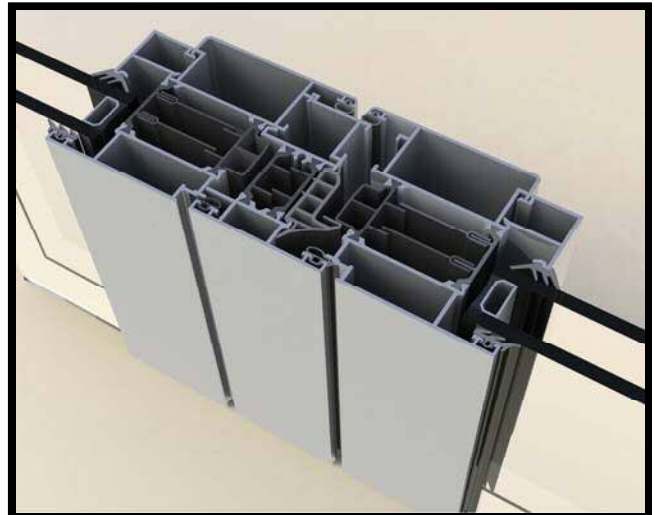
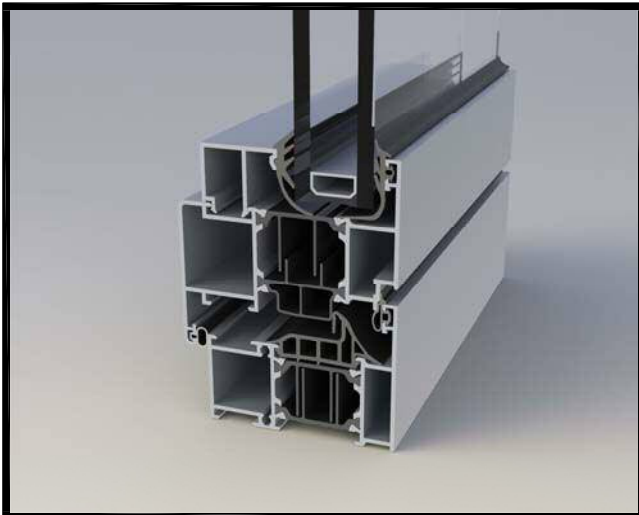
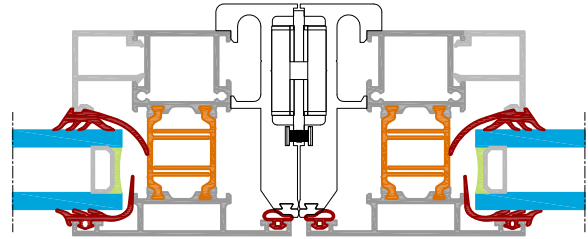
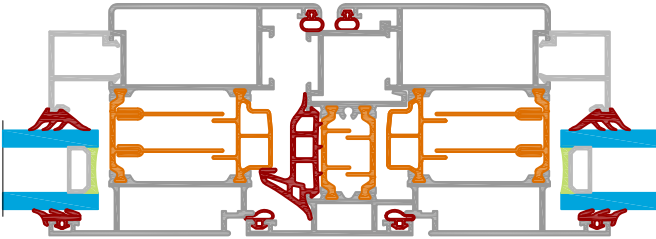
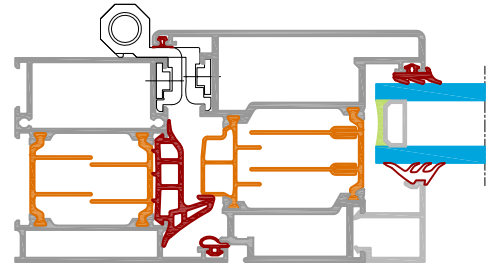
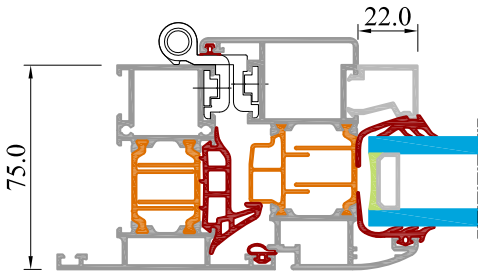
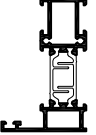
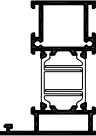
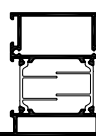
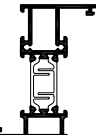
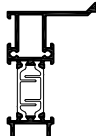
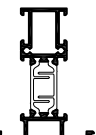
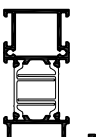
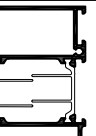
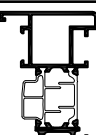
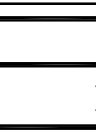
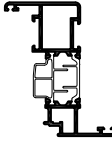
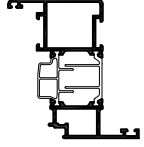
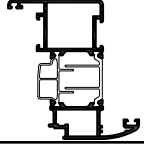
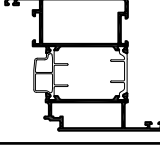
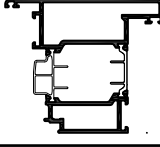
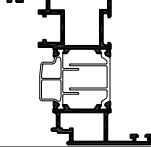
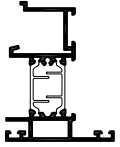
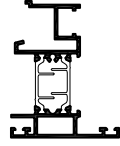


W75**DOĞRAMA SİSTEMİ***Kasa / Kanat derinliği : 75mm / 85mm**Et kalınlığı : 1.6mm ve 2.0mm**Isı yalıtımlı : 34mm**Euro normlarında aksesuar kanalı*

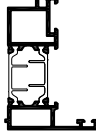
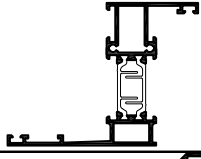
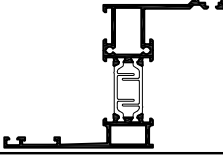
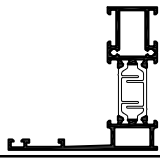
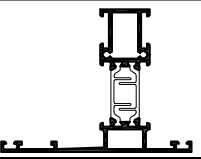
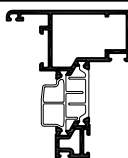
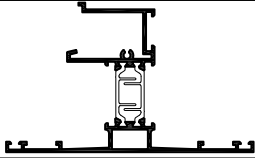
W75 Profil Endeksi

Açıklamalar	Profil Resmi	Profil Kodu	Ağırlık Kg/m	I _x	I _y	Sayfa No
Kasa (Genişlik 48mm) <i>Frame (Width 48mm)</i>		W75011-16	1.386 Kg/m	33.34	6.19	50
		W75011-20	1.520 Kg/m	37.83	6.52	50
Kasa (Genişlik 58mm) <i>Frame (Width 58mm)</i>		W75021-16	1.641 Kg/m	39.22	12.89	50
		W75021-20	1.816 Kg/m	44.99	13.70	50
Kasa (Genişlik 78mm) <i>Frame (Width 78mm)</i>		W75031-16	1.988 Kg/m	50.22	37.62	50
		W75031-20	2.250 Kg/m	58.60	40.46	50
Pervazlı Kasa (Genişlik 70mm) <i>Frame (Width 70mm)</i>		W75015-16	1.512 Kg/m	40.29	9.78	51
Pervazlı Kasa (Genişlik 85mm) <i>Frame (Width 85mm)</i>		W75017-16	1.644 Kg/m	48.35	18.02	51
Orta Kayıt (Genişlik 70mm) <i>Transom - Mullion Profile (Width 70mm)</i>		W75211-16	1.519 Kg/m	37.79	9.83	52
		W75211-20	1.666 Kg/m	42.73	10.33	52
Orta Kayıt (Genişlik 80mm) <i>Transom - Mullion Profile (Width 80mm)</i>		W75221-16	1.774 Kg/m	43.72	17.89	52
		W75221-20	1.962 Kg/m	49.94	18.99	52
Orta Kayıt (Genişlik 100mm) <i>Transom - Mullion Profile (Width 100mm)</i>		W75231-16	2.121 Kg/m	54.80	46.11	52
		W75231-20	2.396 Kg/m	63.64	49.52	52
Pivot Adaptörü <i>Pivot Adapter</i>		W7551-16	1.637 Kg/m	-	-	52
Orta Kayıt (Genişlik 135mm) <i>Transom - Mullion Profile (Width 135mm)</i>		W75241-20	3.067 Kg/m	86.25	145.90	53
Etek (Genişlik 135mm) <i>Kickplate Profile (Width 135mm)</i>		W75121-20	3.209 Kg/m	-	-	53

W75 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	-	-	53
Etek Fırça Profili <i>Kickplate Profile</i>		W468-16	0.295 Kg/m	-	-	53
Kanat Profili (Genişlik 70mm) <i>Sash Profile (Width 70mm)</i>		W75351-16	1.621 Kg/m	-	-	54
		W75351-20	1.821 Kg/m	-	-	54
Kanat Profili (Genişlik 80mm) <i>Sash Profile (Width 80mm)</i>		W75361-16	1.843 Kg/m	-	-	54
		W75361-20	2.078 Kg/m	-	-	54
Oval Kanat Profili (Genişlik 80mm) <i>Sash Profile (Width 80mm)</i>		W75363-16	1.885 Kg/m	-	-	54
Kanat Profili (Genişlik 100mm) <i>Sash Profile (Width 100mm)</i>		W75381-16	2.174 Kg/m	-	-	54
		W75381-20	2.504 Kg/m	-	-	54
Dışa Açılır Kapı Kanadı (Genişlik 100mm) <i>Door Sash Profile Opening Outside (Width 100mm)</i>		W75391-20	2.667 Kg/m	-	-	55
Kanat Profili (Genişlik 80mm) <i>Sash Profile (Width 80mm)</i>		W75362-16	1.929 Kg/m	-	-	55
Damlalık Profili <i>Windowsill Profile</i>		5711-20	0.404 Kg/m	-	-	55
Çift Kanat Adaptörü <i>Adjoining Sash Adapter</i>		W7552-16	1.528 Kg/m	-	-	56
Çift Kanat Adaptörü <i>Adjoining Sash Adapter</i>		W75521-16	1.564 Kg/m	-	-	56

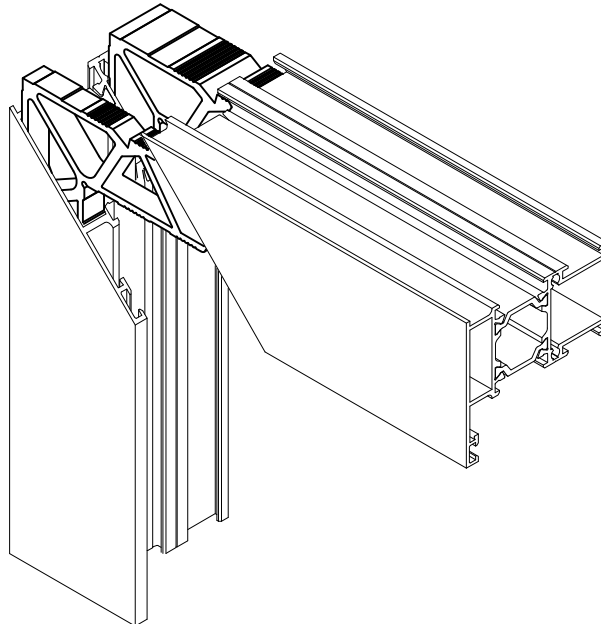
W75 Profil Endeksi

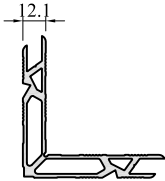
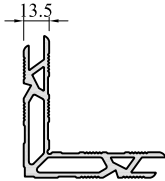
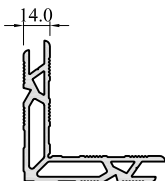
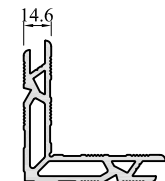
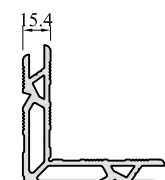
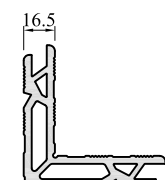
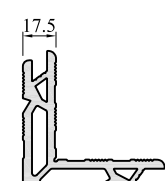
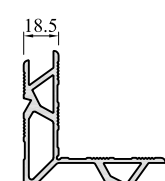
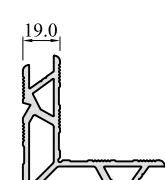
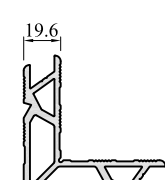
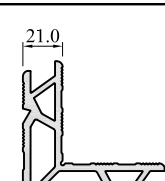
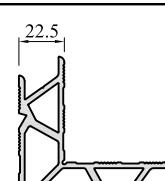
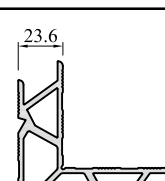
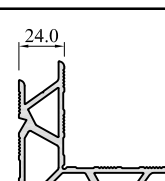
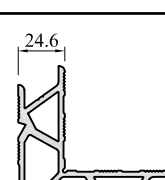
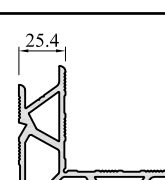
Açıklamalar	Profil Resmi	Profil Kodu	Ağırlık Kg/m	Ix	Iy	Sayfa No
Dışa Açılır Kapı Adaptörü <i>Outside Opening Door Adapter</i>		W7553-16	1.374 Kg/m	31.60	8.37	56
Gizli Kanat Pervazlı Kasa <i>Frame Profile For Hidden Sash</i>		W75016-16	1.690 Kg/m	47.52	25.75	57
Gizli Kanat Pervazlı Kasa <i>Frame Profile For Hidden Sash</i>		W75018-16	1.822 Kg/m	56.87	35.88	57
Gizli Kanat Kasası <i>Frame Profile For Hidden Sash</i>		W75012-16	1.564 Kg/m	39.34	20.85	58
Gizli Kanat Orta Kayıt <i>Transom - Mullion Profile For Hidden Sash</i>		W75212-16	1.697 Kg/m	42.98	25.82	58
Gizli Kanat Profili <i>Hidden Sash Profile</i>		W75326-16	1.538 Kg/m	-	-	59
Gizli Kanat İçin Cam Çıtası <i>Glass Holder For Hidden Sash</i>		W416-15	0.142 Kg/m	-	-	59
Gizli Kanatta Sabit Cam Adaptörü <i>Fix Glass Adapter For Hidden Sash</i>		W546-16	0.592 Kg/m	-	-	59
Gizli Kanatta Çift Kanat Adaptörü <i>Adjoining Sash Adapter For Hidden Sash</i>		W75526-16	1.967 Kg/m	-	-	59

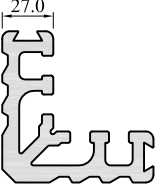
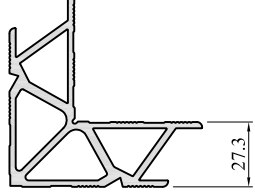
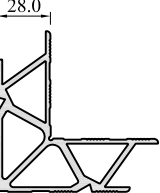
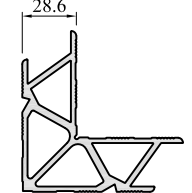
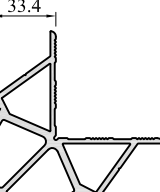
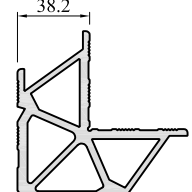
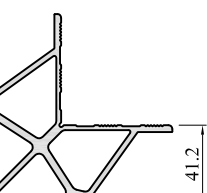
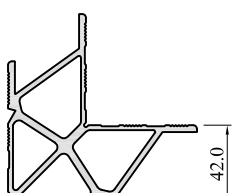
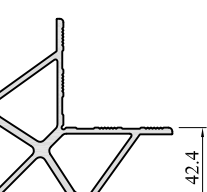
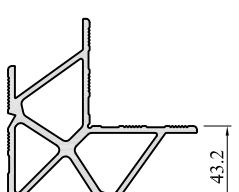
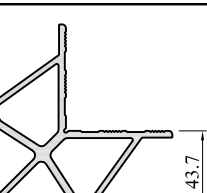
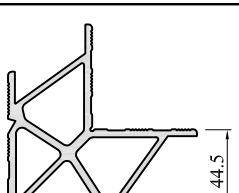
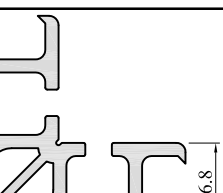
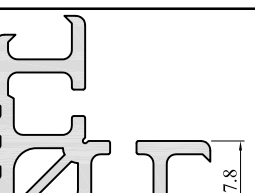
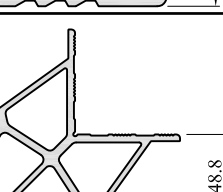
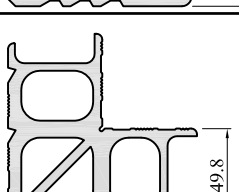
PROFİLLER ve KULLANILAN TAKOZLAR LİSTESİ

Euro Comfort Doğrama sistemlerinin 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, WS65011-20-ÜST ve WS14011-20-ÜST ile de çalışmaktadır.

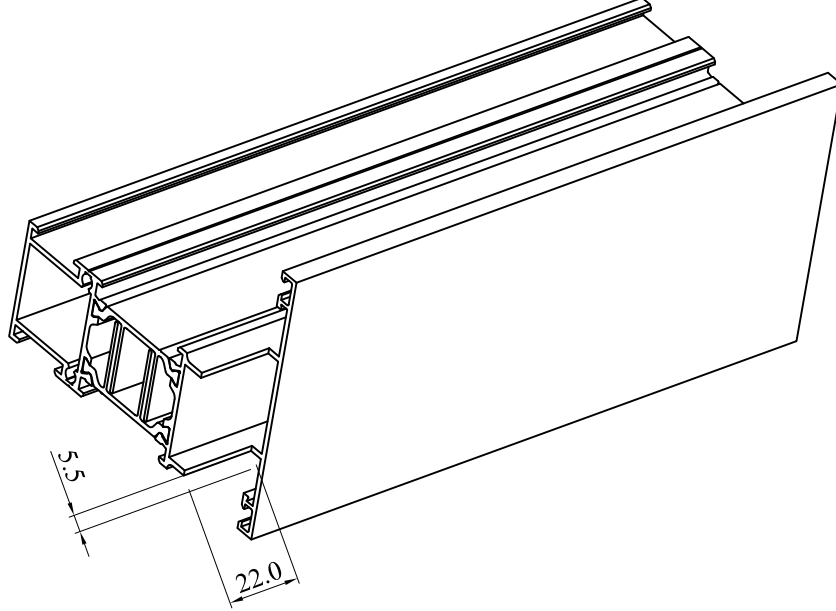
Profil No	A/ Ü	Takoz Numarası / Kesim Ölçüsü (mm)	Profil No	A/ Ü	Takoz Numarası / Kesim Ölçüsü (mm)	Profil No	A/ Ü	Takoz Numarası / Kesim Ölçüsü (mm)
W7553-16	A	T85-225 / 9.7	W75031-16	A	T85-478 / 9.7	W75231-20	A	T85-478 / 8.9
W7553-16	Ü	T851-196 / 17.9	W75031-16	Ü	T851-432 / 23.9	W75231-20	Ü	T851-424 / 23.5
W75011-16	A	T851-185 / 9.7	W75031-20	A	T85-478 / 8.9	W75351-16	A	T851-146 / 8.5
W75011-16	Ü	T851-135 / 23.9	W75031-20	Ü	T851-424 / 23.5	W75351-16	Ü	T851-175 / 27.7
W75011-20	A	T851-175 / 8.9	W75211-16	A	T851-185 / 9.7	W75351-20	A	T851-140 / 8.1
W75011-20	Ü	T851-121 / 23.5	W75211-16	Ü	T851-135 / 23.9	W75351-20	Ü	T851-165 / 26.9
W75012-16	A	T851-185 / 9.7	W75211-20	A	T851-175 / 8.9	W75361-16	A	T851-246 / 8.5
W75012-16	Ü	T851-135 / 23.9	W75211-20	Ü	T851-121 / 23.5	W75361-16	Ü	T851-280 / 27.7
W65015-16	A	T851-185 / 9.7	W75212-16	A	T851-185 / 9.7	W75361-20	A	T851-240 / 8.1
W65015-16	Ü	T851-135 / 23.9	W75212-16	Ü	T851-135 / 23.9	W75361-20	Ü	T85-270 / 26.9
W65016-16	A	T851-185 / 9.7	W65213-16	A	T851-185 / 9.7	W75362-16	A	T851-246 / 8.5
W65016-16	Ü	T851-135 / 23.9	W65213-16	Ü	T851-135 / 23.9	W75362-16	Ü	T851-196 / 27.7
W75017-16	A	T851-185 / 9.7	W75221-16	A	T851-286 / 9.7	W75363-16	A	T851-246 / 8.5
W75017-16	Ü	T851-135 / 23.9	W75221-16	Ü	T851-236 / 23.9	W75363-16	Ü	T851-280 / 27.7
W75018-16	A	T851-185 / 9.7	W75221-20	A	T85-270 / 8.9	W75381-16	A	T851-445 / 8.5
W75018-16	Ü	T851-135 / 23.9	W75221-20	Ü	T85-225 / 23.5	W75381-16	Ü	T85-478 / 27.7
W75021-16	A	T851-286 / 9.7	W65223-16	A	T851-382 / 9.7	W75381-20	A	T851-437 / 8.1
W75021-16	Ü	T851-236 / 23.9	W65223-16	Ü	T851-334 / 23.9	W75381-20	Ü	T85-468 / 26.9
W75021-20	A	T85-270 / 8.9	W75231-16	A	T85-478 / 9.7	W75391-20	A	T851-412 / 8.1
W75021-20	Ü	T85-225 / 23.5	W75231-16	Ü	T851-432 / 23.9	W75391-20	Ü	T85-498 / 23.9



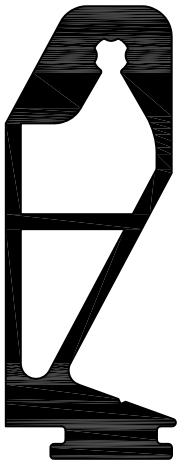
2D Resmi	Özellikleri	2D Resmi	Özellikleri
	T851-121 12.1 mm 1.846 Kg/m		T851-135 13.5 mm 2.256 Kg/m
	T851-140 14.0 mm 2.432 Kg/m		T851-146 14.6 mm 2.633 Kg/m
	T851-154 15.4 mm 2.900 Kg/m		T851-165 16.5 mm 3.261 Kg/m
	T851-175 17.5 mm 3.576 Kg/m		T851-185 18.5 mm 2.512 Kg/m
	T851-190 19.0 mm 2.670 Kg/m		T851-196 19.6 mm 2.859 Kg/m
	T851-210 21.0 mm 3.308 Kg/m		T851-225 22.5 mm 2.850 Kg/m
	T851-236 23.6 mm 2.897 Kg/m		T851-240 24.0 mm 2.948 Kg/m
	T851-246 24.6 mm 3.140 Kg/m		T851-254 25.4 mm 3.404 Kg/m

2D Resmi	Özellikleri	2D Resmi	Özellikleri
	T85-270 27.0 mm 5.513 Kg/m		T85-273 27.3 mm 3.154 Kg/m
	T851-280 28.0 mm 3.025 Kg/m		T851-286 28.6 mm 3.217 Kg/m
	T851-334 33.4 mm 3.423 Kg/m		T851-382 38.2 mm 4.758 Kg/m
	T851-412 41.2 mm 3.863 Kg/m		T851-420 42.0 mm 4.059 Kg/m
	T851-424 42.4 mm 4.158 Kg/m		T851-432 43.2 mm 4.354 Kg/m
	T851-437 43.7 mm 4.480 Kg/m		T851-445 44.5 mm 4.677 Kg/m
	T85-468 46.8 mm 9.748 Kg/m		T85-478 47.8 mm 9.807 Kg/m
	T85-488 48.8 mm 4.231 Kg/m		T85-498 49.8 mm 8.230 Kg/m

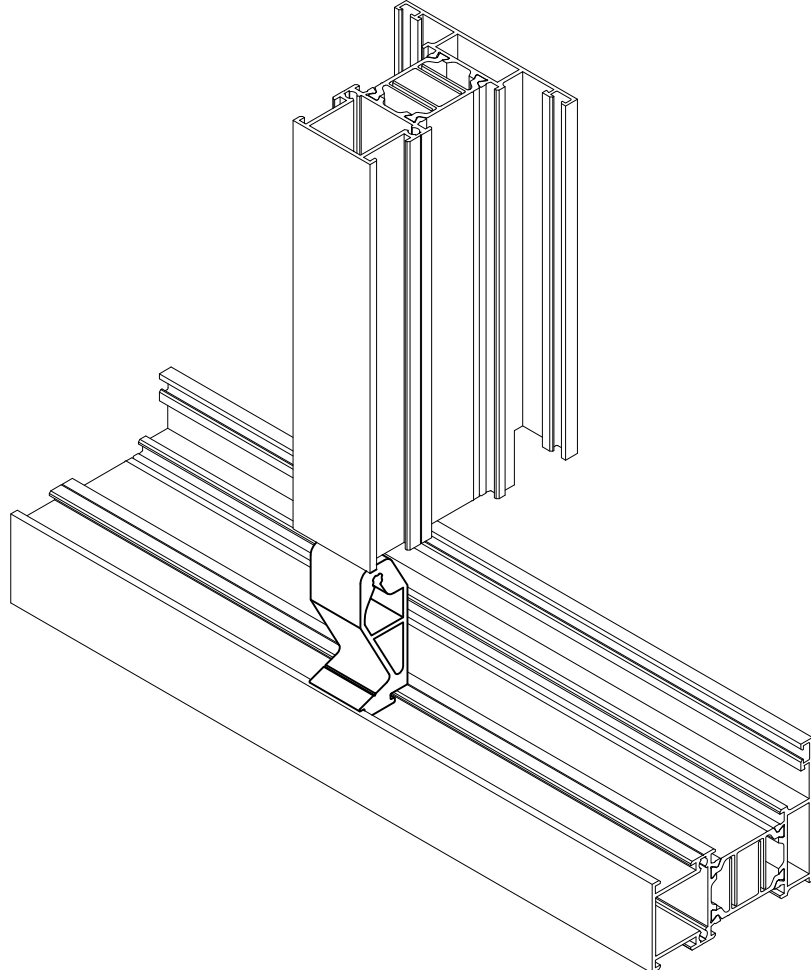
EURO COMFORT SERİLER İÇİN ORTA KAYIT KERTME DETAYI



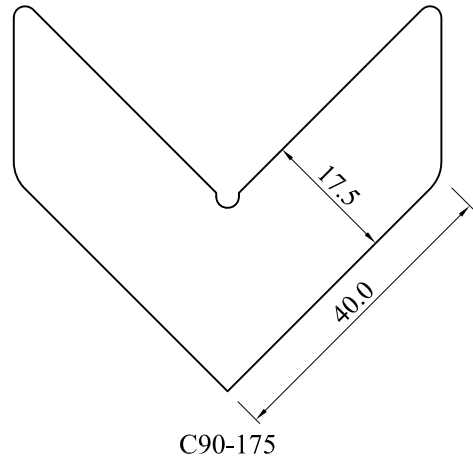
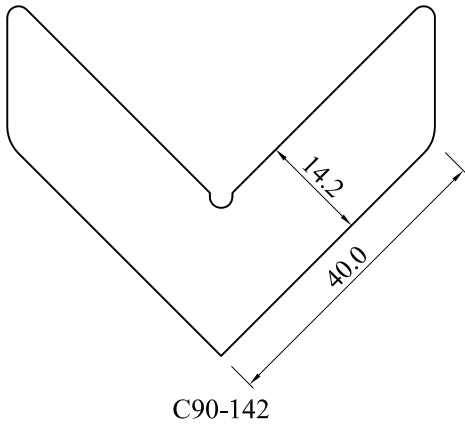
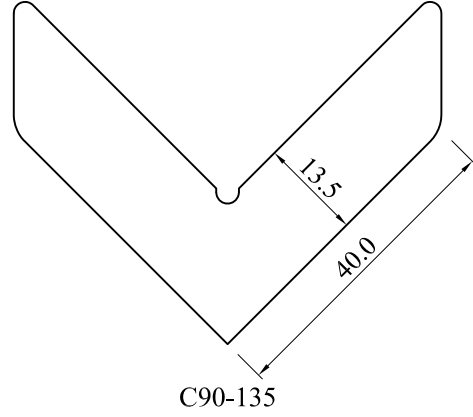
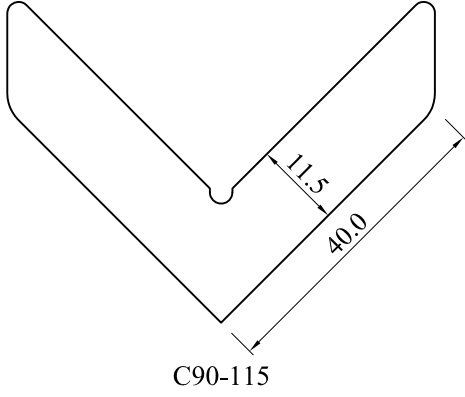
EURO COMFORT SERİLER İÇİN GERDİRME MONTAJ DETAYI



1486-00
1.477 kg/m

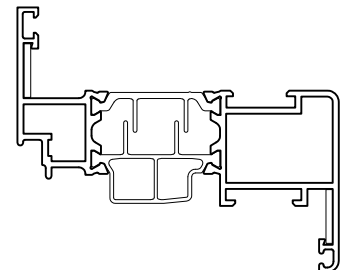
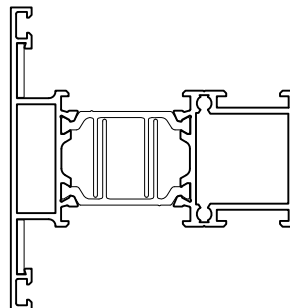
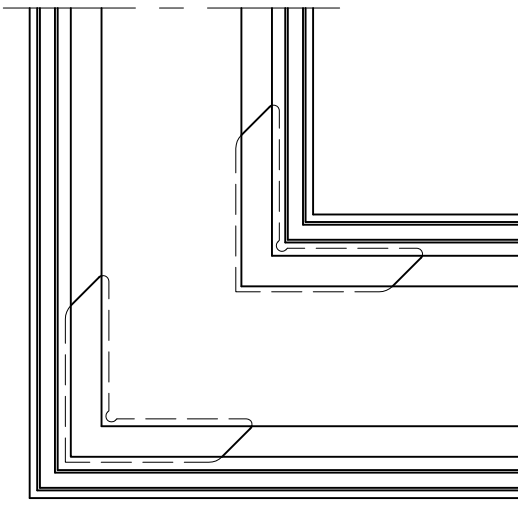


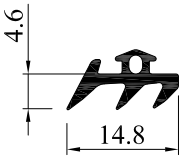
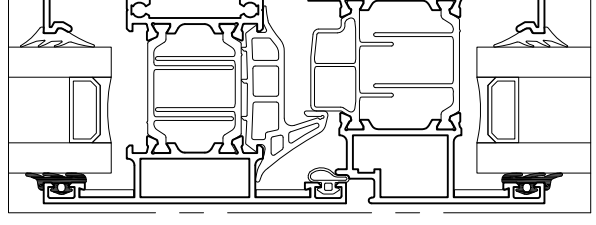
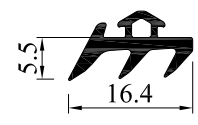
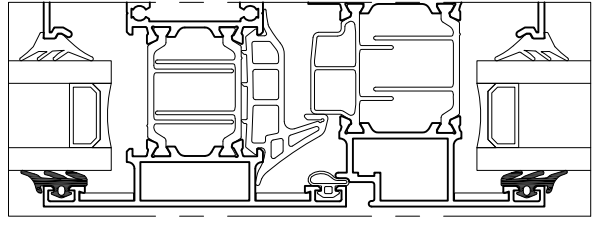
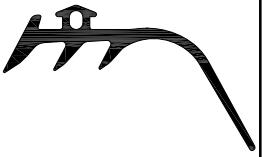
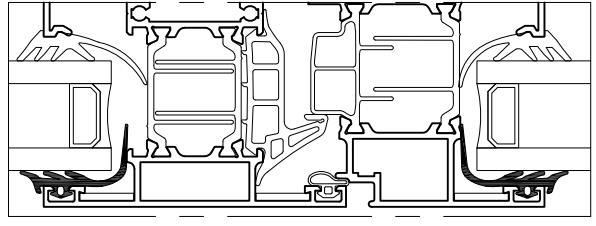
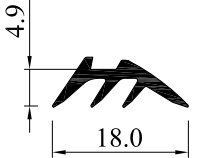
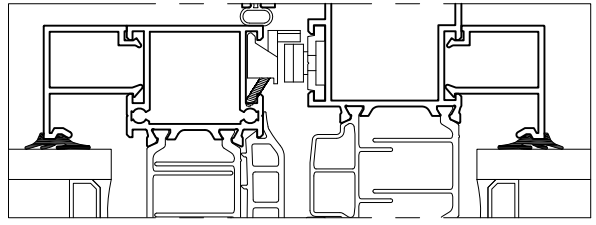
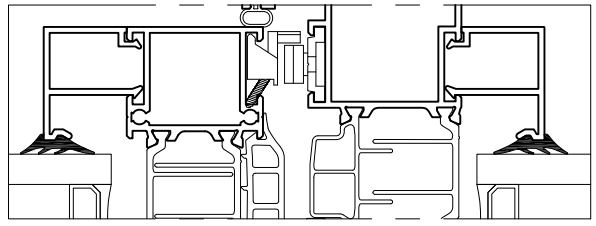
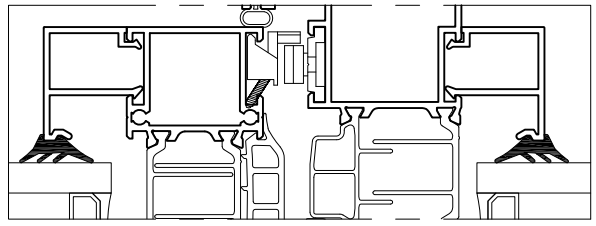
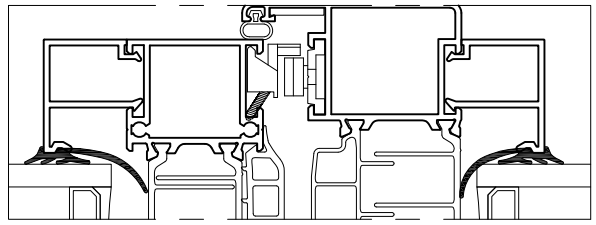
Çavuş Gönyeler
Set-Square

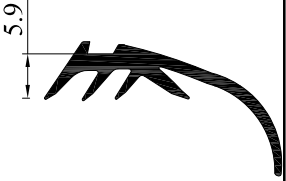
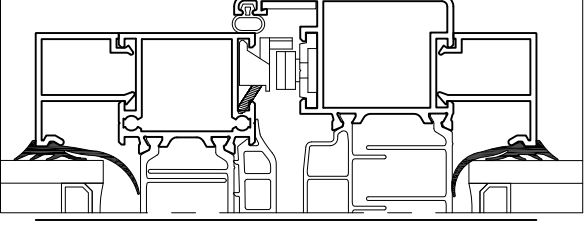
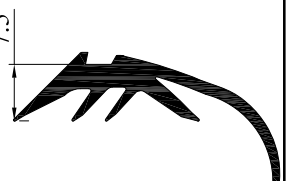
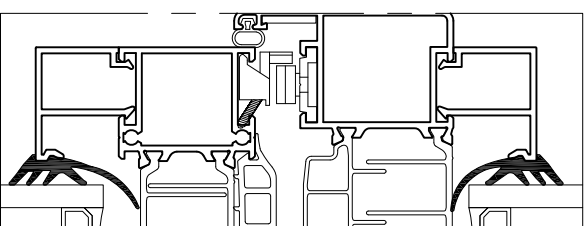
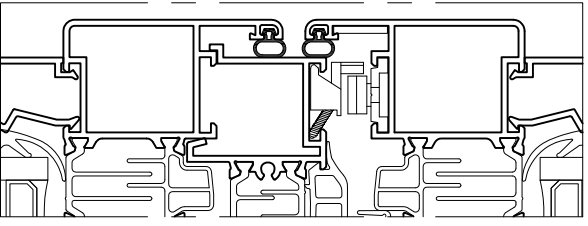
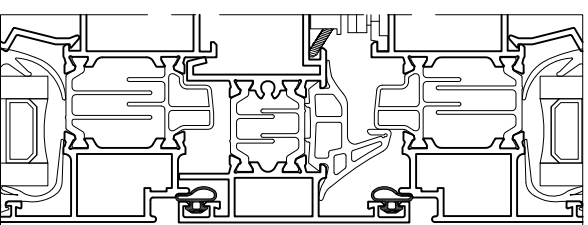
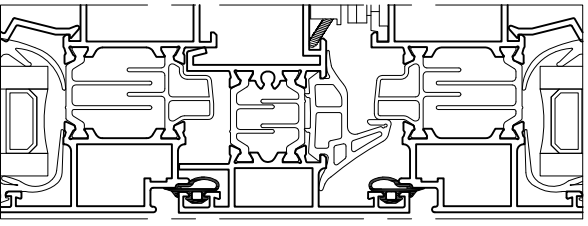
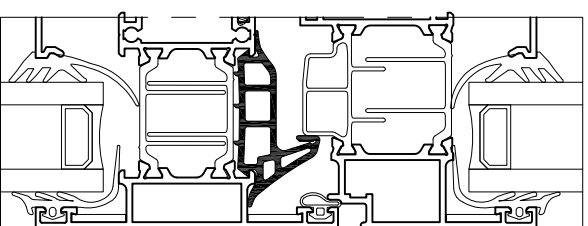
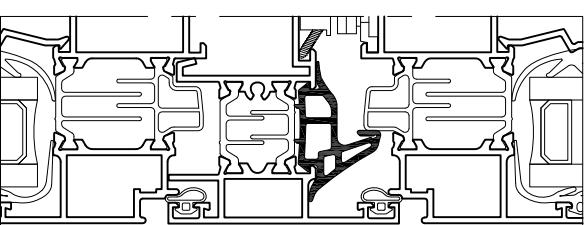


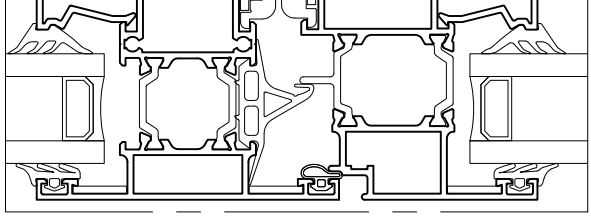
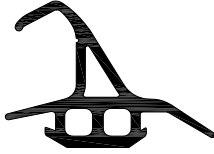
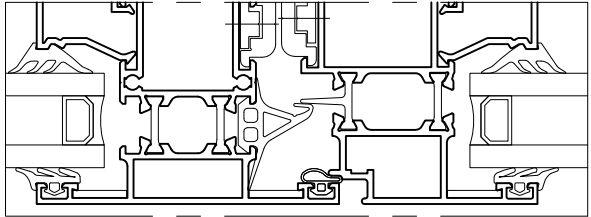
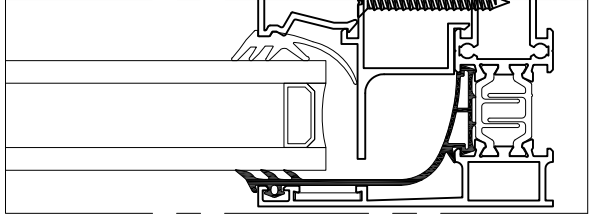
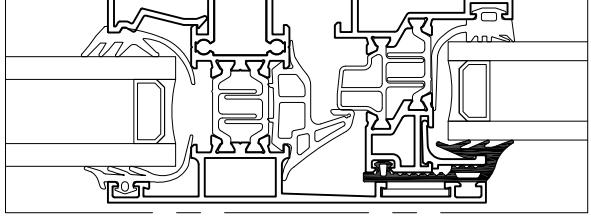
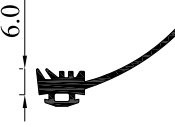
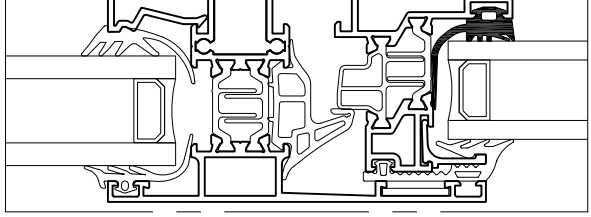
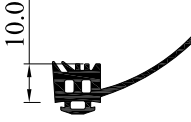
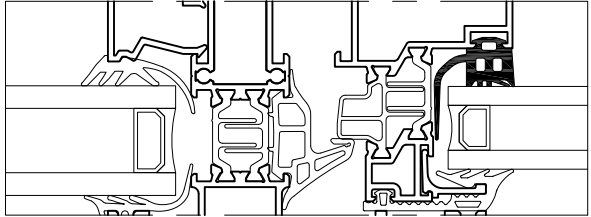
Ölçek: 1/1

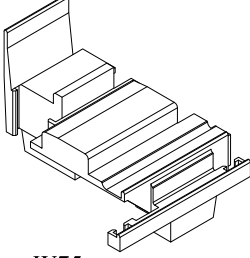
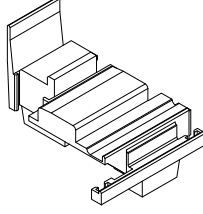
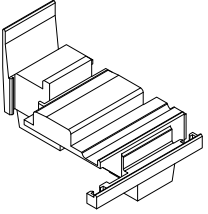
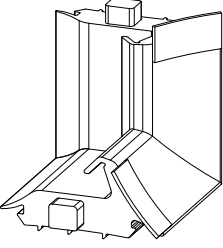
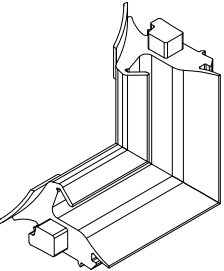
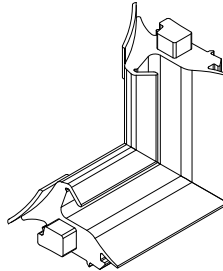
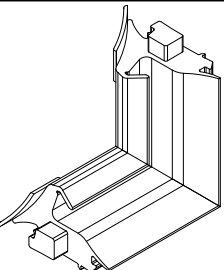
Tüm çavuşlar 1.3mm, 1.5mm ve 1.8mm olmak üzere 3 farklı kalınlıkta üretilmektedir.

