



# ROUTE

## SYSTEMS

### FR50

### CEPHE

### SİSTEMLERİ

FACADE SYSTEMS





2006 yılında Ankara - Sincan OSB'de kurulan Almin Alüminyum, 25.000 m<sup>2</sup>'lik modern tesisinde, yıllık 14.000 ton üretim kapasitesiyle Türkiye'nin önde gelen alüminyum profil üreticilerindendir.

Özel alaşımlı ve hassas toleranslı profil üretiminde uzmanlaşan Almin, mühendislik tecrübesi ve profesyonel kadrosuyla yüksek kaliteyi üretimin her aşamasına yansıtır. Entegre üretim yapımız; kalıp tasarımı, alüminyum ekstrüzyona, elektrostatik toz boyama, eloksal kaplama ve mekanik işleme kadar tüm süreçleri tek çatı altında sunar.

Geniş makine parkurumuz (5", 2 adet 6" ve 7" pres hatları) ile mimari sistemlerden otomotive, mobilyadan inşaat sanayine, solar enerjiye kadar farklı sektörlere özel, esnek ve sürdürülebilir çözümler sunuyoruz.

TS EN 12020, TS EN 755-1:2016, ISO 9001, ISO 14001, ISO 45001 ve QUALANOD belgelerine sahip üretim sistemimiz; kalite, çevre ve iş güvenliği standartlarına tam uyum sağlar.

Almin USA LLC ile ABD pazarında aktif rol alırken, Avrupa, Orta Doğu ve Afrika başta olmak üzere birçok ülkeye ihracat yapmaktayız. Küresel pazarda büyümeyi sürdürüyor, projelere değer katan yenilikçi çözümler geliştiriyoruz.



Almin Alüminyum olarak, 40 yılı aşkın mühendislik birikimimizi ve üretim tecrübemizi, modern mimarinin gerektirdiği estetik anlayış ve teknik uzmanlıkla buluşturduk. Bu yaklaşımın bir sonucu olarak geliştirdiğimiz ROUTE Mimari Sistemler, sektöre çağdaş, çevreci ve yüksek performanslı çözümler sunan yenilikçi bir sistemdir.

ROUTE, yalnızca bir sistem değil; aynı zamanda yeni nesil yapı projeleri için tasarlanmış bütüncül bir mimari vizyondur. Estetik ve işlevselliği bir arada sunarak, kullanıcı beklentileri ile teknik gereklilikleri dengeli biçimde karşılar.

Avrupa normlarına uygun aksesuarlar ve yüksek performans kriterleriyle öne çıkan ROUTE, zarif tasarımı ve mühendislik odaklı detaylarıyla projelere değer katar.

Sürdürülebilirliği, güvenilirliği ve estetik çizgileriyle ROUTE, mimari projelerde fark yaratmak isteyen profesyoneller için güçlü bir tercihtir. Almin Alüminyum güvencesiyle geliştirilen bu sistem, modern yapıların yeni standardıdır.



## İÇİNDEKİLER

### CONTENTS

|   |                                                                                                                                                                                                                                                                         |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <b>GENEL BİLGİLER</b> <span style="float: right;">1-3</span><br><i>General Information</i> <ul style="list-style-type: none"><li>• TEKNİK ÖZELLİKLER <span style="float: right;">2</span></li><li>• KULLANIM SEÇENEKLERİ <span style="float: right;">3</span></li></ul> |
| 2 | <b>PROFİL LİSTESİ</b> <span style="float: right;">4-10</span><br><i>Profile List</i>                                                                                                                                                                                    |
| 3 | <b>DİKME PROFİLLER</b> <span style="float: right;">11-23</span><br><i>Mullion Profiles</i>                                                                                                                                                                              |
| 4 | <b>KAYIT PROFİLLER</b> <span style="float: right;">24-32</span><br><i>Transom Profiles</i>                                                                                                                                                                              |
| 5 | <b>YARDIMCI PROFİLLER</b> <span style="float: right;">33-48</span><br><i>Auxiliary Profiles</i>                                                                                                                                                                         |
| 6 | <b>KAPAKLI CEPHE DETAYLARI</b> <span style="float: right;">49-56</span><br><i>Capped Curtain Wall Details</i>                                                                                                                                                           |
| 7 | <b>SİLİKON CEPHE DETAYLARI</b> <span style="float: right;">57-65</span><br><i>Silicone Facade Details</i>                                                                                                                                                               |





|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8  | <b>2. SİLİKON CEPHE DETAYLARI</b> <b>66-78</b><br><i>Silicone Facade Details</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 9  | <b>ATÖLYE MONTAJ/ UYGULAMA DETAYLARI</b> <b>79-93</b><br><i>Workshop Assembly Details</i> <ul style="list-style-type: none"><li>• YATAY KAYIT BAĞLANTI DETAYI 80-82</li><li>• GENLEŞME CONTASI DETAYI 83</li><li>• YÜK ALICI PROFİL DETAYI 84</li><li>• FR-027 WARM EDGE ISICAM ÇİTASI DETAYI 85</li><li>• SİLİKON CEPHE UYGULAMA DETAYLARI 86-87</li><li>• TAHLİYE DELİK ŞEMALARI 88</li><li>• KAPAK MONTAJ DETAYI 89</li><li>• CEPHE ALT BİTİŞ DETAYI 90-91</li><li>• MB-50101 SET MESAFE BELİRLEYİCİ SABİTLEME PARÇASI 92</li><li>• MB-50102 ADET KASET HİZALAMA PARÇASI 93</li></ul> |
| 10 | <b>AKSESUAR LİSTESİ</b> <b>94-101</b><br><i>Accessory List</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |





**ROUTE**  
SYSTEMS

**FR50**

FACADE SYSTEMS

## GENEL BİLGİLER /

GENERAL INFORMATION



**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



## ÜRÜN KONSEPTİ / PRODUCT CONCEPT

FR50 “50mm”, kapalı, yarı kapalı, kaset silikon ve cam cephe seçeneklerini tek bir sistemde birleştiren yüksek performanslı bir giydirme cephe sistemidir.

### ENERJİ TASARRUFU

Çevreye duyarlılık ve enerji tasarrufu konuları gün geçtikçe önem kazanmakta olduğundan FR50’de ısı yalıtım özellikleri üst düzeyde tutuldu. Alüminyum, yapısı gereği soğuk bir materyal olmasına rağmen gelişen malzeme çeşitliliği, dizayn yöntemleri ve teknolojilerle artık oldukça yalıtkan bir yapı haline dönüştürülebilmektedir.

FR50 tamamen günümüz ihtiyaçlarına uygun şekilde performans odaklı olarak tasarlandı. Yüksek termal ve hava-su sızdırmazlık performanslarının yanı sıra, geniş kullanım seçenekleri ve kolay imalat özellikleri de sistemin öne çıkan yanlarındandır.

### YENİLİKÇİ TASARIM

Tasarımda dik köşeli ve kalın hatlar yapıyı konvansiyonel bir havaya büründürmektedir. Bu duruma karşı BG 60’da ince profil kesitleri, kıvrımlı yüzey ve eğimli kenarların yanında büyük radyüslü köşeler tercih edildi. Bunlar yapılırken sistemin kullanım kolaylığı ve imalat özelliklerinden de feragat edilmedi.

### İMALAT KOLAYLIĞI

Sistemin sahip olduğu aksesuarlar büyük ölçüde tek tipe indirgenerek standartlaşmaya önem verildi. Daha az çeşitte ve ortak kullanımda olan bu aksesuarların bir getirisi olarak farklı tiplerdeki ürünleri aynı aksesuarları kullanarak ortaya çıkarmak mümkün hale gelmektedir.

### GELİŞTİRİLEBİLİRLİK

FR50, genel sistem konsepti olarak kolaylıkla genişletilebilir yapıdadır. Bu sayede eklenecek yeni çözümlerinin sisteme adaptesi hızlı biçimde yapılabilmektedir.

FR50 “50mm” is a high-performance curtain wall system that combines closed, semi-closed, cassette silicone and glass facade options in a single system.

### ENERGY SAVINGS

Subjects of environment sensitivity and energy saving become important day by day. For this reason thermal insulation specifications was become on high level. In spite of Aluminium is a cold material in accordance with its structure, it can be as insulative composite structure by variability of materials, design methods and technologies.

FR50 was designed exactly performance-focused as requirements of present day. Important sides of FR50 are high performances of thermal and air-water tightness, variously usage options, easy manufacturing specifications.

### INNOVATIVE DESIGN

Structure is look like conventional with vertical corner and thick lines in design. Conversely the corners with huge radius preferred with thin profile sections, curly surface and pitched edges. But ease of use and manufacturing specifications did not abandoned.

### EASE OF MANUFACTURING

Accessories of FR50 was mostly standardized. These accessories used generally common with each other. By this method, different types of products is manufactured with the same accessories.

### IMPROVABILITY

FR50 has the developable system concept as general. In this way adaptation of new system solutions can be done quickly.



### TEKNİK ÖZELLİKLER

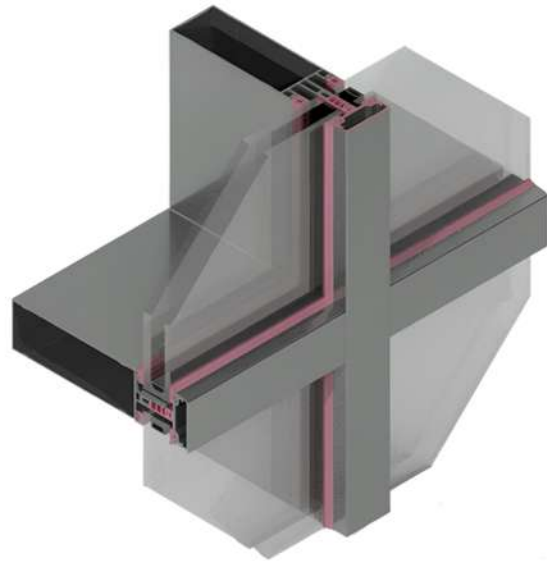
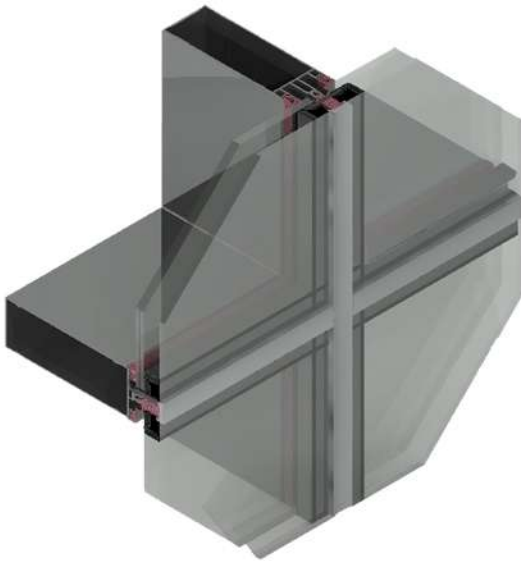
#### TECHNICAL PROPERTIES

|                                                           |                                    |
|-----------------------------------------------------------|------------------------------------|
| PROFİL GENİŞLİKLERİ / PROFILE WIDTHS :                    | 50 mm                              |
| DİKME DERİNLİKLERİ / MULLION DEPTHS :                     | 50,60,80,100,120,130,140...200,220 |
| KAYIT DERİNLİKLERİ / TRANSOM DEPTHS :                     | 56,66,86,106,126,136,146...206,226 |
| PROFİL ET KALINLIĞI / PROFILE WALL THICKNESS :            | 1,6mm 2 - 8 mm                     |
| MAX. CAM KALINLIĞI / MAX. GLASS THICKNESS :               | 50 mm                              |
| ISI BARIYERLERİ / INSULATION BARS :                       | 10 - 40 mm                         |
| ISI YALITIM DEĞERİ (Uf) / THERMAL INSULATION VALUE (Uf) : | 1,32 W/m²K - 1,98 W/m²K            |

### KULLANIM SEÇENEKLERİ

#### APPLICATION ALTERNATIVES

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



**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



**ROUTE**  
SYSTEMS

**FR50**

FACADE SYSTEMS

## PROFİL LİSTESİ /

*PROFILE LIST*



**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



## Profil Listesi / List of Profile

| No | Profil Şekli/ Profile | Profil Kodu<br>Profile Code | Kalıp Kodu /<br>Code | Profil Adı /<br>Profile Name | Ağırlık (kg/m)<br>Weight | Atalet Momentleri<br>Moments of Inertia |                     |
|----|-----------------------|-----------------------------|----------------------|------------------------------|--------------------------|-----------------------------------------|---------------------|
|    |                       |                             |                      |                              |                          | J <sub>x</sub> (cm)                     | J <sub>y</sub> (cm) |
| 1  |                       | FR50-50M                    | C-1601               | FR50-50M Dikme Profil        | 1.39 kg/m                | 19.36                                   | 14.8                |
| 2  |                       | FR50-60M                    | C-1602               | FR50-60M Dikme Profil        | 1.505 kg/m               | 29.97                                   | 17.2                |
| 3  |                       | FR50-80M                    | C-1603               | FR50-80M Dikme Profil        | 1.688 kg/m               | 57.56                                   | 20.95               |
| 4  |                       | FR50-100M                   | C-1604               | FR50-100M Dikme Profil       | 1.851 kg/m               | 97.03                                   | 24.7                |
| 5  |                       | FR50-120M                   | C-1605               | FR50-120M Dikme Profil       | 2.191 kg/m               | 162.28                                  | 31.06               |
| 6  |                       | FR50-130M                   | C-2001               | FR50-130M Dikme Profil       | 2.455 kg/m               | 209.8                                   | 35.7                |
| 7  |                       | FR50-140M-1.6               | C-1606               | FR50-140M-1.6 Dikme Profil   | 2.216 kg/m               | 221.0                                   | 32.46               |
| 8  |                       | FR50-140M-2.0               | C-2002               | FR50-140M-2.0 Dikme Profil   | 2.727 kg/m               | 279.87                                  | 38.92               |
| 9  |                       | FR50-150M                   | C-2003               | FR50-150M Dikme Profil       | 2.835 kg/m               | 330.55                                  | 41.24               |
| 10 |                       | FR50-160M-2.0               | C-2004               | FR50-160M-2.0 Dikme Profil   | 2.859 kg/m               | 359.7                                   | 43.39               |
| 11 |                       | FR50-160M-4.0               | C-2005               | FR50-160M-4.0 Dikme Profil   | 3.042 kg/m               | 413.57                                  | 43.91               |
| 12 |                       | FR50-180M-2.0               | C-2006               | FR50-180M-2.0 Dikme Profil   | 3.09 kg/m                | 482.67                                  | 48.2                |
| 13 |                       | FR50-180M-5.0               | C-2007               | FR50-180M-5.0 Dikme Profil   | 3.109 kg/m               | 584.2                                   | 49.27               |





## Profil Listesi / List of Profile

| No | Profil Şekli/ Profile | Profil Kodu<br>Profile Code | Kalıp Kodu /<br>Code | Profil Adı /<br>Profile Name | Ağırlık (kg/m)<br>Weight | Atalet Momentleri<br>Moments of Inertia |                     |
|----|-----------------------|-----------------------------|----------------------|------------------------------|--------------------------|-----------------------------------------|---------------------|
|    |                       |                             |                      |                              |                          | J <sub>x</sub> (cm)                     | J <sub>y</sub> (cm) |
| 14 |                       | FR50-200M-2.5               | C-2008               | FR50-200M-2.5 Dikme Profil   | 3.389 kg/m               | 652.0                                   | 53.57               |
| 15 |                       | FR50-200M-6.0               | C-2009               | FR50-200M-6.0 Dikme Profil   | 3.795 kg/m               | 802.9                                   | 55.44               |
| 16 |                       | FR50-220M-2.5               | C-2010               | FR50-220M-2.5 Dikme Profil   | 3.606 kg/m               | 825.23                                  | 58.18               |
| 17 |                       | FR50-220M-8.0               | C-2011               | FR50-220M-8.0 Dikme Profil   | 4.197 kg/m               | 1083.47                                 | 60.69               |
| 18 |                       | FR50-56T                    | C-1607               | FR50-56T Yatay Profil        | 1.230 kg/m               | 22.98                                   | 14.98               |
| 19 |                       | FR50-66T                    | C-1608               | FR50-66T Yatay Profil        | 1.317 kg/m               | 33.47                                   | 16.86               |
| 20 |                       | FR50-86T                    | C-1609               | FR50-86T Yatay Profil        | 1.491 kg/m               | 61.66                                   | 20.61               |
| 21 |                       | FR50-106T                   | C-1610               | FR50-106T Yatay Profil       | 1.66 kg/m                | 100.5                                   | 24.28               |
| 22 |                       | FR50-126T                   | C-1611               | FR50-126T Yatay Profil       | 1.838 kg/m               | 151.94                                  | 28.11               |
| 23 |                       | FR50-136T                   | C-1612               | FR50-136T Yatay Profil       | 1.924 kg/m               | 182.8                                   | 29.98               |
| 24 |                       | FR50-146T                   | C-1613               | FR50-146T Yatay Profil       | 2.06 kg/m                | 228.16                                  | 32.55               |
| 25 |                       | FR50-156T                   | C-2012               | FR50-156T Yatay Profil       | 2.494 kg/m               | 296.49                                  | 40.46               |
| 26 |                       | FR50-166T                   | C-2013               | FR50-166T Yatay Profil       | 2.593 kg/m               | 343.74                                  | 42.82               |





## Profil Listesi / List of Profile

| No | Profil Şekli/ Profile | Profil Kodu<br>Profile Code | Kalıp Kodu /<br>Code | Profil Adı /<br>Profile Name   | Ağırlık (kg/m)<br>Weight | Atalet Momentleri<br>Moments of Inertia |                     |
|----|-----------------------|-----------------------------|----------------------|--------------------------------|--------------------------|-----------------------------------------|---------------------|
|    |                       |                             |                      |                                |                          | J <sub>x</sub> (cm)                     | J <sub>y</sub> (cm) |
| 27 |                       | FR50-186T                   | C-2014               | FR50-186T Yatay Profil         | 2.836 kg/m               | 452.24                                  | 48.2                |
| 28 |                       | FR50-206T                   | C-2015               | FR50-206T Yatay Profil         | 3.053kg/m                | 584.08                                  | 52.63               |
| 29 |                       | FR50-226T                   | C-2016               | FR50-226T Yatay Profil         | 3.269 kg/m               | 737.74                                  | 57.22               |
| 30 |                       | FR50-001                    | C-001                | FR50-Kapak Bağlantı Profili    | 0.463 kg/m               | -                                       | -                   |
| 31 |                       | FR50-002                    | C-002                | FR50-Kapak Profili<br>16mm     | 0.355 kg/m               | -                                       | -                   |
| 32 |                       | FR50-003                    | C-003                | FR50-Kapak Profili<br>15mm     | 0.341 kg/m               | -                                       | -                   |
| 33 |                       | FR50-004                    | C-004                | FR50-Kapak Profili<br>50mm     | 0.78 kg/m                | -                                       | -                   |
| 34 |                       | FR50-005                    | C-005                | FR50-Kapak Profili<br>98.4mm   | 1.214 kg/m               | -                                       | -                   |
| 35 |                       | FR50-006                    | C-006                | FR50-Kapak Profili<br>148.4 mm | 1.62 kg/m                | -                                       | -                   |
| 36 |                       | FR50-007                    | C-007                | FR50-Kapak Profili             | 0.321 kg/m               | -                                       | -                   |
| 37 |                       | FR50-008                    | C-008                | FR50-Kapak Profili<br>198.4 mm | 2.509 kg/m               | -                                       | -                   |
| 38 |                       | FR-001                      | CO-001               | Gaga Profili                   | 0.280 kg/m               | -                                       | -                   |
| 39 |                       | FR-002                      | CO-002               | Cam Klips Yuva Profili         | 0.335 kg/m               | -                                       | -                   |





## Profil Listesi / List of Profile

| No | Profil Şekli/ Profile | Profil Kodu<br>Profile Code | Kalıp Kodu /<br>Code | Profil Adı /<br>Profile Name  | Ağırlık (kg/m)<br>Weight | Atalet Momentleri<br>Moments of Inertia |                     |
|----|-----------------------|-----------------------------|----------------------|-------------------------------|--------------------------|-----------------------------------------|---------------------|
|    |                       |                             |                      |                               |                          | J <sub>x</sub> (cm)                     | J <sub>y</sub> (cm) |
| 40 |                       | FR-003                      | CO-003               | Cam Klips Yuva Profili        | 0.321kg/m                | -                                       | -                   |
| 41 |                       | FR-004                      | CO-004               | Tek Cam Çıta Profili 45°      | 0.113 kg/m               | -                                       | -                   |
| 42 |                       | FR-005                      | CO-005               | Tek Cam Çıta Profili 28°      | 0.115 kg/m               | -                                       | -                   |
| 43 |                       | FR-006                      | CO-006               | Tek Cam Çıta Profili 8°       | 0.097 kg/m               | -                                       | -                   |
| 44 |                       | FR-007                      | CO-007               | Tek Cam Çıta Profili<br>14 mm | 0.145 kg/m               | -                                       | -                   |
| 45 |                       | FR-008                      | CO-008               | Tek Cam Çıta Profili<br>18 mm | 0.176 kg/m               | -                                       | -                   |
| 46 |                       | FR-009                      | CO-009               | Tek Cam Çıta Profili<br>22 mm | 0.211kg/m                | -                                       | -                   |
| 47 |                       | FR-010                      | CO-010.1<br>CO-010.2 | Kaset Profili 69.3 mm         | 1.072 kg/m               | 17.39                                   | 16.44               |
| 48 |                       | FR-011                      | CO-011               | Kasa Profili 81.7 mm          | 1.019 kg/m               | 17.04                                   | 18.13               |
| 49 |                       | FR-012                      | CO-010.1<br>CO-012   | Kaset Profili 91.2 mm         | 1.243 kg/m               | 34.98                                   | 24.17               |
| 50 |                       | FR-013                      | CO-013               | Kasa Profili 103.6 mm         | 1.024 kg/m               | 33.7                                    | 24.6                |
| 51 |                       | FR-014                      | CO-14                | Kaset Profil                  | 0.891 kg/m               | -                                       | -                   |
| 52 |                       | FR-015                      | CO-015               | Kompozit Profil               | 0.891 kg/m               | -                                       | -                   |





## Profil Listesi / List of Profile

| No | Profil Şekli/ Profile | Profil Kodu<br>Profile Code | Kalıp Kodu /<br>Code | Profil Adı /<br>Profile Name | Ağırlık (kg/m)<br>Weight | Atalet Momentleri<br>Moments of Inertia |                     |
|----|-----------------------|-----------------------------|----------------------|------------------------------|--------------------------|-----------------------------------------|---------------------|
|    |                       |                             |                      |                              |                          | J <sub>x</sub> (cm)                     | J <sub>y</sub> (cm) |
| 53 |                       | FR-016                      | CO-016               | Spandrel Profil              | 0.891 kg/m               | -                                       | -                   |
| 54 |                       | FR-017                      | CO-017               | Bonding Profil               | 0.091 kg/m               | -                                       | -                   |
| 55 |                       | FR-018                      | CO-018               | Klips Profil                 | 0.204 kg/m               | -                                       | -                   |
| 56 |                       | RO-001                      | SO-001               | Tij Profil                   | 0.091 kg/m               | -                                       | -                   |
| 57 |                       | FR-019                      | CO-019               | Yük Alıcı Profil             | 0.178 kg/m               | -                                       | -                   |
| 58 |                       | FR50-009                    | C-009                | Yük Alıcı Profil<br>32.2 mm  | 0.254 kg/m               | -                                       | -                   |
| 59 |                       | FR50-010                    | C-010                | Yük Alıcı Profil<br>36 mm    | 0.276 kg/m               | -                                       | -                   |
| 60 |                       | FR50-011                    | C-011                | Yük Alıcı Profil<br>38 mm    | 0.289 kg/m               | -                                       | -                   |
| 61 |                       | FR50-012                    | C-012                | Yük Alıcı Profil<br>38.8 mm  | 0.496 kg/m               | -                                       | -                   |
| 62 |                       | FR50-013                    | C-013                | Yük Alıcı Profil<br>44.8 mm  | 0.567kg/m                | -                                       | -                   |
| 63 |                       | FR50-014                    | C-014                | Yük Alıcı Profil<br>50.8 mm  | 0.634 kg/m               | -                                       | -                   |
| 64 |                       | FR-020                      | CO-020               | Karşılık Profili             | 0.343 kg/m               | -                                       | -                   |
| 65 |                       | FR-021                      | CO-021               | Çift Klipsli Profil          | 0.365 kg/m               | -                                       | -                   |





## Profil Listesi / List of Profile

| No | Profil Şekli/ Profile | Profil Kodu<br>Profile Code | Kalıp Kodu /<br>Code | Profil Adı /<br>Profile Name | Ağırlık (kg/m)<br>Weight | Atalet Momentleri<br>Moments of Inertia |                     |
|----|-----------------------|-----------------------------|----------------------|------------------------------|--------------------------|-----------------------------------------|---------------------|
|    |                       |                             |                      |                              |                          | J <sub>x</sub> (cm)                     | J <sub>y</sub> (cm) |
| 66 |                       | FR-022                      | CO-022               | Tekli Klipsli Profil         | 0.245 kg/m               | -                                       | -                   |
| 67 |                       | FR-023                      | CO-023               | Çiftli Klipsli Profil        | 0.405 kg/m               | -                                       | -                   |
| 68 |                       | FR-024                      | CO-024               | Tekli Klipsli Profil         | 0.284 kg/m               | -                                       | -                   |
| 69 |                       | FR50-016                    | C-032                | Dilatasyon Profili           | 4.071 kg/m               | -                                       | -                   |
| 70 |                       | FR50-015                    | C-015                | U Bağlantı Profili           | 1.094 kg/m               | -                                       | -                   |
| 71 |                       | FR-025                      | CO-025               | Takoz Profili                | 2.96 kg/m                | -                                       | -                   |
| 72 |                       | FR-026                      | CO-026               | Cam Arası Profili            | 0.335 kg/m               | -                                       | -                   |
| 73 |                       | FR-027                      | CO-027               | Cam Arası Profili            | 0.083 kg/m               | -                                       | -                   |





**ROUTE**  
SYSTEMS

**FR50**

FACADE SYSTEMS

## **DİKME PROFİLLER/**

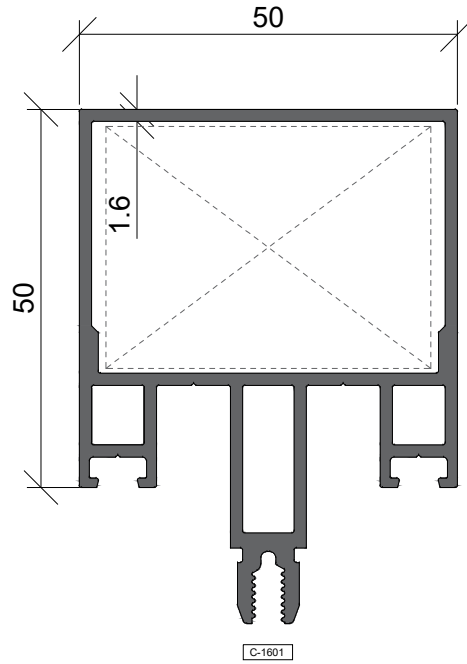
*MULLION PROFILES*



**Almin®**  
Alüminyum Profil

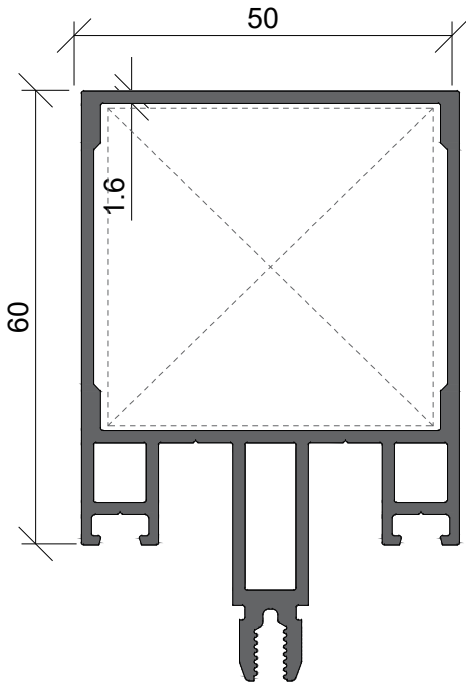
*TESCİLLİ MARKASIDIR.*

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



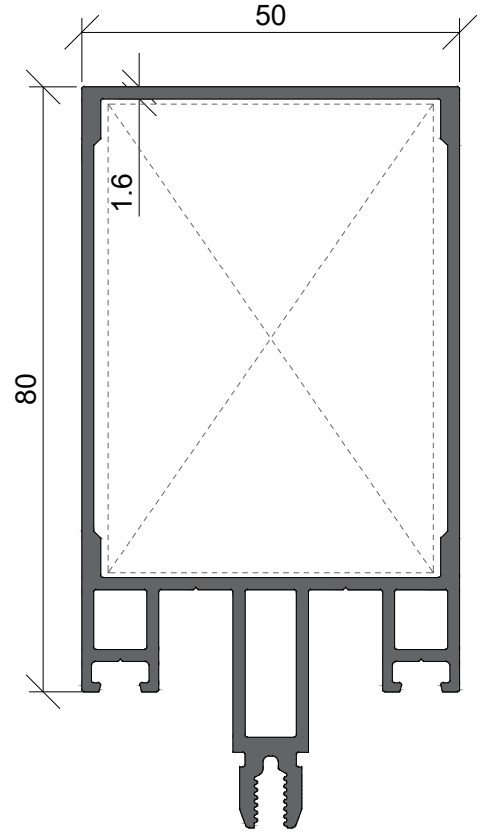
|                       |                       |
|-----------------------|-----------------------|
| Kod                   | FR50-50M              |
| Ağırlık               | 1.390 Kg/m            |
| Jx                    | 19.36 cm <sup>4</sup> |
| Jy                    | 14.8 cm <sup>4</sup>  |
| Et Kalınlık           | 1.6 mm                |
| Dilatasyon Bağlantısı |                       |
| 43DL32                |                       |





C-1602

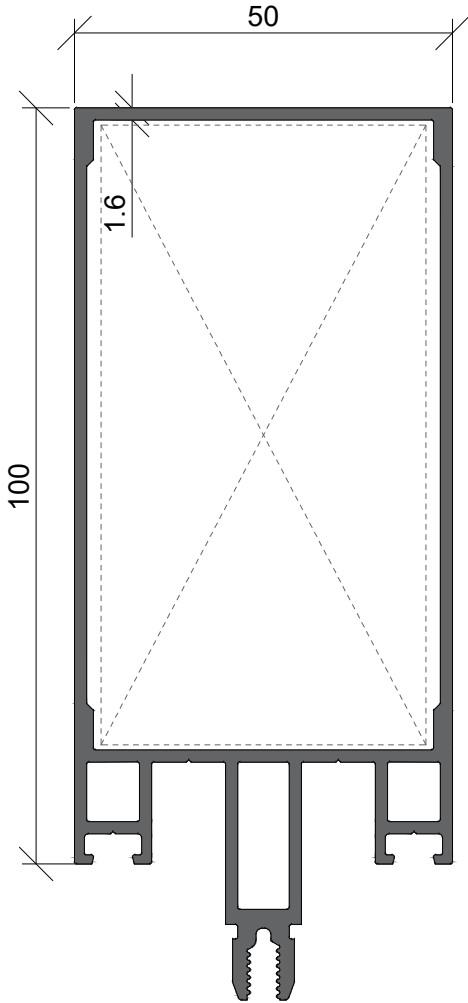
|                       |                       |
|-----------------------|-----------------------|
| Kod                   | FR50-60M              |
| Ağırlık               | 1.505 Kg/m            |
| Jx                    | 29.97 cm <sup>4</sup> |
| Jy                    | 17.2 cm <sup>4</sup>  |
| Et Kalınlık           | 1.6 mm                |
| Dilatasyon Bağlantısı |                       |
| 43DL42                |                       |



C-1603

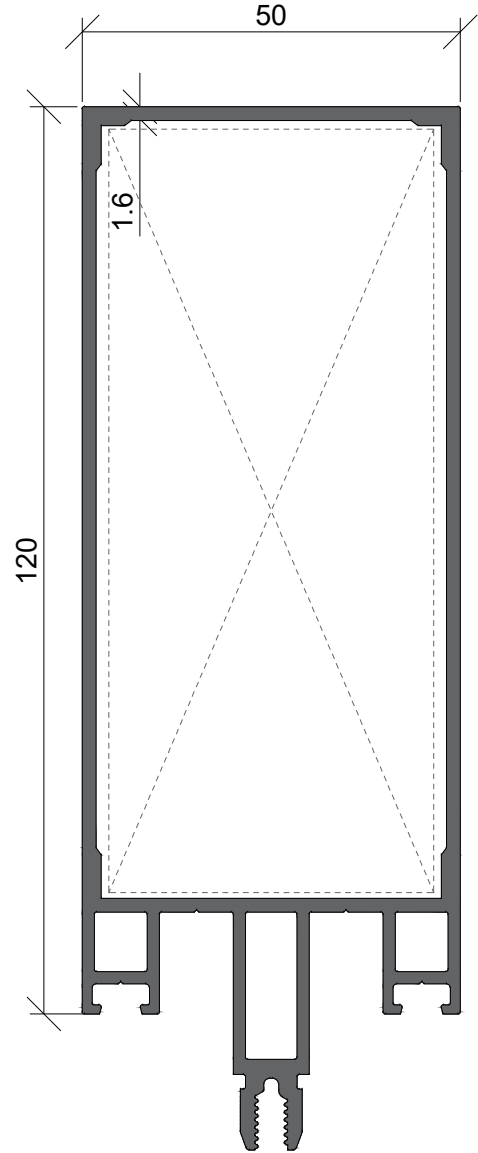
|                       |                       |
|-----------------------|-----------------------|
| Kod                   | FR50-80M              |
| Ağırlık               | 1.688 Kg/m            |
| Jx                    | 57.56 cm <sup>4</sup> |
| Jy                    | 20.95 cm <sup>4</sup> |
| Et Kalınlık           | 1.6 mm                |
| Dilatasyon Bağlantısı |                       |
| 43DL62                |                       |





C-1604

|                       |                       |
|-----------------------|-----------------------|
| Kod                   | FR50-100M             |
| Ağırlık               | 1.851 Kg/m            |
| Jx                    | 97.03 cm <sup>4</sup> |
| Jy                    | 24.7 cm <sup>4</sup>  |
| Et Kalınlık           | 1.6 mm                |
| Dilatasyon Bağlantısı |                       |
| 43DL82                |                       |



C-1605

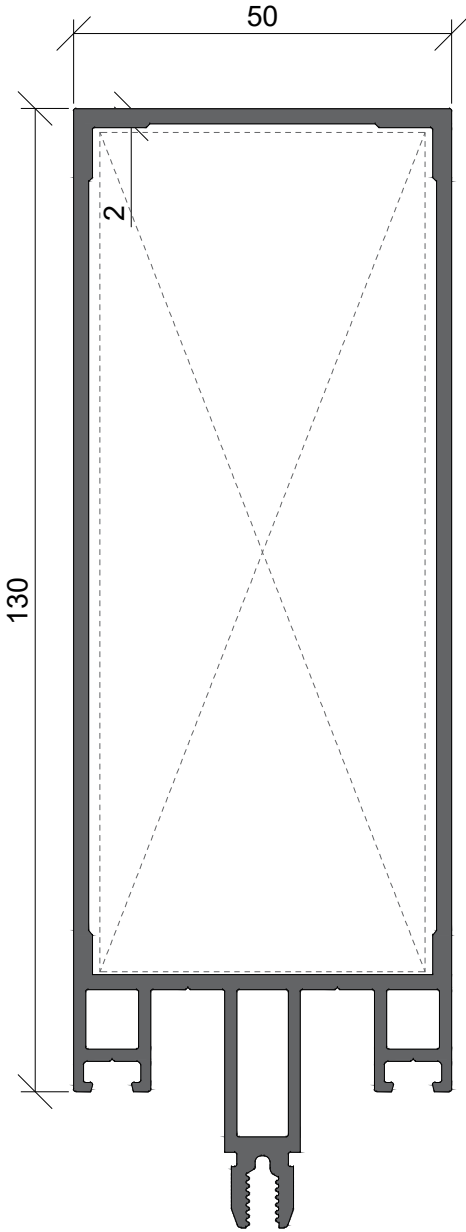
|                       |                        |
|-----------------------|------------------------|
| Kod                   | FR50-120M              |
| Ağırlık               | 2.191 Kg/m             |
| Jx                    | 162.28 cm <sup>4</sup> |
| Jy                    | 31.06 cm <sup>4</sup>  |
| Et Kalınlık           | 1.6 mm                 |
| Dilatasyon Bağlantısı |                        |
| 43DL101               |                        |



