

# WS65

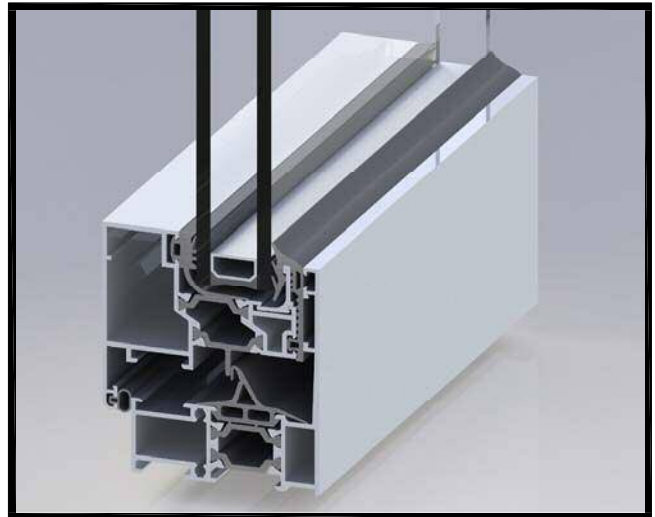
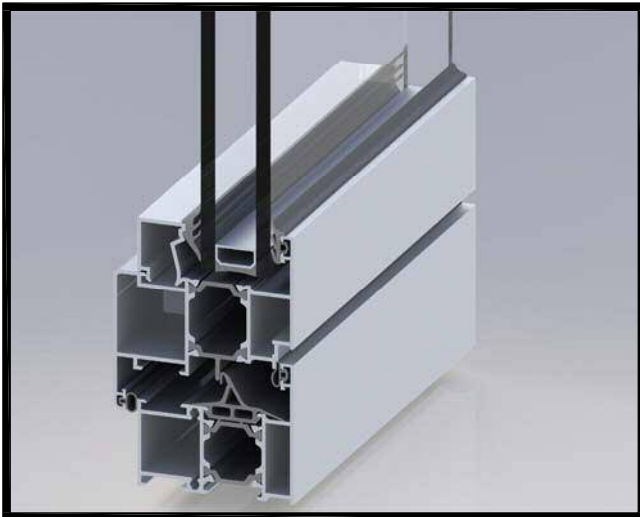
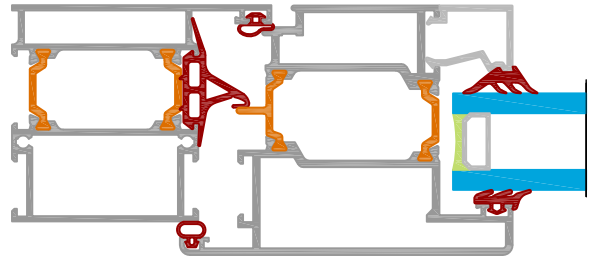
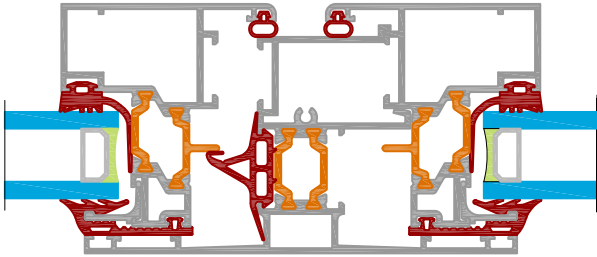
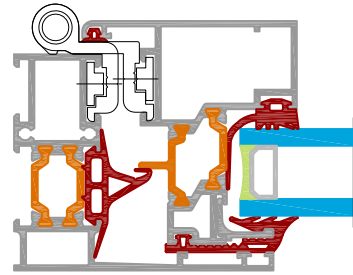
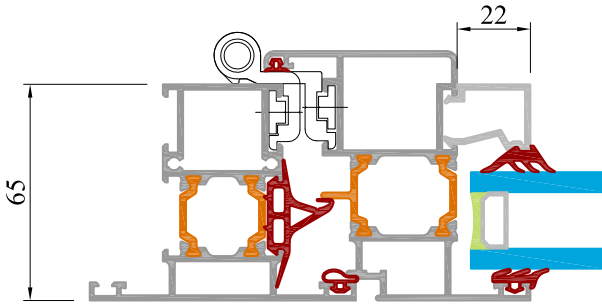
## DOĞRAMA SİSTEMİ

Kasa / Kanat derinliği : 65mm / 75mm

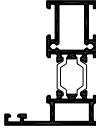
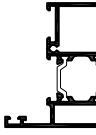
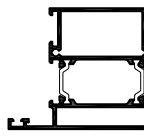
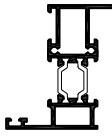
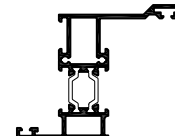
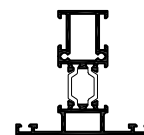
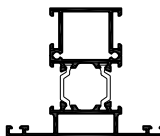
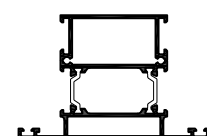
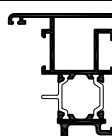
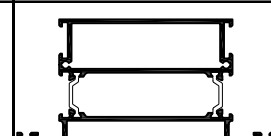
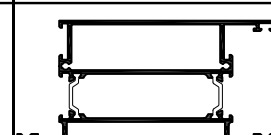
Et kalınlığı : 1.6mm ve 2.0mm

Isı yalıtımlı : 24mm

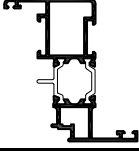
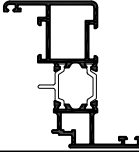
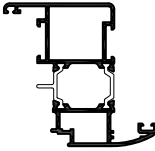
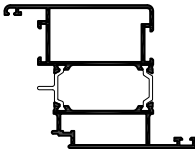
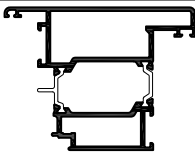
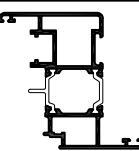
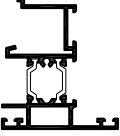
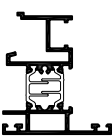
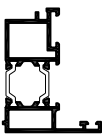
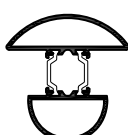
Euro normlarında aksesuar kanalı



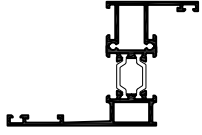
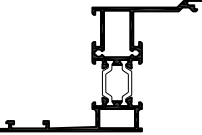
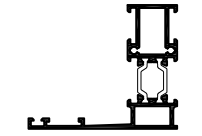
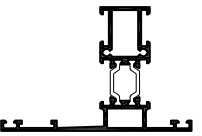
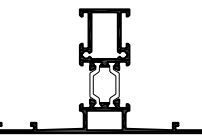
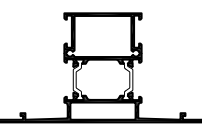
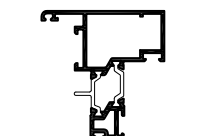
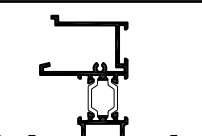
## WS65 Profil Endeksi

| Açıklamalar                                                                   | Profil Resmi                                                                        | Profil Kodu | Ağırlık Kg/m | Ix    | Iy     | Sayfa No |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|--------------|-------|--------|----------|
| Kasa (Genişlik 48mm)<br><i>Frame (Width 48mm)</i>                             |    | WS65011-16  | 1.316 Kg/m   | 22.24 | 6.02   | 128      |
|                                                                               |                                                                                     | WS65011-20  | 1.450 Kg/m   | 25.40 | 6.38   | 128      |
| Kasa (Genişlik 58mm)<br><i>Frame (Width 58mm)</i>                             |    | WS65021-16  | 1.505 Kg/m   | 26.24 | 12.33  | 128      |
|                                                                               |                                                                                     | WS65021-20  | 1.680 Kg/m   | 30.31 | 13.15  | 128      |
| Kasa (Genişlik 78mm)<br><i>Frame (Width 78mm)</i>                             |    | WS65031-16  | 1.852 Kg/m   | 33.95 | 35.75  | 128      |
|                                                                               |                                                                                     | WS65031-20  | 2.114 Kg/m   | 39.84 | 38.59  | 128      |
| Pervazlı Kasa (Genişlik 70mm)<br><i>Frame (Width 70mm)</i>                    |   | WS65015-16  | 1.442 Kg/m   | 27.57 | 9.63   | 129      |
| Pervazlı Kasa (Genişlik 85mm)<br><i>Frame (Width 85mm)</i>                    |  | WS65017-16  | 1.574 Kg/m   | 33.89 | 17.83  | 129      |
| Orta Kayıt (Genişlik 70mm)<br><i>Transom - Mullion Profile (Width 70mm)</i>   |  | WS65211-16  | 1.449 Kg/m   | 25.36 | 9.68   | 130      |
|                                                                               |                                                                                     | WS65211-20  | 1.596 Kg/m   | 28.84 | 10.18  | 130      |
| Orta Kayıt (Genişlik 80mm)<br><i>Transom - Mullion Profile (Width 80mm)</i>   |  | WS65221-16  | 1.638 Kg/m   | 29.39 | 17.37  | 130      |
|                                                                               |                                                                                     | WS65221-20  | 1.826 Kg/m   | 33.78 | 18.47  | 130      |
| Orta Kayıt (Genişlik 100mm)<br><i>Transom - Mullion Profile (Width 100mm)</i> |  | WS65231-16  | 1.985 Kg/m   | 37.16 | 44.30  | 130      |
|                                                                               |                                                                                     | WS65231-20  | 2.260 Kg/m   | 43.38 | 47.71  | 130      |
| Pivot Adaptörü<br><i>Pivot Adapter</i>                                        |  | WS6551-16   | 1.545 Kg/m   | -     | -      | 130      |
| Orta Kayıt (Genişlik 135mm)<br><i>Transom - Mullion Profile (Width 135mm)</i> |  | WS65241-20  | 2.997 Kg/m   | 59.60 | 140.27 | 131      |
| Etek (Genişlik 135mm)<br><i>Kickplate Profile (Width 135mm)</i>               |  | WS65121-20  | 3.139 Kg/m   | -     | -      | 131      |

## WS65 Profil Endeksi

| Açıklamalar                                                                                        | Profil Resmi                                                                        | Profil Kodu | Ağırlık Kg/m | Ix    | Iy   | Sayfa No |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|--------------|-------|------|----------|
| Kanat Profili (Genişlik 70mm)<br><i>Sash Profile (Width 70mm)</i>                                  |    | WS65351-16  | 1.529 Kg/m   | -     | -    | 132      |
|                                                                                                    |    | WS65351-20  | 1.729 Kg/m   | -     | -    | 132      |
| Kanat Profili (Genişlik 80mm)<br><i>Sash Profile (Width 80mm)</i>                                  |    | WS65361-16  | 1.718 Kg/m   | -     | -    | 132      |
|                                                                                                    |    | WS65361-20  | 1.953Kg/m    | -     | -    | 132      |
| Oval Kanat Profili (Genişlik 80mm)<br><i>Sash Profile (Width 80mm)</i>                             |    | WS65363-16  | 1.760 Kg/m   | -     | -    | 132      |
| Kanat Profili (Genişlik 100mm)<br><i>Sash Profile (Width 100mm)</i>                                |   | WS65381-16  | 2.049 Kg/m   | -     | -    | 132      |
|                                                                                                    |   | WS65381-20  | 2.379 Kg/m   | -     | -    | 132      |
| Dışa Açılır Kapı Kanadı (Genişlik 100mm)<br><i>Door Sash Profile Opening Outside (Width 100mm)</i> |  | WS65391-20  | 2.542 Kg/m   | -     | -    | 133      |
| Kanat Profili (Genişlik 80mm)<br><i>Sash Profile (Width 80mm)</i>                                  |  | WS65362-16  | 1.804 Kg/m   | -     | -    | 133      |
| Damlalık Profili<br><i>Windowsill Profile</i>                                                      |  | 5711-20     | 0.404 Kg/m   | -     | -    | 133      |
| Çift Kanat Adaptörü<br><i>Adjoining Sash Adapter</i>                                               |  | WS6552-16   | 1.458 Kg/m   | -     | -    | 134      |
| Çift Kanat Adaptörü<br><i>Adjoining Sash Adapter</i>                                               |  | WS65521-16  | 1.494 Kg/m   | -     | -    | 134      |
| Dışa Açılır Kapı Adaptörü<br><i>Outside Opening Door Adapter</i>                                   |  | WS6553-16   | 1.304 Kg/m   | 20.78 | 7.95 | 134      |
| 90°-135° Ayarlanabilir Köşe Dönüş Profili<br><i>90°-135° Corners Profiles</i>                      |  | WS65265-18  | 1.552 Kg/m   | -     | -    | 134      |

## WS65 Profil Endeksi

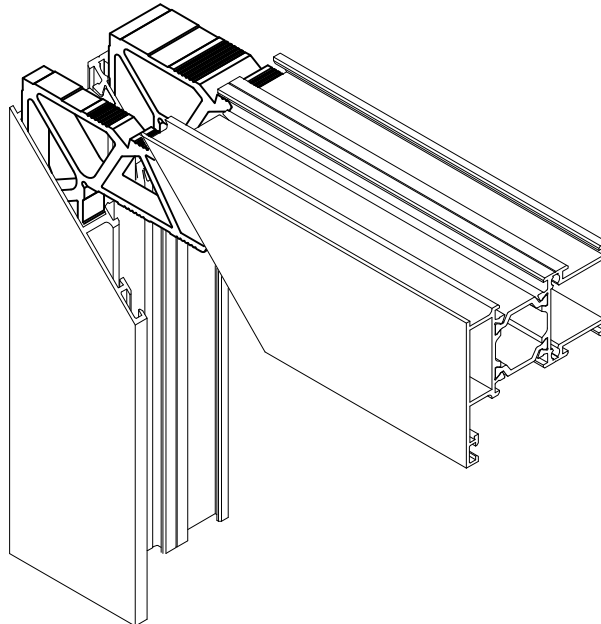
| Açıklamalar                                                                        | Profil Resmi                                                                        | Profil Kodu | Ağırlık Kg/m | Ix    | Iy    | Sayfa No |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|--------------|-------|-------|----------|
| Gizli Kanat Pervazlı Kasa<br><i>Frame Profile For Hidden Sash</i>                  |    | WS65016-16  | 1.620 Kg/m   | 32.70 | 25.49 | 135      |
| Gizli Kanat Pervazlı Kasa<br><i>Frame Profile For Hidden Sash</i>                  |    | WS65018-16  | 1.752 Kg/m   | 40.07 | 35.68 | 135      |
| Gizli Kanat Kasası<br><i>Frame Profile For Hidden Sash</i>                         |    | WS65012-16  | 1.494 Kg/m   | 26.45 | 20.53 | 136      |
| Gizli Kanat Orta Kayıt<br><i>Transom - Mullion Profile For Hidden Sash</i>         |   | WS65212-16  | 1.627 Kg/m   | 28.98 | 25.57 | 136      |
| Gizli Kanat Orta Kayıt<br><i>Transom - Mullion Profile For Hidden Sash</i>         |  | WS65213-16  | 1.807 Kg/m   | 31.96 | 44.66 | 137      |
| Gizli Kanat Orta Kayıt<br><i>Transom - Mullion Profile For Hidden Sash</i>         |  | WS65223-16  | 2.168 Kg/m   | 40.25 | 77.65 | 137      |
| Gizli Kanat Profili<br><i>Hidden Sash Profile</i>                                  |  | WS65326-16  | 1.446 Kg/m   | -     | -     | 138      |
| Gizli Kanat İçin Cam Çıtası<br><i>Glass Holder For Hidden Sash</i>                 |  | W416-15     | 0.142 Kg/m   | -     | -     | 138      |
| Gizli Kanatta Sabit Cam Adaptörü<br><i>Fix Glass Adapter For Hidden Sash</i>       |  | W546-16     | 0.592 Kg/m   | -     | -     | 138      |
| Gizli Kanatta Çift Kanat Adaptörü<br><i>Adjoining Sash Adapter For Hidden Sash</i> |  | WS65526-16  | 1.897 Kg/m   | -     | -     | 138      |
|                                                                                    |                                                                                     |             |              |       |       |          |

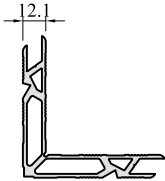
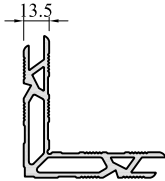
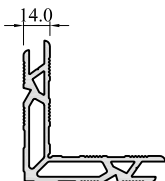
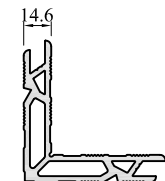
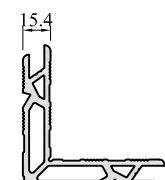
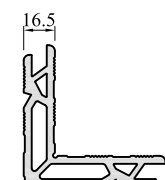
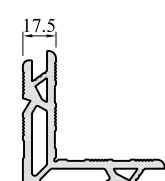
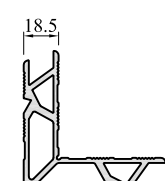
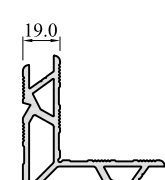
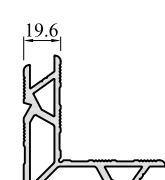
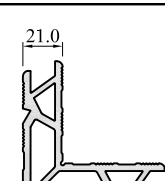
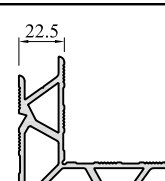
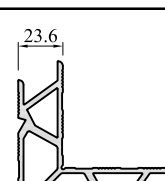
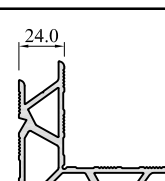
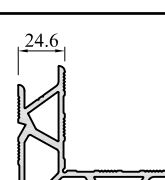
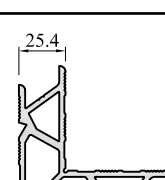


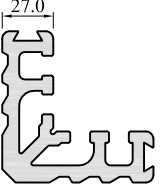
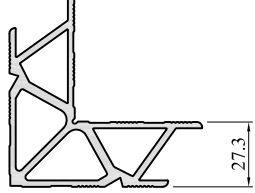
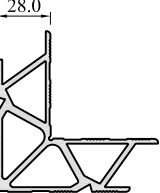
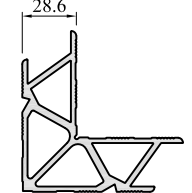
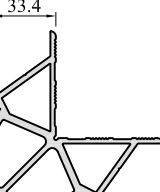
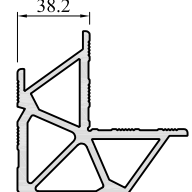
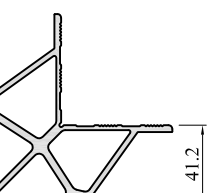
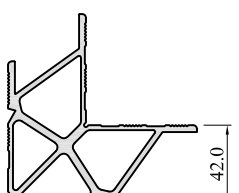
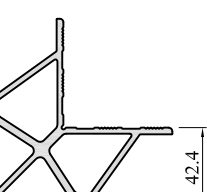
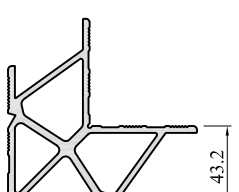
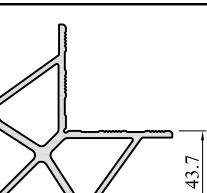
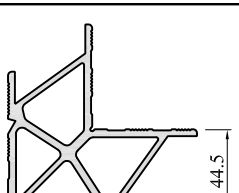
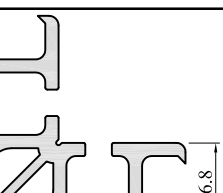
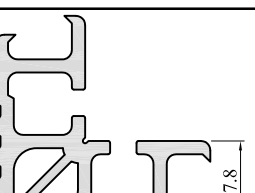
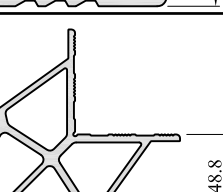
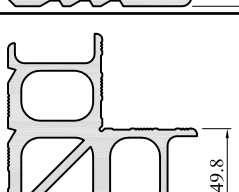
## PROFİLLER ve KULLANILAN TAKOZLAR LİSTESİ

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.

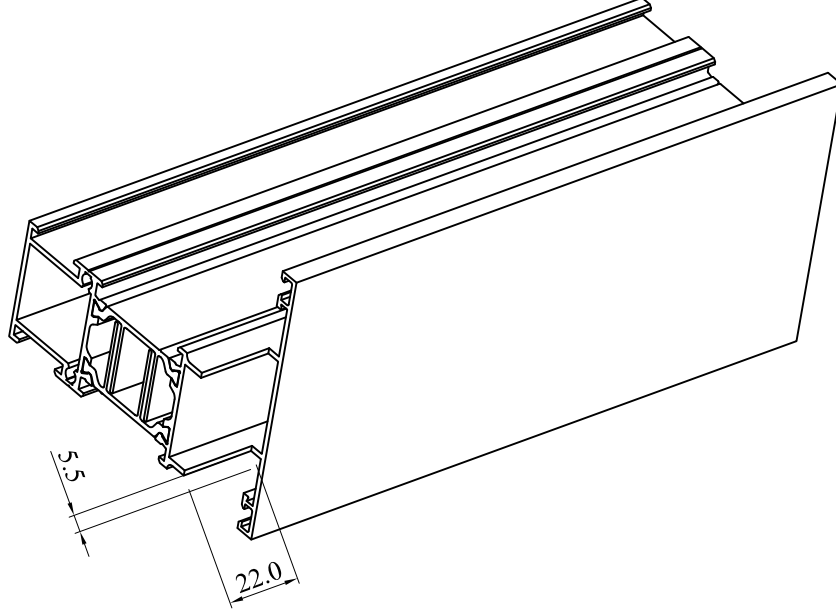
| Profil No | A/<br>Ü | Takoz Numarası /<br>Kesim Ölçüsü (mm) | Profil No | A/<br>Ü | Takoz Numarası /<br>Kesim Ölçüsü (mm) | Profil No | A/<br>Ü | Takoz Numarası /<br>Kesim Ölçüsü (mm) |
|-----------|---------|---------------------------------------|-----------|---------|---------------------------------------|-----------|---------|---------------------------------------|
| 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                        |



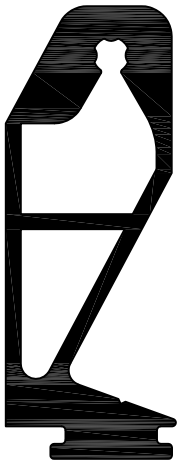
| 2D Resmi                                                                            | Özellikleri                       | 2D Resmi                                                                             | Özellikleri                       |
|-------------------------------------------------------------------------------------|------------------------------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

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

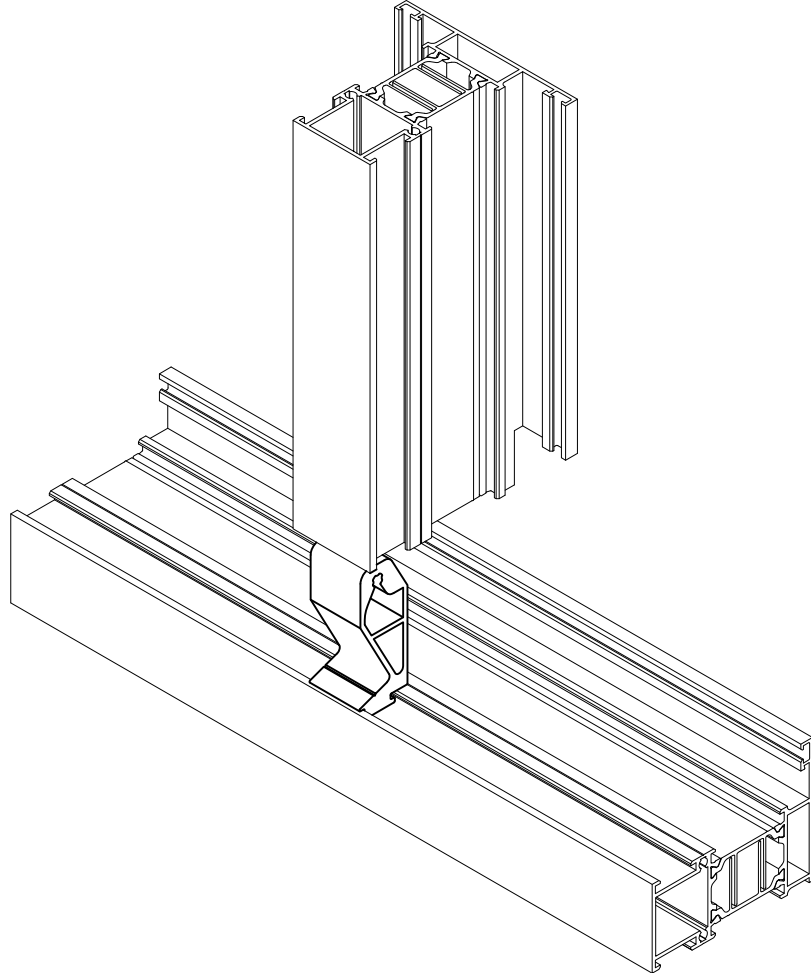
## EURO COMFORT SERİLER İÇİN ORTA KAYIT KERTME DETAYI



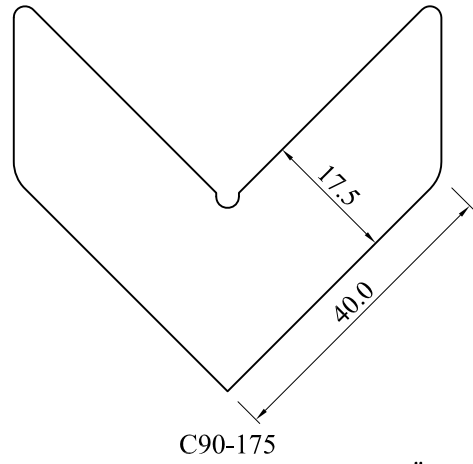
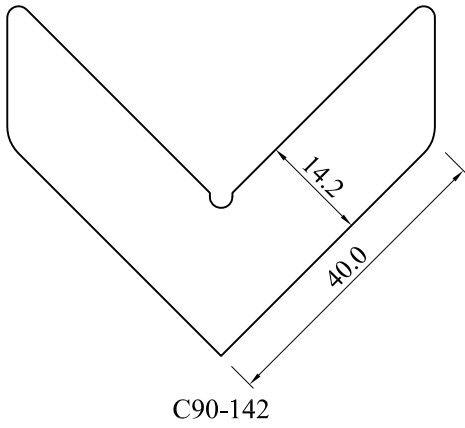
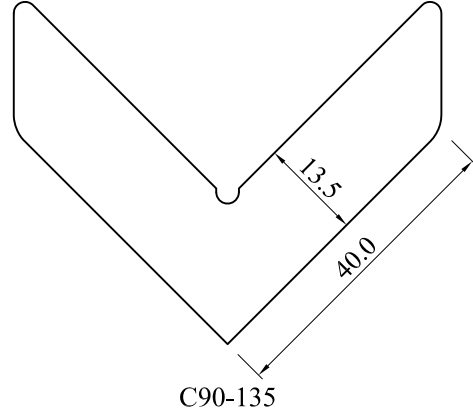
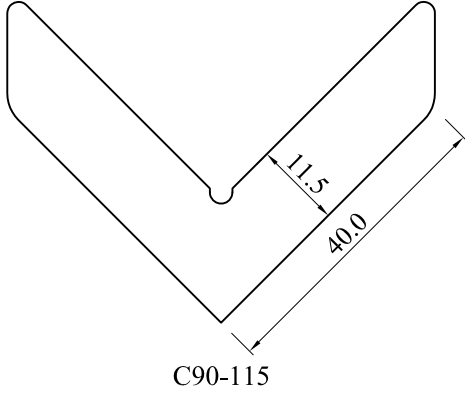
## EURO COMFORT SERİLER İÇİN GERDİRME MONTAJ DETAYI



1486-00  
1.477 kg/m

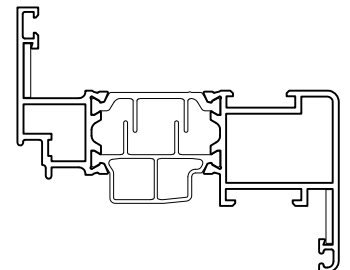
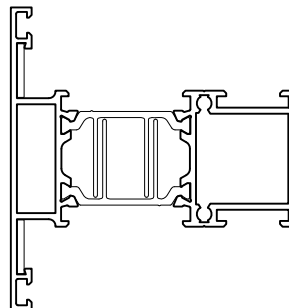
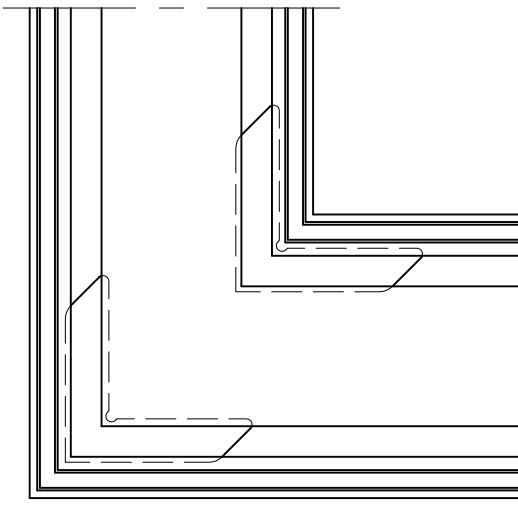