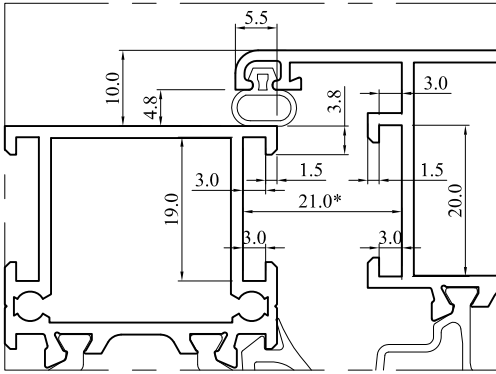


Aksesuar Kodu	Aksesuar Resmi	Kullanılan Alan	Montaj Çizimi
F-06 1Koli 15kg / 272m = 55.0gr/m		Dış Cam Fitili (2.5mm - 3.5mm)	
F-06A 1Koli 15kg / 223m = 67gr/m		Dış Cam Fitili (3.5mm - 5.0mm)	
FE-06A 1Koli 15kg / 147m = 102gr/m		Isı Yalıtımlı Dış Cam Fitili (3.5mm - 5.0mm)	
F-07A 1Koli 15kg / 294m = 51gr/m		İç Cam Fitili (2.5mm - 4.0mm)	
F-07 1Koli 15kg / 227m = 66gr/m		İç Cam Fitili (3.5mm - 5.0mm)	
F-08 1Koli 15kg / 167m = 90.0gr/m		İç Cam Fitili (5.0mm - 6.5mm)	
FE-07A 1Koli 15kg / 153m = 98gr/m		Isı Yalıtımlı İç Cam Fitili (2.5mm - 4.0mm)	

Aksesuar Kodu	Aksesuar Resmi	Kullanılan Alan	Montaj Çizimi
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	
FE-65 1Koli 15kg / 61m = 242gr/m	 Ölçek 1/2	W65 Toz Fiteli	

Aksesuar Kodu	Aksesuar Resmi	Kullanılan Alan	Montaj Çizimi
FWS-65 1Koli 15kg / 87m = 172.0gr/m	 Ölçek 1/2	WS65 Toz Fitili	
FWS-14 1Koli 15kg / 113m = 132.0gr/m	 Ölçek 1/2	WS14 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	 6.0 Ölçek 1/2	Gizli Kanat Kanat Cam fitili	
FE-35 1Koli 15kg / 77m = 194gr/m	 10.0 Ölçek 1/2	Gizli Kanat Kanat Cam Fitili	

Aksesuar Kodu	Aksesuar Resmi	Aksesuar Kodu	Aksesuar Resmi
<u>FP-75</u>	 W75 Çift Kanat Pencere Adaptör Plastiği	<u>FP-65</u>	 W65 ve WS65 Çift Kanat Pencere Adaptör Plastiği
<u>FPW-14</u>	 WS14 Çift Kanat Pencere Adaptör Plastiği	<u>FV-75</u>	 W75 FE-75 Tozluk Fitili için vulkanize fitil
<u>FV-65</u>	 W65 FE-65 Tozluk Fitili için vulkanize fitil	<u>FVWS-65</u>	 WS65 FWS-65 Tozluk Fitili için vulkanize fitil
<u>FVWS-14</u>	 WS14 FWS-14 Tozluk Fitili için vulkanize fitil		

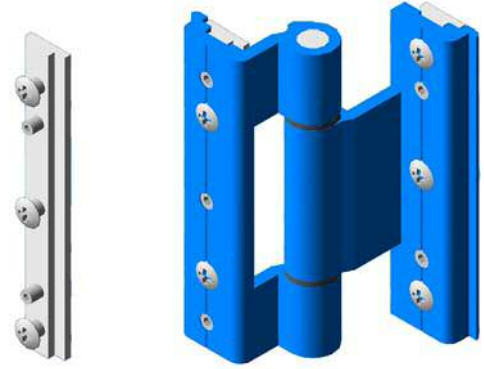
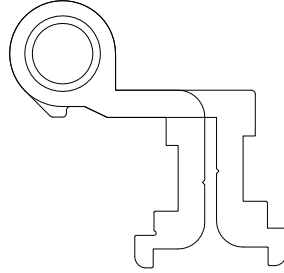


AKSESUARLAR

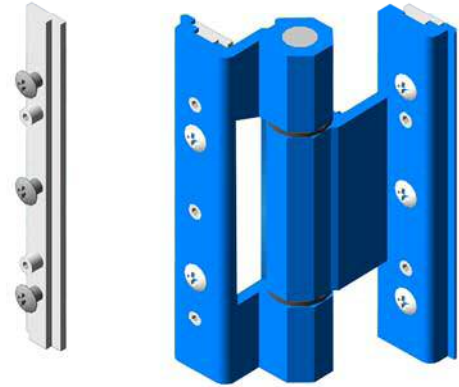
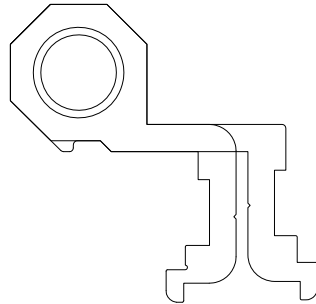
KASA KANAT İLİŞKİSİNDE EURO GROOVE STANDARTLARI DİKKATE ALINMIŞTIR

TS EN 1935 (bkz. sayfa 182) gereğince 25000 çevrimde 60 kg yük altında (tek menteşe) test edilmiş, statik, dayanıklılık, korozyon ve kesme mukavemet deneylerinde başarılı olup 14301309 kodu ile sertifikalandırılmıştır.

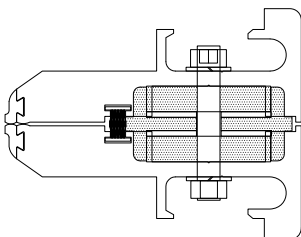
Euro Comfort
Pencere Menteşesi



Euro Comfort
Kapı Menteşesi

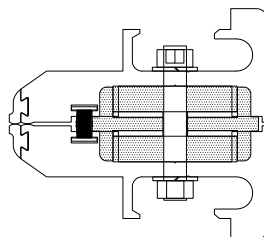


W75 Pivot Menteşe
Detay için bkz. Sayfa 69



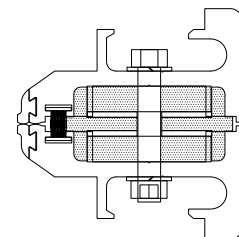
Ölçek 1/2

W65-WS65 Pivot Menteşe
Detay için bkz. Sayfa 115-143

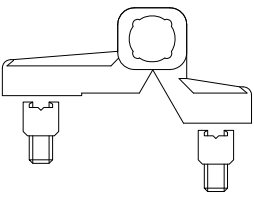
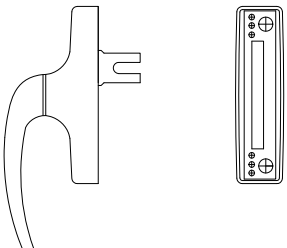
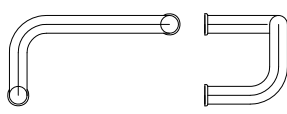
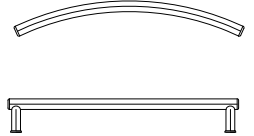
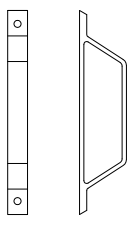
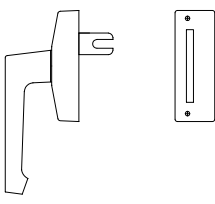
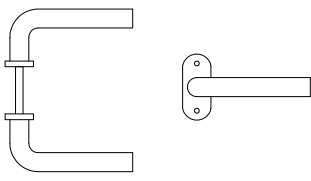
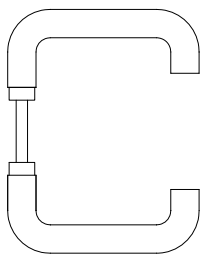
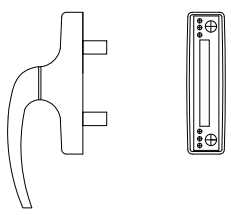
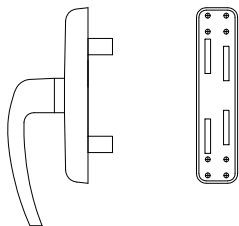
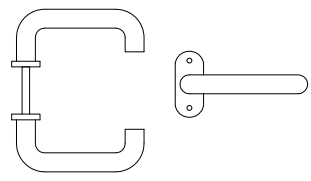
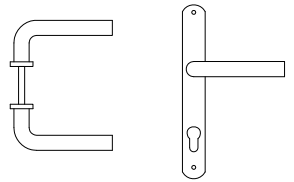
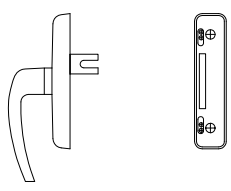
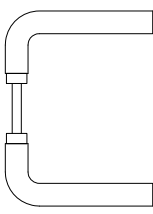
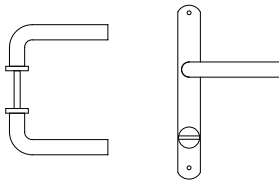
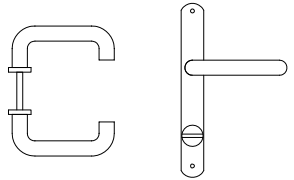
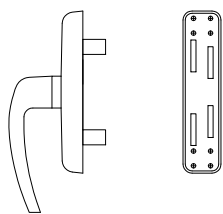
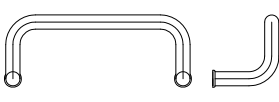
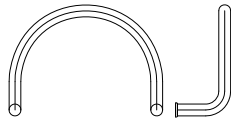


Ölçek 1/2

WS14 Pivot Menteşe
Detay için bkz. Sayfa 170

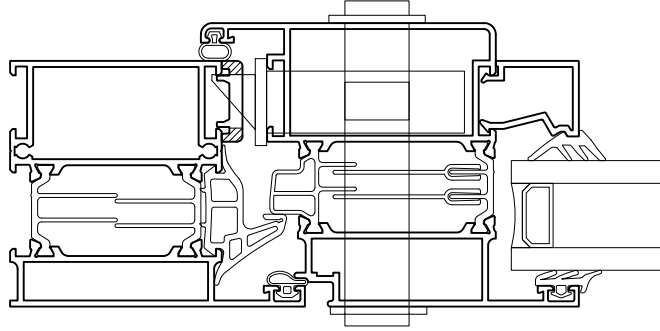
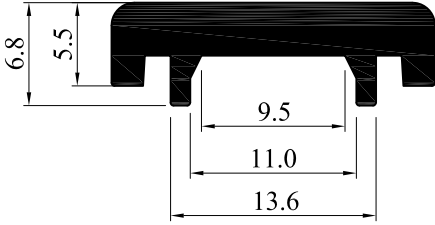


Ölçek 1/2

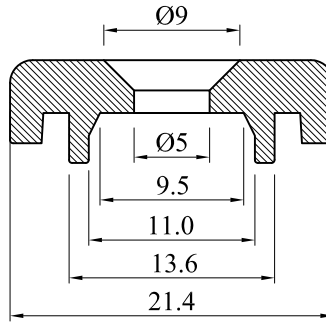
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CKR-30.01.06 D Kol 	CKR-10.01.03 Eksenel kol 	CKR-20.01.02 Sosis kol düz rozetli 	CKR-20.01.03 Sosis kol kıvrık 
CKR-10.01.02 Eksenel kol çiftli 	CKR-10.01.05 Eksenel kol çift dilli 	CKR-20.01.04 Sosis kol kıvrık rozetli 	CKR-20.01.05 Sosis kol düz aynalı 
CKR-10.01.04 Eksenel kol tek dilli 	CKR-20.01.01 Sosis kol düz 	CKR-20.01.14 WC kol aynalı 	CKR-20.01.27 WC aynalı kıvrık kol 
CKR-10.01.07 Eksenel kol çift dilli anahtarlı 	CKR-40.01.00 Kıvrık boru kol 	CKR-40.02.00 Yarım ay boru kol 	
GB-01 Bant 1 Rulo Aluminyum folyolu butil bant	GB-02 Bant 1 Rulo PVC köpük bant	GB-03 Bant 1 Rulo Yalıtım membran	GB-04 Bant 1 Rulo Çift tarafı yapışkanlı PVC esaslı bant

Euro Comfort Serisinde Uygulanan Kilit Karşılığı Kesitleri ve Kullanım Detayı

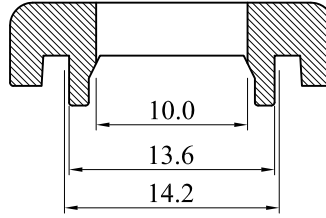
Dolu Kesit 14971-00 Ölçek: 2/1



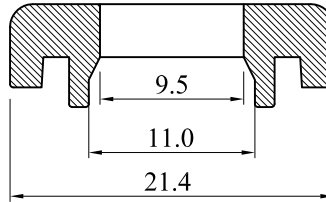
A Kesiti Ölçek: 2/1



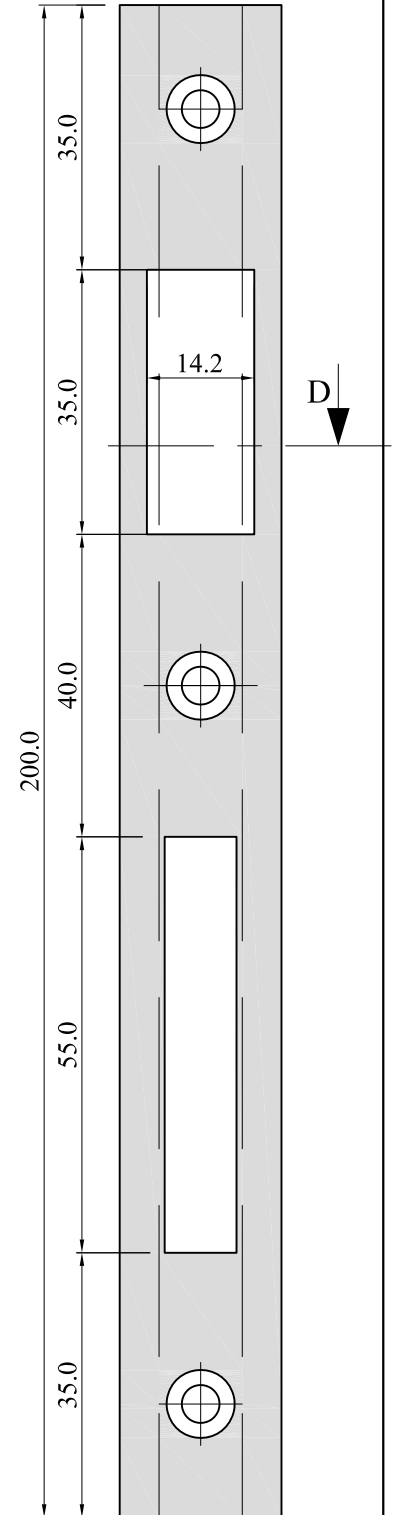
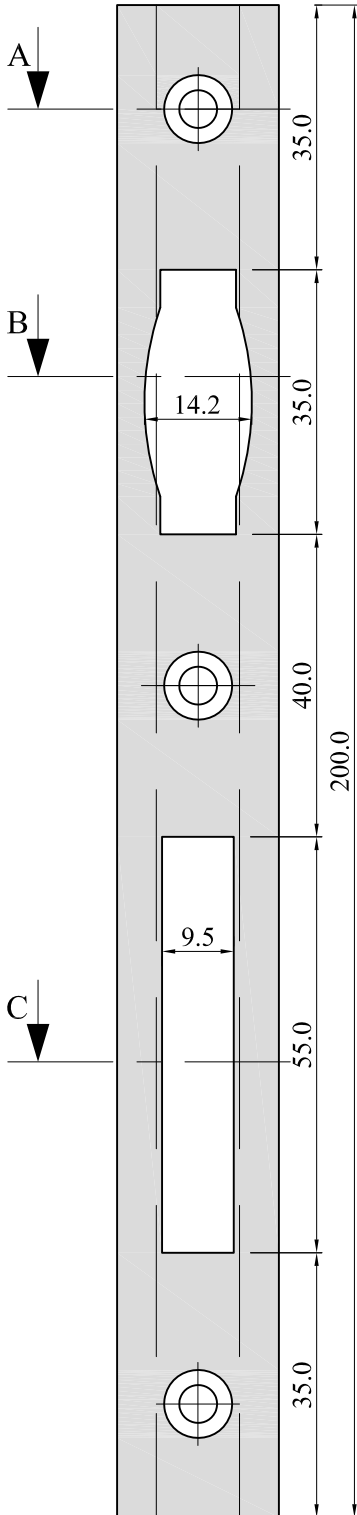
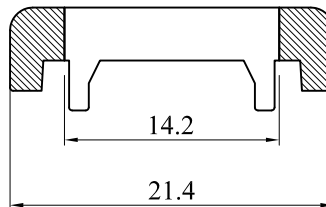
B Kesiti Ölçek: 2/1



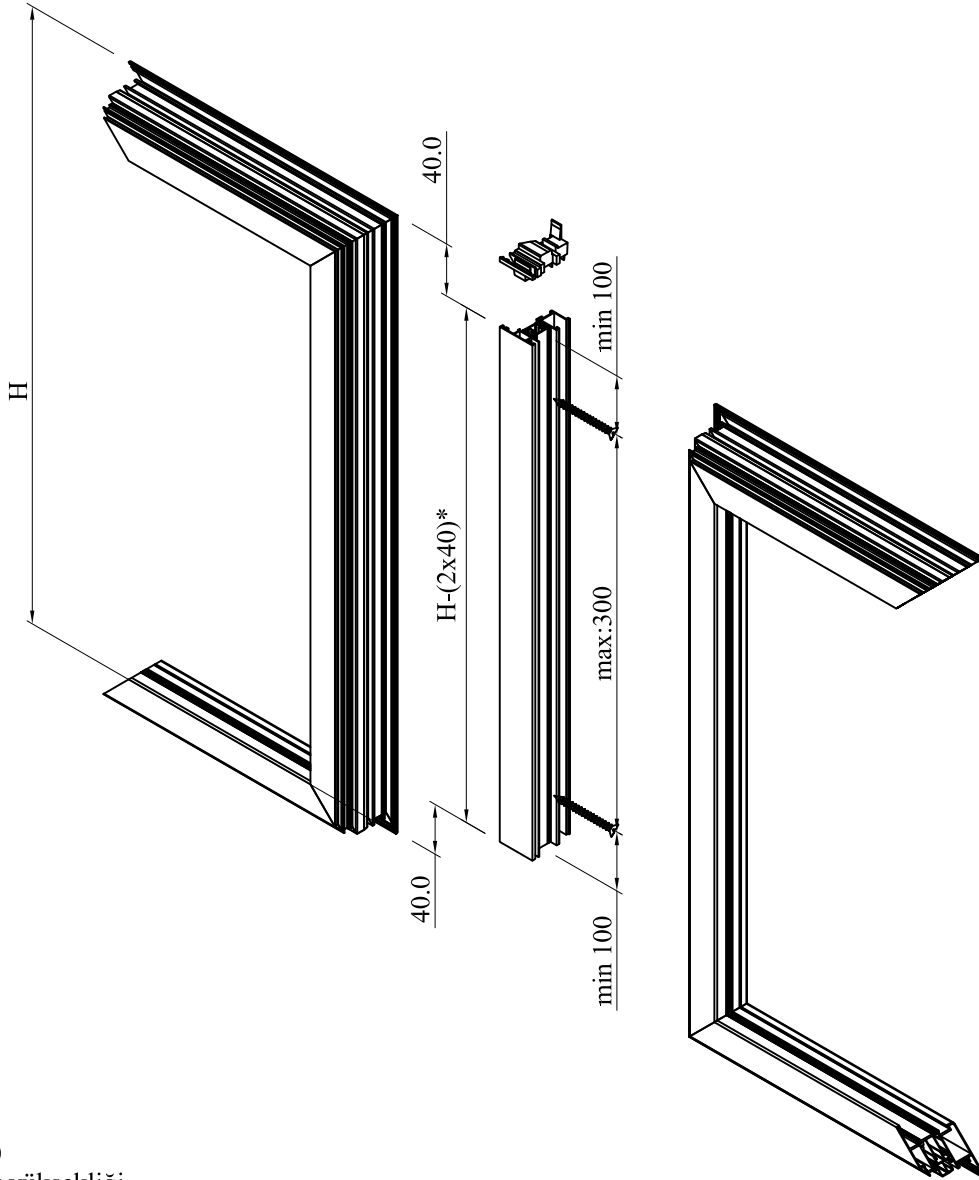
C Kesiti Ölçek: 2/1



D Kesiti Ölçek: 2/1



Çift Kanat Pencere Adaptör Plastiği
(Euro Comfort 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 profile vidalanır.

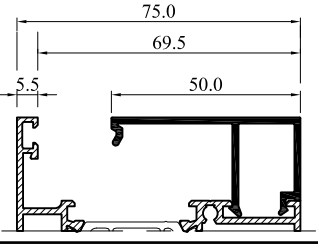
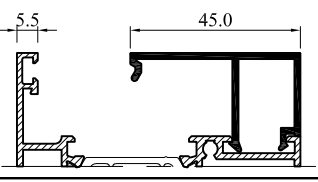
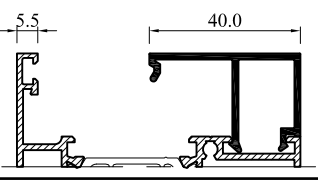
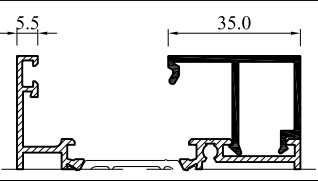
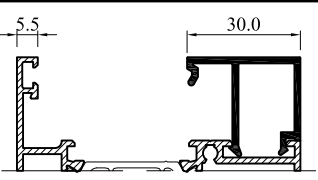
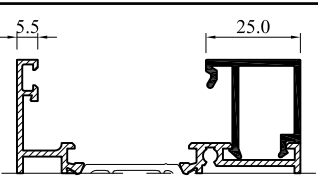
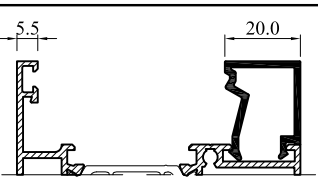
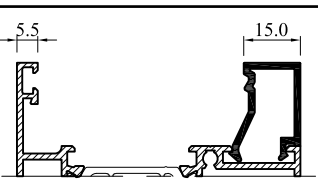
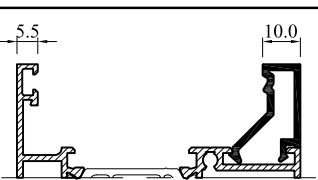
Euro Comfort Doğrama Sistemleri Cam Çıtalı

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

Euro Comfort sistemlerinde kullanılan cam çıtalrı 22mm yükleklıđındedir. Sürme sistemlerindeki ve diđer tüm Gençer sistemlerindeki cam çıtalrı 19mm yükleklıđındedir dolayısıyla bu çıtalr Euro Comfort 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

W75 Doğrama Sistemi Cam Fitili & Çıta Seçim Tablosu

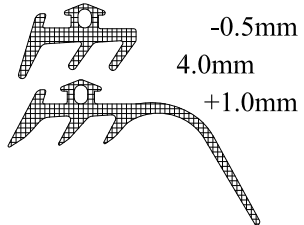
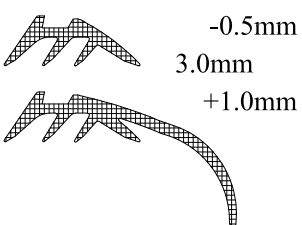
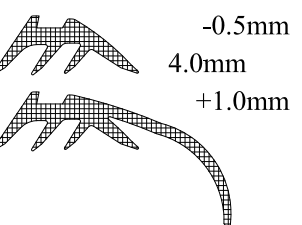
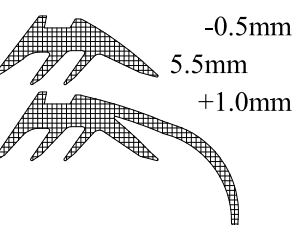
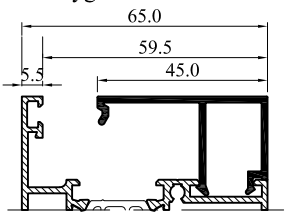
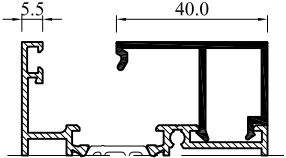
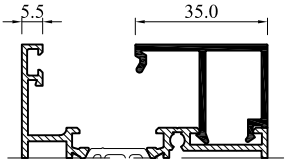
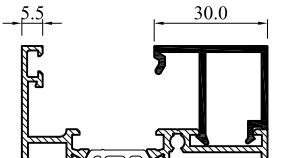
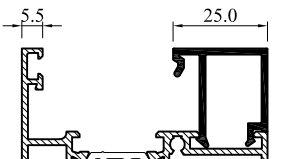
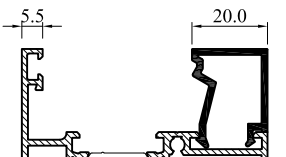
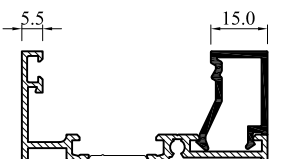
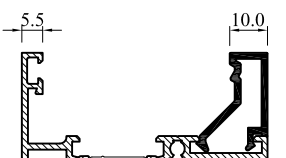
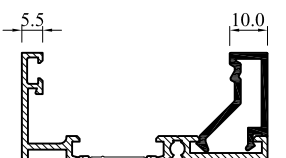
Cam Ölçüsü	Kullanılabilecek Cam Fitilleri		Elemanların Ölçüleri				Toplam	Kullanılan Çıta Kodu	Uygulama Resmi
	Dış Cam Fitili	İç Cam Fitili	Cam (mm)	Dış Cam Fitili	İç Cam Fitili	Cam Çıtası			
9.0 mm	F-06A	F-08	9.0	4.0	6.5	50.0	69.5 mm	W450-16	
10.0 mm	F-06A	F-08	10.0	4.0	5.5	50.0			
11.0 mm	F-06A	F-08 / F-07	11.0	4.0	4.5	50.0			
12.0 mm	F-06A	F-07 / F-07A	12.0	4.0	3.5	50.0			
13.0 mm	F-06A	F-07A	13.0	4.0	2.5	50.0			
14.0 mm	* F-06A	F-08	14.0	4.0	6.5	45.0		W445-16	
15.0 mm	F-06A	F-08	15.0	4.0	5.5	45.0			
16.0 mm	F-06A	F-08 / F-07	16.0	4.0	4.5	45.0			
17.0 mm	F-06A	F-07 / F-07A	17.0	4.0	3.5	45.0			
18.0 mm	F-06A	F-07A	18.0	4.0	2.5	45.0			
19.0 mm	* F-06A	F-08	19.0	4.0	6.5	40.0		W440-16	
20.0 mm	F-06A	F-08	20.0	4.0	5.5	40.0			
21.0 mm	F-06A	F-08 / F-07	21.0	4.0	4.5	40.0			
22.0 mm	F-06A	F-07 / F-07A	22.0	4.0	3.5	40.0			
23.0 mm	F-06A	F-07A	23.0	4.0	2.5	40.0			
24.0 mm	* F-06A	F-08	24.0	4.0	6.5	35.0		W435-16	
25.0 mm	F-06A	F-08	25.0	4.0	5.5	35.0			
26.0 mm	F-06A	F-08 / F-07	26.0	4.0	4.5	35.0			
27.0 mm	F-06A	F-07 / F-07A	27.0	4.0	3.5	35.0			
28.0 mm	F-06A	F-07A	28.0	4.0	2.5	35.0			
29.0 mm	* F-06A	F-08	29.0	4.0	6.5	30.0		W430-16	
30.0 mm	F-06A	F-08	30.0	4.0	5.5	30.0			
31.0 mm	F-06A	F-08 / F-07	31.0	4.0	4.5	30.0			
32.0 mm	F-06A	F-07 / F-07A	32.0	4.0	3.5	30.0			
33.0 mm	F-06A	F-07A	33.0	4.0	2.5	30.0			
34.0 mm	* F-06A	F-08	34.0	4.0	6.5	25.0		W425-16	
35.0 mm	F-06A	F-08	35.0	4.0	5.5	25.0			
36.0 mm	F-06A	F-08 / F-07	36.0	4.0	4.5	25.0			
37.0 mm	F-06A	F-07 / F-07A	37.0	4.0	3.5	25.0			
38.0 mm	F-06A	F-07A	38.0	4.0	2.5	25.0			
39.0 mm	* F-06A	F-08	39.0	4.0	6.5	20.0		W420-16	
40.0 mm	F-06A	F-08	40.0	4.0	5.5	20.0			
41.0 mm	F-06A	F-08 / F-07	41.0	4.0	4.5	20.0			
42.0 mm	F-06A	F-07 / F-07A	42.0	4.0	3.5	20.0			
43.0 mm	F-06A	F-07A	43.0	4.0	2.5	20.0			
44.0 mm	* F-06A	F-08	44.0	4.0	6.5	15.0		W415-16	
45.0 mm	F-06A	F-08	45.0	4.0	5.5	15.0			
46.0 mm	F-06A	F-08 / F-07	46.0	4.0	4.5	15.0			
47.0 mm	F-06A	F-07 / F-07A	47.0	4.0	3.5	15.0			
48.0 mm	F-06A	F-07A	48.0	4.0	2.5	15.0			
49.0 mm	* F-06A	F-08	49.0	4.0	6.5	10.0		W410-16	
50.0 mm	F-06A	F-08	50.0	4.0	5.5	10.0			
51.0 mm	F-06A	F-08 / F-07	51.0	4.0	4.5	10.0			
52.0 mm	F-06A	F-07 / F-07A	52.0	4.0	3.5	10.0			
53.0 mm	F-06A	F-07A	53.0	4.0	2.5	10.0			

* Fitil limite sıkıştırılmıştır. Her iki fitilin limite kullanılmış olması halinde dikkatli olunmalıdır.