**Almin®**  
Alüminyum Profil

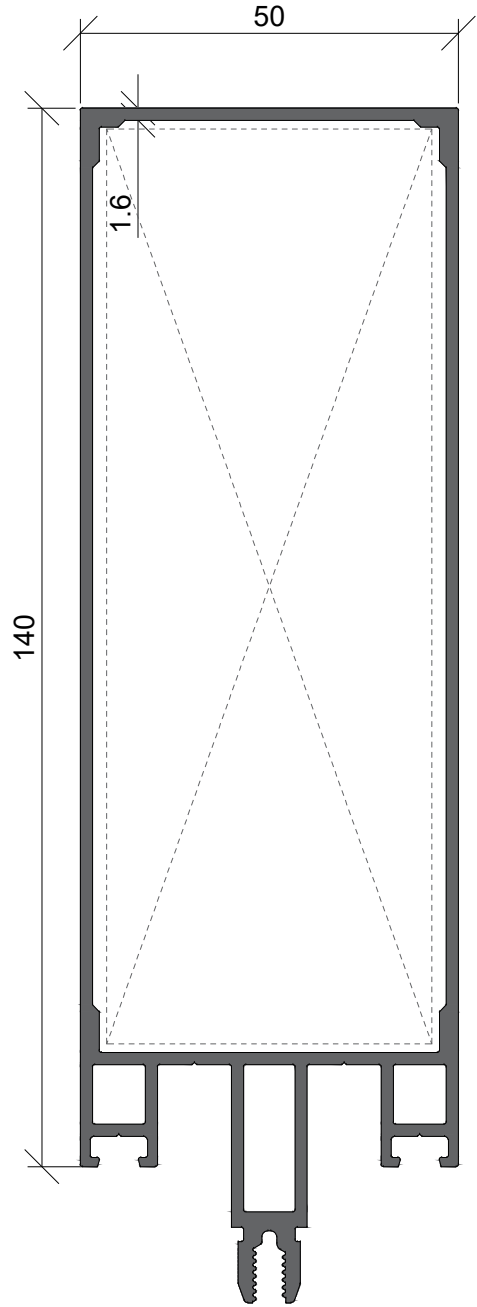
TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



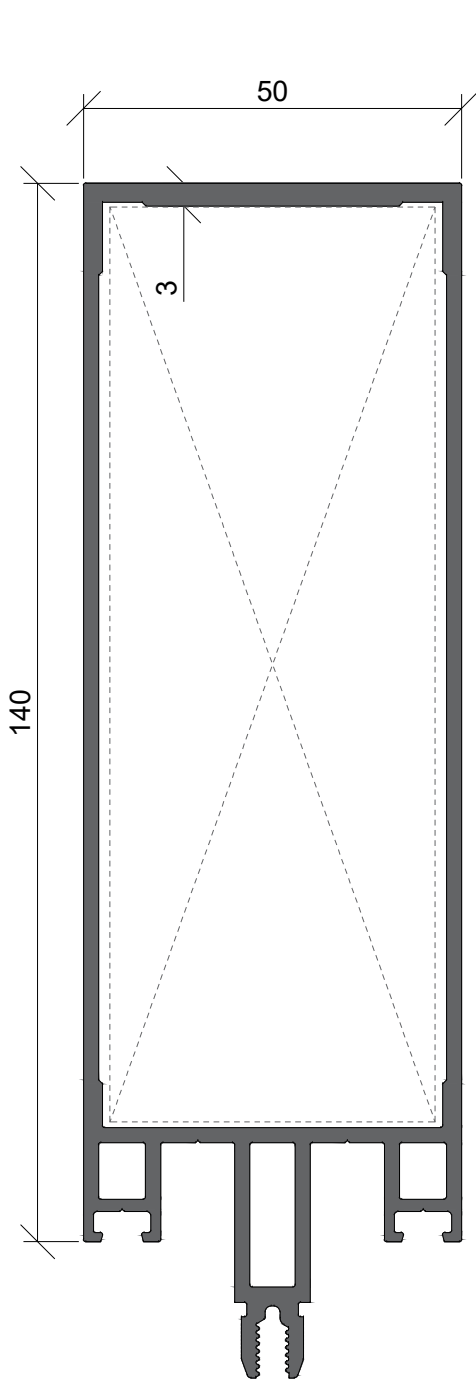
C-2001

|                       |                       |
|-----------------------|-----------------------|
| Kod                   | FR50-130M             |
| Ağırlık               | 2.456 Kg/m            |
| Jx                    | 209.8 cm <sup>4</sup> |
| Jy                    | 35.7 cm <sup>4</sup>  |
| Et Kalınlık           | 2.0 mm                |
| Dilatasyon Bağlantısı |                       |
| 43DL111               |                       |



C-1606

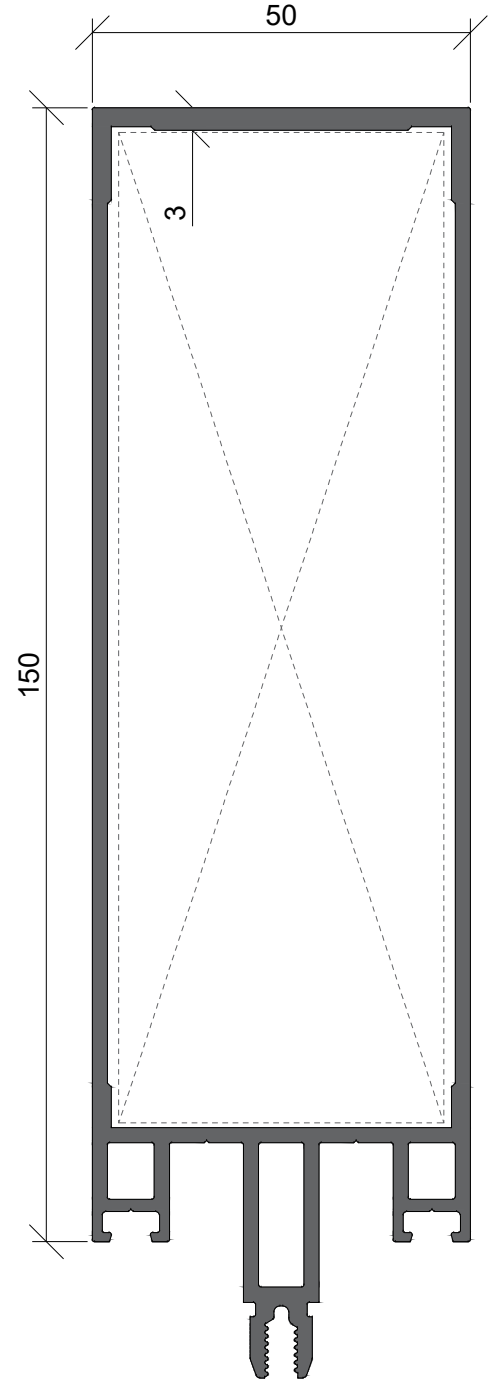
|                       |                       |
|-----------------------|-----------------------|
| Kod                   | FR50-140M-1.6         |
| Ağırlık               | 2.216 Kg/m            |
| Jx                    | 221.0 cm <sup>4</sup> |
| Jy                    | 32.46 cm <sup>4</sup> |
| Et Kalınlık           | 1.6 mm                |
| Dilatasyon Bağlantısı |                       |
| 43DL121               |                       |



C-2002

|             |                        |
|-------------|------------------------|
| Kod         | FR50-140M-2.0          |
| Ağırlık     | 2.727 Kg/m             |
| Jx          | 279.87 cm <sup>4</sup> |
| Jy          | 38.92 cm <sup>4</sup>  |
| Et Kalınlık | 2.0 mm                 |

|                       |
|-----------------------|
| Dilatasyon Bağlantısı |
| 43DL 121              |



C-2003

|             |                        |
|-------------|------------------------|
| Kod         | FR50-150M              |
| Ağırlık     | 2.835 Kg/m             |
| Jx          | 330.55 cm <sup>4</sup> |
| Jy          | 41.24 cm <sup>4</sup>  |
| Et Kalınlık | 2.0 mm                 |

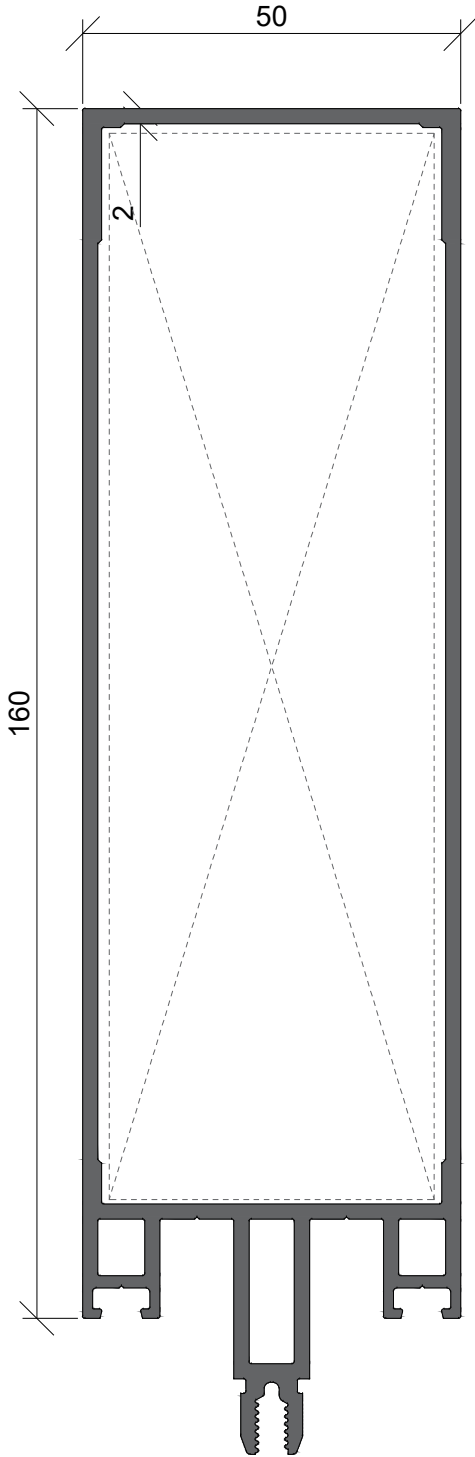
|                       |
|-----------------------|
| Dilatasyon Bağlantısı |
| 43DL 131              |



**Almin®**  
Alüminyum Profil

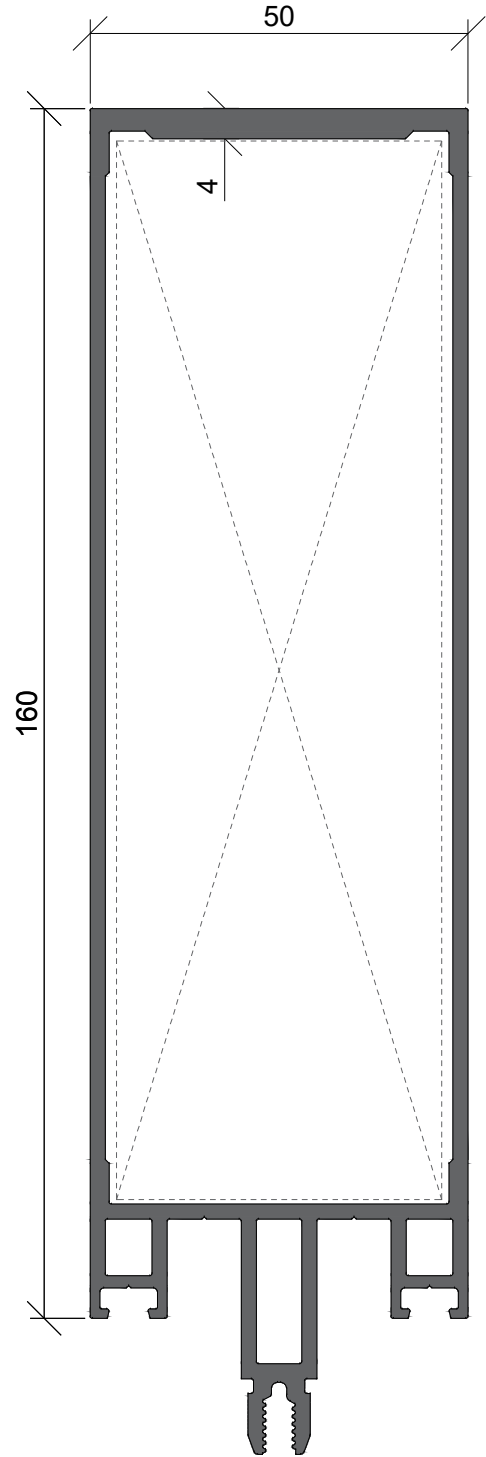
TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



C-2004

|                       |                       |
|-----------------------|-----------------------|
| Kod                   | FR50-160M-2.0         |
| Ağırlık               | 2.859 Kg/m            |
| Jx                    | 359.7 cm <sup>4</sup> |
| Jy                    | 43.39 cm <sup>4</sup> |
| Et Kalınlık           | 2.0 mm                |
| Dilatasyon Bağlantısı |                       |
| 43DL141               |                       |



C-2005

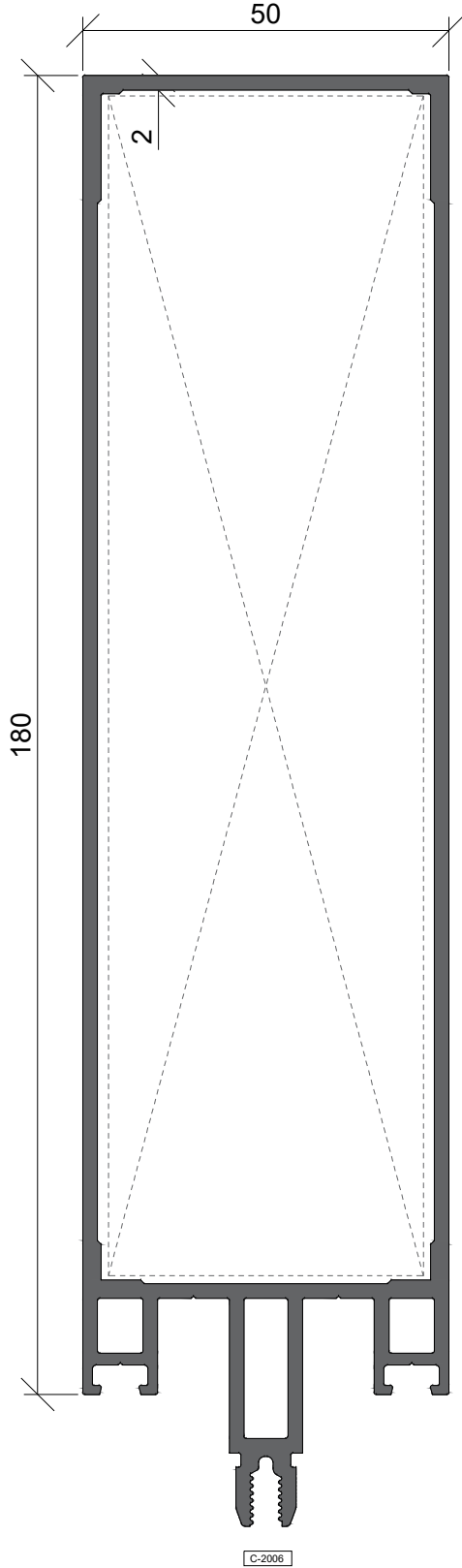
|                       |                        |
|-----------------------|------------------------|
| Kod                   | FR50-160M-4.0          |
| Ağırlık               | 3.042 Kg/m             |
| Jx                    | 413.57 cm <sup>4</sup> |
| Jy                    | 43.91 cm <sup>4</sup>  |
| Et Kalınlık           | 2.0 mm                 |
| Dilatasyon Bağlantısı |                        |
| 43DL140               |                        |



**Almin®**  
Alüminyum Profil

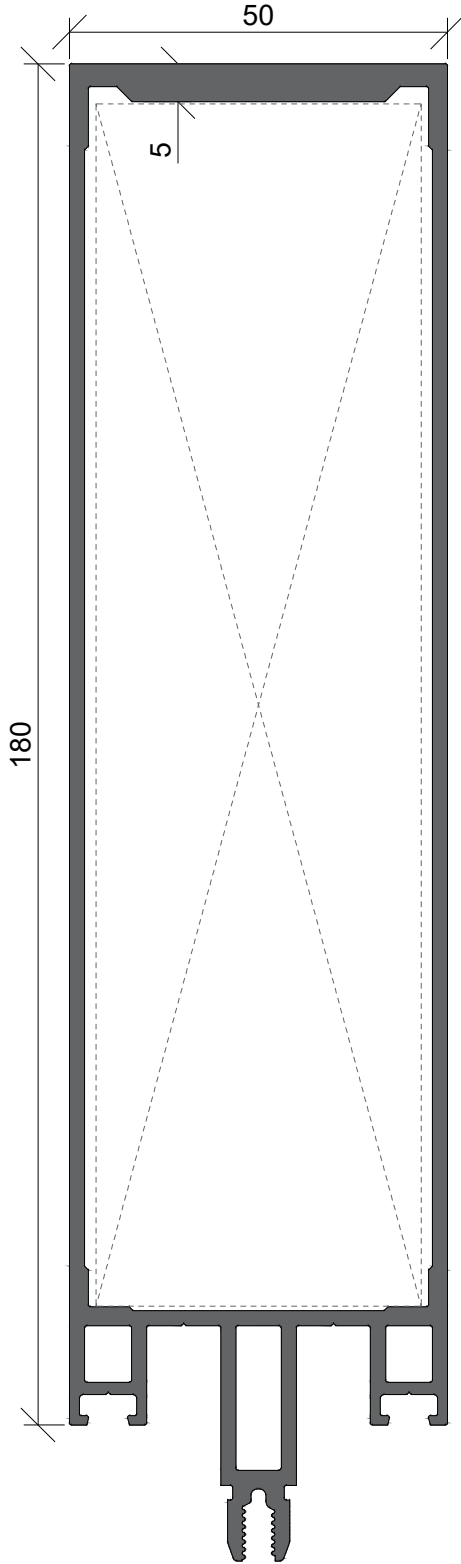
TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



|                       |                        |
|-----------------------|------------------------|
| Kod                   | FR50-180M-2.0          |
| Ağırlık               | 3.09 Kg/m              |
| Jx                    | 482.67 cm <sup>4</sup> |
| Jy                    | 48.2 cm <sup>4</sup>   |
| Et Kalınlık           | 2.0 mm                 |
| Dilatasyon Bağlantısı |                        |
| 43DL161               |                        |





C-2007

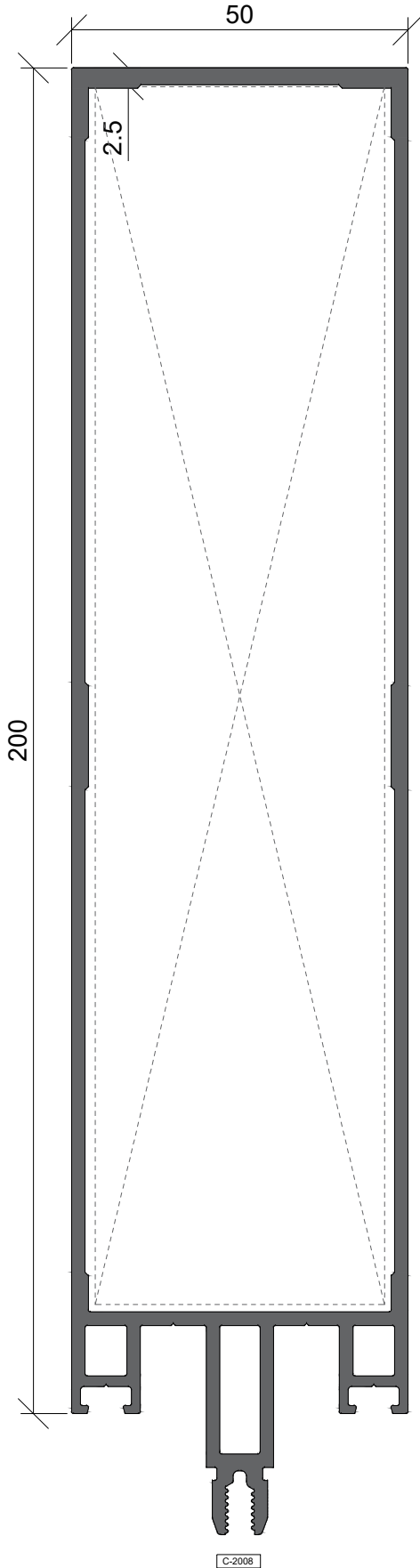
|                       |                       |
|-----------------------|-----------------------|
| Kod                   | FR50-180M-5.0         |
| Ağırlık               | 3.109 Kg/m            |
| Jx                    | 584.2 cm <sup>4</sup> |
| Jy                    | 49.27 cm <sup>4</sup> |
| Et Kalınlık           | 2.0 mm                |
| Dilatasyon Bağlantısı |                       |
| 43DL159               |                       |



**Almin®**  
Alüminyum Profil

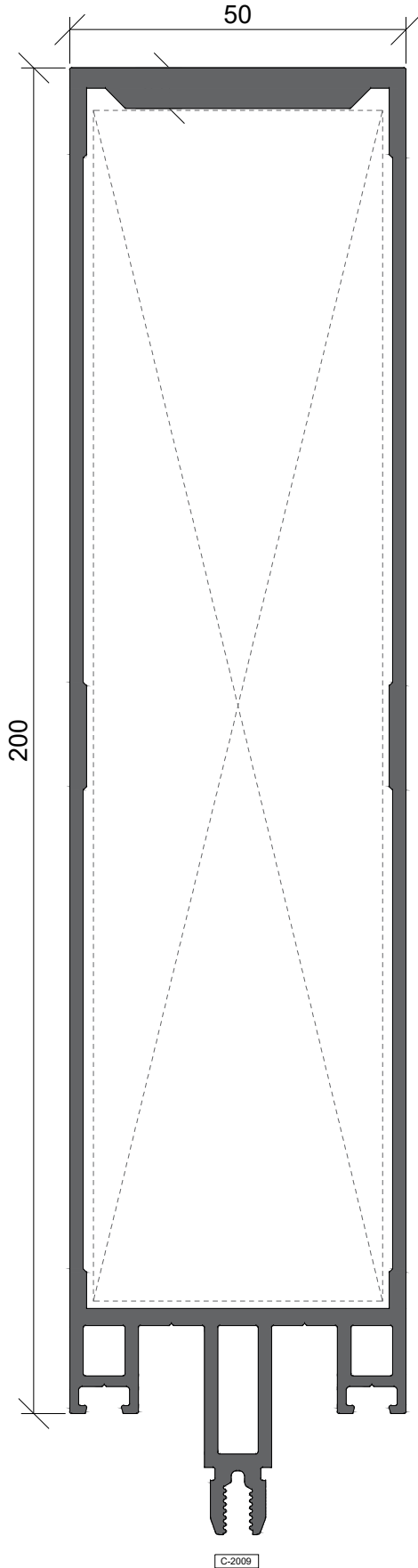
TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



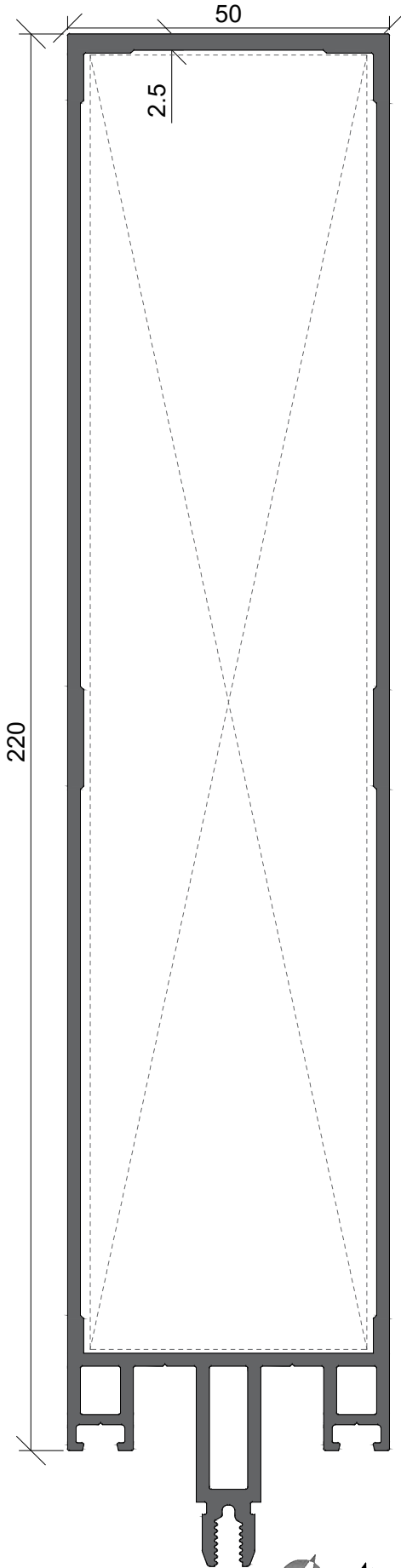
|                       |                       |
|-----------------------|-----------------------|
| Kod                   | FR50-200M-2.5         |
| Ağırlık               | 3.389 Kg/m            |
| Jx                    | 652.0 cm <sup>4</sup> |
| Jy                    | 53.57 cm <sup>4</sup> |
| Et Kalınlık           | 2.0 mm                |
| Dilatasyon Bağlantısı |                       |
| 43DL181               |                       |





|                       |                       |
|-----------------------|-----------------------|
| Kod                   | FR50-200M-6.0         |
| Ağırlık               | 3.795 Kg/m            |
| Jx                    | 802.9 cm <sup>4</sup> |
| Jy                    | 55.44 cm <sup>4</sup> |
| Et Kalınlık           | 2.0 mm                |
| Dilatasyon Bağlantısı |                       |
| 43DL177               |                       |





|                       |                        |
|-----------------------|------------------------|
| Kod                   | FR50-220M-2.5          |
| Ağırlık               | 3.606 Kg/m             |
| Jx                    | 825.23 cm <sup>4</sup> |
| Jy                    | 58.18 cm <sup>4</sup>  |
| Et Kalınlık           | 2.0 mm                 |
| Dilatasyon Bağlantısı |                        |
| 43DL201               |                        |

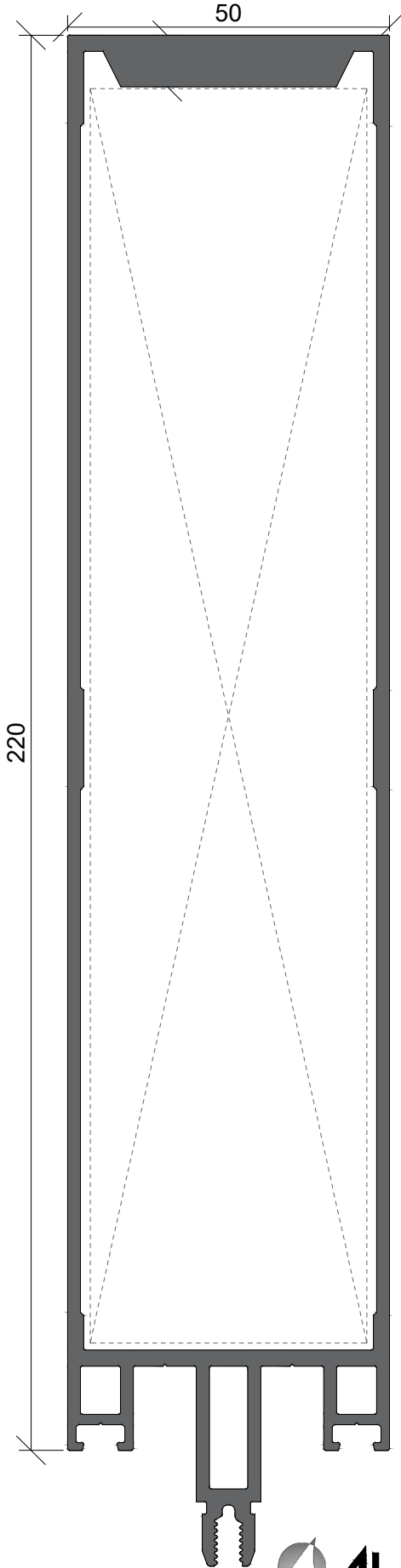
C-2010



**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Alüminium.



|                       |                         |
|-----------------------|-------------------------|
| Kod                   | FR50-220M-8.0           |
| Ağırlık               | 4.197 Kg/m              |
| Jx                    | 1083.47 cm <sup>4</sup> |
| Jy                    | 60.69 cm <sup>4</sup>   |
| Et Kalınlık           | 2.0 mm                  |
| Dilatasyon Bağlantısı |                         |
| 43DL195               |                         |

C-2011



**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



**ROUTE**  
SYSTEMS

**FR50**

FACADE SYSTEMS

## **KAYIT PROFİLLERİ/**

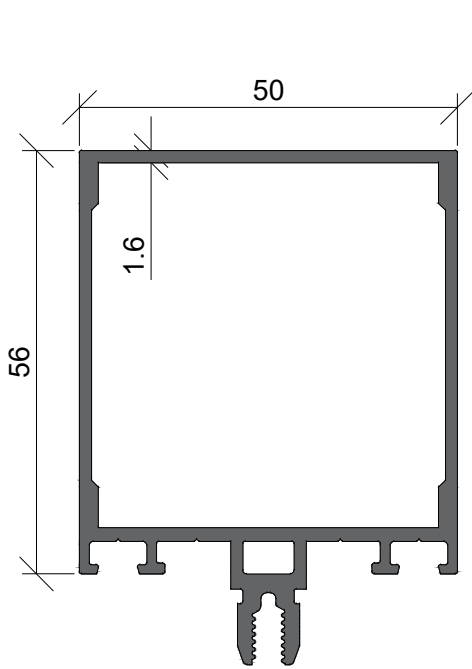
*TRANSOM PROFILES*



**Almin®**  
Alüminyum Profil

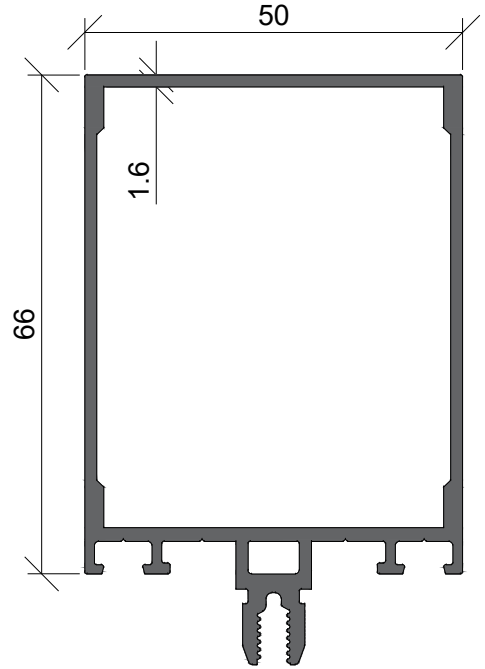
*TESCİLLİ MARKASIDIR.*

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



C-1607

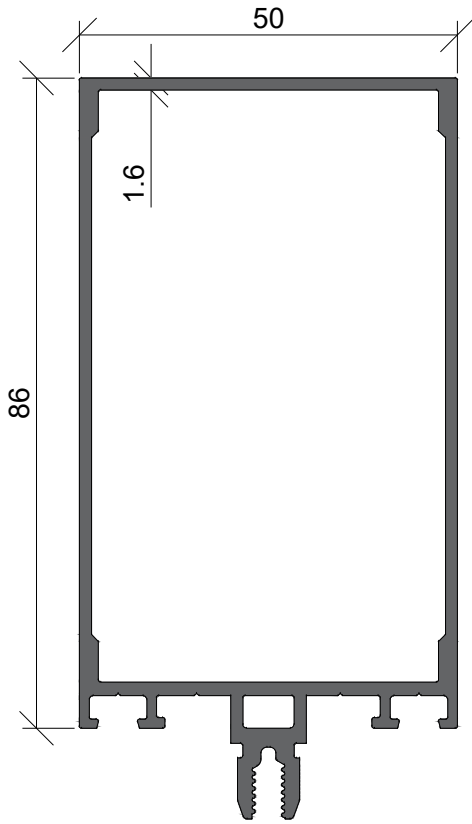
|                        |                       |
|------------------------|-----------------------|
| Kod                    | FR50-56T              |
| Ağırlık                | 1.230 Kg/m            |
| Jx                     | 22.98 cm <sup>4</sup> |
| Jy                     | 14.98 cm <sup>4</sup> |
| Et Kalınlık            | 1.6 mm                |
| Yatay Kayıt Contası    |                       |
| A02.2011               |                       |
| Yatay Kayıt Bağlantısı |                       |
| 40.6FR46               |                       |



C-1608

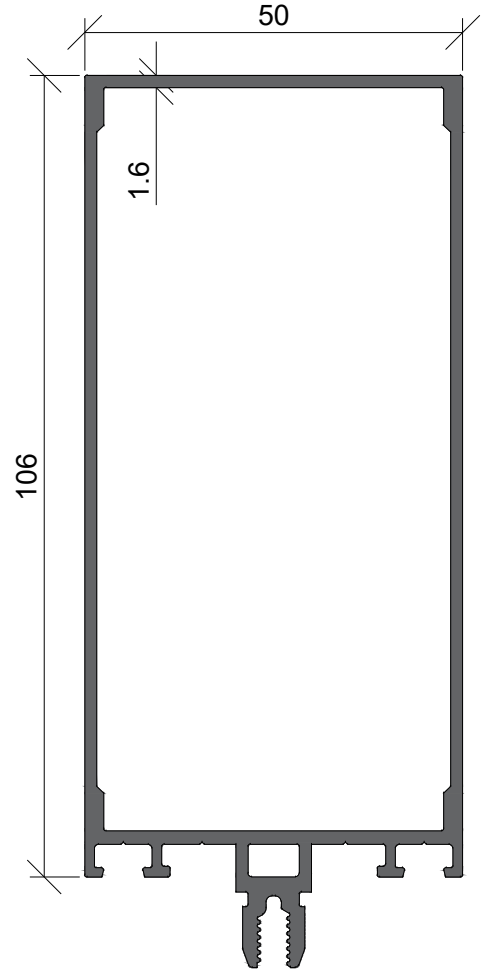
|                        |                       |
|------------------------|-----------------------|
| Kod                    | FR50-66T              |
| Ağırlık                | 1.317 Kg/m            |
| Jx                     | 33.47 cm <sup>4</sup> |
| Jy                     | 16.86 cm <sup>4</sup> |
| Et Kalınlık            | 1.6 mm                |
| Yatay Kayıt Contası    |                       |
| A02.2012               |                       |
| Yatay Kayıt Bağlantısı |                       |
| 40.6FR46               |                       |





