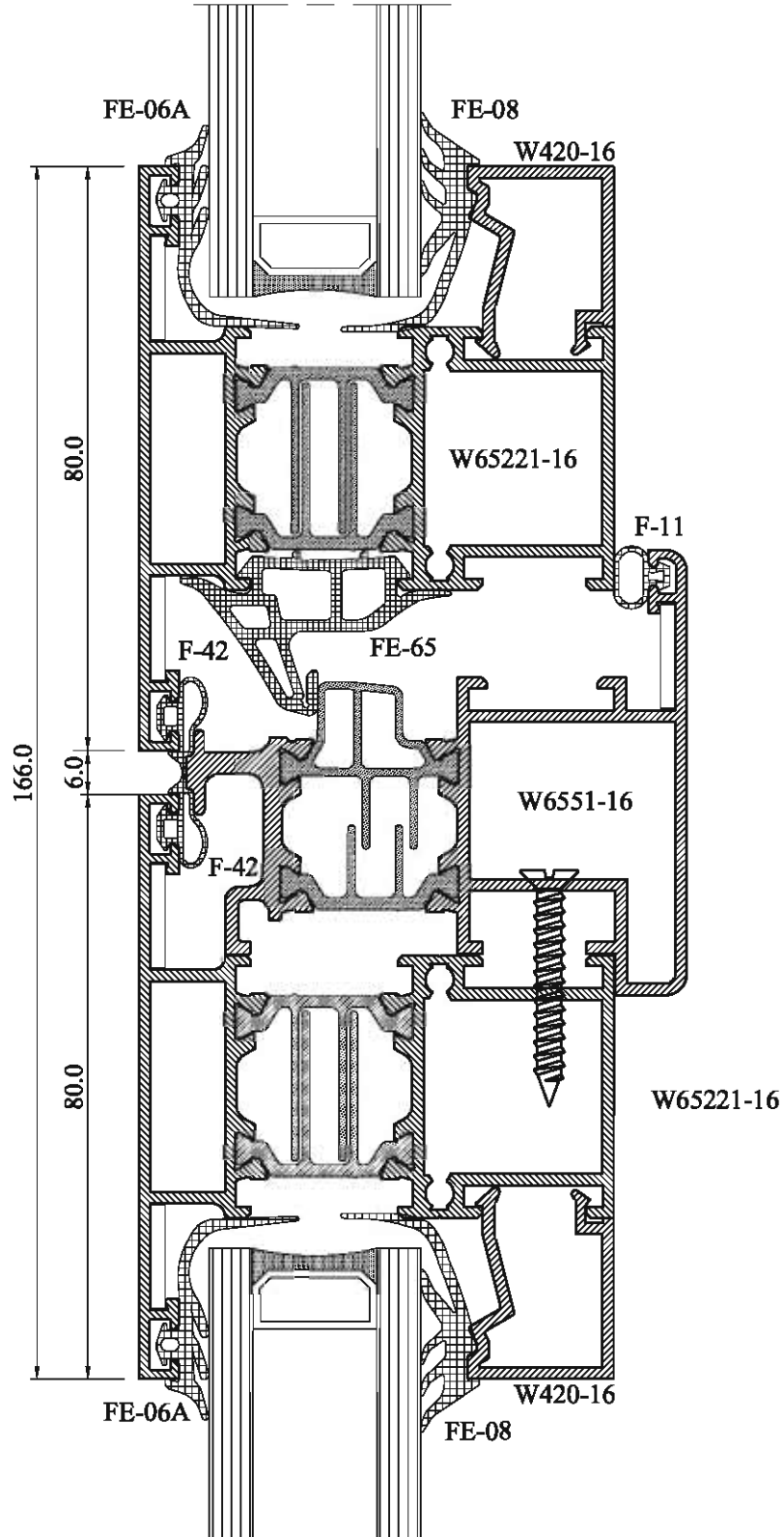
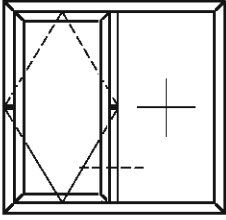
**İçe Açılır Çift Kanat Pencere
Alt Duvar Bitiş Detayı**



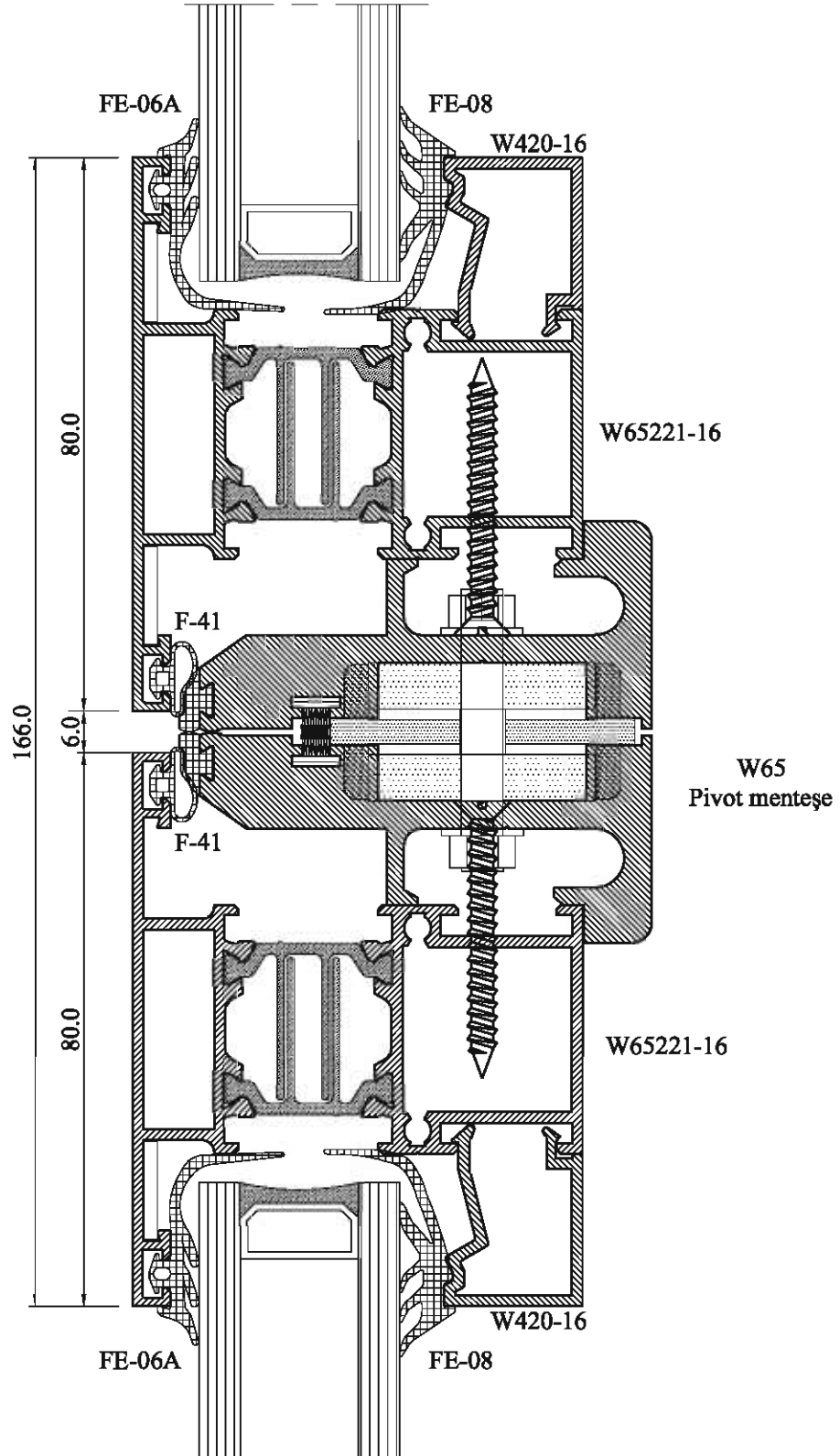
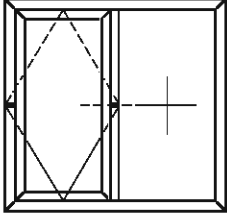
İçe Açılır Çift Kanat Pencere
Orta Birleşim Detayı