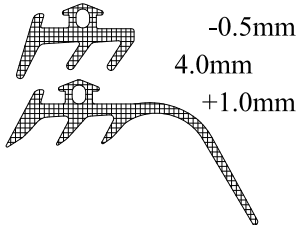
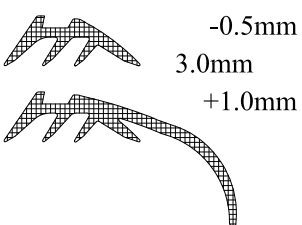
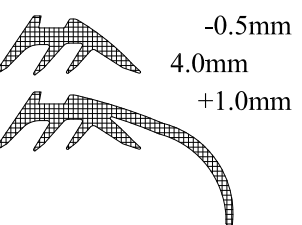
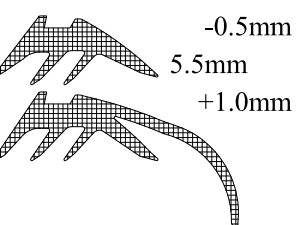
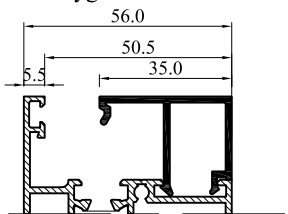
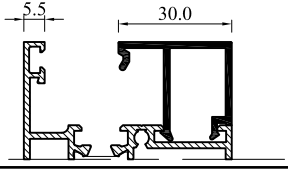
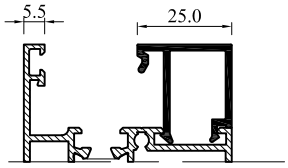
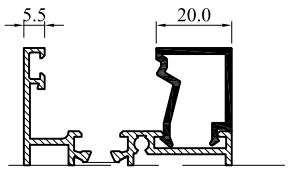
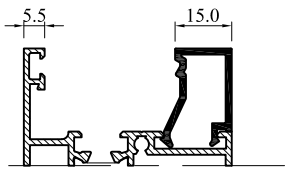
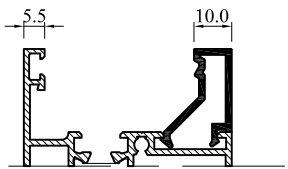
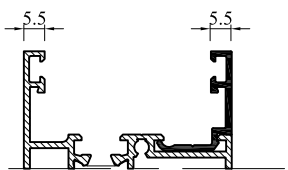
İÇ CAM FİTİLLERİ

59.5 mm

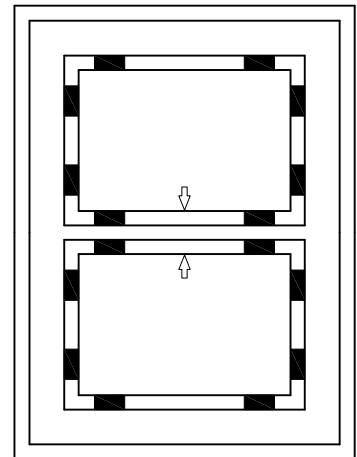
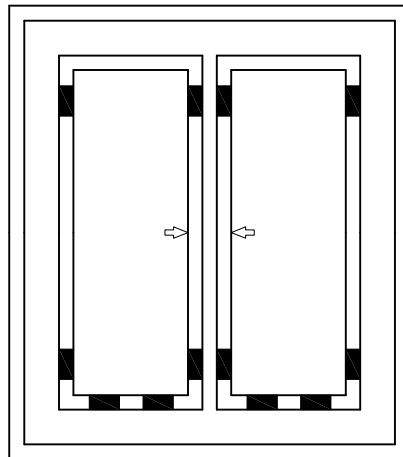
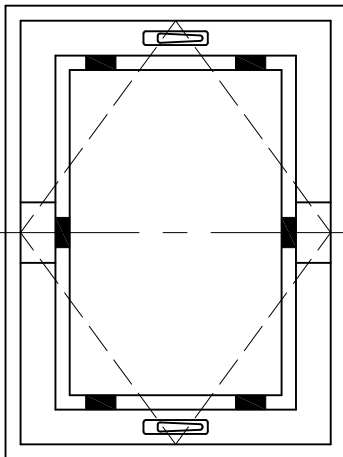
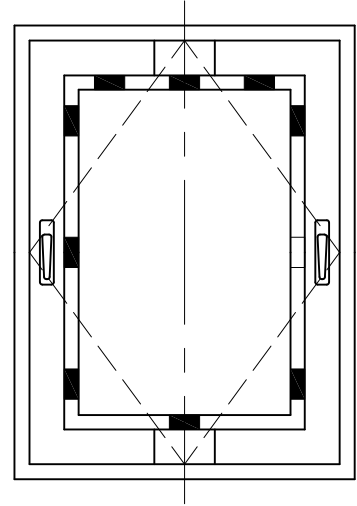
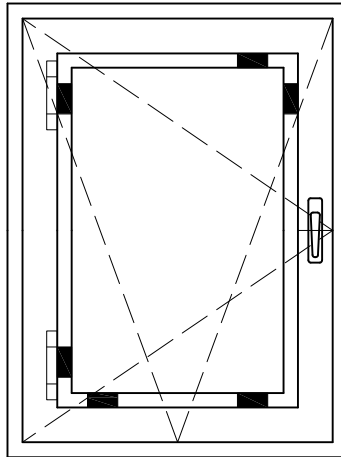
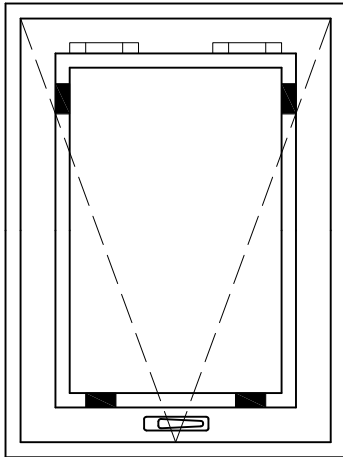
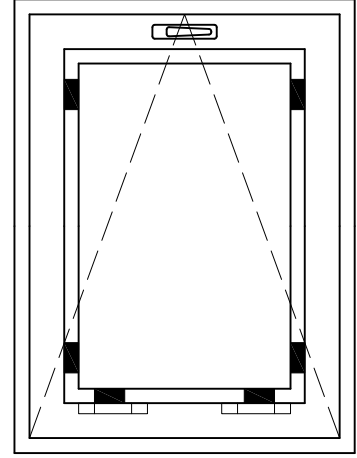
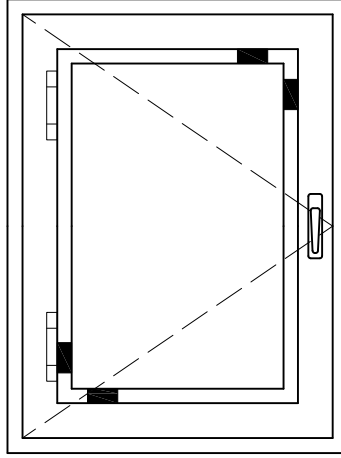
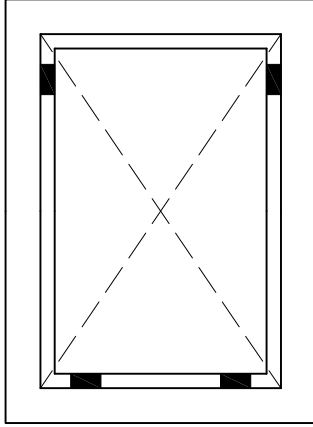
WS65 Doğrama Sistemi Cam Fitili & Çıta Seçim Tablosu

DIŞ CAM FİTİLİ			İÇ CAM FİTİLLERİ						
F-06A / FE-06A  -0.5mm 4.0mm +1.0mm			F-07A / FE-07A  -0.5mm 3.0mm +1.0mm		F-07 / FE-07  -0.5mm 4.0mm +1.0mm		F-08 / FE-08  -0.5mm 5.5mm +1.0mm		
Cam Ölçüsü	Kullanılabilecek 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			
9.0 mm	* F-06A	F-08	9.0	4.0	6.5	40.0		W440-16	
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			
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		W435-16	
14.0 mm	* F-06A	F-08	14.0	4.0	6.5	35.0			
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		W430-16	
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		W425-16	
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			
25.0 mm	F-06A	F-08	25.0	4.0	5.5	25.0		W420-16	
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		W415-16	
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		W410-16	
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		W410-16	
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			

WS14 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	Kullanılabilecek Cam Fitilleri		Elemanların Ölçüleri				Toplam	Kullanılan Çıta Kodu	Uygulama Resmi
	Dış Cam Fitili	İç Cam Fitili	Cam (mm)	Dış Cam Fitili	İç Cam Fitili	Cam Çıtası			
6.0 mm	F-06A	F-08	6.0	4.0	5.5	35.0	50.5 mm	W435-16	
7.0 mm	F-06A	F-08 / F-07	7.0	4.0	4.5	35.0			
8.0 mm	F-06A	F-07 / F-07A	8.0	4.0	3.5	35.0			
9.0 mm	F-06A	F-07A	9.0	4.0	2.5	35.0			
10.0 mm	* F-06A	F-08	10.0	4.0	6.5	30.0		W430-16	
11.0 mm	F-06A	F-08	11.0	4.0	5.5	30.0			
12.0 mm	F-06A	F-08 / F-07	12.0	4.0	4.5	30.0			
13.0 mm	F-06A	F-07 / F-07A	13.0	4.0	3.5	30.0			
14.0 mm	F-06A	F-07A	14.0	4.0	2.5	30.0			
15.0 mm	* F-06A	F-08	15.0	4.0	6.5	25.0		W425-16	
16.0 mm	F-06A	F-08	16.0	4.0	5.5	25.0			
17.0 mm	F-06A	F-08 / F-07	17.0	4.0	4.5	25.0			
18.0 mm	F-06A	F-07 / F-07A	18.0	4.0	3.5	25.0			
19.0 mm	F-06A	F-07A	19.0	4.0	2.5	25.0		W420-16	
20.0 mm	* F-06A	F-08	20.0	4.0	6.5	20.0			
21.0 mm	F-06A	F-08	21.0	4.0	5.5	20.0			
22.0 mm	F-06A	F-08 / F-07	22.0	4.0	4.5	20.0			
23.0 mm	F-06A	F-07 / F-07A	23.0	4.0	3.5	20.0		W415-16	
24.0 mm	F-06A	F-07A	24.0	4.0	2.5	20.0			
25.0 mm	* F-06A	F-08	25.0	4.0	6.5	15.0			
26.0 mm	F-06A	F-08	26.0	4.0	5.5	15.0			
27.0 mm	F-06A	F-08 / F-07	27.0	4.0	4.5	15.0		W410-16	
28.0 mm	F-06A	F-07 / F-07A	28.0	4.0	3.5	15.0			
29.0 mm	F-06A	F-07A	29.0	4.0	2.5	15.0			
30.0 mm	* F-06A	F-08	30.0	4.0	6.5	10.0			
31.0 mm	F-06A	F-08	31.0	4.0	5.5	10.0		W405-16	
32.0 mm	F-06A	F-08 / F-07	32.0	4.0	4.5	10.0			
33.0 mm	F-06A	F-07 / F-07A	33.0	4.0	3.5	10.0			
34.0 mm	F-06A	F-07A	34.0	4.0	2.5	10.0			
35.0 mm	F-06A	F-08	35.0	4.0	6.0	5.5			
36.0 mm	F-06A	F-08 / F-07	36.0	4.0	5.0	5.5			
37.0 mm	F-06A	F-07 / F-07A	37.0	4.0	4.0	5.5			
38.0 mm	F-06A	F-07A	38.0	4.0	3.0	5.5			

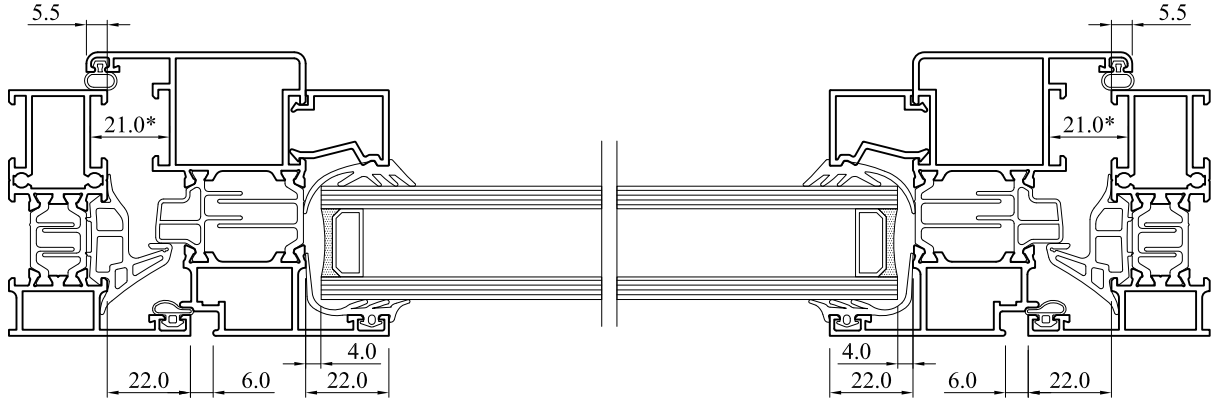
CAM MONTAJI TAKOZLAMA PRENSİPLERİ



Not 1: Taşıyıcı Takozlar normal olarak ünitenin köşelerinden bir takoz boyu içeriye yerleştirilir.

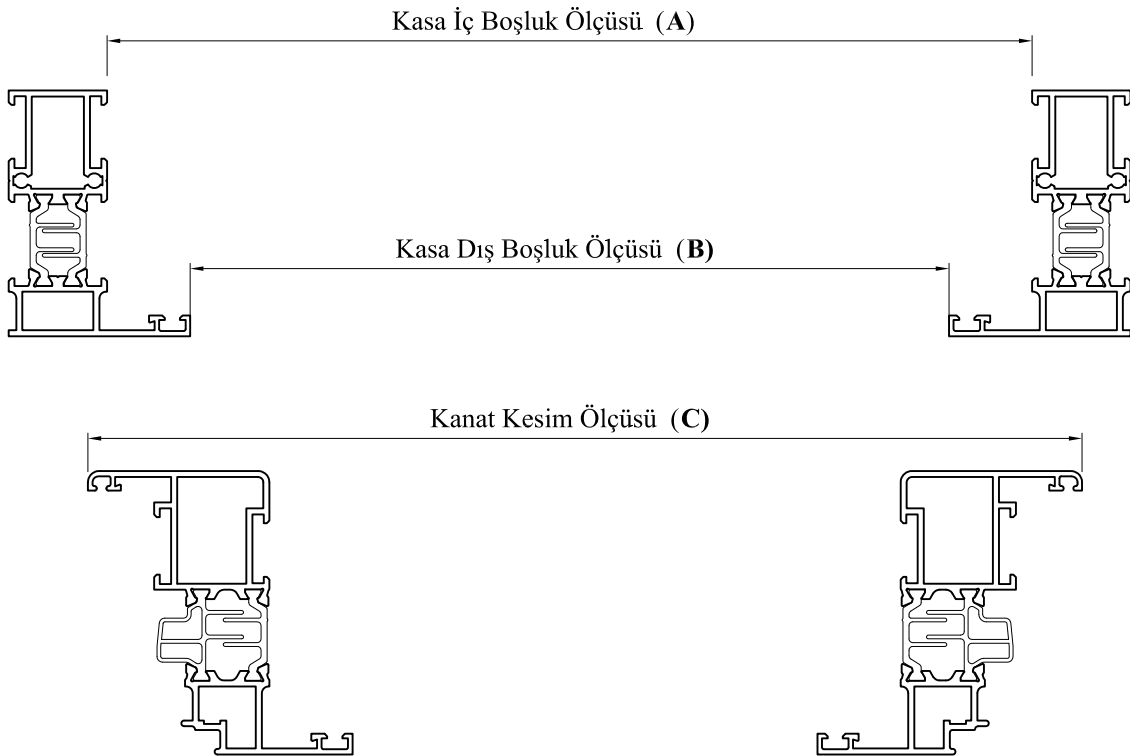
Not 2: Takozların uzunluğu ortalama 80-100mm; enleri ise, yalıtımlı camların her ikisinin de desteklenmesi bakımından cam kalınlığından 2mm fazla olmalıdır.

EURO COMFORT DOĞRAMA SİSTEMLERİ PRENSİP ÖLÇÜLERİ



* İŞARETİYLE BELİRTİLEN 21mm ÖLÇÜSÜ TÜM ÇEVREDE MENTEŞE VE FİTİL İHTİYACI İÇİN SON DERECE ÖNEMLİ BİR ÖLÇÜ OLDUĞUNDAN TITIZLIK GÖSTERİLMELİDİR.

EURO COMFORT SİSTEMLERİNDE KESİM ÖLÇÜLERİ BELİRLEME

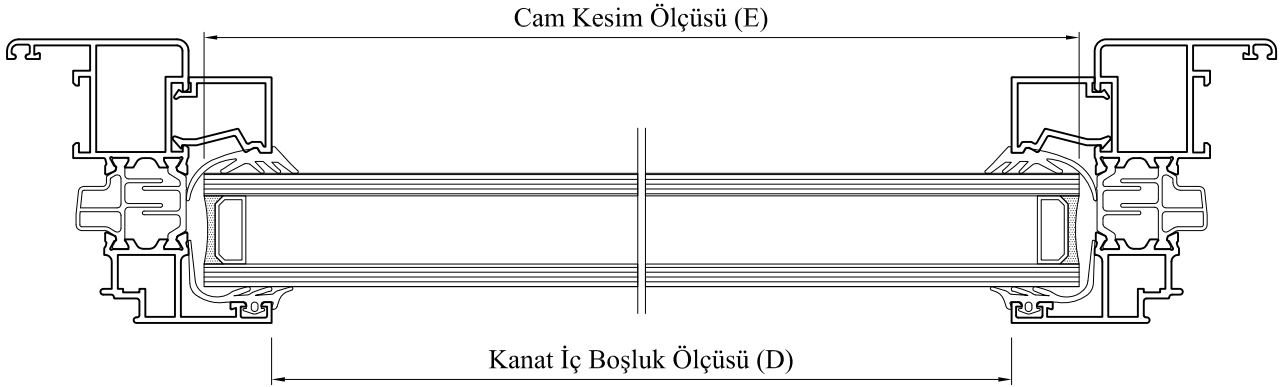


(C) KANAT KESİM ÖLÇÜSÜ

(A) Kasa İç Boşluk Ölçüsüne Göre; $C = A + (5.5\text{mm} \times 2) \implies C = A + 11\text{mm}$

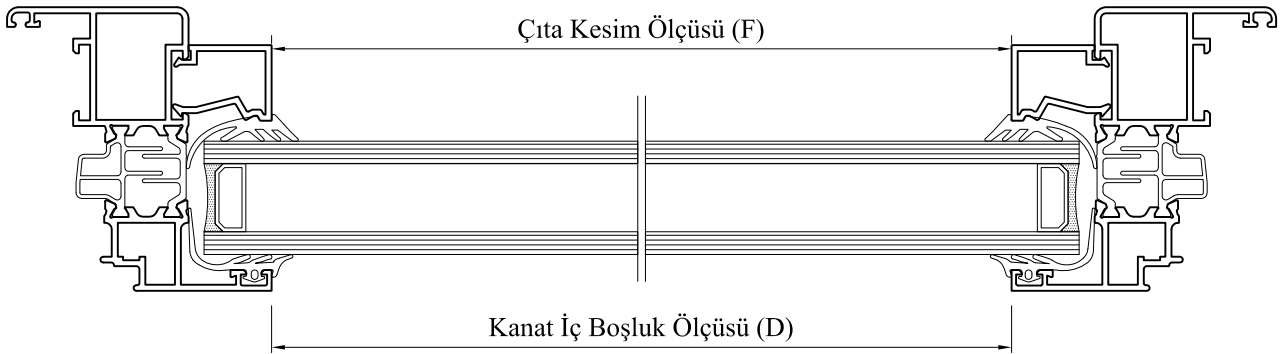
(B) Kasa Dış Boşluk Ölçüsüne Göre; $C = B + (22.0\text{mm} \times 2) + (5.5\text{mm} \times 2) \implies C = B + 55\text{mm}$

EURO COMFORT SİSTEMLERİNDE KESİM ÖLÇÜLERİ BELİRLEME



(E) CAM KESİM ÖLÇÜSÜ

(D) Kanat İç Boşluk Ölçüsüne Göre; $E = D + (22.0 \text{ mm} \times 2) - (4.0 \text{ mm} \times 2) \implies E = D + 36 \text{ mm}$



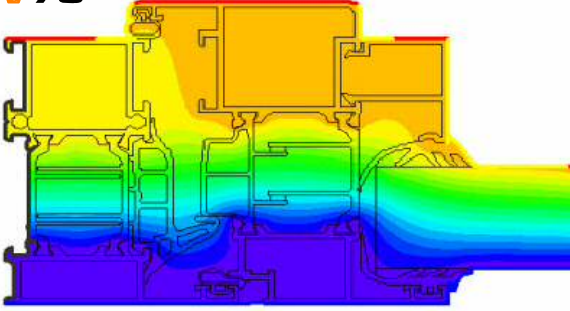
(F) ÇITA KESİM ÖLÇÜSÜ

(D) Kanat İç Boşluk Ölçüsüne Göre; $E = D + (22.0 \text{ mm}) \implies E = D + 22 \text{ mm}$
*Düşey yöndeki çıtalar için E=D

EURO COMFORT 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)

W75



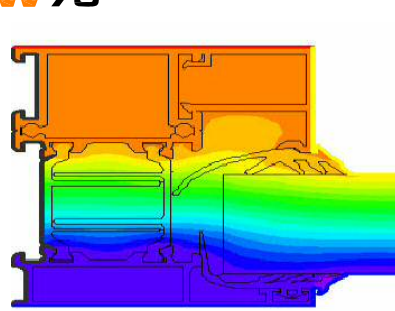
Kasa: 75031-16 Kanat: 75381-16
Lf: 150.5 mm Uf: 1.744 W/(m².K)

W75



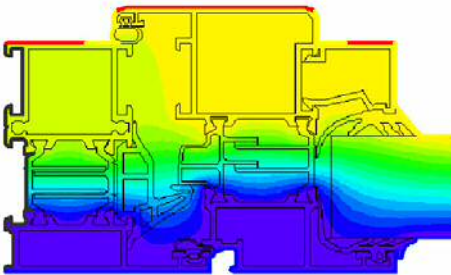
Kasa: 75221-16 Kanat: 75361-16
Lf: 132.5 mm Uf: 1.852 W/(m².K)

W75



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

W65



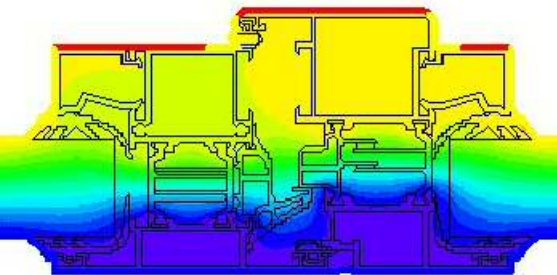
Kasa: 65021-16 Kanat: 65361-16
Lf: 110.5 mm Uf: 2.156 W/(m².K)

W65



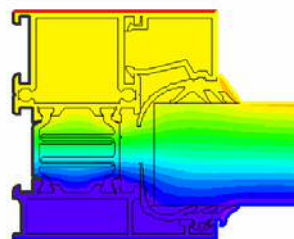
Kasa: 65031-16 Kanat: 65381-16
Lf: 150.5 mm Uf: 2.053 W/(m².K)

W65



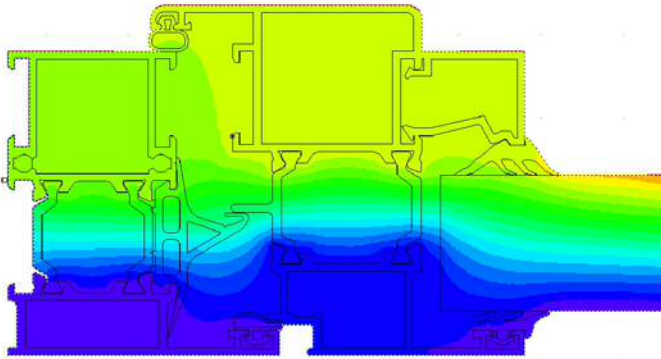
Kasa: 65221-16 Kanat: 65361-16
Lf: 132.5 mm Uf: 2.198 W/(m².K)

W65



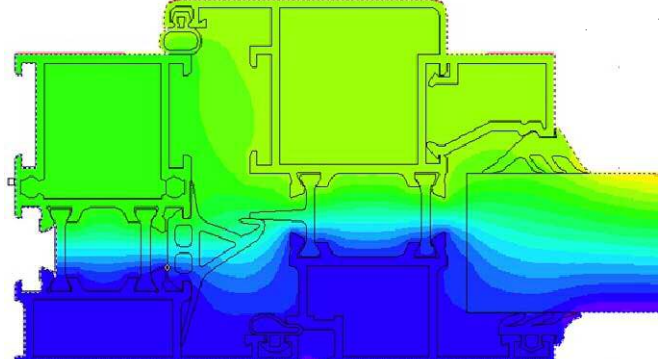
Kasa: 65021-16
Lf: 58 mm Uf: 1.925 W/(m².K)

WS65



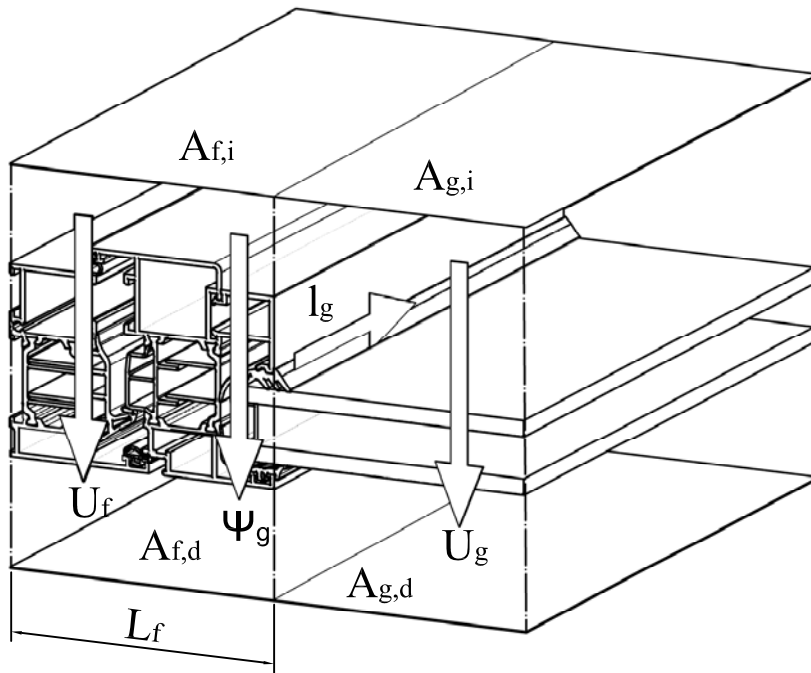
Kasa: 65021-16 Kanat: 65361-16
Lf: 110.5 mm Uf: 2.647 W/(m².K)

WS14



Kasa: 65021-16 Kanat: 65361-16
Lf: 110.5 mm Uf: 3.156 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 Kat Sayısı (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

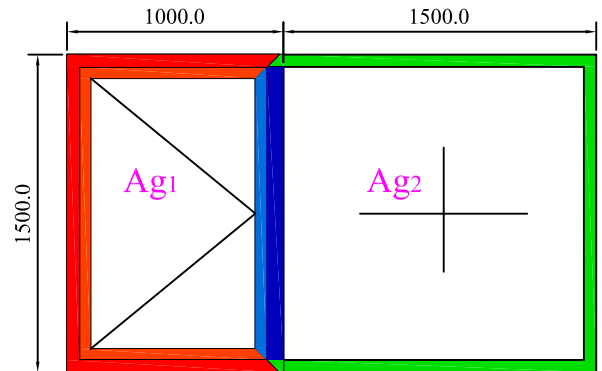
Tek cam kullanımında $\Psi_g \times l_g = 1$ alınır.

(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.

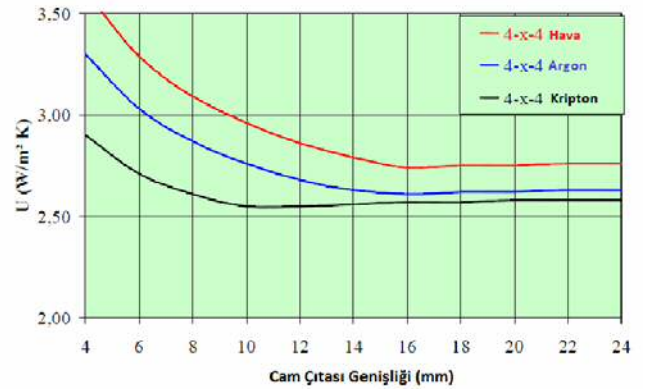
CAM SEÇİMİ İÇİN GENEL BİLGİLENDİRME

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;

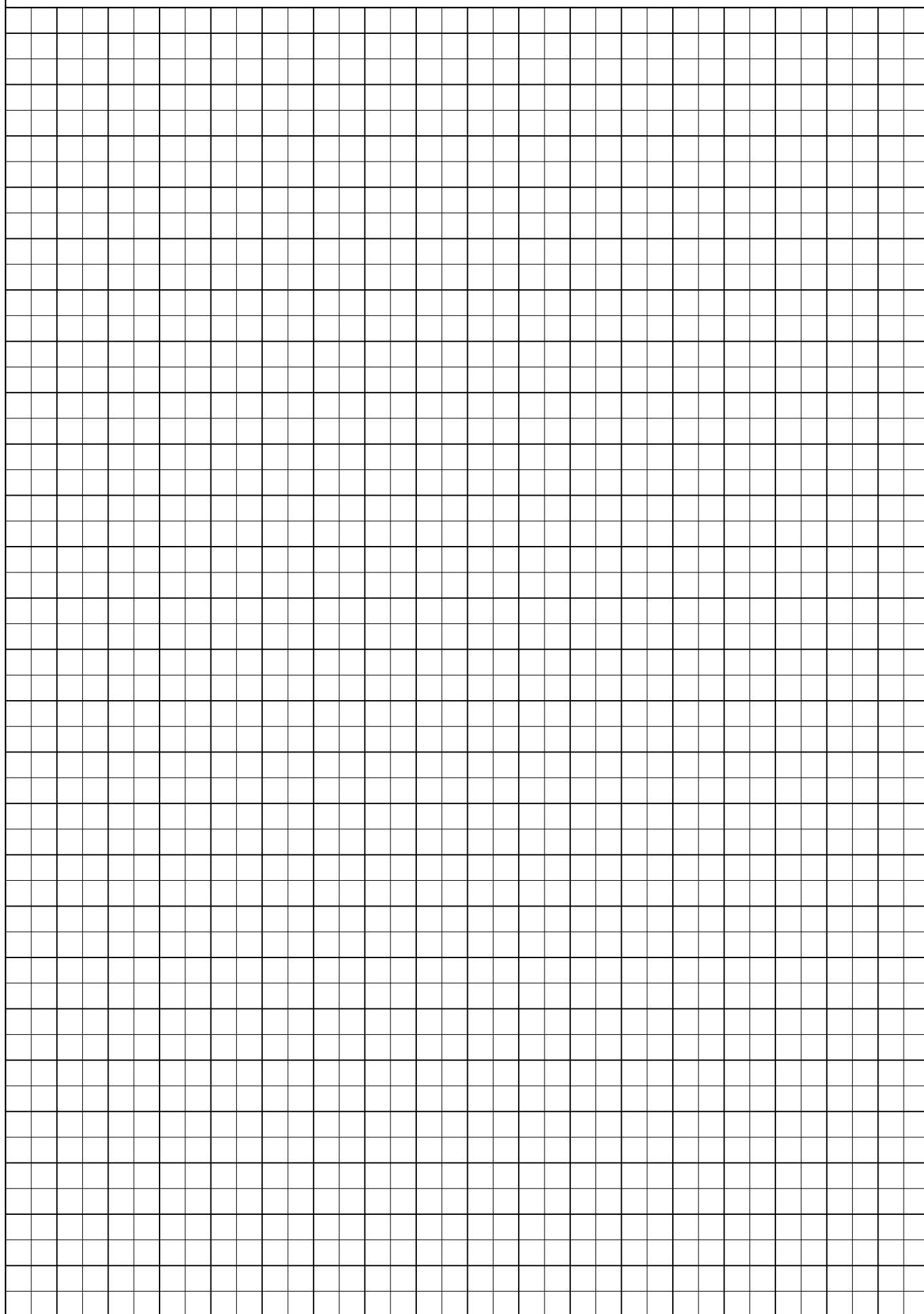
en az; 180 x 350 mm

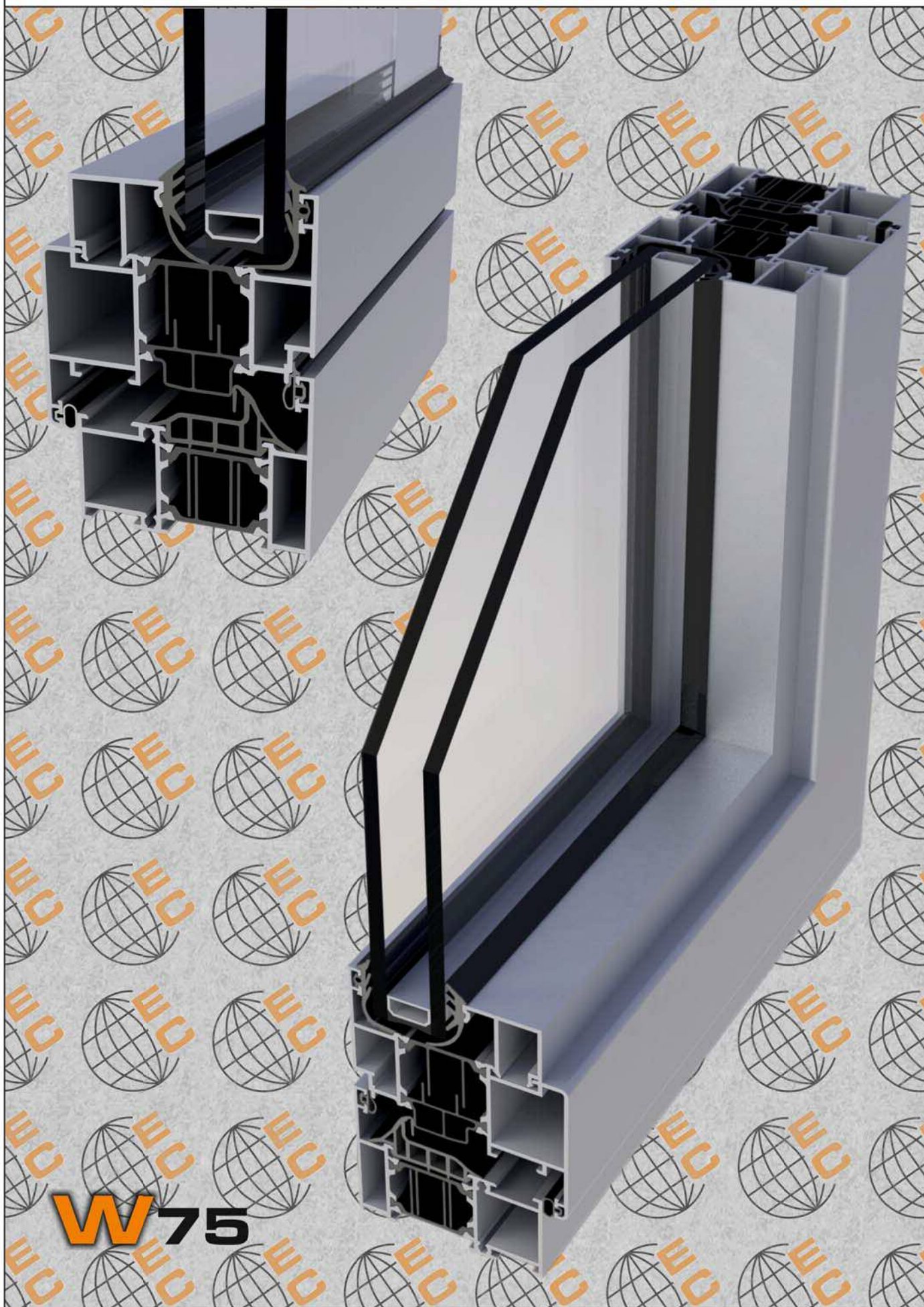
en fazla; 2300 x 3000 mm'dir.

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

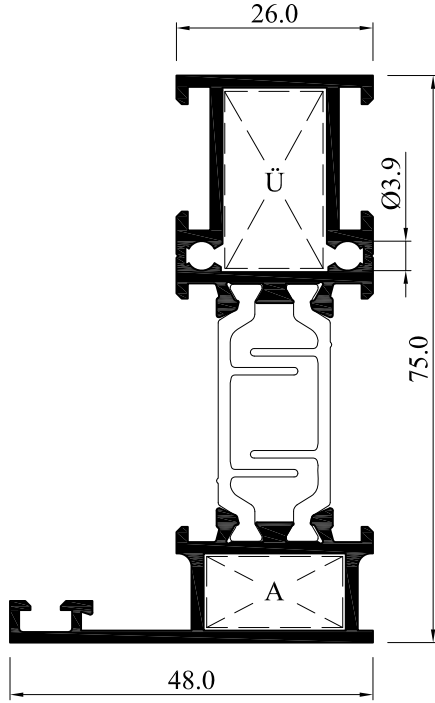
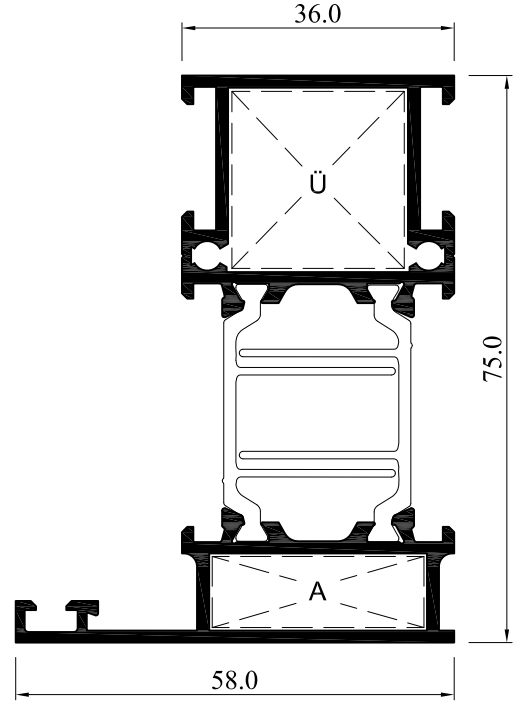
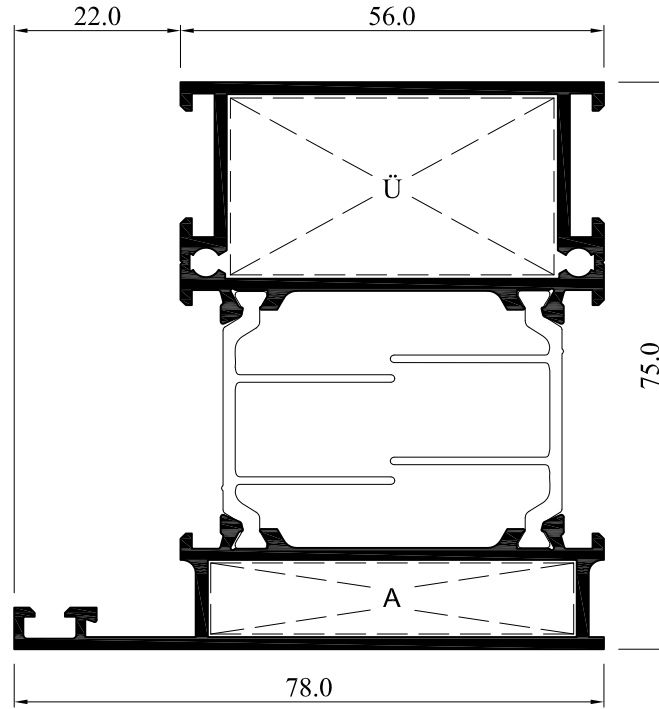
- Cam yuvası yeterli genişlikte ise ihtiyaca göre daha kalın cam ve daha geniş ara boşluk seçilebilir.

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





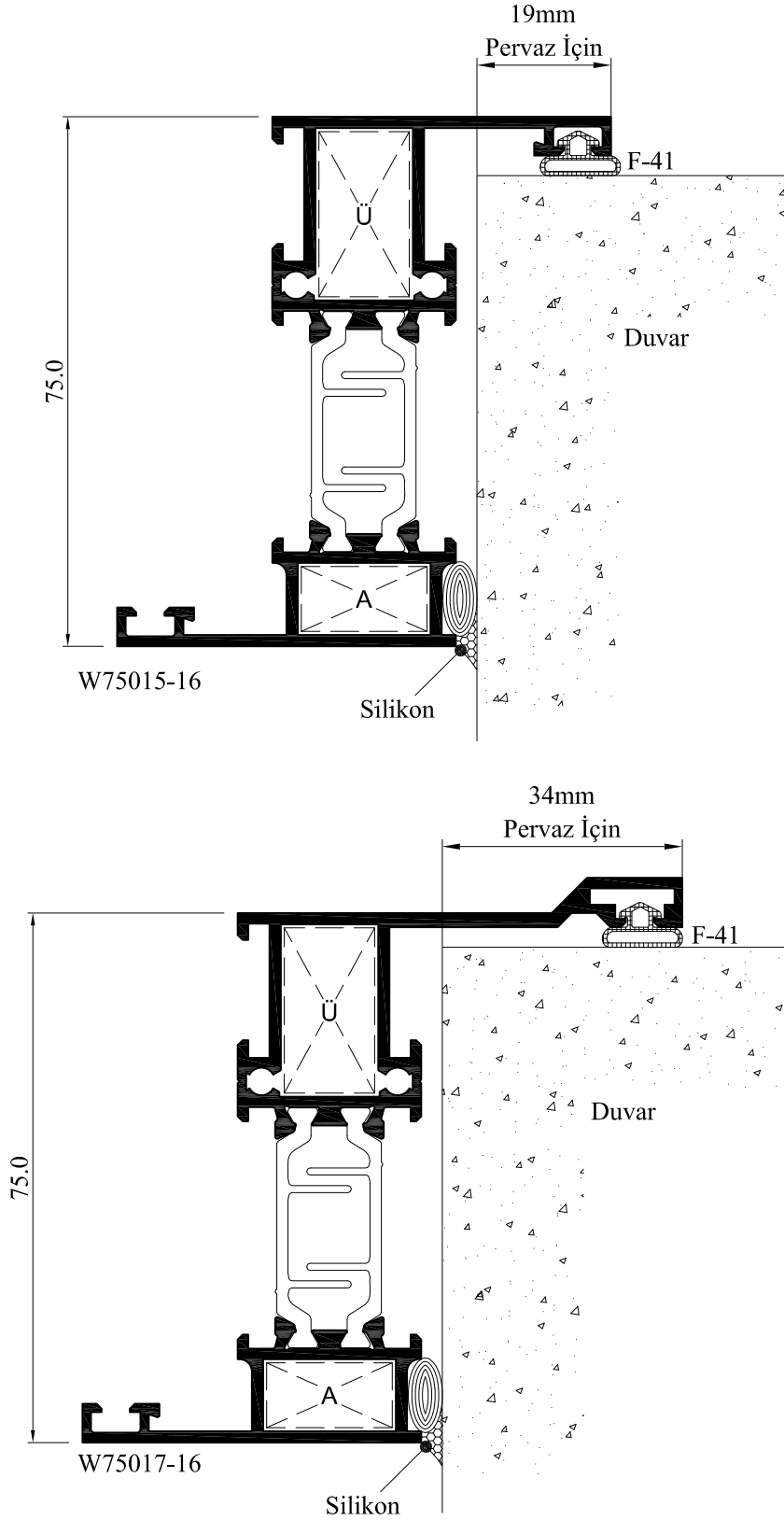
KASALAR / FRAMES


W75011-16
W75011-20

W75021-16
W75021-20

W75031-16
W75031-20

Farklı et kalınlığında mevcut olan profiller için 1.6 mm et kalınlığı resmedilmiştir. W75XYZ-AB profil kodu olmak üzere; Profilin et kalınlığı A.B mm'dir.