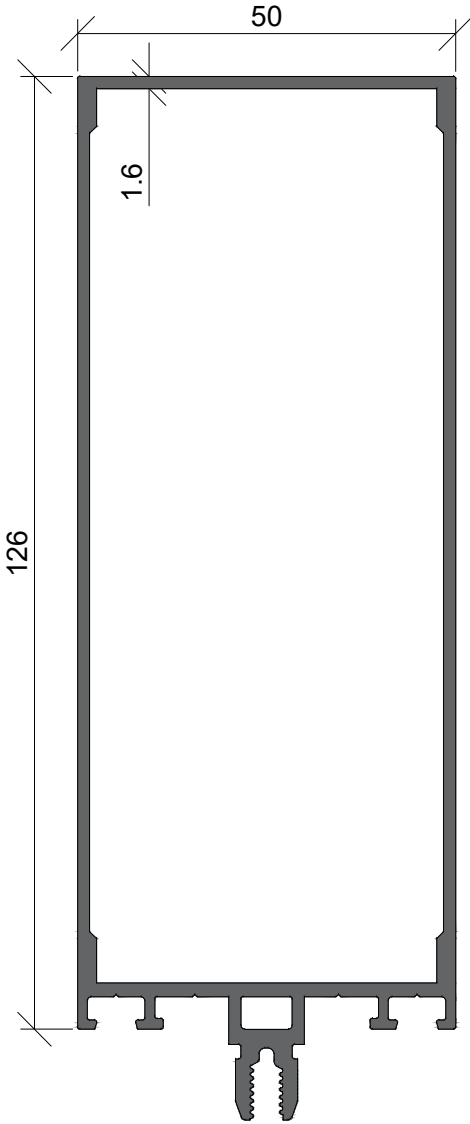
C-1609

|                        |                       |
|------------------------|-----------------------|
| Kod                    | FR50-86T              |
| Ağırlık                | 1.491 Kg/m            |
| Jx                     | 61.66 cm <sup>4</sup> |
| Jy                     | 20.61 cm <sup>4</sup> |
| Et Kalınlık            | 1.6 mm                |
| Yatay Kayıt Contası    |                       |
| A02.2013               |                       |
| Yatay Kayıt Bağlantısı |                       |
| 40.6FR76               |                       |



C-1610

|                        |                       |
|------------------------|-----------------------|
| Kod                    | FR50-106T             |
| Ağırlık                | 1.660 Kg/m            |
| Jx                     | 100.5 cm <sup>4</sup> |
| Jy                     | 24.28 cm <sup>4</sup> |
| Et Kalınlık            | 1.6 mm                |
| Yatay Kayıt Contası    |                       |
| A02.2014               |                       |
| Yatay Kayıt Bağlantısı |                       |
| 40.6FR96               |                       |



C-1611

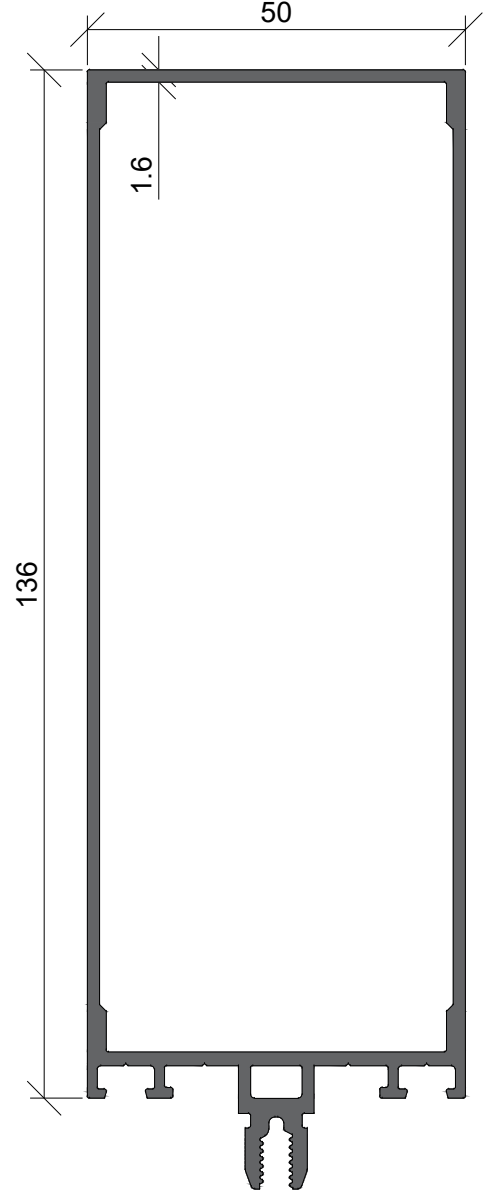
|             |                        |
|-------------|------------------------|
| Kod         | FR50-126T              |
| Ağırlık     | 1.838 Kg/m             |
| Jx          | 151.94 cm <sup>4</sup> |
| Jy          | 28.11 cm <sup>4</sup>  |
| Et Kalınlık | 1.6 mm                 |

Yatay Kayıt Contası

A02.2015

Yatay Kayıt Bağlantısı

40.6FR116



C-1612

|             |                       |
|-------------|-----------------------|
| Kod         | FR50-136T             |
| Ağırlık     | 1.924 Kg/m            |
| Jx          | 182.8 cm <sup>4</sup> |
| Jy          | 29.98 cm <sup>4</sup> |
| Et Kalınlık | 1.6 mm                |

Yatay Kayıt Contası

A02.2016

Yatay Kayıt Bağlantısı

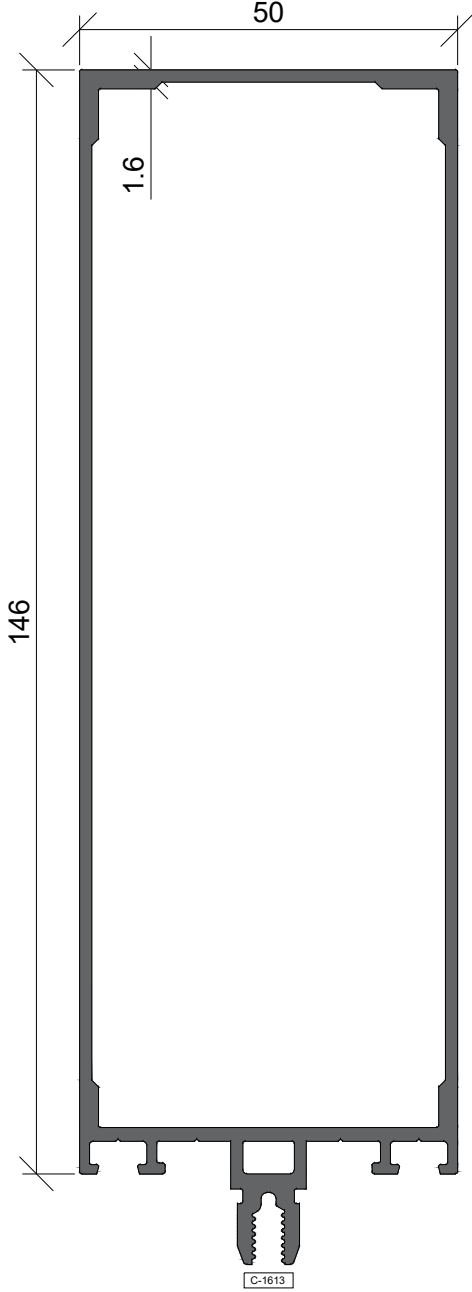
40.6FR126



**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



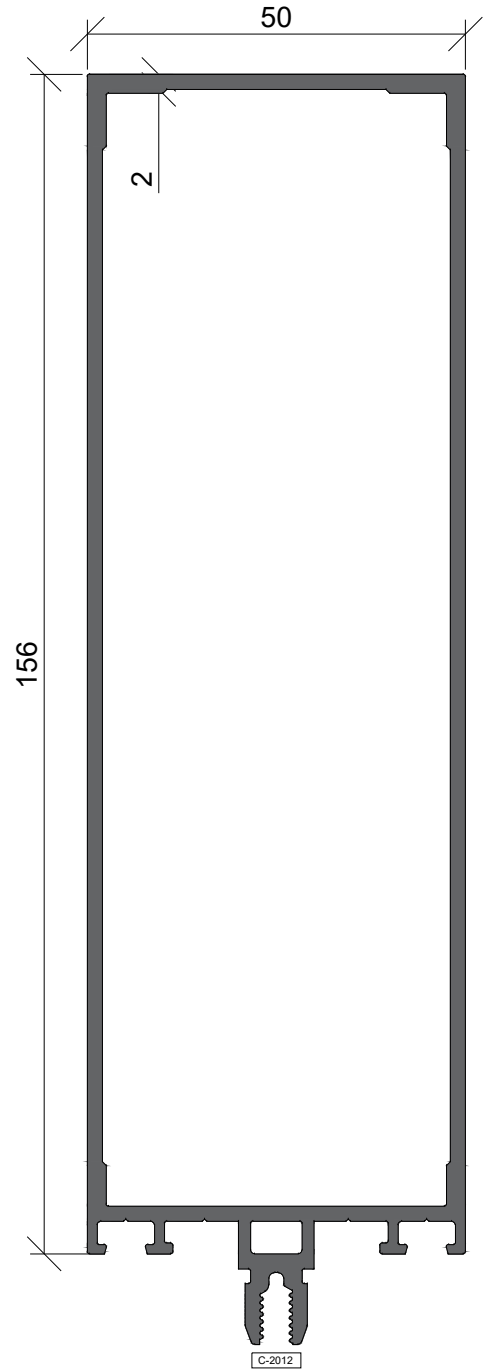
|             |                        |
|-------------|------------------------|
| Kod         | FR50-146T              |
| Ağırlık     | 2.060 Kg/m             |
| Jx          | 228.16 cm <sup>4</sup> |
| Jy          | 32.55 cm <sup>4</sup>  |
| Et Kalınlık | 1.6 mm                 |

Yatay Kayıt Contası

A02.2017

Yatay Kayıt Bağlantısı

40.6FR136



|             |                        |
|-------------|------------------------|
| Kod         | FR50-156T              |
| Ağırlık     | 2.494 Kg/m             |
| Jx          | 296.49 cm <sup>4</sup> |
| Jy          | 40.46 cm <sup>4</sup>  |
| Et Kalınlık | 2.0 mm                 |

Yatay Kayıt Contası

A02.2018

Yatay Kayıt Bağlantısı

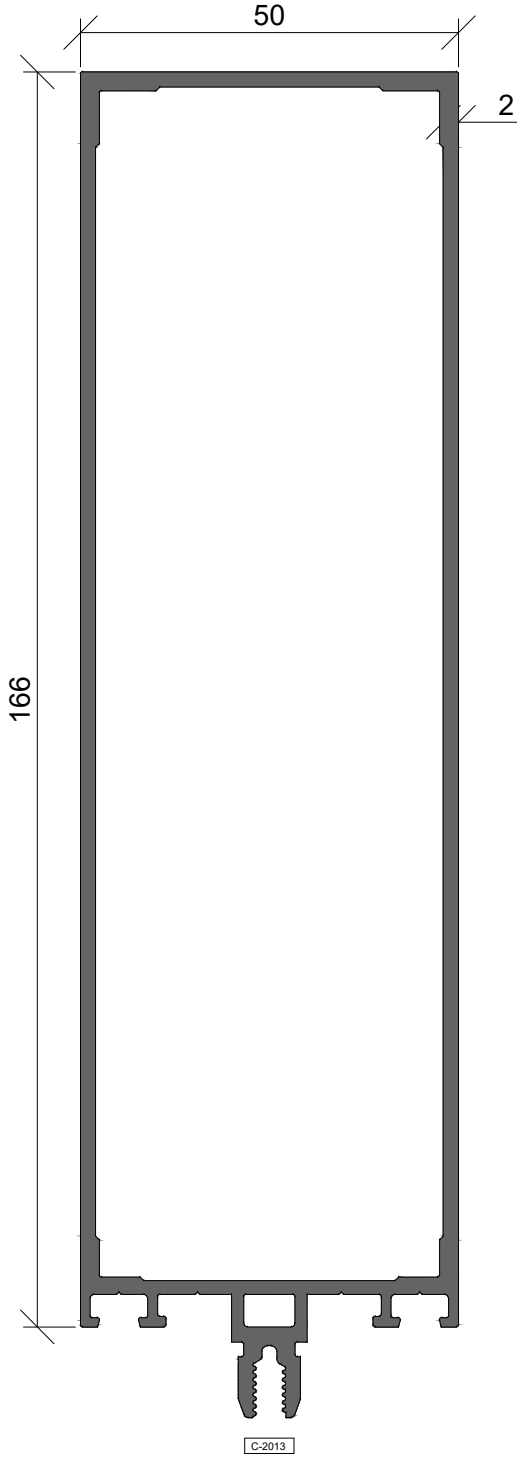
40.6FR145.3



**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

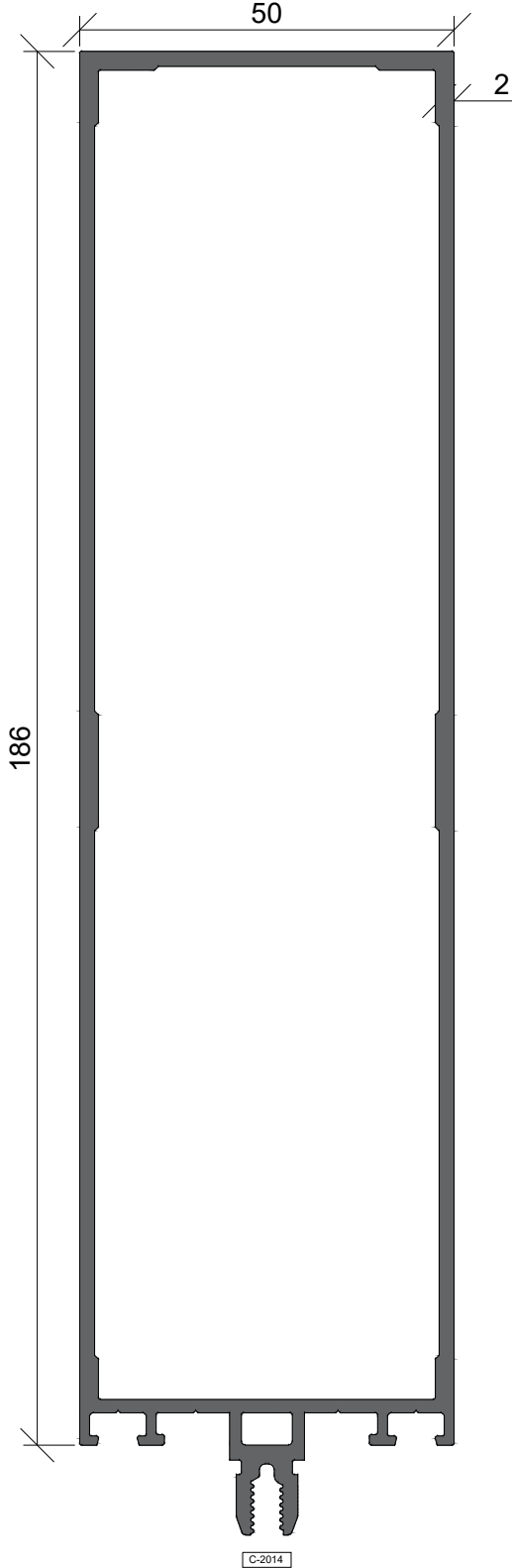
Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



|             |                        |
|-------------|------------------------|
| Kod         | FR50-166T              |
| Ağırlık     | 2.593 Kg/m             |
| Jx          | 343.74 cm <sup>4</sup> |
| Jy          | 42.82 cm <sup>4</sup>  |
| Et Kalınlık | 2.0 mm                 |

|                     |
|---------------------|
| Yatay Kayıt Contası |
| A02.2019            |

|                        |
|------------------------|
| Yatay Kayıt Bağlantısı |
| 40.6FR155.3            |



|             |                        |
|-------------|------------------------|
| Kod         | FR50-186T              |
| Ağırlık     | 2.836 Kg/m             |
| Jx          | 452.24 cm <sup>4</sup> |
| Jy          | 48.02 cm <sup>4</sup>  |
| Et Kalınlık | 1.6 mm                 |

Yatay Kayıt Contası

A02.2020

Yatay Kayıt Bağlantısı

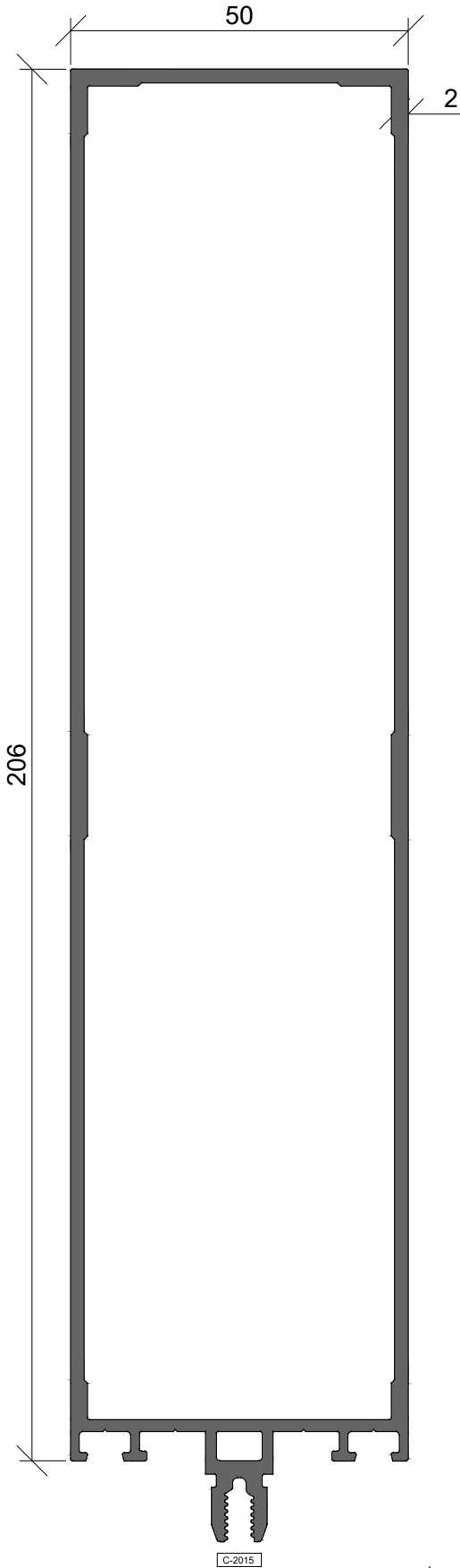
40.6FR175.3



**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



|             |                        |
|-------------|------------------------|
| Kod         | FR50-206T              |
| Ağırlık     | 3.053 Kg/m             |
| Jx          | 584.08 cm <sup>4</sup> |
| Jy          | 52.63 cm <sup>4</sup>  |
| Et Kalınlık | 2.0 mm                 |

Yatay Kayıt Contası

A02.2021

Yatay Kayıt Bağlantısı

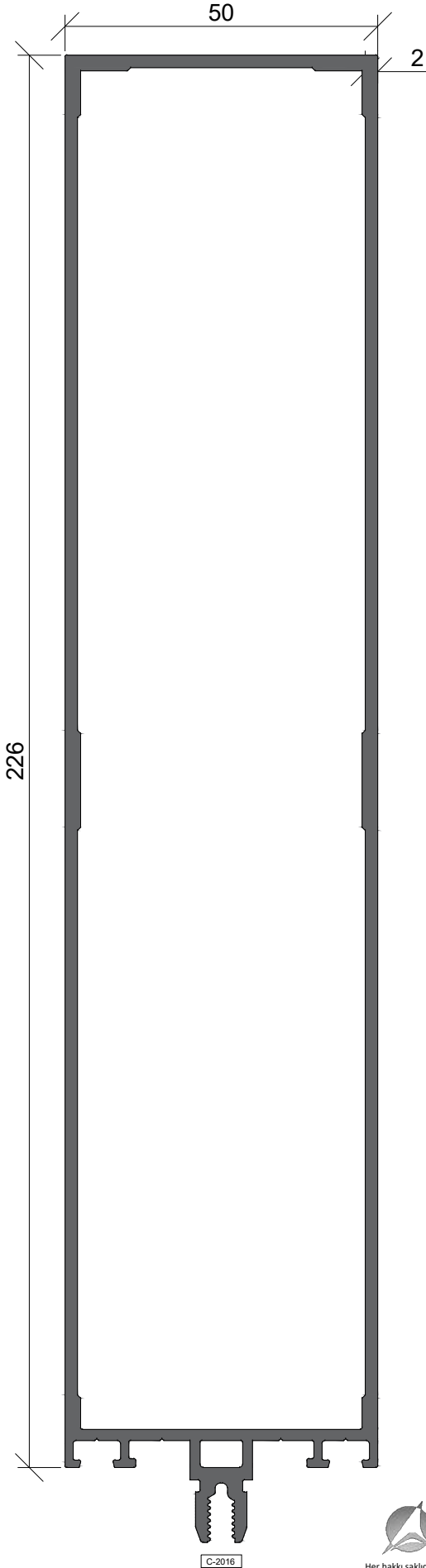
40.6FR195.3



**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Alüminium.



|             |                        |
|-------------|------------------------|
| Kod         | FR50-226T              |
| Ağırlık     | 3.269 Kg/m             |
| Jx          | 737.74 cm <sup>4</sup> |
| Jy          | 57.22 cm <sup>4</sup>  |
| Et Kalınlık | 2.0 mm                 |

Yatay Kayıt Contası

A02.2022

Yatay Kayıt Bağlantısı

40.6FR215.3

C-2016



**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Alüminyum.



**ROUTE**  
SYSTEMS

**FR50**

FACADE SYSTEMS

## **YARDIMCI PROFİLLER/**

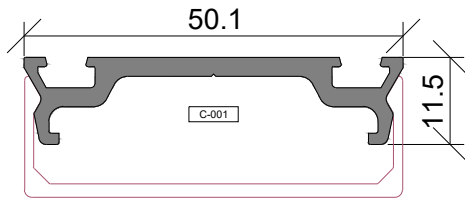
*AUXILIARY PROFILES*



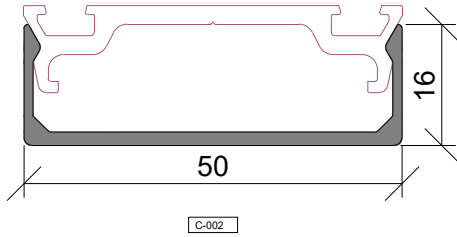
**Almin®**  
Alüminyum Profil

*TESCİLLİ MARKASIDIR.*

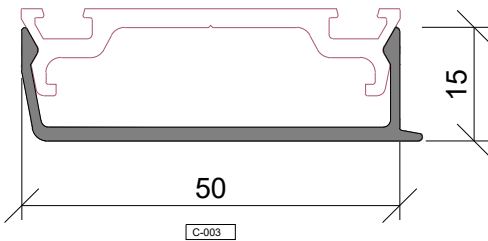
Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



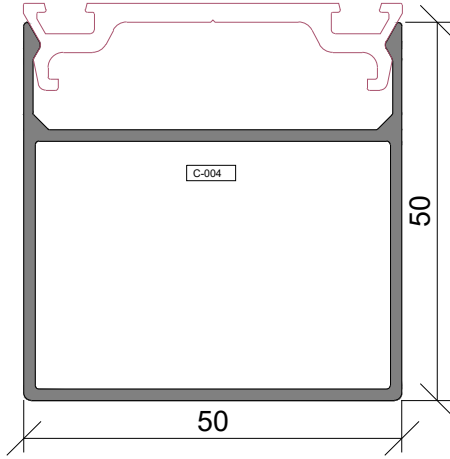
|         |            |
|---------|------------|
| Kod     | FR50-001   |
| Ağırlık | 0,463 Kg/m |



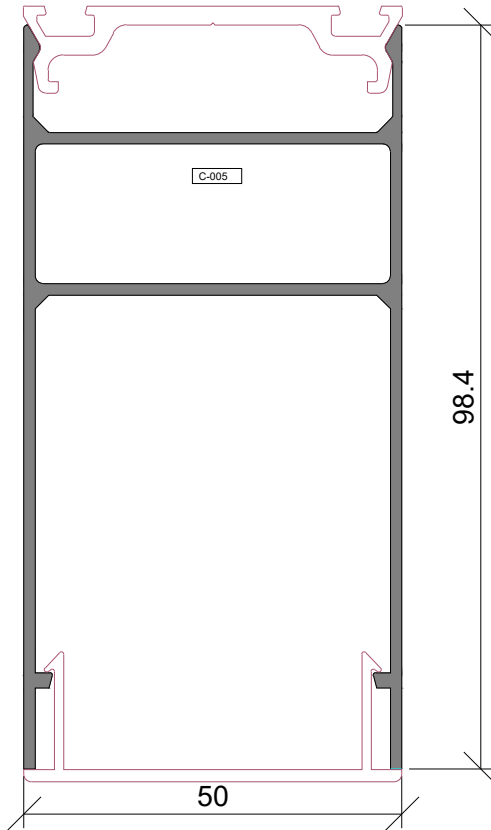
|         |            |
|---------|------------|
| Kod     | FR50-002   |
| Ağırlık | 0,355 Kg/m |



|         |            |
|---------|------------|
| Kod     | FR50-003   |
| Ağırlık | 0,341 Kg/m |

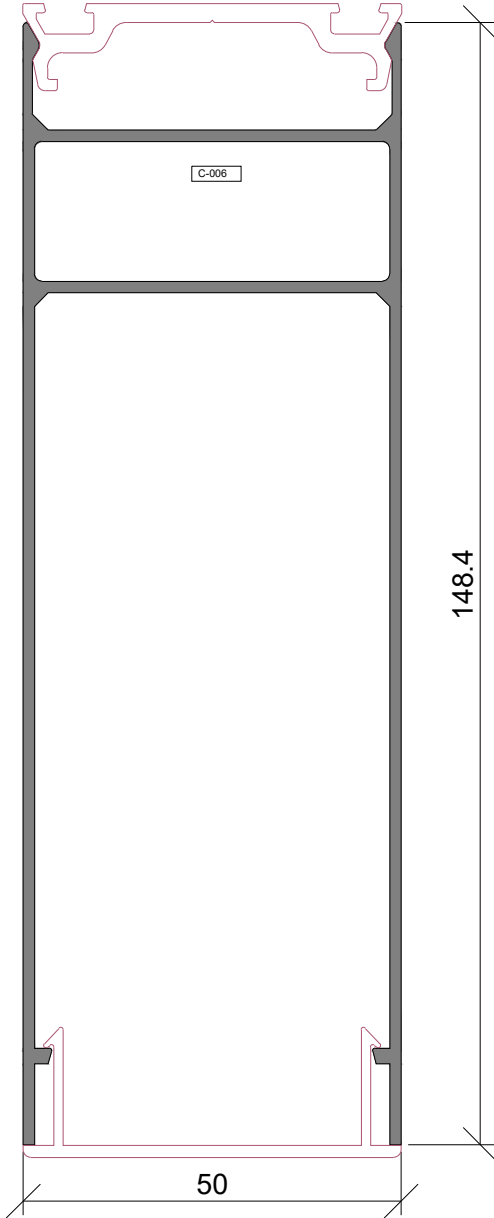


|         |           |
|---------|-----------|
| Kod     | FR50-004  |
| Ağırlık | 0.78 Kg/m |

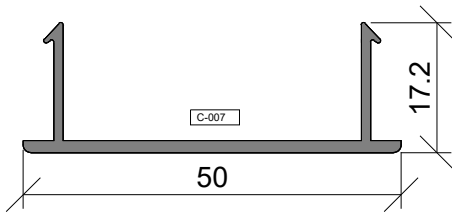


|         |            |
|---------|------------|
| Kod     | FR50-005   |
| Ağırlık | 1.214 Kg/m |



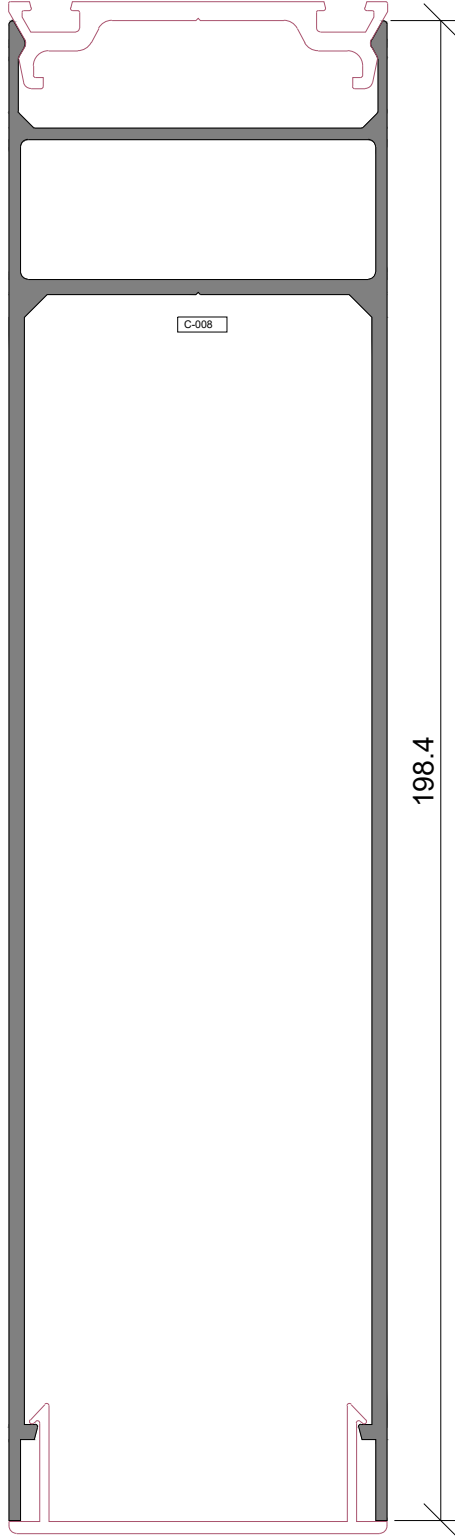


|         |           |
|---------|-----------|
| Kod     | FR50-006  |
| Ağırlık | 1,62 Kg/m |



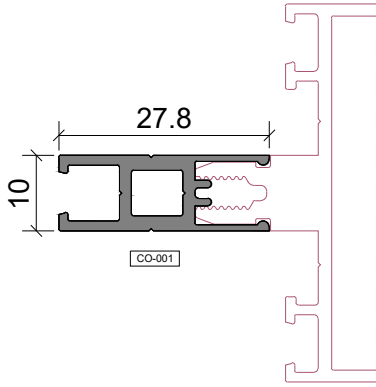
|         |            |
|---------|------------|
| Kod     | FR50-007   |
| Ağırlık | 0,321 Kg/m |



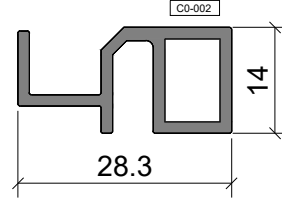


|         |            |
|---------|------------|
| Kod     | FR50-008   |
| Ağırlık | 2,509 Kg/m |

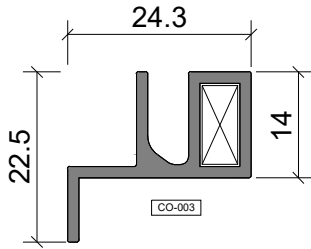




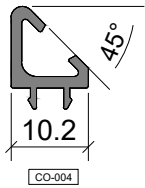
|         |            |
|---------|------------|
| Kod     | FR-001     |
| Ağırlık | 0,280 Kg/m |



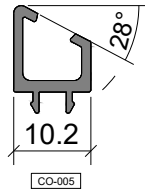
|         |            |
|---------|------------|
| Kod     | FR-002     |
| Ağırlık | 0,335 Kg/m |



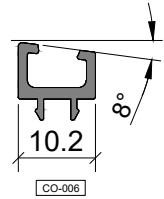
|         |            |
|---------|------------|
| Kod     | FR-003     |
| Ağırlık | 0,321 Kg/m |



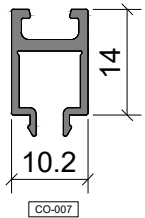
|         |            |
|---------|------------|
| Kod     | FR-004     |
| Ağırlık | 0,113 Kg/m |



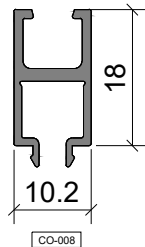
|         |            |
|---------|------------|
| Kod     | FR-005     |
| Ağırlık | 0,115 Kg/m |



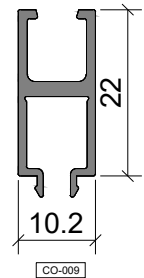
|         |            |
|---------|------------|
| Kod     | FR-006     |
| Ağırlık | 0,097 Kg/m |



|         |            |
|---------|------------|
| Kod     | FR-007     |
| Ağırlık | 0,145 Kg/m |

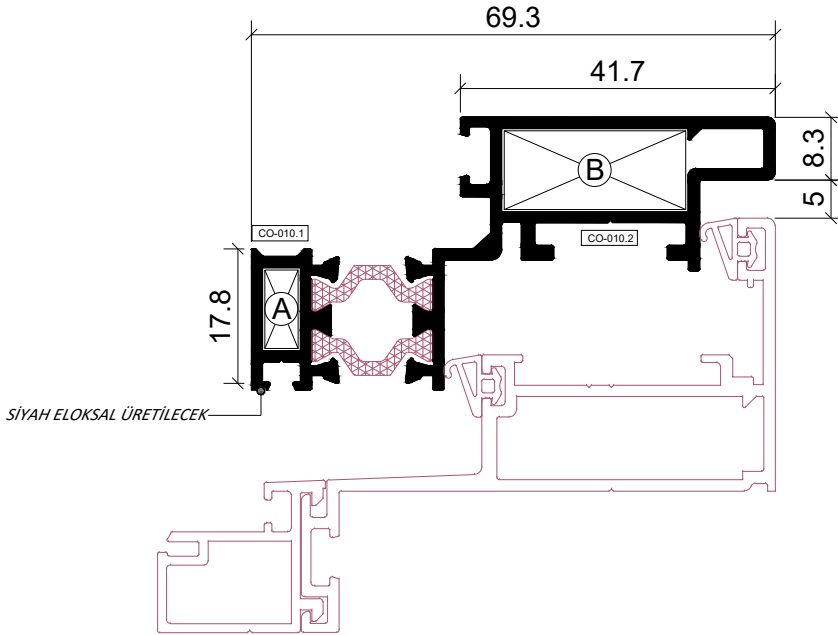


|         |            |
|---------|------------|
| Kod     | FR-008     |
| Ağırlık | 0,176 Kg/m |



|         |            |
|---------|------------|
| Kod     | FR-009     |
| Ağırlık | 0,211 Kg/m |

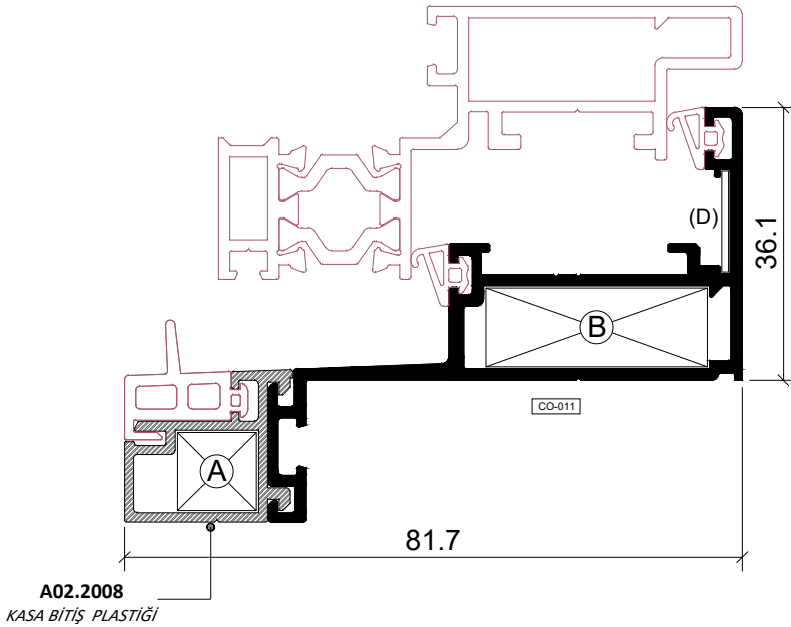




### Kaset Profili

|             |                       |
|-------------|-----------------------|
| Kod         | FR-010                |
| Ağırlık     | 1.072 Kg/m            |
| Jx          | 17.39 cm <sup>4</sup> |
| Jy          | 16.44 cm <sup>4</sup> |
| Et Kalınlık | 1.5 mm                |

|              |                                                                                            |              |
|--------------|--------------------------------------------------------------------------------------------|--------------|
| Profil Kodu  | FR-025  |              |
| Parça Kodu   | (A) 107FR45                                                                                | (B) 107FR240 |
| Kesim Ölçüsü | 4,5 mm                                                                                     | 24 mm        |