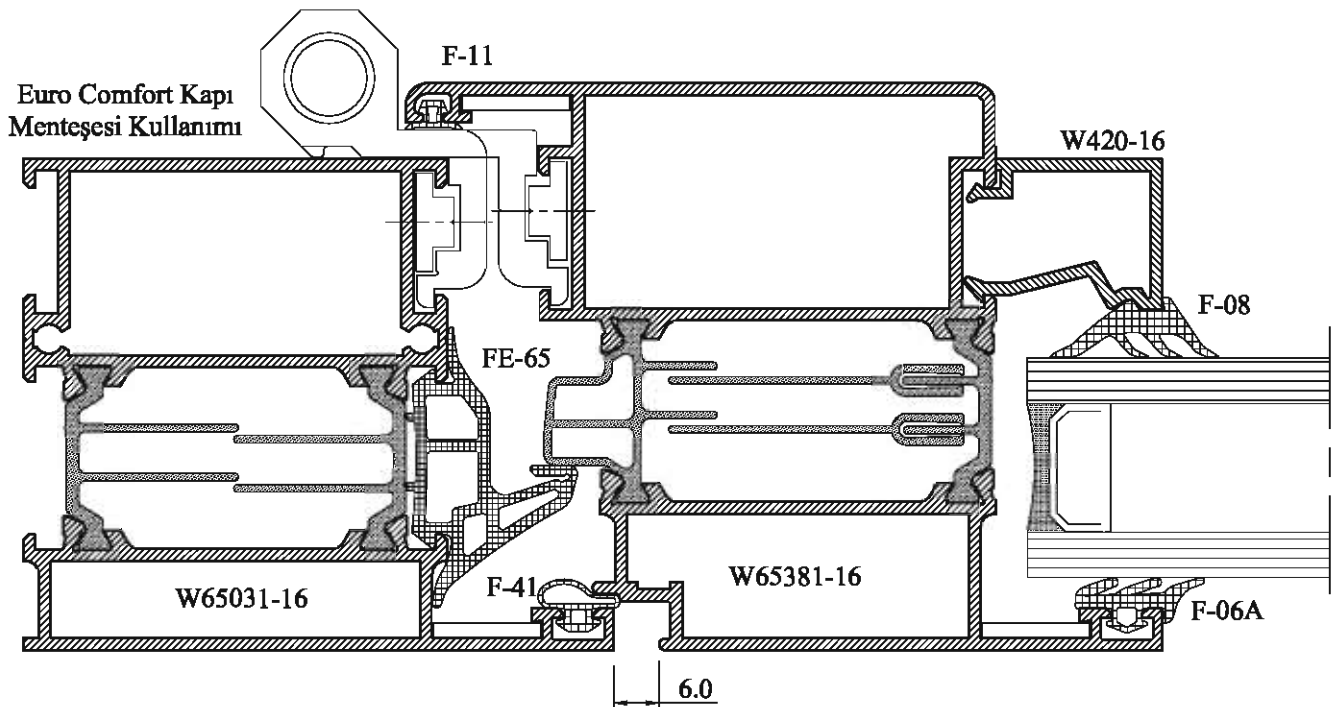
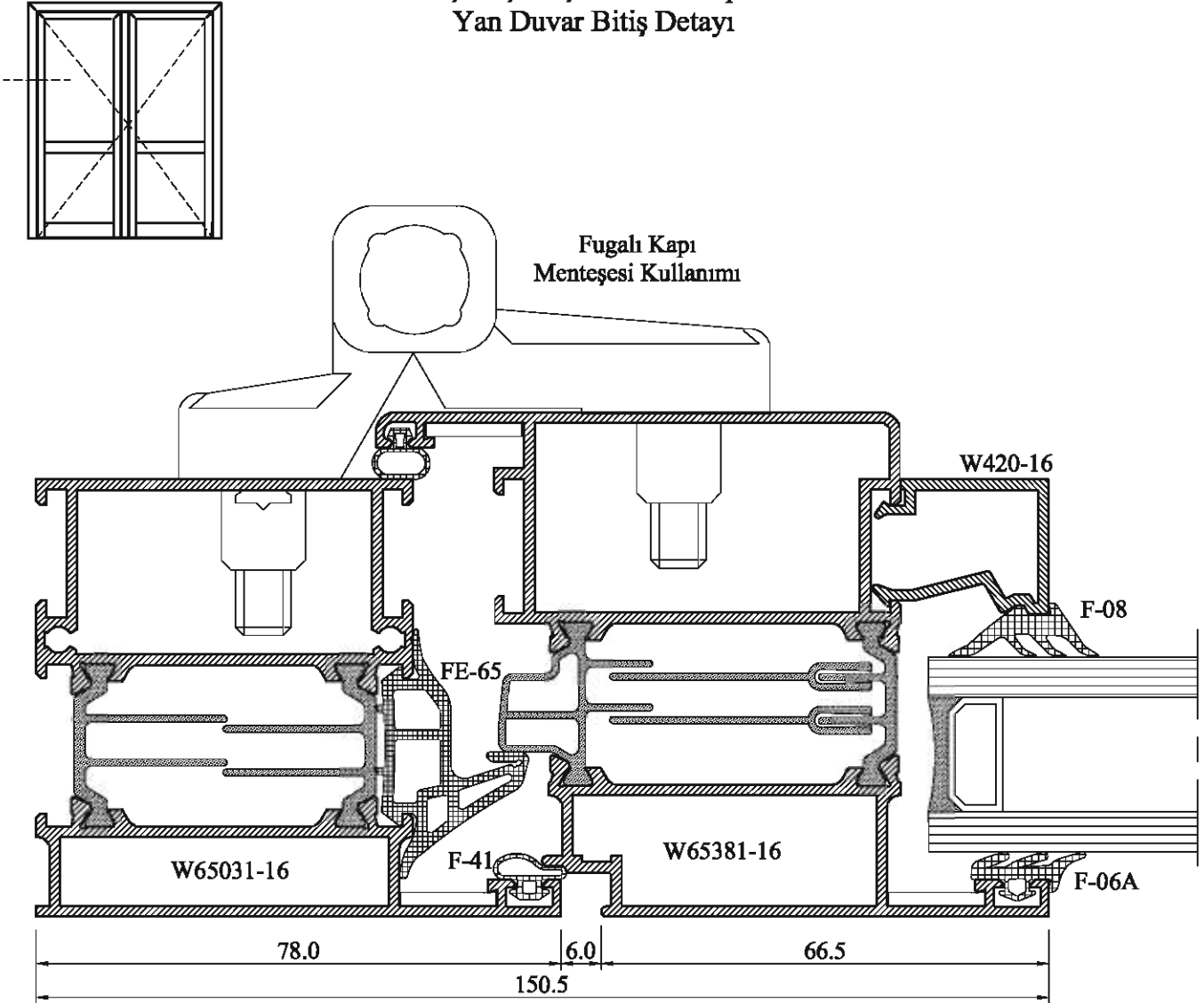
Pivot Açılım Adaptör Detayı