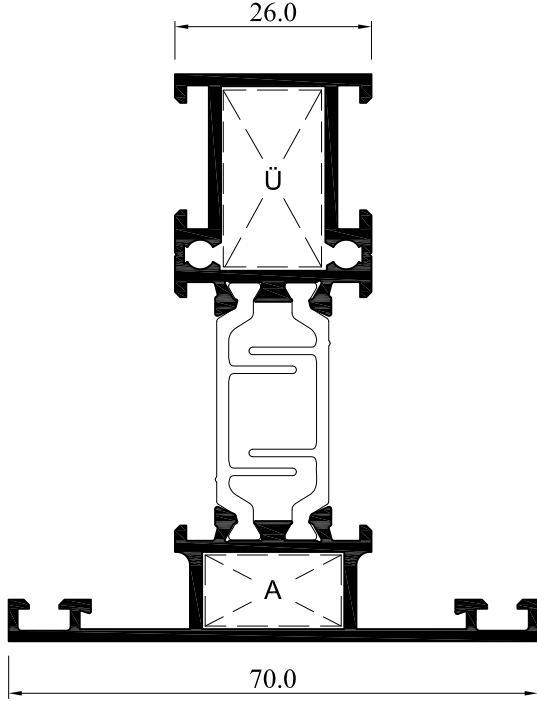
PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x cm ⁴	I _y cm ⁴	W _x cm ³	W _y cm ³
W75011-16	1.386	T851-185 / 9.7	T851-135 / 23.9	33.32	6.19	10.07	4.10
W75011-20	1.520	T851-175 / 8.9	T851-121 / 23.5	37.83	6.52	11.47	4.33
W75021-16	1.641	T851-286 / 9.7	T851-236 / 23.9	39.18	12.76	11.89	6.35
W75021-20	1.816	T85-270 / 8.9	T85-225 / 23.5	44.96	13.58	13.67	6.76
W75031-16	1.988	T85-478 / 9.7	T851-432 / 23.9	49.99	36.06	15.01	11.89
W75031-20	2.250	T85-478 / 8.9	T851-424 / 23.5	58.38	38.90	17.66	12.94

PERVAZLI KASALAR / FRAMES

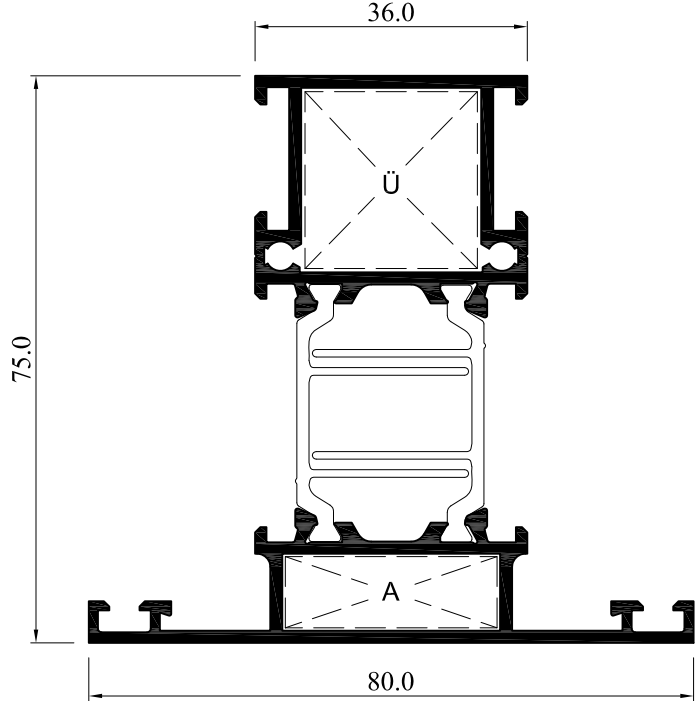


PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x cm ⁴	I _y cm ⁴	W _x cm ³	W _y cm ³
W75015-16	1.512	T851-185 / 9.7	T851-135 / 23.9	40.28	9.78	10.31	2.79
W75017-16	1.644	T851-185 / 9.7	T851-135 / 23.9	48.35	18.02	11.76	3.82

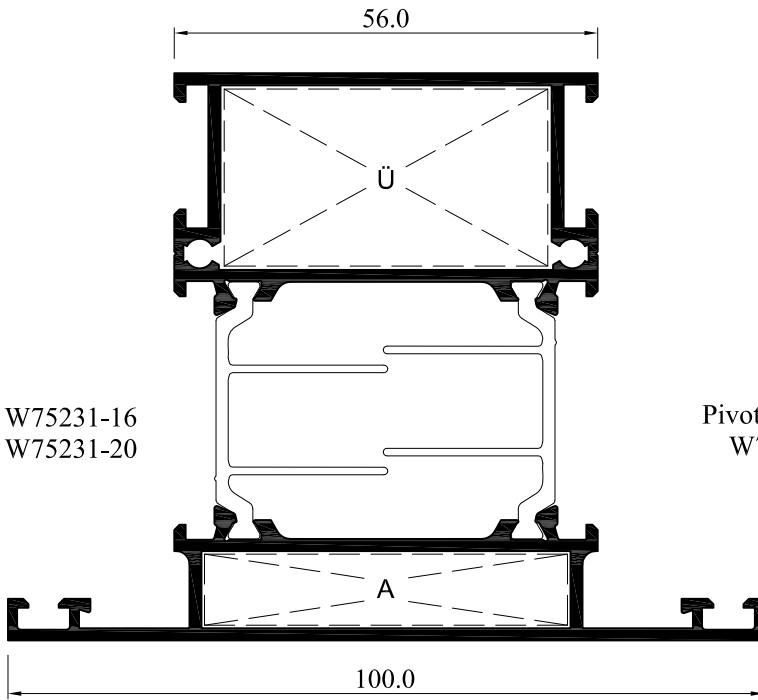
ORTA KAYITLAR / TRANSOM-MULLION PROFILES



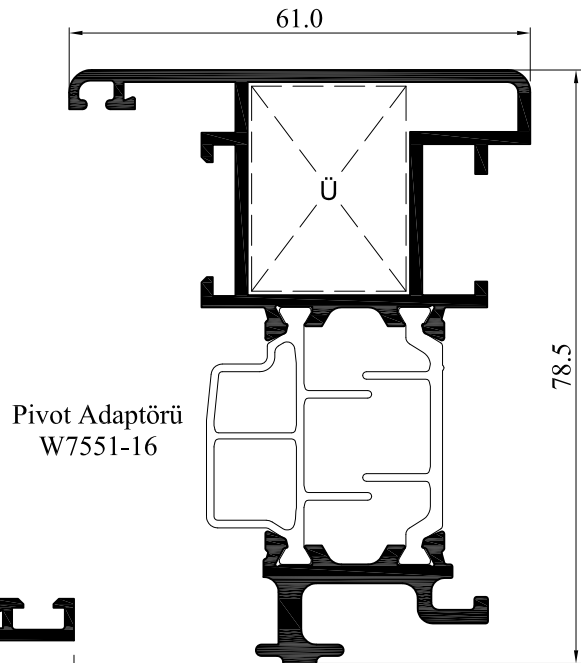
W75211-16
W75211-20



W75221-16
W75221-20



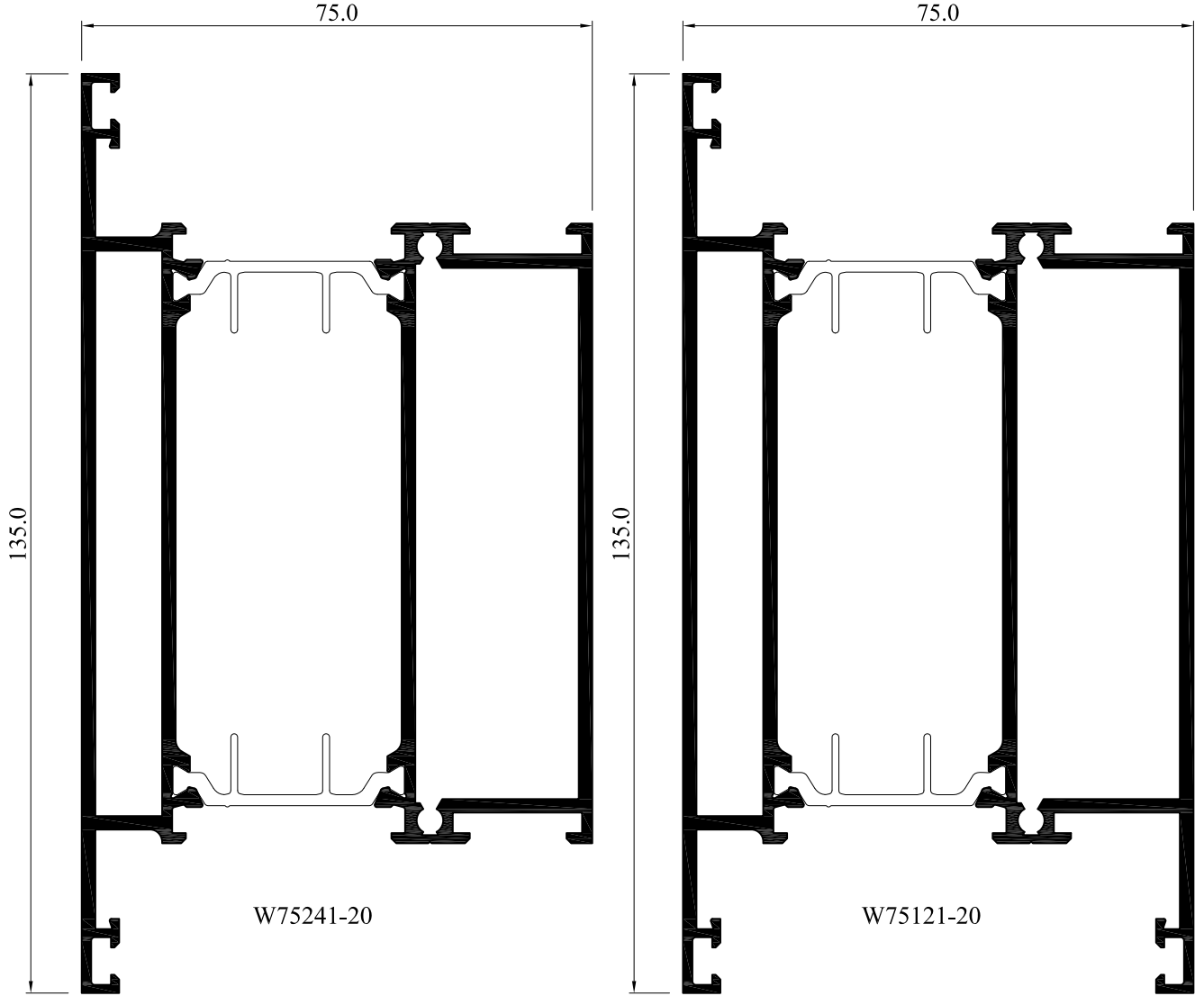
W75231-16
W75231-20



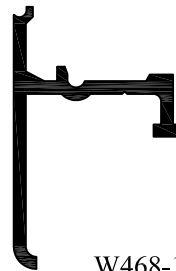
Pivot Adaptörü
W7551-16

PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x cm ⁴	I _y cm ⁴	W _x cm ³	W _y cm ³
W75211-16	1.519	T851-185 / 9.7	T851-135 / 23.9	37.78	9.81	12.29	2.80
W75211-20	1.666	T851-175 / 8.9	T851-121 / 23.5	42.73	10.33	13.95	2.96
W75221-16	1.774	T851-286 / 9.7	T851-236 / 23.9	43.65	17.82	14.01	4.46
W75221-20	1.962	T85-270 / 8.9	T85-225 / 23.5	49.87	18.92	16.15	4.73
W75231-16	2.121	T85-478 / 9.7	T851-432 / 23.9	54.53	44.68	17.35	8.94
W75231-20	2.396	T85-478 / 8.9	T851-424 / 23.5	63.40	48.13	20.21	9.62
W7551-16	1.637	-	T851-210 / 27.7	-	-	-	-

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



W465-20

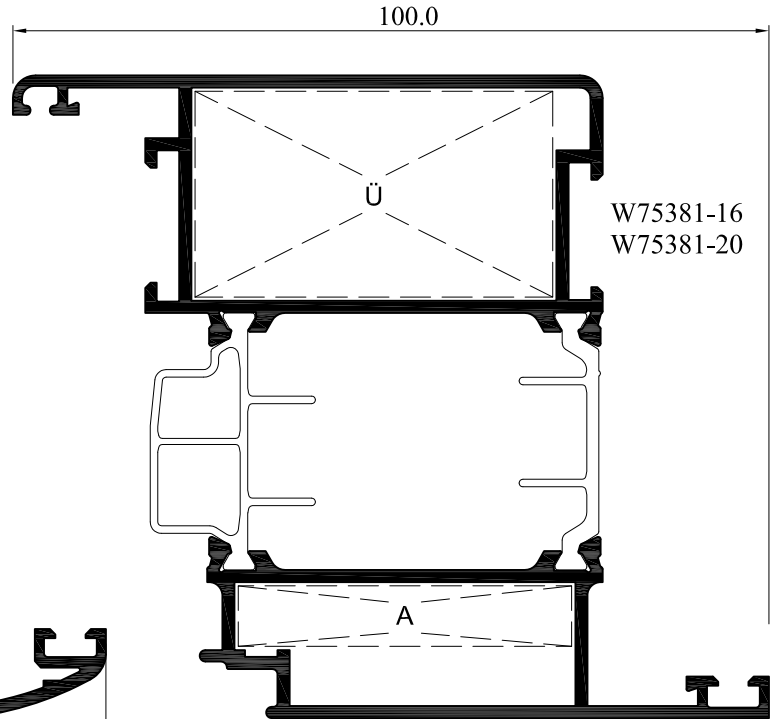
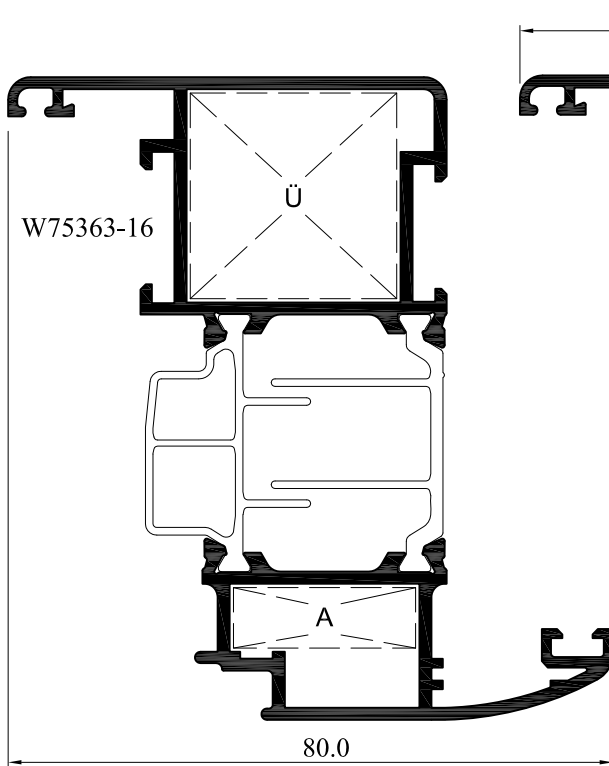
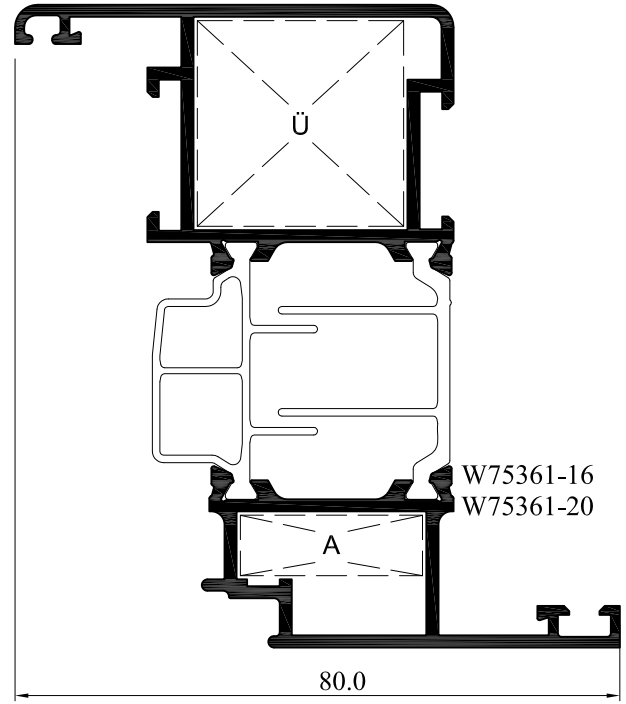
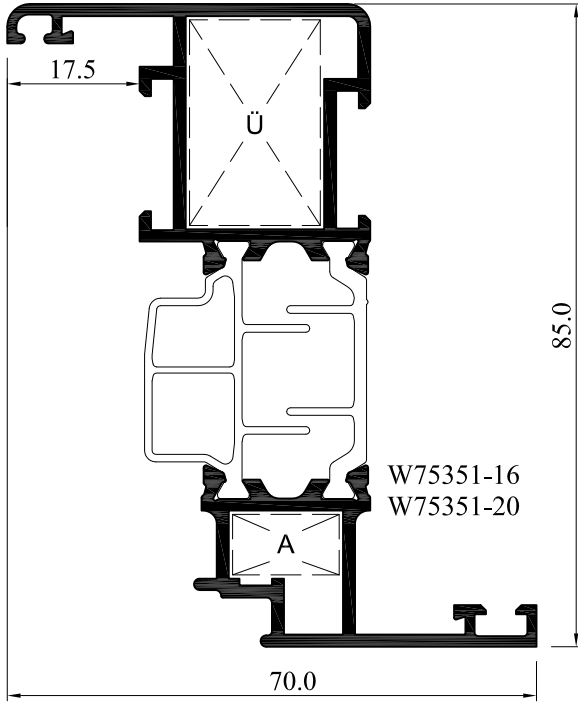


W468-16

Etek detayı için bkz. Sayfa 77

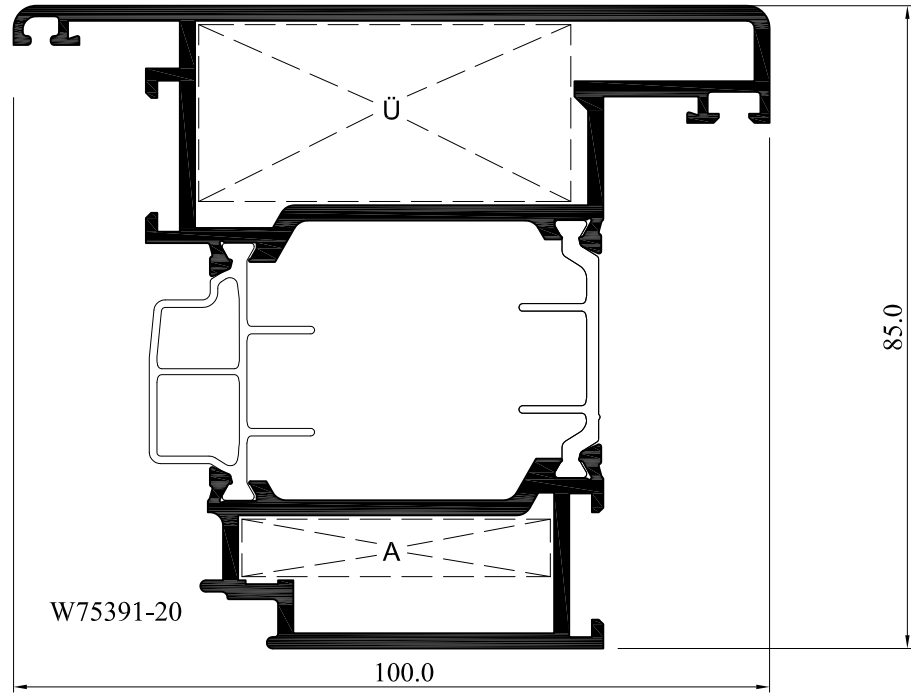
PROFİL KODU	AĞIRLIK (kg/m)	I _x cm ⁴	I _y cm ⁴	W _x cm ³	W _y cm ³
W75241-20	3.067	86.25	145.90	26.86	21.61
W75121-20	3.209	-	-	-	-
W465-20	0.439	-	-	-	-
W468-16	0.295	-	-	-	-

KANATLAR / SASH PROFILES

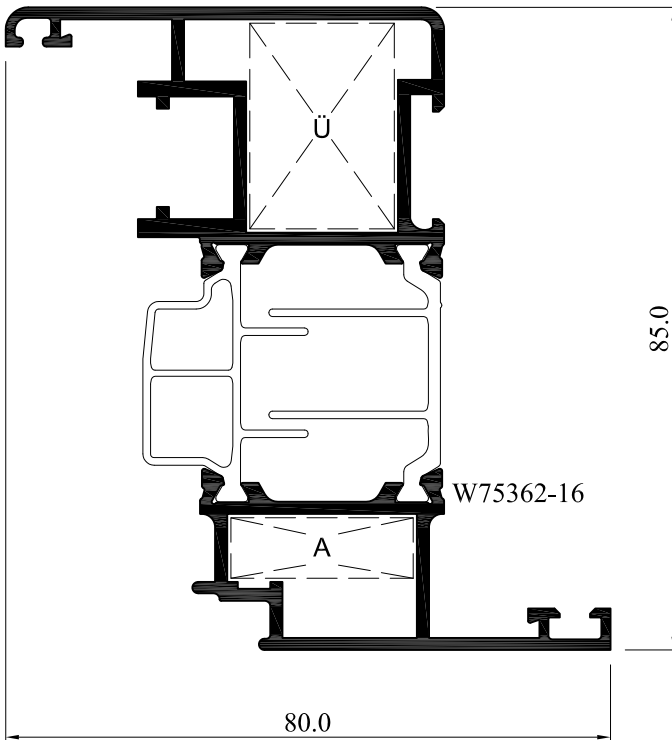


PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I x	I y
W75351-16	1.621	T851-146 / 8.5	T851-175 / 27.7	-	-
W75351-20	1.821	T851-140 / 8.1	T851-165 / 26.9	-	-
W75361-16	1.843	T851-246 / 8.5	T851-280 / 27.7	-	-
W75361-20	2.078	T851-240 / 8.1	T85-270 / 26.9	-	-
W75363-16	1.885	T851-246 / 8.5	T851-280 / 27.7	-	-
W75381-16	2.174	T851-445 / 8.5	T85-478 / 27.7	-	-
W75381-20	2.504	T851-437 / 8.1	T85-468 / 26.9	-	-

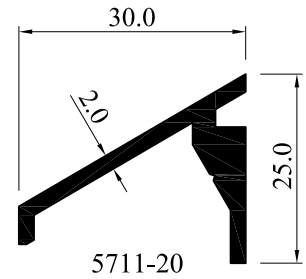
DIŞA AÇILIR KAPI KANADI / *DOOR SASH PROFILE OPENING OUTSIDE*



PVC AKSESUAR İÇİN KANAT
SASH PROFILE FOR PVC ACCESSORIES

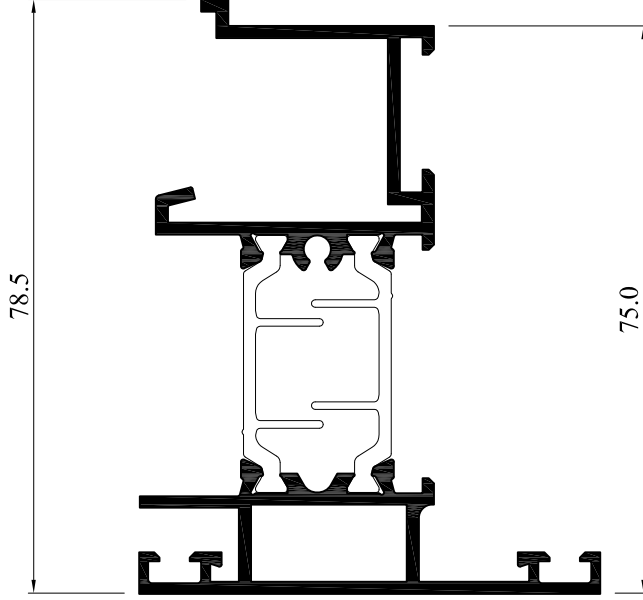


DAMLALIK PROFİLİ
WINDOWSILL PROFILE



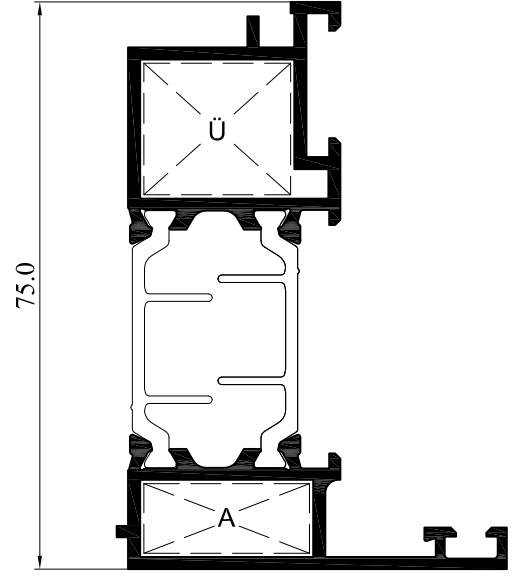
PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x cm ⁴	I _y cm ⁴
W75362-16	1.929	T851-246 / 8.5	T851-196 / 27.7	-	-
W75391-20	2.667	T851-412 / 8.1	T85-498 / 23.9	-	-
5711-20	0.404	-	-	-	-

ÇİFT KANAT ADAPTÖRÜ
ADJOINING SASH ADAPTER



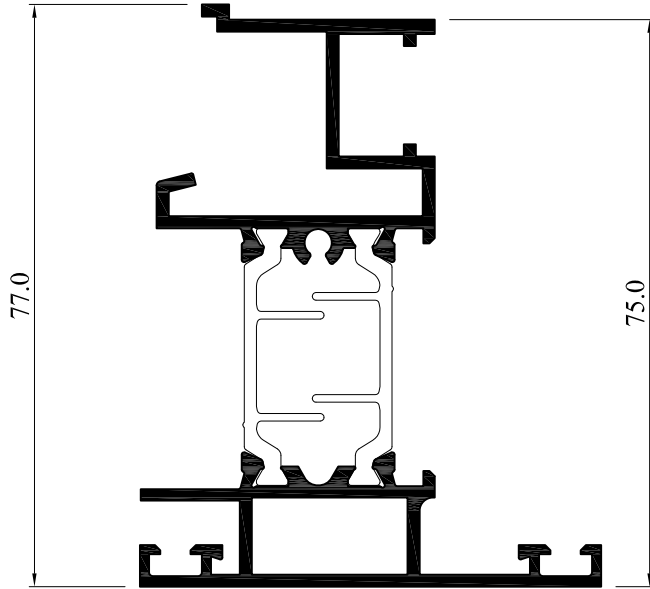
W7552-16

DIŞA AÇILIR KAPI ADAPTÖRÜ
OUTSIDE OPENING DOOR ADAPTER



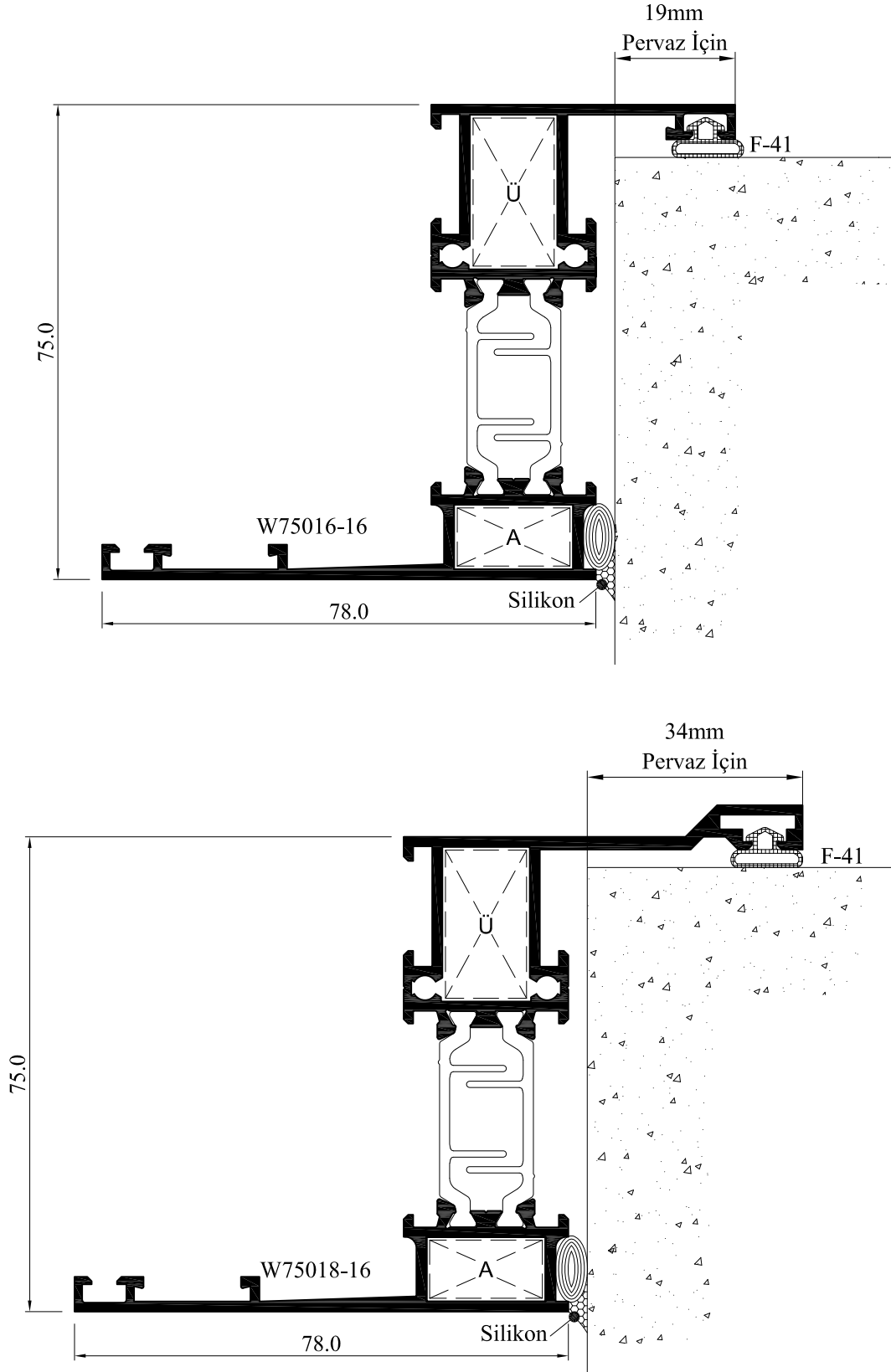
W7553-16

ÇİFT KANAT ADAPTÖRÜ (PVC AKSESUAR)
ADJOINING SASH ADAPTER (PVC ACCESSORIES)



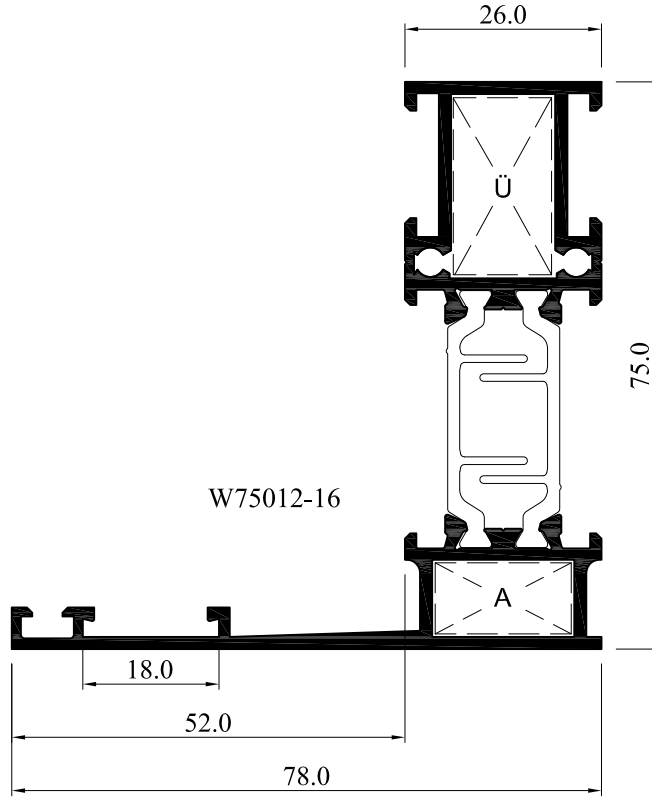
W75521-16

PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	Ix cm4	Iy cm4	Wx cm ³	Wy cm ³
W7552-16	1.528	-	-	-	-	-	-
W7553-16	1.374	T85-225 / 9.7	T85-225 / 17.9	31.60	8.36	9.95	4.92
W75521-16	1.564	-	-	-	-	-	-

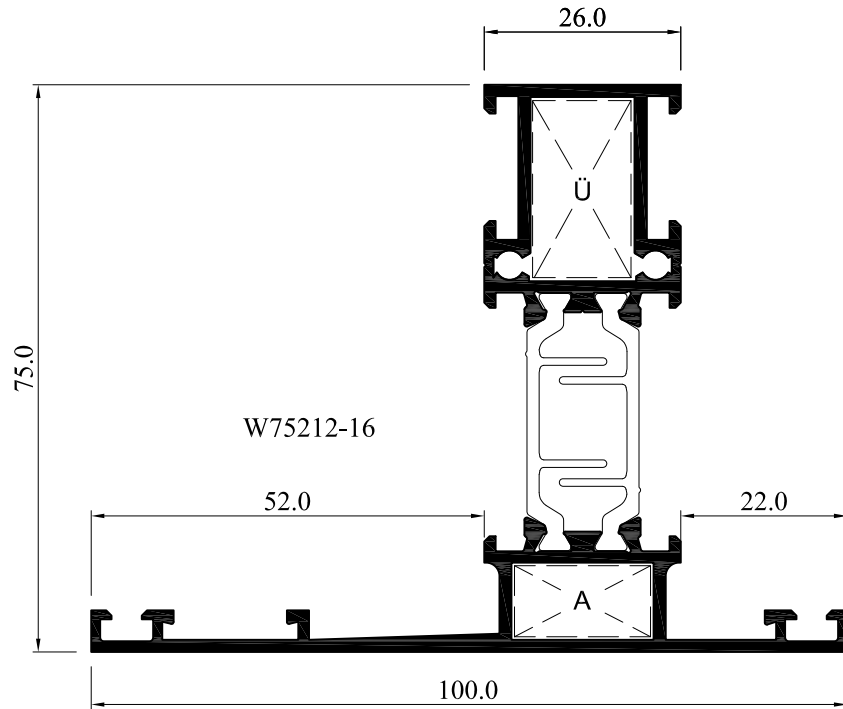
GİZLİ KANAT PERVAZLI KASALARI / *HIDDEN FRAME PROFILE*


PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x cm ⁴	I _y cm ⁴	W _x cm ³	W _y cm ³
W75016-16	1.690	T851-185 / 9.7	T851-135 / 23.9	47.52	25.77	14.49	6.48
W75018-16	1.822	T851-185 / 9.7	T851-135 / 23.9	56.87	35.88	15.95	6.93

GİZLİ KANAT KASASI / *FRAME PROFILE FOR HIDDEN SASH*

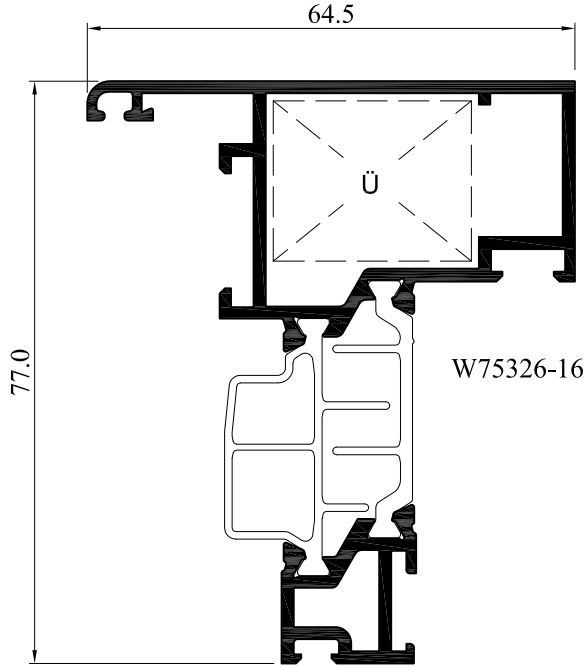


GİZLİ KANAT ORTA KAYIT / *TRANSOM-MULLION PROFILE FOR HIDDEN SASH*

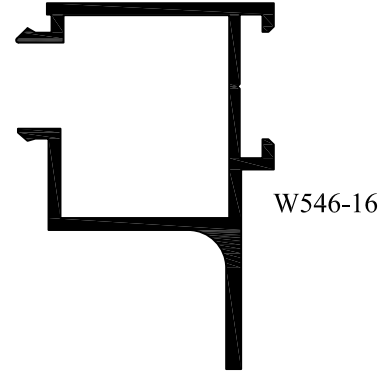


PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	I _x cm ⁴	I _y cm ⁴	W _x cm ³	W _y cm ³
W75012-16	1.564	T851-185 / 9.7	T851-135 / 23.9	39.34	20.85	13.13	10.54
W75212-16	1.697	T851-185 / 9.7	T851-135 / 23.9	42.98	25.82	15.33	6.52