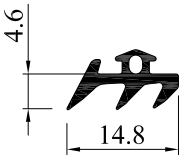
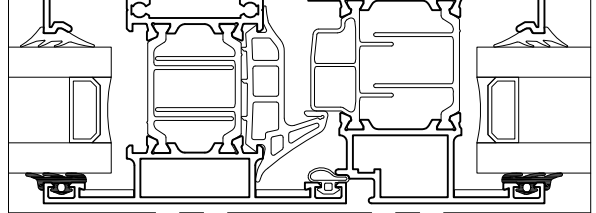
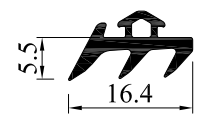
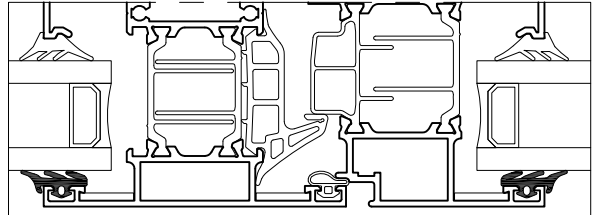
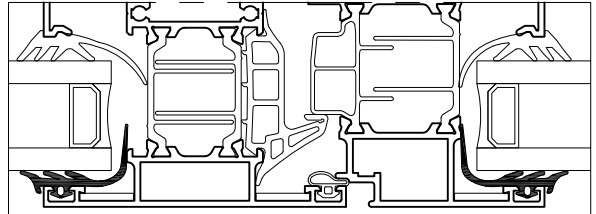
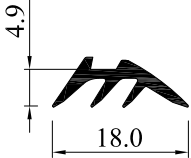
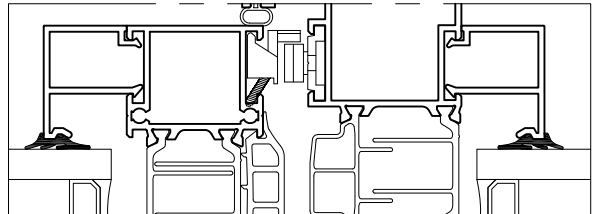
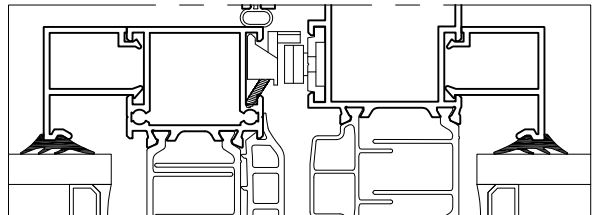
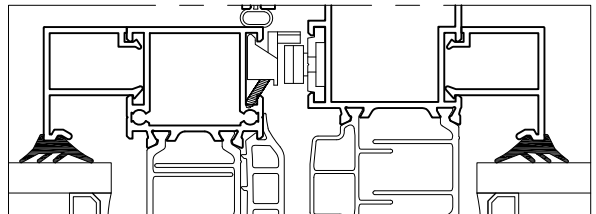
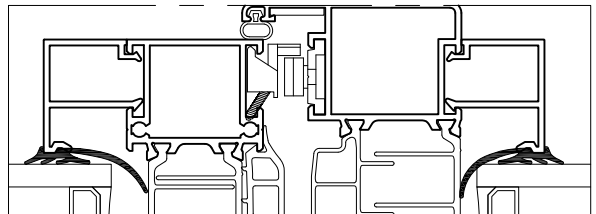
Çavuş Gönyeler  
*Set-Square*

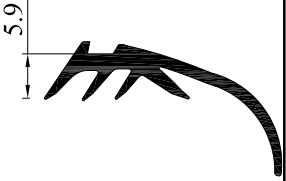
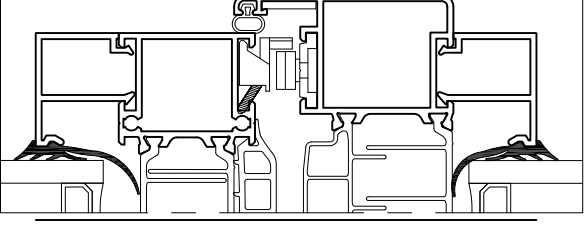
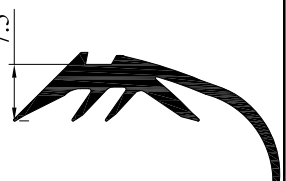
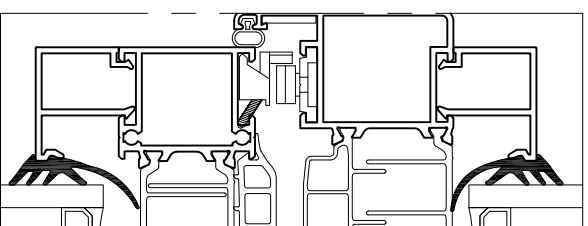
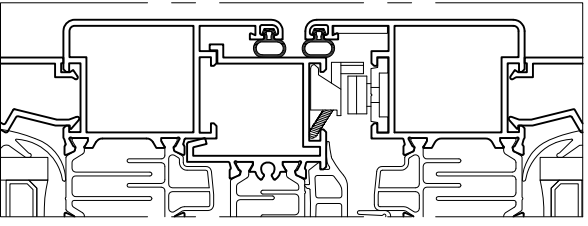
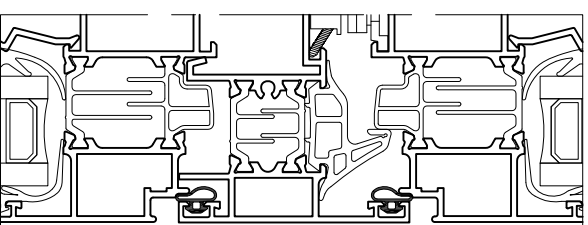
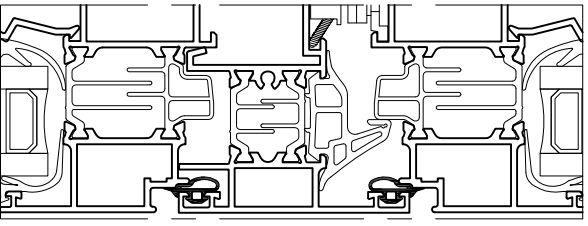
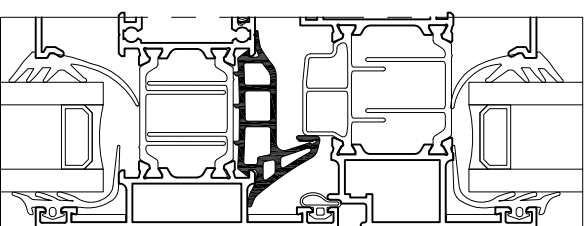
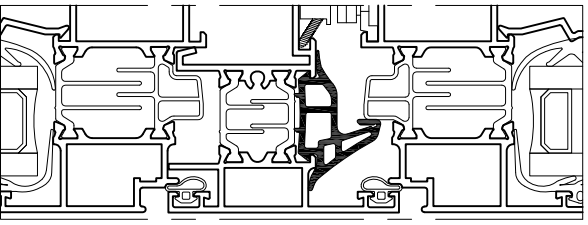


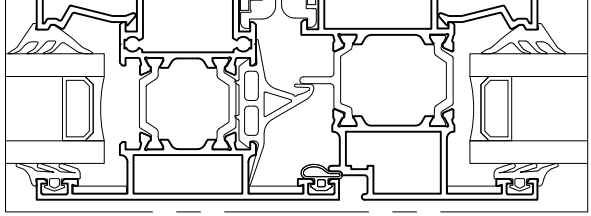
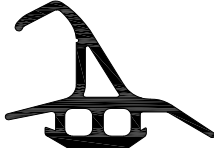
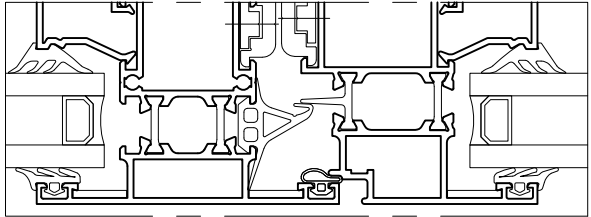
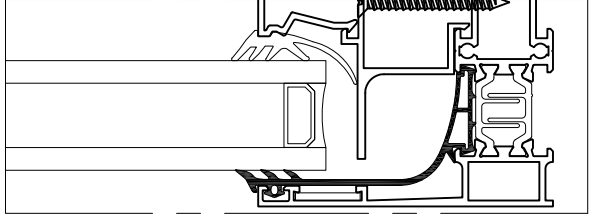
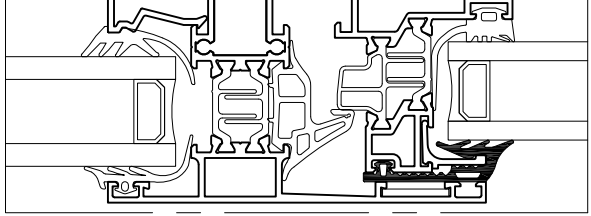
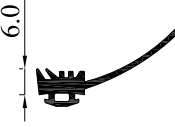
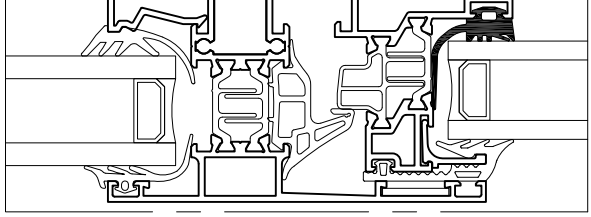
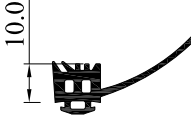
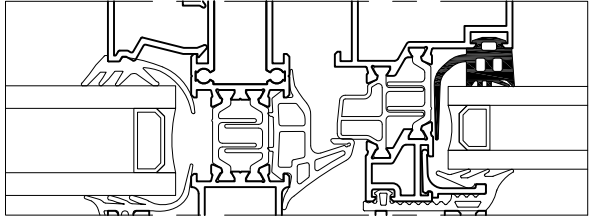
Ölçek: 1/1

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

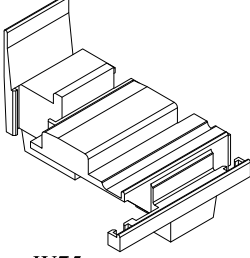
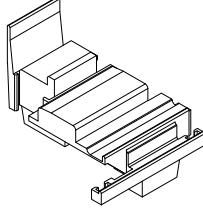
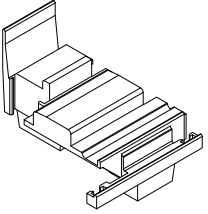
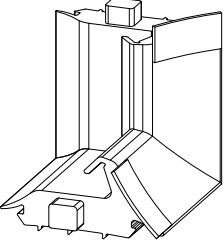
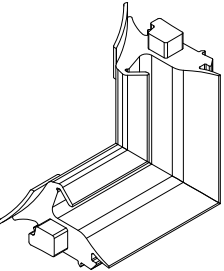
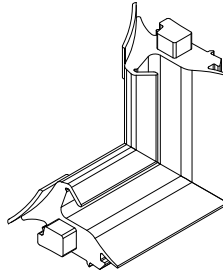
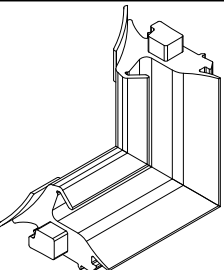


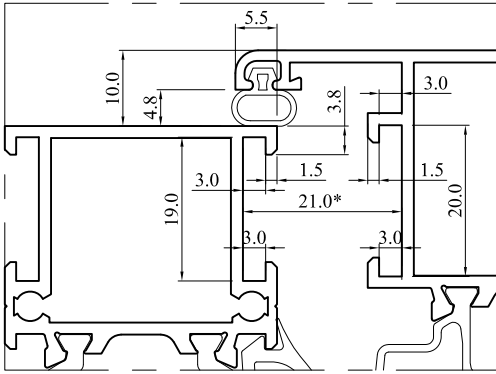
| Aksesuar Kodu                                      | Aksesuar Resmi                                                                      | Kullanılan Alan                                    | Montaj Çizimi                                                                        |
|----------------------------------------------------|-----------------------------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

| Aksesuar Kodu                                     | Aksesuar Resmi                                                                                   | Kullanılan Alan                                   | Montaj Çizimi                                                                        |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>FE-07</b><br>1Koli<br>15kg / 131m =<br>114gr/m |                 | Isı Yalıtımlı<br>İç Cam Fiteli<br>(3.5mm - 5.0mm) |    |
| <b>FE-08</b><br>1Koli<br>15kg / 108m =<br>138gr/m |                 | Isı Yalıtımlı<br>İç Cam Fiteli<br>(5.0mm - 6.5mm) |    |
| <b>F-11</b><br>1Koli<br>12kg / 500m =<br>24gr/m   |                | Kanat Fiteli                                      |   |
| <b>F-41</b><br>1Koli<br>12kg / 333m =<br>36.0gr/m |               | Kasa Fiteli                                       |  |
| <b>F-42</b><br>1Koli<br>12kg / 279m =<br>43.0gr/m |               | Kasa Fiteli                                       |  |
| <b>FE-75</b><br>1Koli<br>15kg / 50m =<br>298gr/m  | <br>Ölçek 1/2 | W75 Toz Fiteli                                    |  |
| <b>FE-65</b><br>1Koli<br>15kg / 61m =<br>242gr/m  | <br>Ölçek 1/2 | W65 Toz Fiteli                                    |  |

| Aksesuar Kodu                                            | Aksesuar Resmi                                                                                               | Kullanılan Alan                      | Montaj Çizimi                                                                        |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------|
| <b>FWS-65</b><br><br>1Koli<br>15kg / 87m =<br>172.0gr/m  | <br><br>Ölçek 1/2           | WS65 Toz Fitili                      |    |
| <b>FWS-14</b><br><br>1Koli<br>15kg / 113m =<br>132.0gr/m | <br><br>Ölçek 1/2           | WS14 Toz Fitili                      |    |
| <b>FE-65G</b><br><br>1Koli<br>15kg / 63m =<br>235gr/m    | <br><br>Ölçek 1/2          | W65 Gizli Kanat Sabit Cam Toz Fitili |   |
| <b>FE-1G</b><br><br>1Koli<br>15kg / 64m =<br>233gr/m.    | <br><br>Ölçek 1/2         | Gizli Kanat Dış Cam Fitili           |  |
| <b>FE-33</b><br><br>1Koli<br>15kg / 98m =<br>152gr/m     | <br>6.0<br><br>Ölçek 1/2  | Gizli Kanat Kanat Cam fitili         |  |
| <b>FE-35</b><br><br>1Koli<br>15kg / 77m =<br>194gr/m     | <br>10.0<br><br>Ölçek 1/2 | Gizli Kanat Kanat Cam Fitili         |  |



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

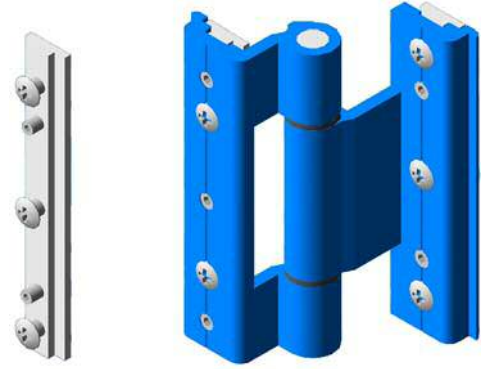
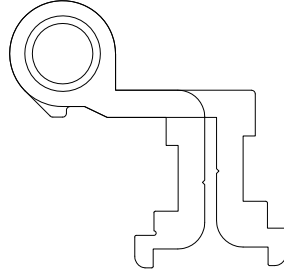


## AKSESUARLAR

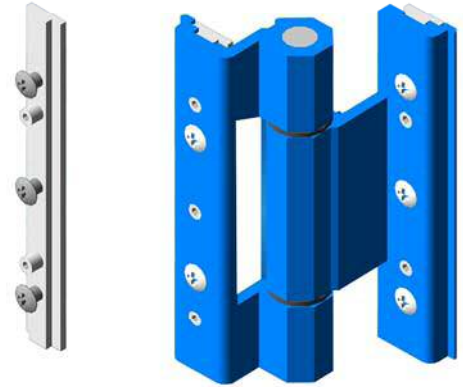
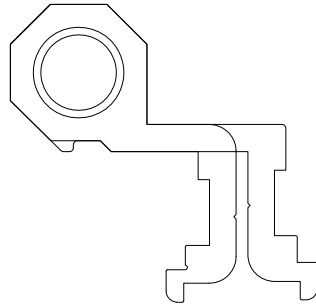
KASA KANAT İLİŞKİSİNDE EURO GROOVE  
STANDARTLARI DİKKATE ALINMIŞTIR

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.

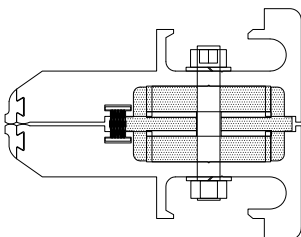
Euro Comfort  
Pencere Menteşesi



Euro Comfort  
Kapı Menteşesi

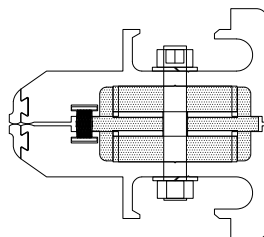


W75 Pivot Menteşe  
Detay için bkz. Sayfa 69



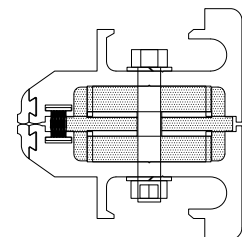
Ölçek 1/2

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

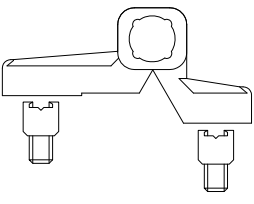
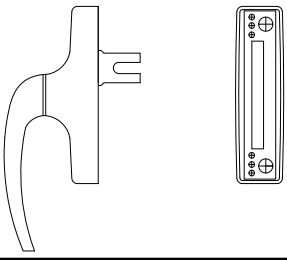
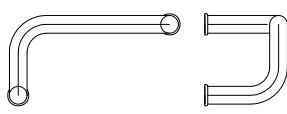
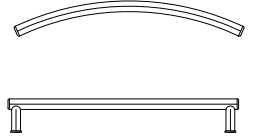
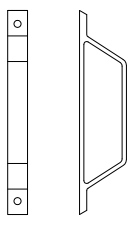
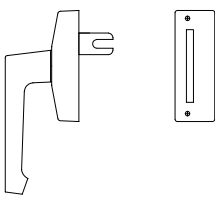
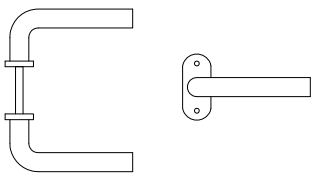
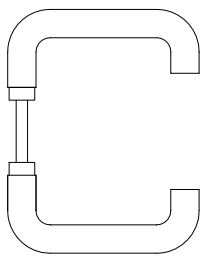
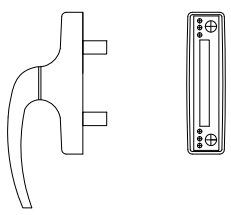
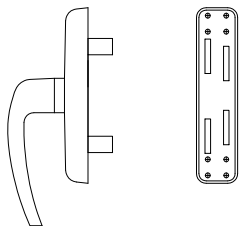
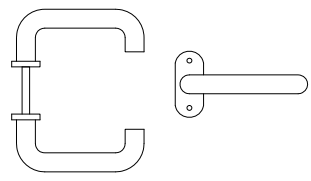
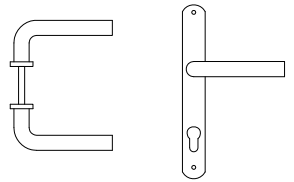
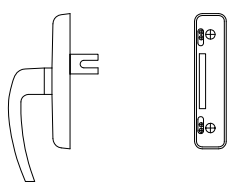
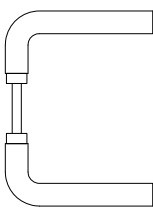
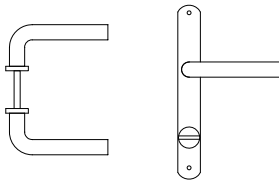
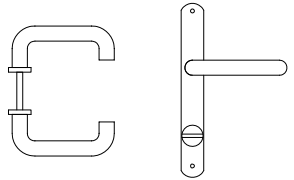
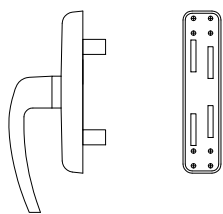
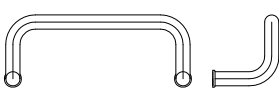
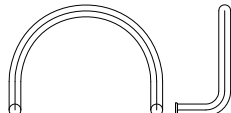


Ölçek 1/2

WS14 Pivot Menteşe  
Detay için bkz. Sayfa 170

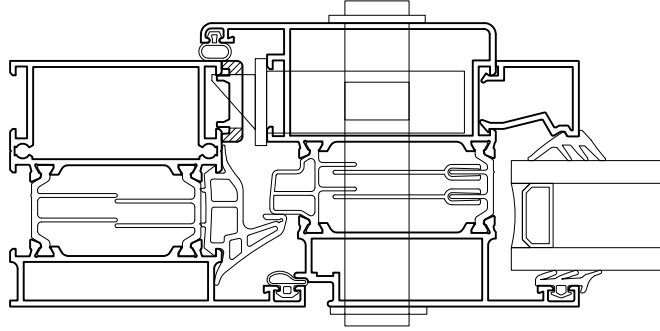
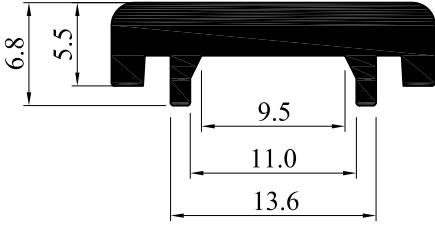


Ölçek 1/2

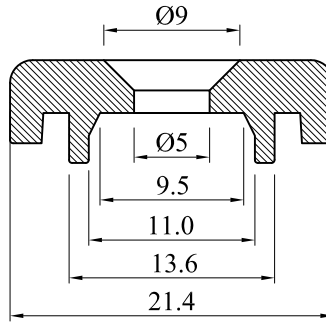
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|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <p>CKR-50.03.03<br/>CKR-50.03.04</p>                        | <p>CKR-10.01.01<br/>Eksenel kol tekli</p>        | <p>CKR-40.04.00<br/>Baston kol</p>                 | <p>CKR-40.08.00</p>                             |
| <p>CKR-30.01.06<br/>D Kol</p>                               | <p>CKR-10.01.03<br/>Eksenel kol</p>              | <p>CKR-20.01.02<br/>Sosis kol düz rozetli</p>      | <p>CKR-20.01.03<br/>Sosis kol kıvrık</p>        |
| <p>CKR-10.01.02<br/>Eksenel kol çiftli</p>                 | <p>CKR-10.01.05<br/>Eksenel kol çift dilli</p>  | <p>CKR-20.01.04<br/>Sosis kol kıvrık rozetli</p>  | <p>CKR-20.01.05<br/>Sosis kol düz aynalı</p>   |
| <p>CKR-10.01.04<br/>Eksenel kol tek dilli</p>             | <p>CKR-20.01.01<br/>Sosis kol düz</p>          | <p>CKR-20.01.14<br/>WC kol aynalı</p>            | <p>CKR-20.01.27<br/>WC aynalı kıvrık kol</p>  |
| <p>CKR-10.01.07<br/>Eksenel kol çift dilli anahtarlı</p>  | <p>CKR-40.01.00<br/>Kıvrık boru kol</p>        | <p>CKR-40.02.00<br/>Yarım ay boru kol</p>        |                                                                                                                                    |
| <p>GB-01 Bant<br/>1 Rulo</p> <p>Aluminyum folyolu<br/>butil bant</p>                                                                         | <p>GB-02 Bant<br/>1 Rulo</p> <p>PVC köpük bant</p>                                                                                | <p>GB-03 Bant<br/>1 Rulo</p> <p>Yalıtım membran</p>                                                                                  | <p>GB-04 Bant<br/>1 Rulo</p> <p>Çift tarafı yapışkanlı<br/>PVC esaslı bant</p>                                                     |

Euro Comfort Serisinde Uygulanan Kilit Karşılığı Kesitleri ve Kullanım Detayı

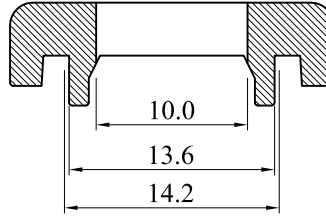
Dolu Kesit 14971-00 Ölçek: 2/1



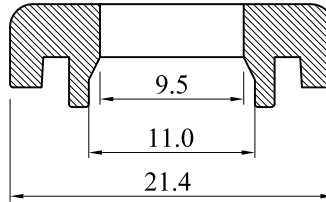
A Kesiti Ölçek: 2/1



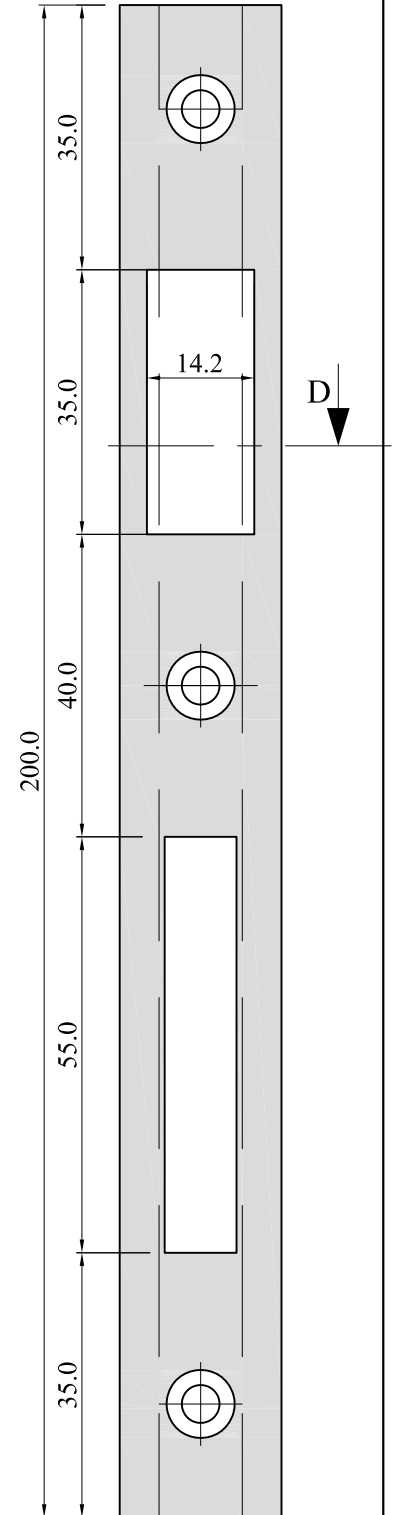
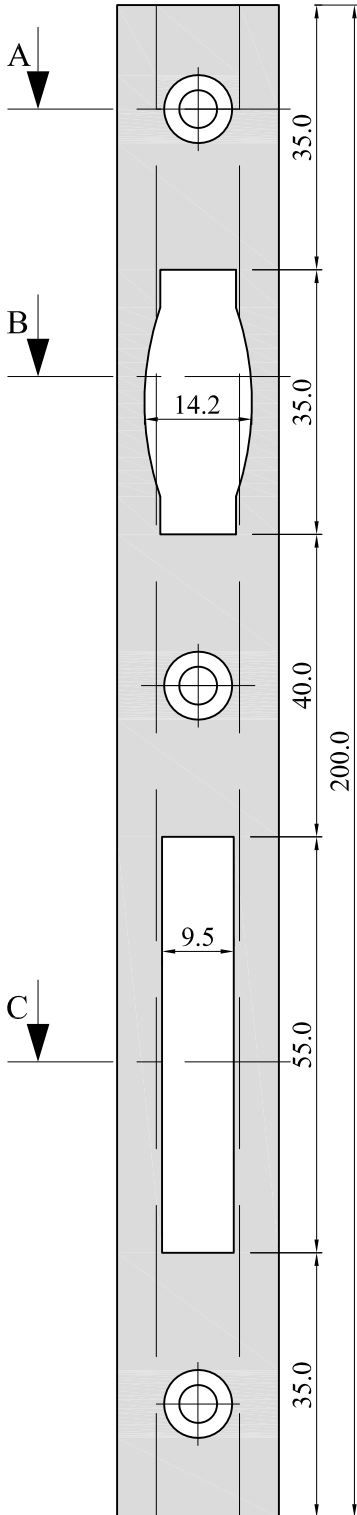
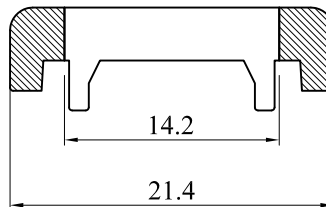
B Kesiti Ölçek: 2/1