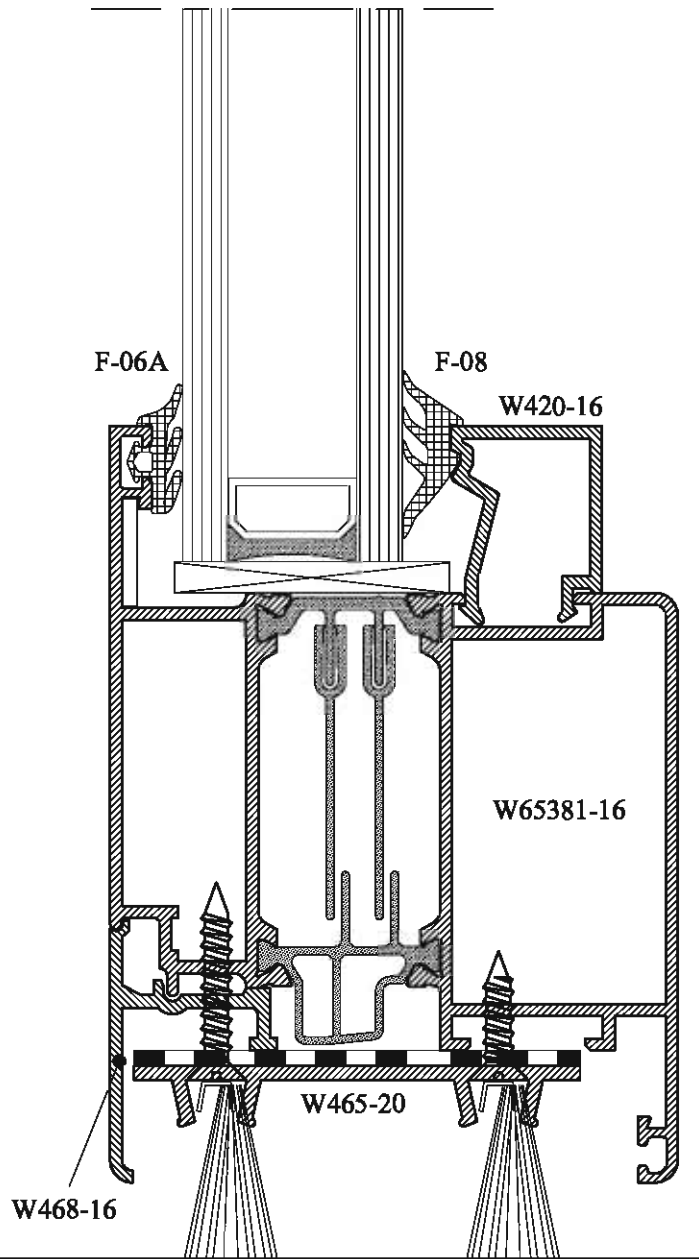
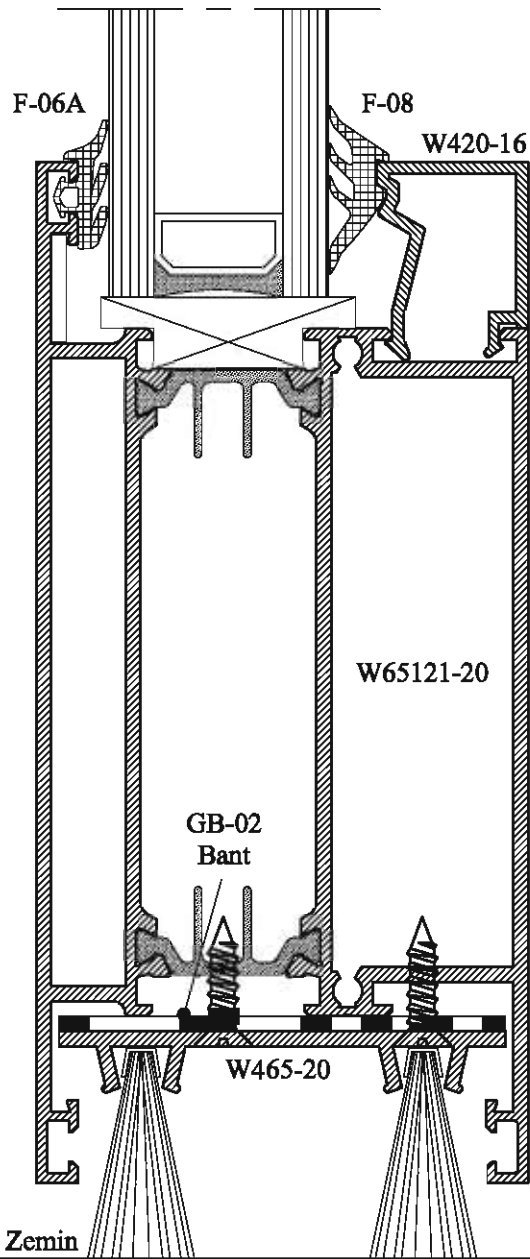
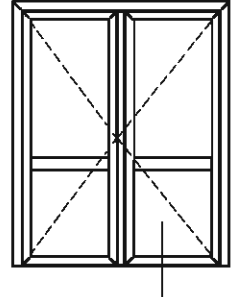
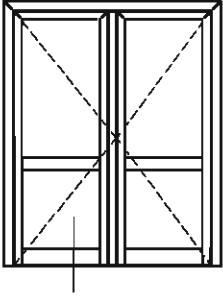
Pivot Açılım Menteşe Detayı