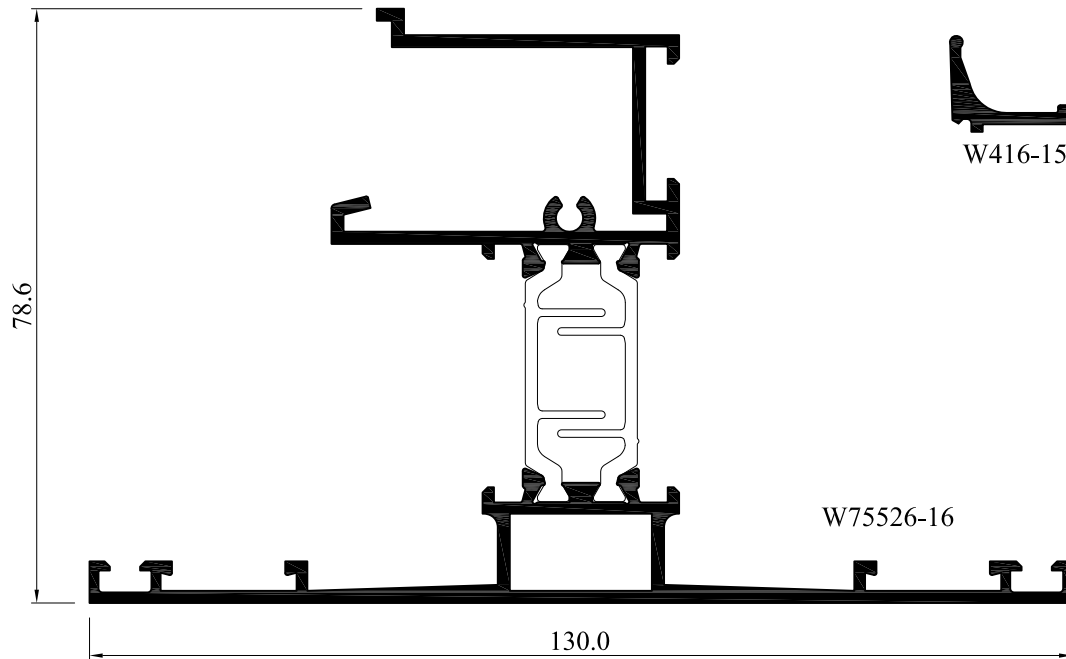
GİZLİ KANAT PROFİLİ
HIDDEN SASH PROFILE



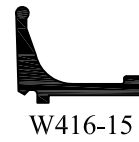
GİZLİ KANATTA SABİT CAM ADAPTÖRÜ
FIX GLASS ADAPTOR FOR HIDDEN SASH



GİZLİ KANAT ÇİFT KANAT ADAPTÖRÜ
ADJOINING SASH ADAPTER FOR HIDDEN SASH

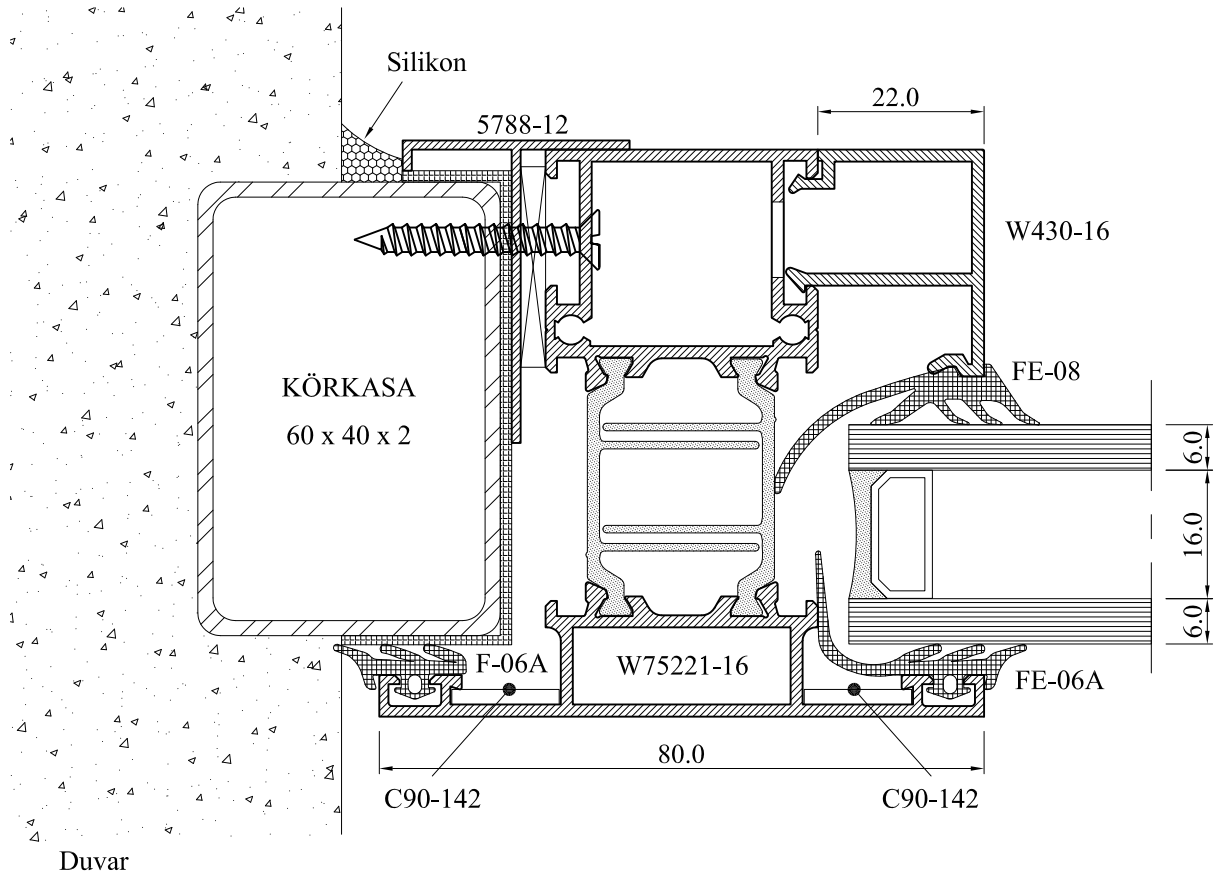
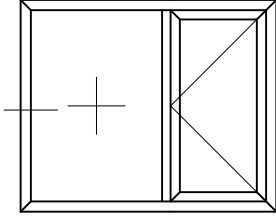


GİZLİ KANAT İÇİN CAM ÇITASI
GLASS HOLDER FOR HIDDEN SASH

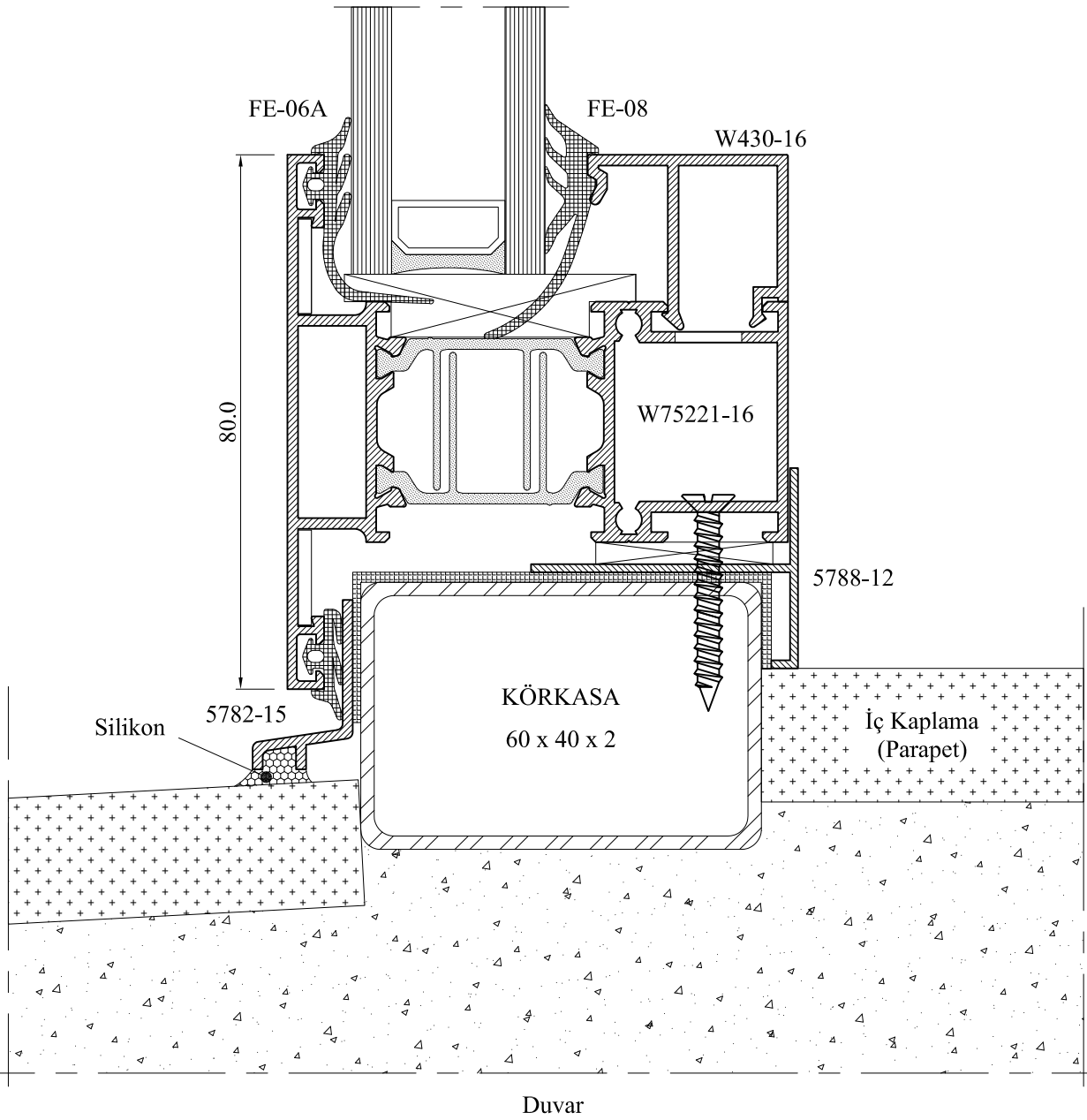
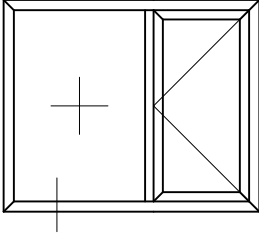


PROFİL KODU	AĞIRLIK (kg/m)	ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)	ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm)
W75326-16	1.538	-	T851-280 / 22.7
W416-15	0.142	-	-
W546-16	0.592	-	-
W75526-16	1.967	-	-

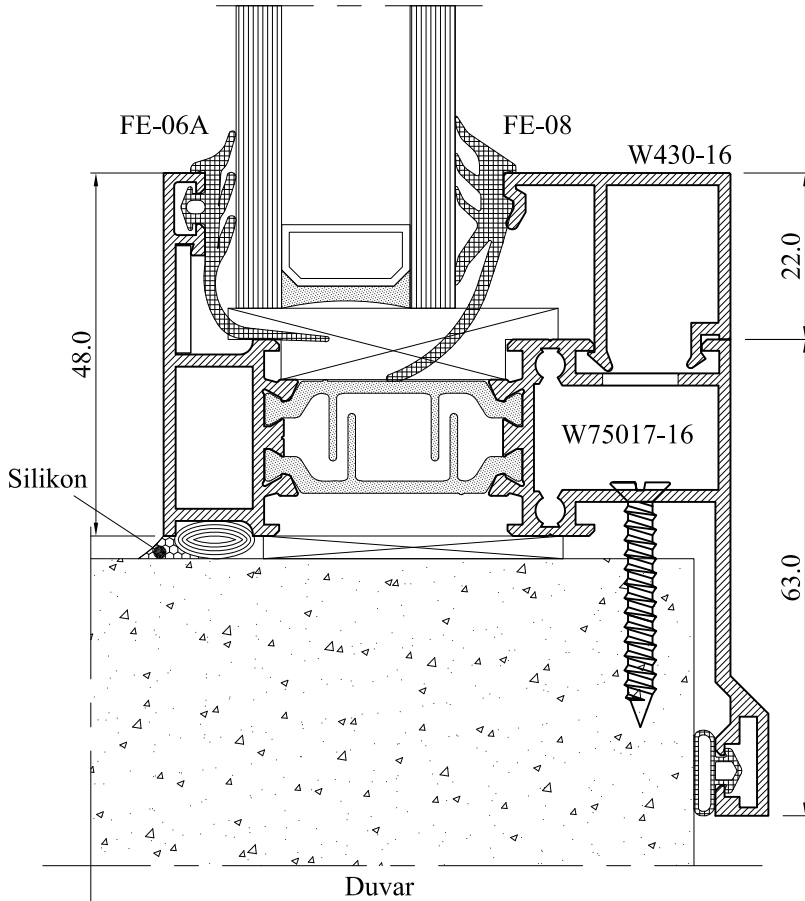
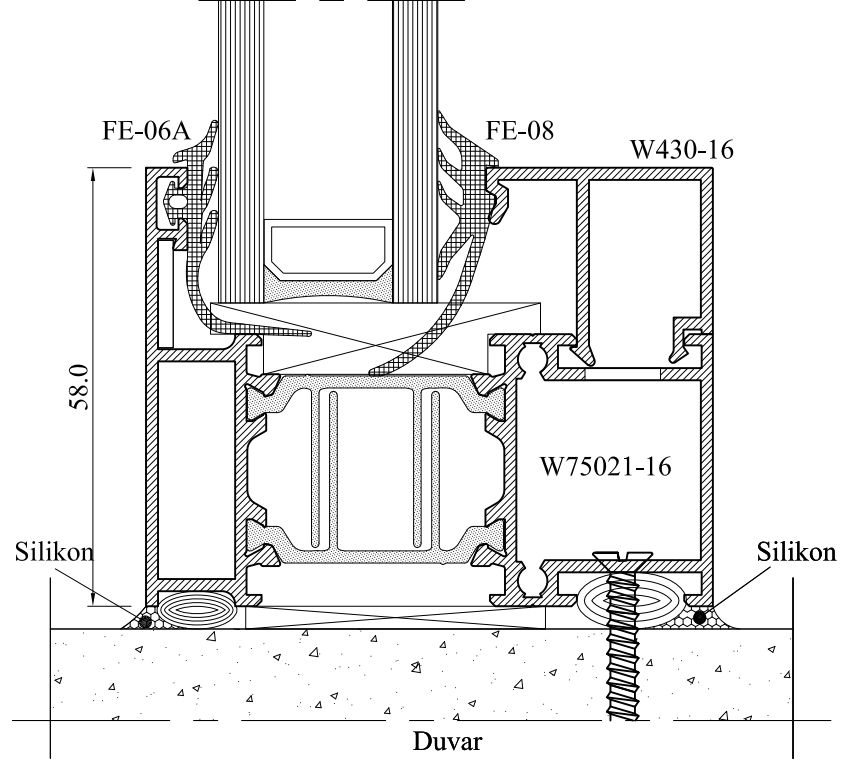
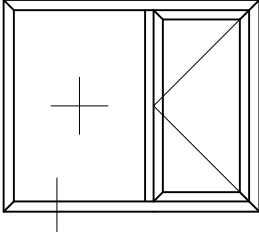
Standart Açılım Pencere
Sabit - Yan Duvar Birleşim Detayı



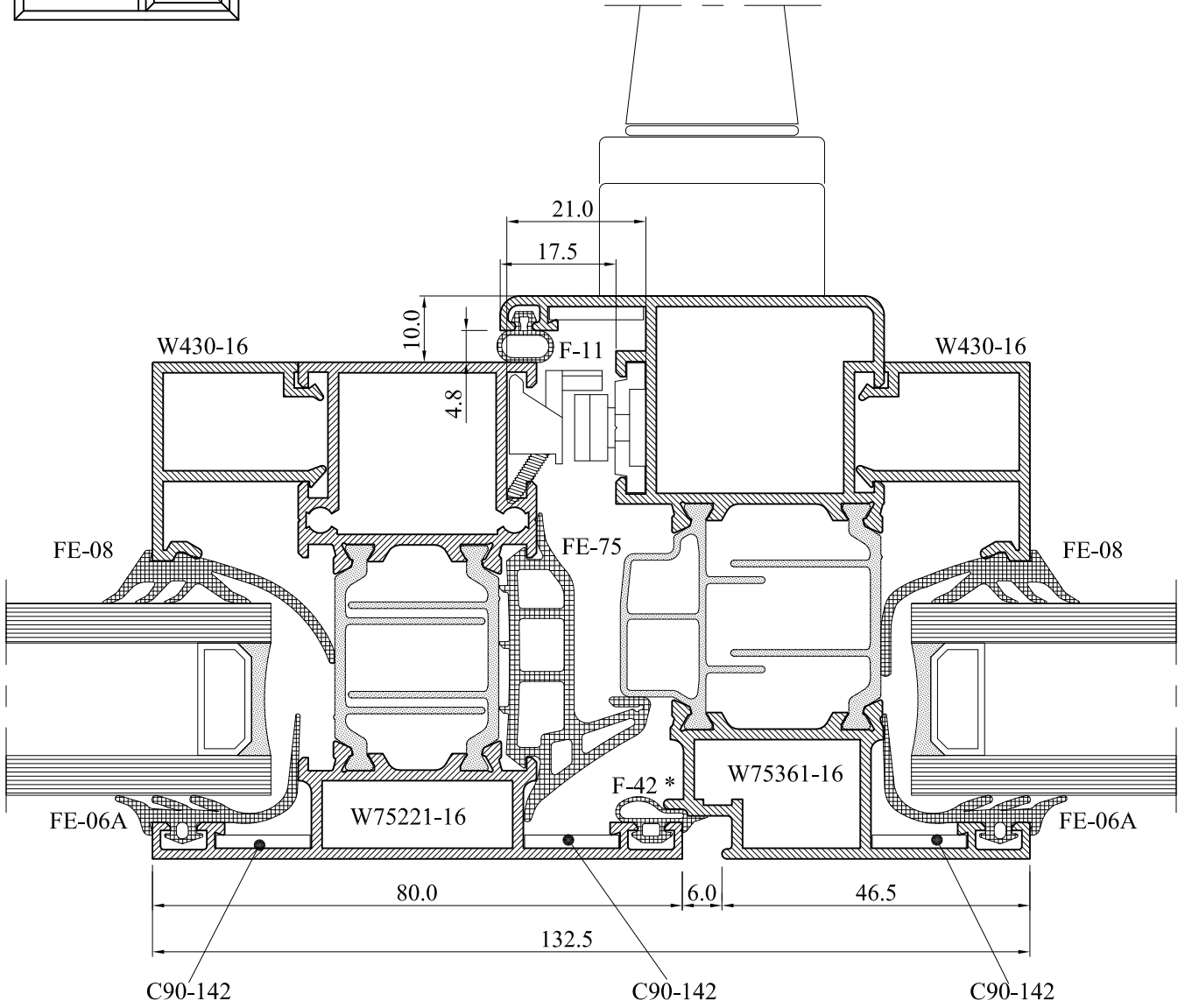
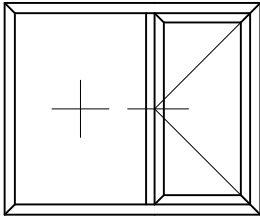
Standart Açılım Pencere
Sabit - Alt Duvar Birleşim Detayı (Parapet Detayı)



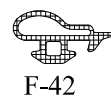
Standart Açılım Pencere
Sabit - Alt Duvar Birleşim Detay Alternatifleri



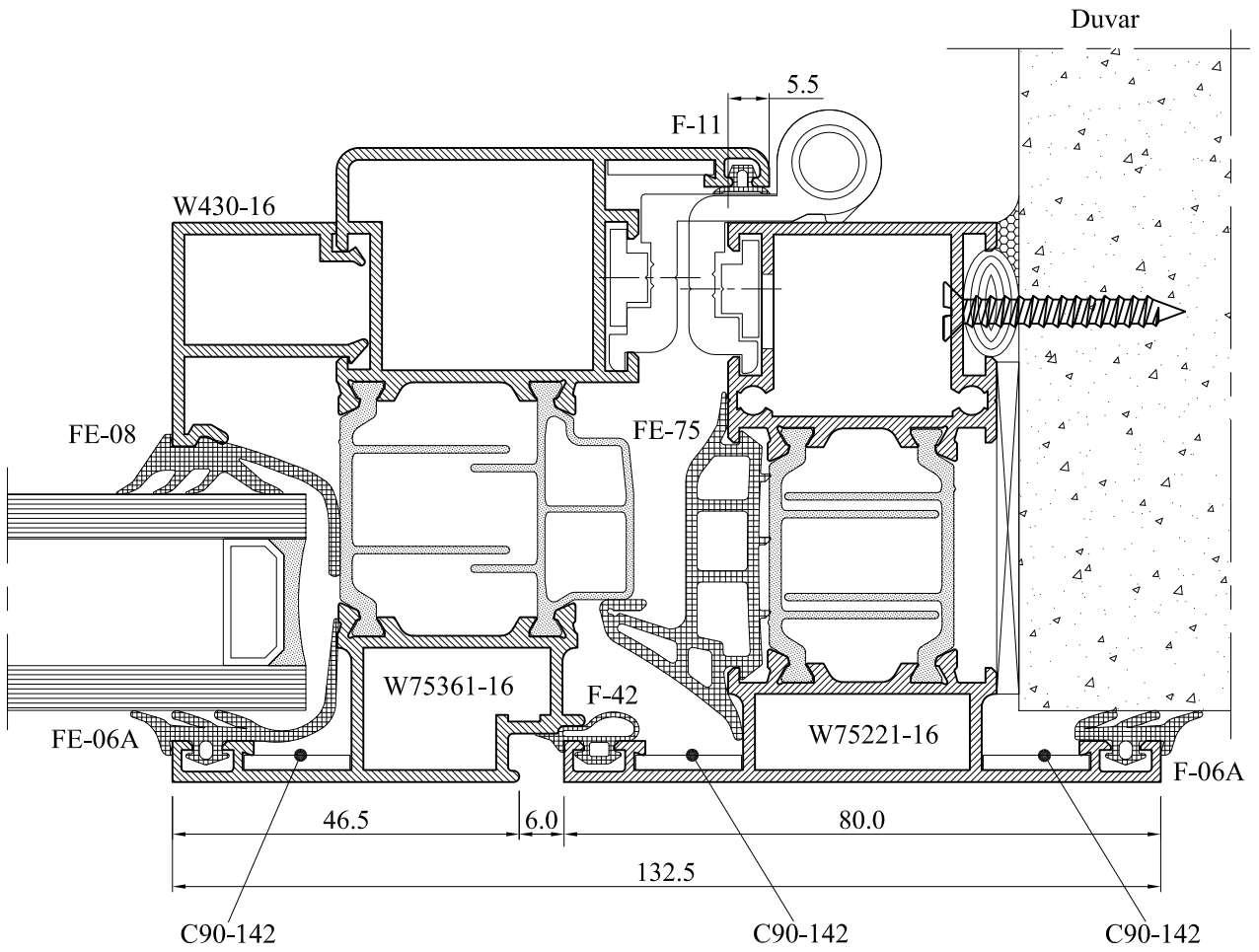
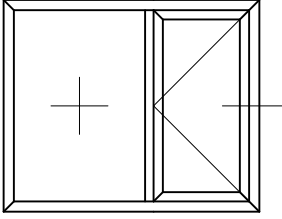
Standart Açılım Pencere
Sabit ve Açılır Kanat İspanyolet Detayı

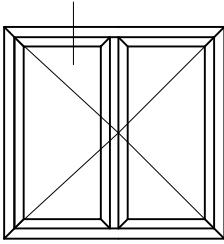


* F-42 FİTİLİ F-41 FİTİLİNE ALTERNATİFTİR

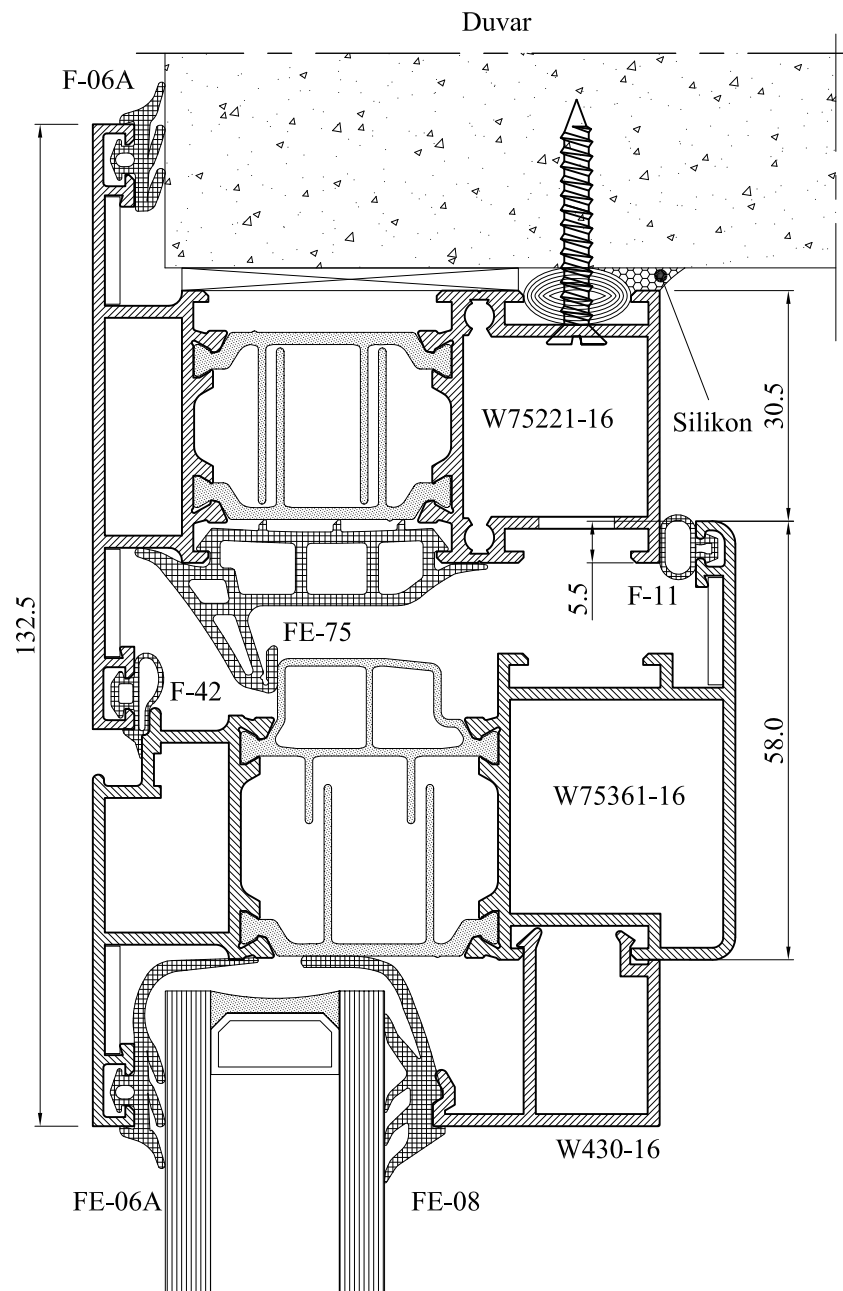


Standart Açılım Pencere
Açılır Kanat - Duvar Birleşim Detayı

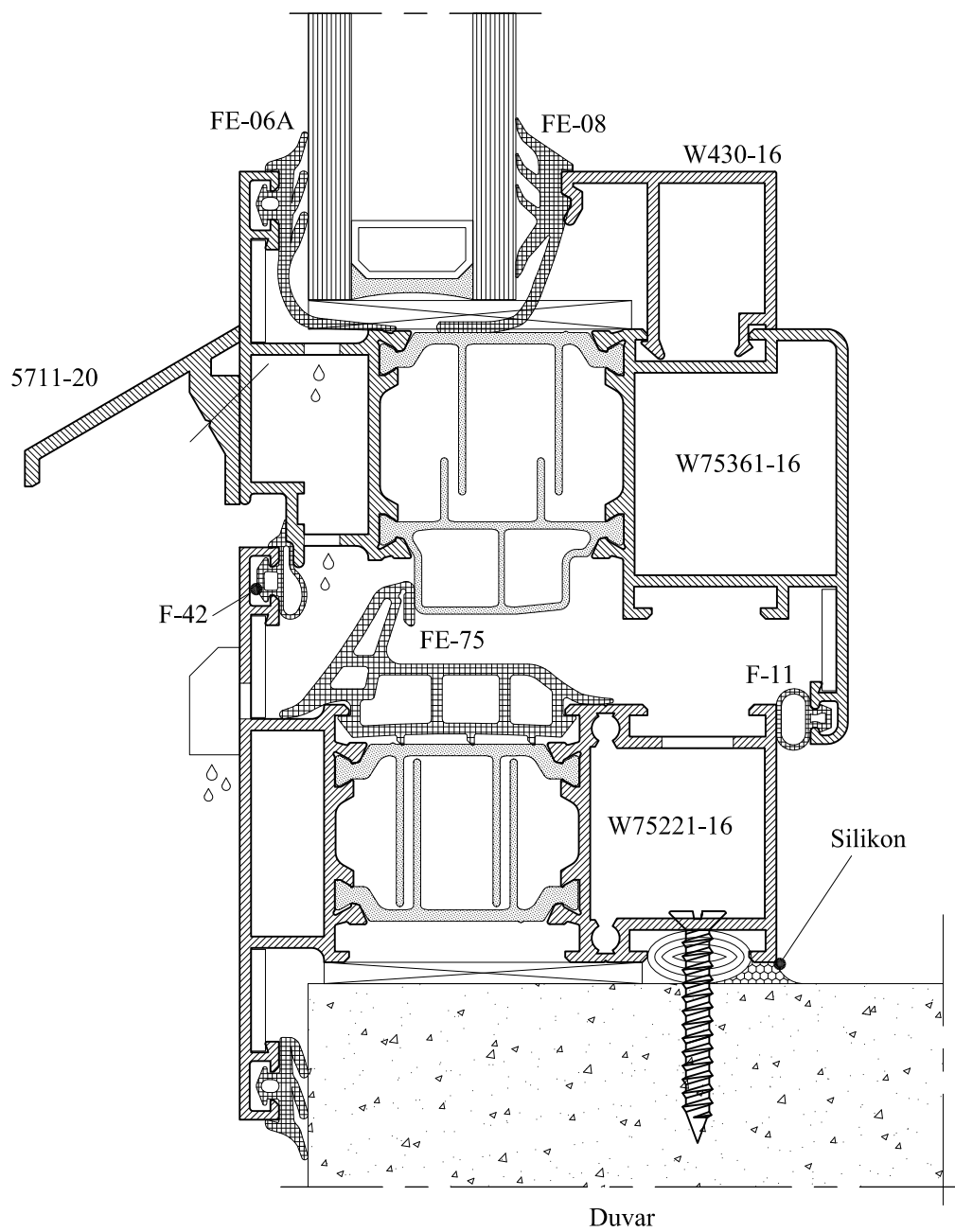
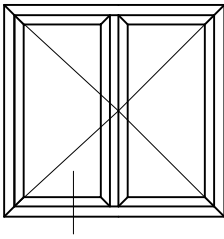




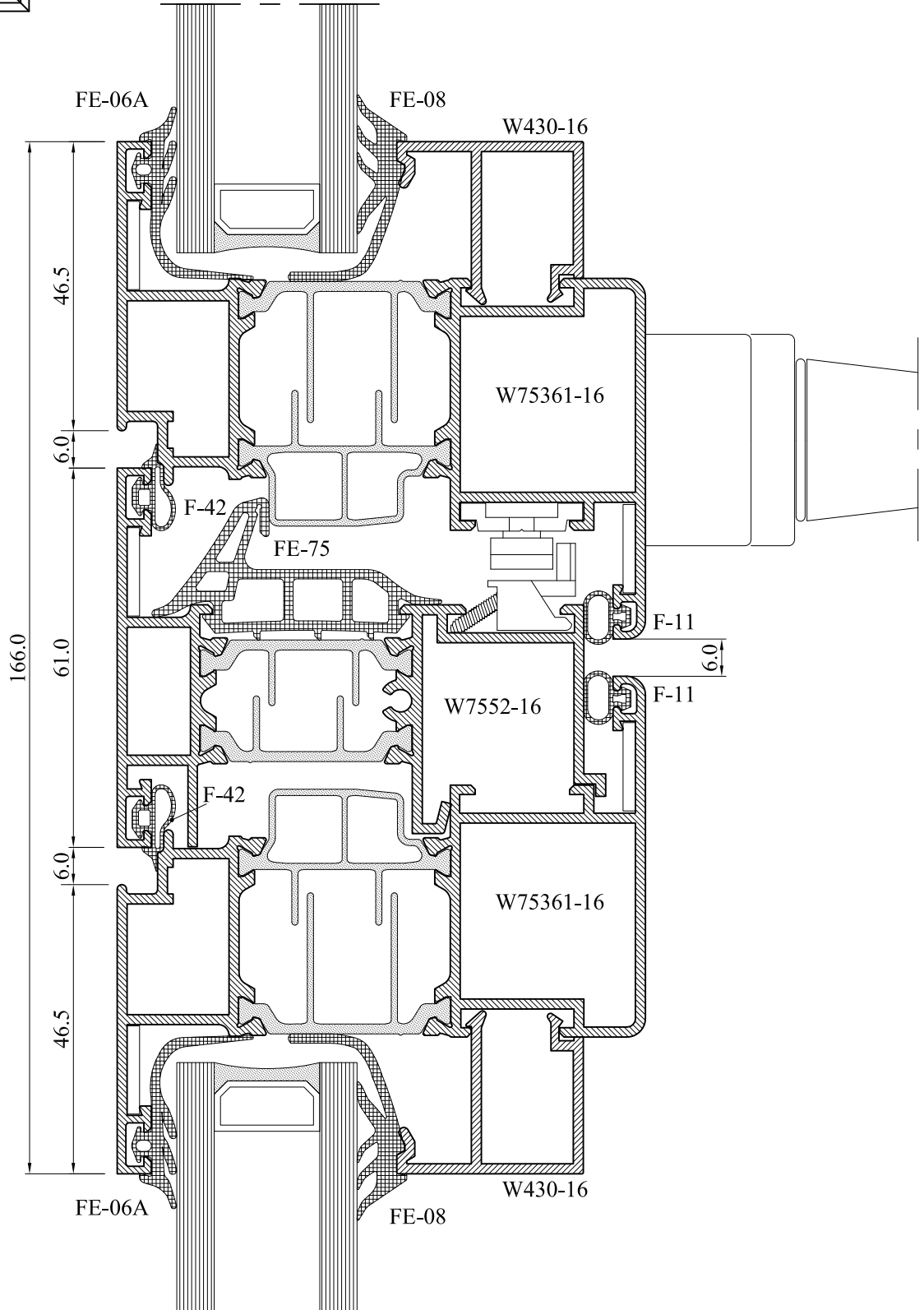
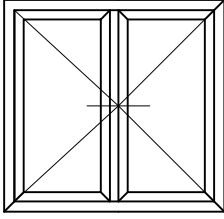
İçe Açılır Çift Kanat Pencere Üst Duvar Bitiş Detayı



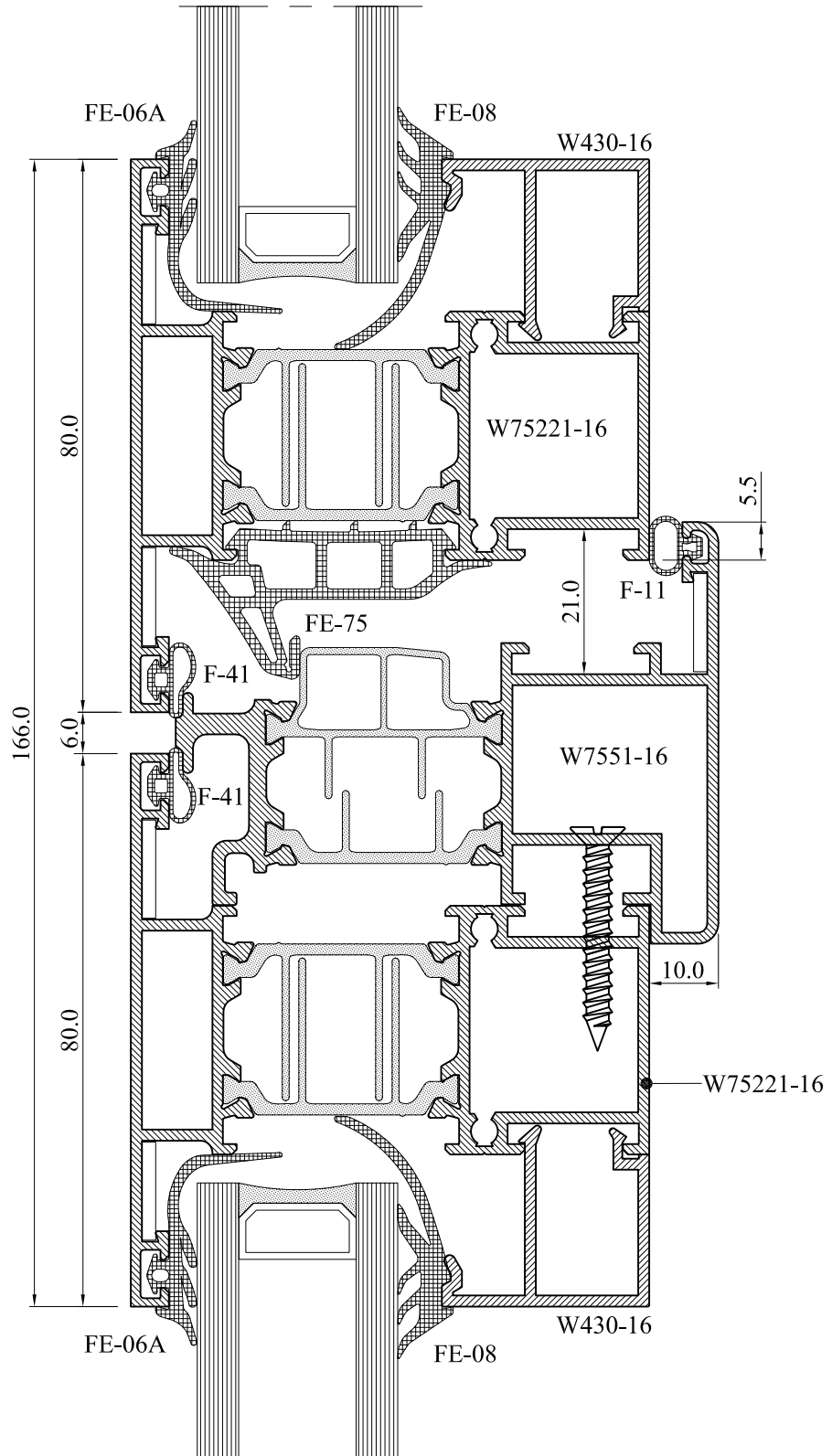
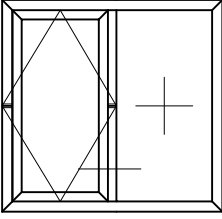
İçe Açılır Çift Kanat Pencere Alt Duvar Bitiş Detayı