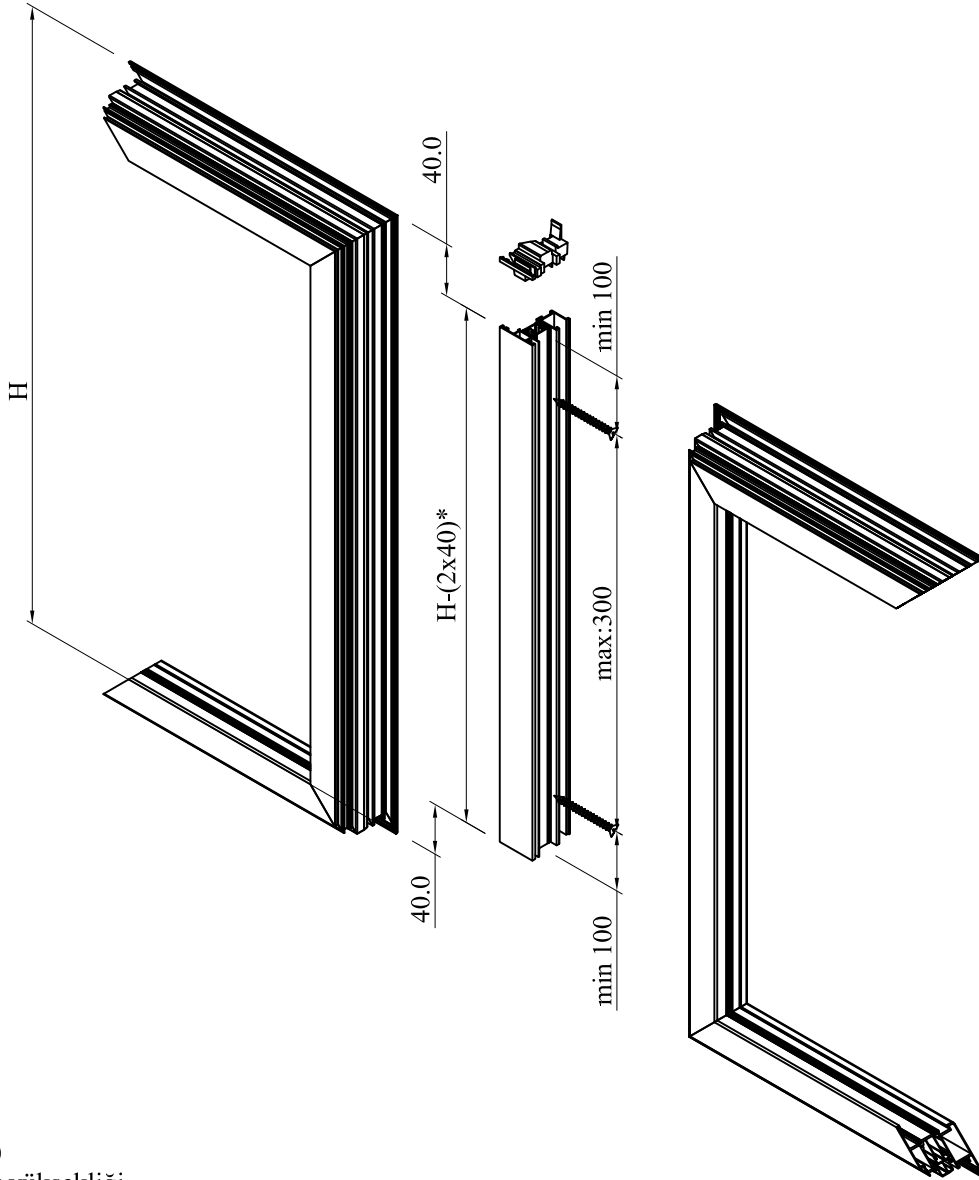
C Kesiti Ölçek: 2/1



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.

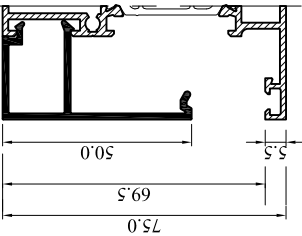
### Euro Comfort Doğrama Sistemleri Cam Çıtalı

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

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

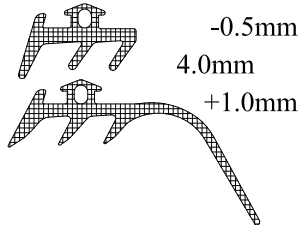
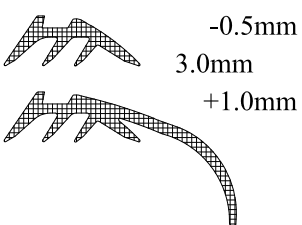
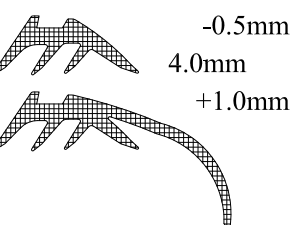
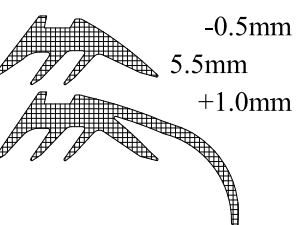
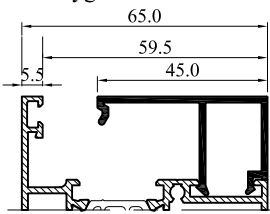
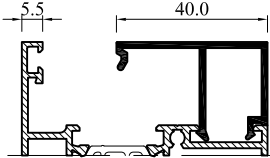
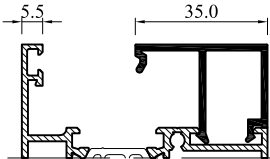
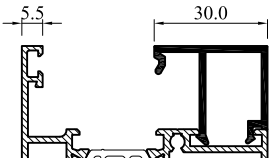
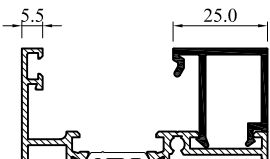
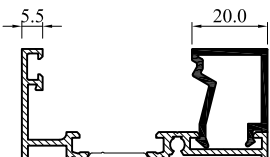
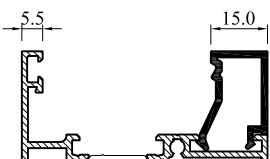
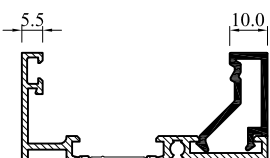
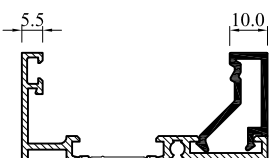
|                       |                       |      |      |                       |                       |      |
|-----------------------|-----------------------|------|------|-----------------------|-----------------------|------|
| W450-16<br>0.475 Kg/m | W450-12<br>0.366 Kg/m | 50.0 | 22.0 |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

W75 Doğrama Sistemi Cam Fitiği & Çita Seçim Tablosu

| Cam<br>Ölçüsü | Kullanılabilircek Cam Fitipleri |               | Elemenların Ölçüleri |                   |                  |             |      | Toplam  | Kullanılan<br>Çita Kodu | Uygulama Resmi                                                                      |
|---------------|---------------------------------|---------------|----------------------|-------------------|------------------|-------------|------|---------|-------------------------|-------------------------------------------------------------------------------------|
|               | Dış Cam<br>Fitiği               | İç Cam Fitiği | Cam<br>(mm)          | Dış Cam<br>Fitiği | İç Cam<br>Fitiği | Cam<br>(mm) | Çita |         |                         |                                                                                     |
| 9.0 mm        | F-06A                           | F-08          | 9.0                  | 4.0               | 6.5              | 50.0        | 50.0 | 69.5 mm | W450-16                 |  |
| 10.0 mm       | F-06A                           | F-08          | 10.0                 | 4.0               | 5.5              | 50.0        | 50.0 |         |                         |                                                                                     |
| 11.0 mm       | F-06A                           | F-08 / F-07   | 11.0                 | 4.0               | 4.5              | 50.0        | 50.0 |         |                         |                                                                                     |
| 12.0 mm       | F-06A                           | F-07 / F-07A  | 12.0                 | 4.0               | 3.5              | 50.0        | 50.0 |         |                         |                                                                                     |
| 13.0 mm       | F-06A                           | F-07A         | 13.0                 | 4.0               | 2.5              | 50.0        | 50.0 |         |                         |                                                                                     |
| 14.0 mm       | * F-06A                         | F-08          | 14.0                 | 4.0               | 6.5              | 45.0        | 45.0 |         |                         |                                                                                     |
| 15.0 mm       | F-06A                           | F-08          | 15.0                 | 4.0               | 5.5              | 45.0        | 45.0 |         |                         |                                                                                     |
| 16.0 mm       | F-06A                           | F-08 / F-07   | 16.0                 | 4.0               | 4.5              | 45.0        | 45.0 |         |                         |                                                                                     |
| 17.0 mm       | F-06A                           | F-07 / F-07A  | 17.0                 | 4.0               | 3.5              | 45.0        | 45.0 |         |                         |                                                                                     |
| 18.0 mm       | F-06A                           | F-07A         | 18.0                 | 4.0               | 2.5              | 45.0        | 45.0 |         |                         |                                                                                     |
| 19.0 mm       | * F-06A                         | F-08          | 19.0                 | 4.0               | 6.5              | 40.0        | 40.0 |         |                         |                                                                                     |
| 20.0 mm       | F-06A                           | F-08          | 20.0                 | 4.0               | 5.5              | 40.0        | 40.0 |         |                         |                                                                                     |
| 21.0 mm       | F-06A                           | F-08 / F-07   | 21.0                 | 4.0               | 4.5              | 40.0        | 40.0 |         |                         |                                                                                     |
| 22.0 mm       | F-06A                           | F-07 / F-07A  | 22.0                 | 4.0               | 3.5              | 40.0        | 40.0 |         |                         |                                                                                     |
| 23.0 mm       | F-06A                           | F-07A         | 23.0                 | 4.0               | 2.5              | 40.0        | 40.0 |         |                         |                                                                                     |
| 24.0 mm       | * F-06A                         | F-08          | 24.0                 | 4.0               | 6.5              | 35.0        | 35.0 |         |                         |                                                                                     |
| 25.0 mm       | F-06A                           | F-08          | 25.0                 | 4.0               | 5.5              | 35.0        | 35.0 |         |                         |                                                                                     |
| 26.0 mm       | F-06A                           | F-08 / F-07   | 26.0                 | 4.0               | 4.5              | 35.0        | 35.0 |         |                         |                                                                                     |
| 27.0 mm       | F-06A                           | F-07 / F-07A  | 27.0                 | 4.0               | 3.5              | 35.0        | 35.0 |         |                         |                                                                                     |
| 28.0 mm       | F-06A                           | F-07A         | 28.0                 | 4.0               | 2.5              | 35.0        | 35.0 |         |                         |                                                                                     |
| 29.0 mm       | * F-06A                         | F-08          | 29.0                 | 4.0               | 6.5              | 30.0        | 30.0 |         |                         |                                                                                     |
| 30.0 mm       | F-06A                           | F-08          | 30.0                 | 4.0               | 5.5              | 30.0        | 30.0 |         |                         |                                                                                     |
| 31.0 mm       | F-06A                           | F-08 / F-07   | 31.0                 | 4.0               | 4.5              | 30.0        | 30.0 |         |                         |                                                                                     |
| 32.0 mm       | F-06A                           | F-07 / F-07A  | 32.0                 | 4.0               | 3.5              | 30.0        | 30.0 |         |                         |                                                                                     |
| 33.0 mm       | F-06A                           | F-07A         | 33.0                 | 4.0               | 2.5              | 30.0        | 30.0 |         |                         |                                                                                     |
| 34.0 mm       | * F-06A                         | F-08          | 34.0                 | 4.0               | 6.5              | 25.0        | 25.0 |         |                         |                                                                                     |
| 35.0 mm       | F-06A                           | F-08          | 35.0                 | 4.0               | 5.5              | 25.0        | 25.0 |         |                         |                                                                                     |
| 36.0 mm       | F-06A                           | F-08 / F-07   | 36.0                 | 4.0               | 4.5              | 25.0        | 25.0 |         |                         |                                                                                     |
| 37.0 mm       | F-06A                           | F-07 / F-07A  | 37.0                 | 4.0               | 3.5              | 25.0        | 25.0 |         |                         |                                                                                     |
| 38.0 mm       | F-06A                           | F-07A         | 38.0                 | 4.0               | 2.5              | 25.0        | 25.0 |         |                         |                                                                                     |
| 39.0 mm       | * F-06A                         | F-08          | 39.0                 | 4.0               | 6.5              | 20.0        | 20.0 |         |                         |                                                                                     |
| 40.0 mm       | F-06A                           | F-08          | 40.0                 | 4.0               | 5.5              | 20.0        | 20.0 |         |                         |                                                                                     |
| 41.0 mm       | F-06A                           | F-08 / F-07   | 41.0                 | 4.0               | 4.5              | 20.0        | 20.0 |         |                         |                                                                                     |
| 42.0 mm       | F-06A                           | F-07 / F-07A  | 42.0                 | 4.0               | 3.5              | 20.0        | 20.0 |         |                         |                                                                                     |
| 43.0 mm       | F-06A                           | F-07A         | 43.0                 | 4.0               | 2.5              | 20.0        | 20.0 |         |                         |                                                                                     |
| 44.0 mm       | * F-06A                         | F-08          | 44.0                 | 4.0               | 6.5              | 15.0        | 15.0 |         |                         |                                                                                     |
| 45.0 mm       | F-06A                           | F-08          | 45.0                 | 4.0               | 5.5              | 15.0        | 15.0 |         |                         |                                                                                     |
| 46.0 mm       | F-06A                           | F-08 / F-07   | 46.0                 | 4.0               | 4.5              | 15.0        | 15.0 |         |                         |                                                                                     |
| 47.0 mm       | F-06A                           | F-07 / F-07A  | 47.0                 | 4.0               | 3.5              | 15.0        | 15.0 |         |                         |                                                                                     |
| 48.0 mm       | F-06A                           | F-07A         | 48.0                 | 4.0               | 2.5              | 15.0        | 15.0 |         |                         |                                                                                     |
| 49.0 mm       | * F-06A                         | F-08          | 49.0                 | 4.0               | 6.5              | 10.0        | 10.0 |         |                         |                                                                                     |
| 50.0 mm       | F-06A                           | F-08          | 50.0                 | 4.0               | 5.5              | 10.0        | 10.0 |         |                         |                                                                                     |
| 51.0 mm       | F-06A                           | F-08 / F-07   | 51.0                 | 4.0               | 4.5              | 10.0        | 10.0 |         |                         |                                                                                     |
| 52.0 mm       | F-06A                           | F-07 / F-07A  | 52.0                 | 4.0               | 3.5              | 10.0        | 10.0 |         |                         |                                                                                     |
| 53.0 mm       | F-06A                           | F-07A         | 53.0                 | 4.0               | 2.5              | 10.0        | 10.0 |         |                         |                                                                                     |

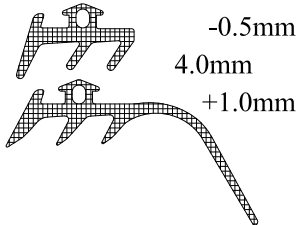
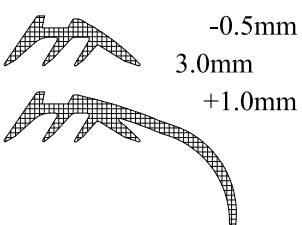
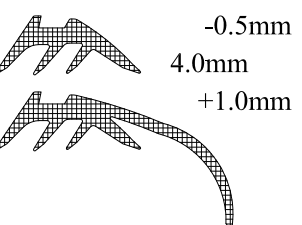
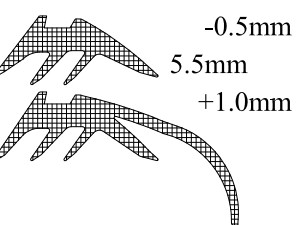
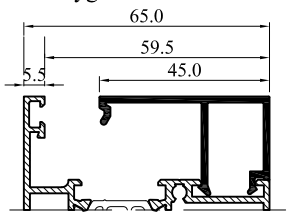
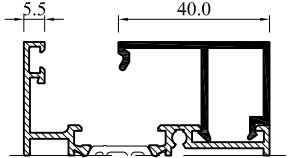
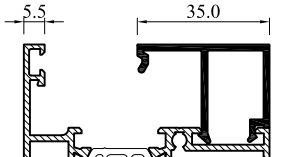
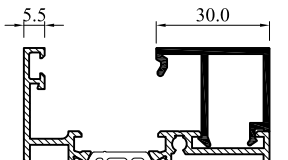
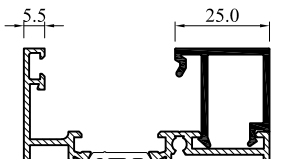
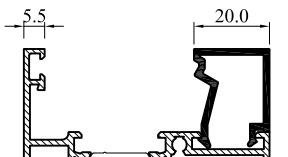
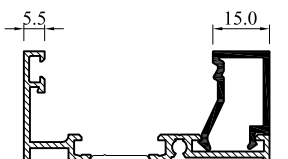
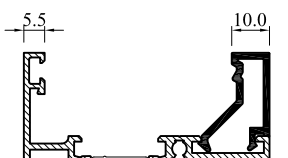
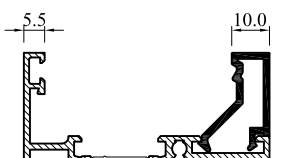
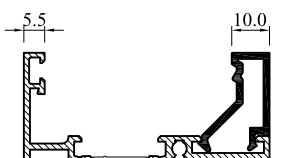
\* Fitiği limitte sıkıştırılmıştır. Her iki fitiğin limitte kullanılmış olması halinde dikkatli olunmalıdır.

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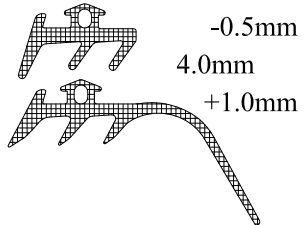
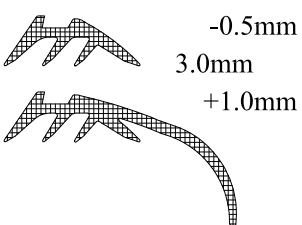
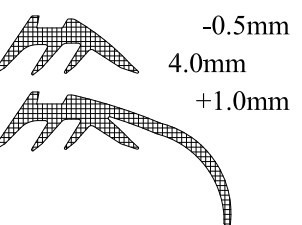
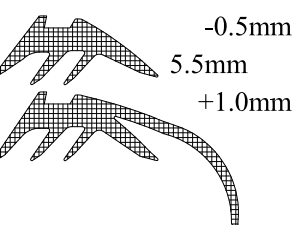
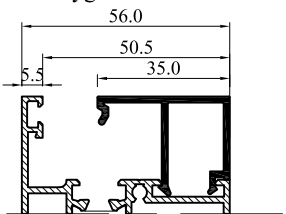
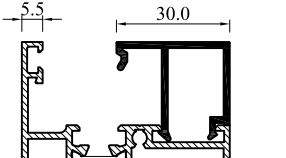
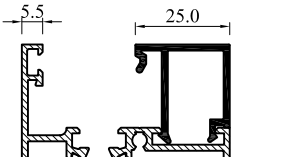
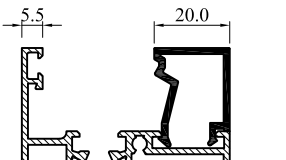
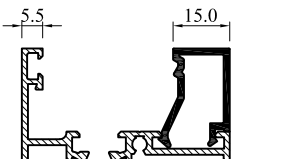
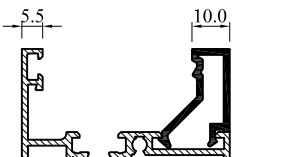
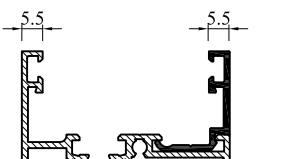
| DIŞ CAM FİTİLİ                                                                                                                          |                                |               | İÇ CAM FİTİLLERİ                                                                                                                        |                |                                                                                                                                        |            |                                                                                                                                         |                      |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|
| <b>F-06A / FE-06A</b><br><br>-0.5mm<br>4.0mm<br>+1.0mm |                                |               | <b>F-07A / FE-07A</b><br><br>-0.5mm<br>3.0mm<br>+1.0mm |                | <b>F-07 / FE-07</b><br><br>-0.5mm<br>4.0mm<br>+1.0mm |            | <b>F-08 / FE-08</b><br><br>-0.5mm<br>5.5mm<br>+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       |                                                                                                                                         |                      |                                                                                       |



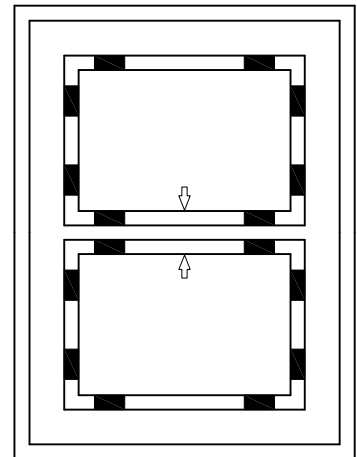
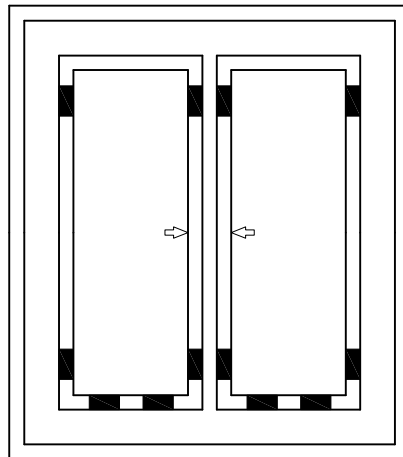
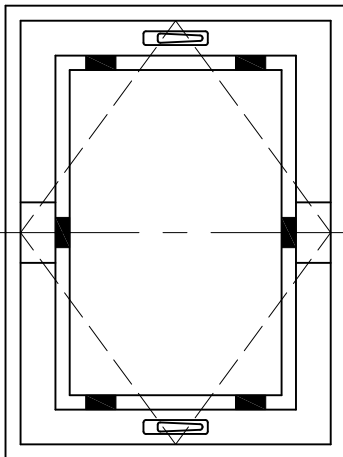
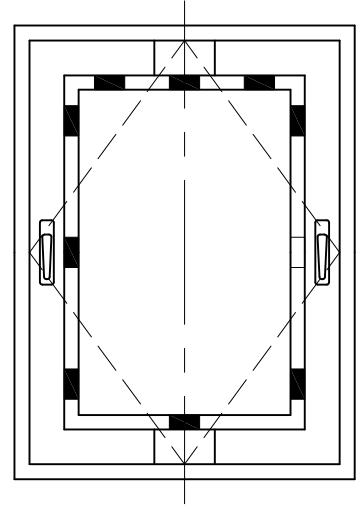
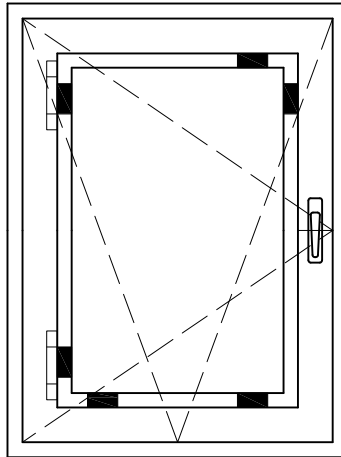
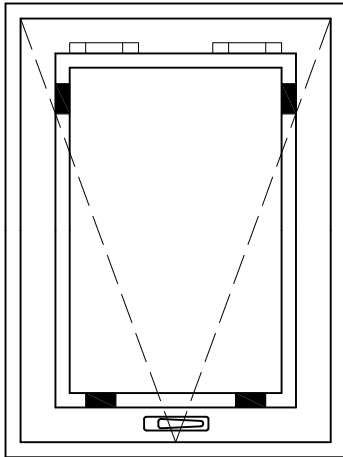
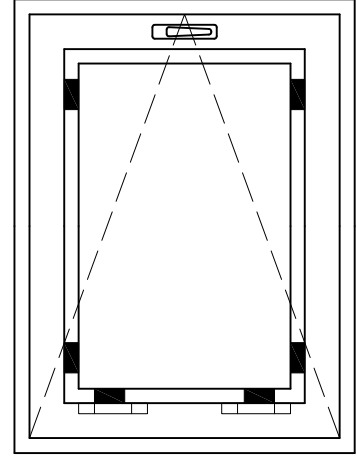
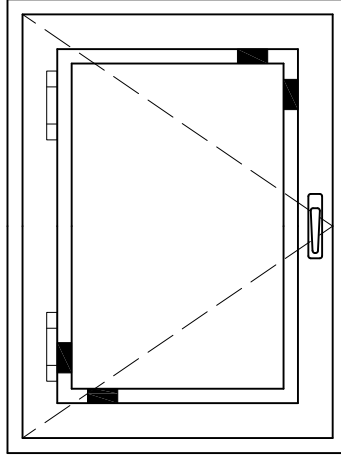
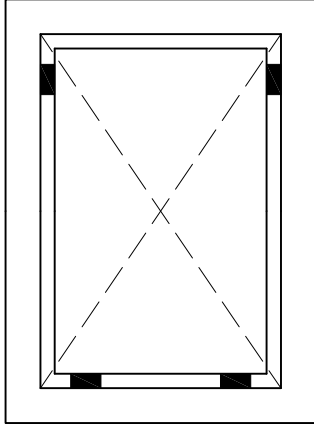
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| DIŞ CAM FİTİLİ                                                                                      |                                |               | İÇ CAM FİTİLLERİ                                                                                    |                |                                                                                                    |            |                                                                                                     |                                                                                       |                                                                                       |
|-----------------------------------------------------------------------------------------------------|--------------------------------|---------------|-----------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| F-06A / FE-06A<br> |                                |               | F-07A / FE-07A<br> |                | F-07 / FE-07<br> |            | F-08 / FE-08<br> |                                                                                       |                                                                                       |
| -0.5mm<br>4.0mm<br>+1.0mm                                                                           |                                |               | -0.5mm<br>3.0mm<br>+1.0mm                                                                           |                | -0.5mm<br>4.0mm<br>+1.0mm                                                                          |            | -0.5mm<br>5.5mm<br>+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       | W410-16                                                                                             |  |                                                                                       |
| 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       | W410-16                                                                                             |  |                                                                                       |
| 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                                                                                           |                |                                                                                                           |            |                                                                                                            |                                                                                       |                                                                                       |
|------------------------------------------------------------------------------------------------------------|--------------------------------|---------------|------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>F-06A / FE-06A</b><br> |                                |               | <b>F-07A / FE-07A</b><br> |                | <b>F-07 / FE-07</b><br> |            | <b>F-08 / FE-08</b><br> |                                                                                       |                                                                                       |
| 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        |                                                                                                            |                                                                                       |                                                                                       |

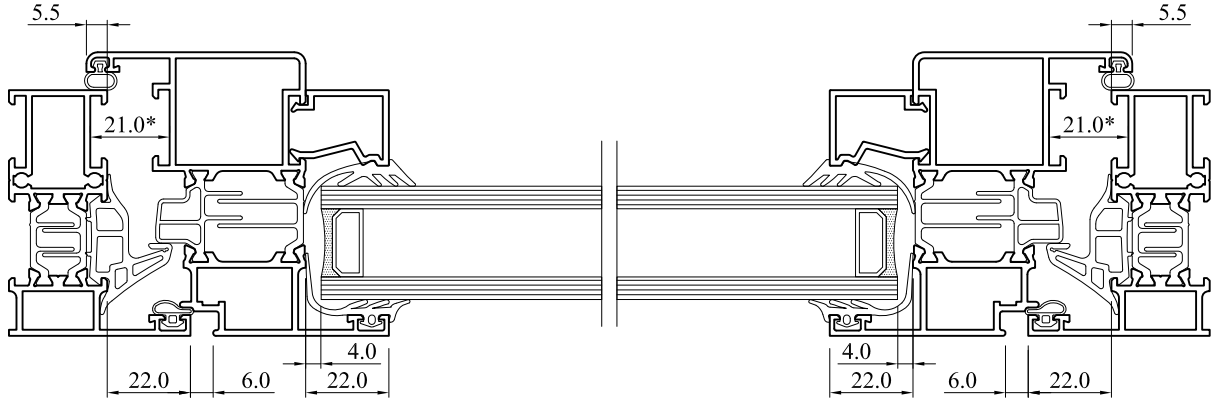
## CAM MONTAJI TAKOZLAMA PRENSİPLERİ



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

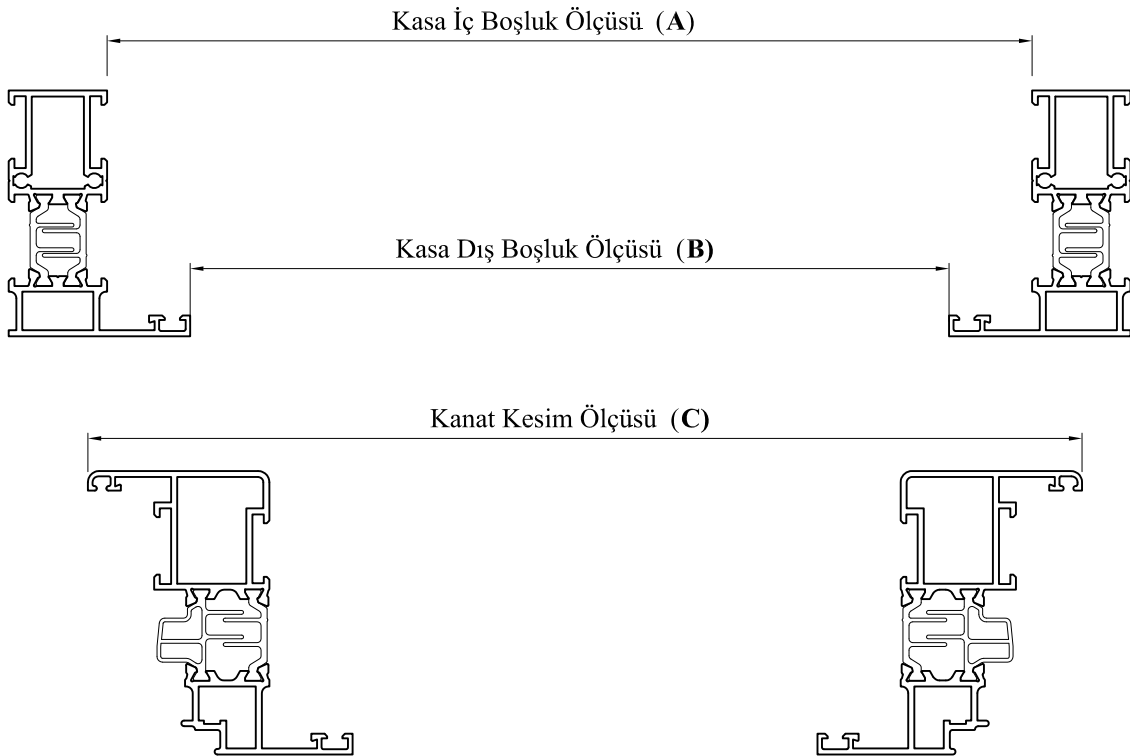
Not 2: Takozların uzunluğu ortalama 80-100mm; enleri ise, yalıtımlı camların her ikisinin de desteklenmesi bakımından cam kalınlığından 2mm fazla olmalıdır.