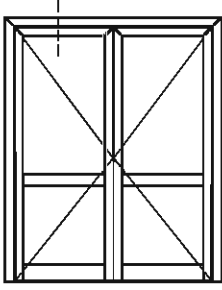


İçe Açılır Çift Kanat Kapı
Yan Duvar Bitiş Detayı

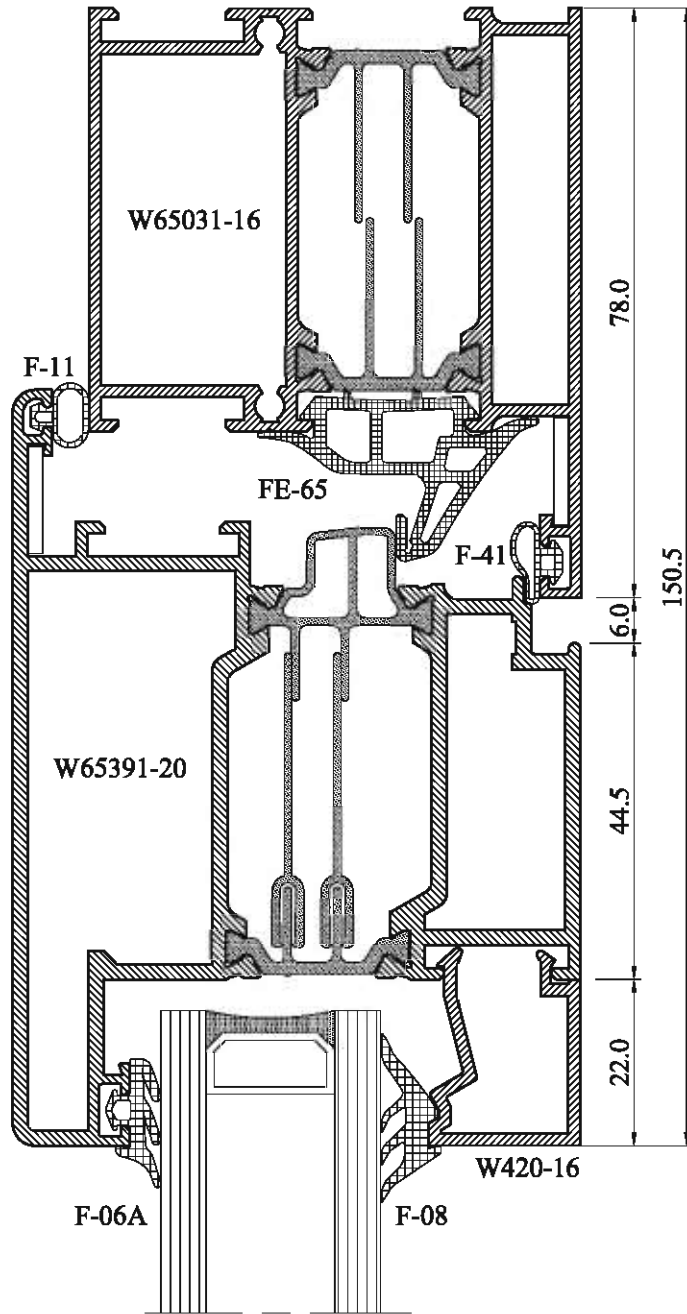


İçe Açılır Çift Kanat Kapı
Etek Detayı Alternatifleri

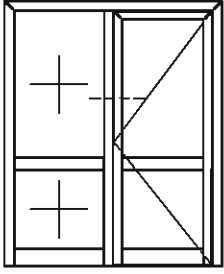




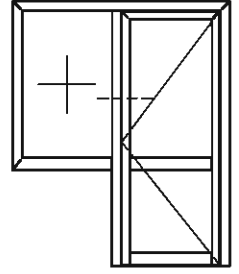
Dışa Açılır Çift Kanat Kapı
Üst Duvar Bitiş Detayı