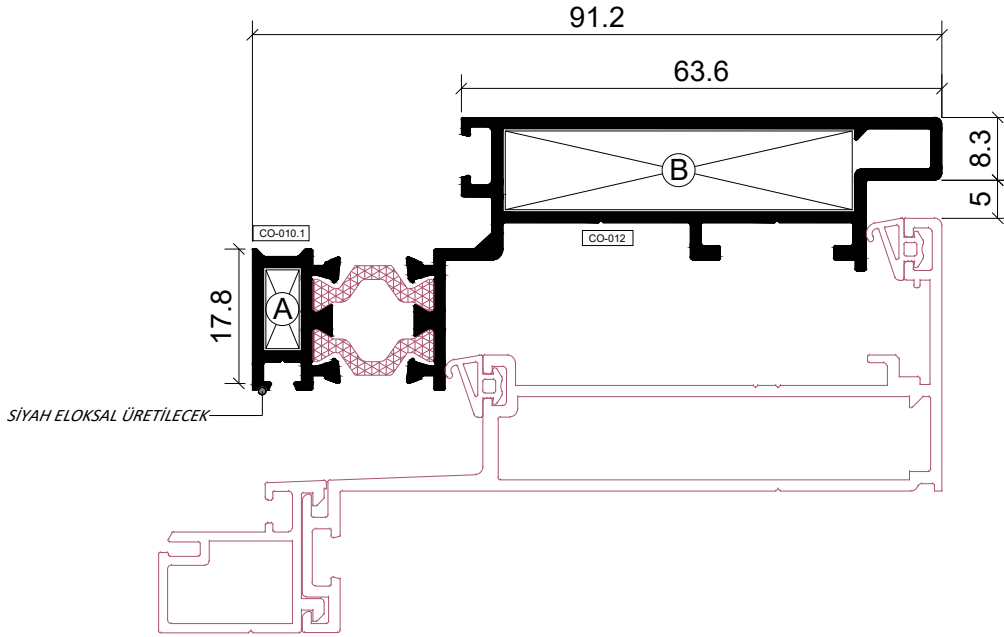


### Kasa Profili

|             |                       |
|-------------|-----------------------|
| Kod         | FR-011                |
| Ağırlık     | 1.019 Kg/m            |
| Jx          | 17.04 cm <sup>4</sup> |
| Jy          | 18.13 cm <sup>4</sup> |
| Et Kalınlık | 1.5 mm                |

|              |              |                                                                                       |
|--------------|--------------|---------------------------------------------------------------------------------------|
| Profil Kodu  | FR-025       |  |
| Parça Kodu   | (A) 107FR105 | (B) 107FR295                                                                          |
| Kesim Ölçüsü | 10,5 mm      | 29,5 mm                                                                               |

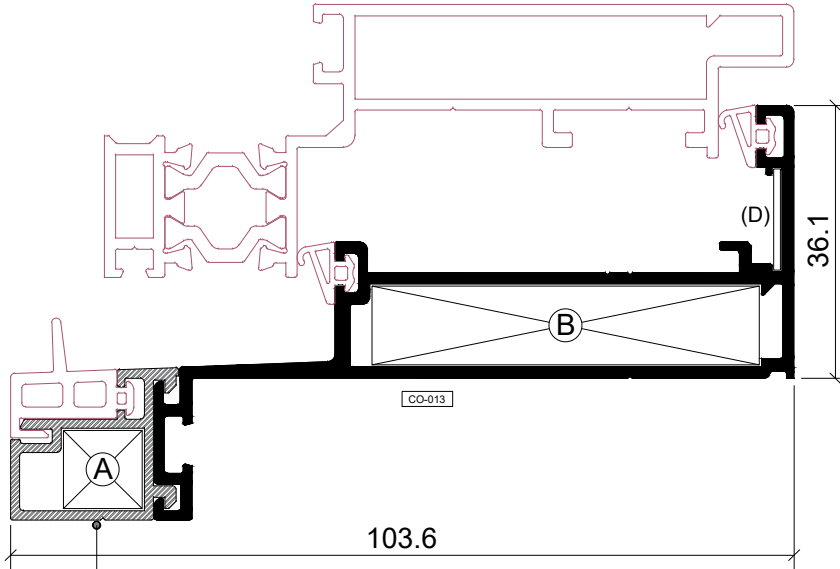




Kaset Profili

|             |                       |
|-------------|-----------------------|
| Kod         | FR-012                |
| Ağırlık     | 1.243 Kg/m            |
| Jx          | 34.98 cm <sup>4</sup> |
| Jy          | 24.17 cm <sup>4</sup> |
| Et Kalınlık | 1.5 mm                |

|              |             |              |
|--------------|-------------|--------------|
| Profil Kodu  | FR-025      |              |
| Parça Kodu   | (A) 107FR45 | (B) 107FR460 |
| Kesim Ölçüsü | 4,5 mm      | 46 mm        |



Kasa Profili

|             |                      |
|-------------|----------------------|
| Kod         | FR-013               |
| Ağırlık     | 1.024 Kg/m           |
| Jx          | 33.7 cm <sup>4</sup> |
| Jy          | 24.6 cm <sup>4</sup> |
| Et Kalınlık | 1.6 mm               |

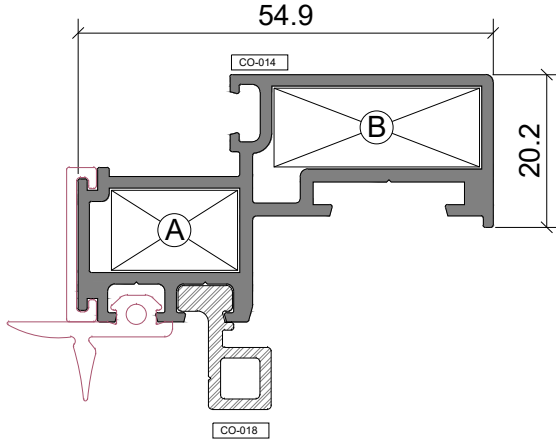
|              |              |              |
|--------------|--------------|--------------|
| Profil Kodu  | FR-025       |              |
| Parça Kodu   | (A) 107FR105 | (B) 107FR515 |
| Kesim Ölçüsü | 10,5 mm      | 51,5 mm      |

A02.2008  
KASA BİTİŞ PLASTİĞİ

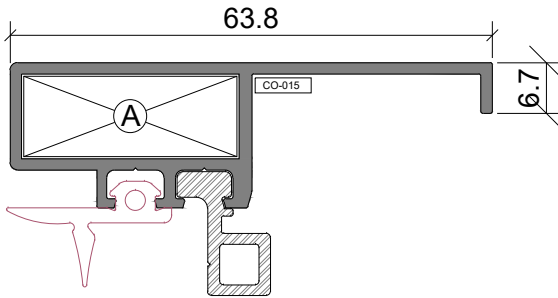


**Almin®** TESCİLLİ MARKASIDIR.  
Alüminyum Profil

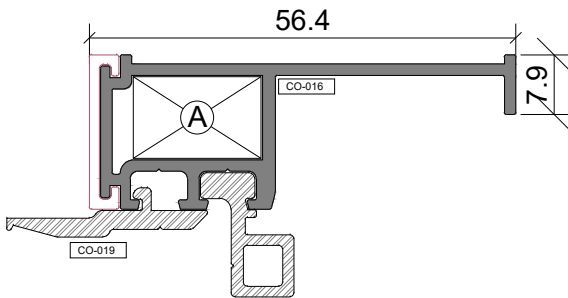
Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



|              |                           |  |
|--------------|---------------------------|--|
| Profil Kodu  | FR-014                    |  |
| Ad           | Kaset Profili             |  |
| Ağırlık      | 0.891 Kg/m                |  |
| Profil Kodu  | FR-025                    |  |
| Parça Kodu   | (A) 107FR170 (B) 107FR273 |  |
| Kesim Ölçüsü | 17.0 mm 27.3 mm           |  |
| Profil Kodu  | FR-018                    |  |
| Kesim Ölçüsü | 40 mm                     |  |

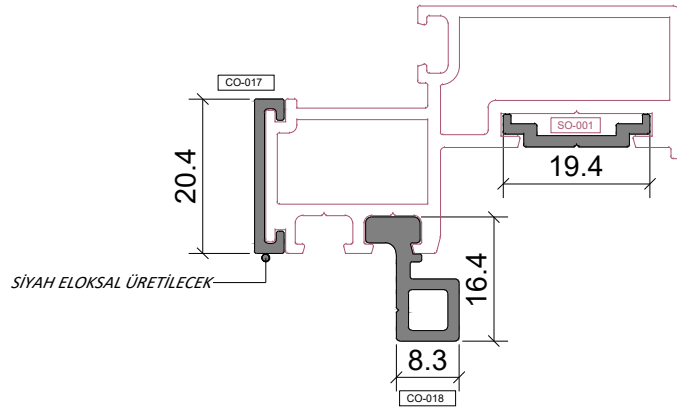


|              |                  |  |
|--------------|------------------|--|
| Profil Kodu  | FR-015           |  |
| Ad           | Kompozit Profili |  |
| Ağırlık      | 0.592 Kg/m       |  |
| Profil Kodu  | FR-025           |  |
| Parça Kodu   | (A) 107FR284     |  |
| Kesim Ölçüsü | 28,4 mm          |  |

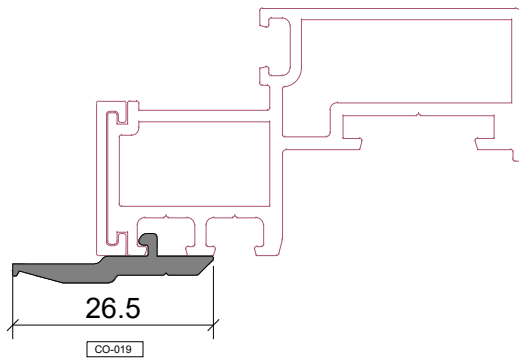


|              |                  |  |
|--------------|------------------|--|
| Profil Kodu  | FR-016           |  |
| Ad           | Spandrel Profili |  |
| Ağırlık      | 0.546 Kg/m       |  |
| Profil Kodu  | FR-025           |  |
| Parça Kodu   | (A) 107FR170     |  |
| Kesim Ölçüsü | 17,0 mm          |  |
| Profil Kodu  | FR-019           |  |
| Kesim Ölçüsü | 80 mm            |  |



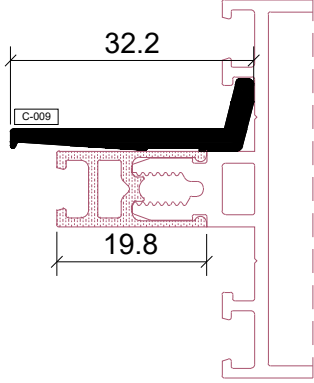


|             |                 |  |
|-------------|-----------------|--|
| Profil Kodu | FR-017          |  |
| Ad          | Bonding Profili |  |
| Ağırlık     | 0.091 Kg/m      |  |
| Profil Kodu | RO-001          |  |
| Ad          | Tij Profil      |  |
| Ağırlık     | 0.091 Kg/m      |  |
| Profil Kodu | FR-018          |  |
| Ad          | Klips Profili   |  |
| Ağırlık     | 0.204 Kg/m      |  |

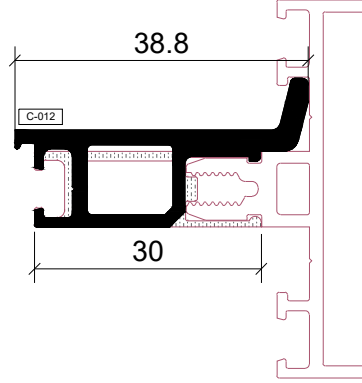


|             |                  |  |
|-------------|------------------|--|
| Profil Kodu | FR-019           |  |
| Ad          | Yük Alıcı Profil |  |
| Ağırlık     | 0.178 Kg/m       |  |

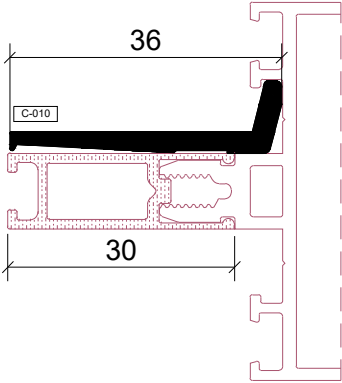




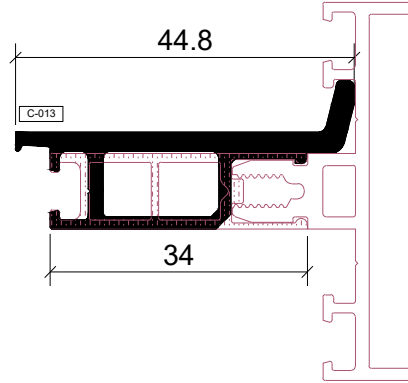
|              |                  |
|--------------|------------------|
| Profil Kodu  | FR50-009         |
| Ad           | Yük Alıcı Profil |
| Ağırlık      | 0.254 Kg/m       |
| Kesim Ölçüsü | 80 mm            |



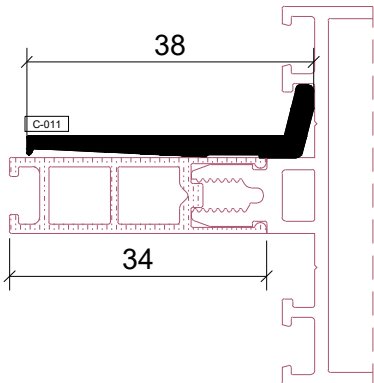
|              |                  |
|--------------|------------------|
| Profil Kodu  | FR50-012         |
| Ad           | Yük Alıcı Profil |
| Ağırlık      | 0.496 Kg/m       |
| Kesim Ölçüsü | 80 mm            |



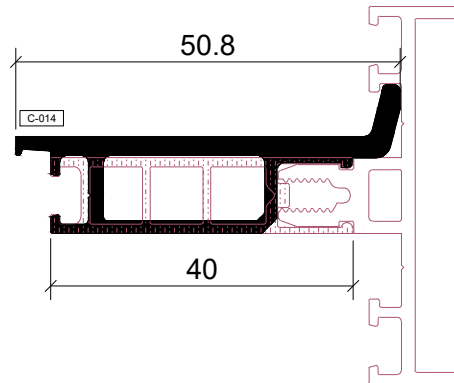
|              |                  |
|--------------|------------------|
| Profil Kodu  | FR50-010         |
| Ad           | Yük Alıcı Profil |
| Ağırlık      | 0.276 Kg/m       |
| Kesim Ölçüsü | 80 mm            |



|              |                  |
|--------------|------------------|
| Profil Kodu  | FR50-013         |
| Ad           | Yük Alıcı Profil |
| Ağırlık      | 0.567 Kg/m       |
| Kesim Ölçüsü | 80 mm            |

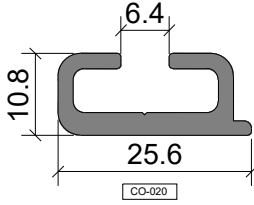


|              |                  |
|--------------|------------------|
| Profil Kodu  | FR50-011         |
| Ad           | Yük Alıcı Profil |
| Ağırlık      | 0.289 Kg/m       |
| Kesim Ölçüsü | 80 mm            |

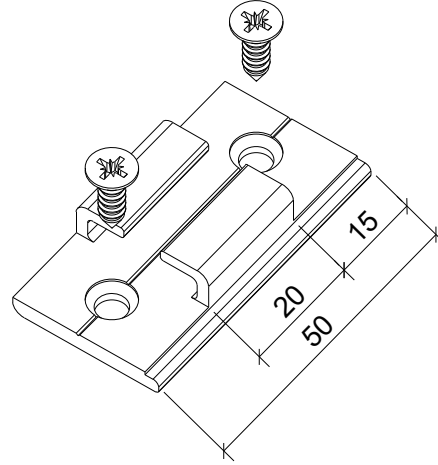


|              |                  |
|--------------|------------------|
| Profil Kodu  | FR50-014         |
| Ad           | Yük Alıcı Profil |
| Ağırlık      | 0.634 Kg/m       |
| Kesim Ölçüsü | 80 mm            |



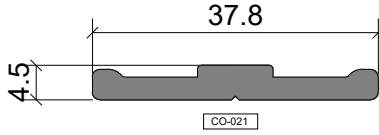


|              |                  |  |
|--------------|------------------|--|
| Profil Kodu  | FR-020           |  |
| Ad           | Karşılık Profili |  |
| Ağırlık      | 0.343 Kg/m       |  |
| Kesim Ölçüsü | 50 mm            |  |

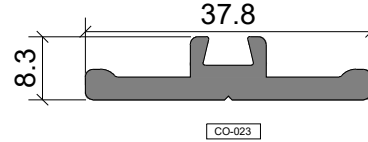


**\*\* FR-020 KODLU KARŞILIK PROFİLİNE MEKANİK İŞLEM VE SİYAH ELOKSALYAPILACAKTIR.**

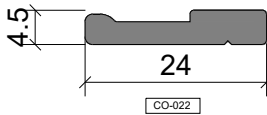
MECHANICAL PROCESS AND BLACK ANODIZING WILL BE MADE TO THE FR-020 CODED STRIKE PROFILE.



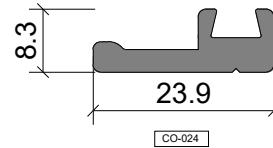
|              |                      |  |
|--------------|----------------------|--|
| Profil Kodu  | FR-021               |  |
| Ad           | Çiftli Klips Profili |  |
| Ağırlık      | 0.365 Kg/m           |  |
| Kesim Ölçüsü | 15 mm                |  |



|              |                      |  |
|--------------|----------------------|--|
| Profil Kodu  | FR-023               |  |
| Ad           | Çiftli Klips Profili |  |
| Ağırlık      | 0.405 Kg/m           |  |
| Kesim Ölçüsü | 15 mm                |  |

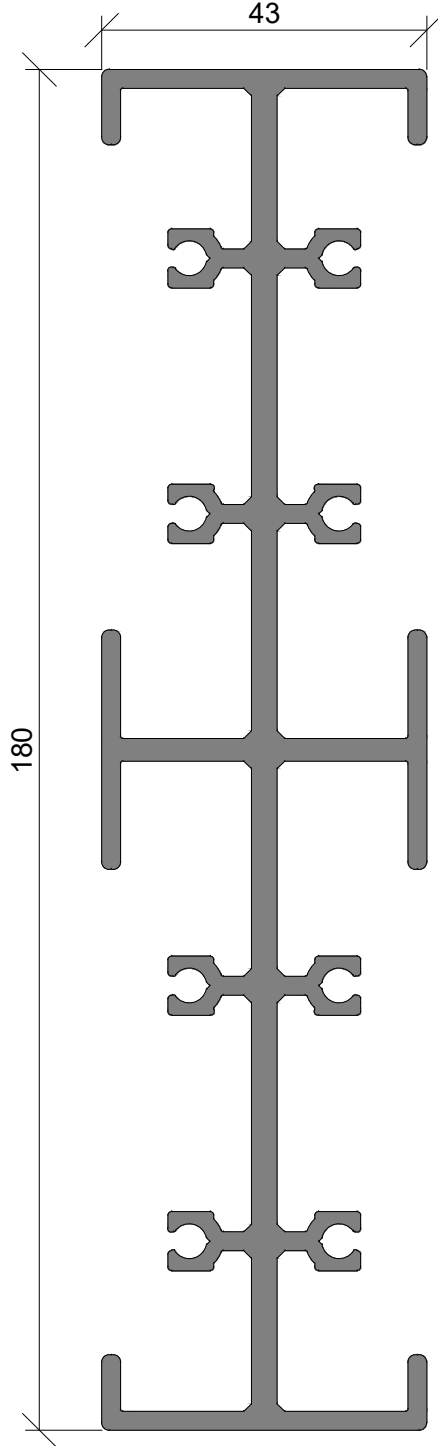


|              |                     |  |
|--------------|---------------------|--|
| Profil Kodu  | FR-022              |  |
| Ad           | Tekli Klips Profili |  |
| Ağırlık      | 0.245 Kg/m          |  |
| Kesim Ölçüsü | 15 mm               |  |



|              |                     |  |
|--------------|---------------------|--|
| Profil Kodu  | FR-024              |  |
| Ad           | Tekli Klips Profili |  |
| Ağırlık      | 0.284 Kg/m          |  |
| Kesim Ölçüsü | 15 mm               |  |





C-032

|              |                                                                                                |
|--------------|------------------------------------------------------------------------------------------------|
| Profil Kodu  | FR50-016  |
| Ad           | Dilatasyon Profili                                                                             |
| Ağırlık      | 4.071 Kg/m                                                                                     |
| Kesim Ölçüsü | Değişken                                                                                       |



**Almin®**  
Alüminyum Profil

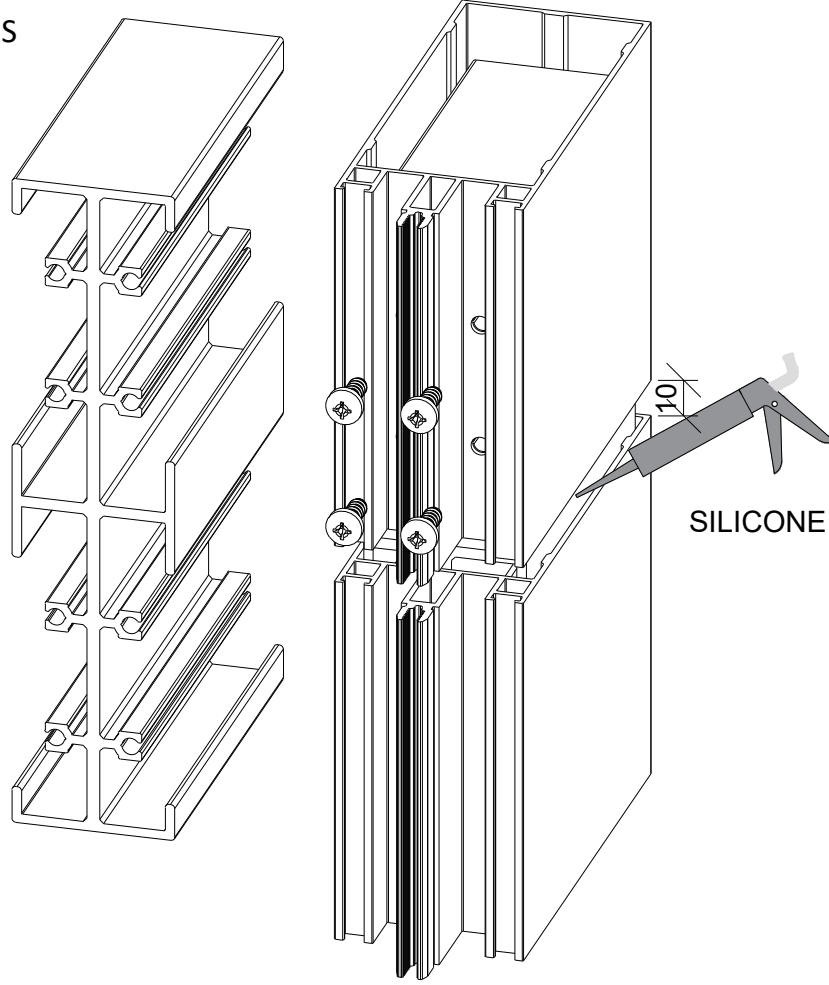
TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Alüminium.



### DİLATASYON BAĞLANTILARI

DILATATION CONNECTIONS

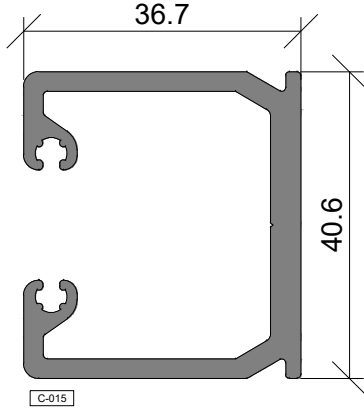


| çizim<br>DRAWING | PARÇA KODU | KULLANILDIĞI PROFİLLER<br>FOR PROFILES | KESİM ÖLÇÜSÜ<br>CUTTING DIMENSION |
|------------------|------------|----------------------------------------|-----------------------------------|
|                  | 43DL32     | FR50-50M                               | 32 mm                             |
|                  | 43DL42     | FR50-60M                               | 42 mm                             |
|                  | 43DL62     | FR50-80M                               | 62 mm                             |
|                  | 43DL82     | FR50-100M                              | 82 mm                             |
|                  | 43DL101    | FR50-120M                              | 101 mm                            |
|                  | 43DL111    | FR50-130M                              | 111 mm                            |
|                  | 43DL121    | FR50-140M-1.6                          | 121 mm                            |
|                  | 43DL121    | FR50-140M-2.0                          | 121 mm                            |
|                  | 43DL131    | FR50-150M                              | 131 mm                            |
|                  | 43DL141    | FR50-160M-2.0                          | 141 mm                            |
|                  | 43DL140    | FR50-160M-4.0                          | 140 mm                            |
|                  | 43DL161    | FR50-180M-2.0                          | 161 mm                            |
|                  | 43DL159    | FR50-180M-5.0                          | 159 mm                            |
|                  | 43DL181    | FR50-200M-2.5                          | 181 mm                            |
|                  | 43DL177    | FR50-200M-6.0                          | 177 mm                            |
|                  | 43DL201    | FR50-220M-2.5                          | 201 mm                            |
|                  | 43DL195    | FR50-220M-8.0                          | 195 mm                            |

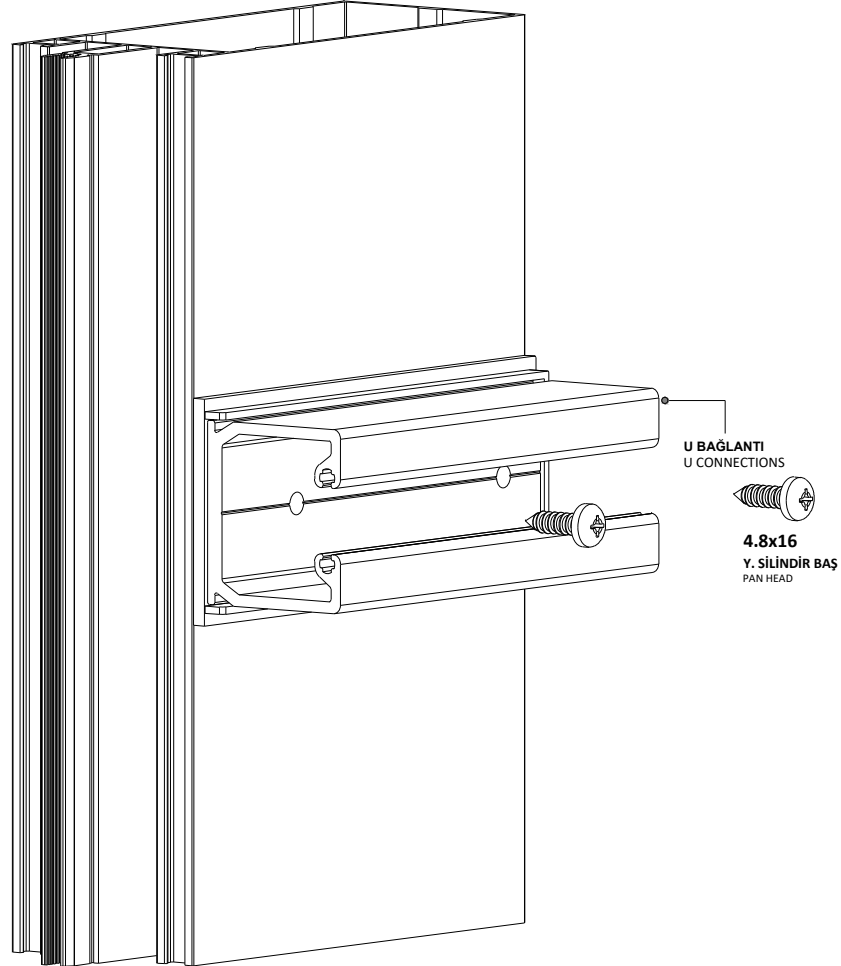




### U BAĞLANTILAR / U CONNECTIONS



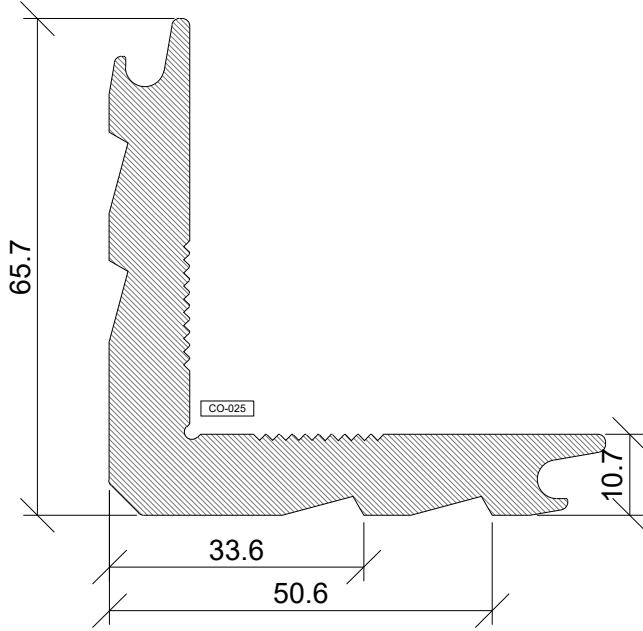
|              |                    |
|--------------|--------------------|
| Profil Kodu  | FR50-015           |
| Ad           | U Bağlantı Profili |
| Ağırlık      | 1.094 Kg/m         |
| Kesim Ölçüsü | Değişken           |



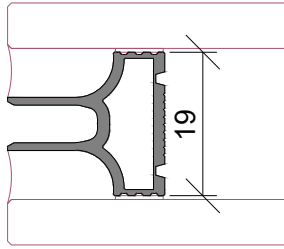
### U BAĞLANTILAR / U CONNECTIONS

| çizim<br>DRAWING | AKSESUAR KODU<br>ACCESSORY CODE | KULLANILDIĞI PROFİLLER<br>FOR PROFILES | KESİM ÖLÇÜSÜ<br>CUTTING DIMENSION |
|------------------|---------------------------------|----------------------------------------|-----------------------------------|
|                  | 40.6FR46                        | FR50-56T                               | 46 mm                             |
|                  | 40.6FR46                        | FR50-66T                               | 46 mm                             |
|                  | 40.6FR76                        | FR50-86T                               | 76 mm                             |
|                  | 40.6FR96                        | FR50-106T                              | 96 mm                             |
|                  | 40.6FR116                       | FR50-126T                              | 116 mm                            |
|                  | 40.6FR126                       | FR50-136T                              | 126 mm                            |
|                  | 40.6FR136                       | FR50-146T                              | 136 mm                            |
|                  | 40.6FR145.3                     | FR50-156T                              | 145,3 mm                          |
|                  | 40.6FR155.3                     | FR50-166T                              | 155,3 mm                          |
|                  | 40.6FR175.3                     | FR50-186T                              | 175,3 mm                          |
|                  | 40.6FR195.3                     | FR50-206T                              | 195,3 mm                          |
|                  | 40.6FR215.3                     | FR50-226T                              | 215,3 mm                          |

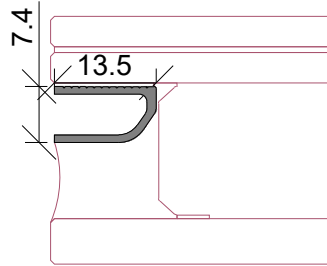




|             |             |  |
|-------------|-------------|--|
| Profil Kodu | FR-025      |  |
| Ad          | Köşe Takoğu |  |
| Ağırlık     | 2.96 Kg/m   |  |



|             |                  |  |
|-------------|------------------|--|
| CO-026      |                  |  |
| Profil Kodu | FR-026           |  |
| Ad          | Cam Arası Profil |  |
| Ağırlık     | 0.335 Kg/m       |  |



|             |                  |  |
|-------------|------------------|--|
| CO-027      |                  |  |
| Profil Kodu | FR-027           |  |
| Ad          | Cam Arası Profil |  |
| Ağırlık     | 0.083 Kg/m       |  |

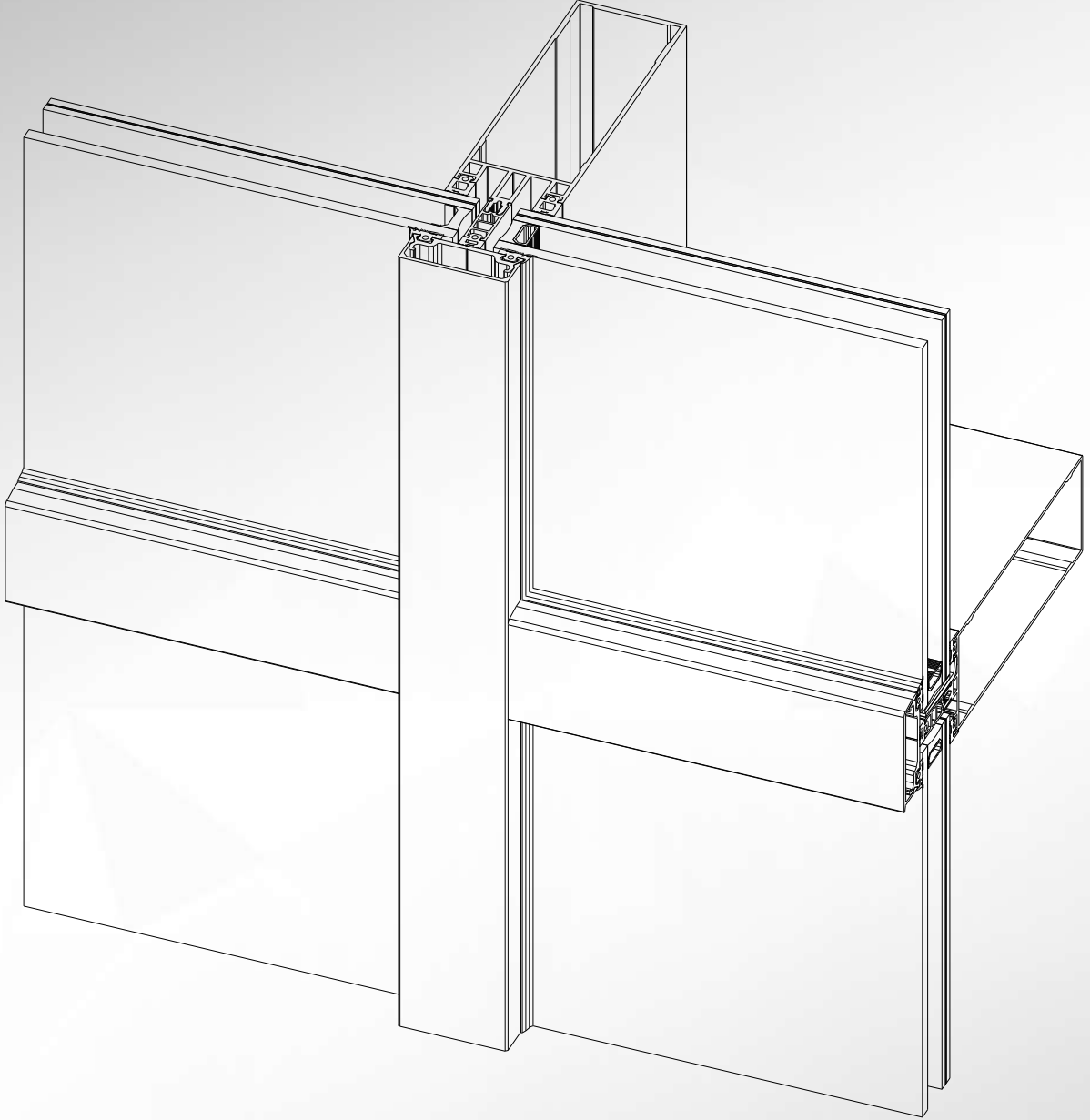




**ROUTE**  
SYSTEMS

**FR50**

FACADE SYSTEMS



## KAPAKLI CEPHE DETALARI/

*CURTAIN WALL DETAILS*



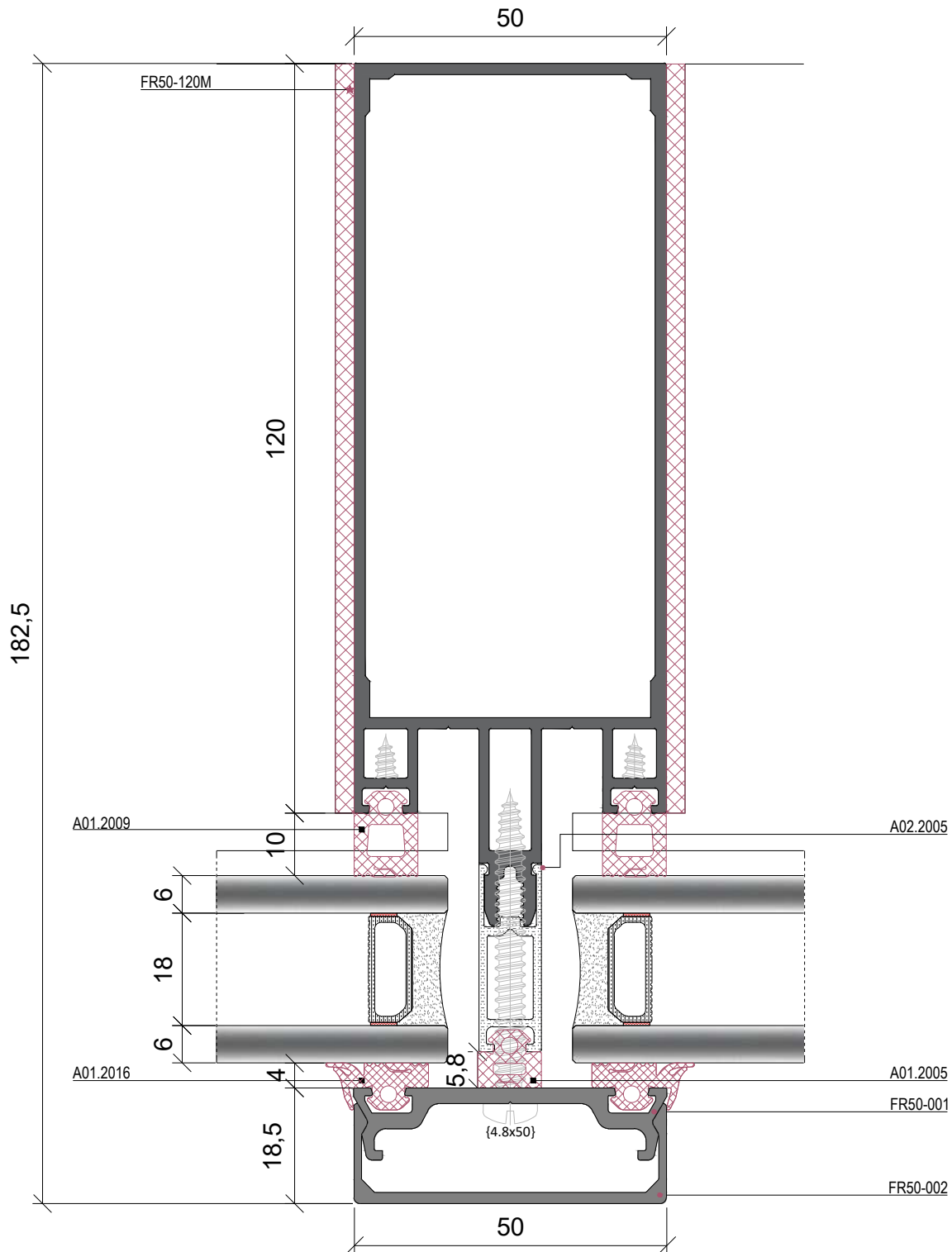
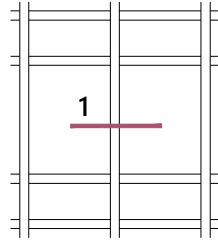
**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.