### 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

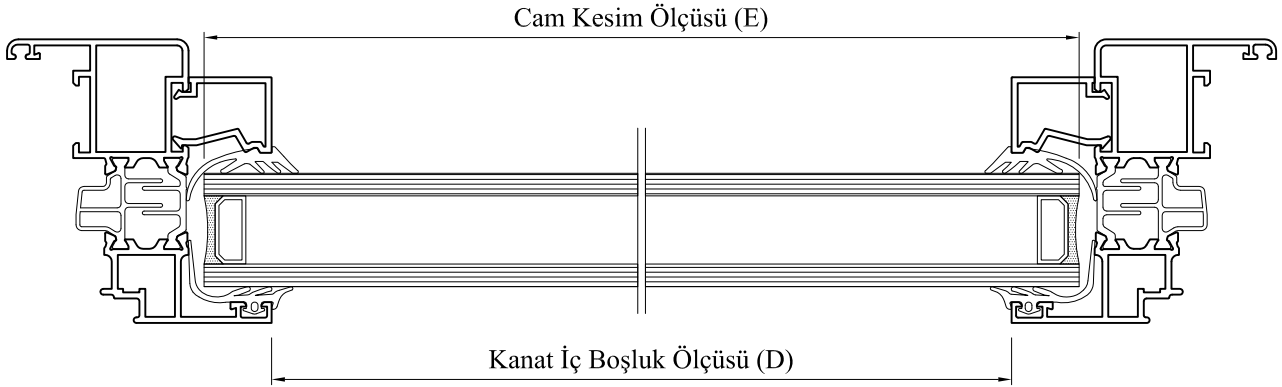


#### (C) KANAT KESİM ÖLÇÜSÜ

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

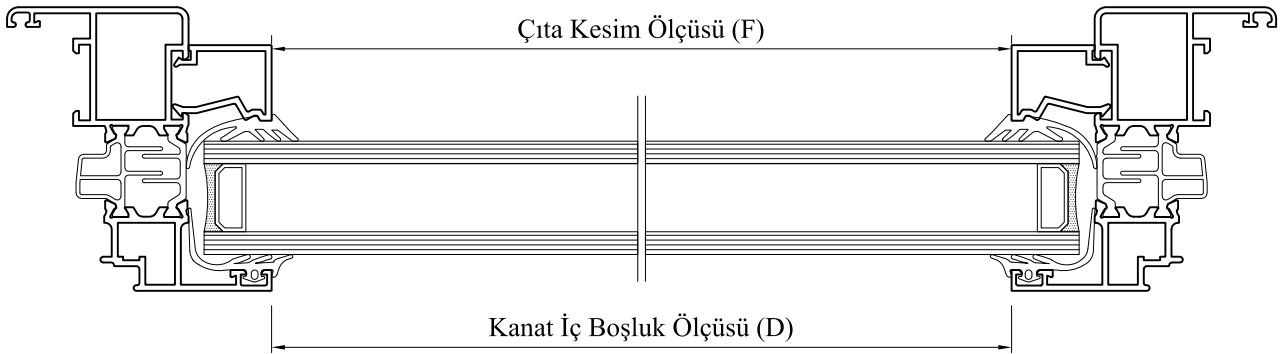
(B) Kasa Dış Boşluk Ölçüsüne Göre;  $C = B + (22.0\text{mm} \times 2) + (5.5\text{mm} \times 2) \implies C = B + 55\text{mm}$

## EURO COMFORT SİSTEMLERİNDE KESİM ÖLÇÜLERİ BELİRLEME



### (E) CAM KESİM ÖLÇÜSÜ

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



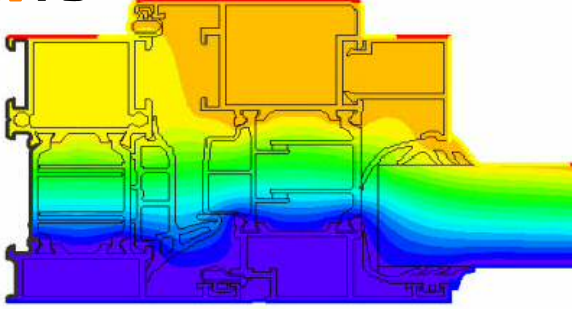
### (F) ÇITA KESİM ÖLÇÜSÜ

(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/(m<sup>2</sup>.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/(m<sup>2</sup>.K)

**W75**



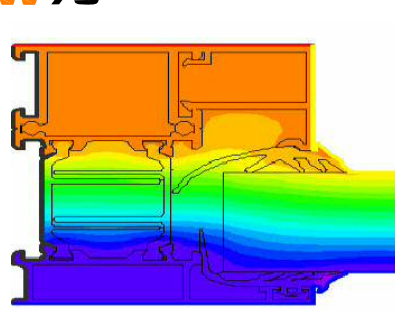
Kasa: 75031-16 Kanat: 75381-16  
Lf: 150.5 mm Uf: 1.744 W/(m<sup>2</sup>.K)

**W75**



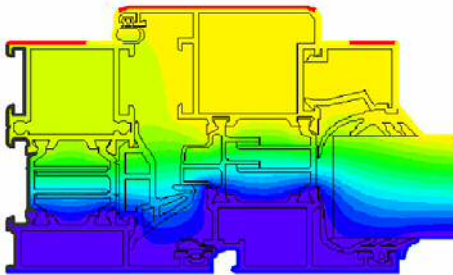
Kasa: 75221-16 Kanat: 75361-16  
Lf: 132.5 mm Uf: 1.852 W/(m<sup>2</sup>.K)

**W75**



Kasa: 75021-16  
Lf: 58 mm Uf: 1.487 W/(m<sup>2</sup>.K)

**W65**



Kasa: 65021-16 Kanat: 65361-16  
Lf: 110.5 mm Uf: 2.156 W/(m<sup>2</sup>.K)

**W65**



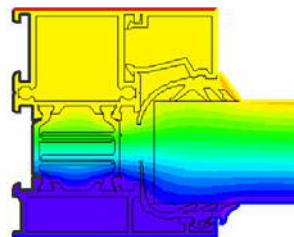
Kasa: 65031-16 Kanat: 65381-16  
Lf: 150.5 mm Uf: 2.053 W/(m<sup>2</sup>.K)

**W65**



Kasa: 65221-16 Kanat: 65361-16  
Lf: 132.5 mm Uf: 2.198 W/(m<sup>2</sup>.K)

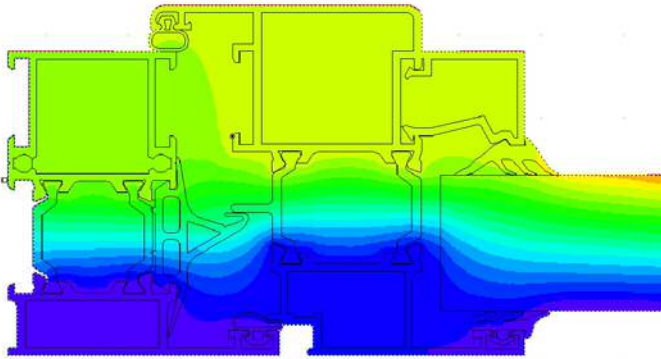
**W65**



Kasa: 65021-16  
Lf: 58 mm Uf: 1.925 W/(m<sup>2</sup>.K)

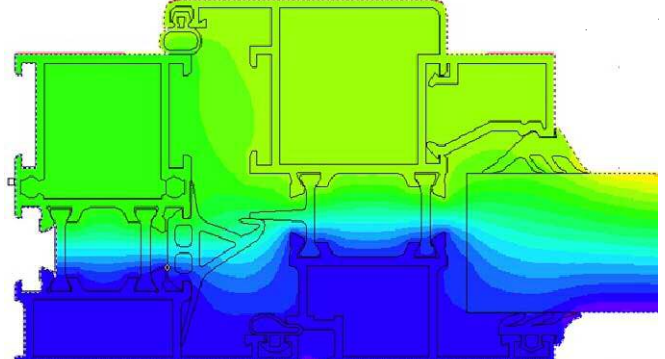


### WS65



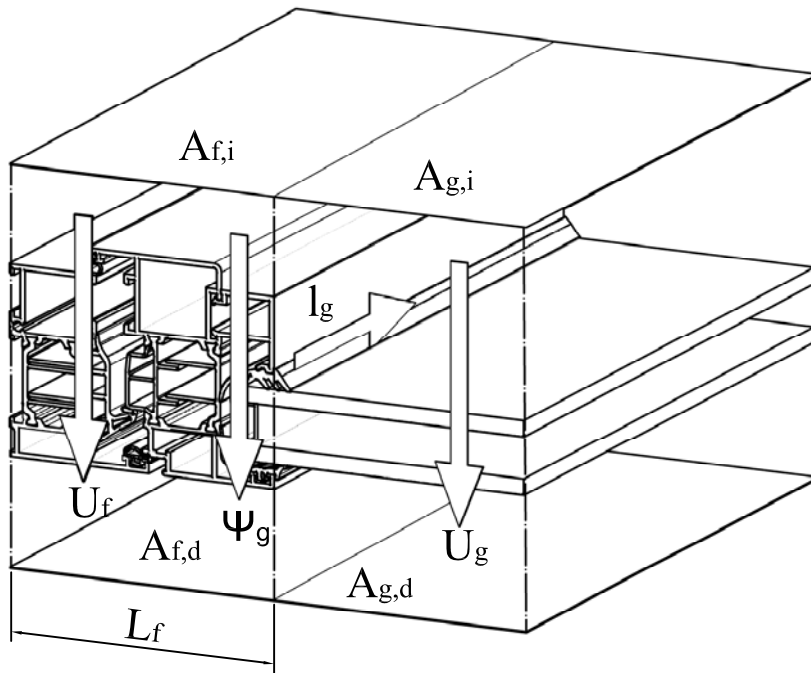
Kasa: 65021-16 Kanat: 65361-16  
Lf: 110.5 mm Uf: 2.647 W/(m².K)

### 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)  
 $\Psi_g$  = Doğrusal Isıl İletim Kat Sayısı (W/mK)  
 $L_f$  = Profilin Uzunluğu (mm)

| $\Psi_g$ (W/mK) |               | ISICAM (II,III) |       |
|-----------------|---------------|-----------------|-------|
|                 |               | Standart        | Low-E |
| Isıcam          | Standart      | 0.08            | 0.11  |
| Çıtası          | Geliştirilmiş | 0.06            | 0.08  |

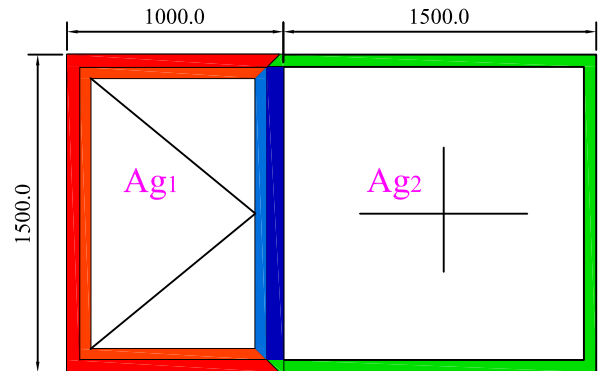
Tek cam kullanımında  $\Psi_g \times l_g = 1$  alınır.

(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.

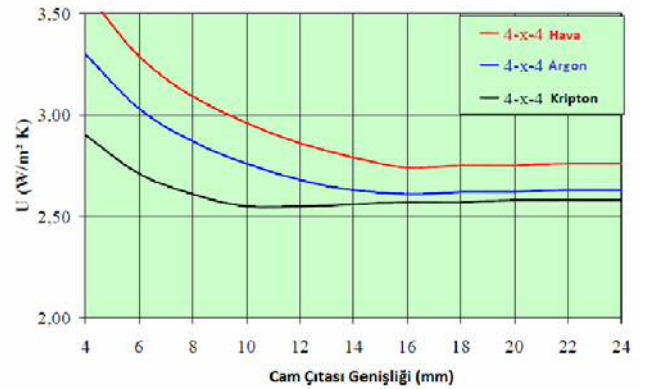
## CAM SEÇİMİ İÇİN GENEL BİLGİLENDİRME

TABLO 1: Isıcam Performans Tablosu

| Dış Cam + Ara Boşluk + İç Cam |                                    | Gün Işığı   |          | Güneş Enerjisi     |                     | Isı Geçirgenlik Katsayısı (W/m <sup>2</sup> K 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 (m <sup>2</sup> ) |
|------------------|---------------|-----------------------------------|------------------------|
| 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.

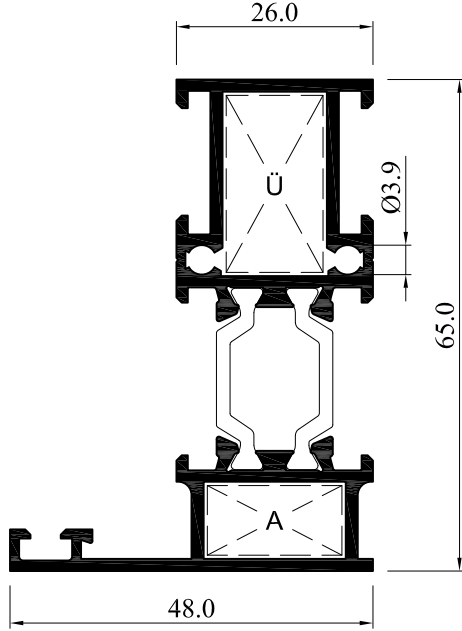
- Cam yuvası yeterli genişlikte ise ihtiyaca göre daha kalın cam ve daha geniş ara boşluk seçilebilir.

- Camın ağırlığı her mm kalınlık için 2.5 kg/m<sup>2</sup>'dir

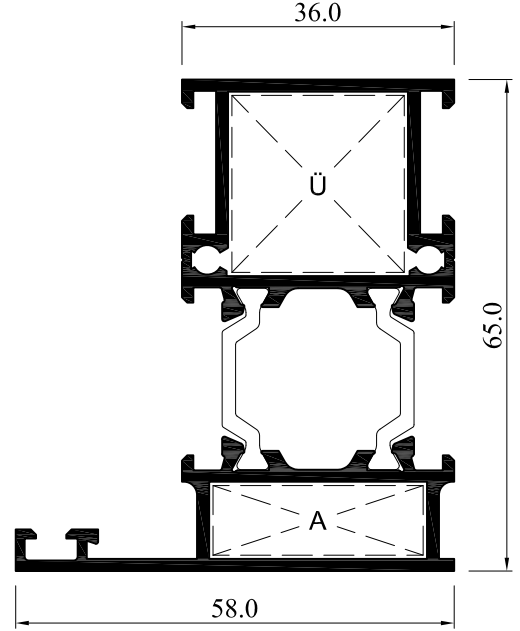




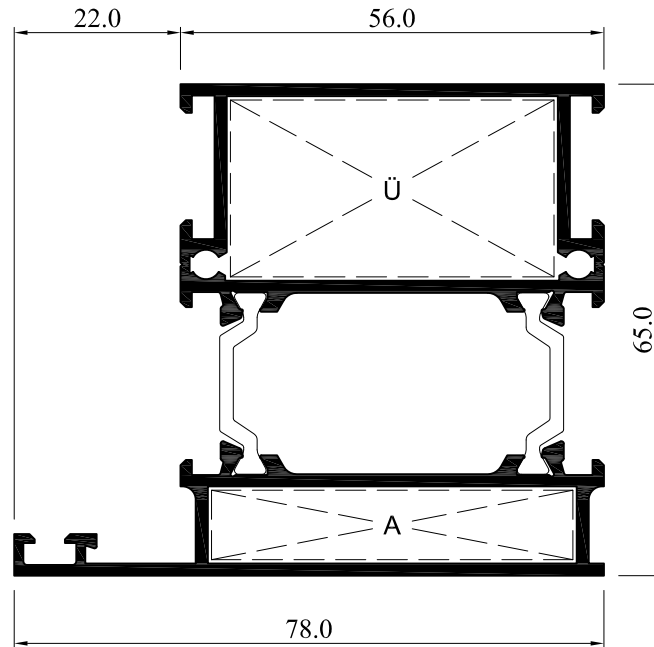
KASALAR / FRAMES



WS65011-16  
WS65011-20



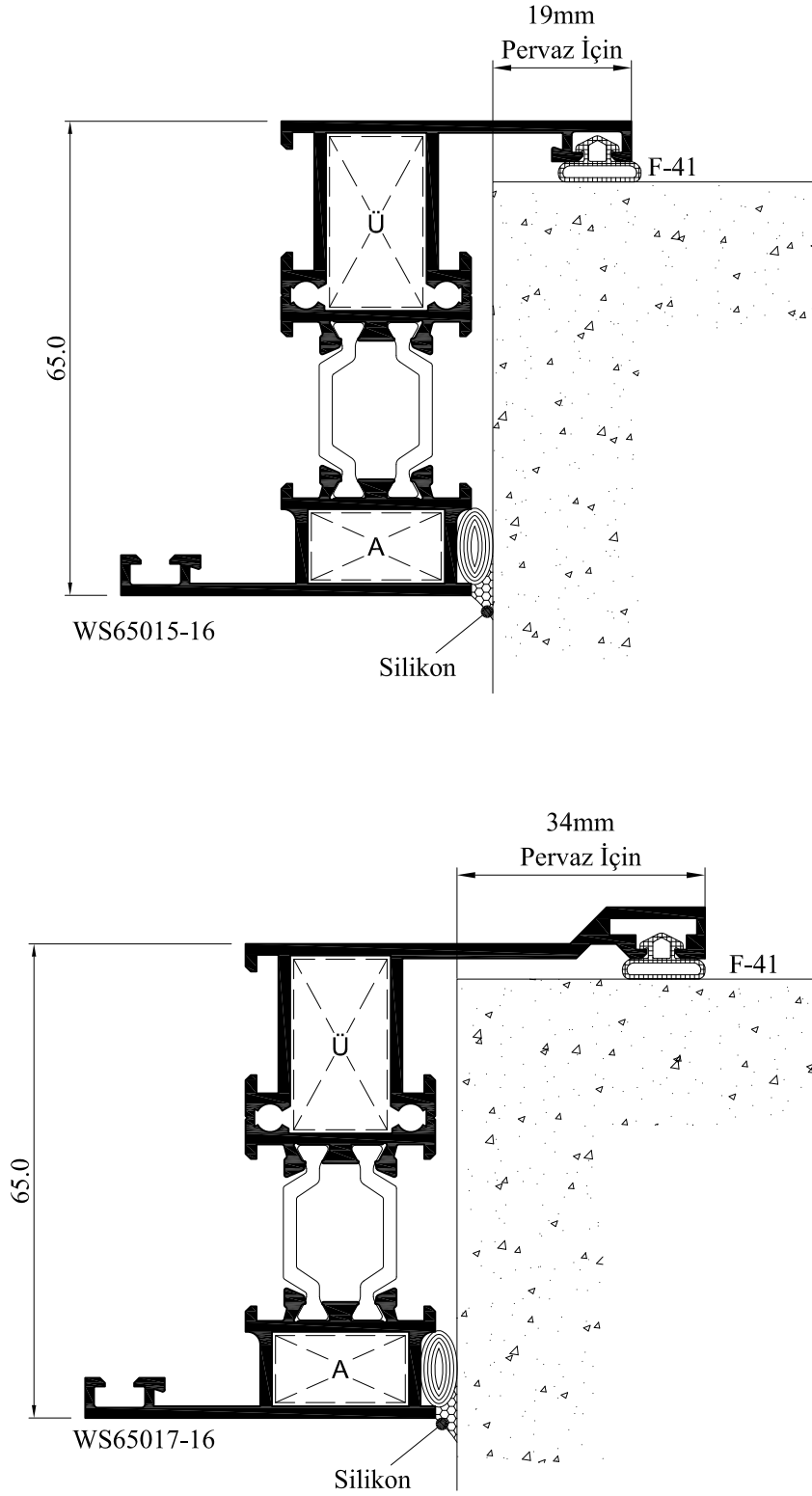
WS65021-16  
WS65021-20



WS65031-16  
WS65031-20

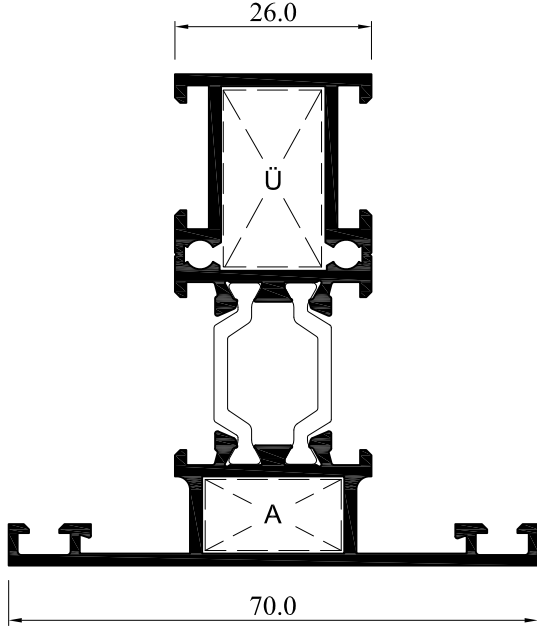
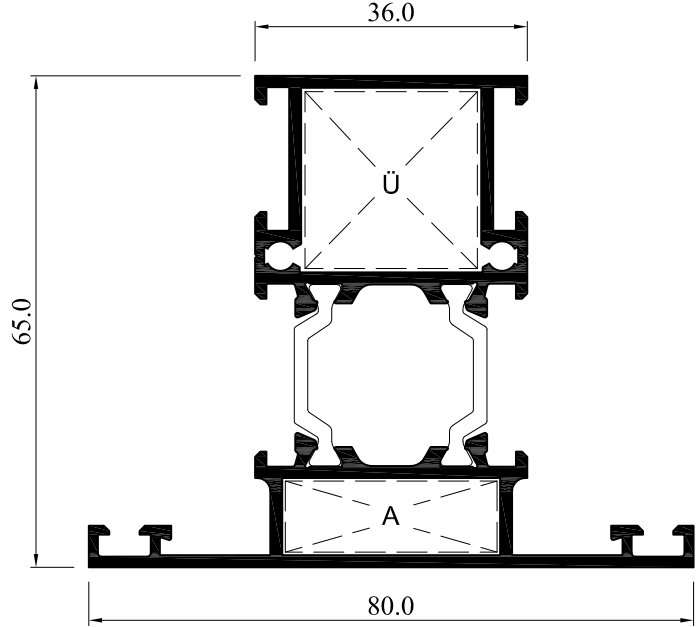
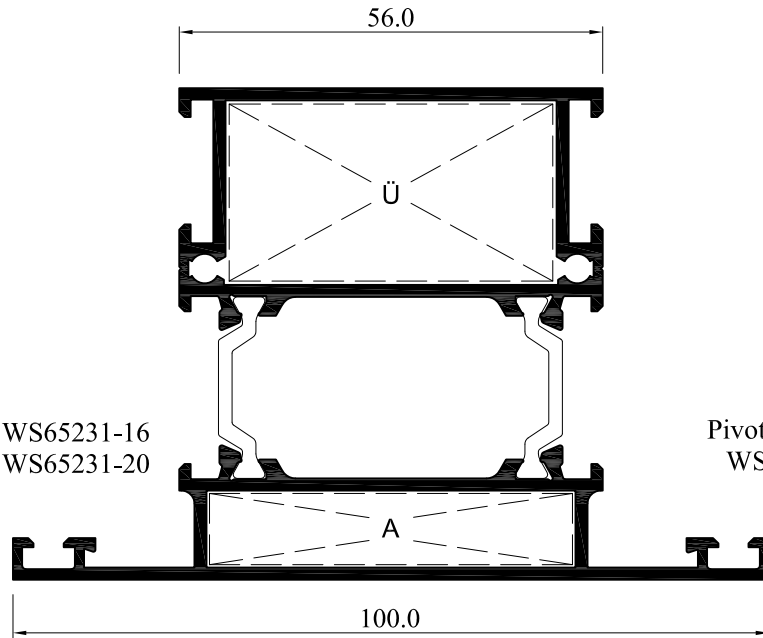
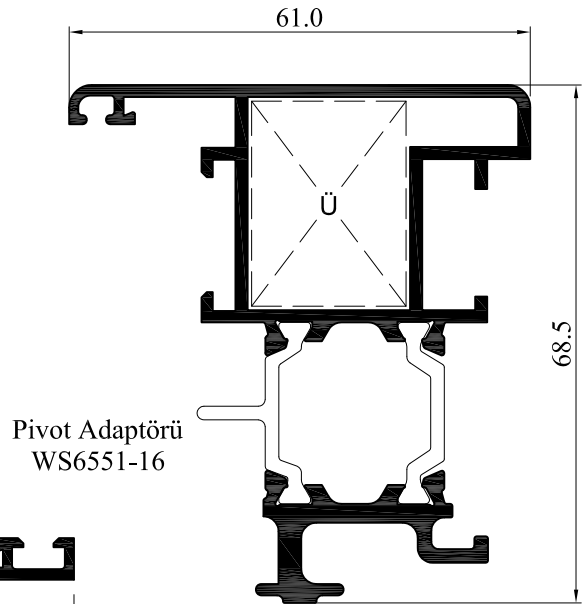
Farklı et kalınlığında mevcut olan profiller için 1.6 mm et kalınlığı resmedilmiştir. WS65XYZ-AB profil kodu olmak üzere; Profilin et kalınlığı A.B mm'dir.