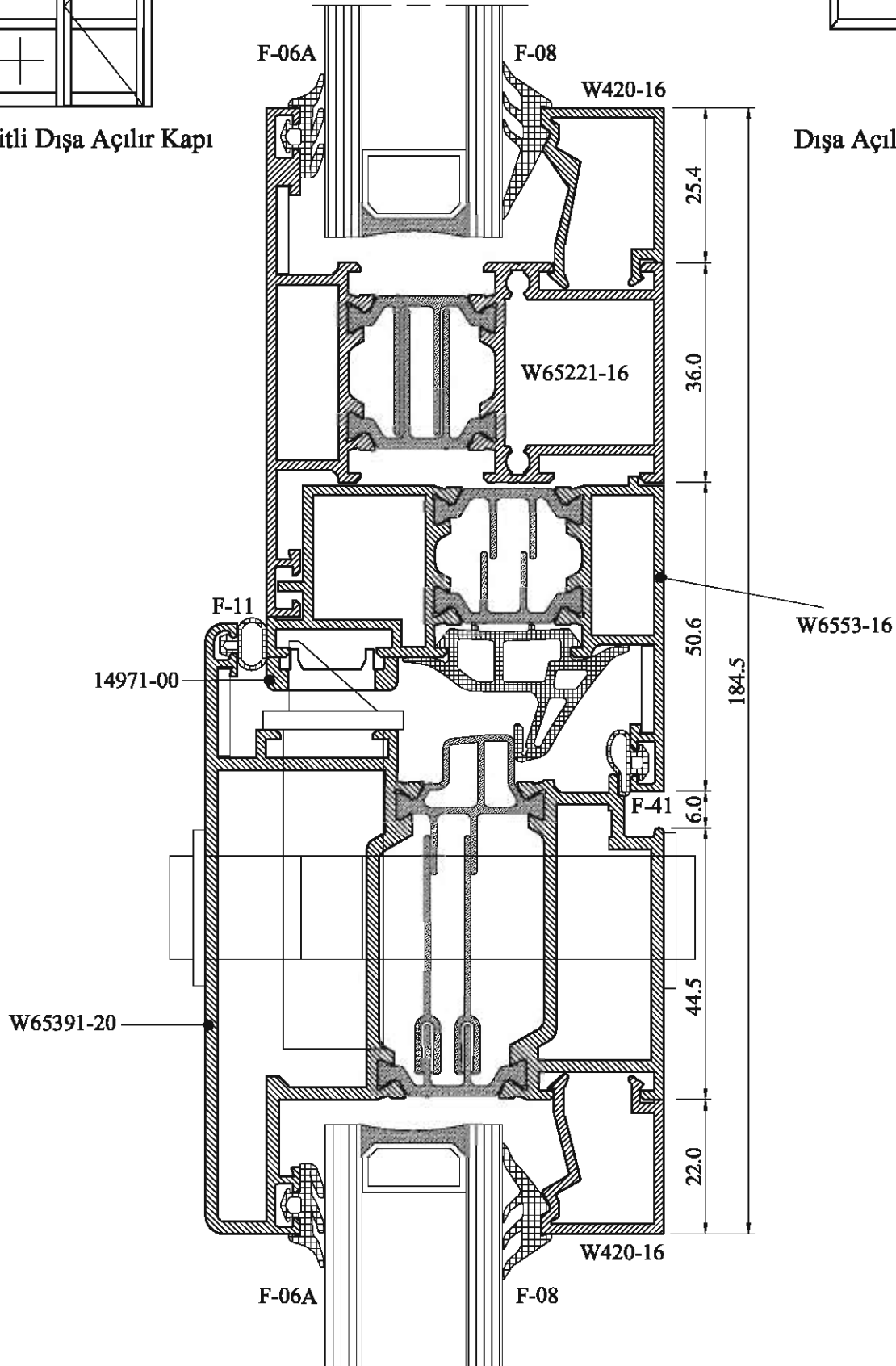
Sabit ve Açılır Kanat Birleşim Detayı

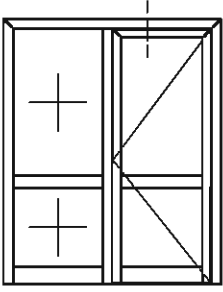


Sabitli Dışa Açılır Kapı



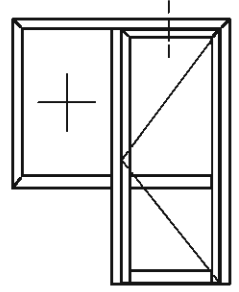
Dışa Açılır Topal Kapı



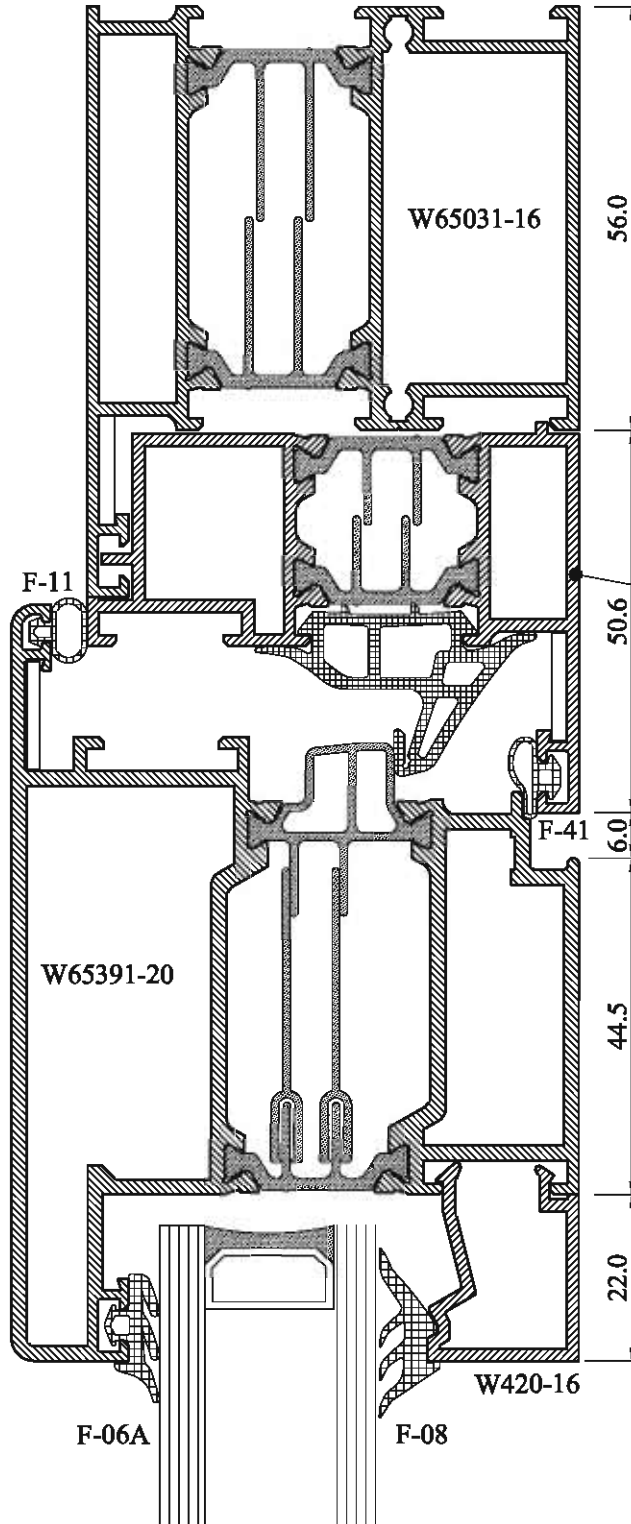


Sabitli Dışa Açılır Kapı