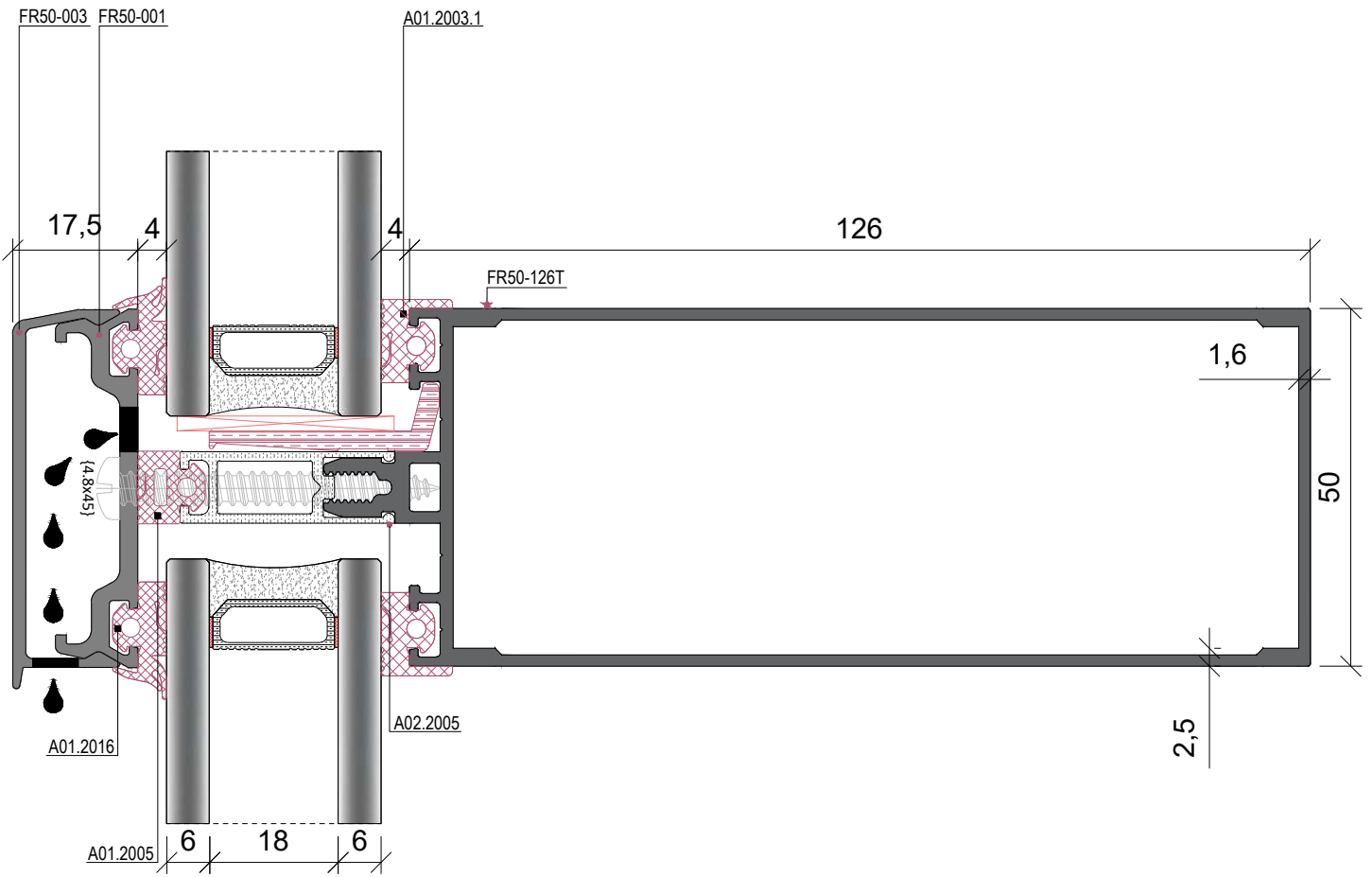
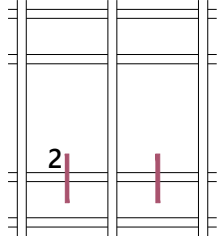
## KAPAKLI CEPHE DÜŞEY DETAYI

### CURTAIN WALL VERTICAL DETAIL



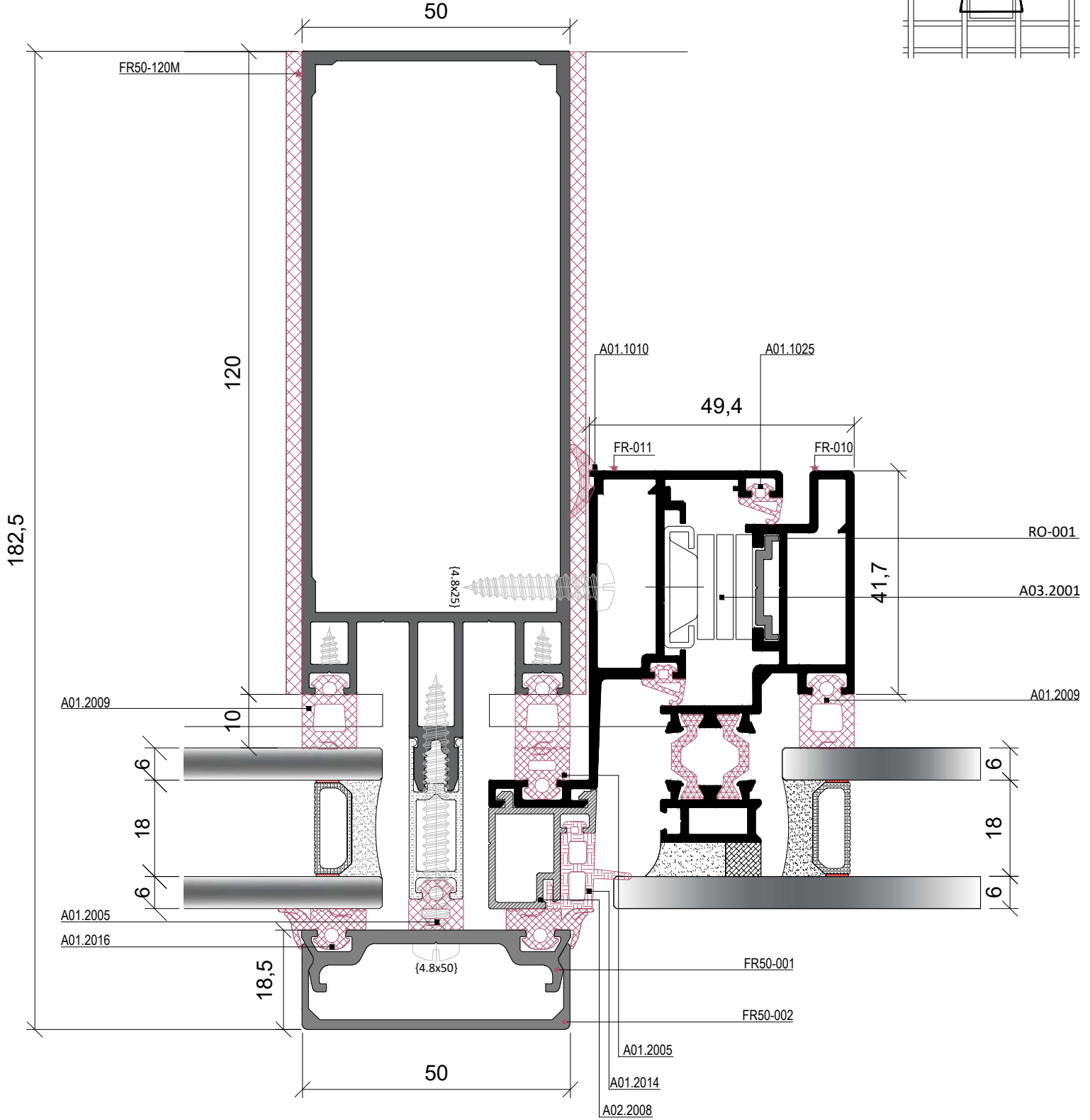
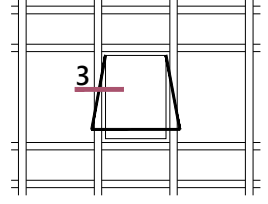


### KAPAKLI CEPHE YATAY DETAYI CURTAIN WALL HORIZONTAL DETAIL



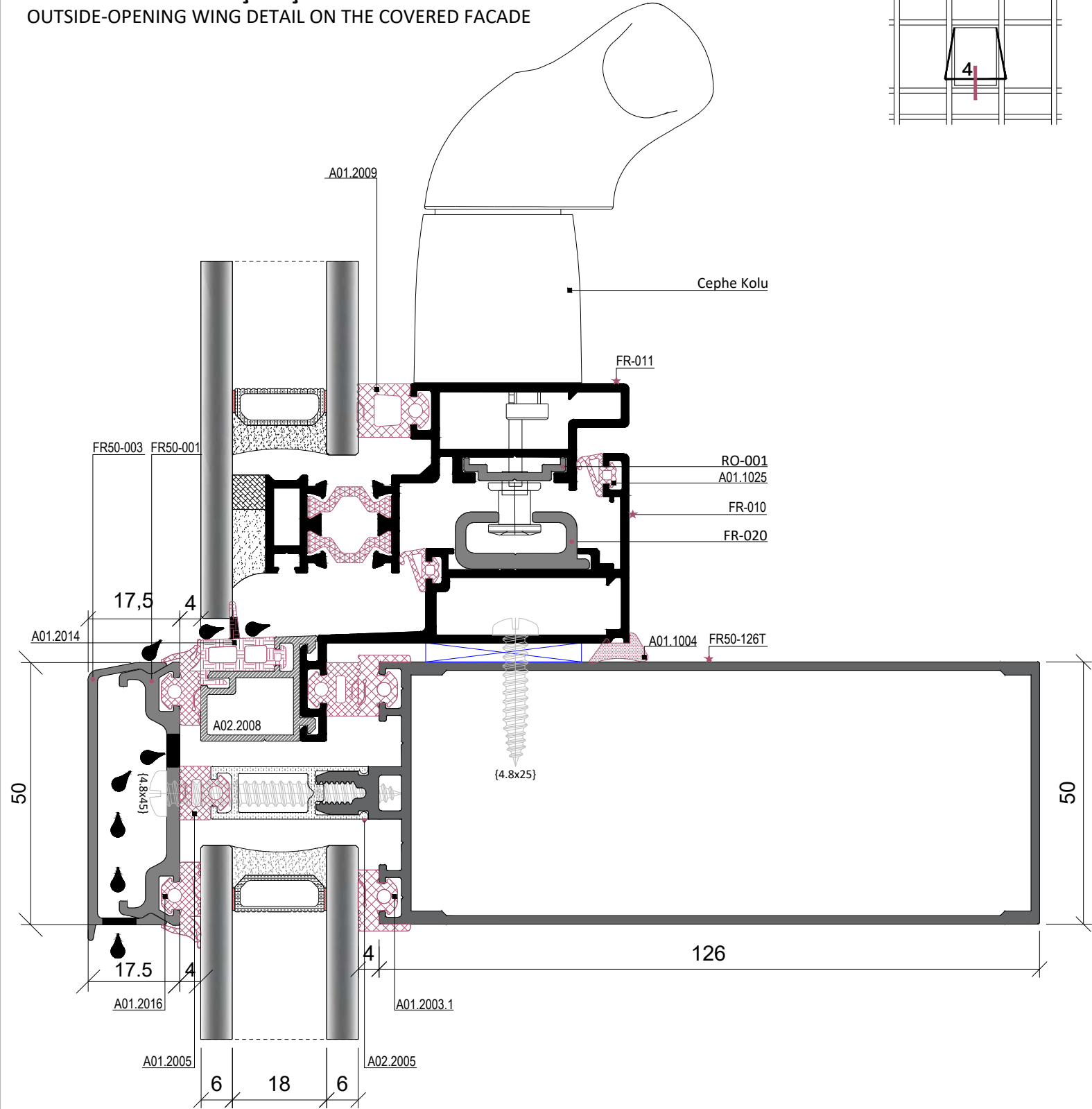
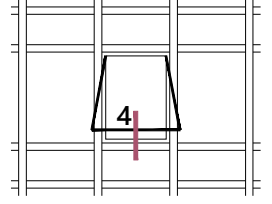


### KAPAKLI CEPHEDE DIŐA AÇILIR KANAT DETAYI OUTSIDE-OPENING WING DETAIL ON THE COVERED FACADE



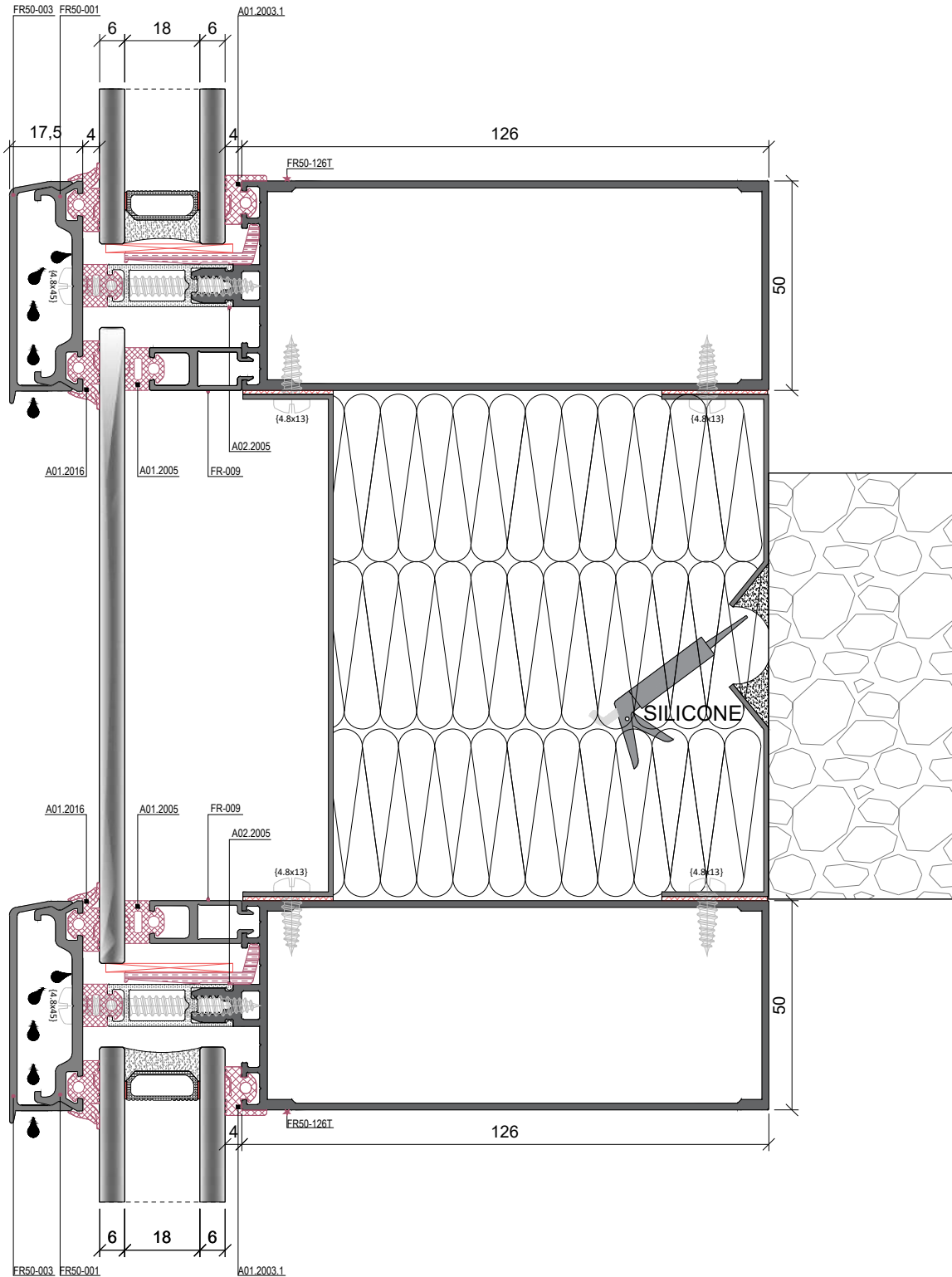


### KAPAKLI CEPHEDE DIŐA AÇILIR KANAT DETAYI OUTSIDE-OPENING WING DETAIL ON THE COVERED FACADE



## KAPAKLI CEPHEDE SPANDREL BÖLGE YATAY DETAYI

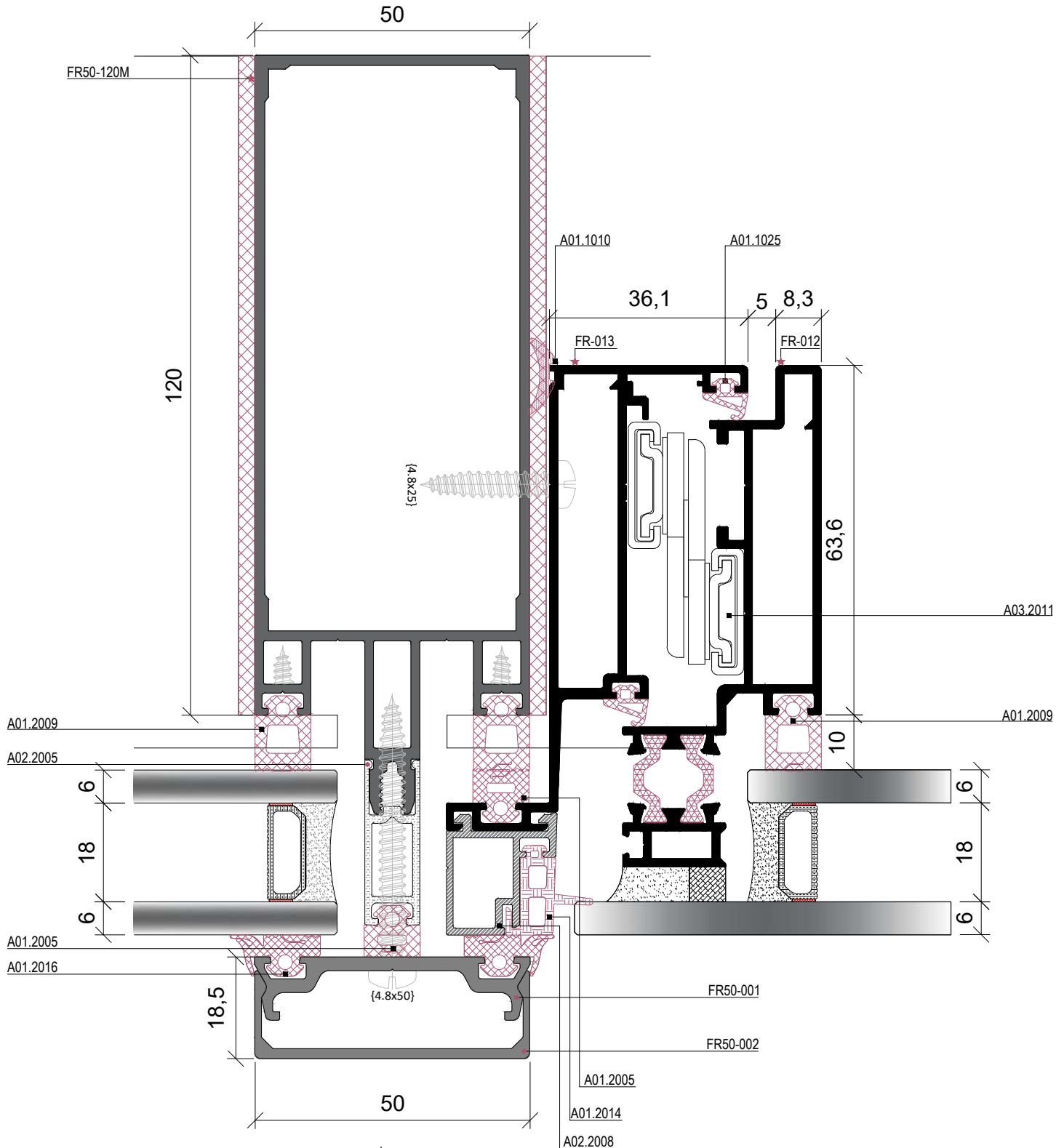
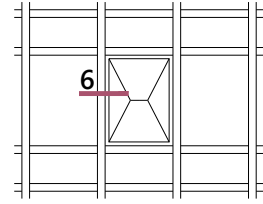
### SPANDREL PANEL IN CAPPED CURTAIN WALL HORIZONTAL DETAIL



! ÖLÇEK: 2/3

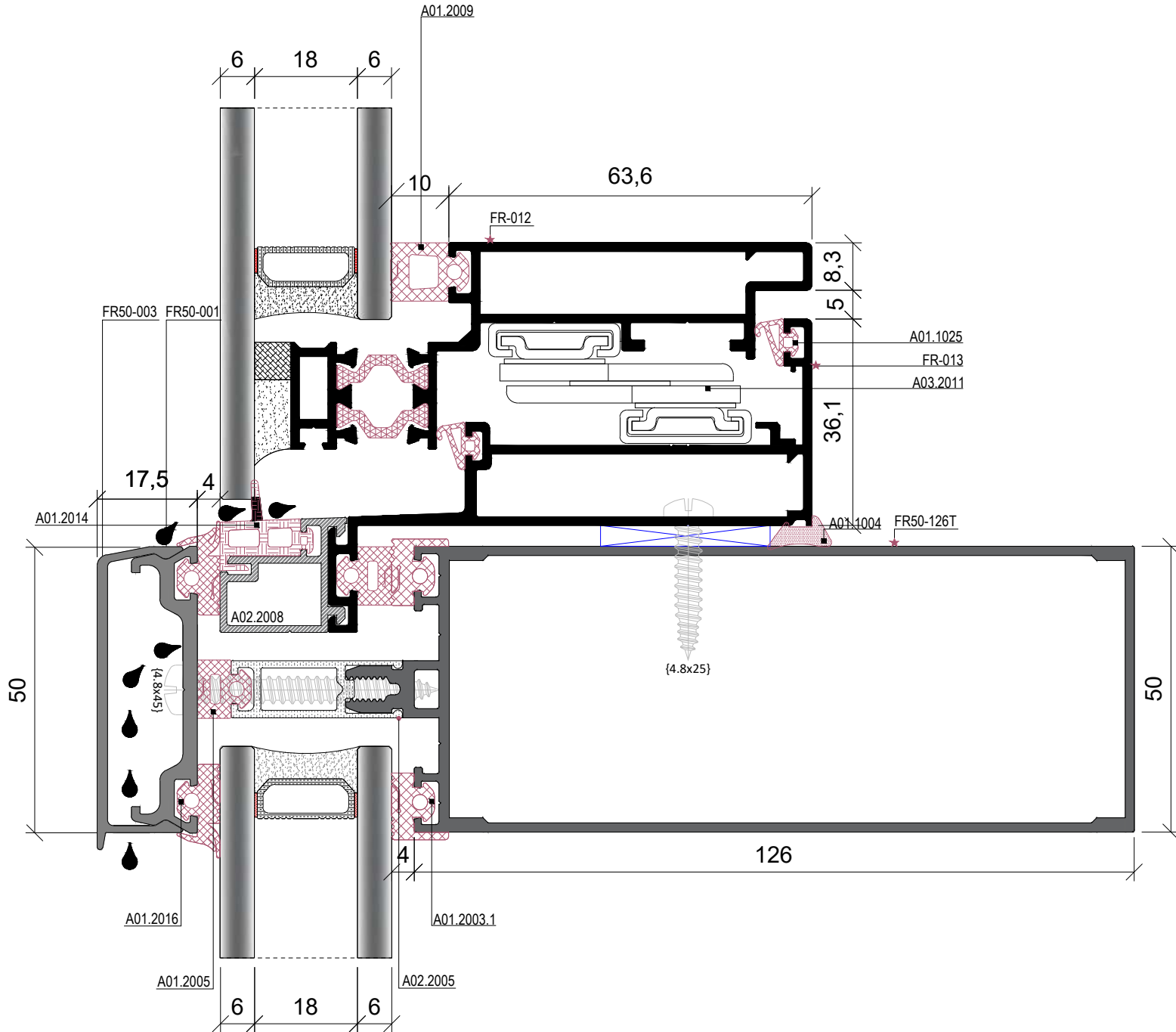
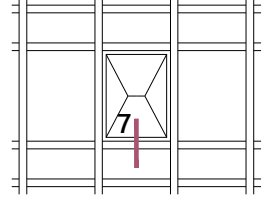
## KAPAKLI CEPHEDE PARELEL AÇILIR KANAT DETAYI

### PARALLEL OPENING WING DETAIL ON THE COVERED FACADE





### KAPAKLI CEPHEDE PARELEL AÇILIR KANAT DETAYI PARALLEL OPENING WING DETAIL ON THE COVERED FACADE

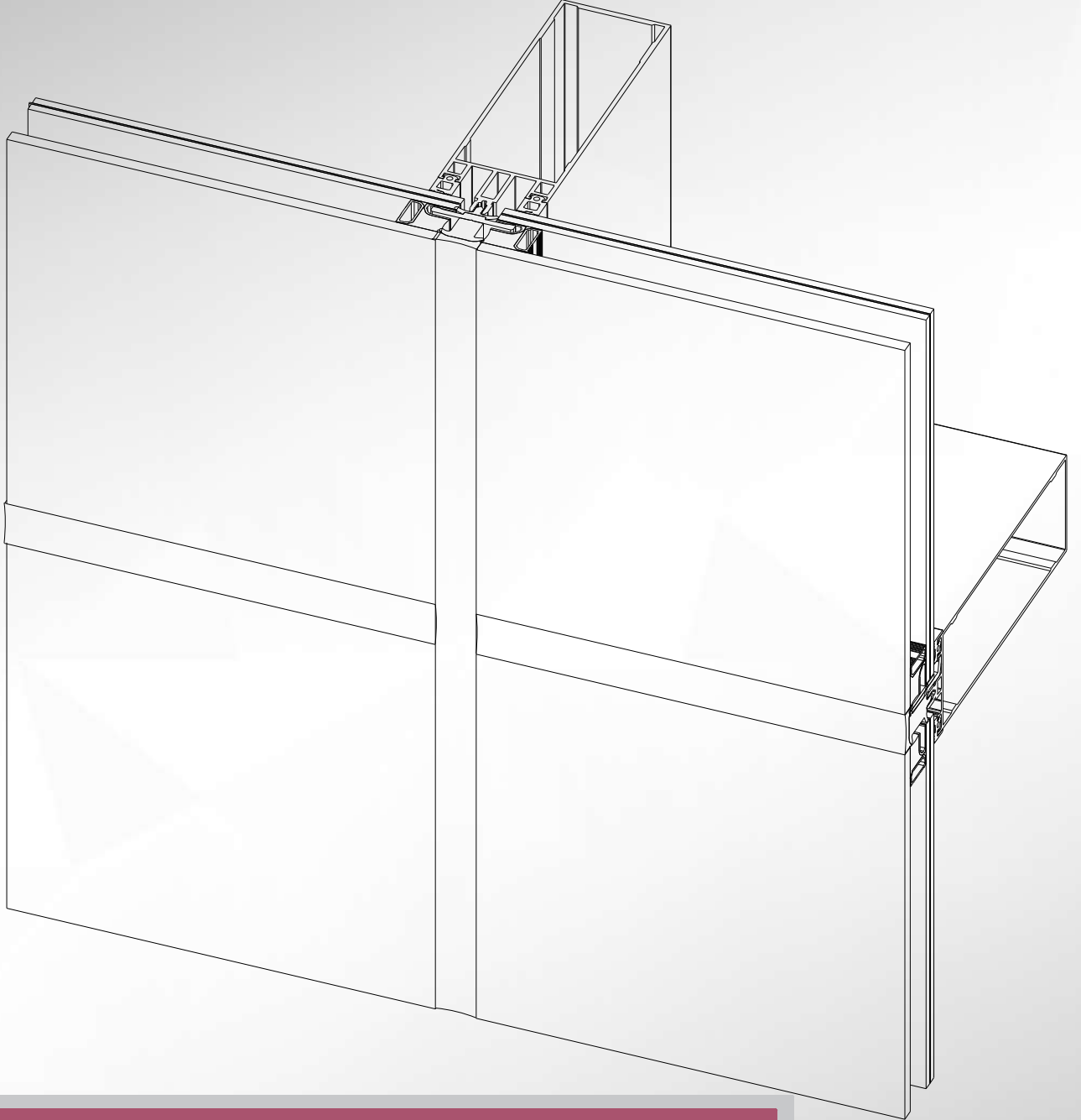




**ROUTE**  
SYSTEMS

**FR50**

FACADE SYSTEMS



## SİLİKON DERZLİ SİSTEM DETAYLARI/

*FOUR SIDED SILICONE CURTAIN WALL DETAILS*



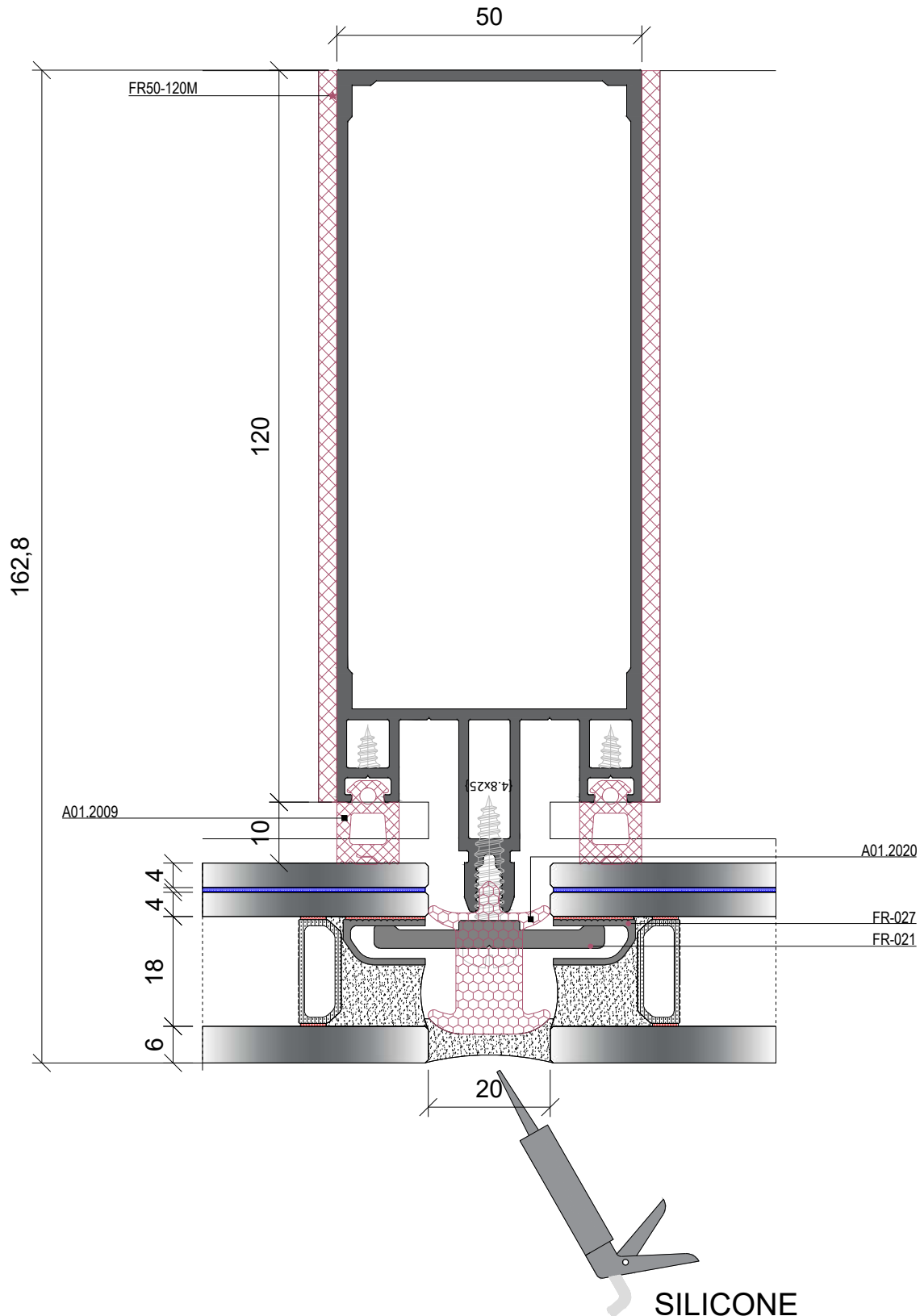
**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.