| PROFİL KODU | AĞIRLIK (kg/m) | ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | I <sub>x</sub> cm <sup>4</sup> | I <sub>y</sub> cm <sup>4</sup> | W <sub>x</sub> cm <sup>3</sup> | W <sub>y</sub> cm <sup>3</sup> |
|-------------|----------------|------------------------------------------------|------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| WS65011-16  | 1.316          | T851-185 / 9.7                                 | T851-135 / 23.9                                | 22.17                          | 5.97                           | 7.86                           | 3.92                           |
| WS65011-20  | 1.450          | T851-175 / 8.9                                 | T851-121 / 23.5                                | 25.34                          | 6.34                           | 9.01                           | 4.15                           |
| WS65021-16  | 1.505          | T851-286 / 9.7                                 | T851-236 / 23.9                                | 26.09                          | 11.95                          | 9.23                           | 5.86                           |
| WS65021-20  | 1.680          | T851-273 / 8.9                                 | T851-225 / 23.5                                | 30.15                          | 12.81                          | 10.70                          | 6.28                           |
| WS65031-16  | 1.852          | T851-478 / 9.7                                 | T851-432 / 23.9                                | 33.74                          | 33.36                          | 11.89                          | 10.86                          |
| WS65031-20  | 2.114          | T851-478 / 8.9                                 | T851-424 / 23.5                                | 39.62                          | 36.23                          | 13.99                          | 11.84                          |

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 <sub>x</sub> cm <sup>4</sup> | I <sub>y</sub> cm <sup>4</sup> | W <sub>x</sub> cm <sup>3</sup> | W <sub>y</sub> cm <sup>3</sup> |
|-------------|----------------|------------------------------------------------|------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| WS65015-16  | 1.442          | T851-185 / 9.7                                 | T851-135 / 23.9                                | 27.44                          | 9.60                           | 8.85                           | 2.76                           |
| WS65017-16  | 1.574          | T851-185 / 9.7                                 | T851-135 / 23.9                                | 33.65                          | 17.77                          | 9.94                           | 3.79                           |

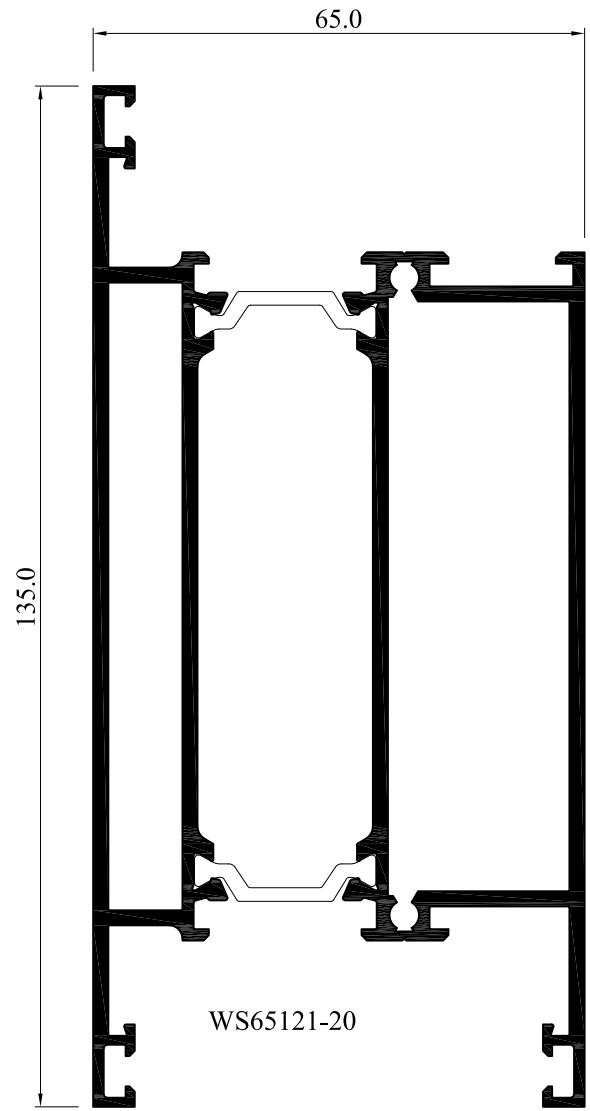
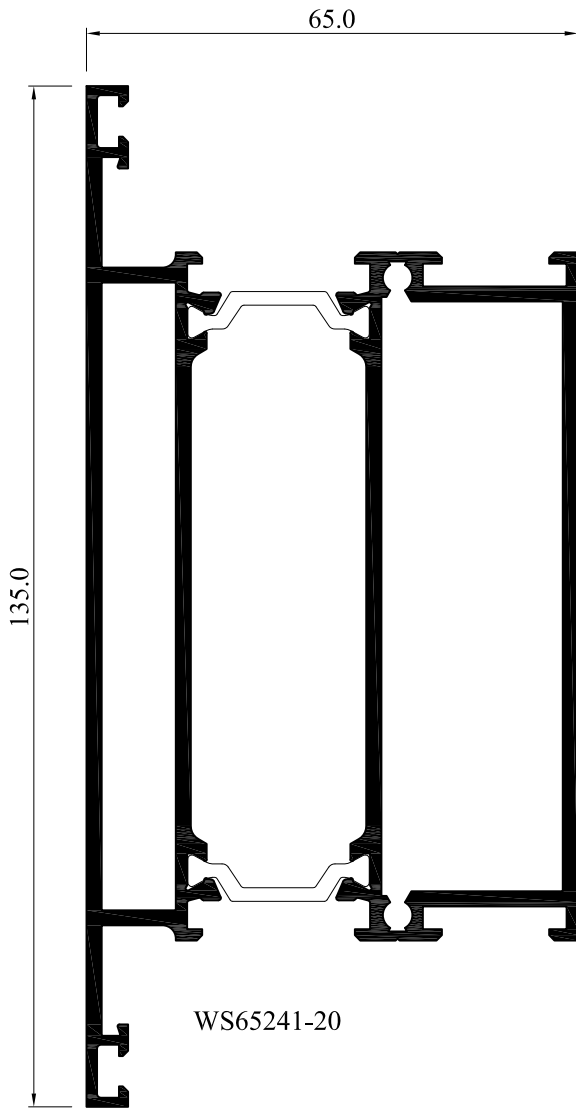
## ORTA KAYITLAR / TRANSOM-MULLION PROFILES


WS65211-16  
WS65211-20

WS65221-16  
WS65221-20

WS65231-16  
WS65231-20

Pivot Adaptörü  
WS6551-16

| PROFİL KODU | AĞIRLIK (kg/m) | ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | I <sub>x</sub> cm <sup>4</sup> | I <sub>y</sub> cm <sup>4</sup> | W <sub>x</sub> cm <sup>3</sup> | W <sub>y</sub> cm <sup>3</sup> |
|-------------|----------------|------------------------------------------------|------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| WS65211-16  | 1.449          | T851-185 / 9.7                                 | T851-135 / 23.9                                | 25.32                          | 9.64                           | 9.74                           | 2.76                           |
| WS65211-20  | 1.596          | T851-175 / 8.9                                 | T851-121 / 23.5                                | 28.80                          | 10.18                          | 11.12                          | 2.91                           |
| WS65221-16  | 1.638          | T851-286 / 9.7                                 | T851-236 / 23.9                                | 29.28                          | 17.07                          | 11.15                          | 4.30                           |
| WS65221-20  | 1.826          | T851-273 / 8.9                                 | T851-225 / 23.5                                | 33.53                          | 18.20                          | 12.84                          | 4.56                           |
| WS65231-16  | 1.985          | T851-478 / 9.7                                 | T851-432 / 23.9                                | 36.99                          | 42.09                          | 13.84                          | 8.43                           |
| WS65231-20  | 2.260          | T851-478 / 8.9                                 | T851-424 / 23.5                                | 43.22                          | 45.55                          | 16.19                          | 9.12                           |
| WS6551-16   | 1.545          | -                                              | T851-210 / 27.7                                | -                              | -                              | x.xx                           | x.xx                           |



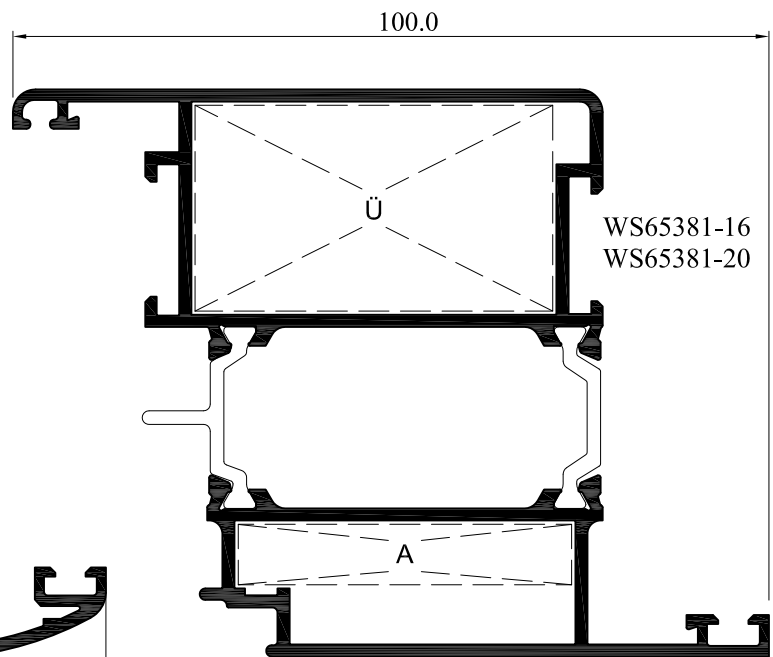
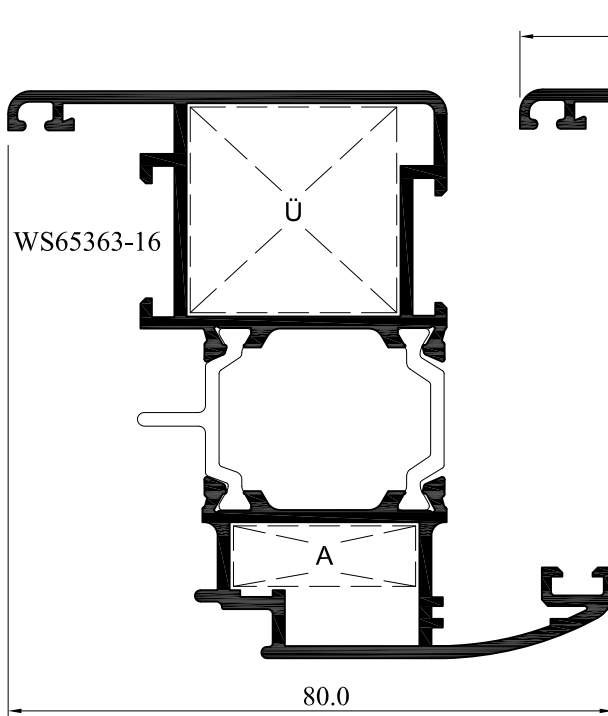
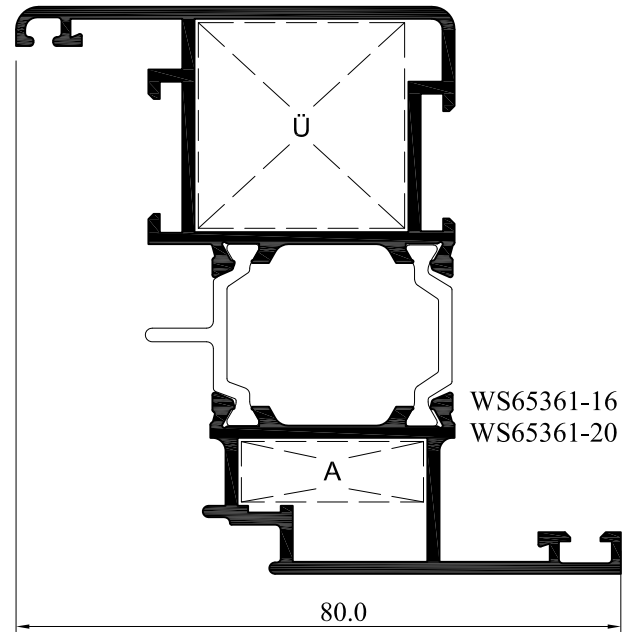
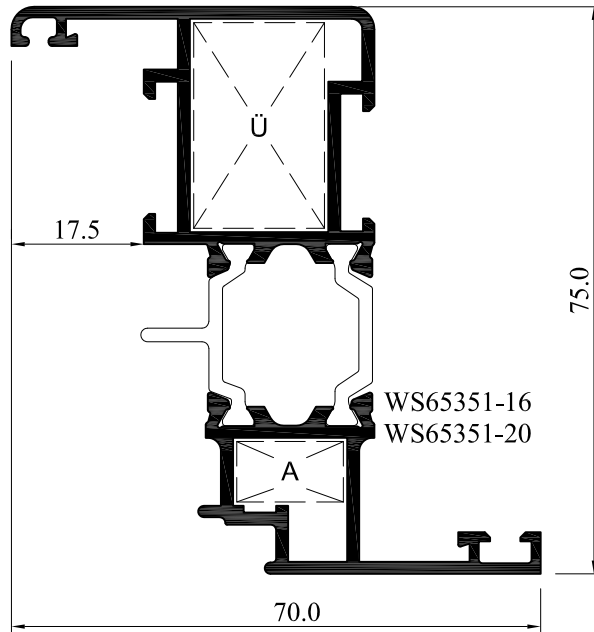
ORTA KAYITLAR ve ETEK TEŞKİL PROFİLLERİ  
*TRANSOM-MULLION PROFILES and KICKPLATE PROFILES*



Etek detayı için bkz. Sayfa 145

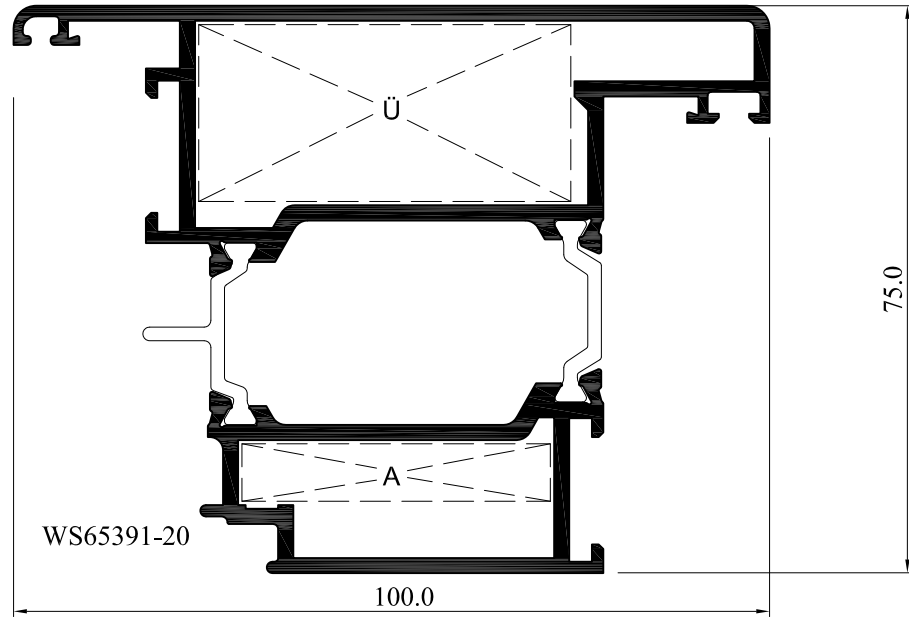
| PROFİL<br>KODU | AĞIRLIK<br>(kg/m) | I <sub>x</sub><br>cm <sup>4</sup> | I <sub>y</sub><br>cm <sup>4</sup> | W <sub>x</sub><br>cm <sup>3</sup> | W <sub>y</sub><br>cm <sup>3</sup> |
|----------------|-------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| WS65241-20     | 2.997             | 59.55                             | 136.97                            | 21.76                             | 20.29                             |
| WS65121-20     | 3.139             | -                                 | -                                 | -                                 | -                                 |

## KANATLAR / SASH PROFILES

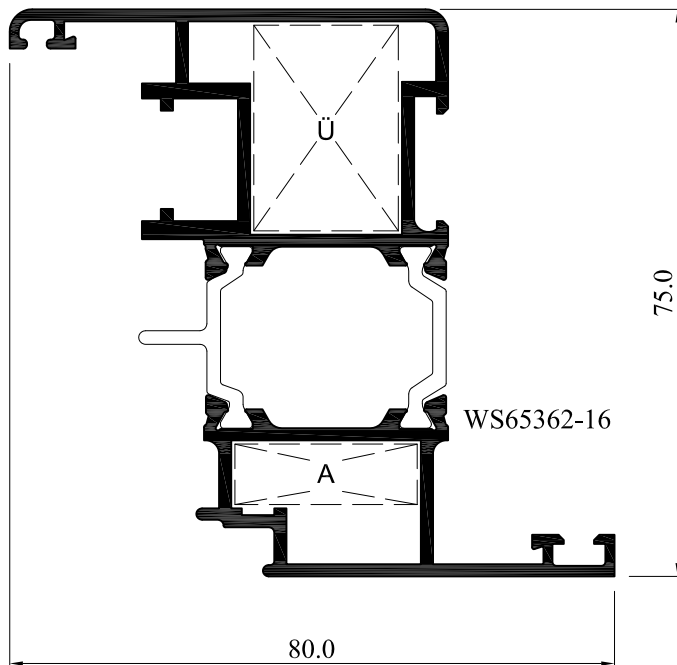


| PROFİL KODU | AĞIRLIK (kg/m) | ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | I <sub>x</sub> | I <sub>y</sub> |
|-------------|----------------|------------------------------------------------|------------------------------------------------|----------------|----------------|
| WS65351-16  | 1.529          | T851-146 / 8.5                                 | T851-175 / 27.7                                | -              | -              |
| WS65351-20  | 1.729          | T851-140 / 8.1                                 | T851-165 / 26.9                                | -              | -              |
| WS65361-16  | 1.718          | T851-246 / 8.5                                 | T851-280 / 27.7                                | -              | -              |
| WS65361-20  | 1.953          | T851-240 / 8.1                                 | T851-273 / 26.9                                | -              | -              |
| WS65363-16  | 1.760          | T851-246 / 8.5                                 | T851-280 / 27.7                                | -              | -              |
| WS65381-16  | 2.049          | T851-445 / 8.5                                 | T851-478 / 27.7                                | -              | -              |
| WS65381-20  | 2.379          | T851-437 / 8.1                                 | T851-468 / 26.9                                | -              | -              |

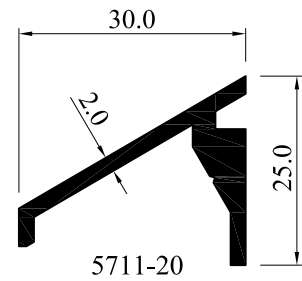
DIŞA AÇILIR KAPI KANADI / *DOOR SASH PROFILE OPENING OUTSIDE*



PVC AKSESUAR İÇİN KANAT  
SASH PROFILE FOR PVC ACCESSORIES

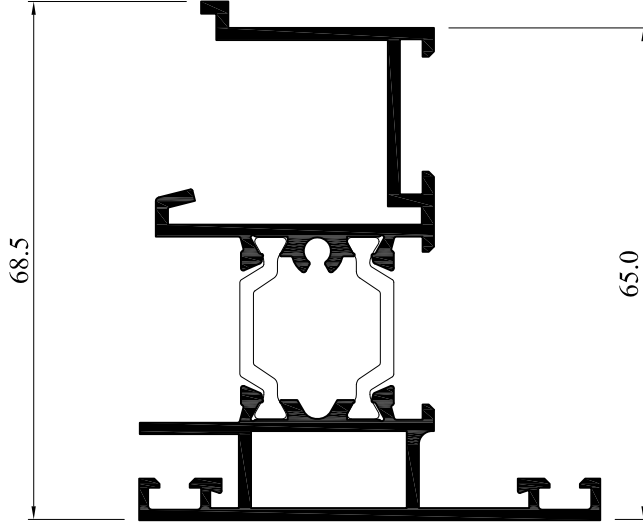


DAMLALIK PROFİLİ  
*WINDOWSILL PROFILE*



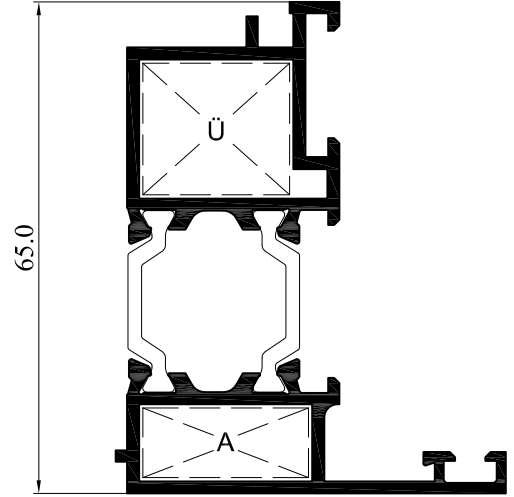
| PROFİL KODU | AĞIRLIK (kg/m) | ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | I <sub>x</sub> cm <sup>4</sup> | I <sub>y</sub> cm <sup>4</sup> |
|-------------|----------------|------------------------------------------------|------------------------------------------------|--------------------------------|--------------------------------|
| WS65362-16  | 1.804          | T851-246 / 8.5                                 | T851-196 / 27.7                                | -                              | -                              |
| WS65391-20  | 2.542          | T851-412 / 8.1                                 | T85-498 / 23.9                                 | -                              | -                              |
| 5711-20     | 0.404          | -                                              | -                                              | -                              | -                              |

ÇİFT KANAT ADAPTÖRÜ  
ADJOINING SASH ADAPTER



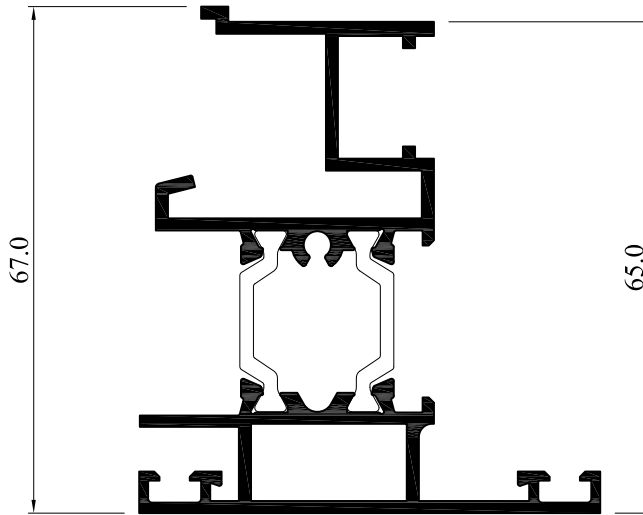
WS6552-16

DIŞA AÇILIR KAPI ADAPTÖRÜ  
OUTSIDE OPENING DOOR ADAPTER



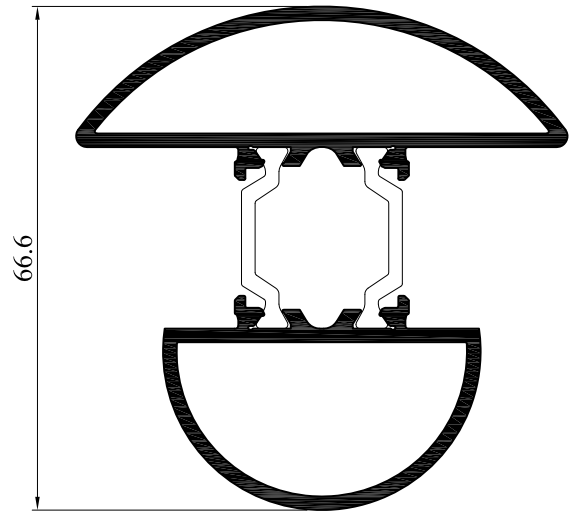
WS6553-16

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



WS65521-16

90°-135° AYARLANABİLİR KÖŞE DÖNÜŞ PROFİLİ  
90°-135° CORNERS PROFILES

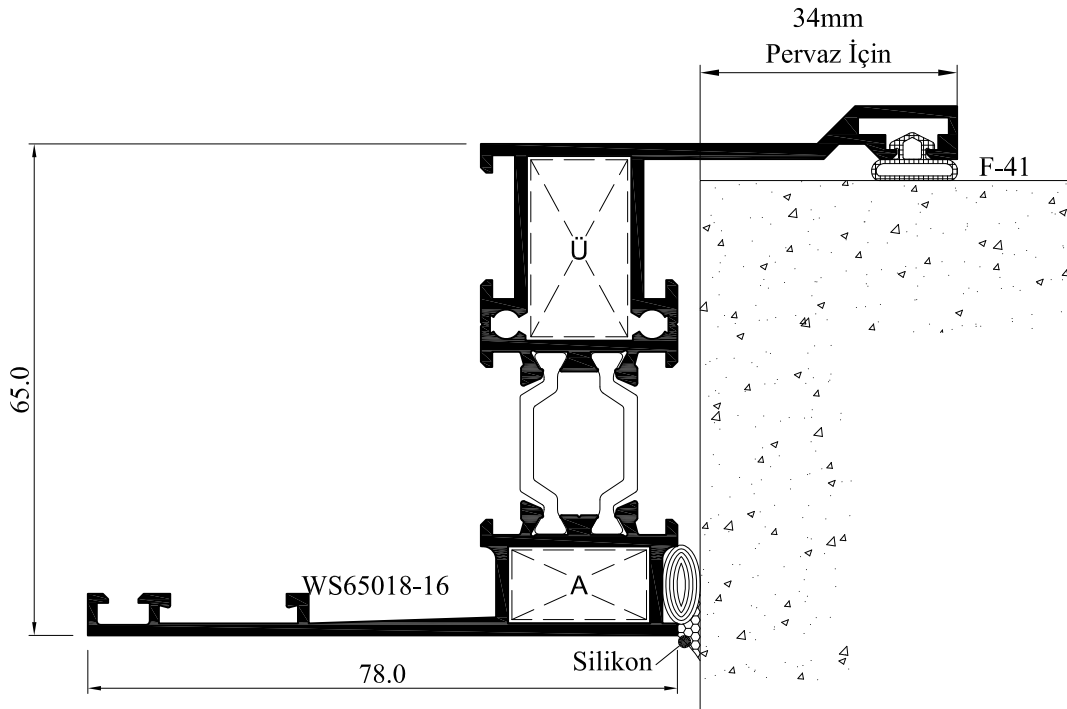
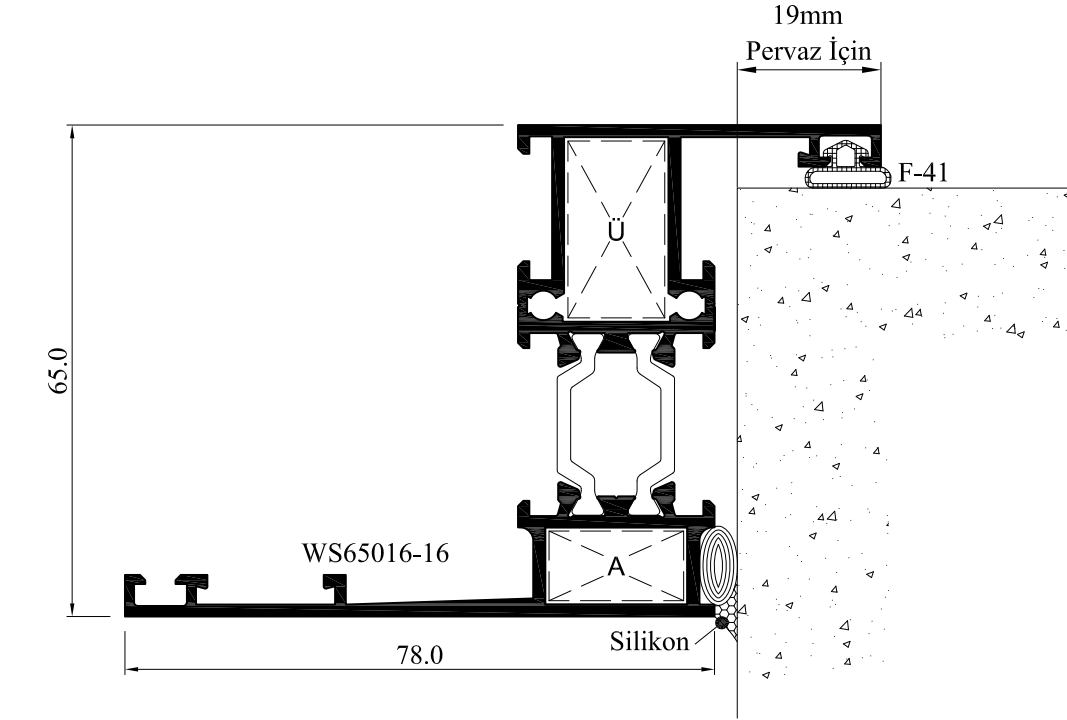