Sabit ve Açılır Kanat Birleşim Detayı

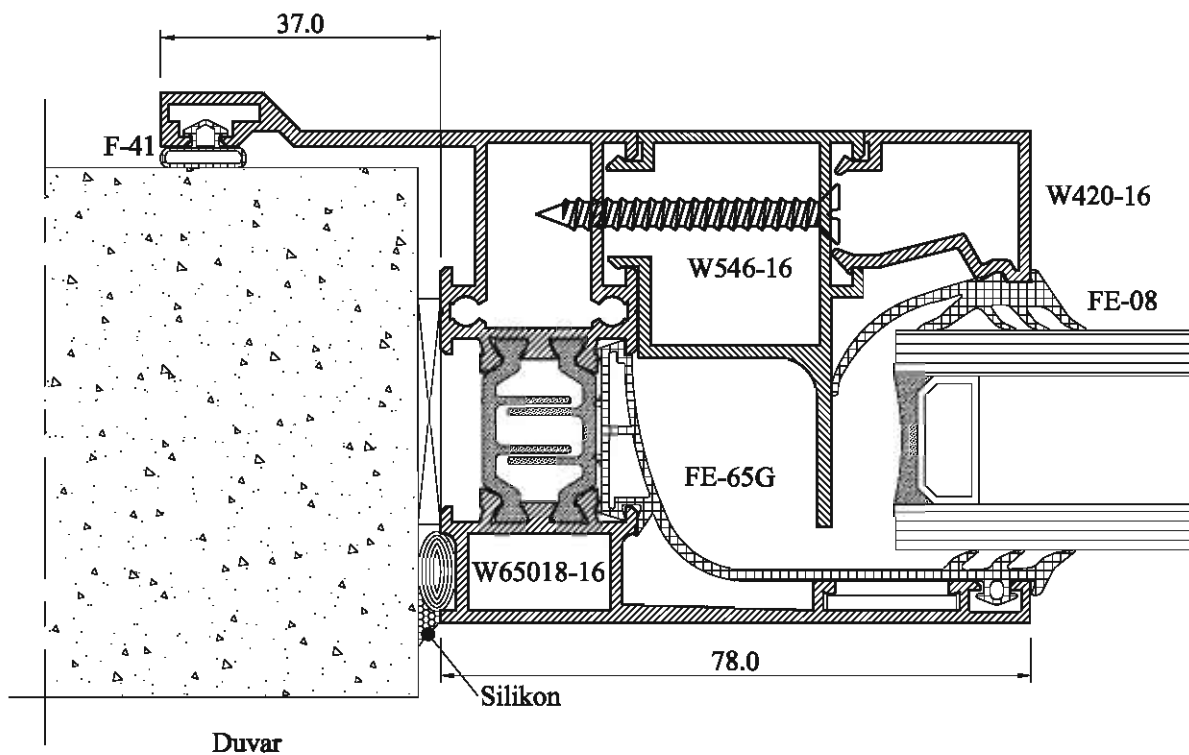
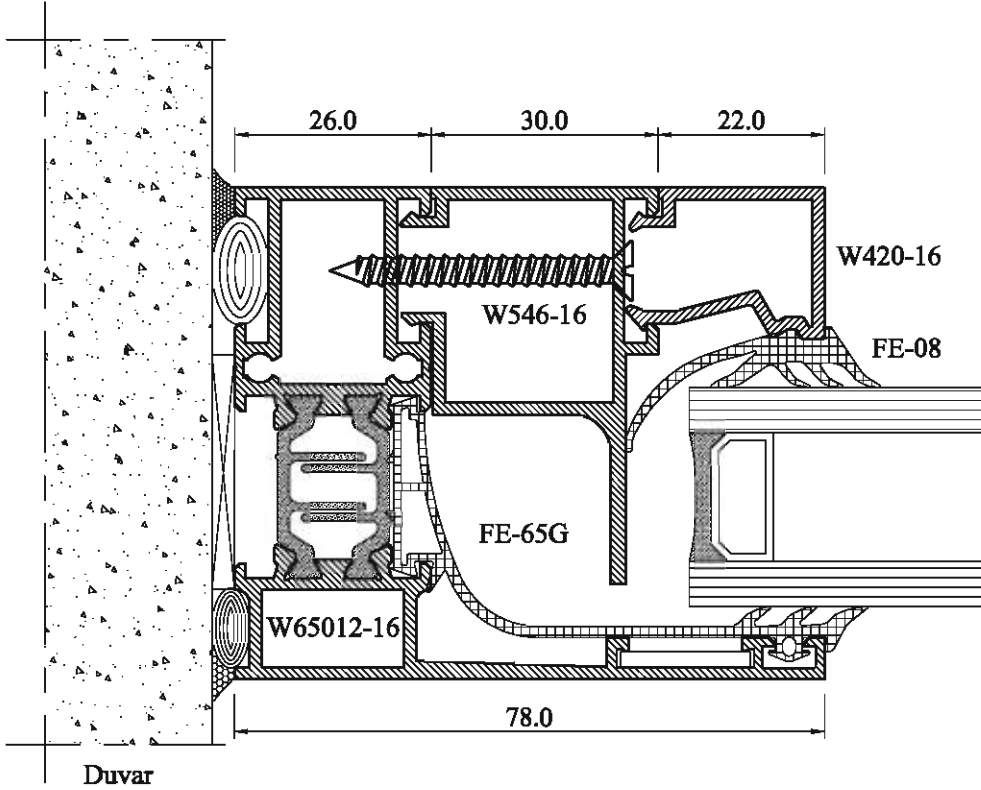
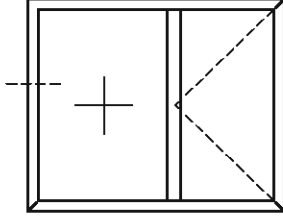


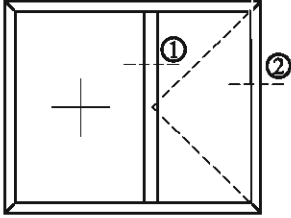
Dışa Açılır Topal Kapı



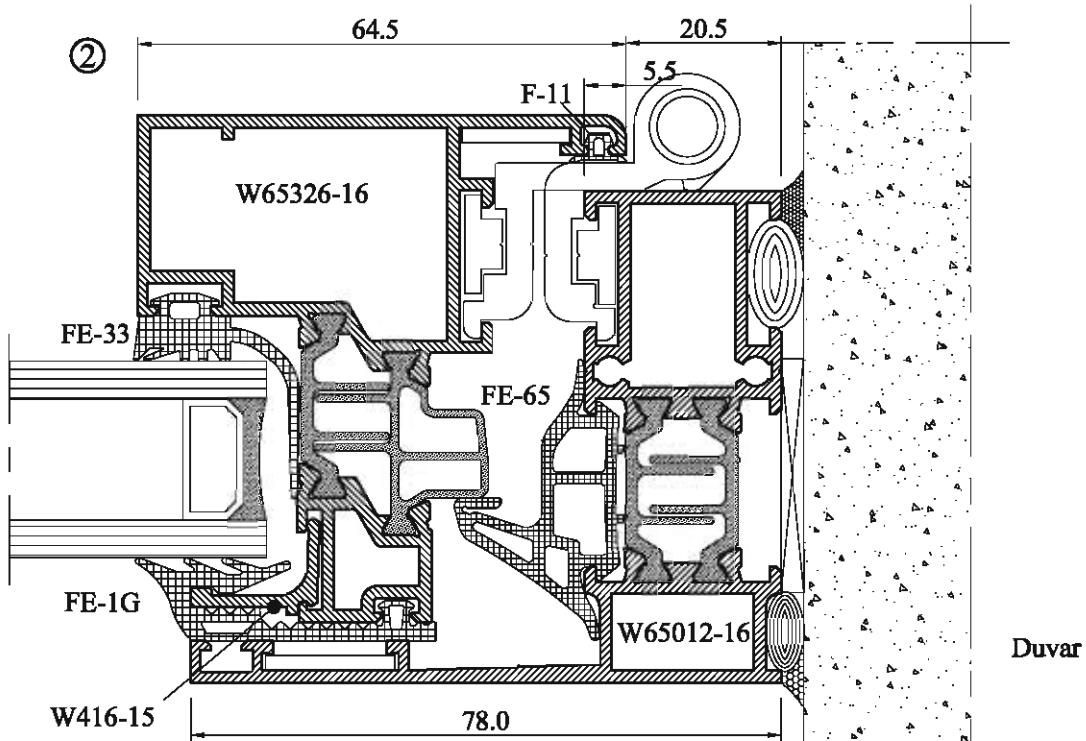
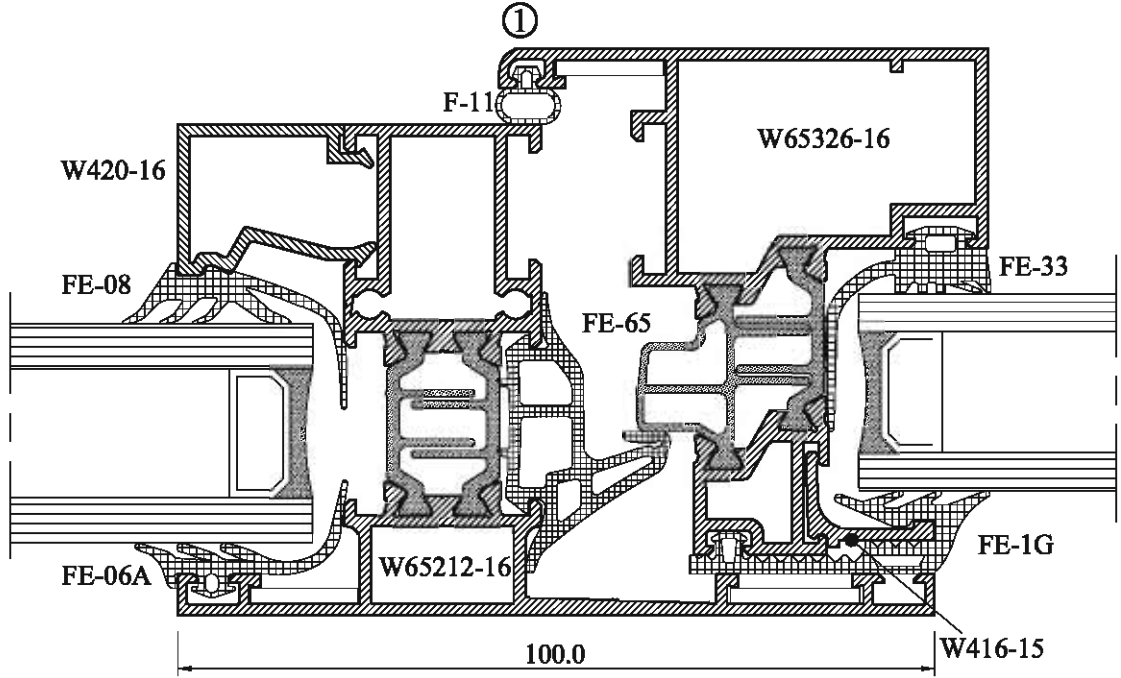
W6553-16