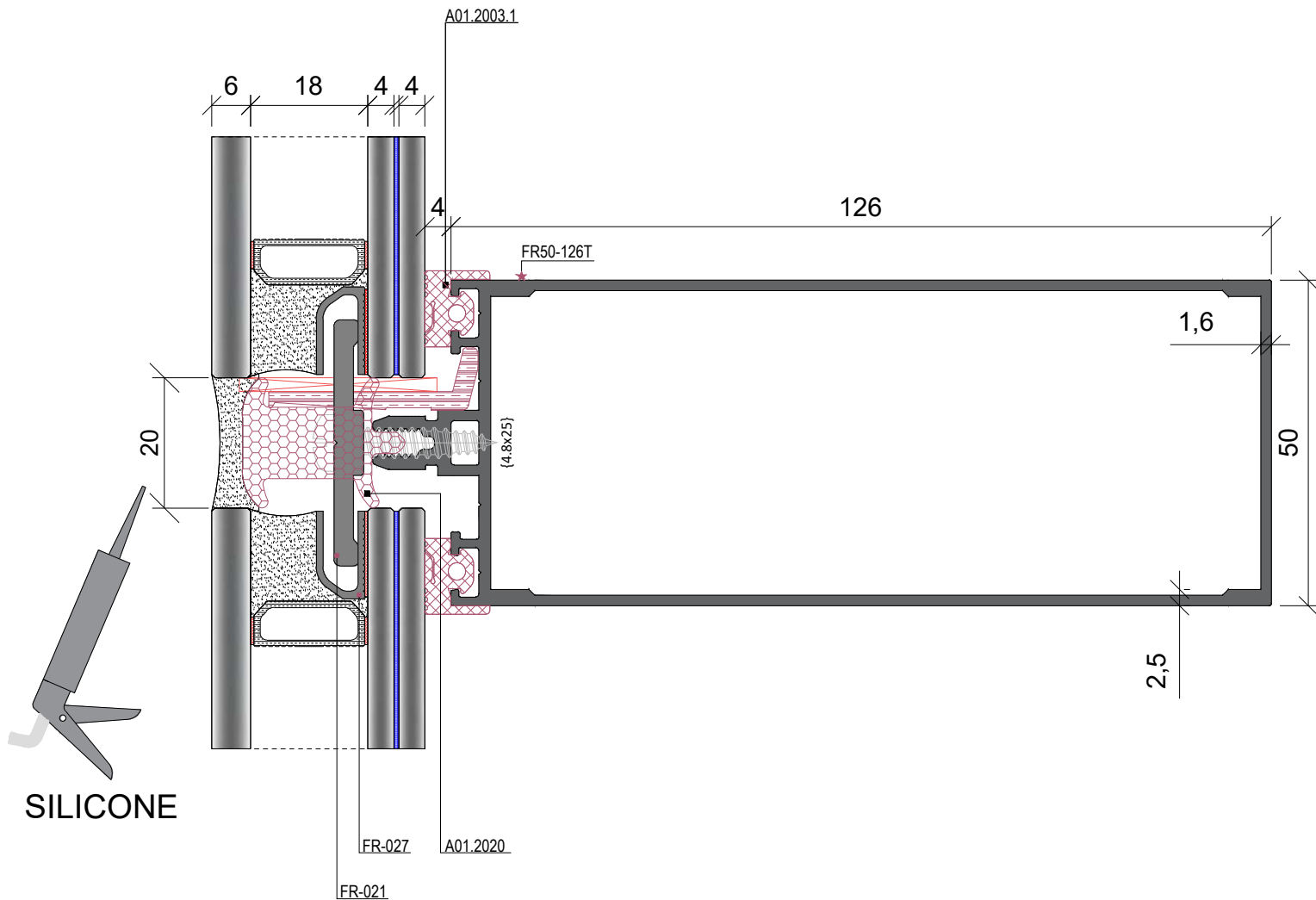
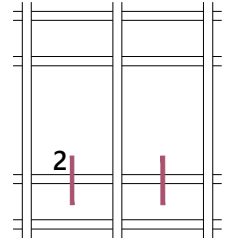
## SİLİKON CEPHE DÜŞEY DETAYI

### CURTAIN WALL VERTICAL DETAIL



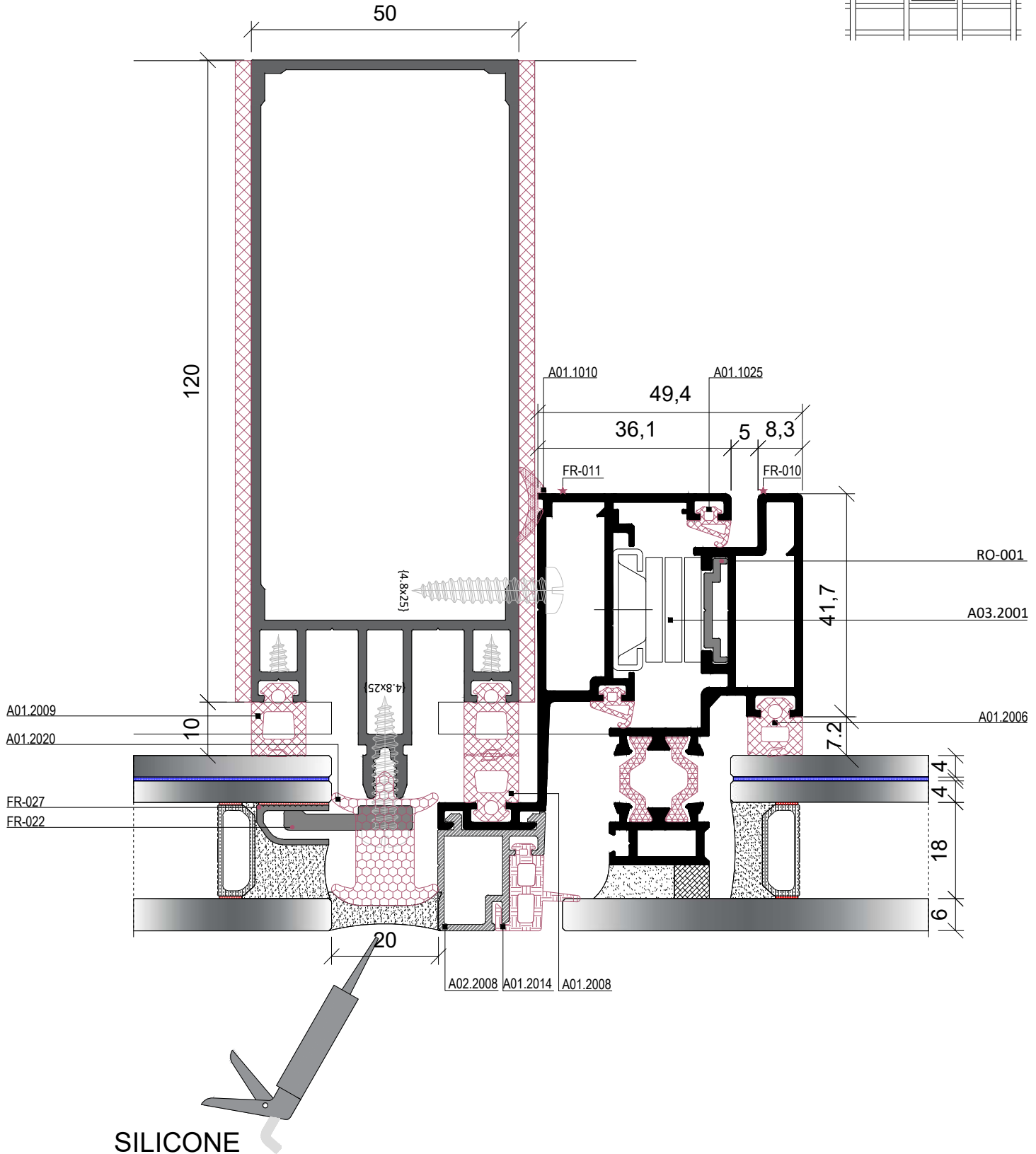
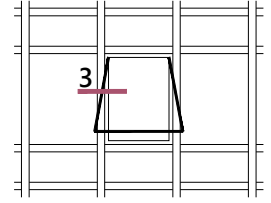
## SİLİKON CEPHE YATAY DETAYI

### CURTAIN WALL HORIZONTAL DETAIL



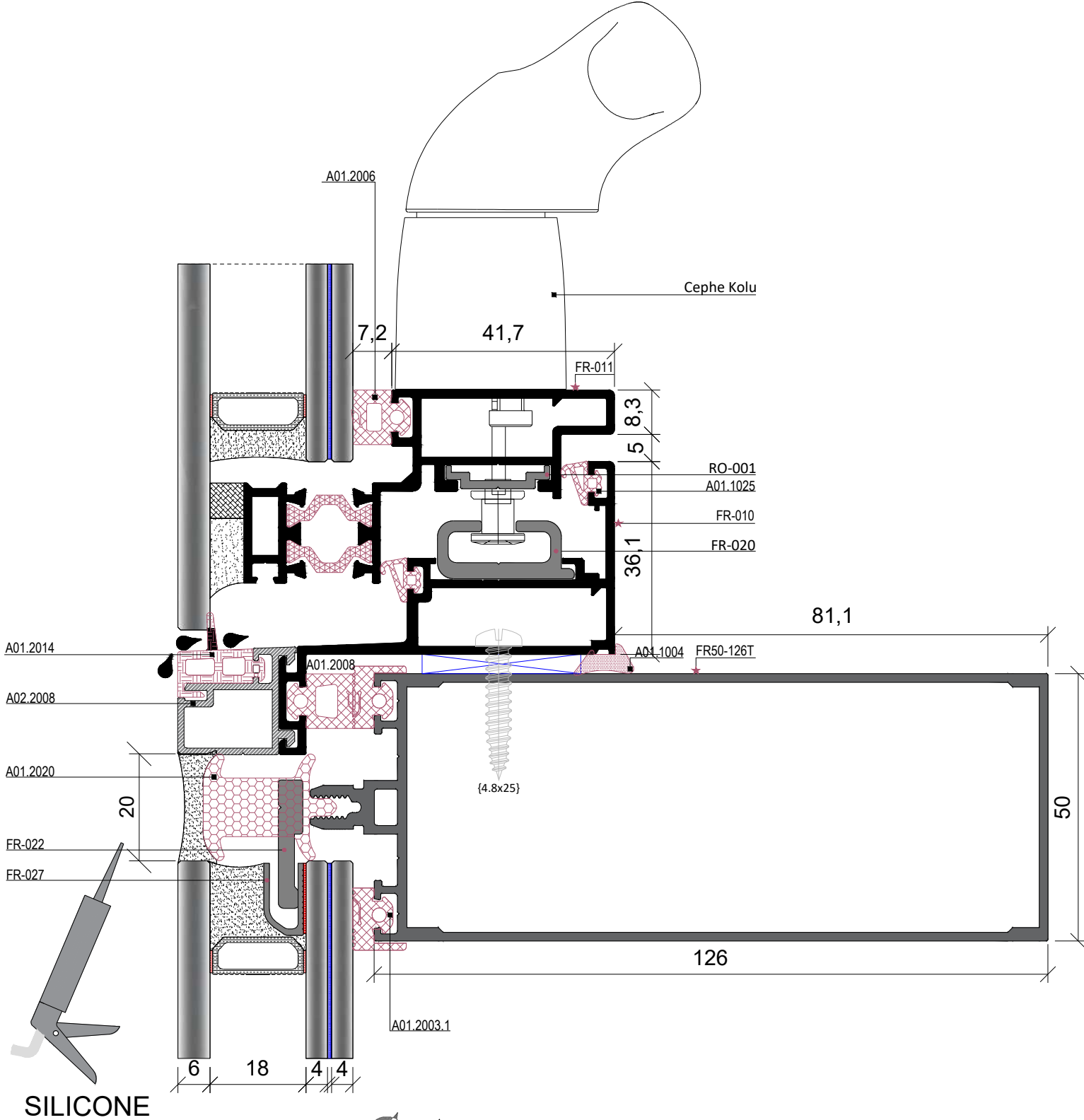
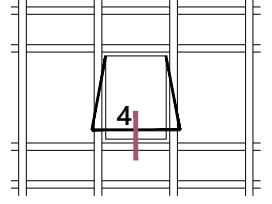
## SİLİKON CEPHEDE DIŞA AÇILIR KANAT DETAYI

### REVERSE OPENING WING DETAIL ON THE SILICONE FACADE





### SİLİKON CEPHEDE DIŞA AÇILIR KANAT DETAYI REVERSE OPENING WING DETAIL ON THE SILICONE FACADE



SILICONE



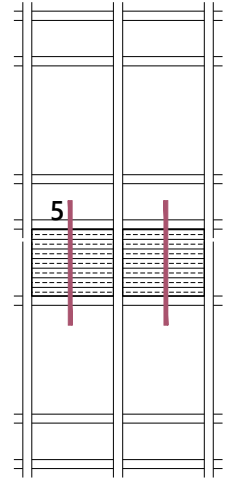
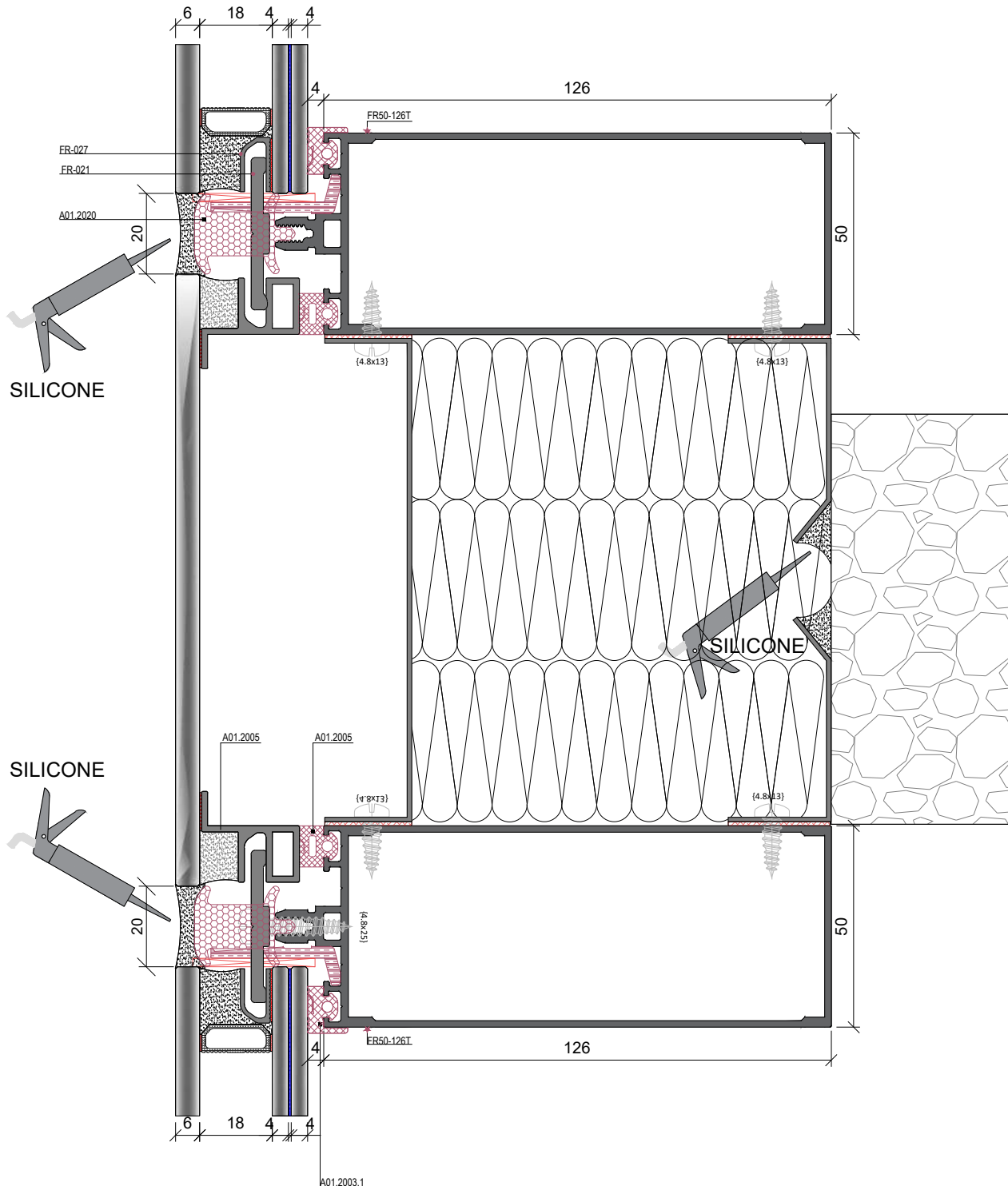
**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.

## SİLİKON CEPHE SPANDREL BÖLGE DETAYI

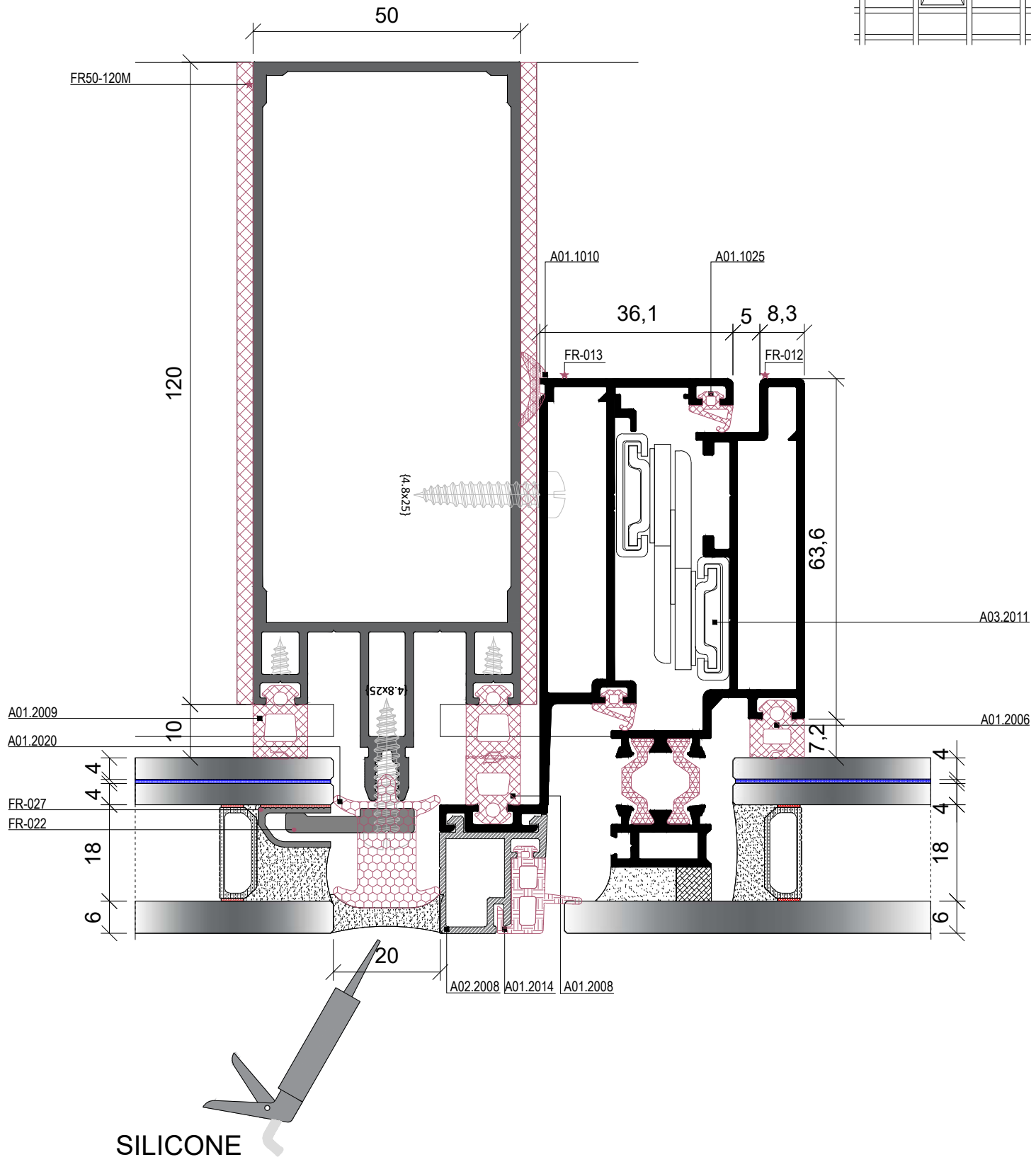
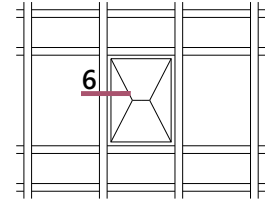
### SILICONE FACADE SPANDREL AREA DETAIL



! ÖLÇEK: 2/3

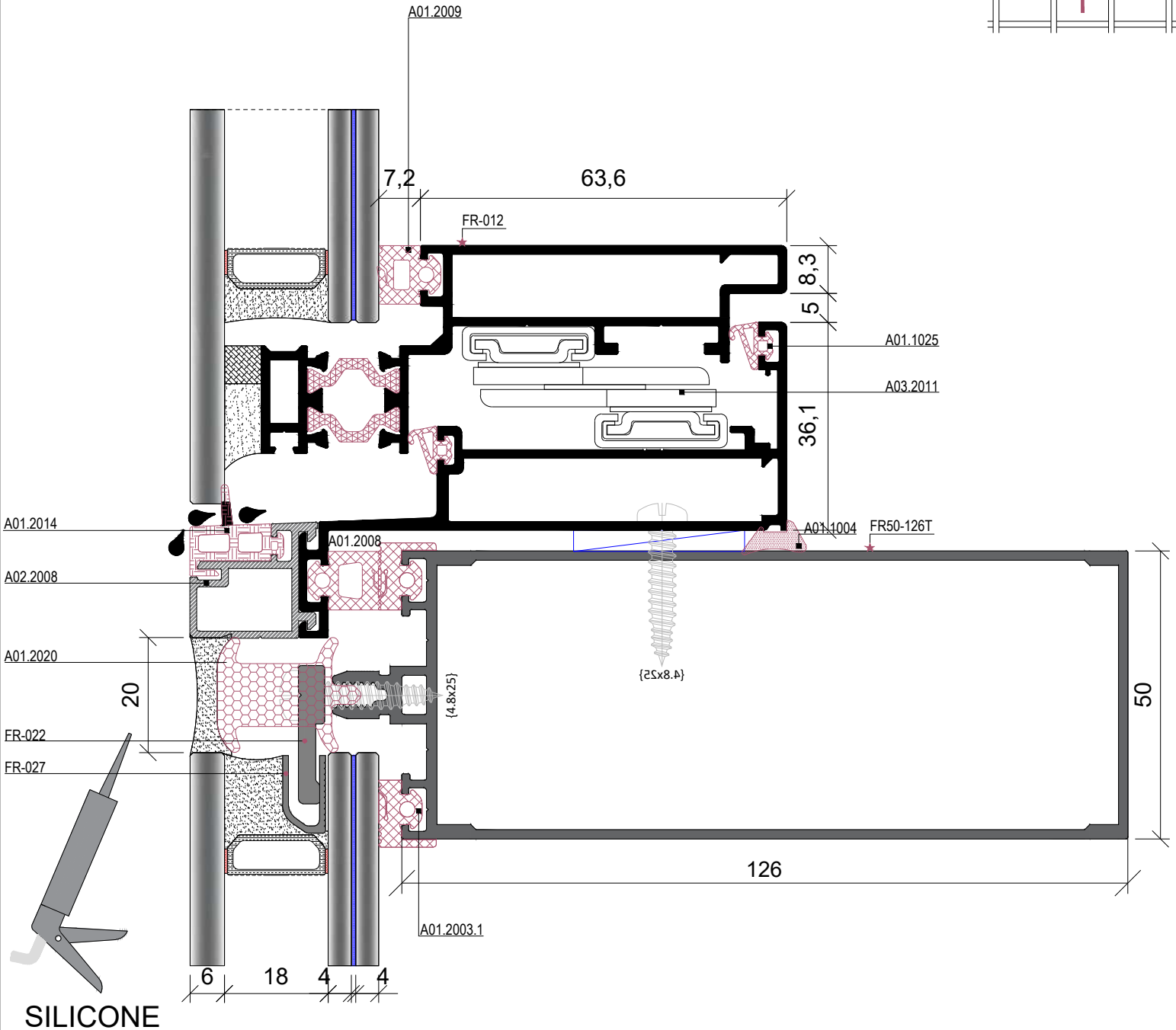
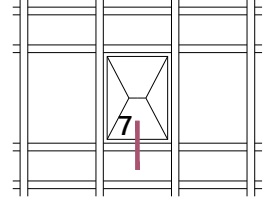
## SİLİKON CEPHEDE PARALEL AÇILIR KANAT DETAYI

### SILICONE FACADE PARALLEL OPENING WING DETAIL



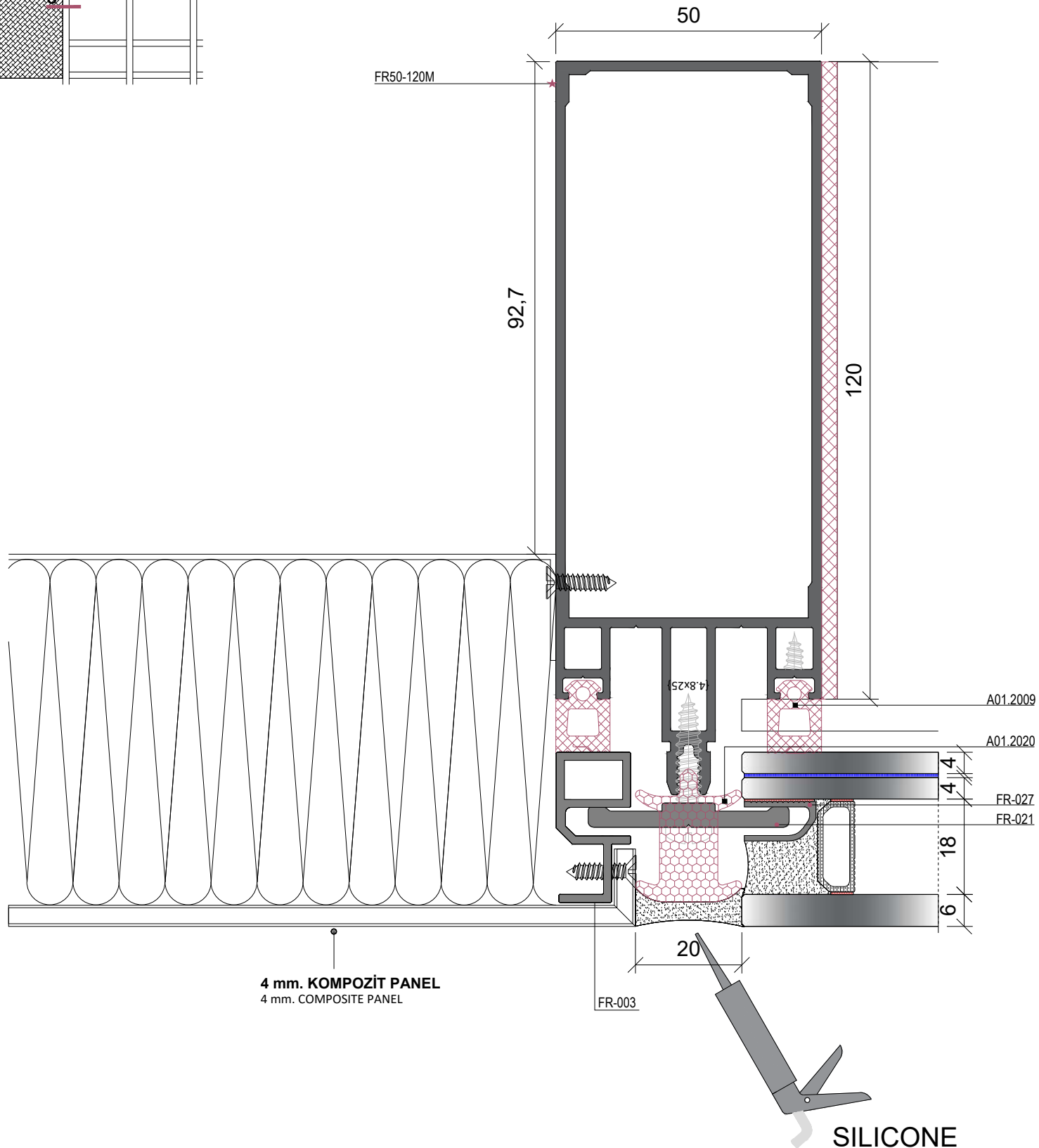
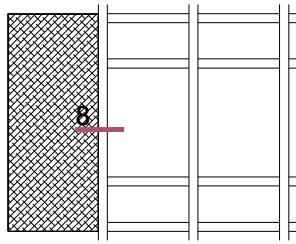
## SİLİKON CEPHEDE PARALEL AÇILIR KANAT DETAYI

### SILICONE FACADE PARALLEL OPENING WING DETAIL



## SİLİKON CEPHE KOMPOZİT DETAYI

### SILICONE FACADE COMPOSITE DETAIL

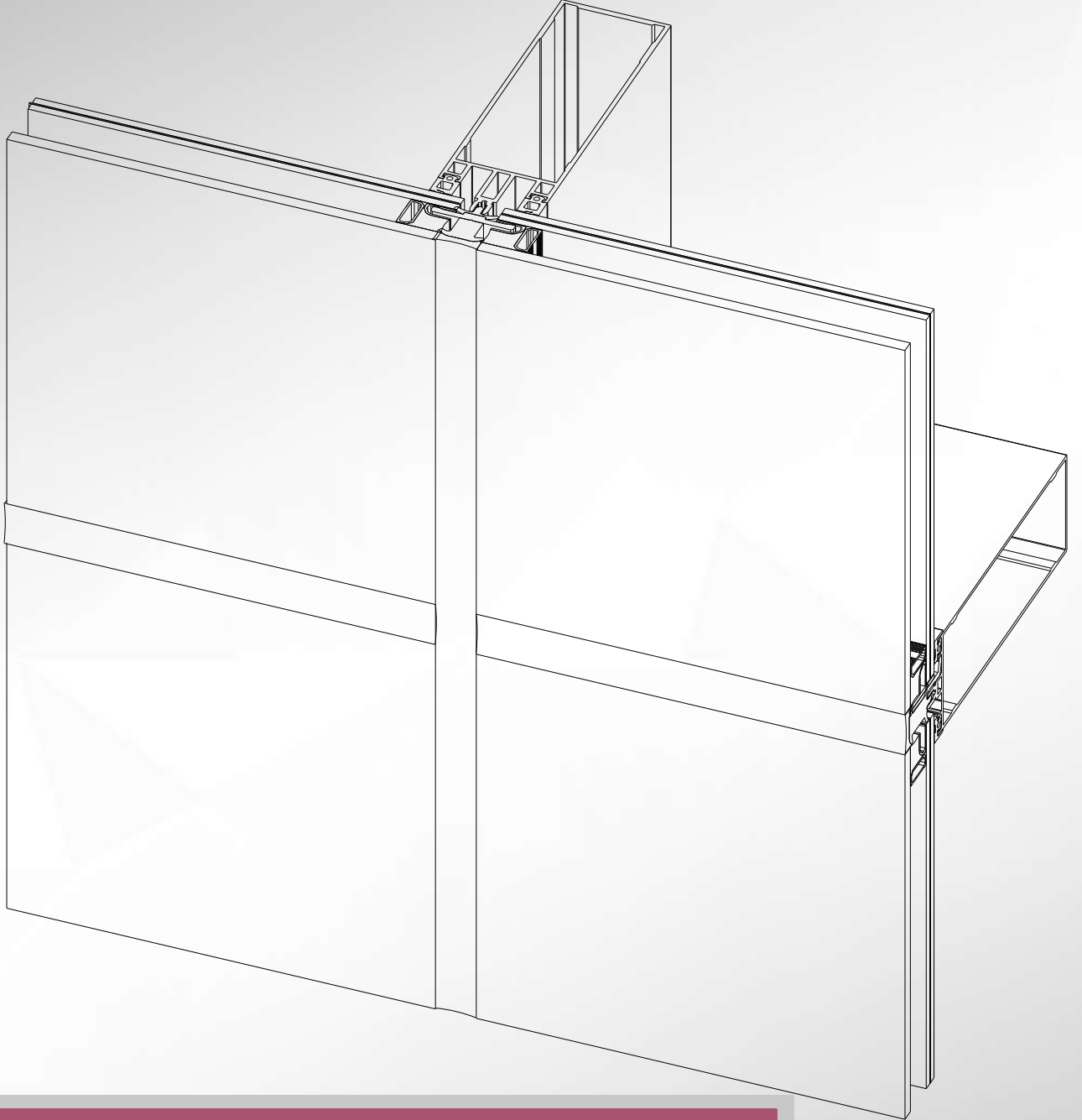




**ROUTE**  
SYSTEMS

**FR50**

FACADE SYSTEMS



## 2. SİLİKON DERZLİ SİSTEM DETAYLARI/

*2.FOUR SIDED SILICONE CURTAIN WALL DETAILS*



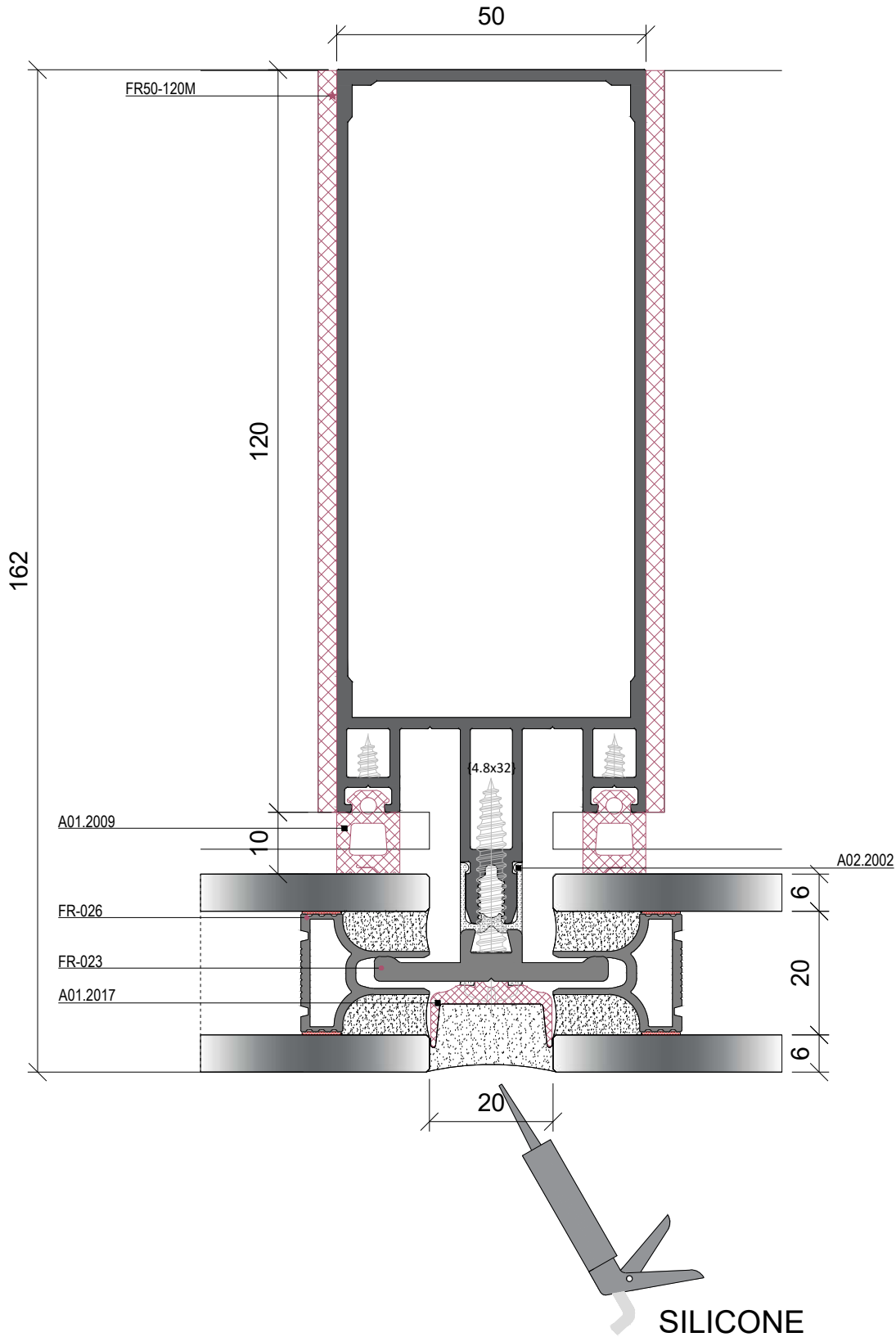
**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Alüminium.