WS65265-18

| 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 <sup>3</sup> | Wy cm <sup>3</sup> |
|-------------|----------------|------------------------------------------------|------------------------------------------------|--------|--------|--------------------|--------------------|
| WS6552-16   | 1.458          | -                                              | -                                              | -      | -      | -                  | -                  |
| WS6553-16   | 1.304          | T851-225 / 9.7                                 | T851-196 / 17.9                                | 20.72  | 7.85   | 7.68               | 4.50               |
| WS65265-18  | 1.552          | -                                              | -                                              | -      | -      | -                  | -                  |
| WS65521-16  | 1.494          | -                                              | -                                              | -      | -      | -                  | -                  |

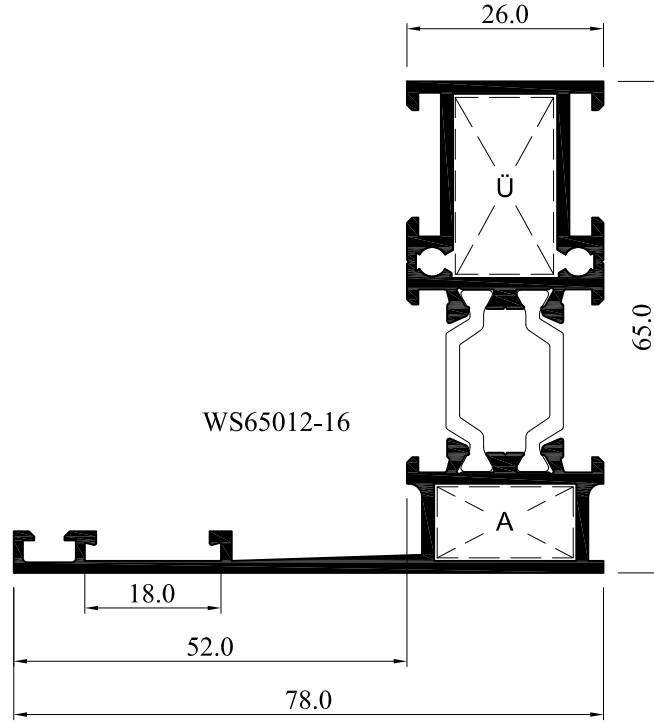


GİZLİ KANAT PERVAZLI KASALARI / *HIDDEN FRAME PROFILE*

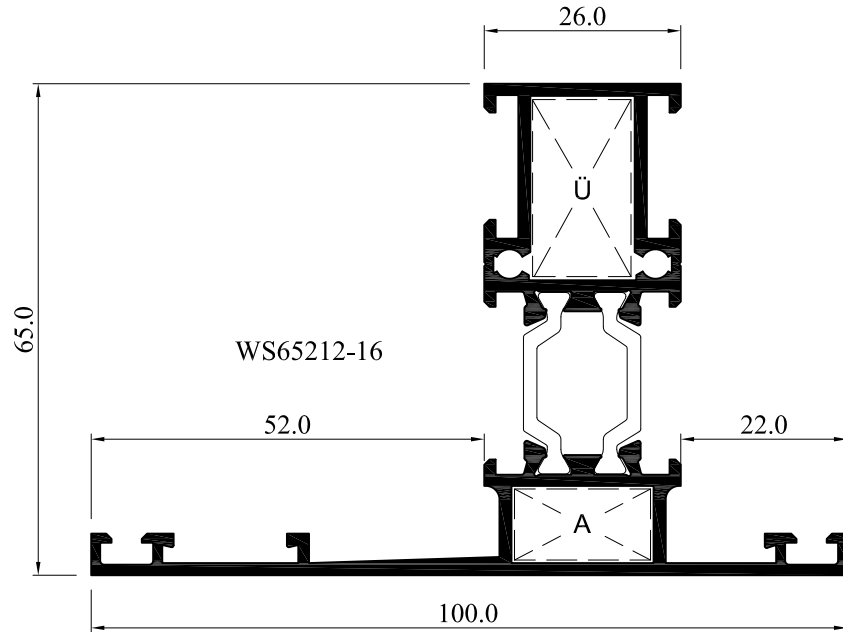


| PROFİL KODU | AĞIRLIK (kg/m) | ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | I <sub>x</sub> cm <sup>4</sup> | I <sub>y</sub> cm <sup>4</sup> | W <sub>x</sub> cm <sup>3</sup> | W <sub>y</sub> cm <sup>3</sup> |
|-------------|----------------|------------------------------------------------|------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| WS65016-16  | 1.620          | T851-185 / 9.7                                 | T851-135 / 23.9                                | 32.65                          | 25.38                          | 11.67                          | 6.33                           |
| WS65018-16  | 1.752          | T851-185 / 9.7                                 | T851-135 / 23.9                                | 39.95                          | 35.64                          | 12.99                          | 6.88                           |

GİZLİ KANAT KASASI / *FRAME PROFILE FOR HIDDEN SASH*

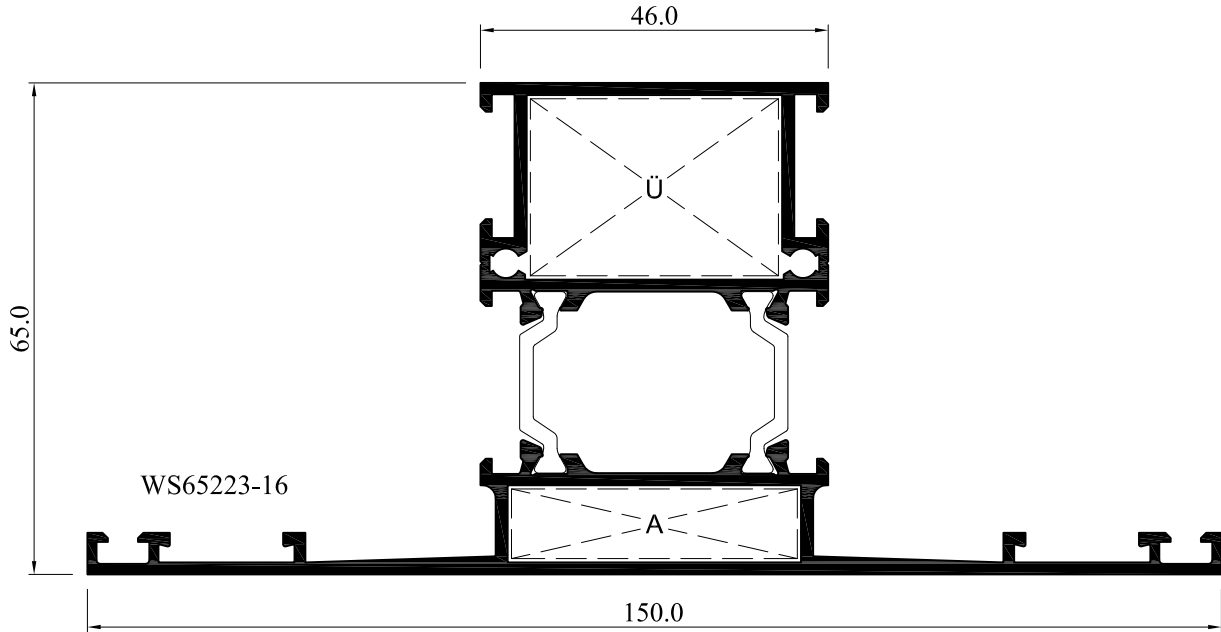
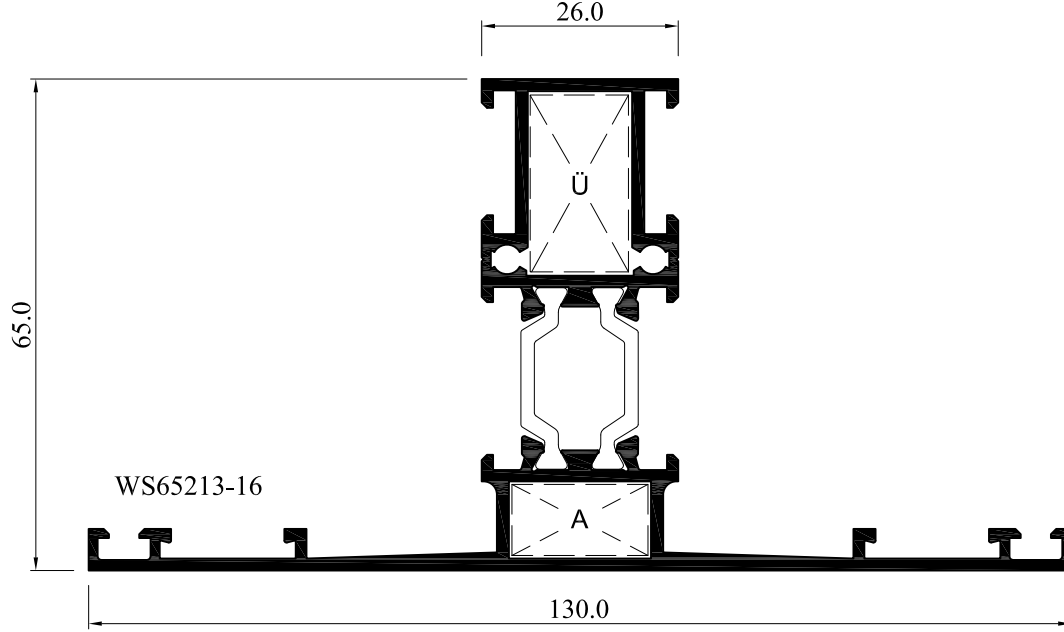


GİZLİ KANAT ORTA KAYIT / *TRANSOM-MULLION PROFILE FOR HIDDEN SASH*



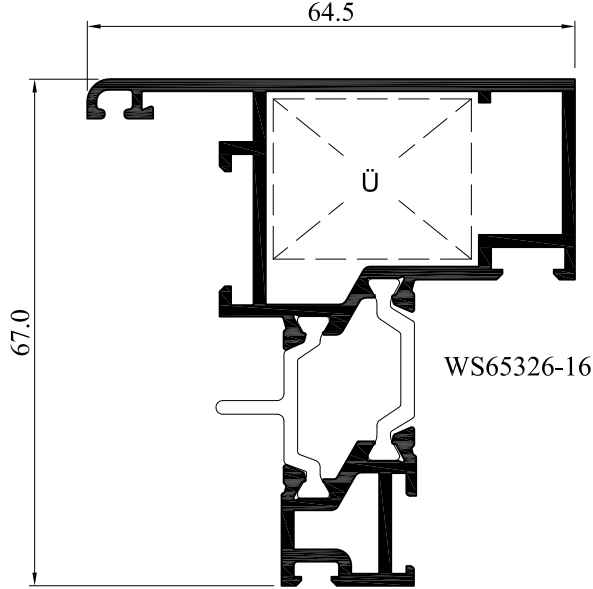
| PROFİL KODU | AĞIRLIK (kg/m) | ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | I <sub>x</sub> cm <sup>4</sup> | I <sub>y</sub> cm <sup>4</sup> | W <sub>x</sub> cm <sup>3</sup> | W <sub>y</sub> cm <sup>3</sup> |
|-------------|----------------|------------------------------------------------|------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| WS65012-16  | 1.494          | T851-185 / 9.7                                 | T851-135 / 23.9                                | 26.43                          | 20.36                          | 10.46                          | 9.91                           |
| WS65212-16  | 1.627          | T851-185 / 9.7                                 | T851-135 / 23.9                                | 28.94                          | 25.50                          | 12.32                          | 6.37                           |

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

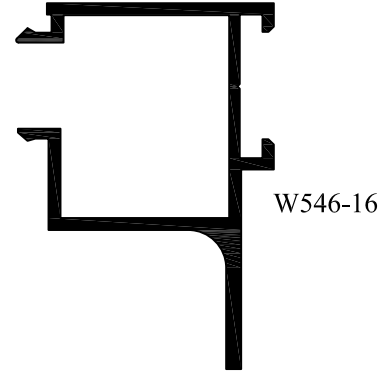


| PROFİL KODU | AĞIRLIK (kg/m) | ALT PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | ÜST PROFİL İÇİN PRES TAKOZU/ KESİM ÖLÇÜSÜ (mm) | I <sub>x</sub> cm <sup>4</sup> | I <sub>y</sub> cm <sup>4</sup> | W <sub>x</sub> cm <sup>3</sup> | W <sub>y</sub> cm <sup>3</sup> |
|-------------|----------------|------------------------------------------------|------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| WS65213-16  | 1.807          | T851-185 / 9.7                                 | T851-135 / 23.9                                | 31.89                          | 44.70                          | 14.87                          | 6.88                           |
| WS65223-16  | 2.168          | T851-382 / 9.7                                 | T851-334 / 23.9                                | 40.23                          | 77.38                          | 17.79                          | 10.32                          |

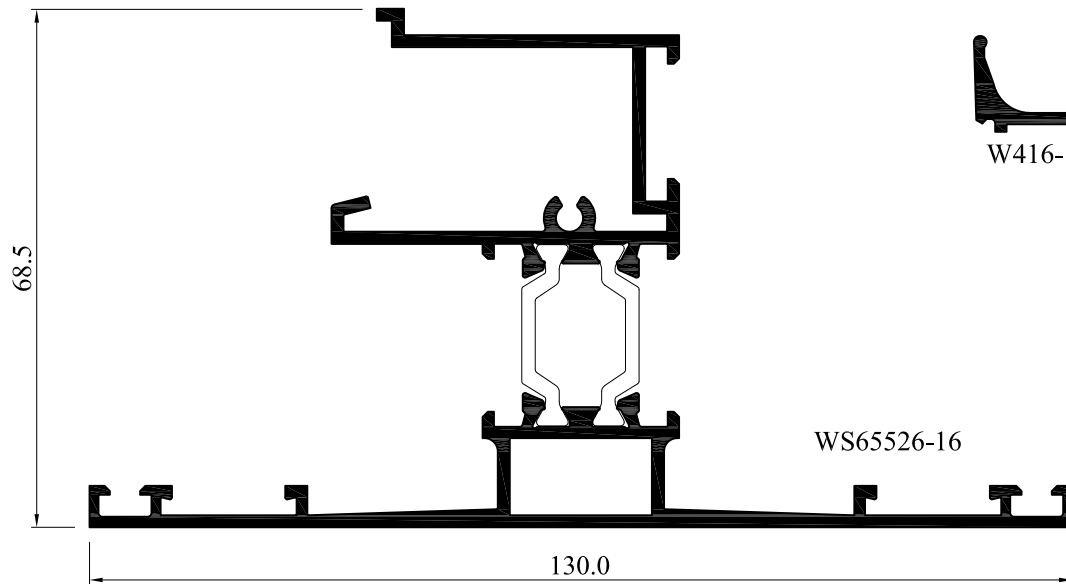
GİZLİ KANAT PROFİLİ  
HIDDEN SASH PROFILE



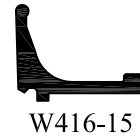
GİZLİ KANATTA SABİT CAM ADAPTÖRÜ  
FIX GLASS ADAPTOR FOR HIDDEN SASH



GİZLİ KANAT ÇİFT KANAT ADAPTÖRÜ  
ADJOINING SASH ADAPTER FOR HIDDEN SASH

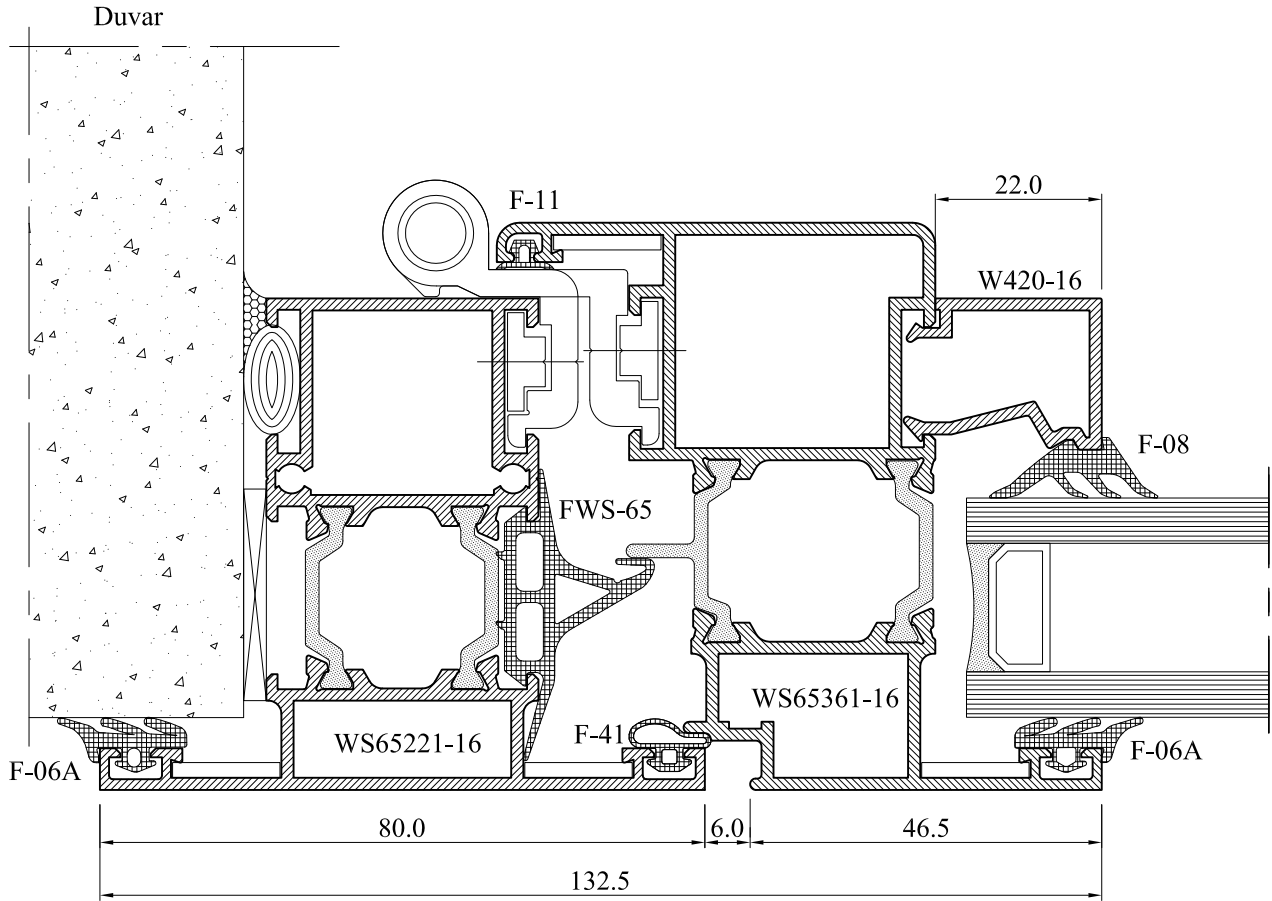
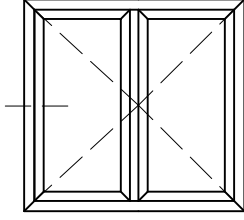


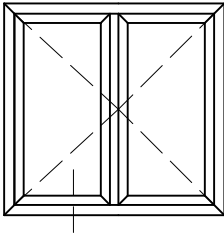
GİZLİ KANAT İÇİN CAM ÇITASI  
GLASS HOLDER FOR HIDDEN SASH



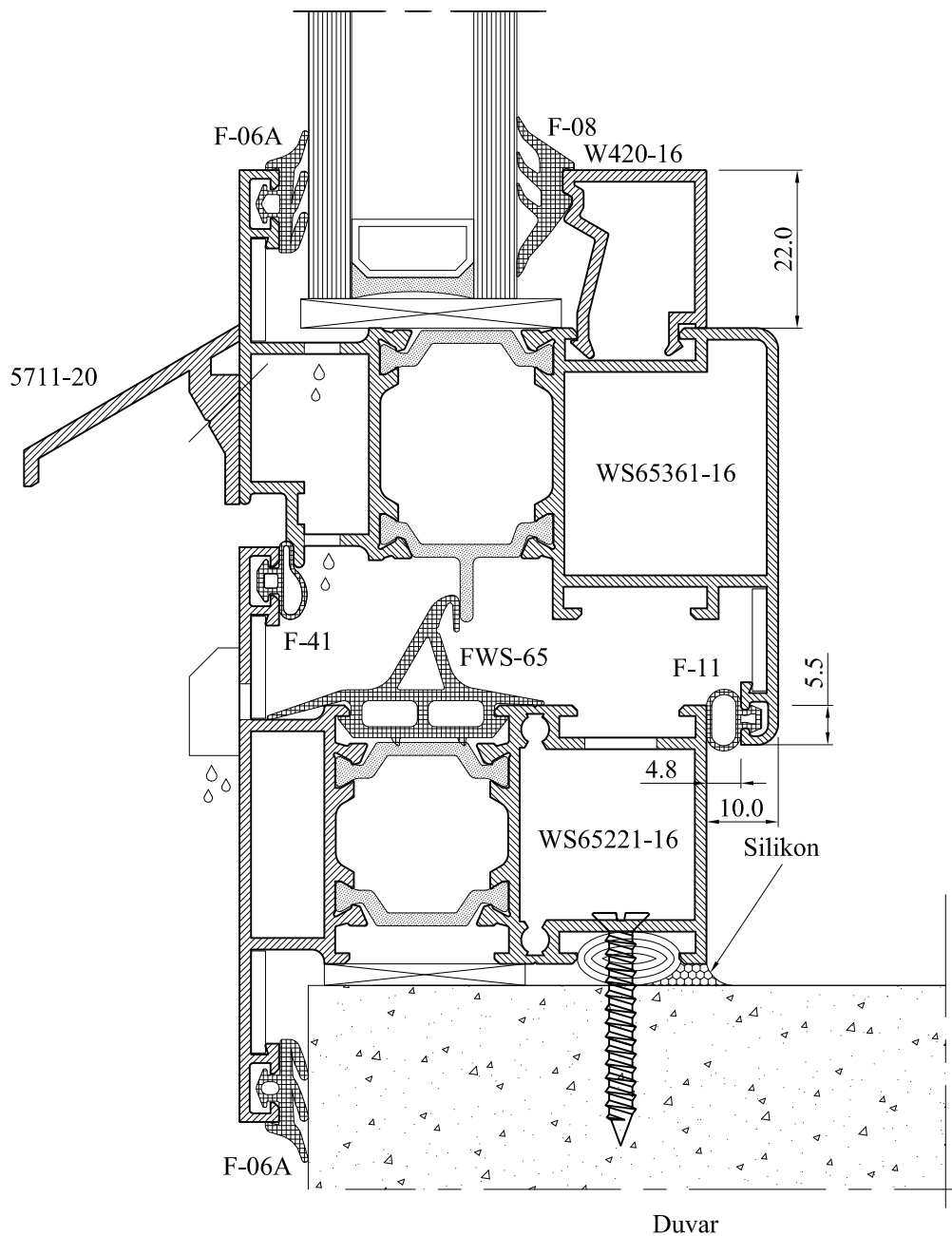
| PROFİL<br>KODU | AĞIRLIK<br>(kg/m) | ALT PROFİL İÇİN<br>PRES TAKOZU/<br>KESİM ÖLÇÜSÜ (mm) | ÜST PROFİL İÇİN<br>PRES TAKOZU/<br>KESİM ÖLÇÜSÜ (mm) |
|----------------|-------------------|------------------------------------------------------|------------------------------------------------------|
| WS65326-16     | 1.446             | -                                                    | T851-280 / 22.7                                      |
| W416-15        | 0.142             | -                                                    | -                                                    |
| W546-16        | 0.592             | -                                                    | -                                                    |
| WS65526-16     | 1.897             | -                                                    | -                                                    |

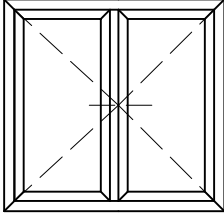
İçe Açılır Çift Kanat Pencere  
Yan Duvar Bitiş Detayı



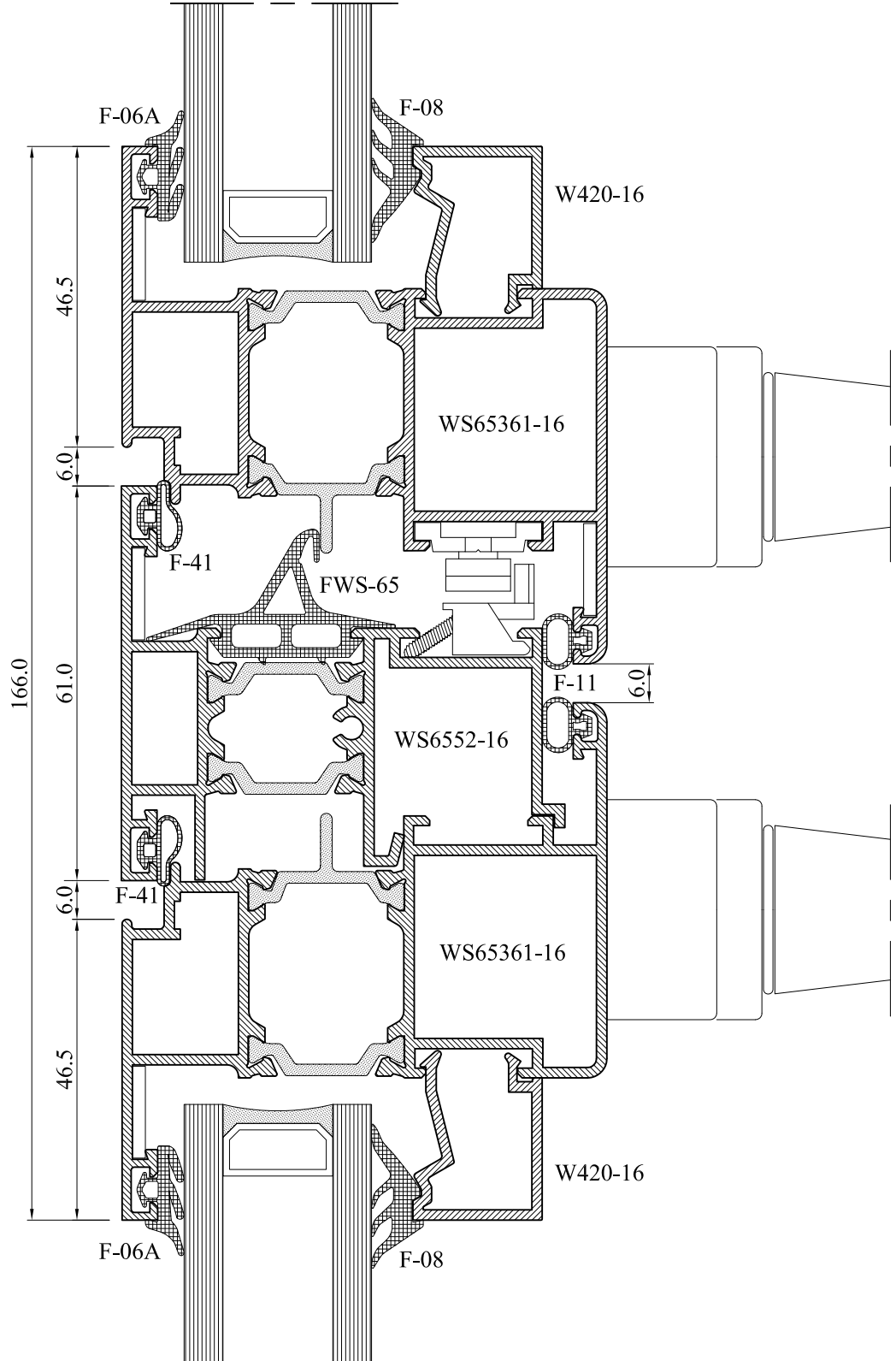


## İçe Açılır Çift Kanat Pencere Alt Duvar Bitiş Detayı



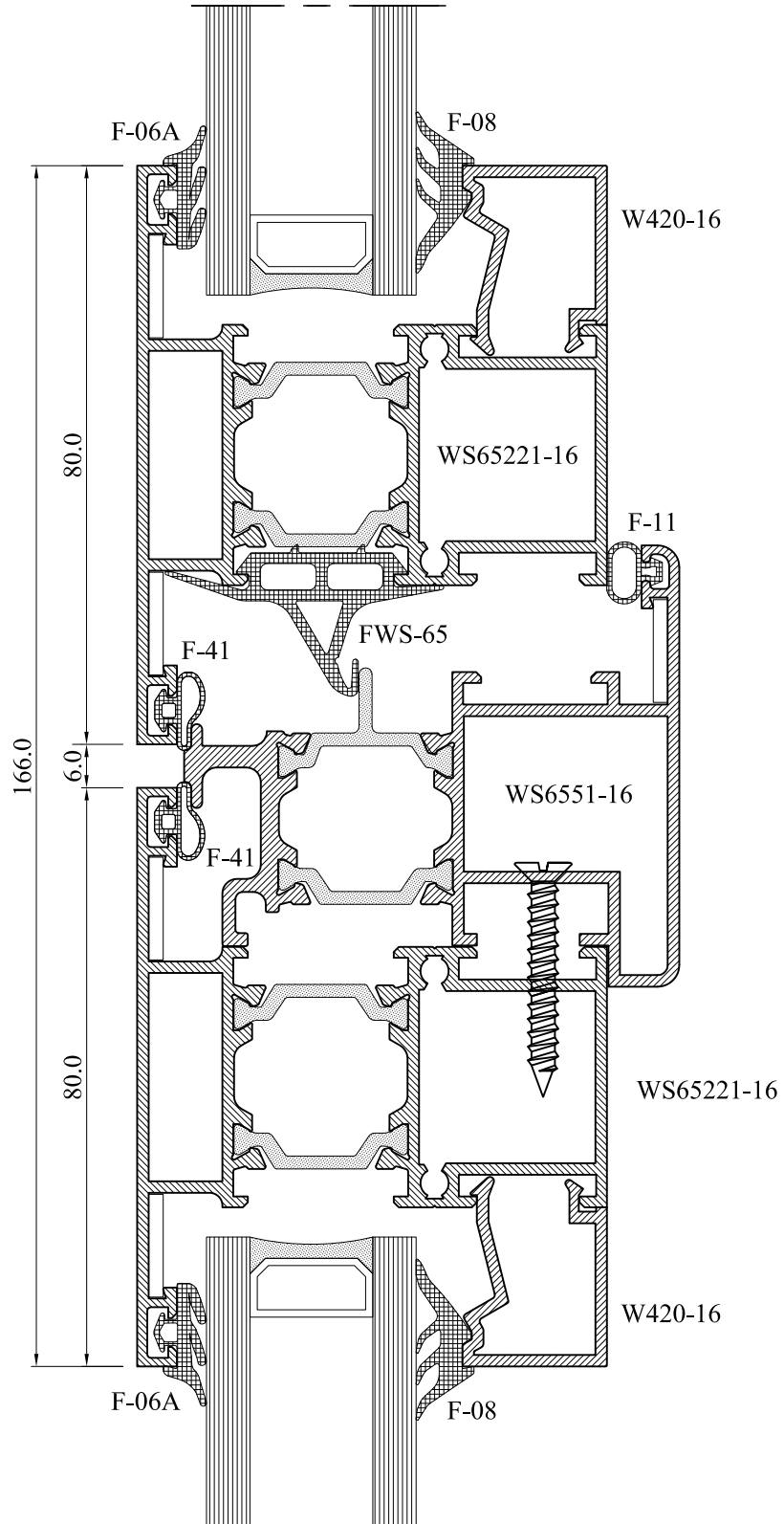
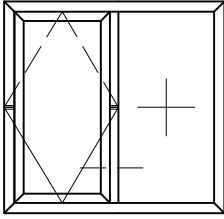