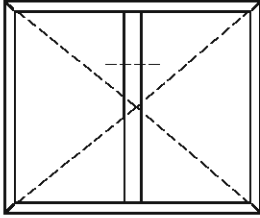
- 1)- Gizli Kanat Sabit - Yan Duvar Birleşim Detayı (Düz Kasa İle)
2)- Gizli Kanat Sabit - Yan Duvar Birleşim Detayı (Pervazlı Kasa İle)



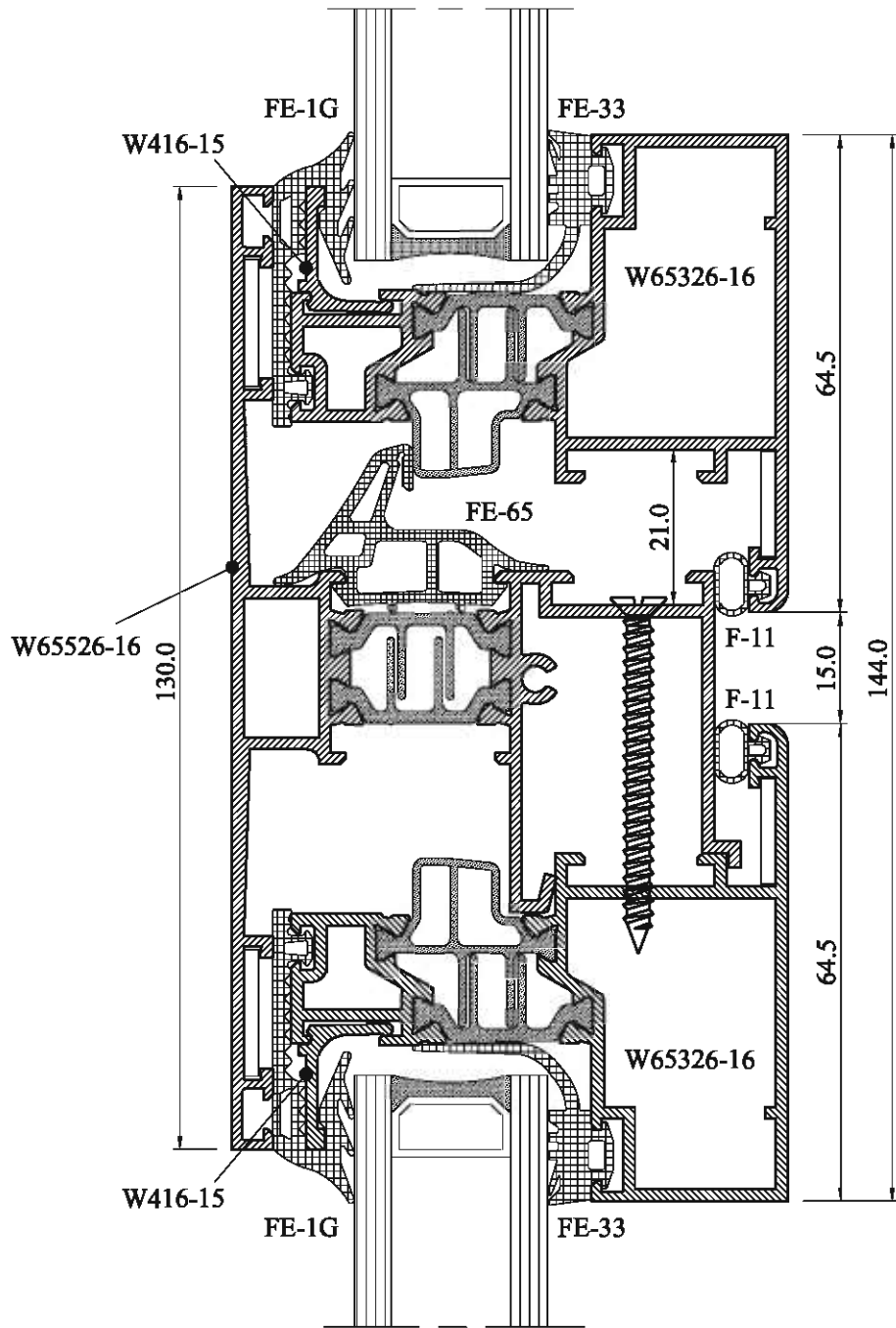


- 1)- Gizli Kanat Sabit ve Açılır Kanat Birleşim Detayı
2)- Gizli Kanat Açılır Kanat - Duvar Birleşim Detayı

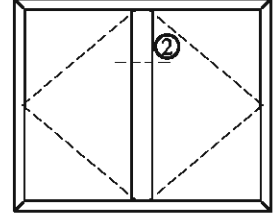
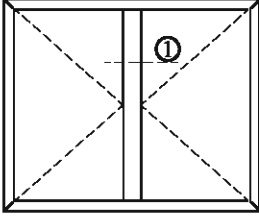