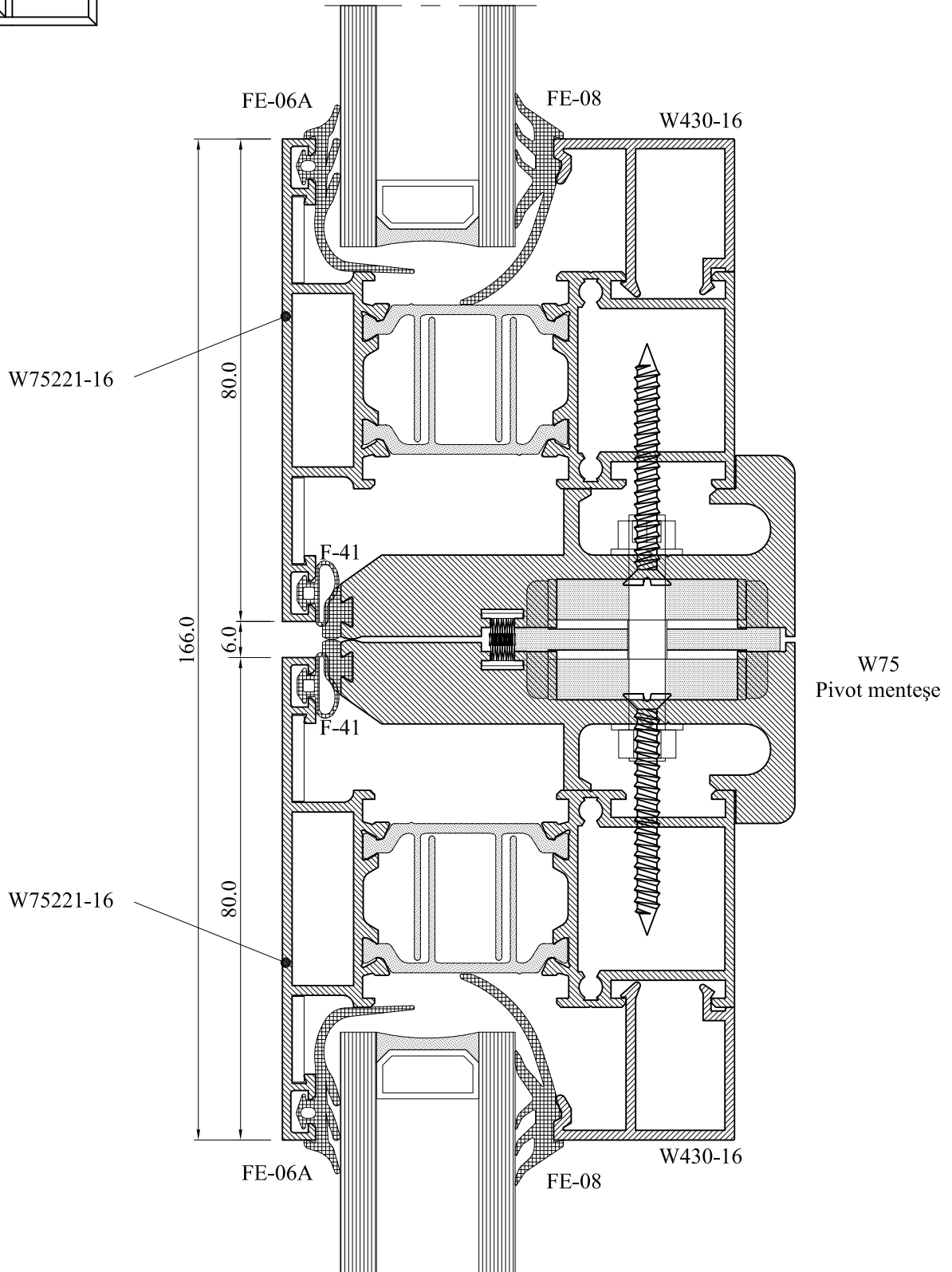
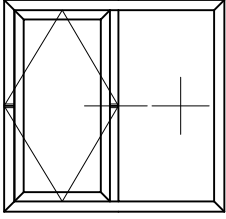
İçe Açılır Çift Kanat Pencere
Orta Birleşim Detayı



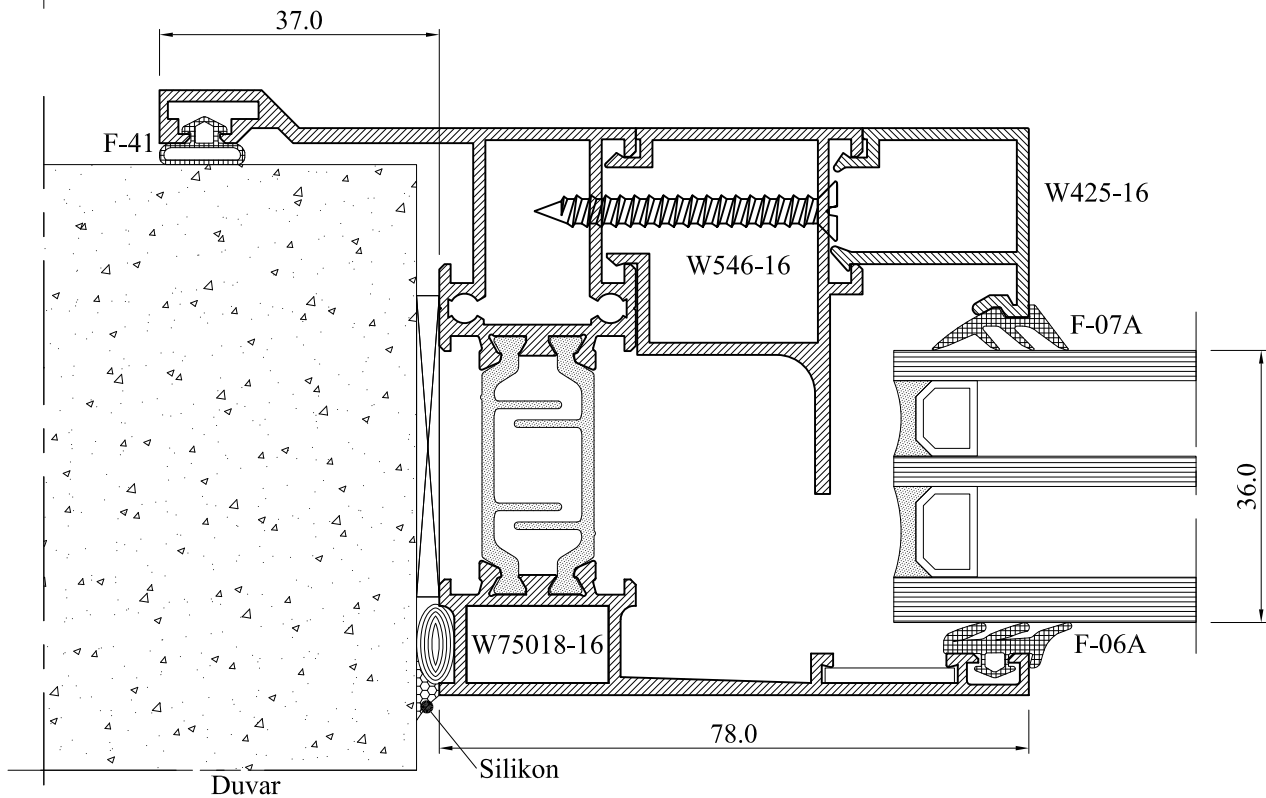
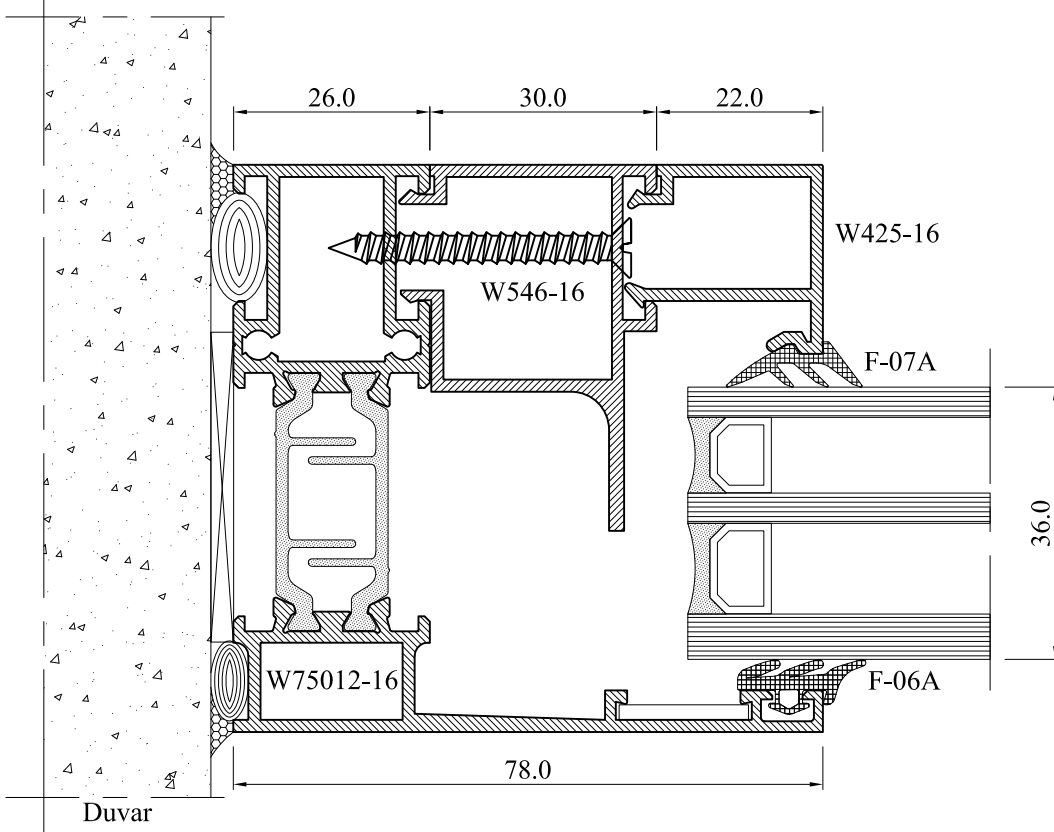
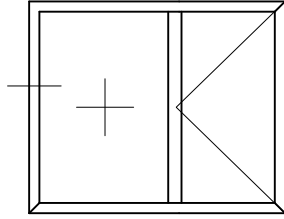
Pivot Açılım Adaptör Detayı



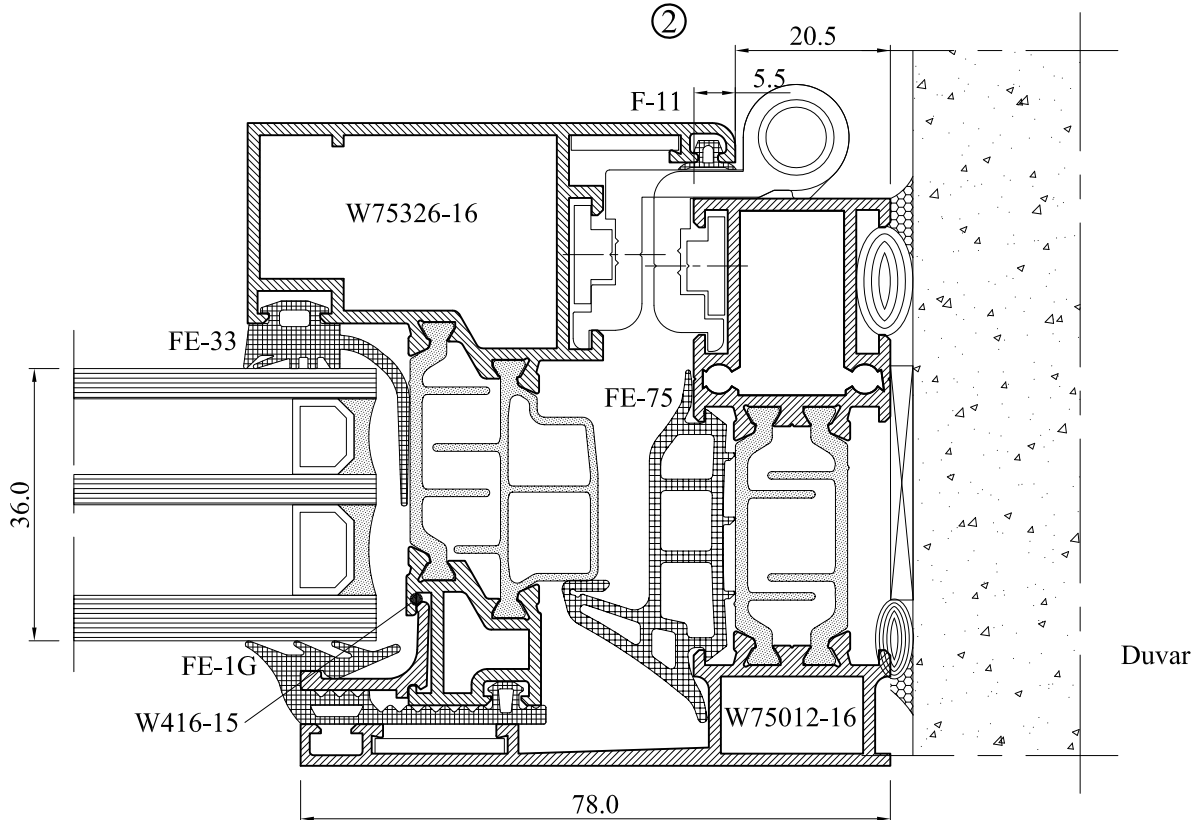
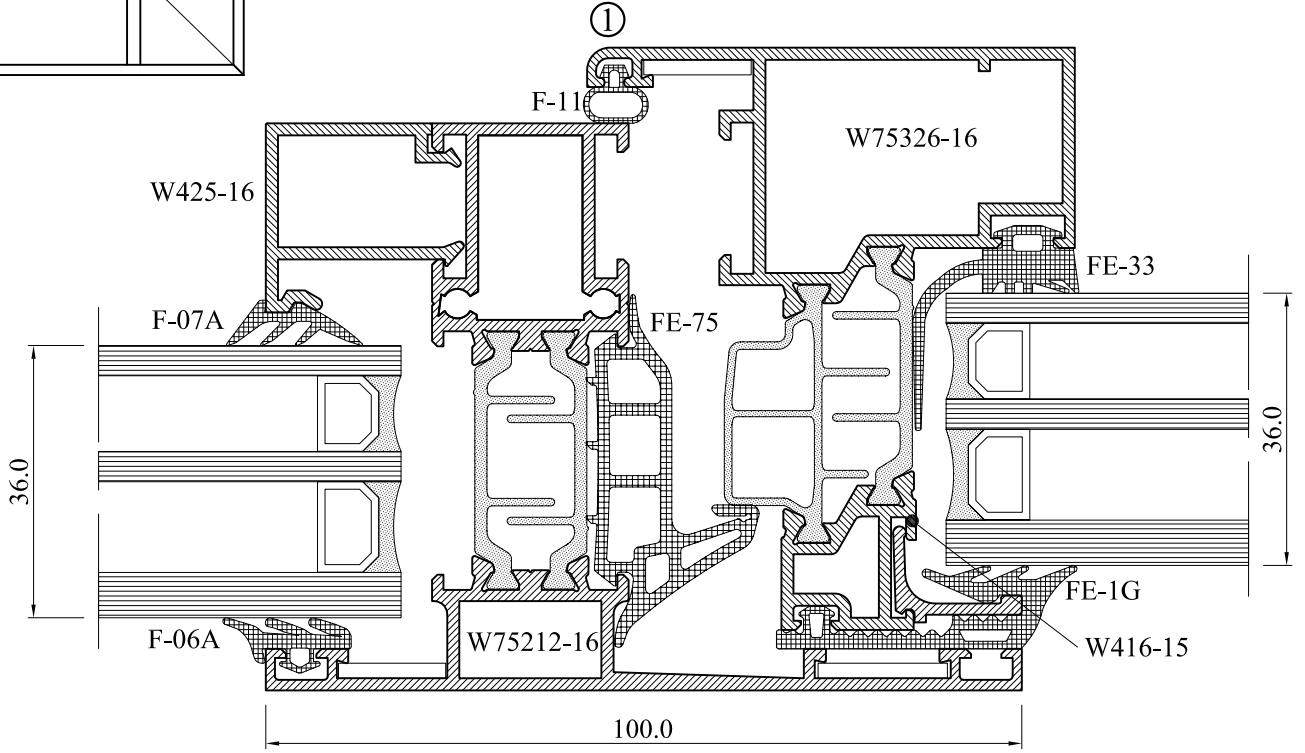
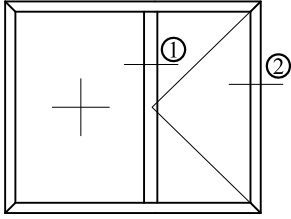
Pivot Açılım Menteşe Detayı



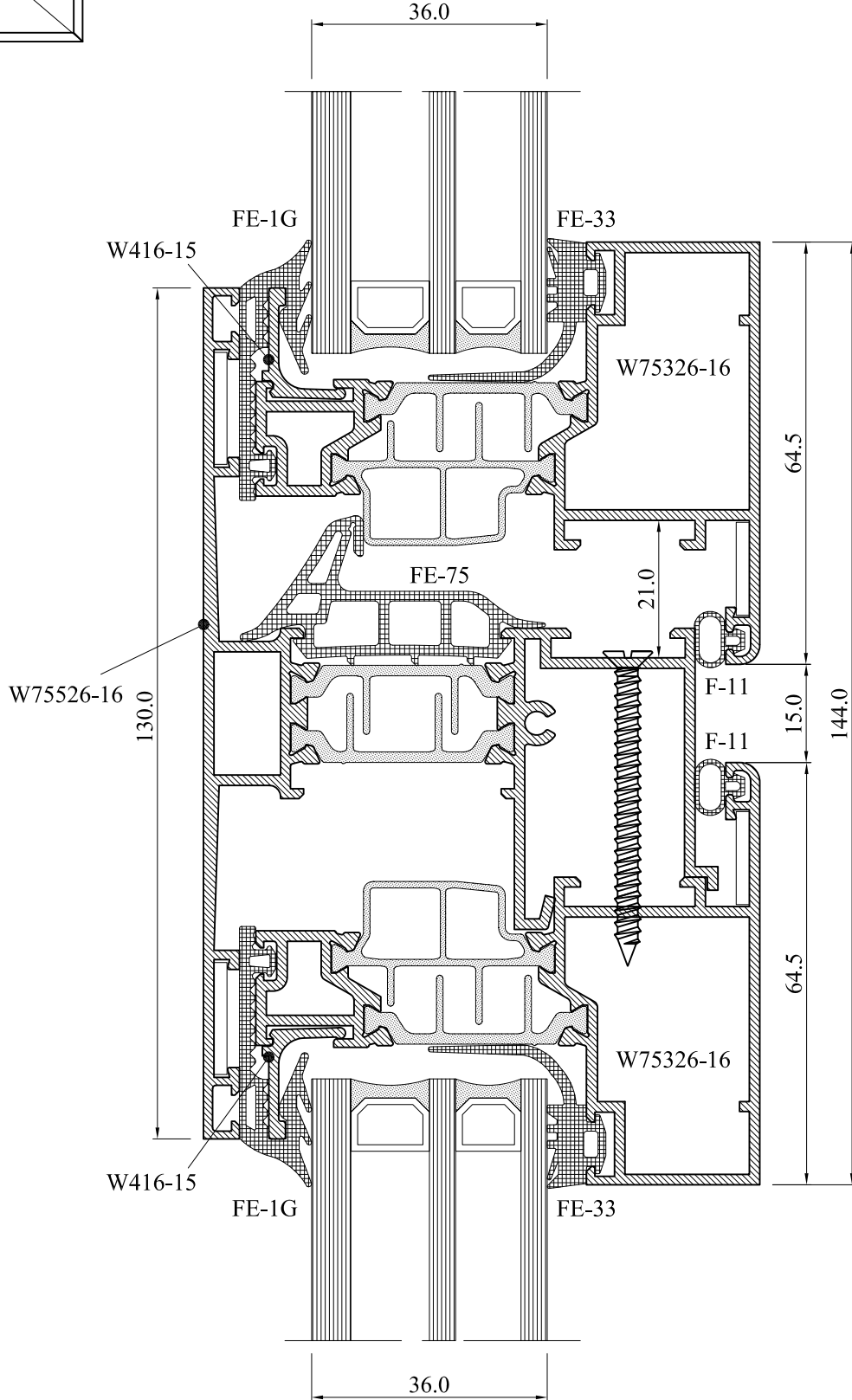
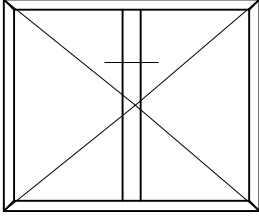
- 1)- Gizli Kanat Sabit - Yan Duvar Birleşim Detayı (Düz Kasa İle)
 2)- Gizli Kanat Sabit - Yan Duvar Birleşim Detayı (Pervazlı Kasa İle)



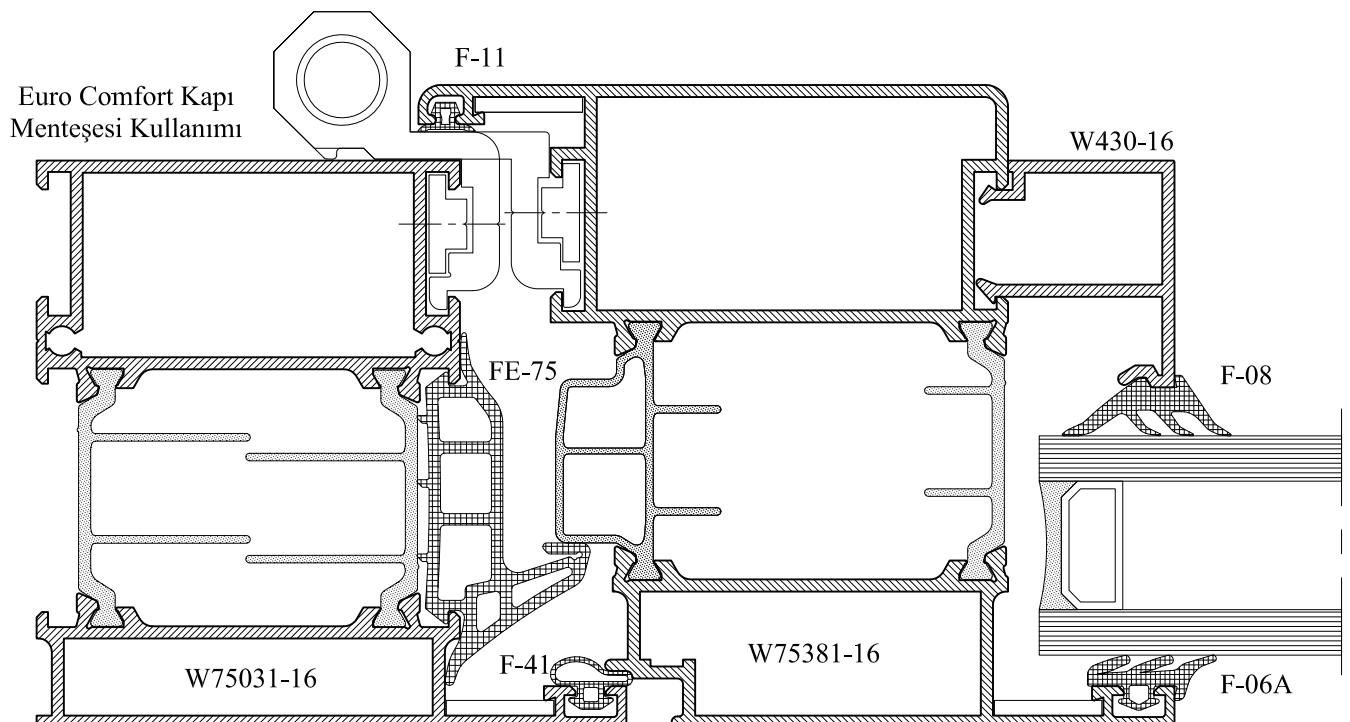
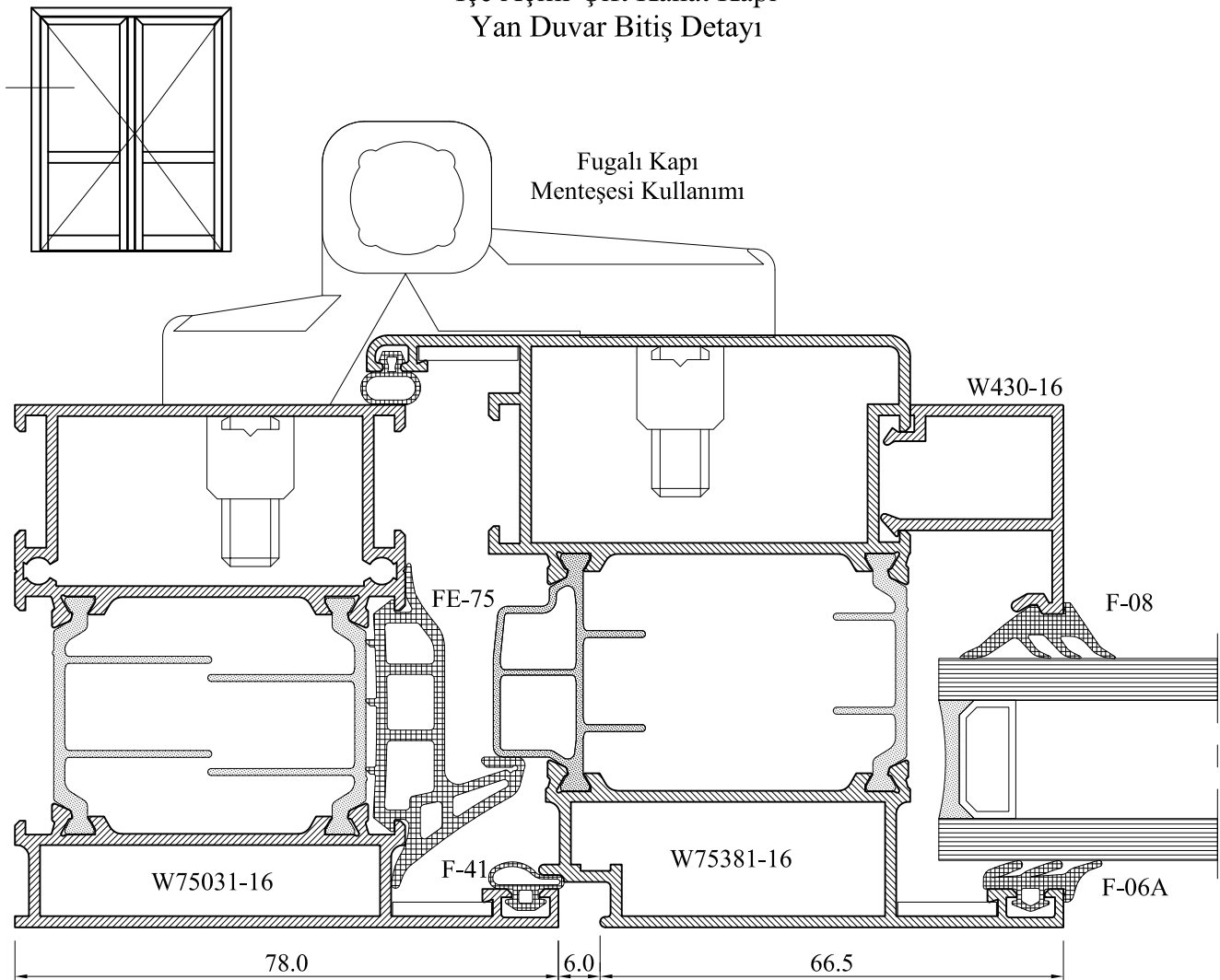
- 1)- Gizli Kanat Sabit ve Açılır Kanat Birleşim Detayı
2)- Gizli Kanat Açılır Kanat - Duvar Birleşim Detayı

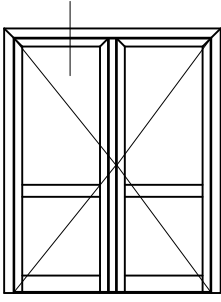


Gizli Kanat Orta Kayıtsız Çift Kanat Pencere
Orta Birleşim Detayı

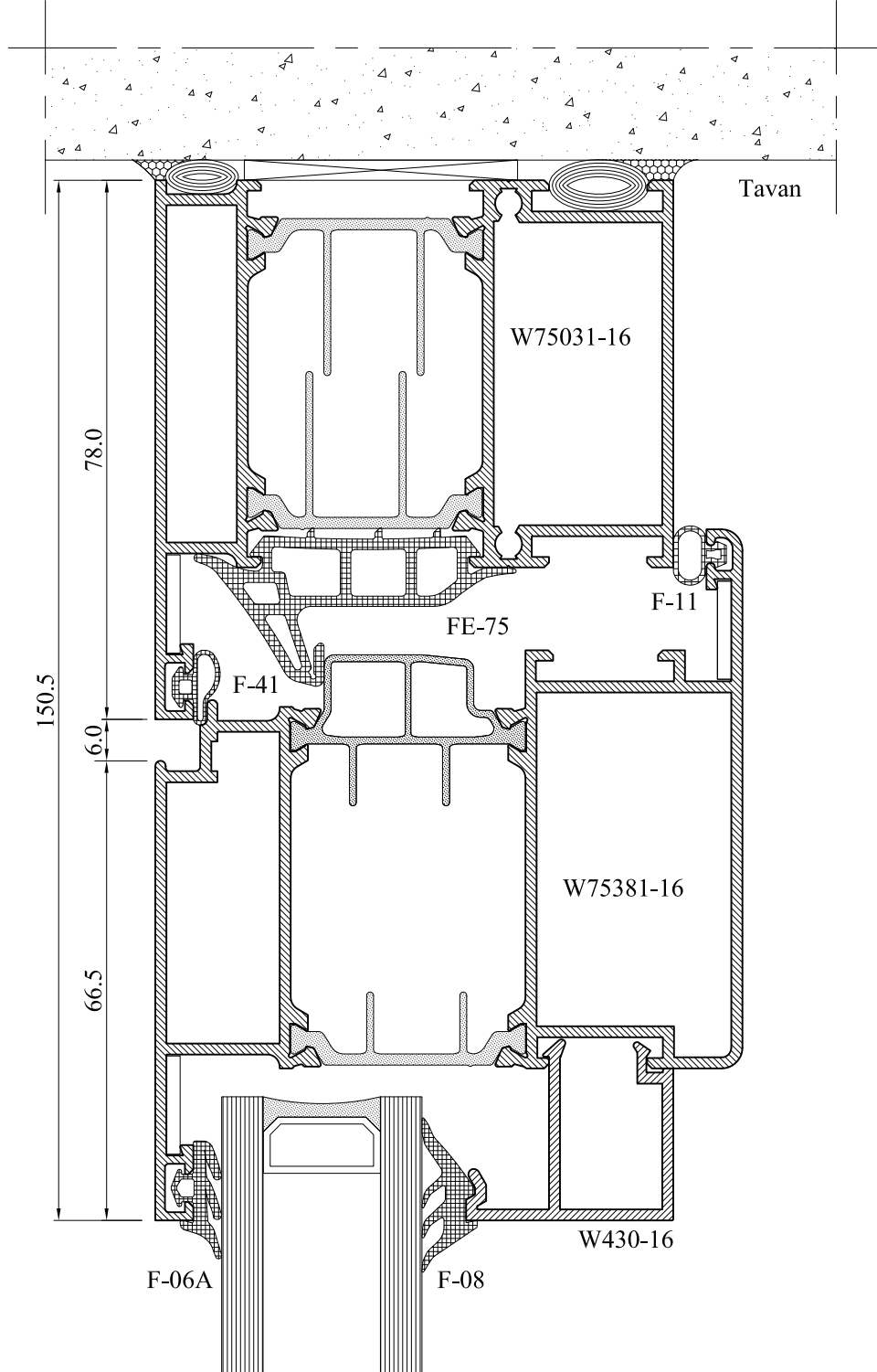


İçe Açılır Çift Kanat Kapı Yan Duvar Bitiş Detayı

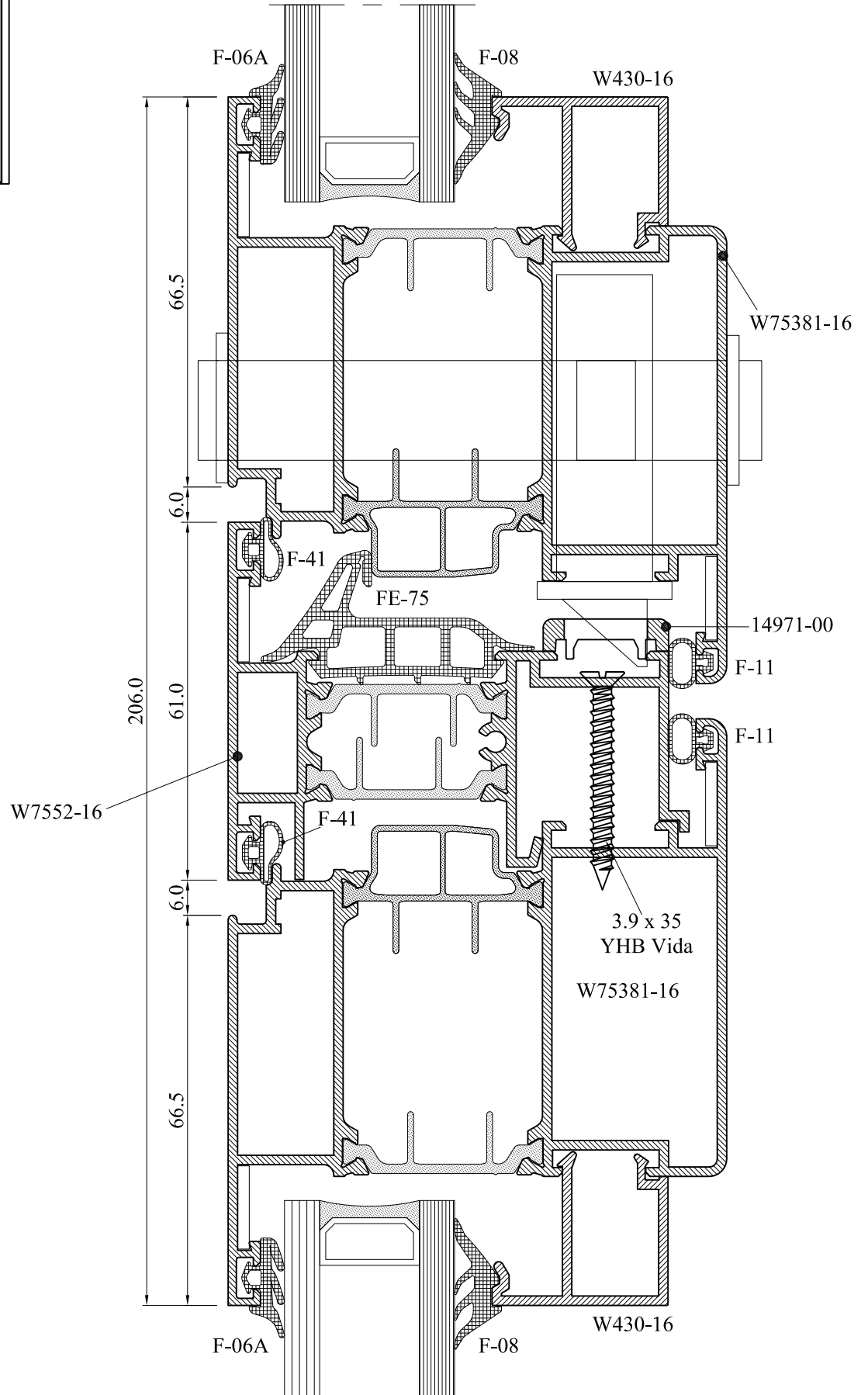
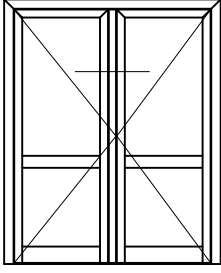


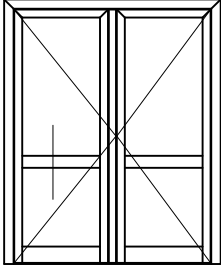


İçe Açılır Çift Kanat Kapı
Üst Duvar Bitiş Detayı

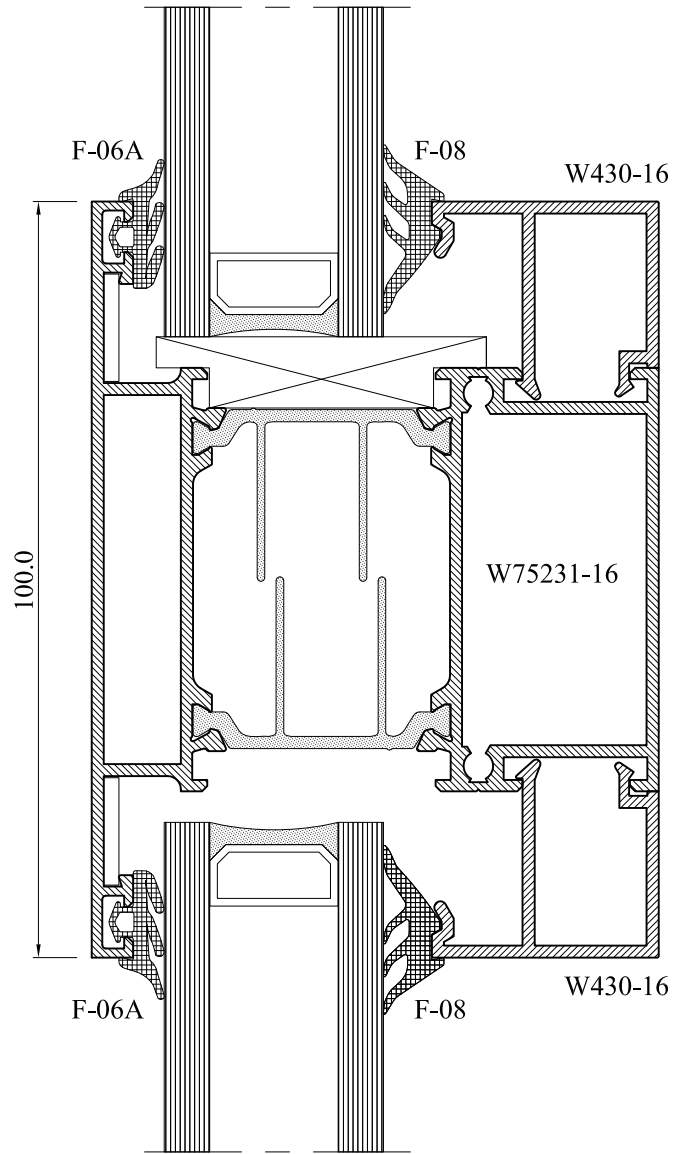


İçe Açılır Çift Kanat Kapı Orta Birleşim Detayı

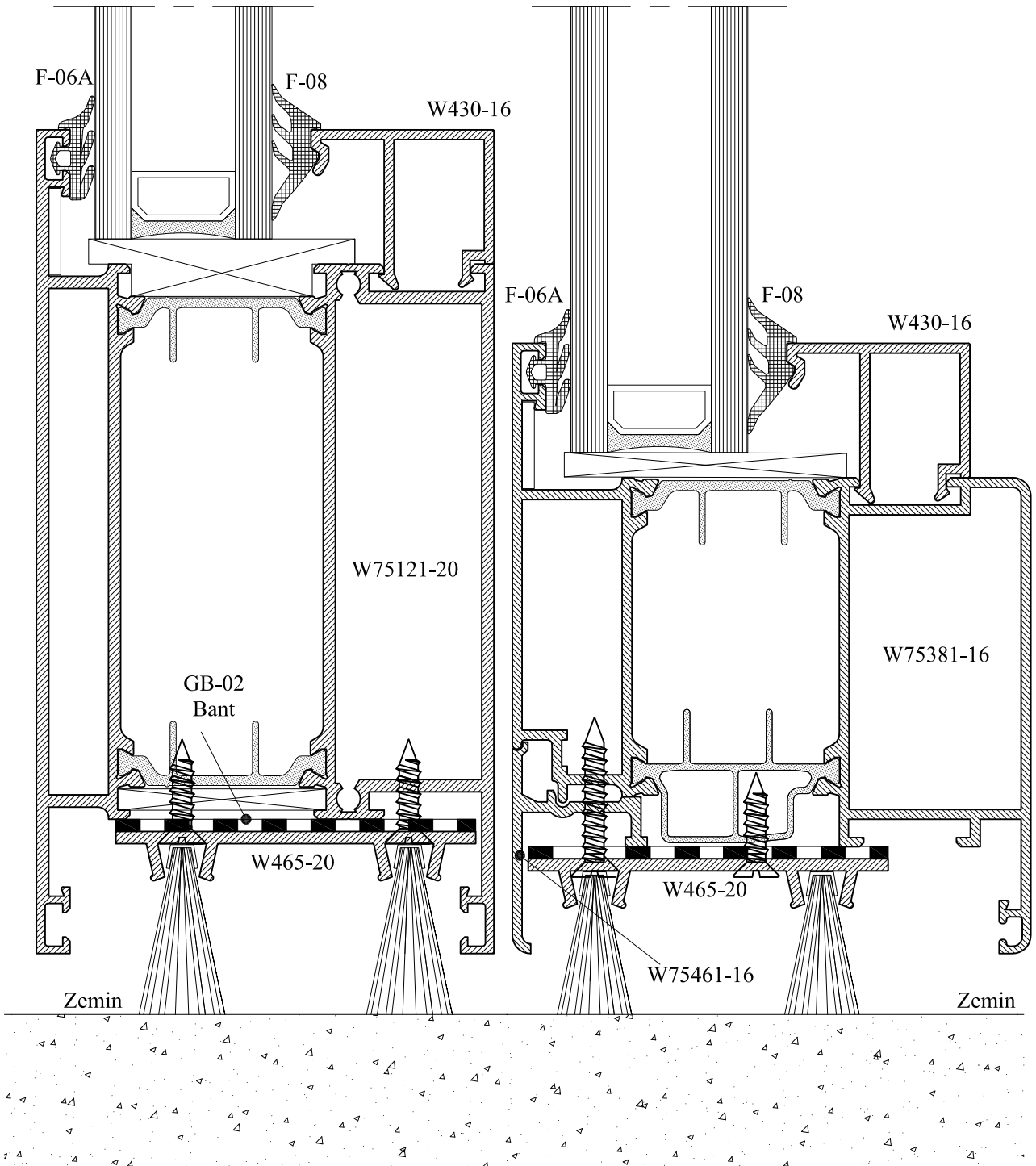
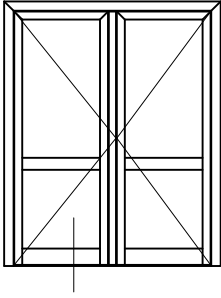