İçe Açılır Çift Kanat Pencere  
Orta Birleşim Detayı

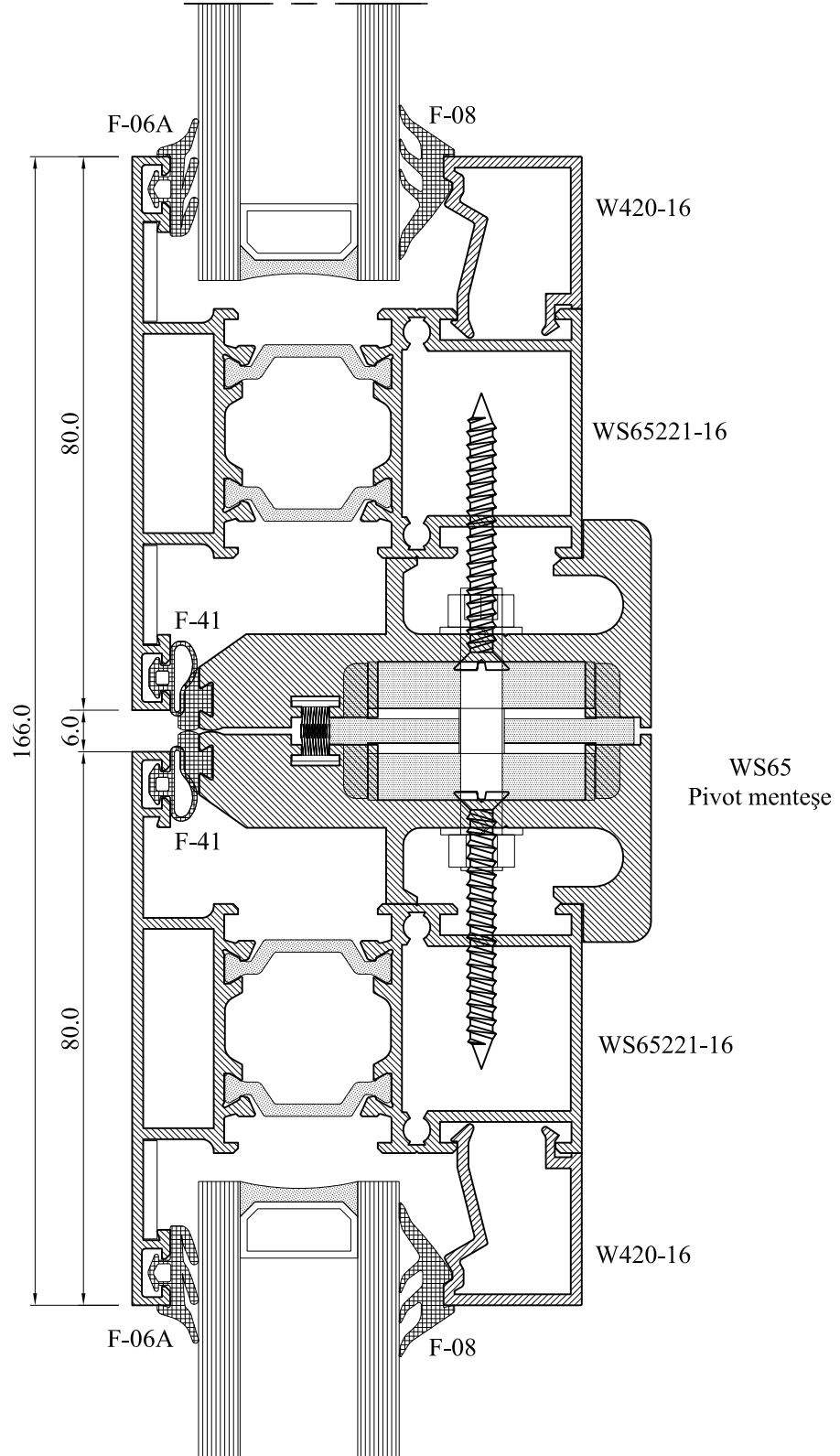
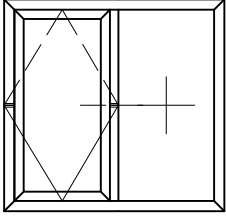




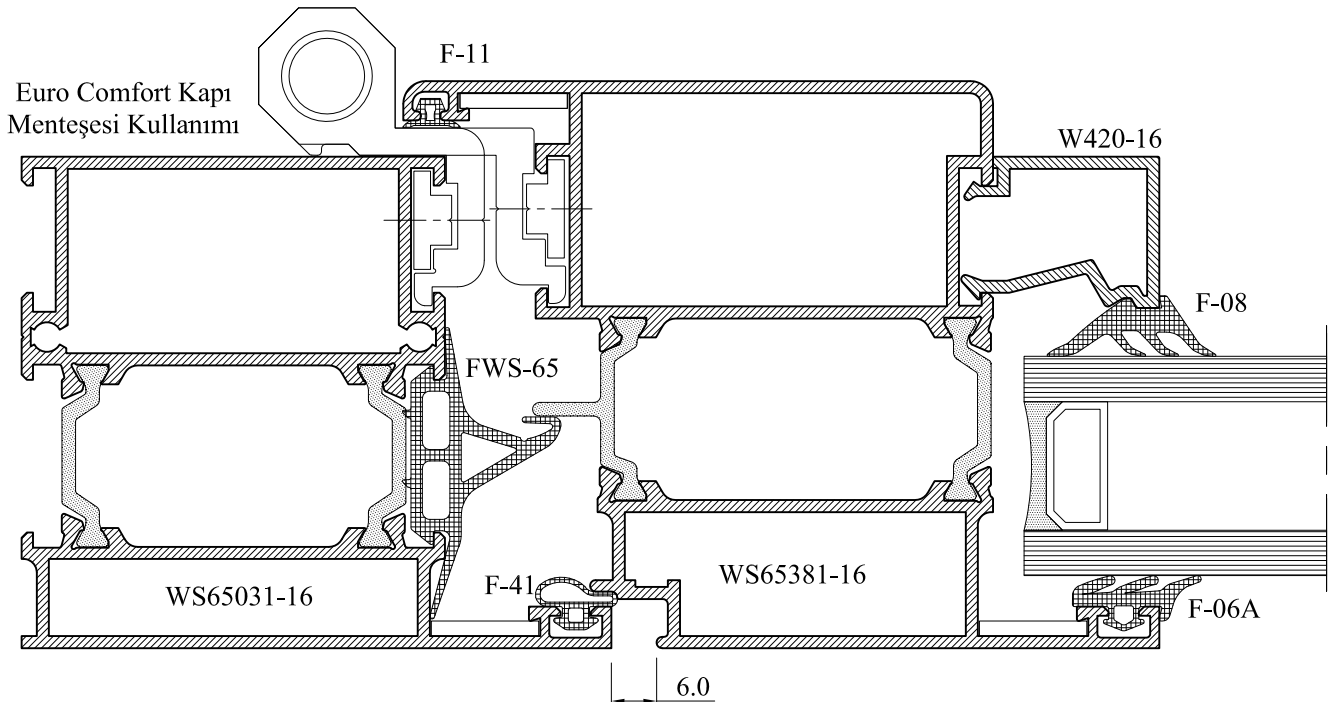
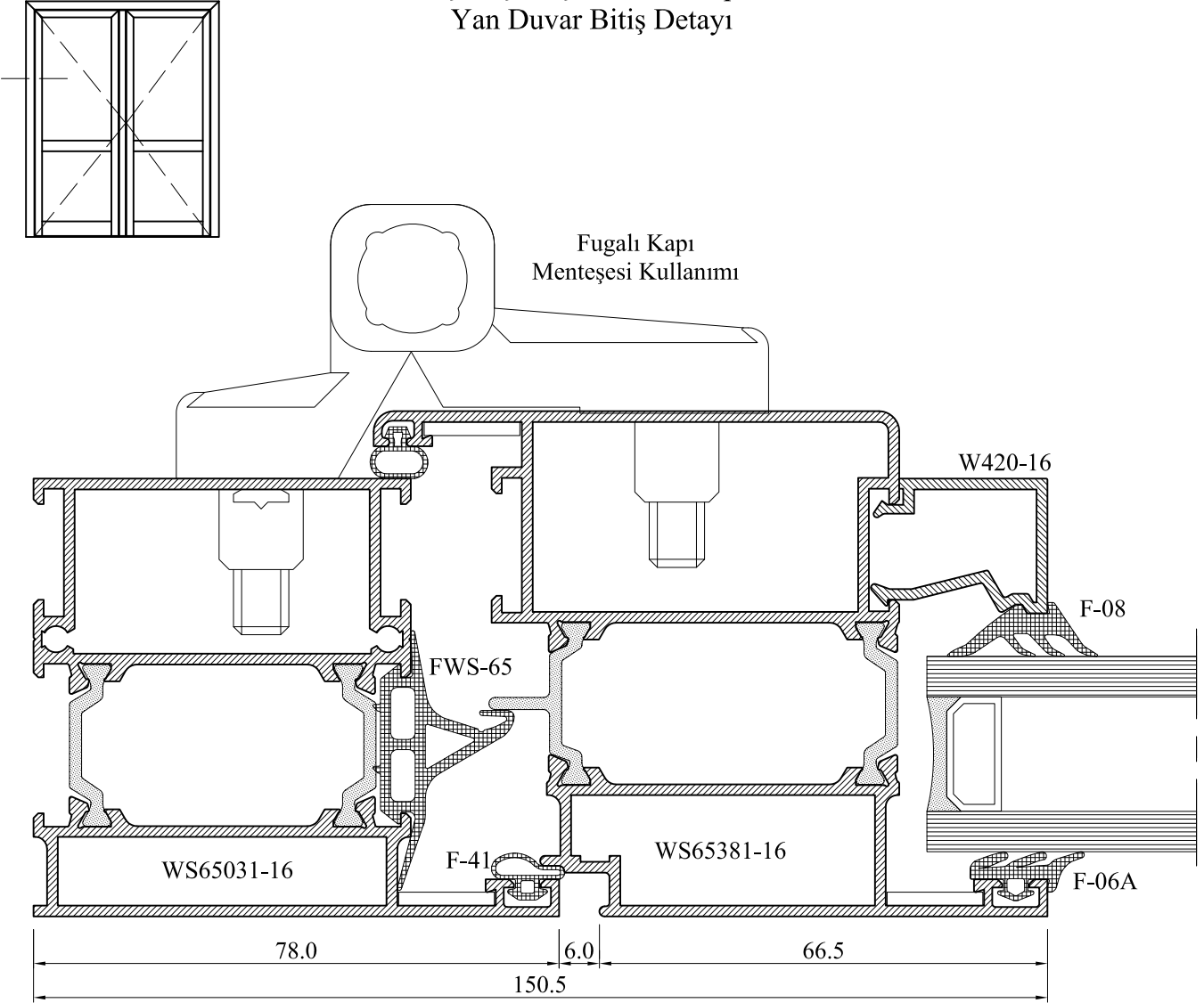
Pivot Açılım Adaptör Detayı



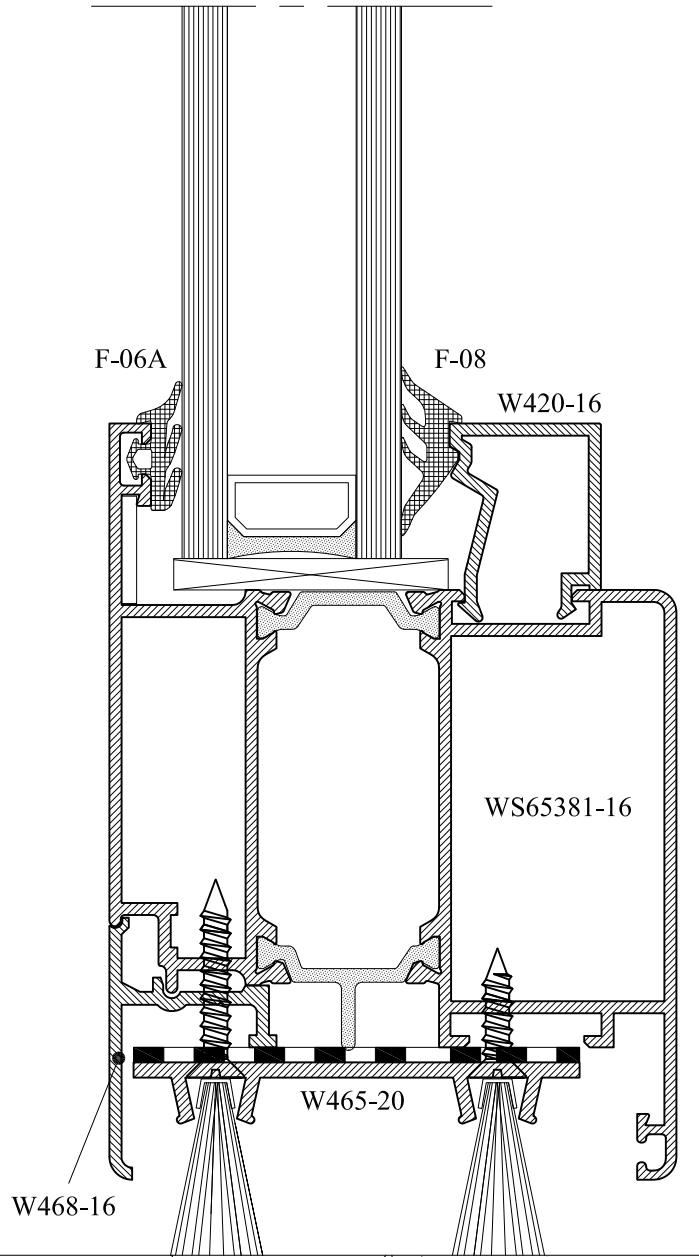
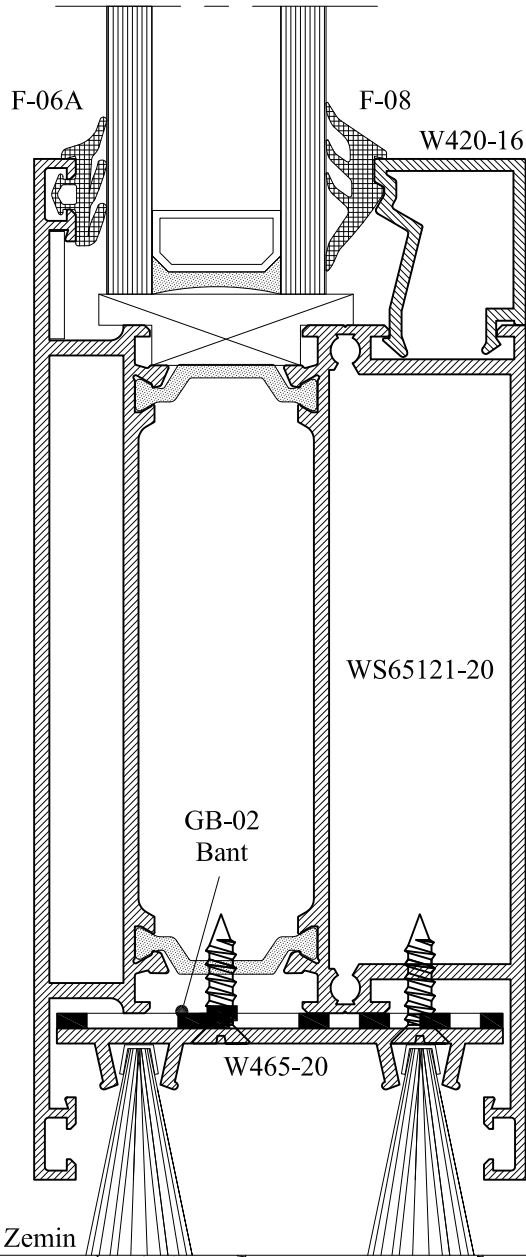
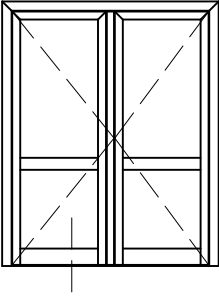
Pivot Açılım Menteşe Detayı

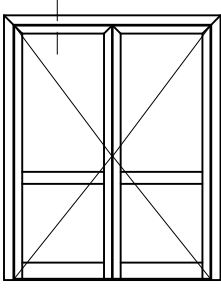


İçe Açılır Çift Kanat Kapı  
Yan Duvar Bitiş Detayı

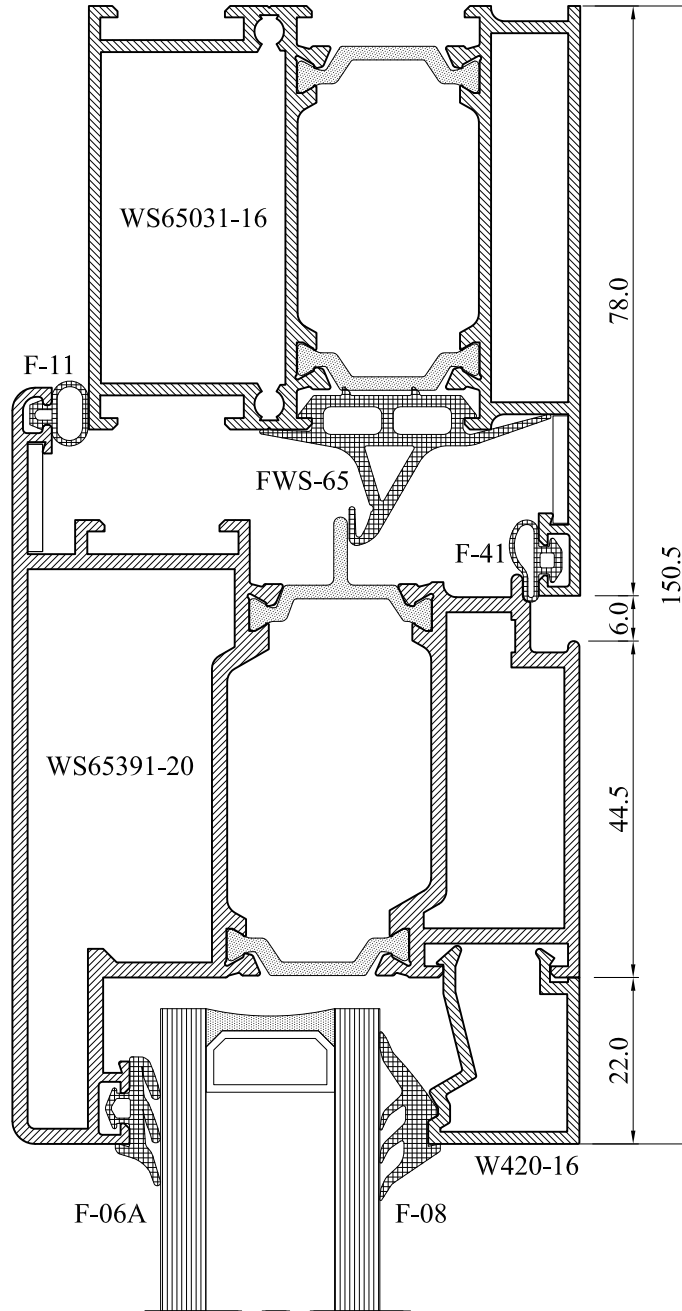


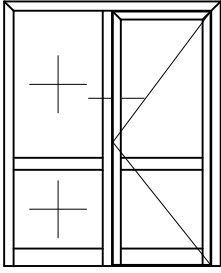
İçe Açılır Çift Kanat Kapı  
Etek Detayı Alternatifleri





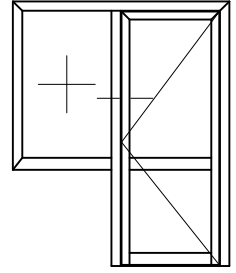
Dışa Açılır Çift Kanat Kapı  
Üst Duvar Bitiş Detayı