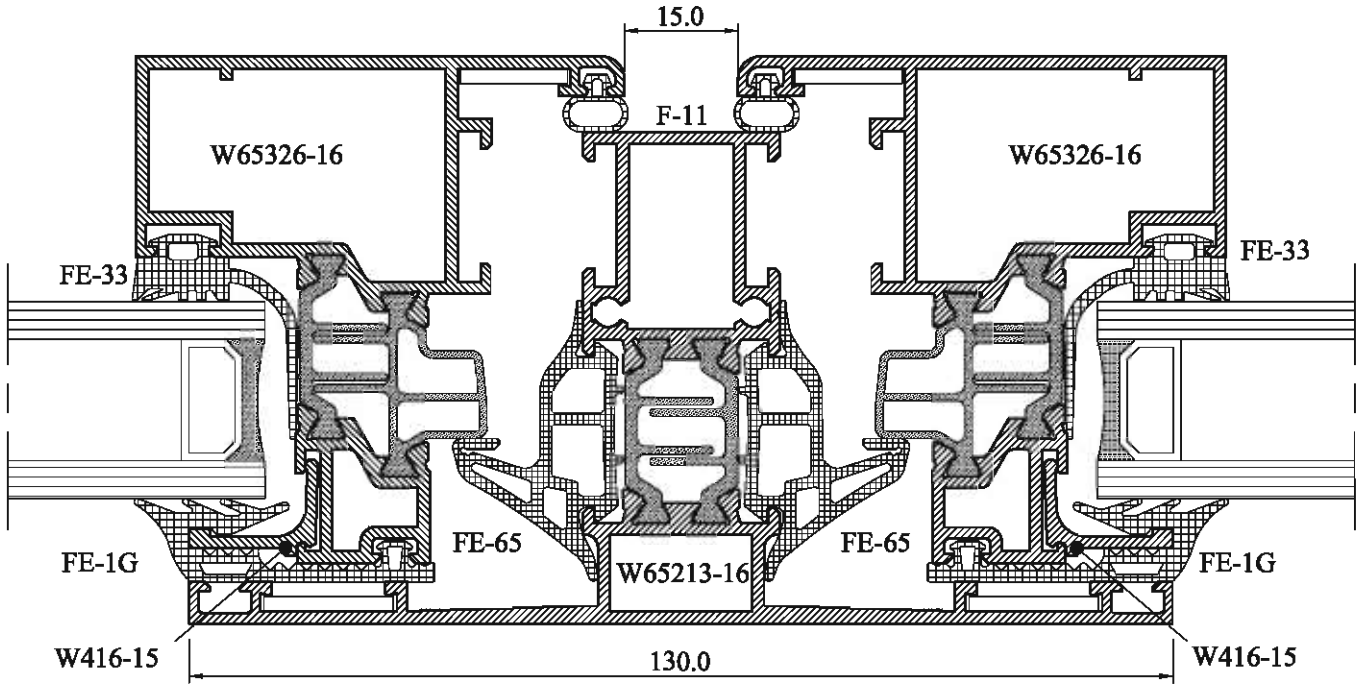
Gizli Kanat Orta Kayıtsız Çift Kanat Pencere
Orta Birleşim Detayı



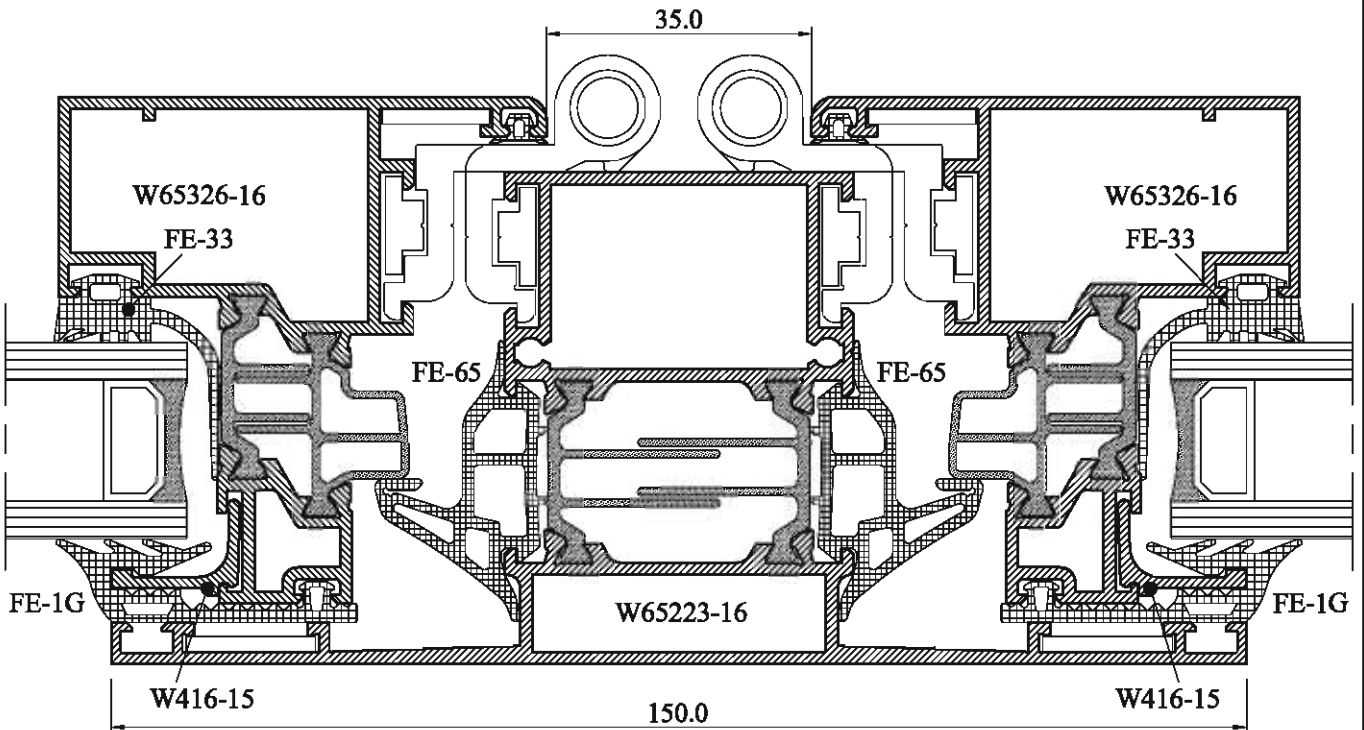
Gizli Kanat Orta Kayıtlı Çift Kanat
Pencere Orta Birleşim Detayı



1)- Menteşe Kasalarda Dar Orta Kayıtlı Çözüm



2)- Menteşe Orta Kayıtlı Geniş Orta Kayıtlı Çözüm



Gizli Kanat Vasistas Açılım