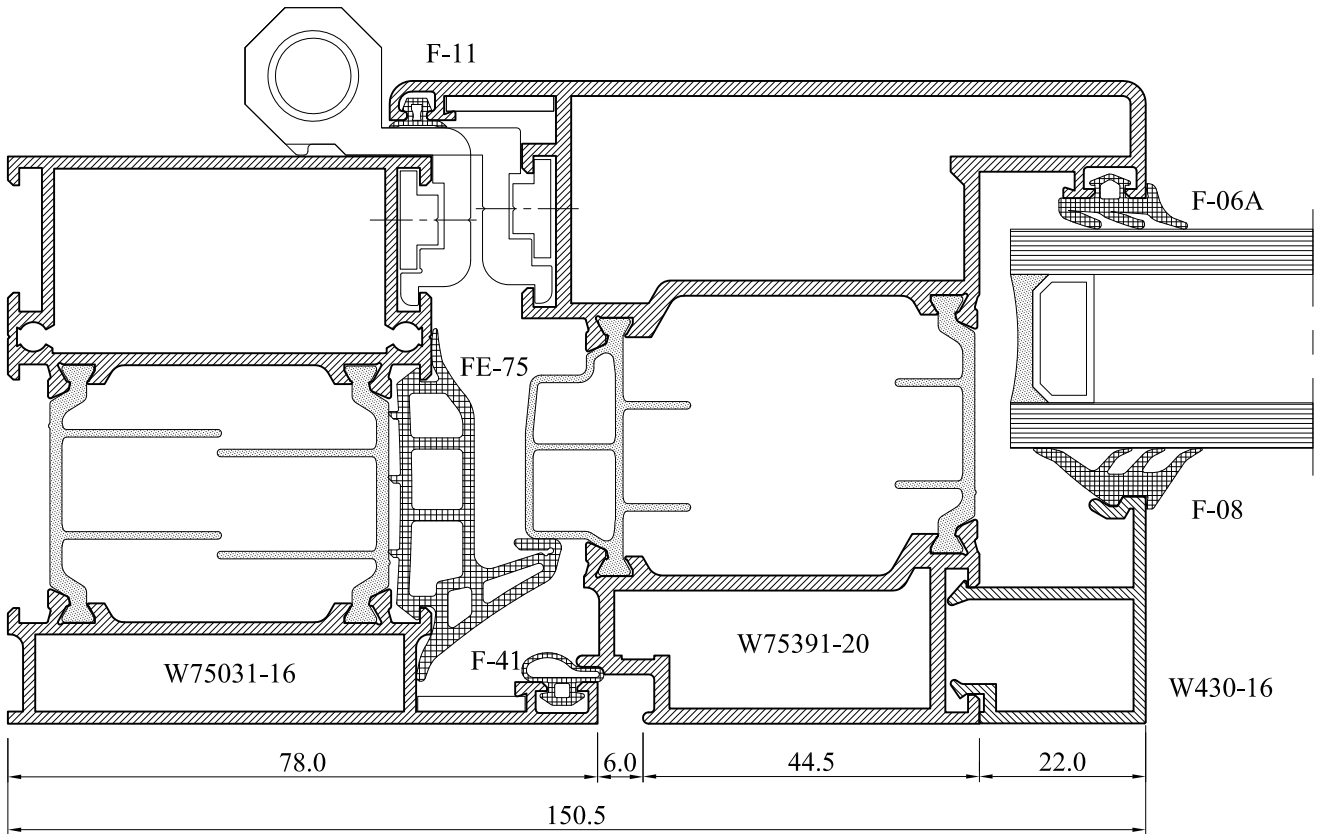
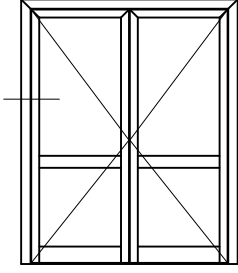
İçe Açılır Çift Kanat Kapı
Orta Kayıt Detayı

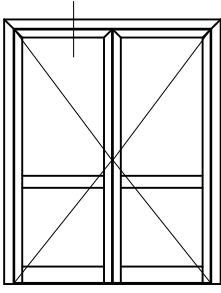


İçe Açılır Çift Kanat Kapı
Etek Detayı Alternatifleri

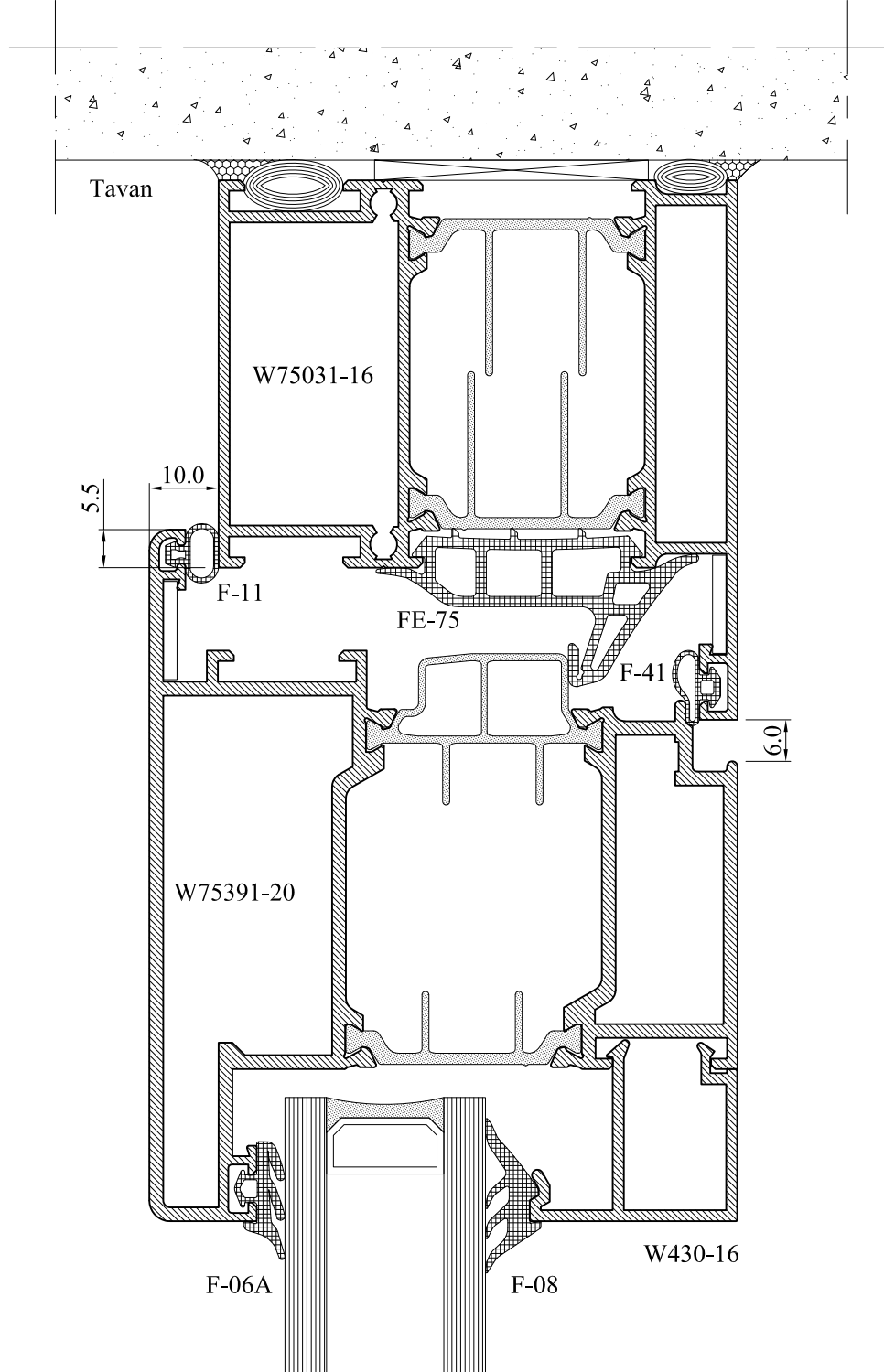


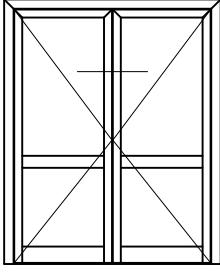
Dışa Açılır Çift Kanat Kapı
Yan Duvar Bitiş Detayı



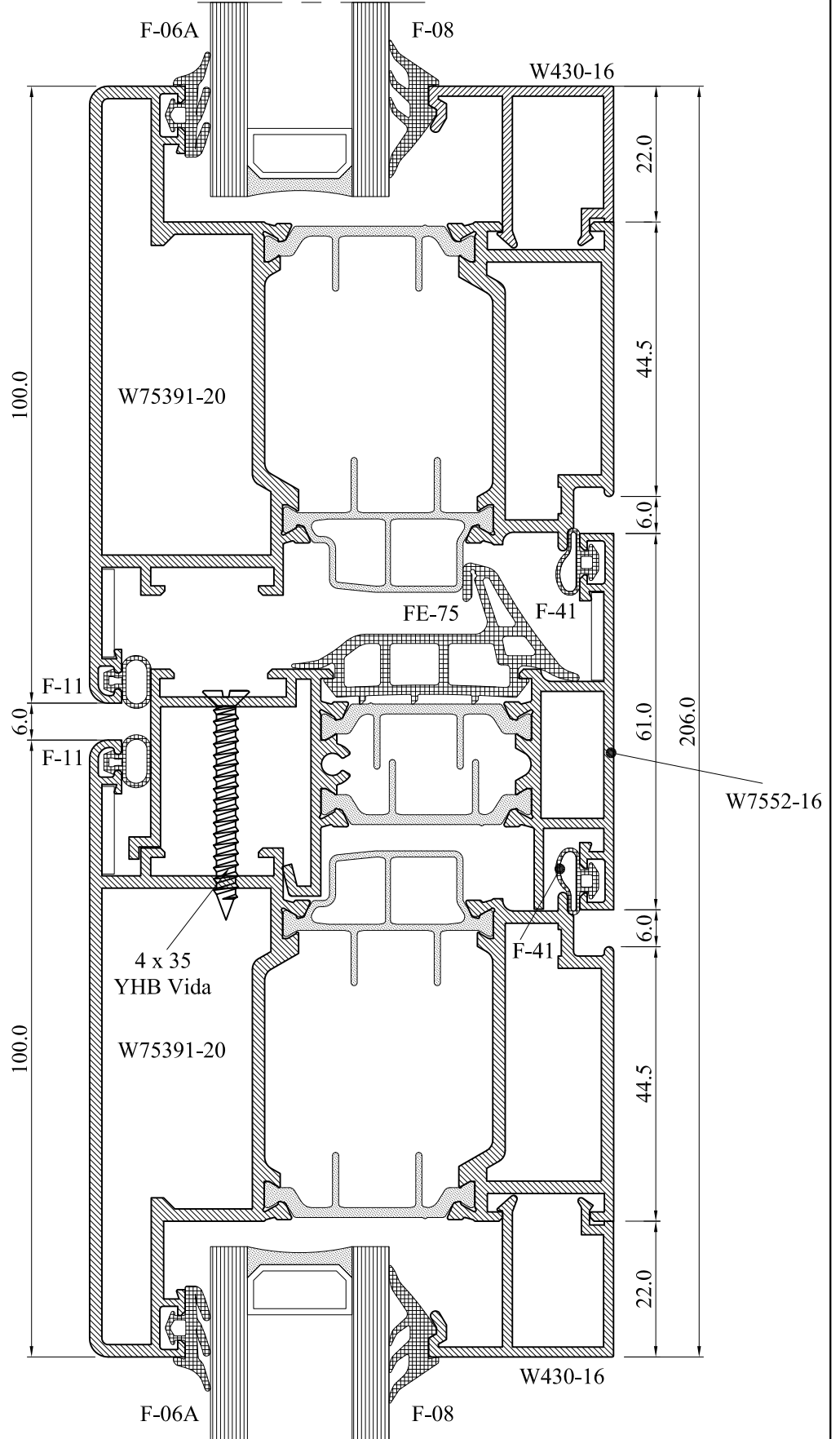


Dışa Açılır Çift Kanat Kapı
Üst Duvar Bitiş Detayı

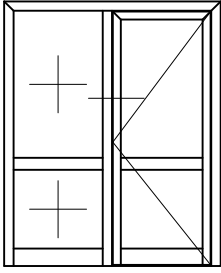




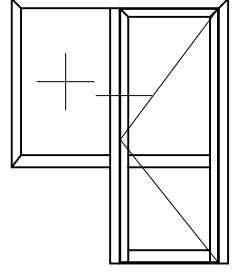
Dışa Açılır Çift Kanat
Kapı Orta Birleşim Detayı



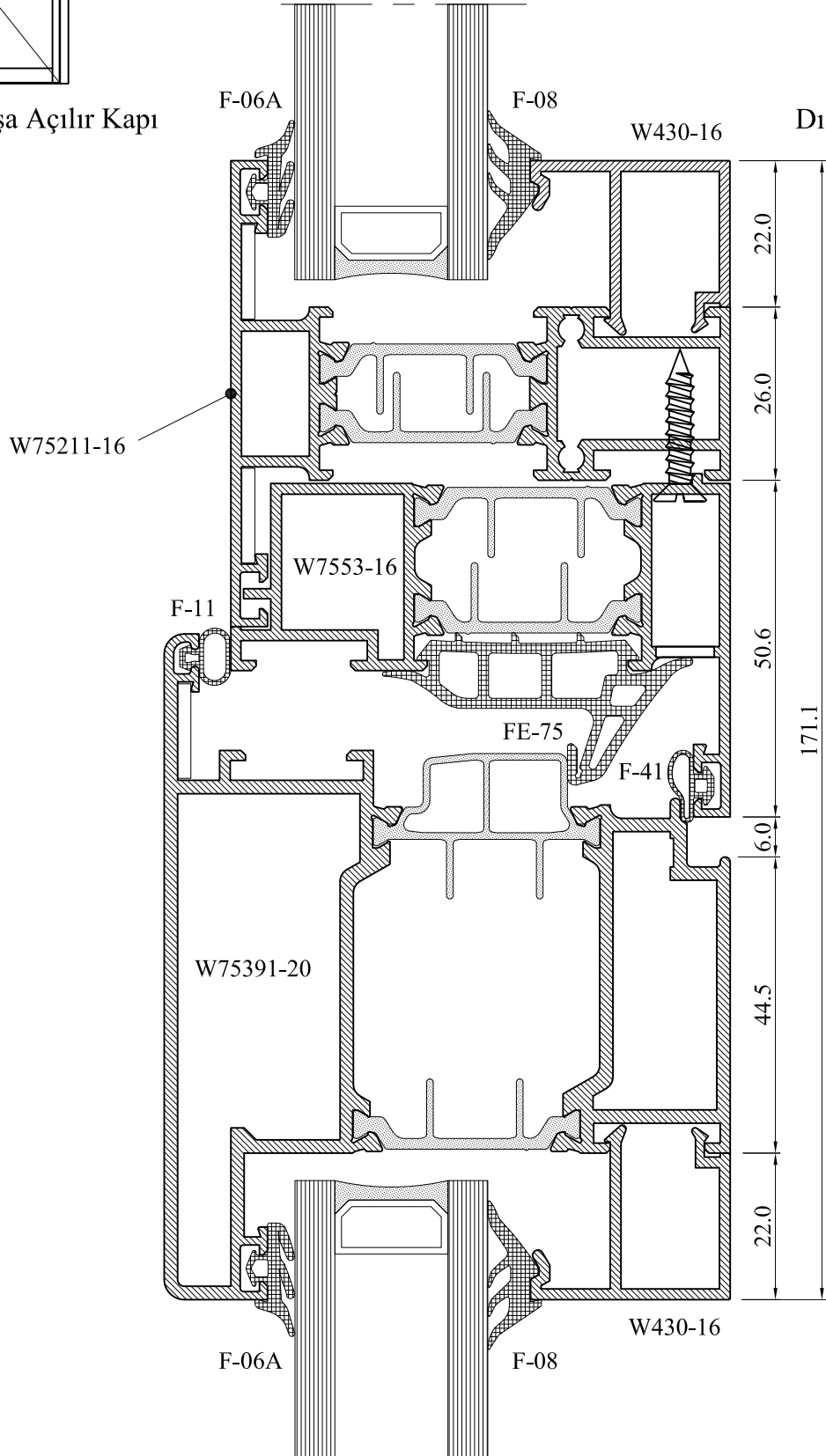
Sabit ve Açılır Kanat Birleşim Detayı



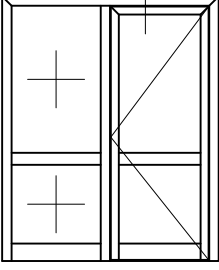
Sabitli Dışa Açılır Kapı



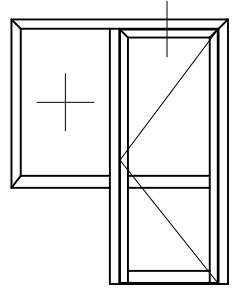
Dışa Açılır Topal Kapı



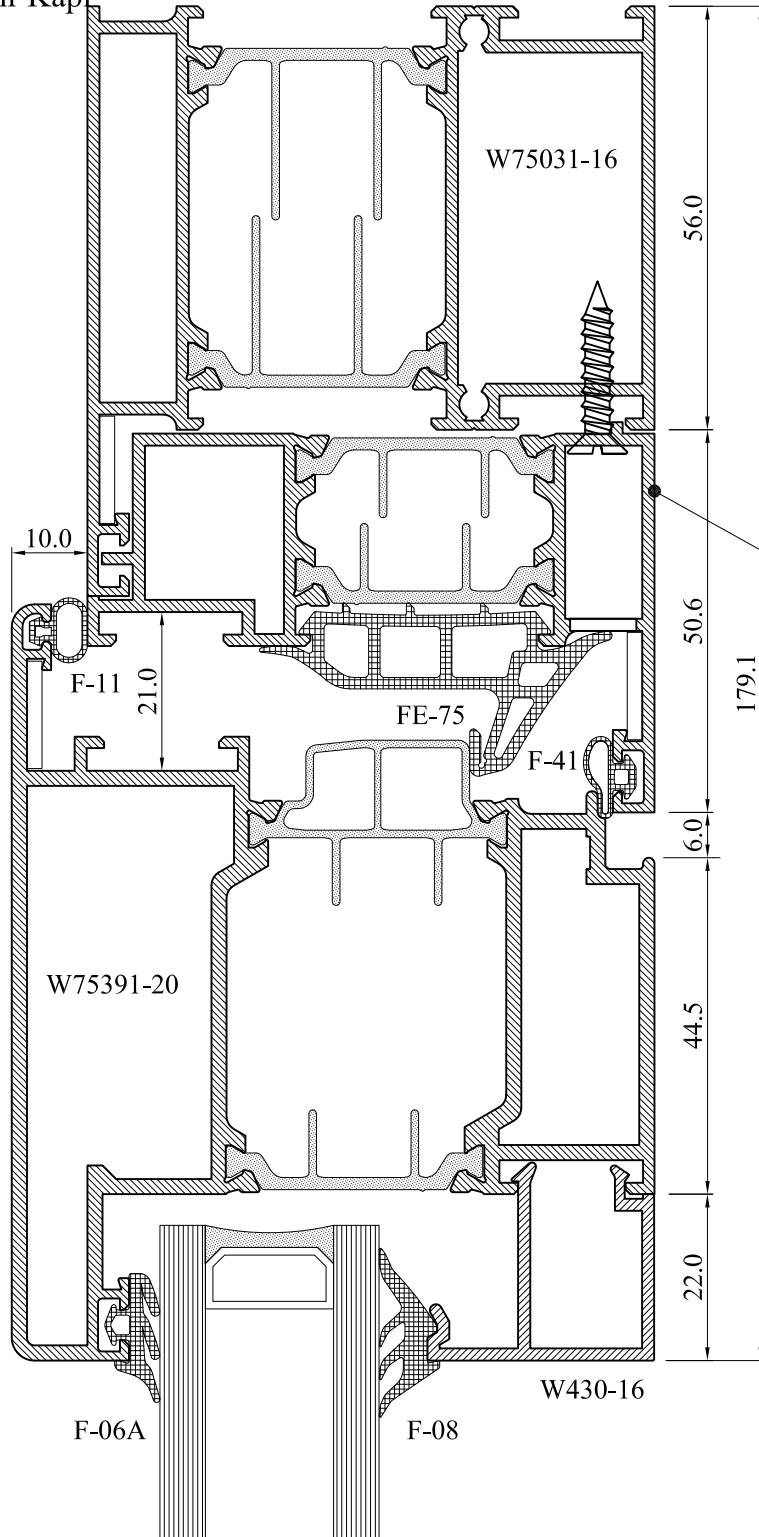
Sabit ve Açılır Kanat Birleşim Detayı



Sabitli Dışa Açılır Kapı

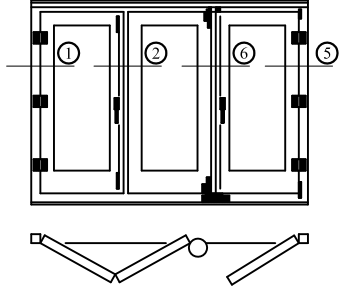


Dışa Açılır Topal Kapı

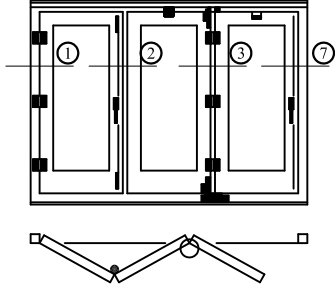


Katlanır Kapı Uygulanabilecek Şemalar
(G-U Katlanır Sürme Mekanizması)

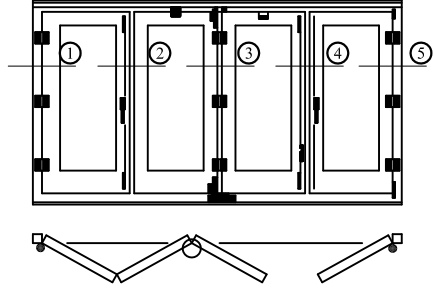
321



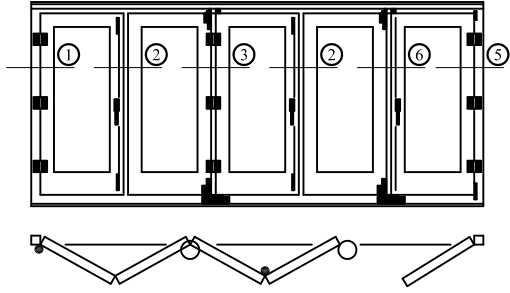
330



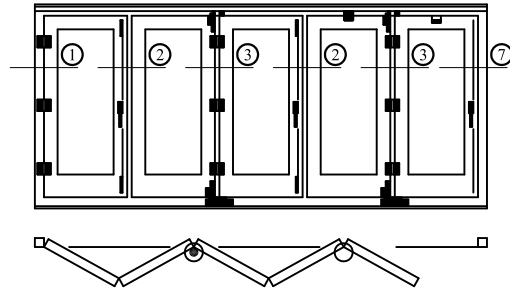
431



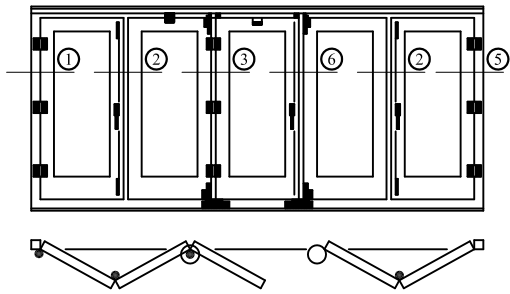
541



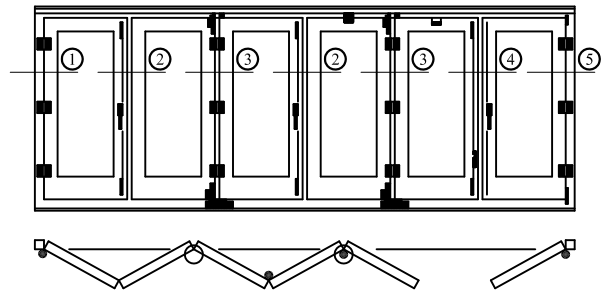
550



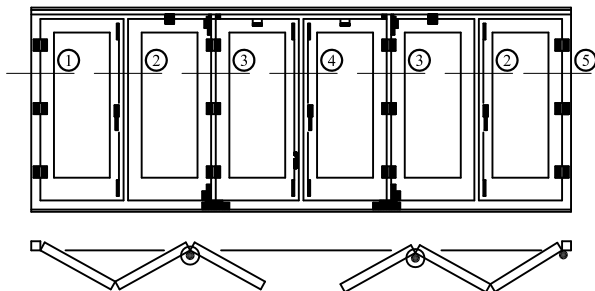
532



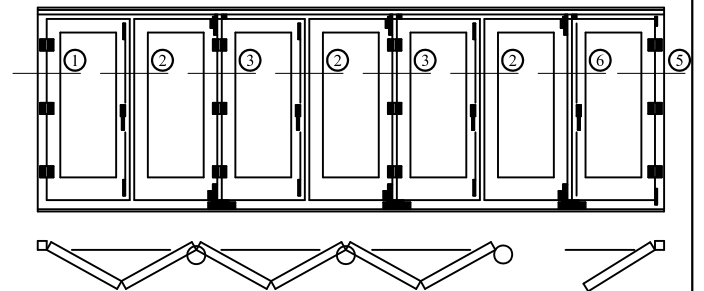
651



633

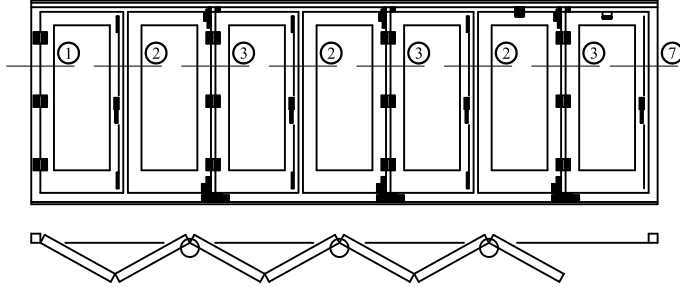


761

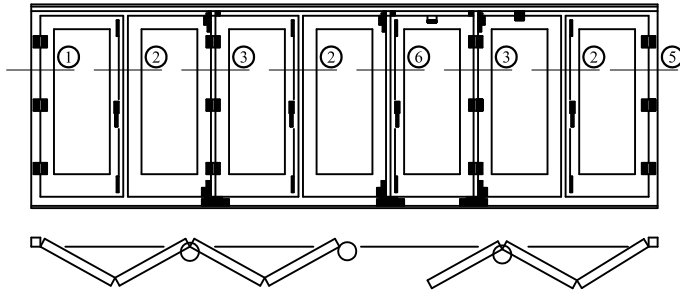


Katlanır Kapı Uygulanabilecek Şemalar

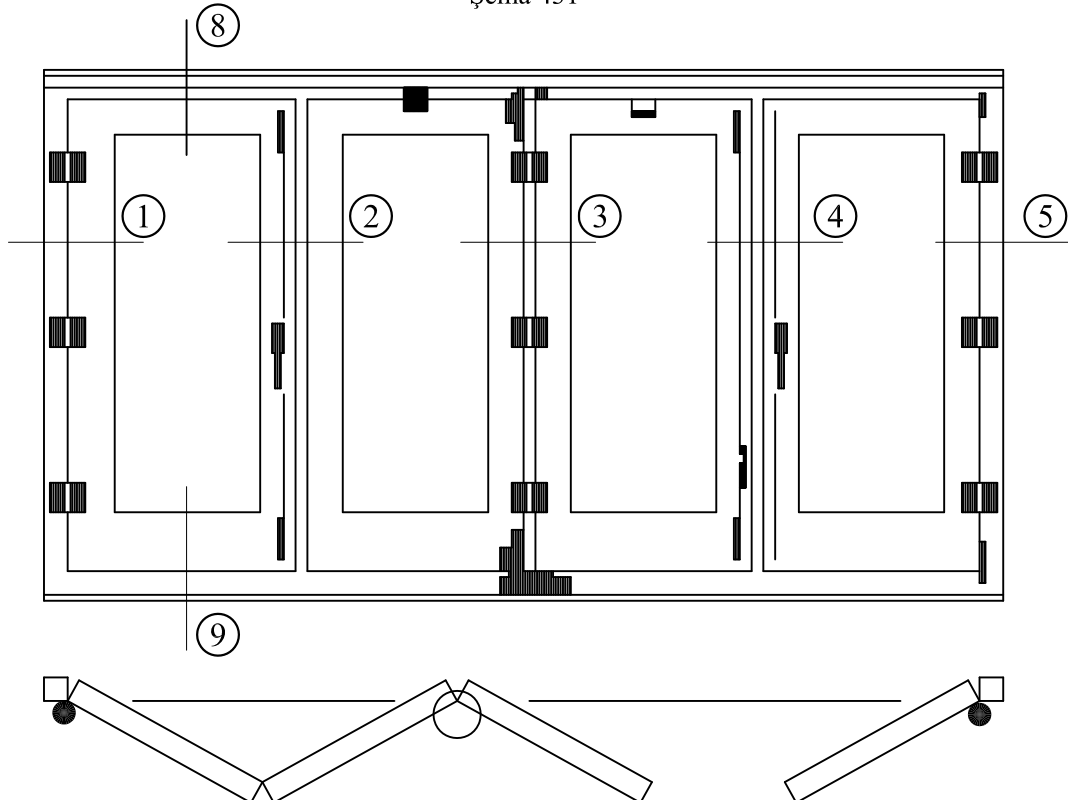
770



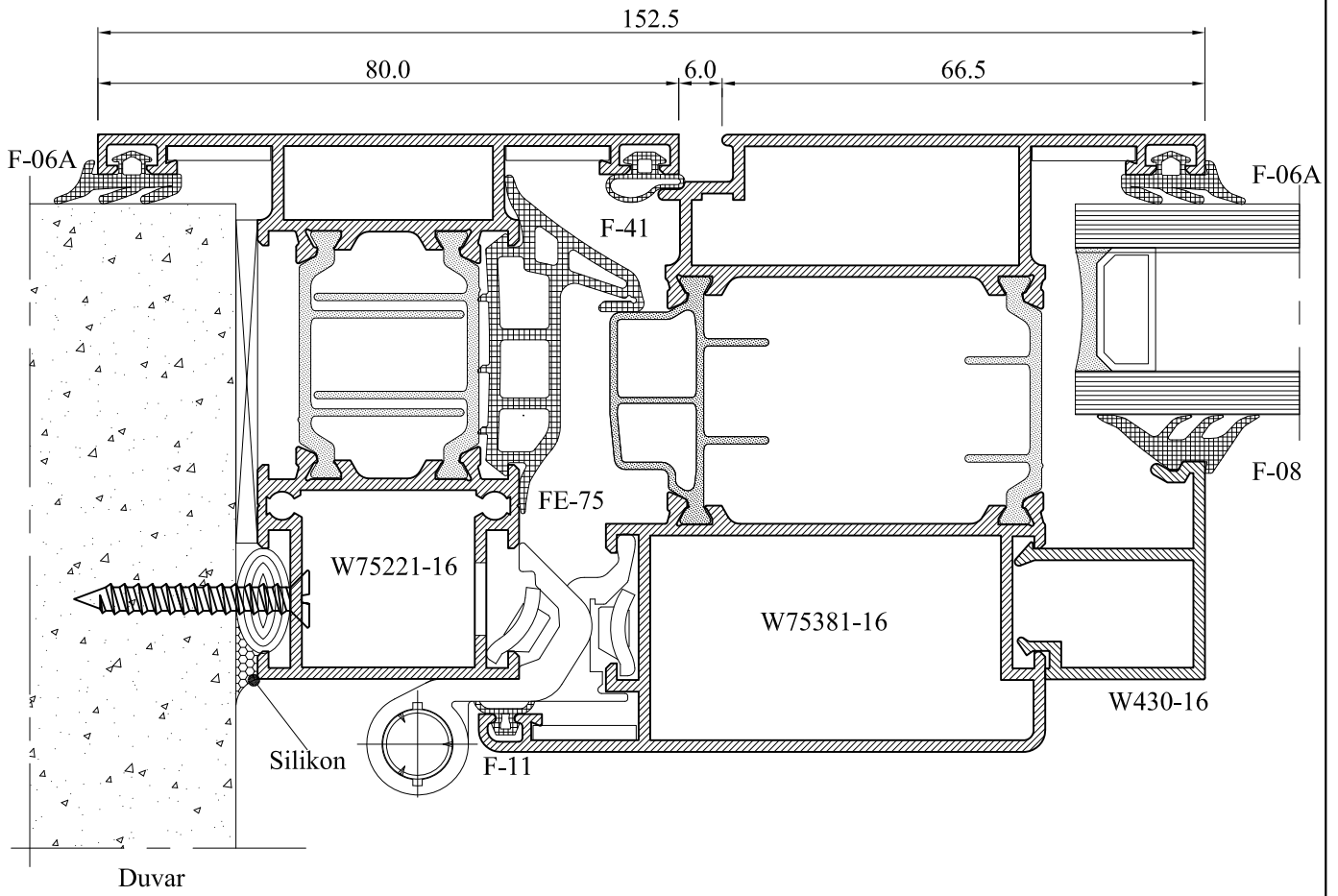
743



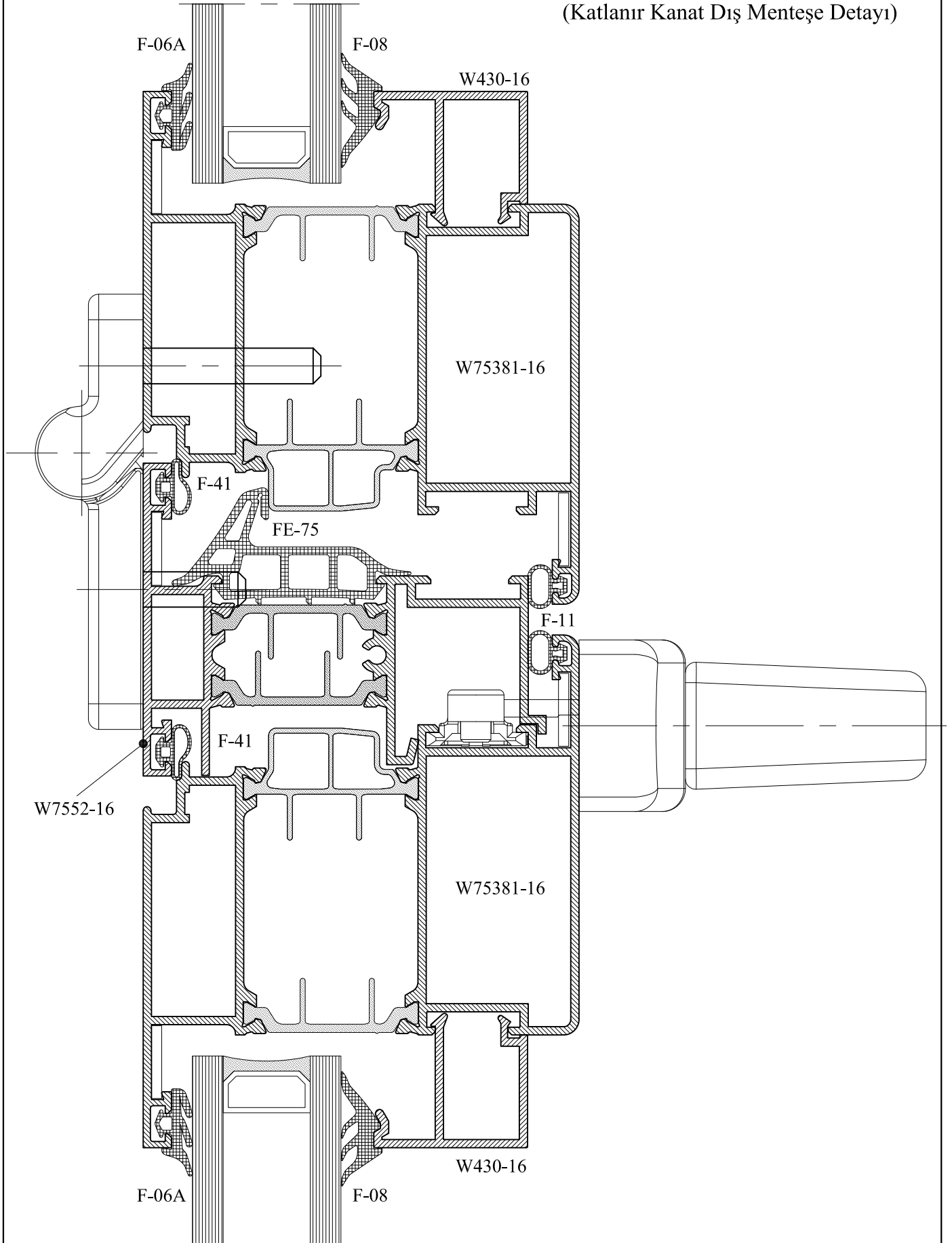
Detaylandırılmış Şema
Şema 431



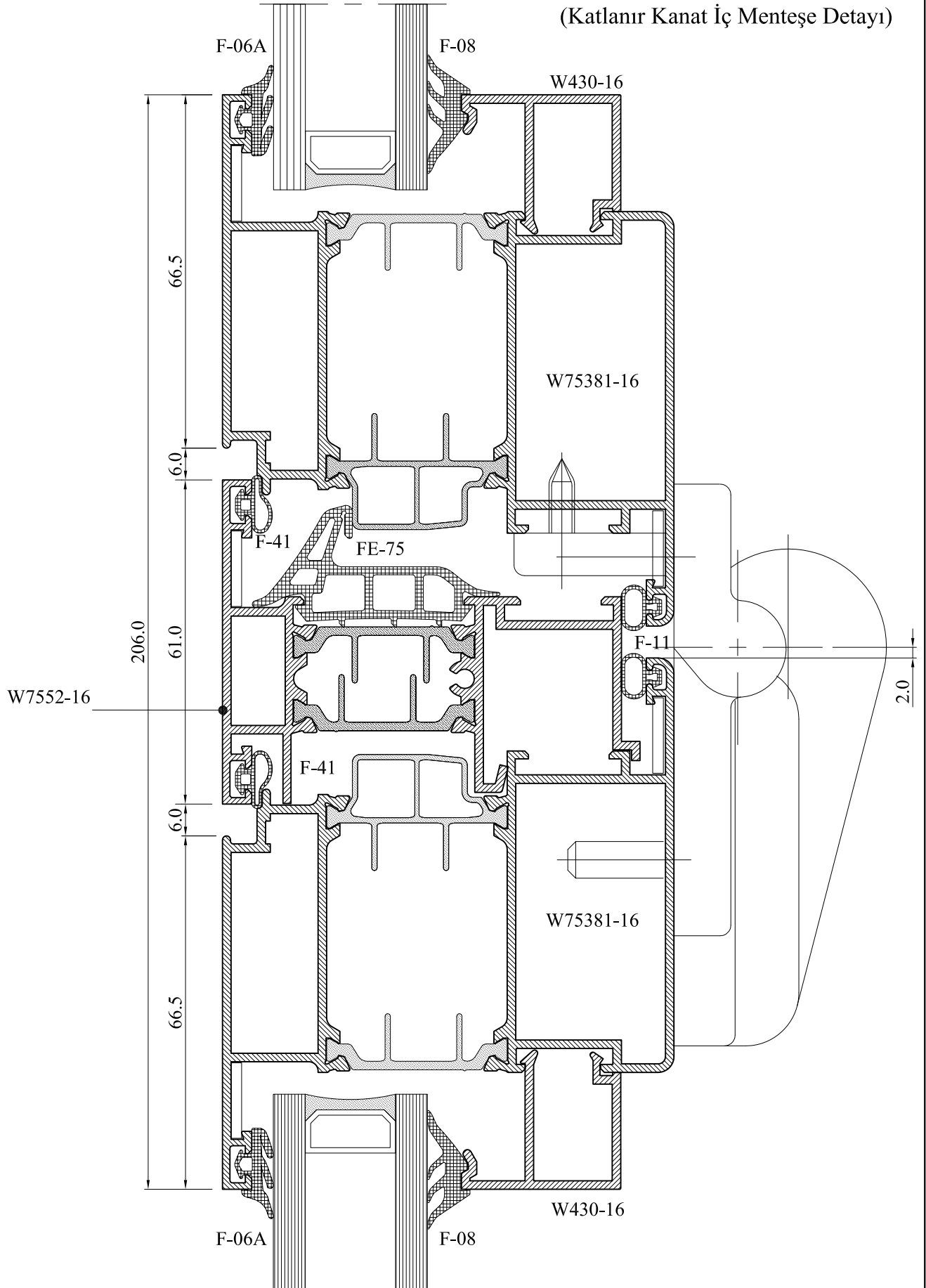
1 Numaralı Detay
(Duvar - Katlanır Kanat Detayı)