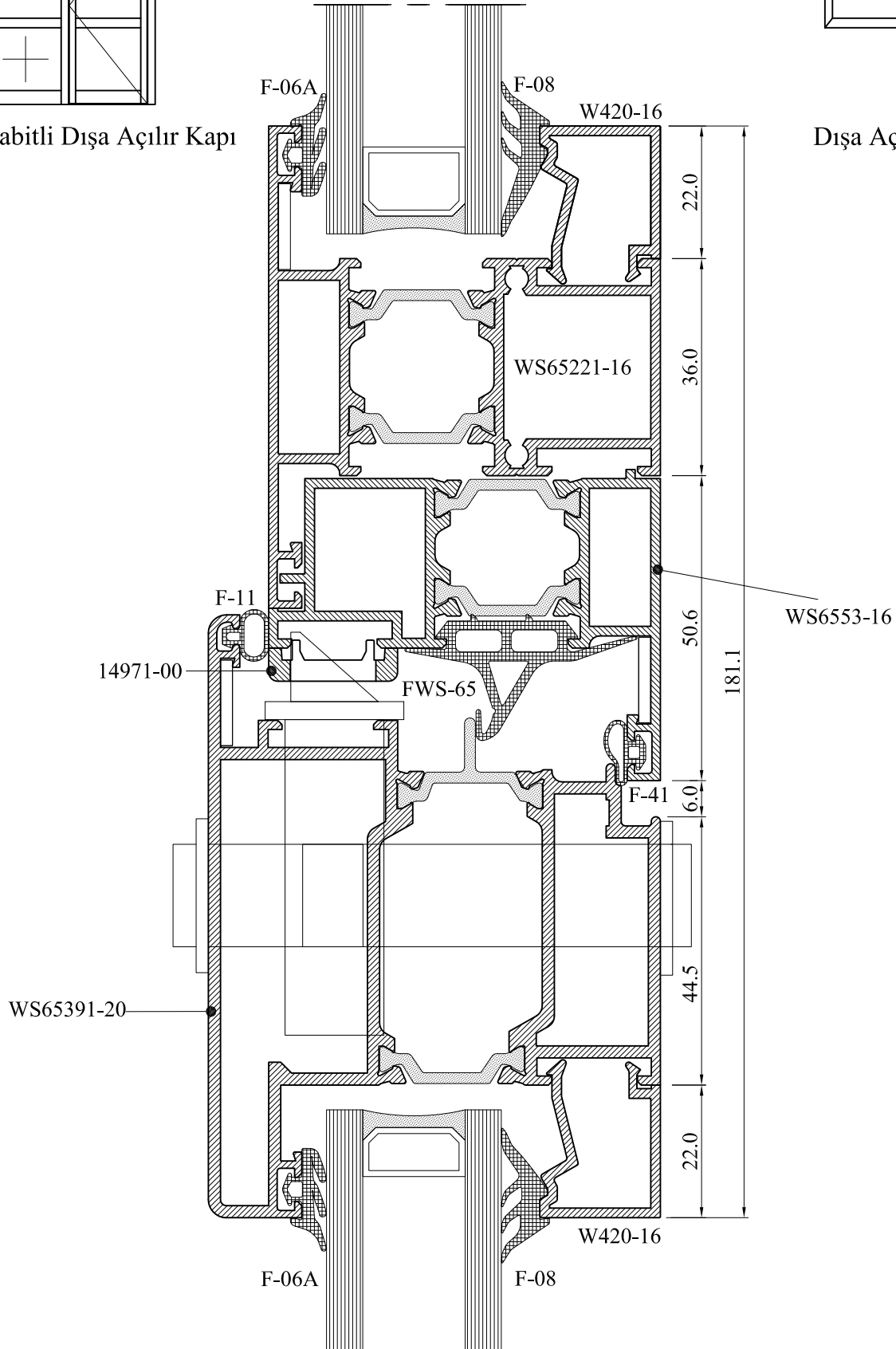


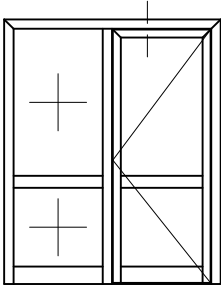
Sabitli Dışa Açılır Kapı

Sabit ve Açılır Kanat Birleşim Detayı



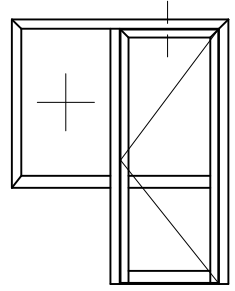
Dışa Açılır Topal Kapı



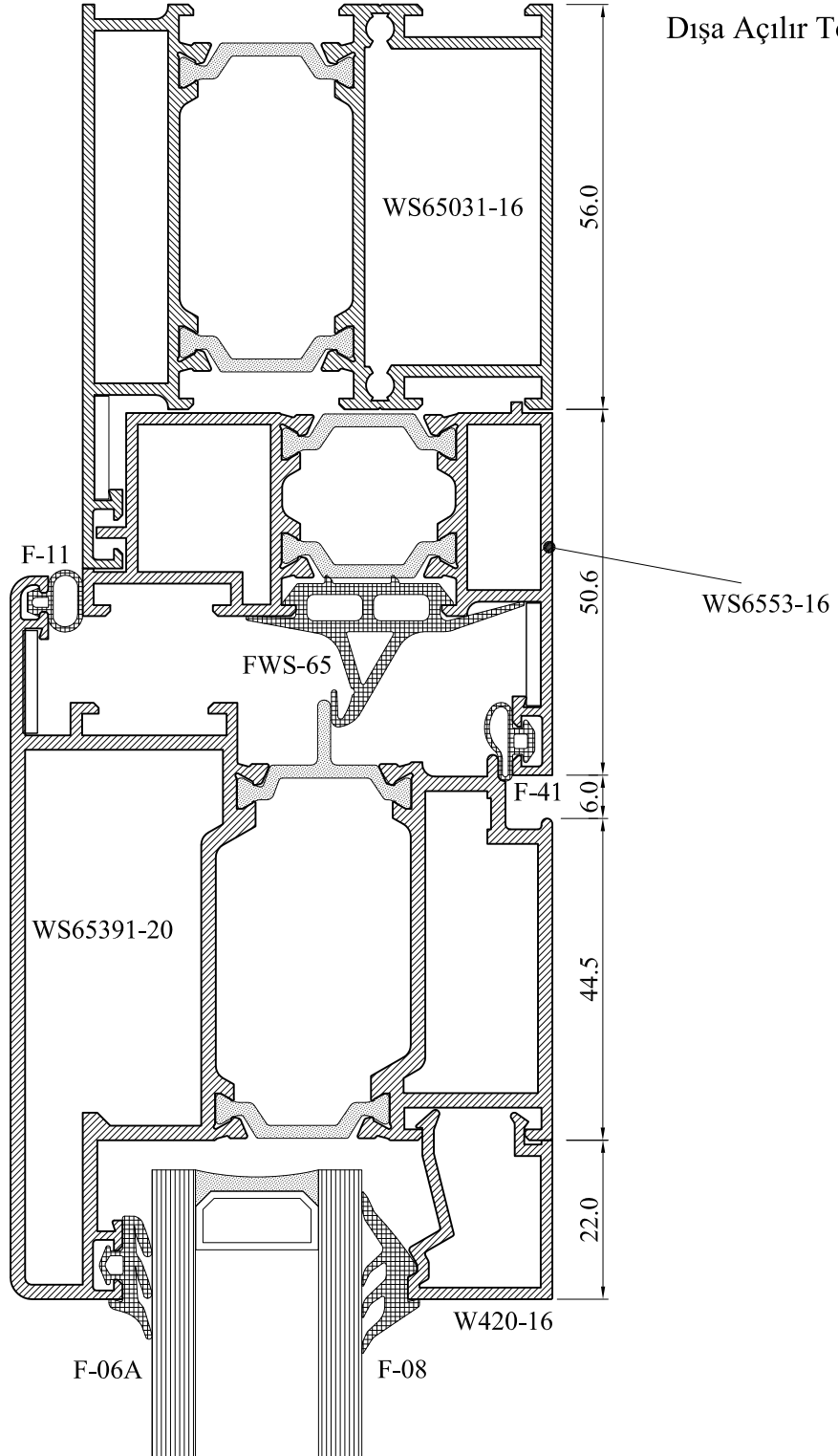


Sabitli Dışa Açılır Kapı

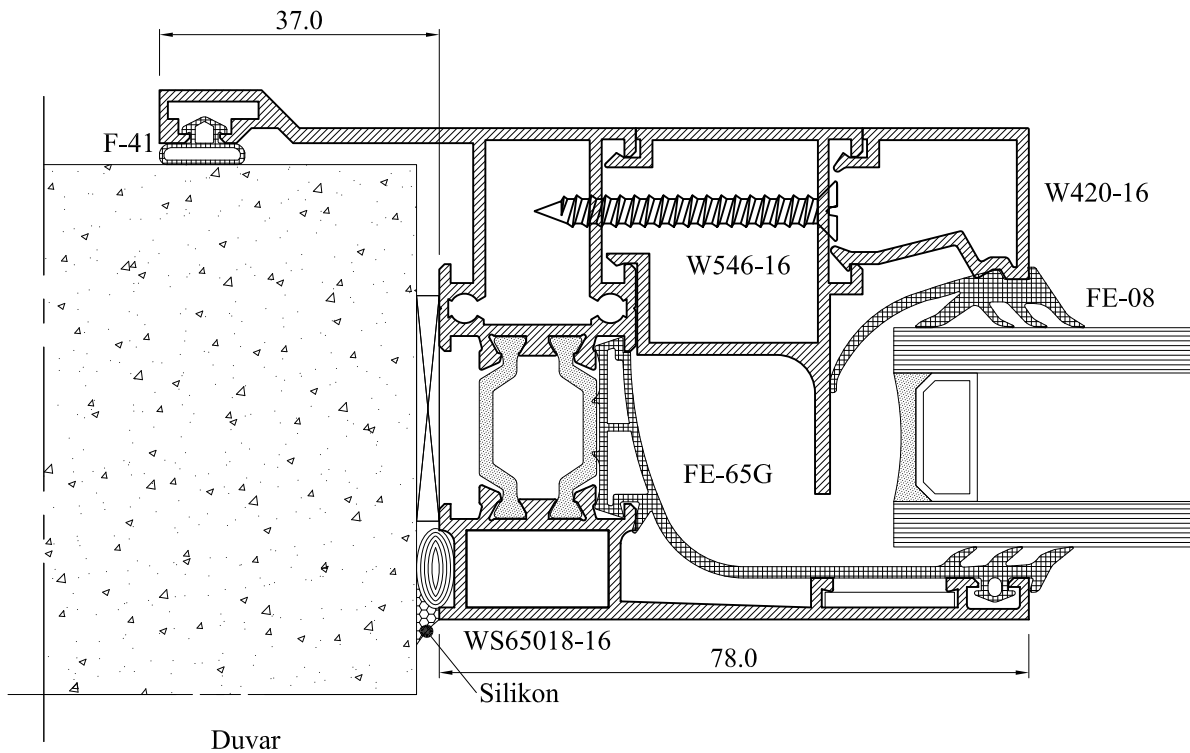
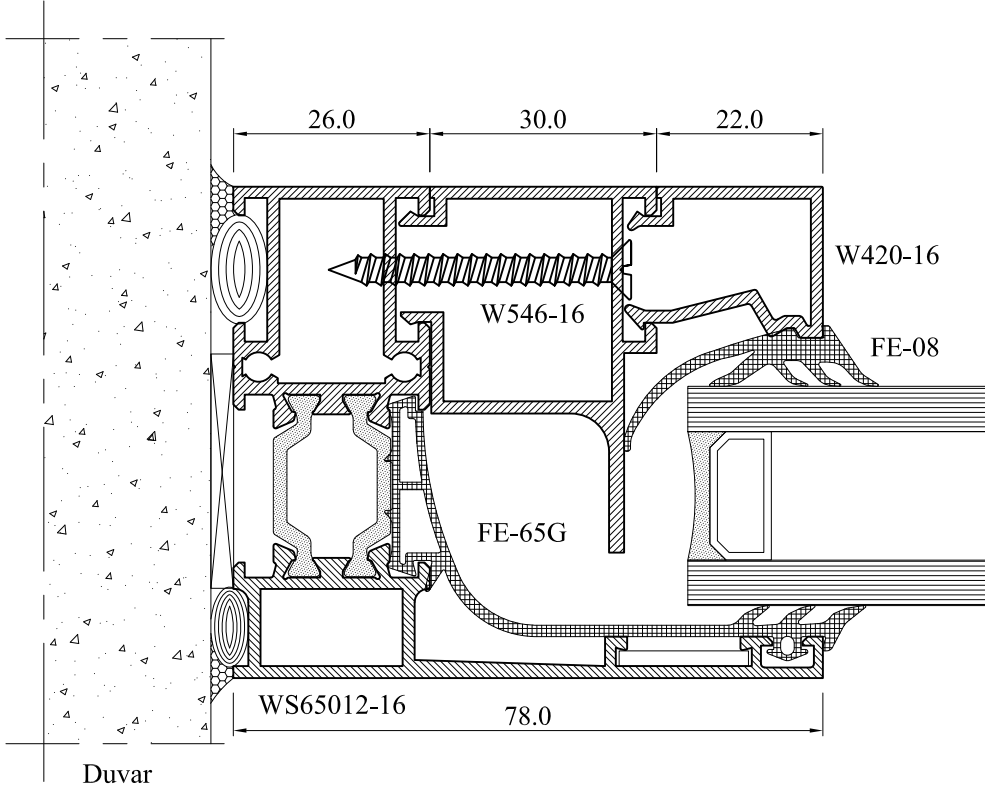
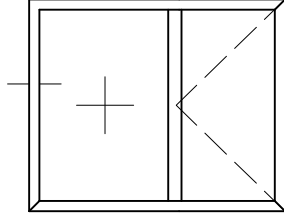
Sabit ve Açılır Kanat Birleşim Detayı



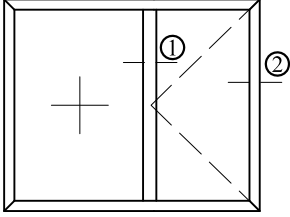
Dışa Açılır Topal Kapı



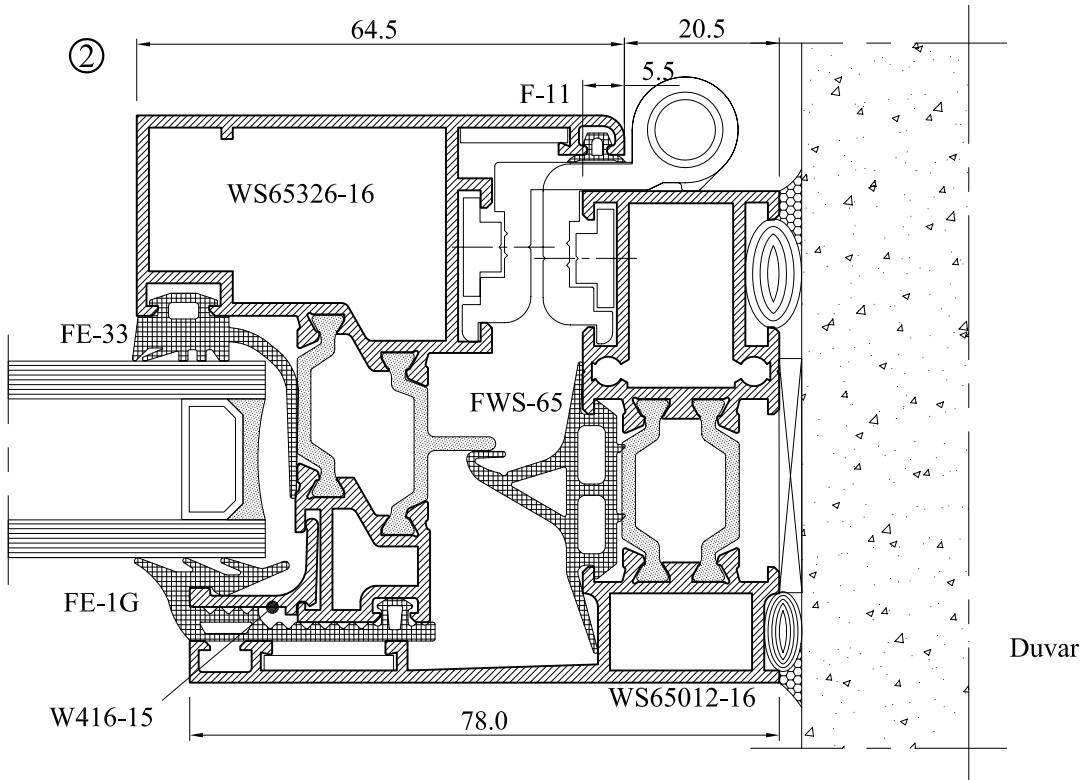
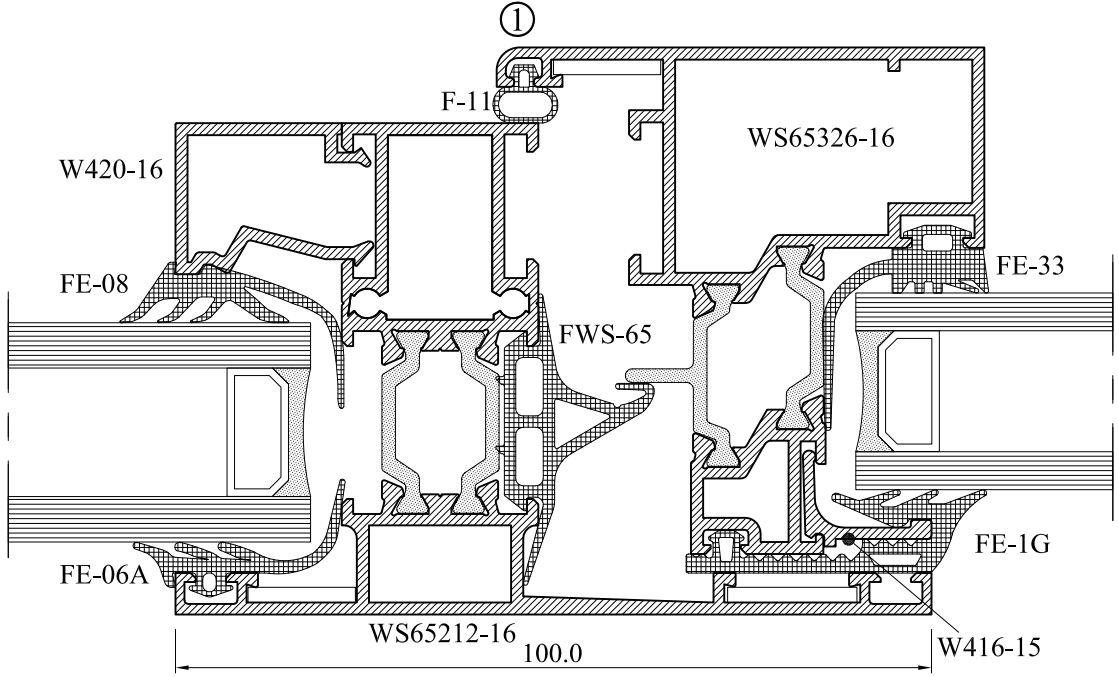
- 1)- Gizli Kanat Sabit - Yan Duvar Birleşim Detayı (Düz Kasa İle)
- 2)- Gizli Kanat Sabit - Yan Duvar Birleşim Detayı (Pervazlı Kasa İle)

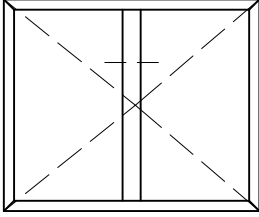




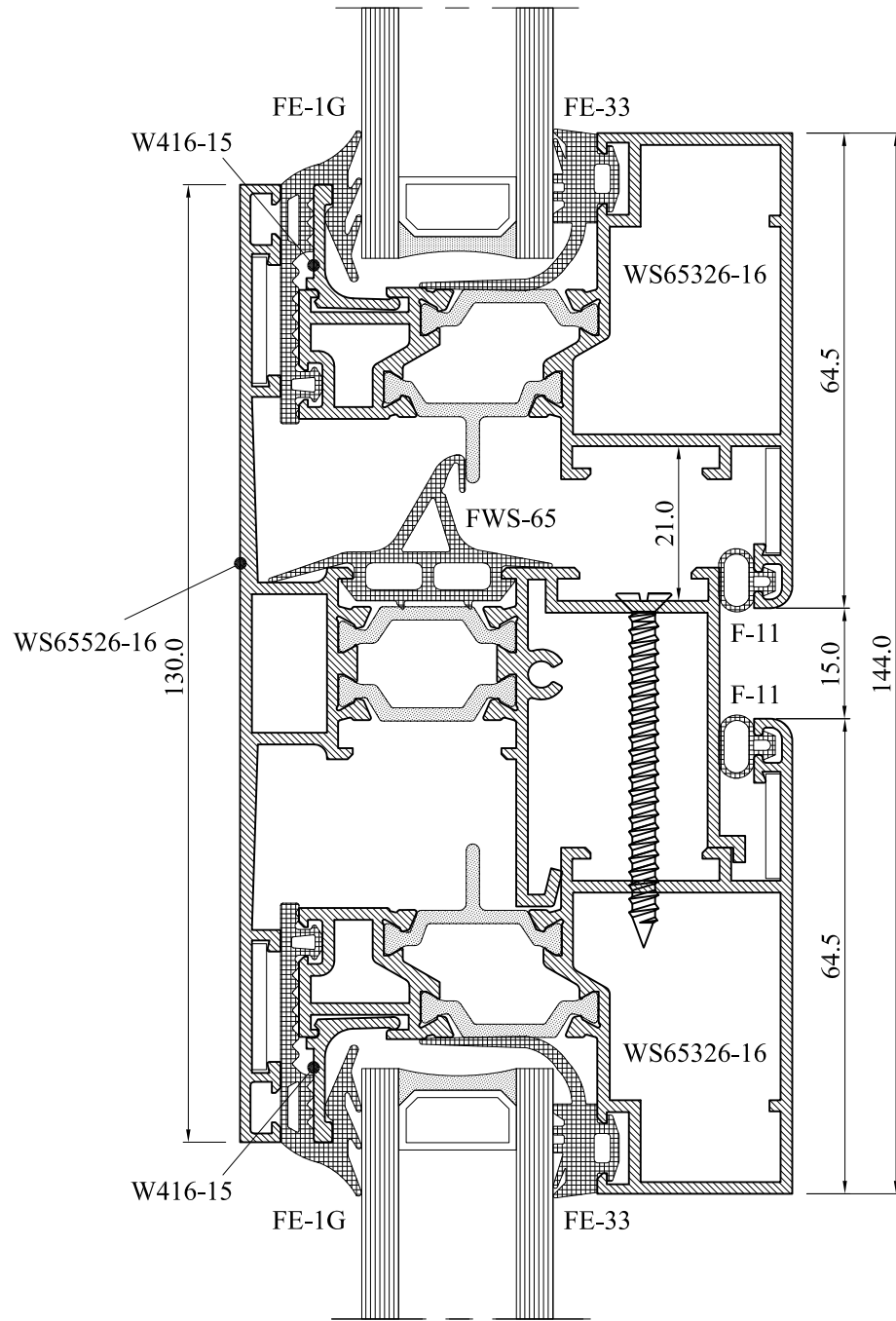


- 1)- Gizli Kanat Sabit ve Açılır Kanat Birleşim Detayı  
2)- Gizli Kanat Açılır Kanat - Duvar Birleşim Detayı

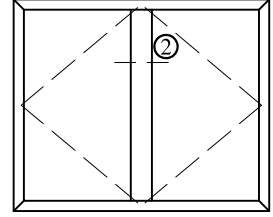
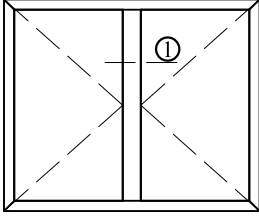




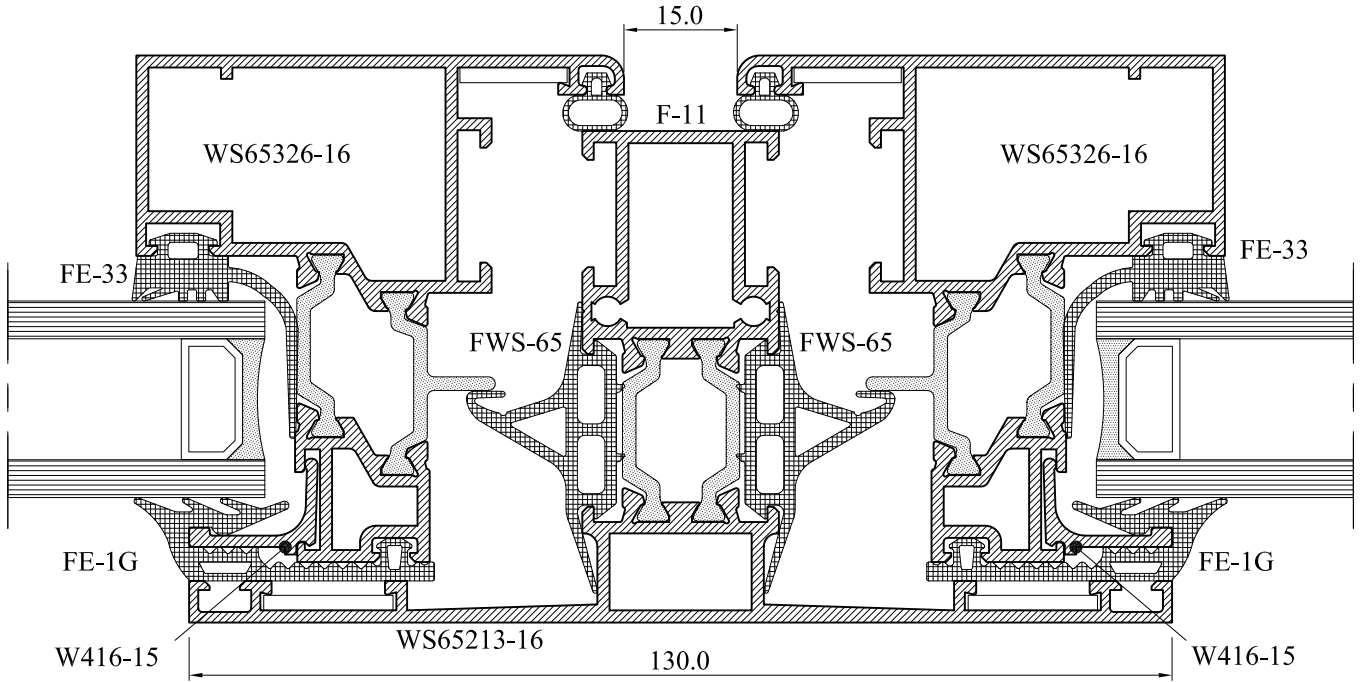
Gizli Kanat Orta Kayıtsız Çift Kanat Pencere  
Orta Birleşim Detayı



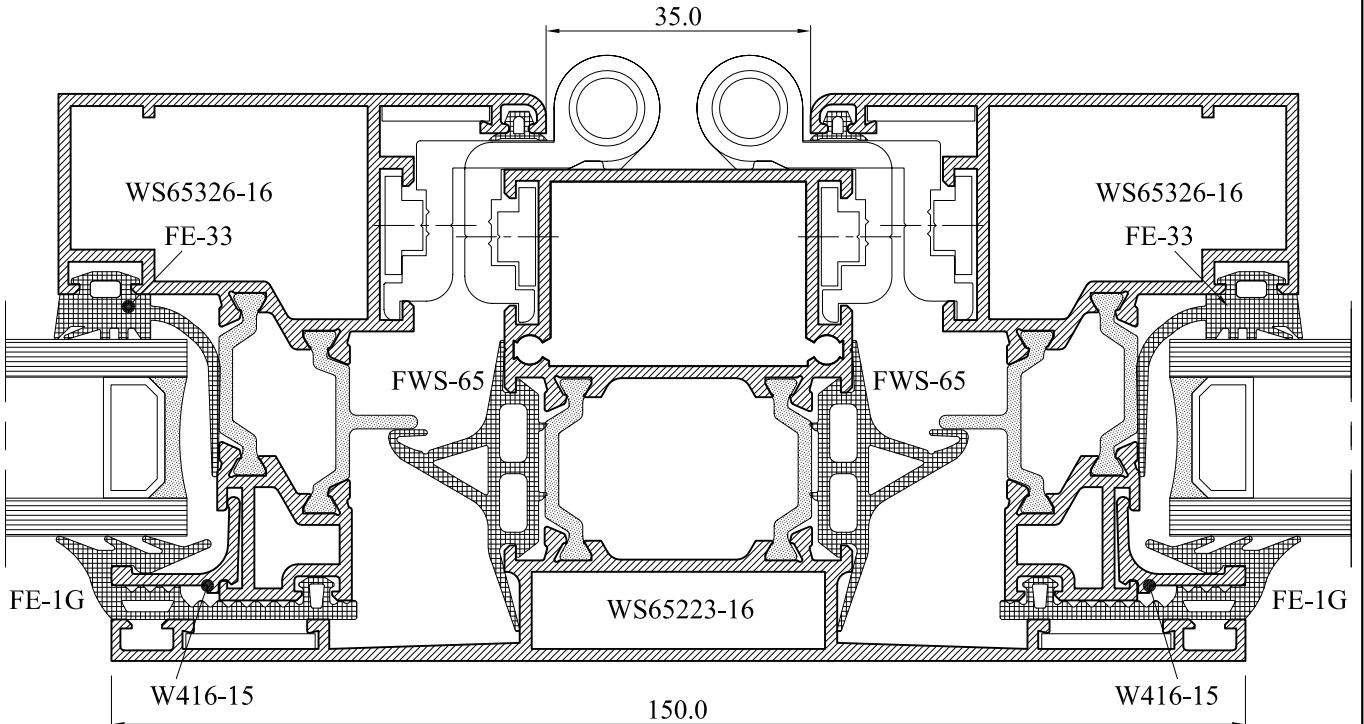
Gizli Kanat Orta Kayıtlı Çift Kanat  
Pencere Orta Birleşim Detayı



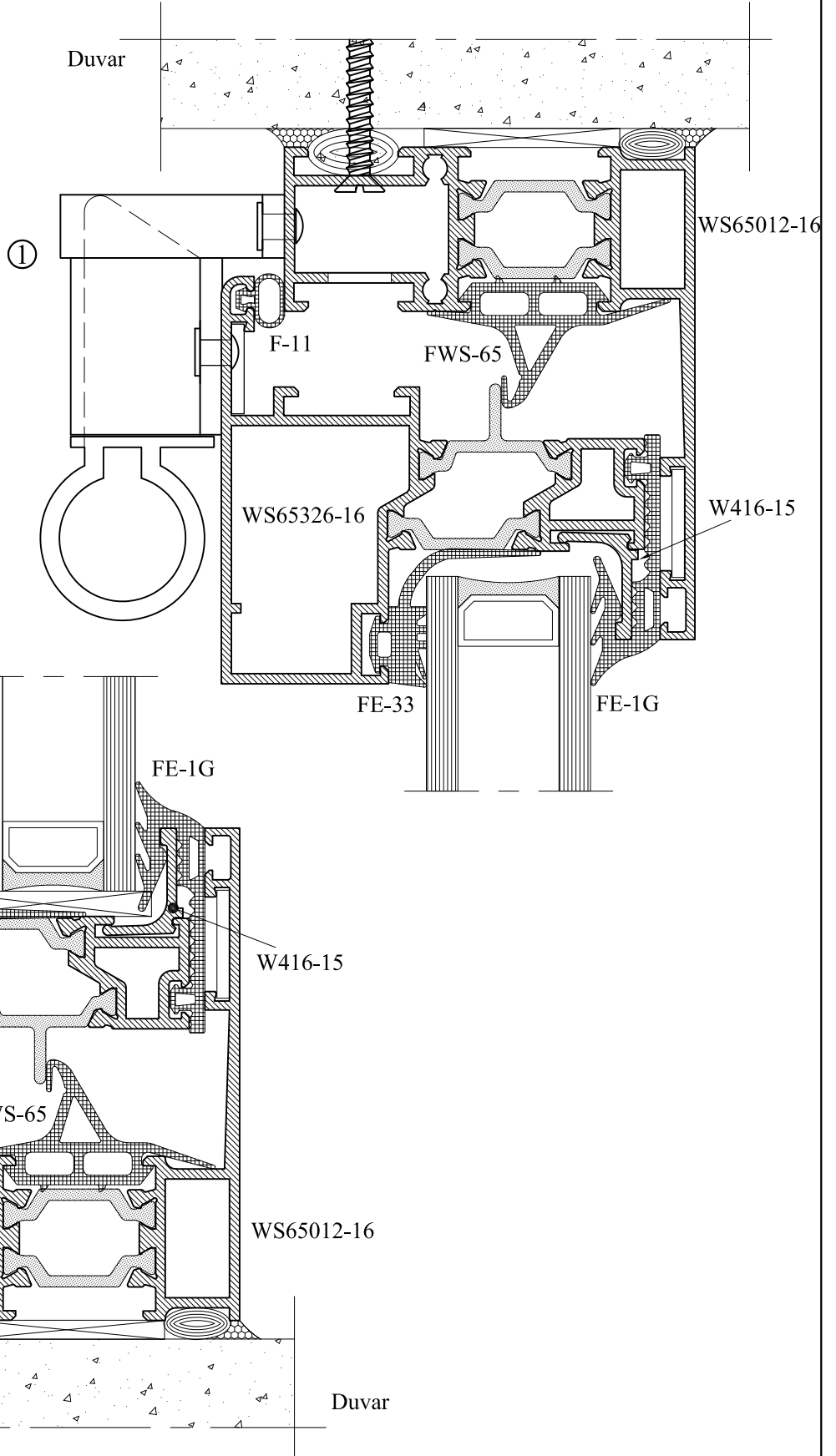
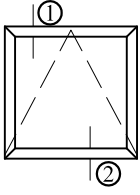
1)- Menteşe Kasalarda Dar Orta Kayıtlı Çözüm



2)- Menteşe Orta Kayıtlı Geniş Orta Kayıtlı Çözüm



Gizli Kanat Vasistas Açılım



Köşe Dönüş Detayı