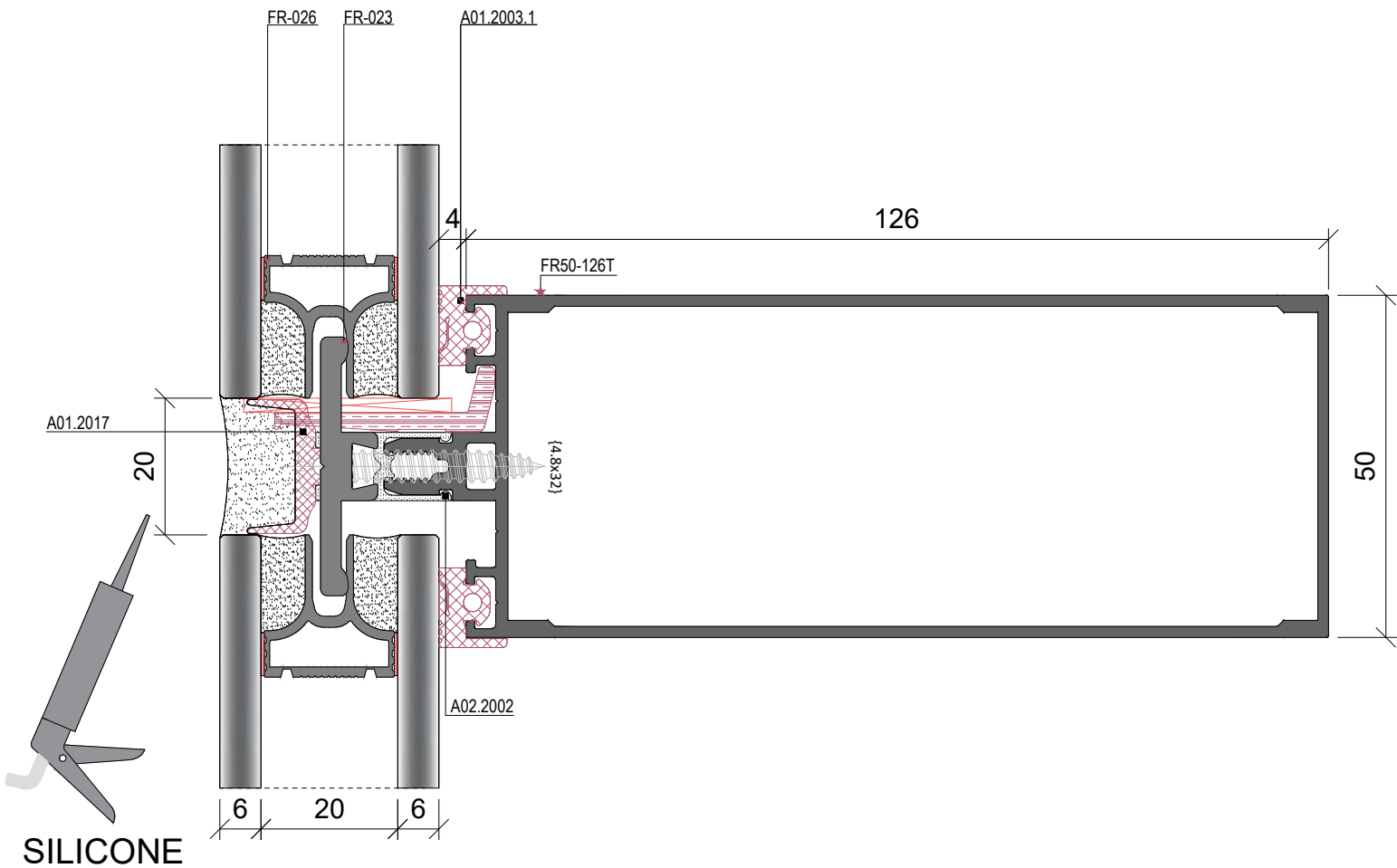
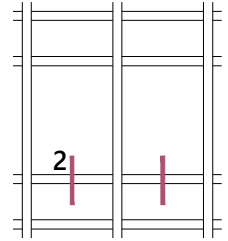


**SİLİKON CEPHE DÜŞEY DETAYI**  
CURTAIN WALL VERTICAL DETAIL



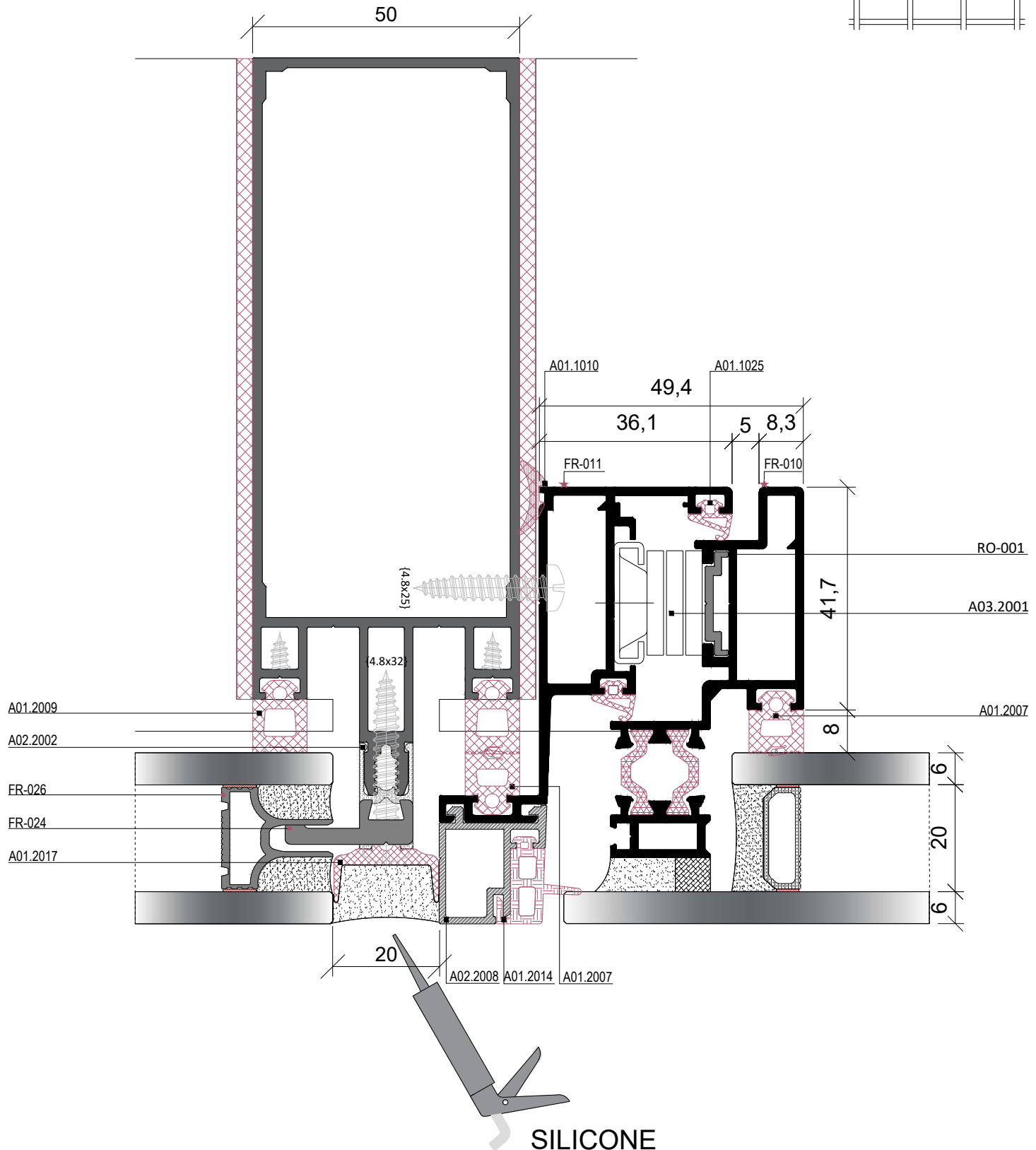
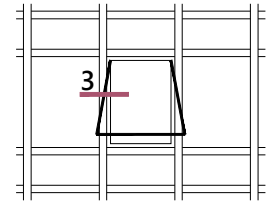
## SİLİKON CEPHE YATAY DETAYI

### CURTAIN WALL HORIZONTAL DETAIL



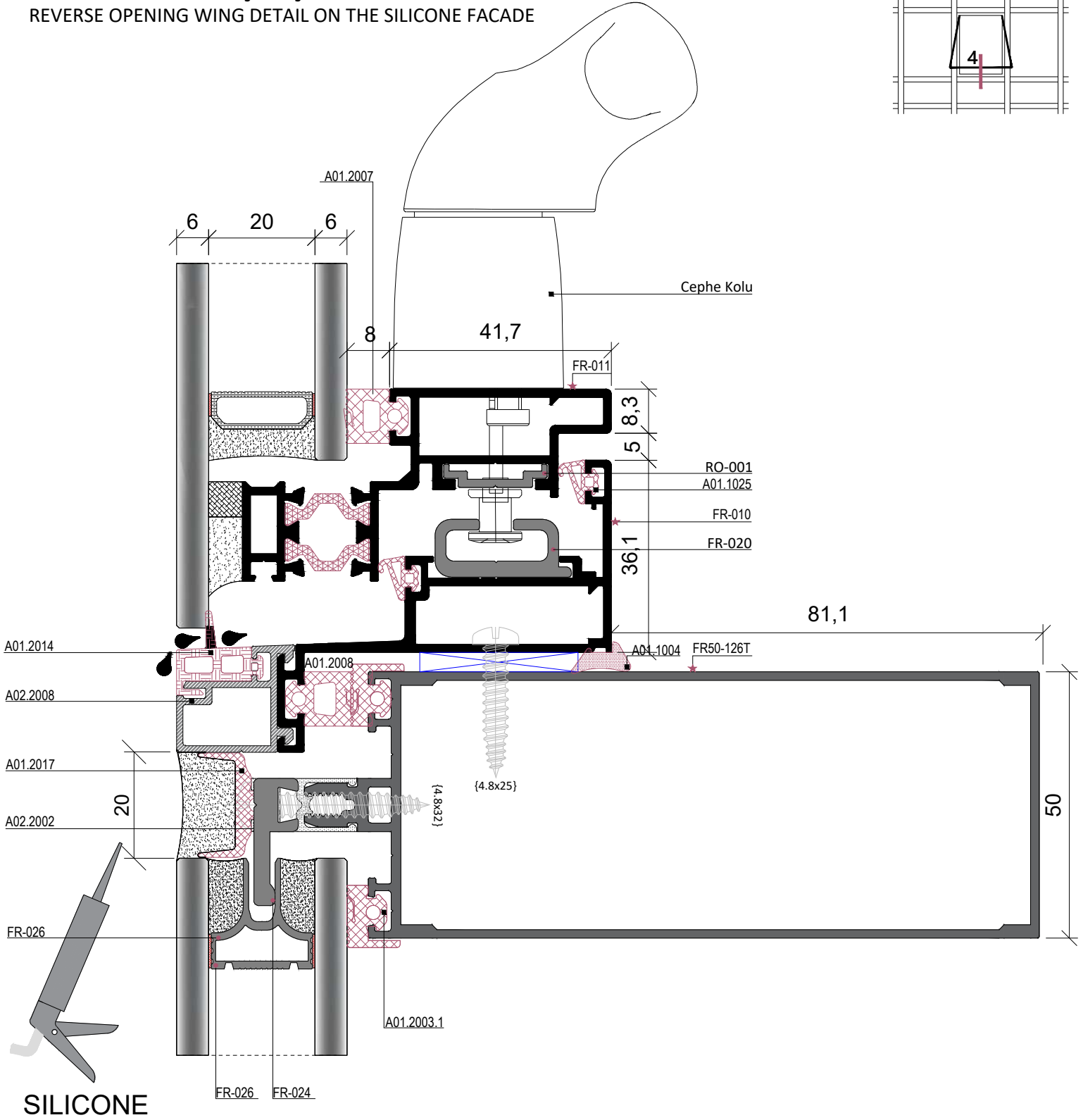
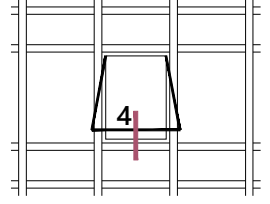
## SİLİKON CEPHEDE DIŞA AÇILIR KANAT DETAYI

### REVERSE OPENING WING DETAIL ON THE SILICONE FACADE





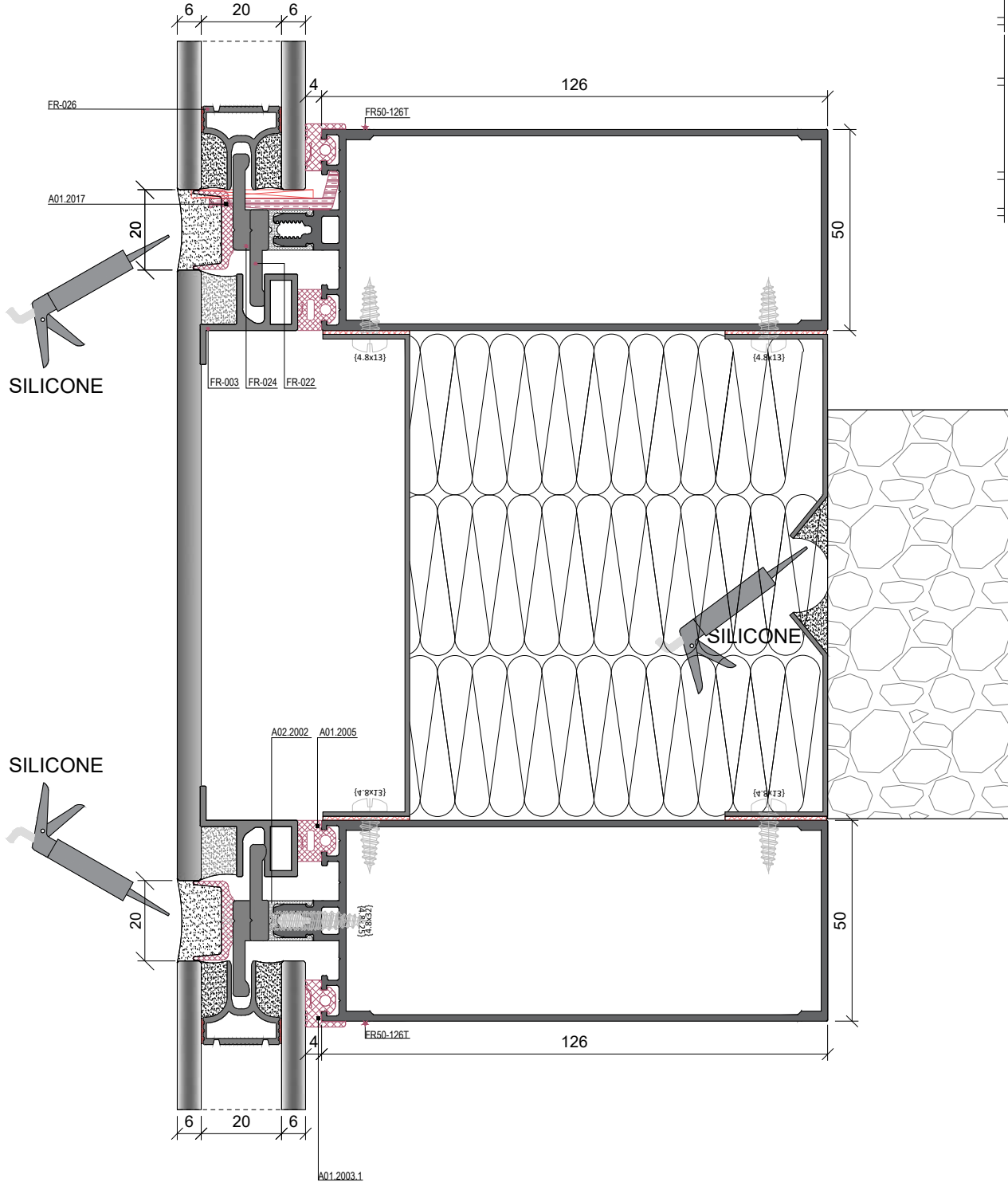
### SİLİKON CEPHEDE DIŞA AÇILIR KANAT DETAYI REVERSE OPENING WING DETAIL ON THE SILICONE FACADE





### SİLİKON CEPHE SPANDREL BÖLGE DETAYI

SILICONE FACADE SPANDREL AREA DETAIL



! ÖLÇEK: 2/3



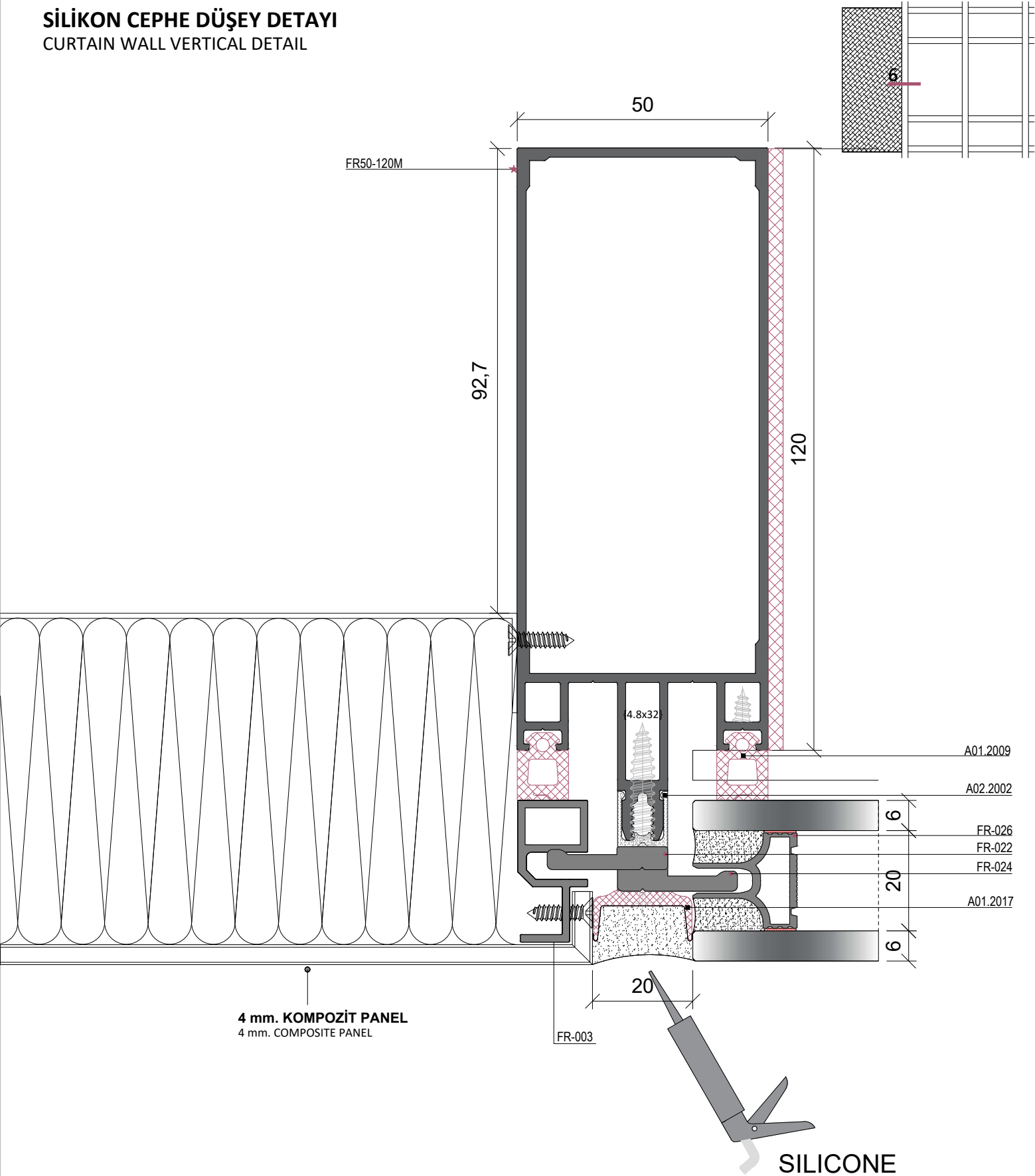
**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Alüminyum.

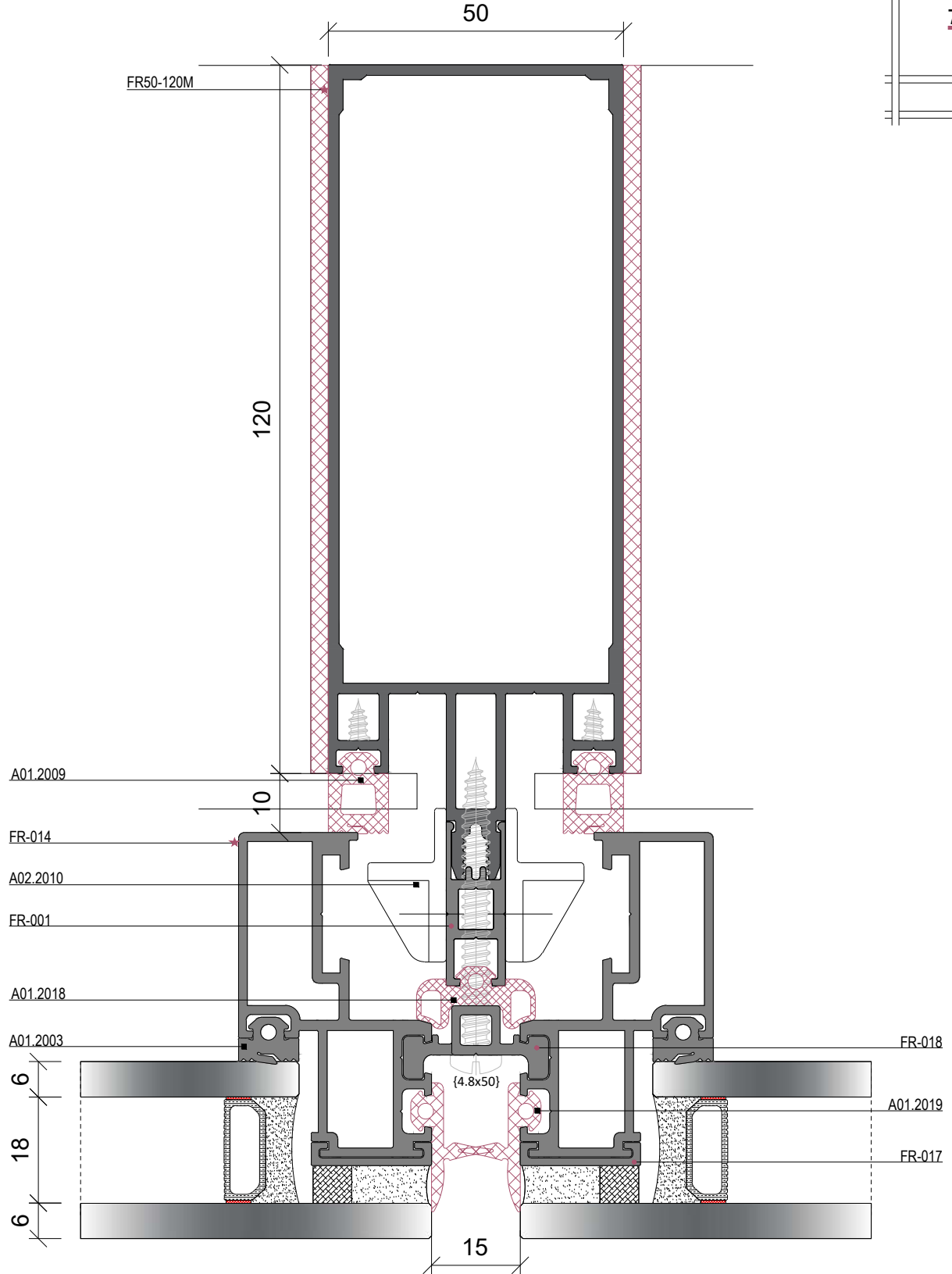


**SİLİKON CEPHE DÜŞEY DETAYI**  
CURTAIN WALL VERTICAL DETAIL



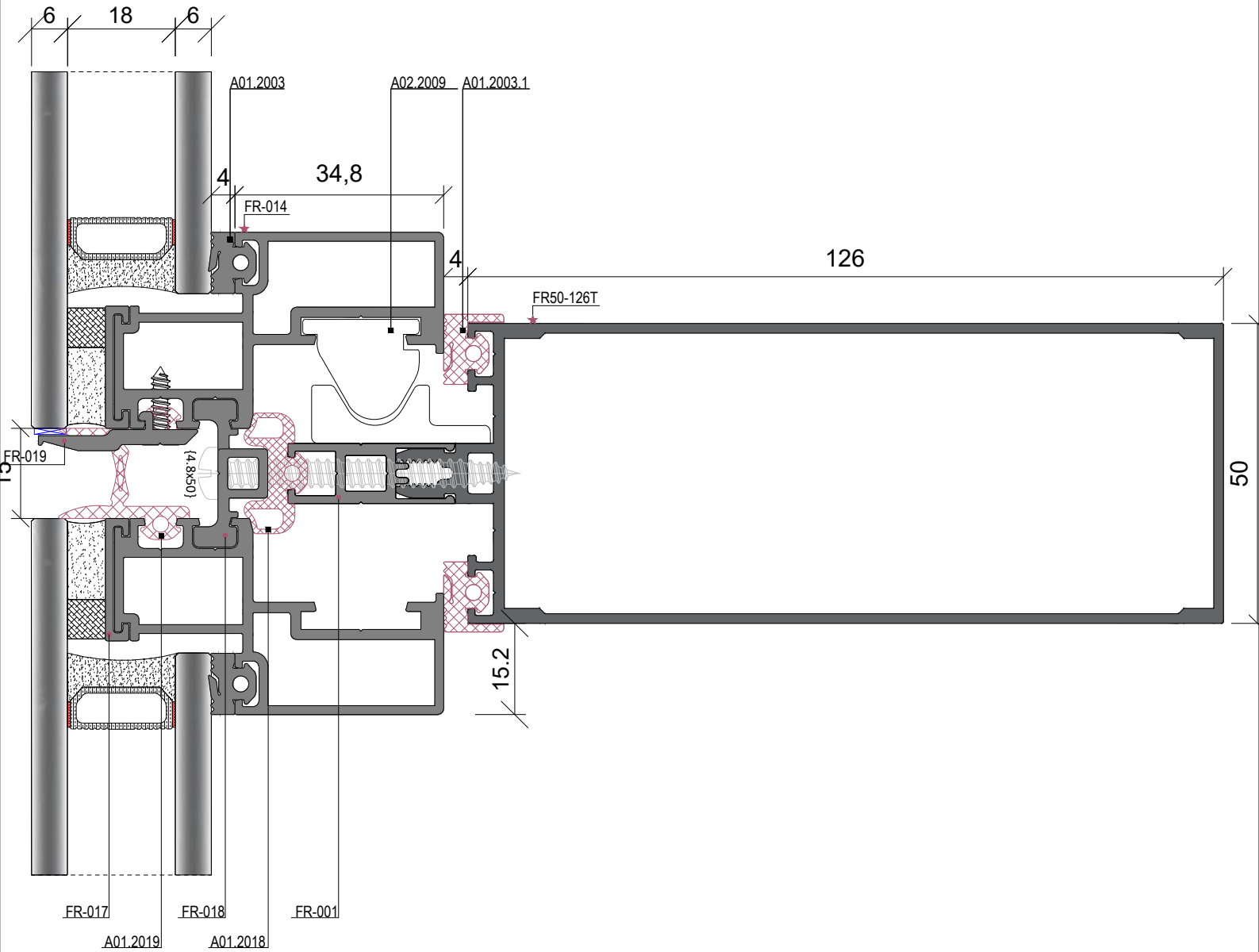
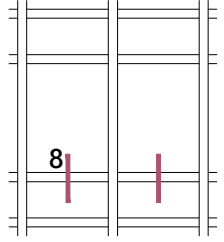


**KASETLİ SİLİKON CEPHE DÜŞEY DETAYI**  
STRUCTURAL CELLS VERTICAL DETAIL



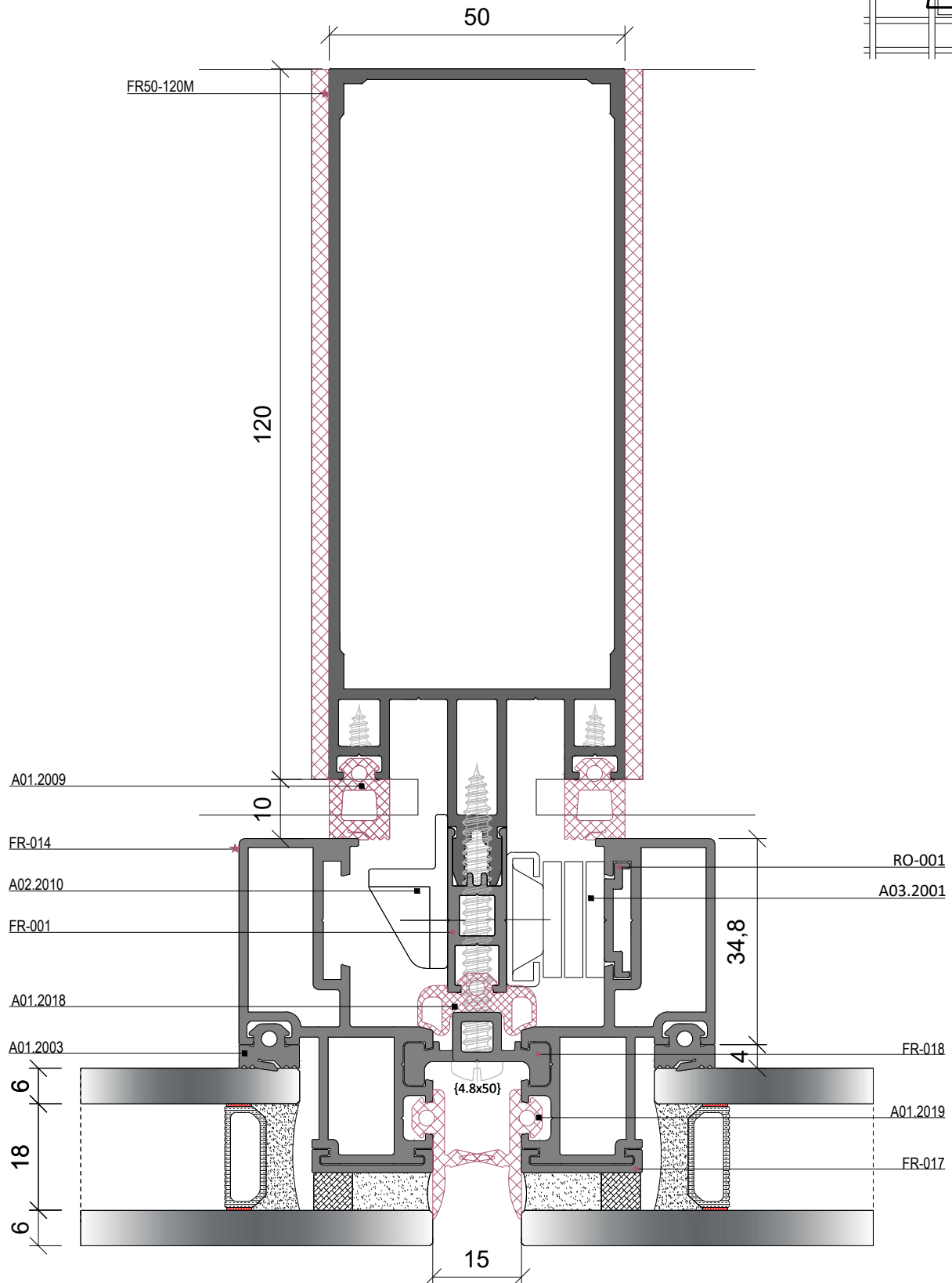


**KASETLİ SİLİKON CEPHE YATAY DETAYI**  
STRUCTURAL CELLS HORIZONTAL DETAIL



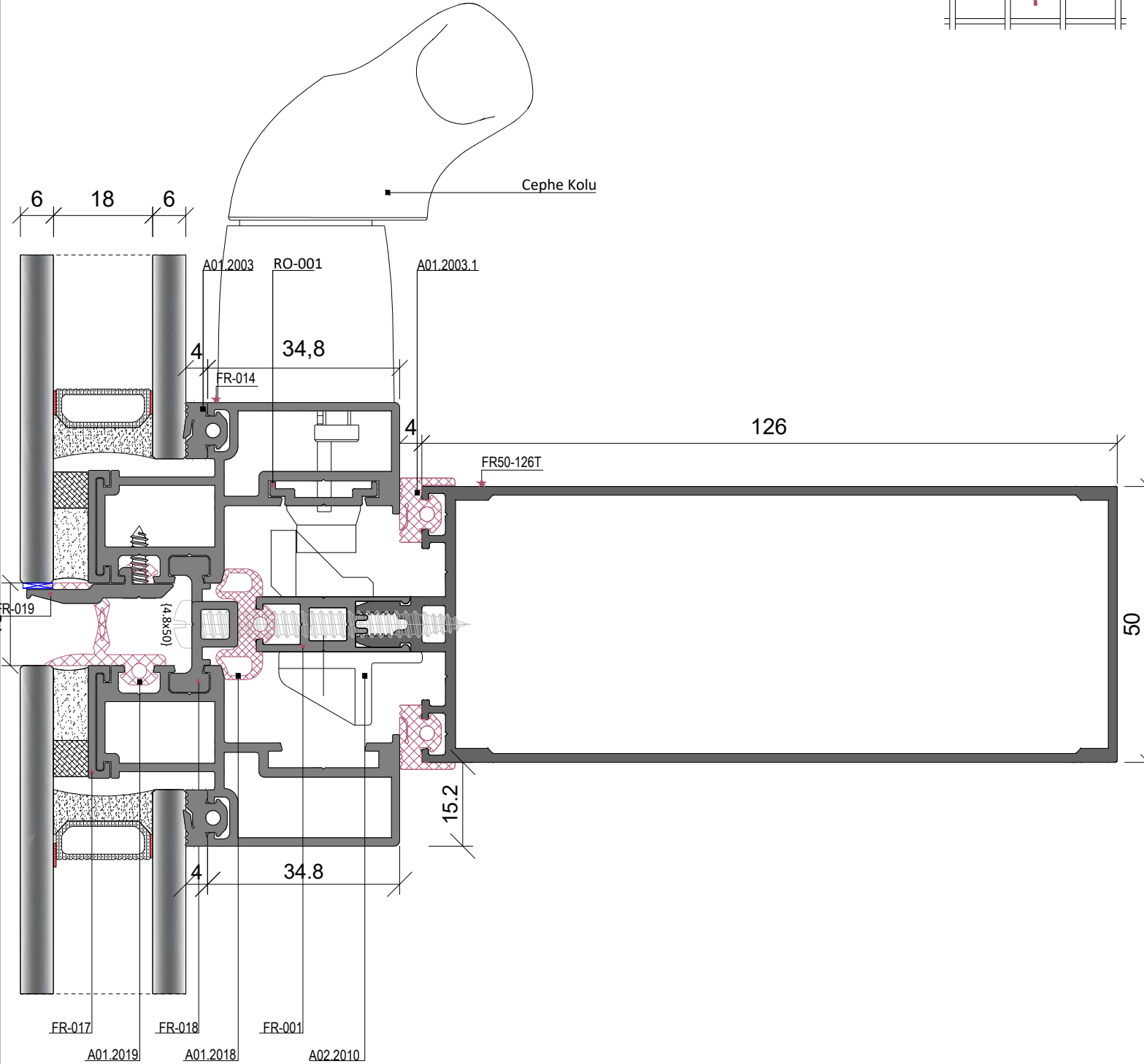
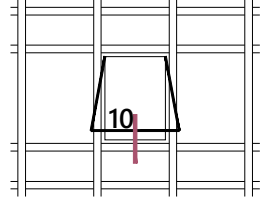
## KASETLİ SİLİKON CEPHE DÜŞEY DETAYI