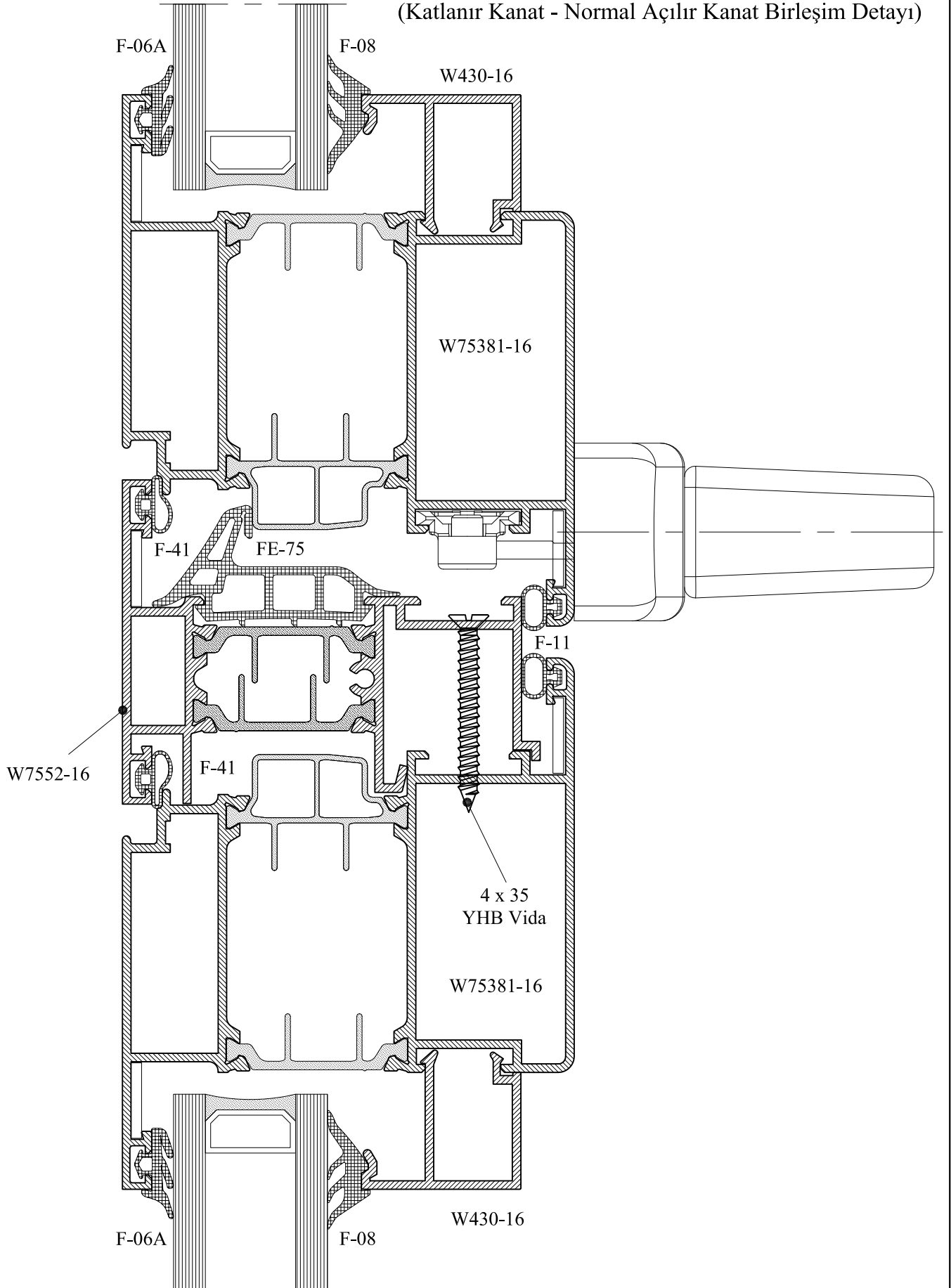
2 Numaralı Detay
(Katlanır Kanat Dış Menteşe Detayı)



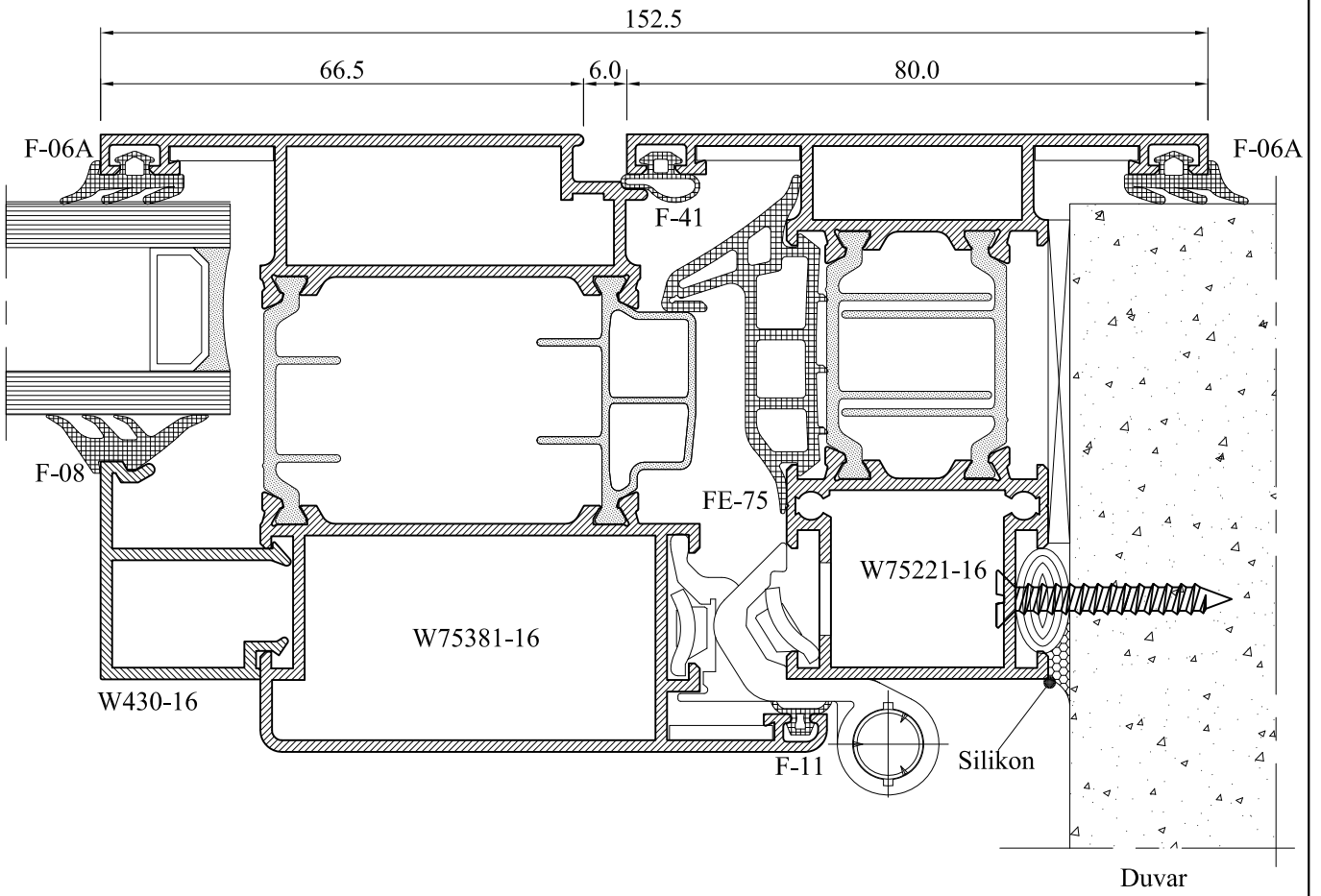
3 Numaralı Detay
(Katlanır Kanat İç Menteşe Detayı)



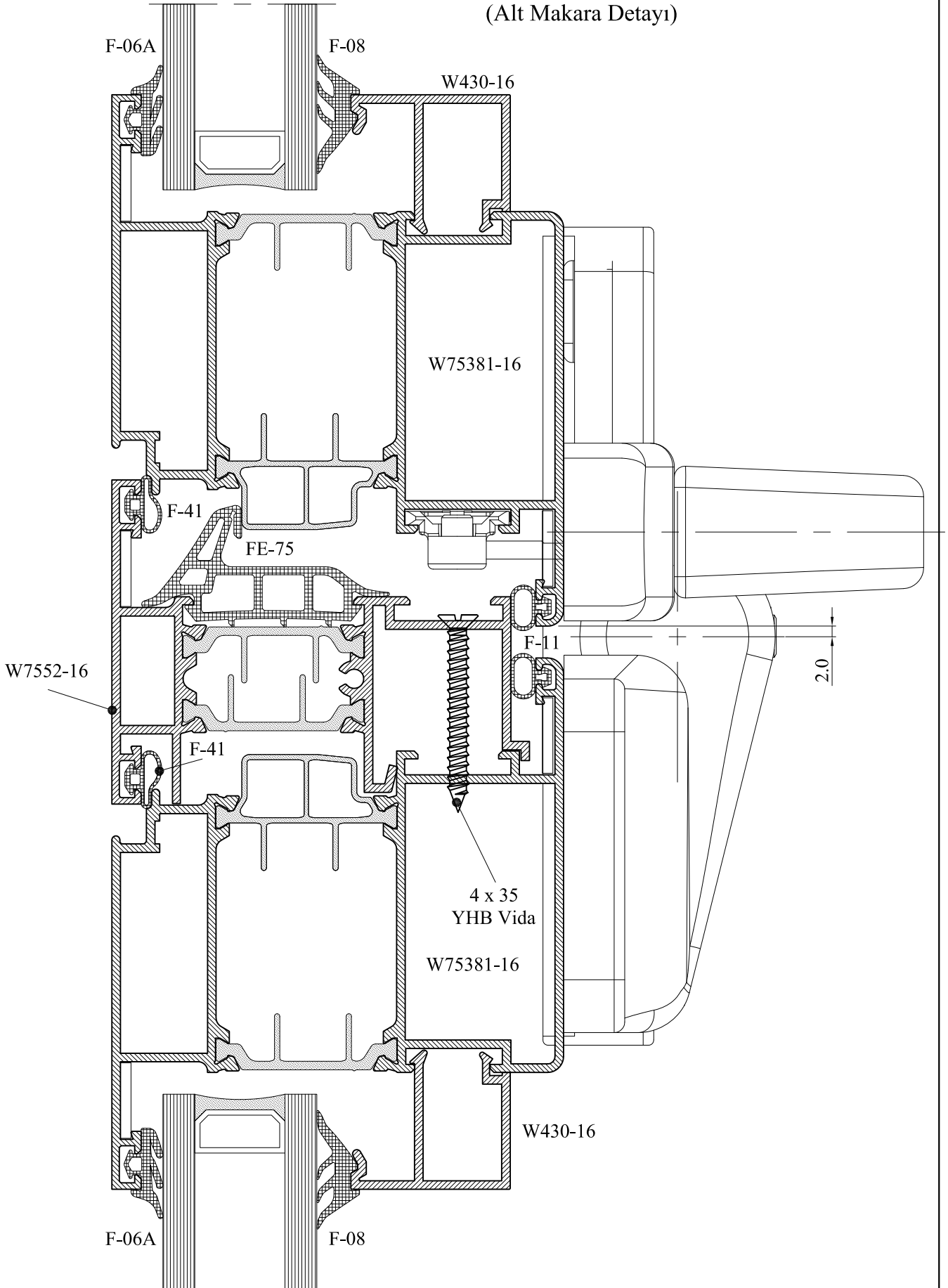
4 Numaralı Detay
(Katlanır Kanat - Normal Açılır Kanat Birleşim Detayı)



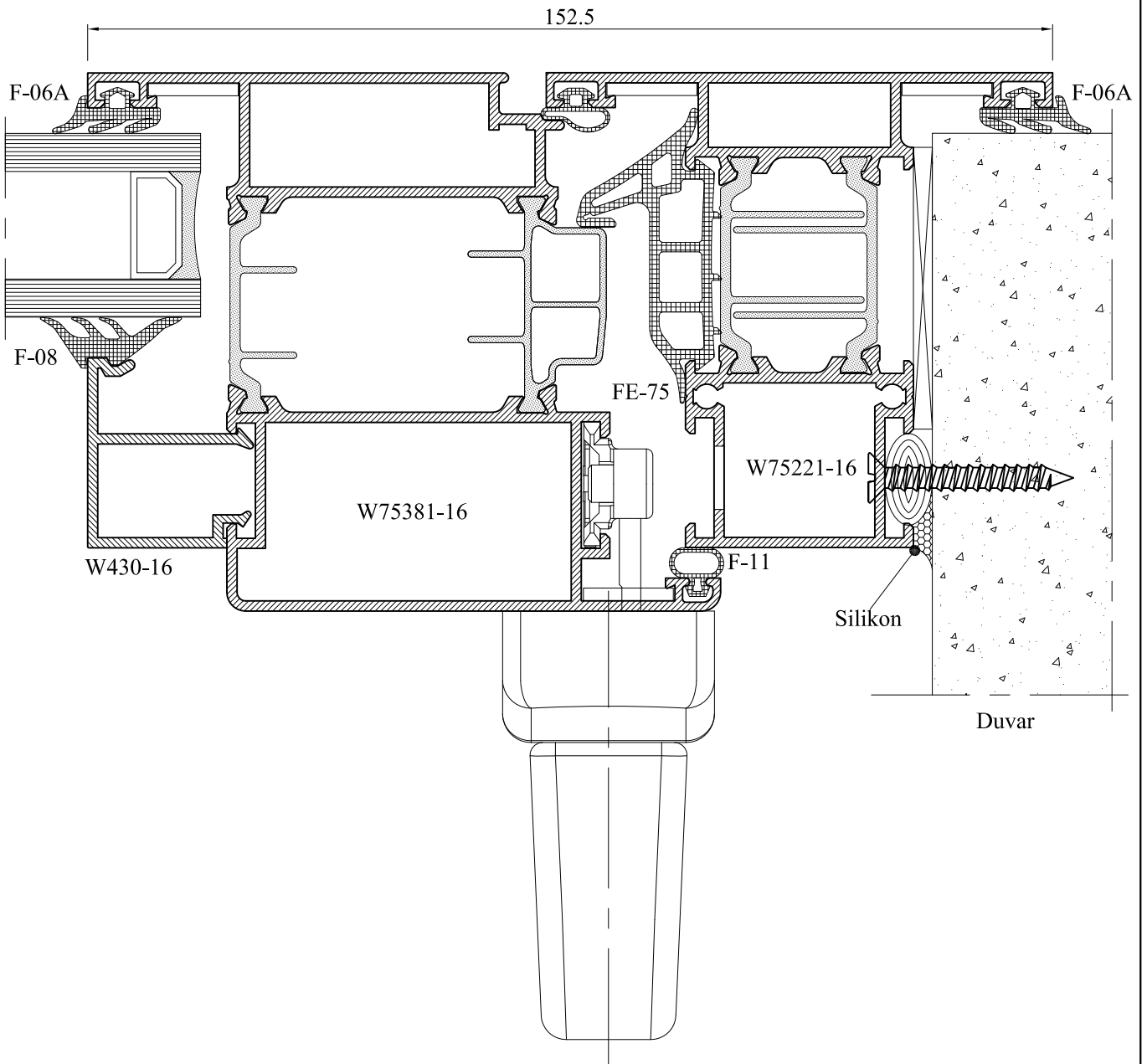
5 Numaralı Detay
(Normal Açılır Kanat - Duvar Birleşim Detayı)



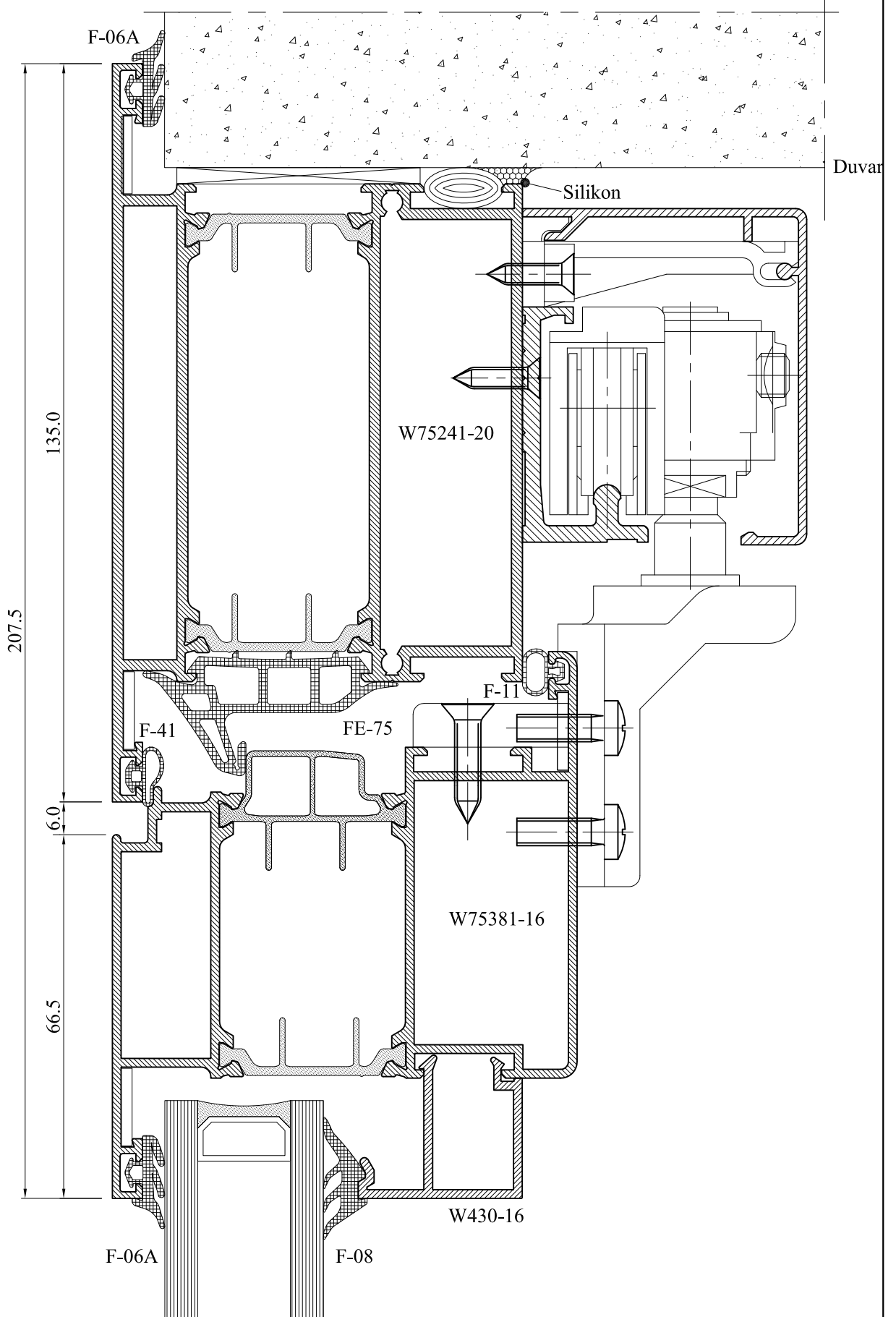
6 Numaralı Detay
(Alt Makara Detayı)



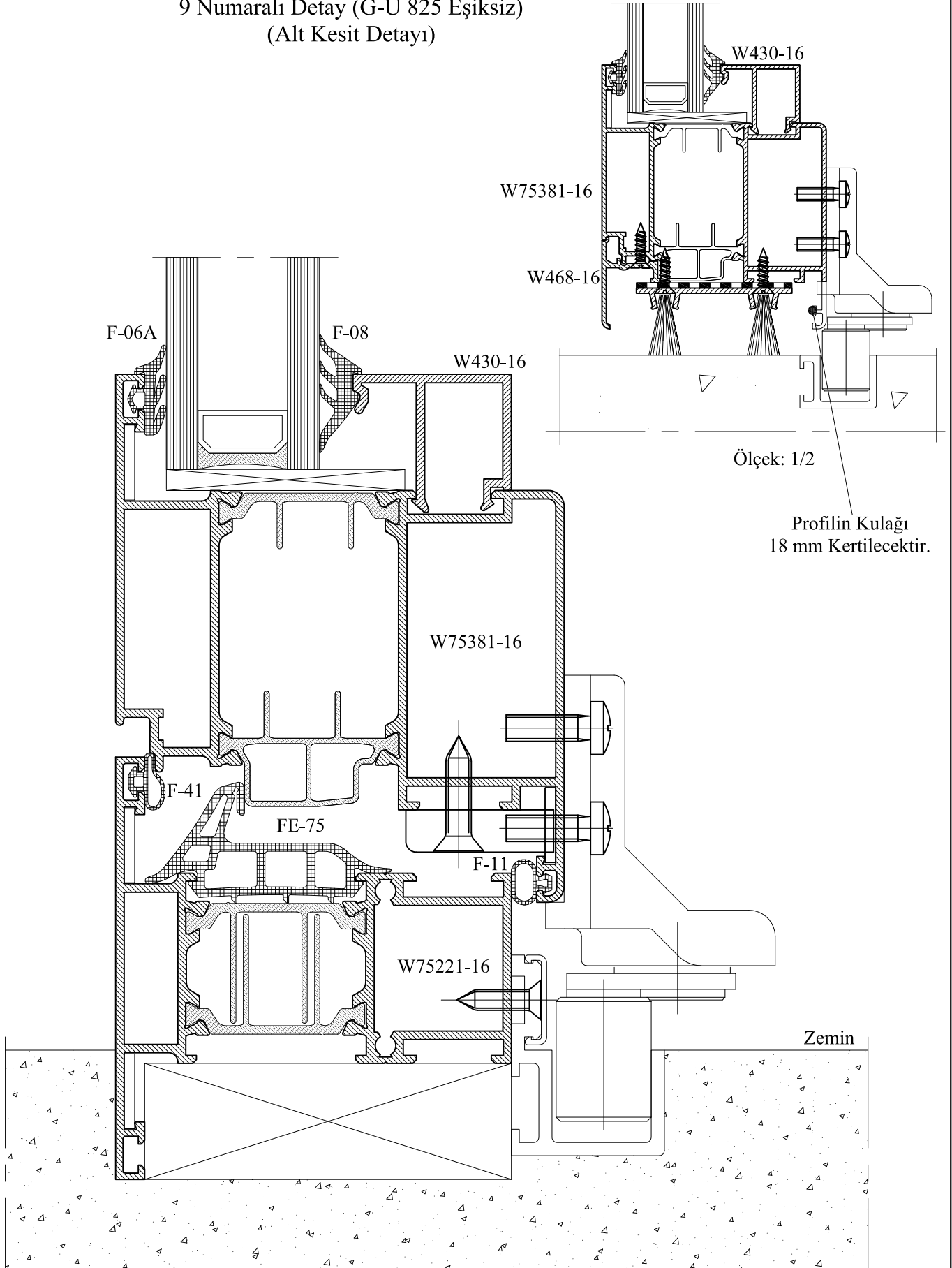
7 Numaralı Detay
(Katlanır Kanat - Duvar Detayı)



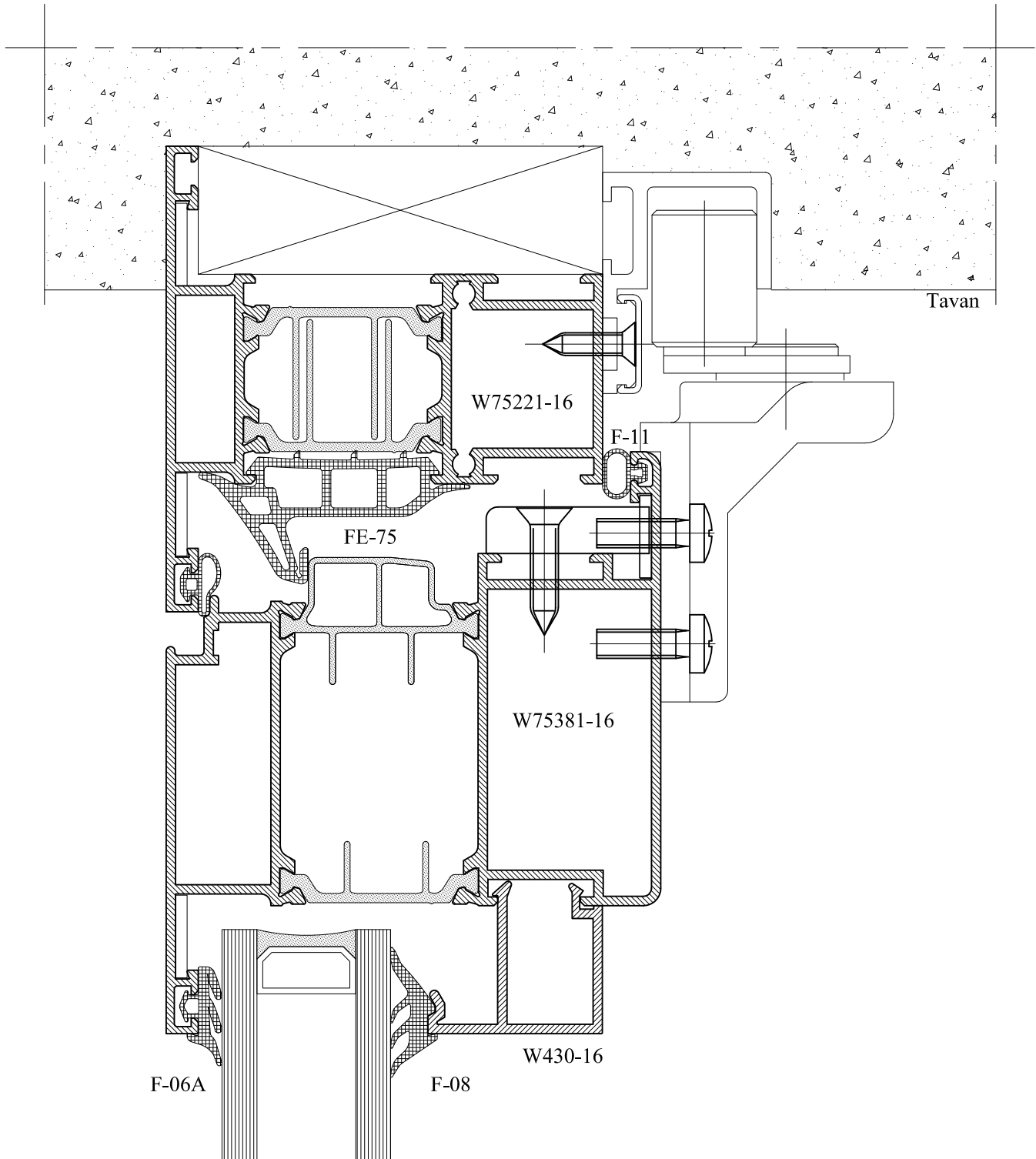
8 Numaralı Detay (G-U 825 Eşiksiz) (Üst Kesit Detayı)



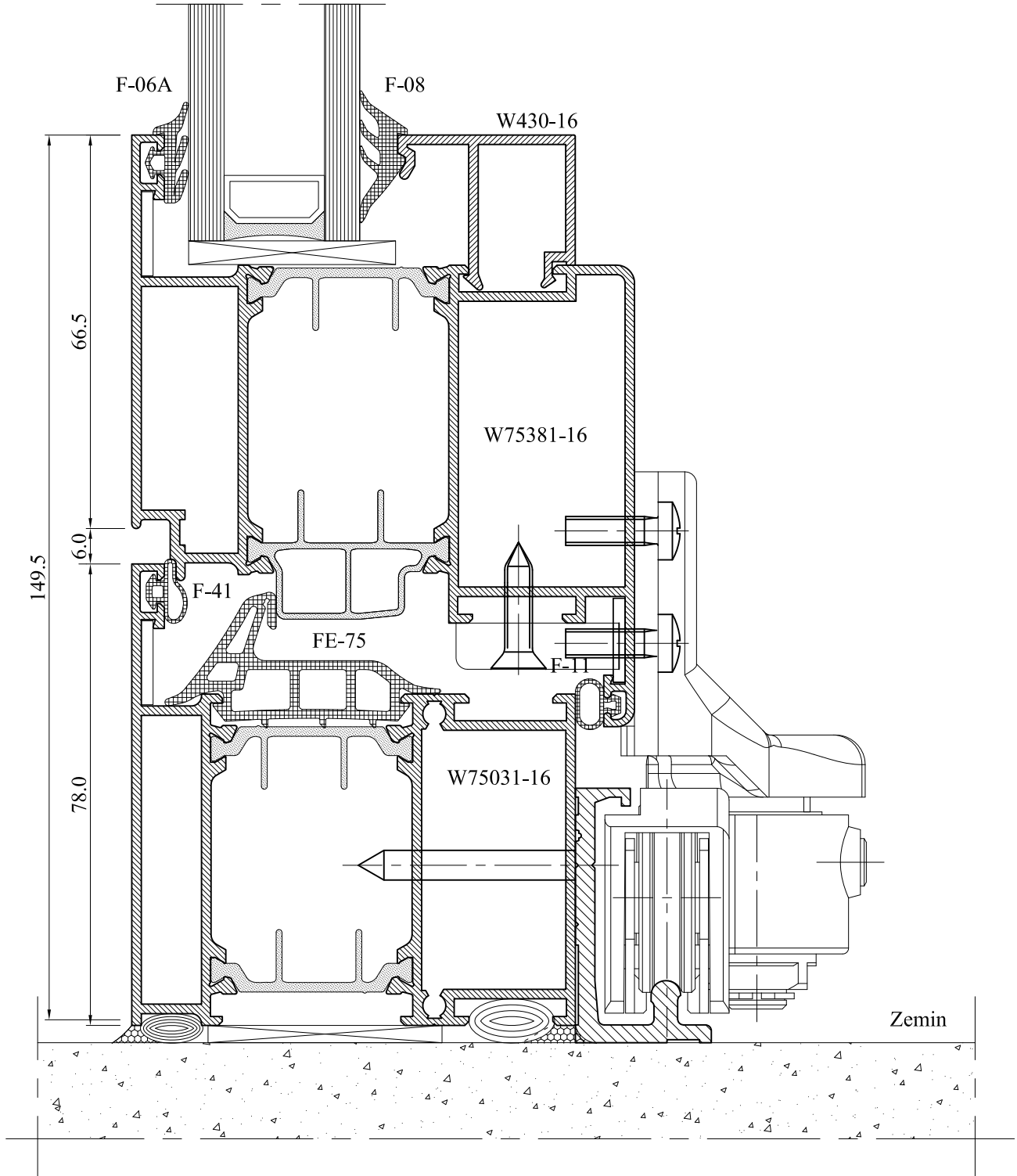
9 Numaralı Detay (G-U 825 Eşiksiz)
(Alt Kesit Detayı)

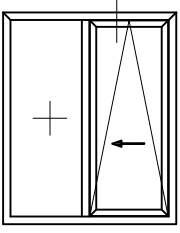


8 Numaralı Detay (G-U 822 Eşikli)
(Üst Kesit Detayı)

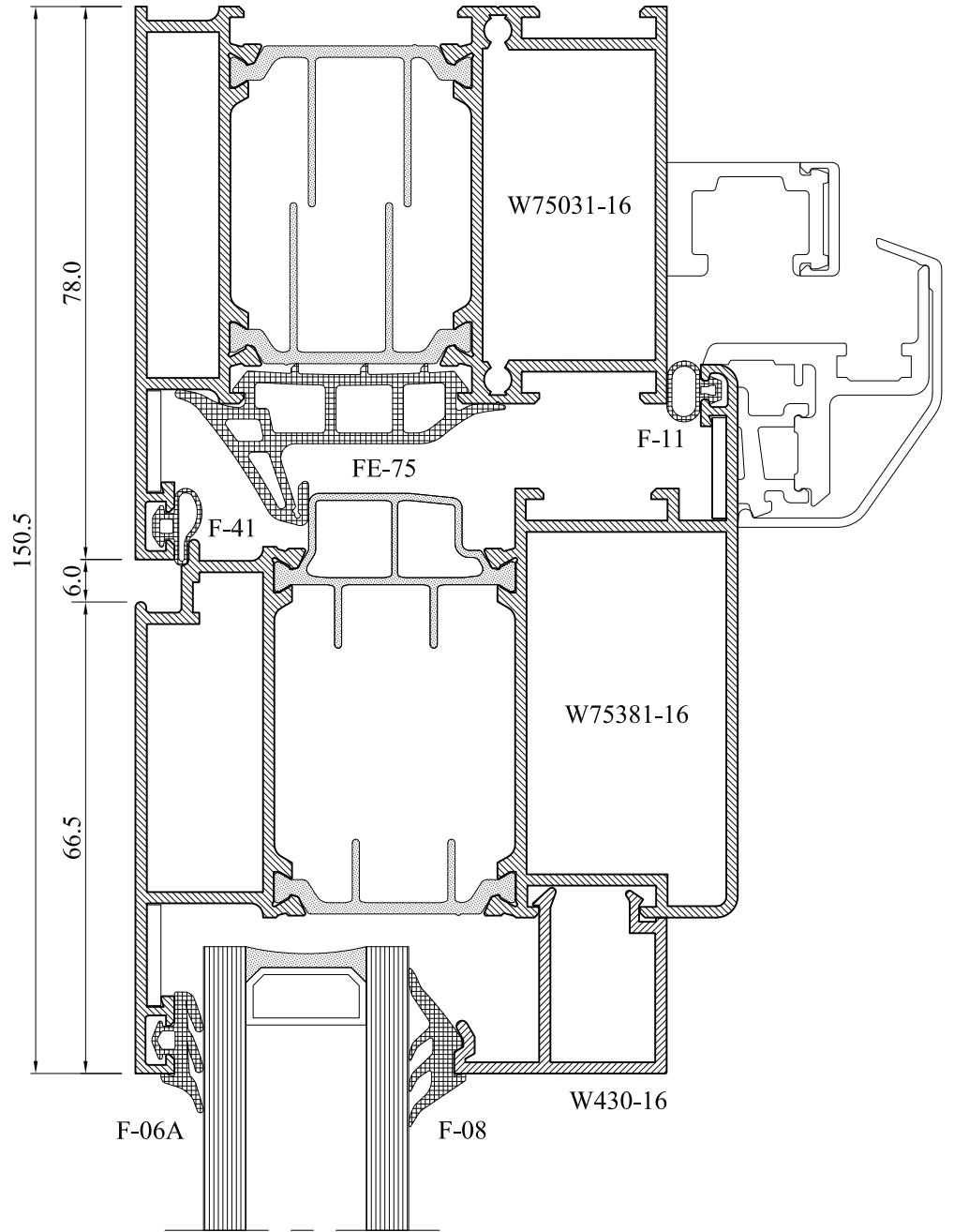


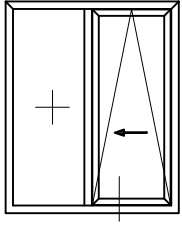
9 Numaralı Detay (G-U 822 Eşikli)
(Alt Kesit Detayı)





Çek - Sür
Üst Kesit





Çek - Sür
Alt Kesit