### STRUCTURAL CELLS VERTICAL DETAIL



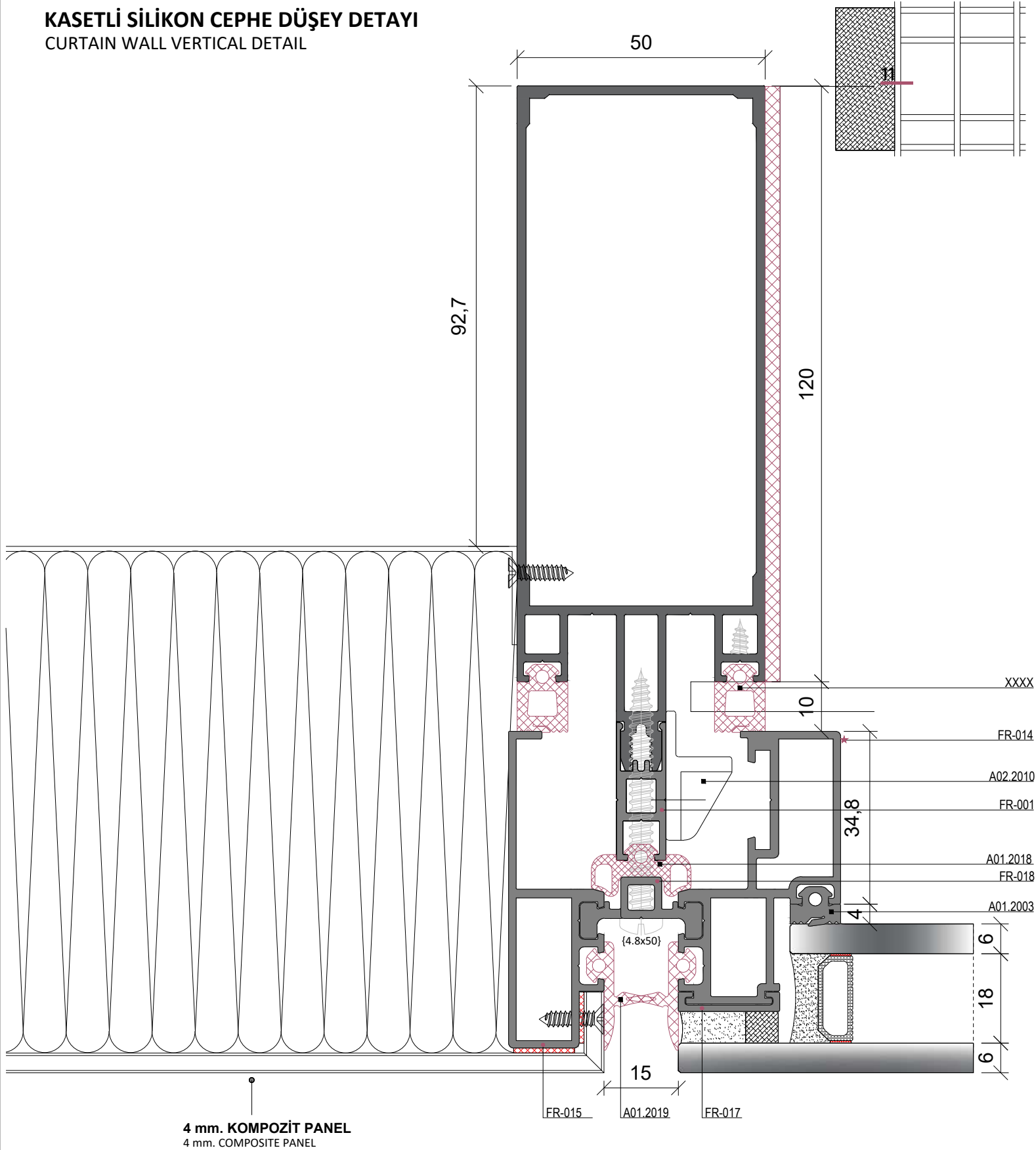


### KASETLİ SİLİKON CEPHE YATAY DETAYI STRUCTURAL CELLS HORIZONTAL DETAIL



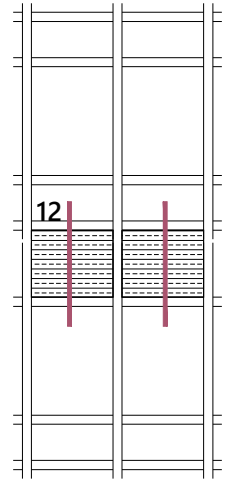
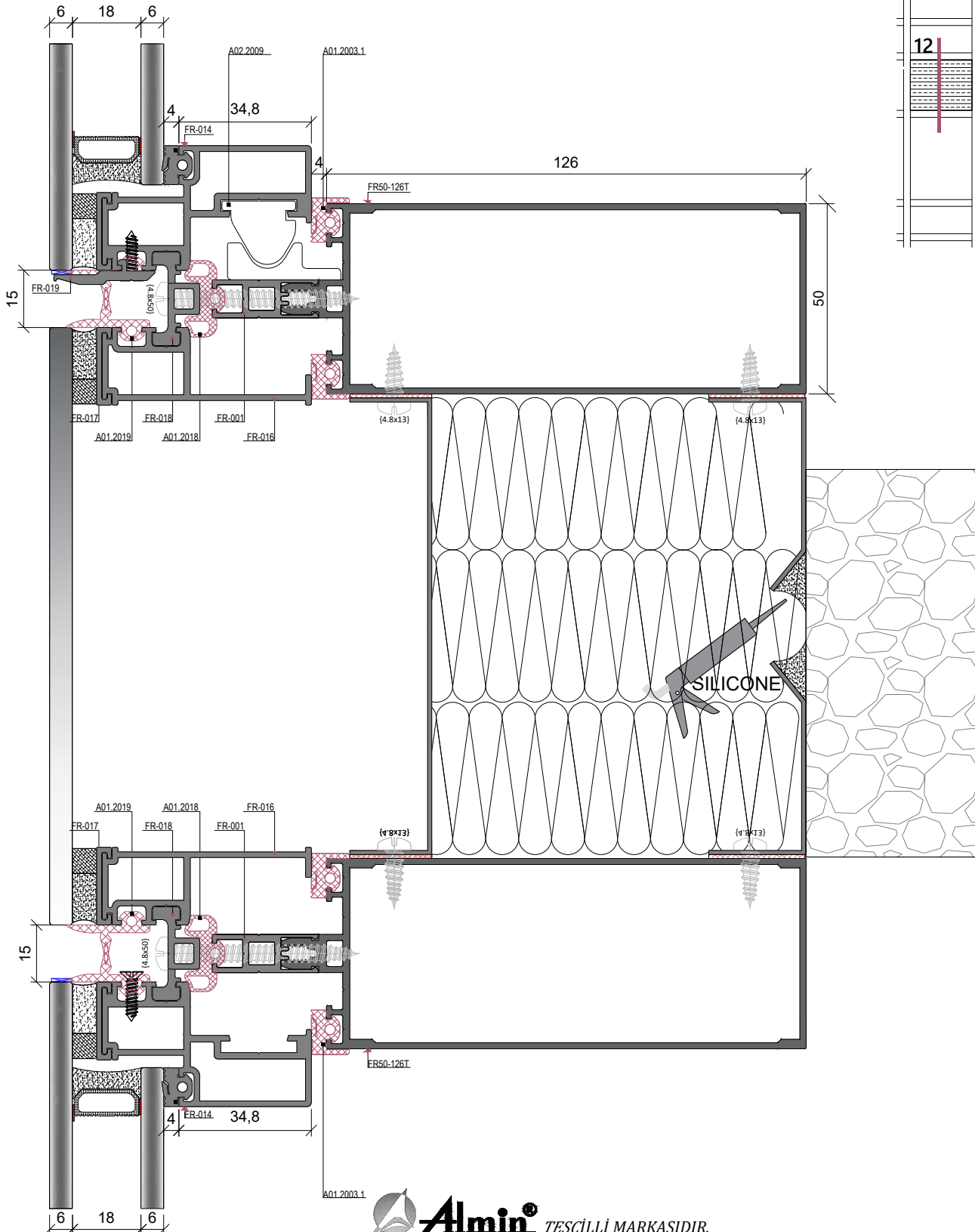


### KASETLİ SİLİKON CEPHE DÜŞEY DETAYI CURTAIN WALL VERTICAL DETAIL



## SİLİKON CEPHE SPANDREL BÖLGE DETAYI

### SILICONE FACADE SPANDREL AREA DETAIL





**ROUTE**  
SYSTEMS

**FR50**

FACADE SYSTEMS

## ATÖLYE MONTAJ DETAYLARI/

*WORKSHOP ASSEMBLY DETAILS*



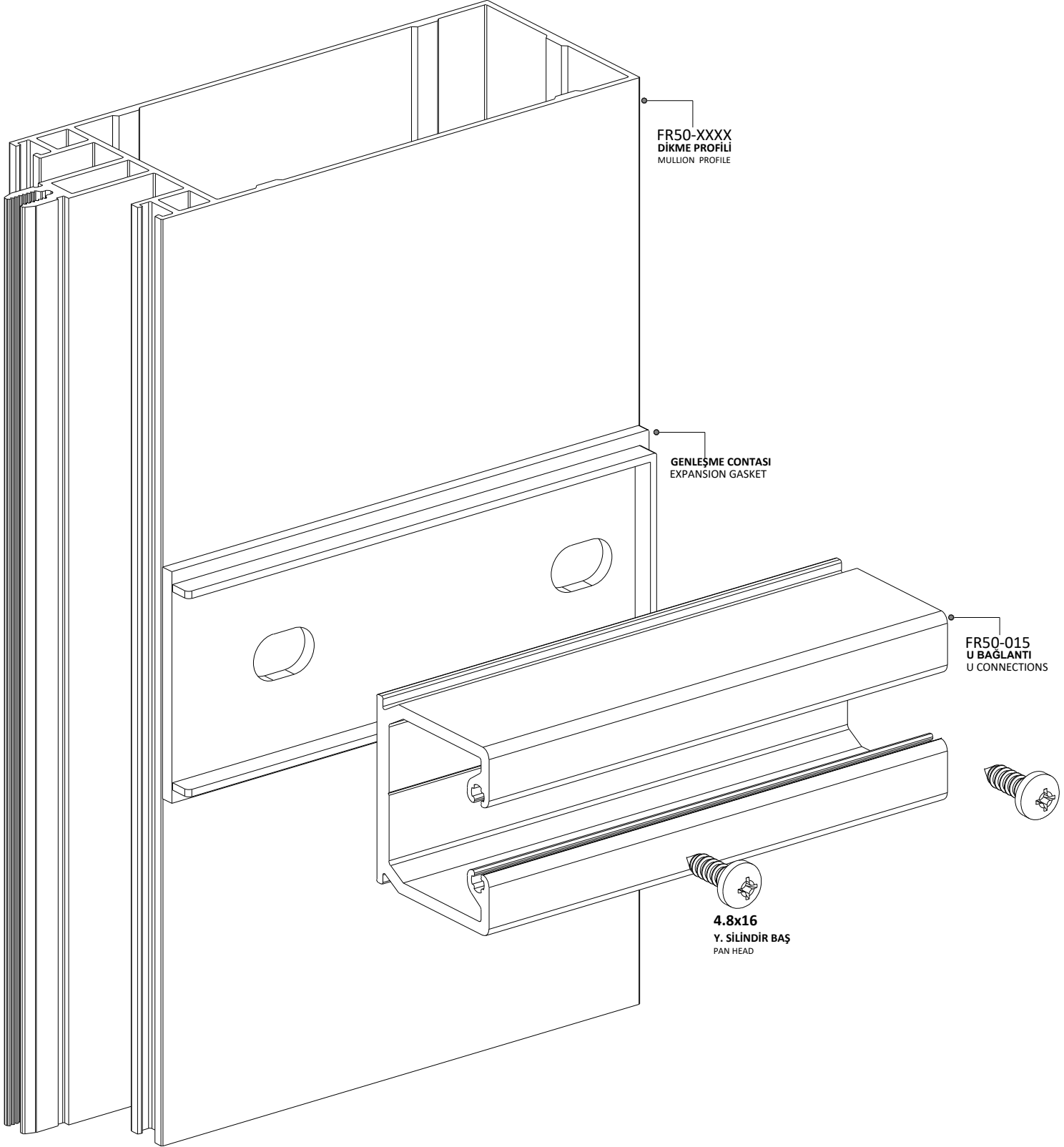
**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.

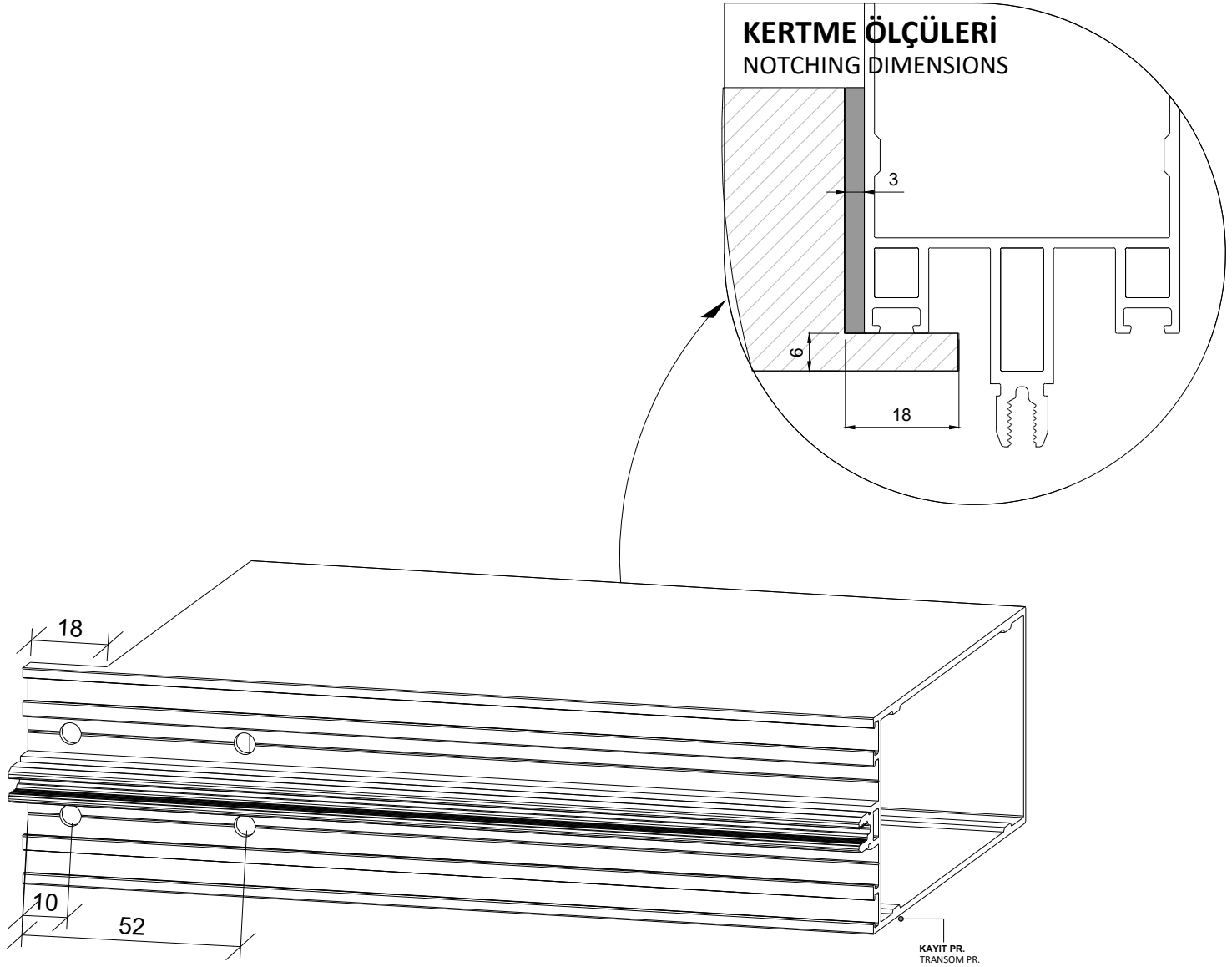


**YATAY KAYIT BAĞLANTI DETAYI / HORIZONTAL RECORD CONNECTION DETAIL**



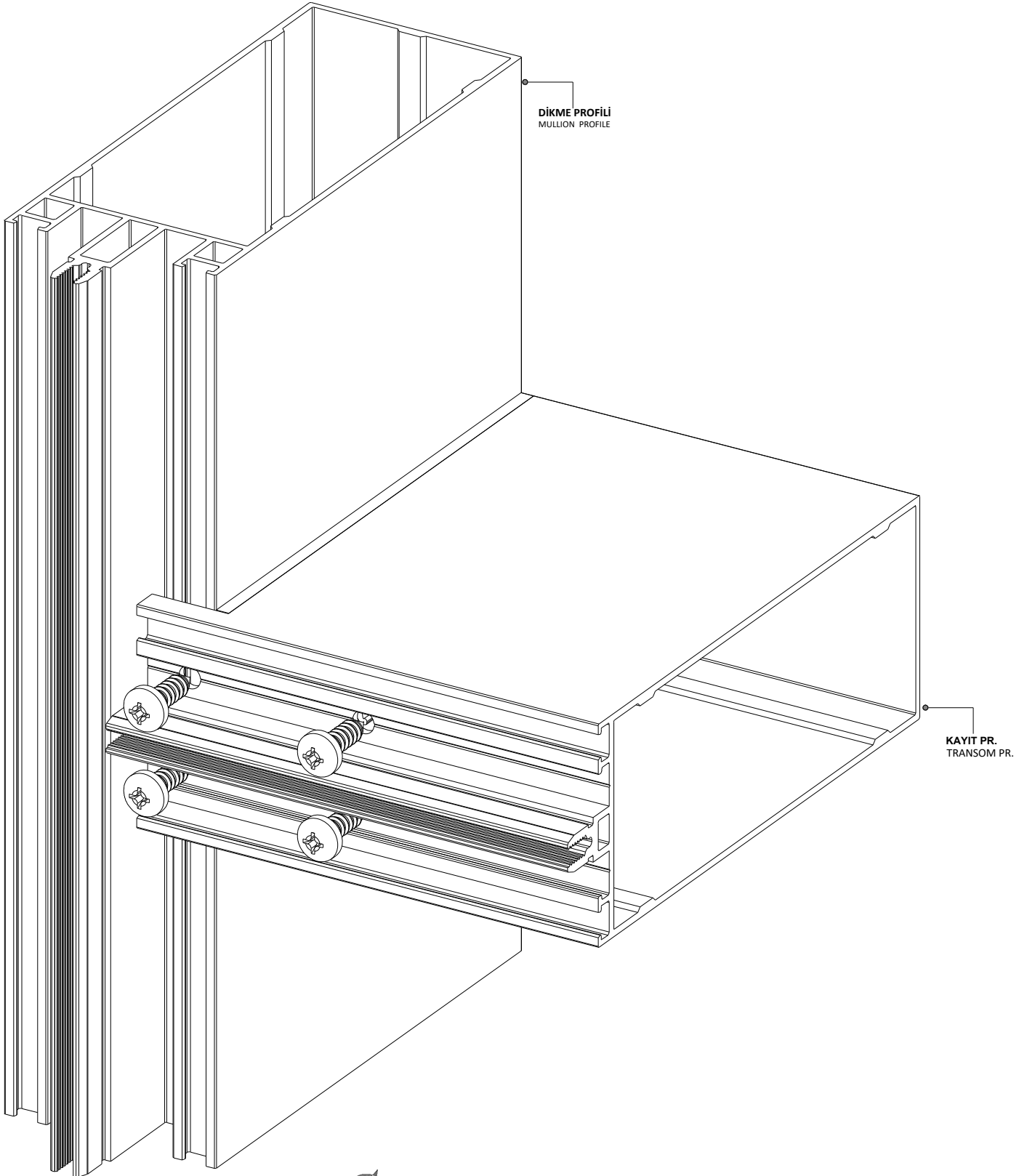


**YATAY KAYIT BAĞLANTI DETAYI / HORIZONTAL RECORD CONNECTION DETAIL**



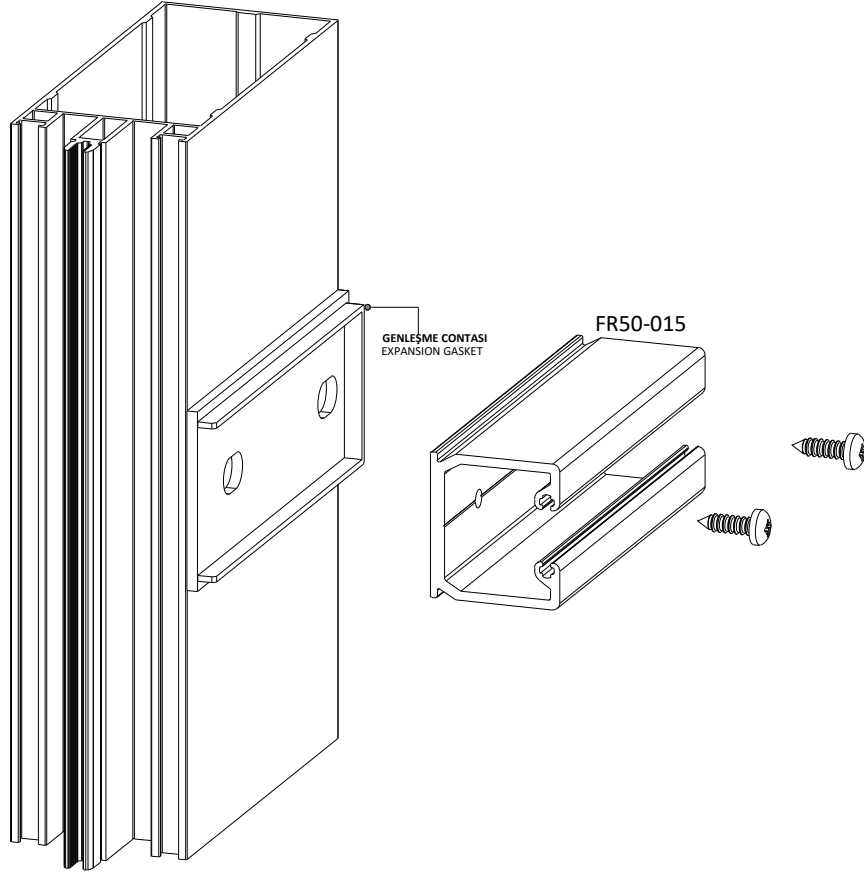


**YATAY KAYIT BAĞLANTI DETAYI / HORIZONTAL RECORD CONNECTION DETAIL**





## GENLEŞME CONTASI / EXPANSION GASKET



## GENLEŞME CONTASI / EXPANSION GASKET

| çizim<br>DRAWING | AKSESUAR KODU<br>ACCESSORY CODE | KULLANILDIĞI PROFİLLER<br>FOR PROFILES | ÖLÇÜSÜ<br>DIMENSION |
|------------------|---------------------------------|----------------------------------------|---------------------|
|                  | A02.2011                        | FR50-56T                               | 50 mm               |
|                  | A02.2012                        | FR50-66T                               | 60 mm               |
|                  | A02.2013                        | FR50-86T                               | 80 mm               |
|                  | A02.2014                        | FR50-106T                              | 100 mm              |
|                  | A02.2015                        | FR50-126T                              | 120 mm              |
|                  | A02.2016                        | FR50-136T                              | 130 mm              |
|                  | A02.2017                        | FR50-146T                              | 140 mm              |
|                  | A02.2018                        | FR50-156T                              | 150 mm              |
|                  | A02.2019                        | FR50-166T                              | 160 mm              |
|                  | A02.2020                        | FR50-186T                              | 180 mm              |
|                  | A02.2021                        | FR50-206T                              | 200 mm              |
|                  | A02.2022                        | FR50-226T                              | 220 mm              |





### YÜK ALICI PROFİL DETAYI / LOAD RECEIVER PEOFIL DETAIL

#### CAM ALTI DESTEK PARÇASI - 5

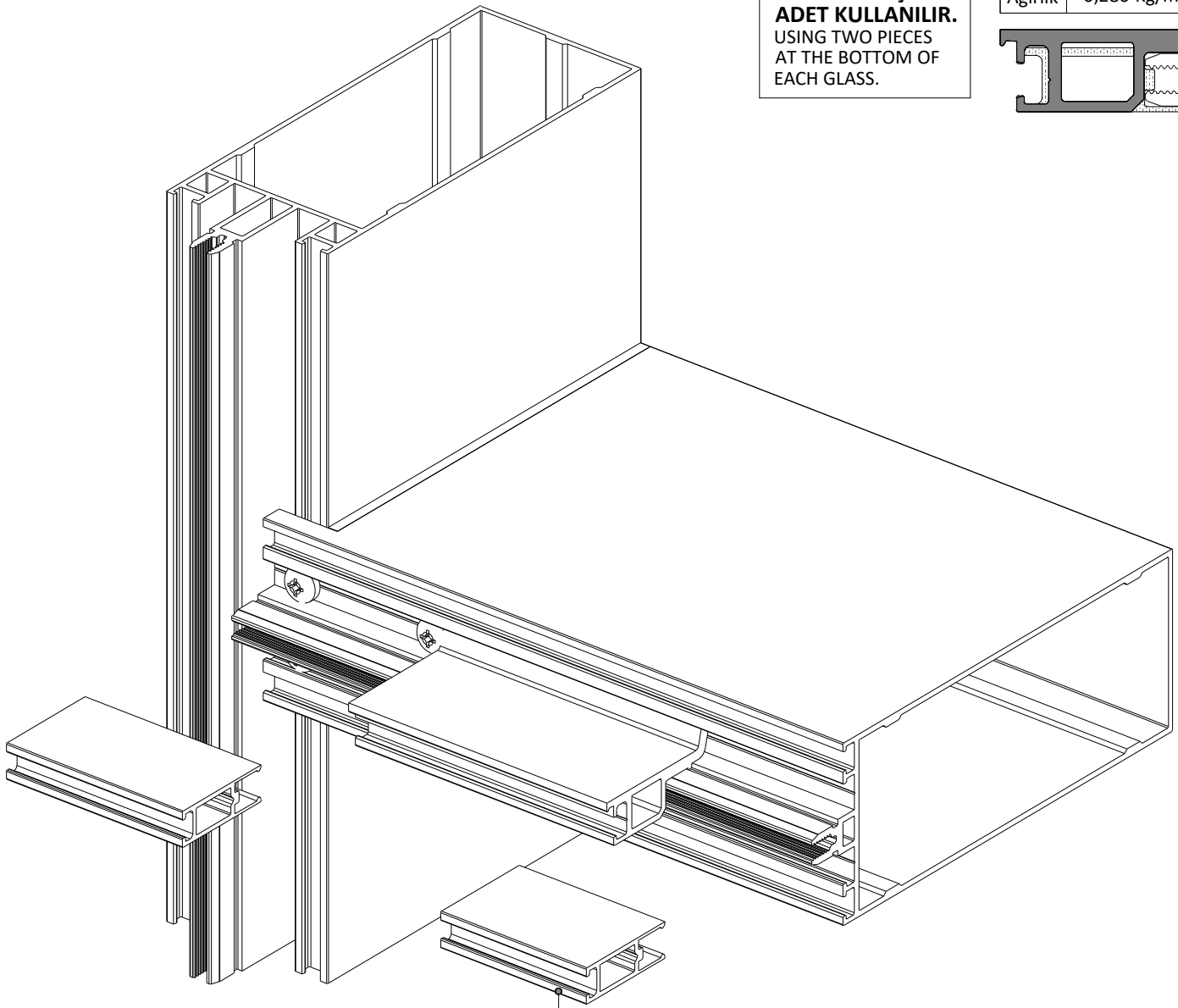
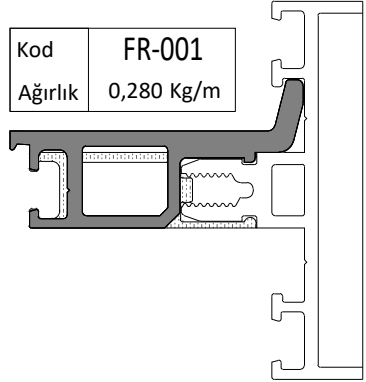
GLAZING SUPPORT - 5

(30mm ile 40mm arası cam kalınlıklarında

kullanılır. / Using with 30mm to 40mm glass thicknesses.)

**HER CAMIN  
ALTINDA İKİŞER  
ADET KULLANILIR.**  
USING TWO PIECES  
AT THE BOTTOM OF  
EACH GLASS.

|         |            |
|---------|------------|
| Kod     | FR-001     |
| Ağırlık | 0,280 Kg/m |



**DESTEK PARÇASININ OLDUĞU BÖLGELERDE  
ISI BARIYERLERİ AYRI AYRI TAKILMALIDIR.**  
INSULATION BARS SHOULD BE INSTALLED PIECES  
SEPARATELY AROUND THE GLAZING SUPPORTS.



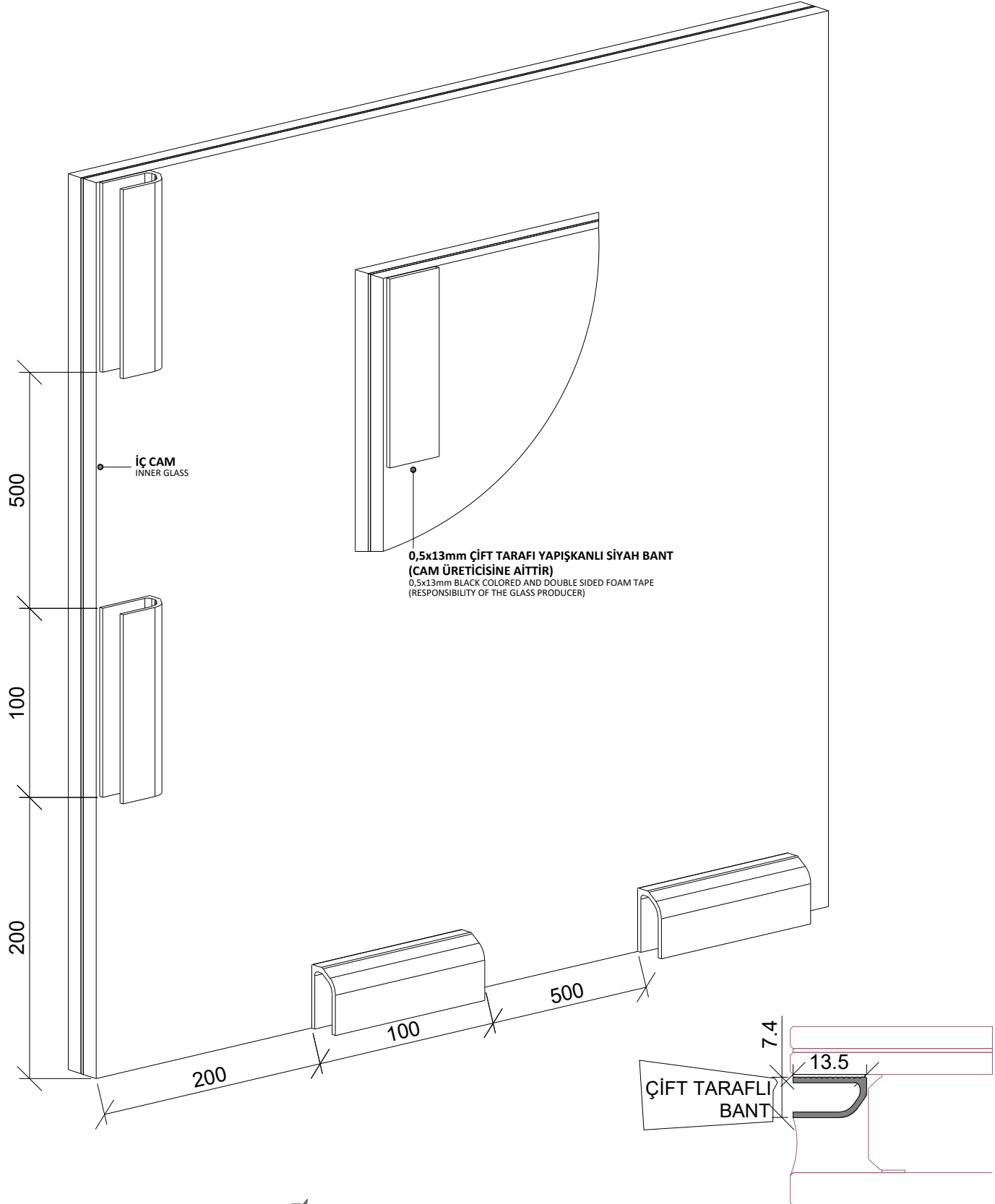
**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.



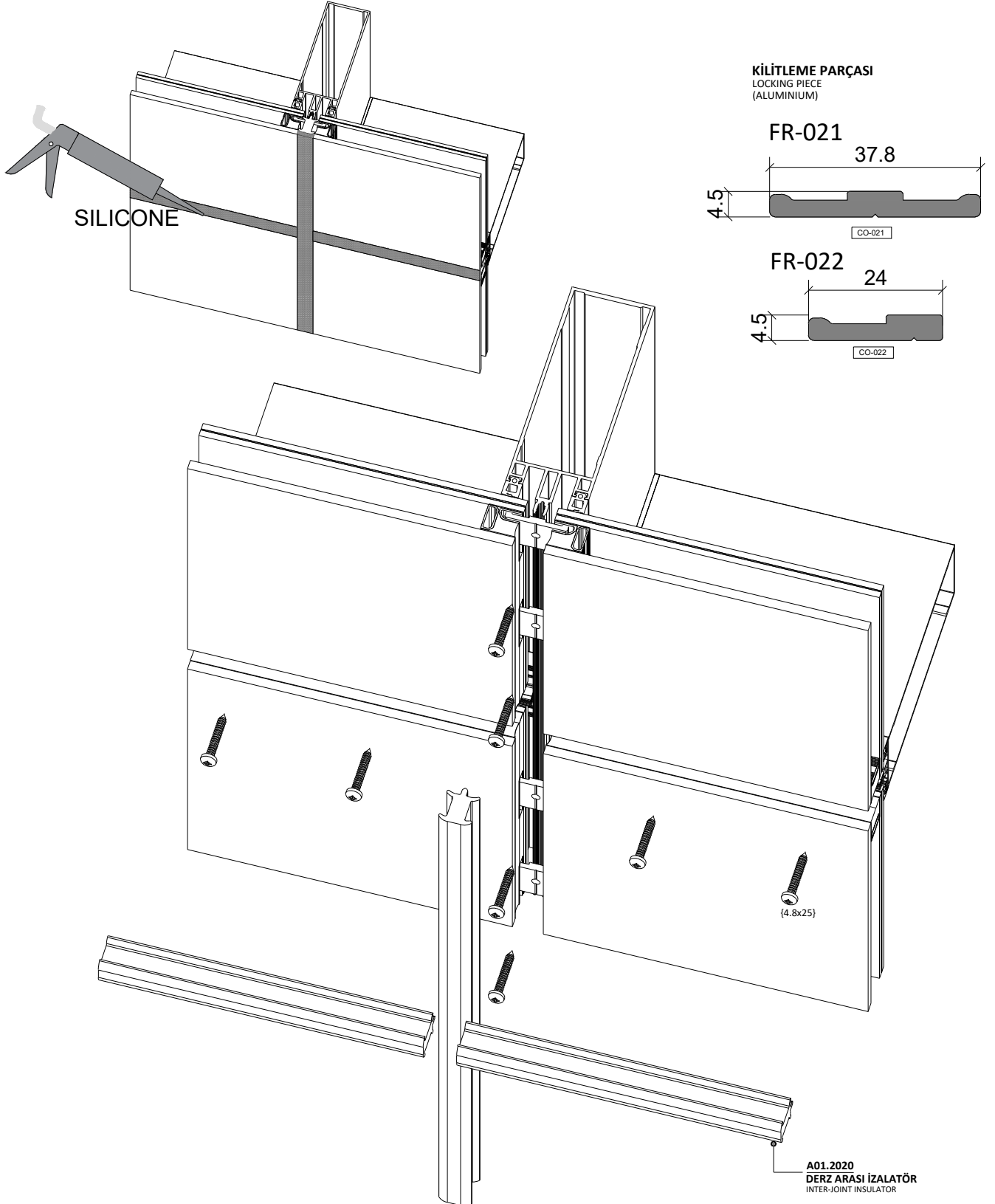
### FR-027 WARM EDGE ISICAM ÇİTASI DETAYI/ SCORNER CONNECTION FOR WARM EDGE SPACER DETAILS





### SİLİKON CEPHE UYGULAMA DETAYLARI/

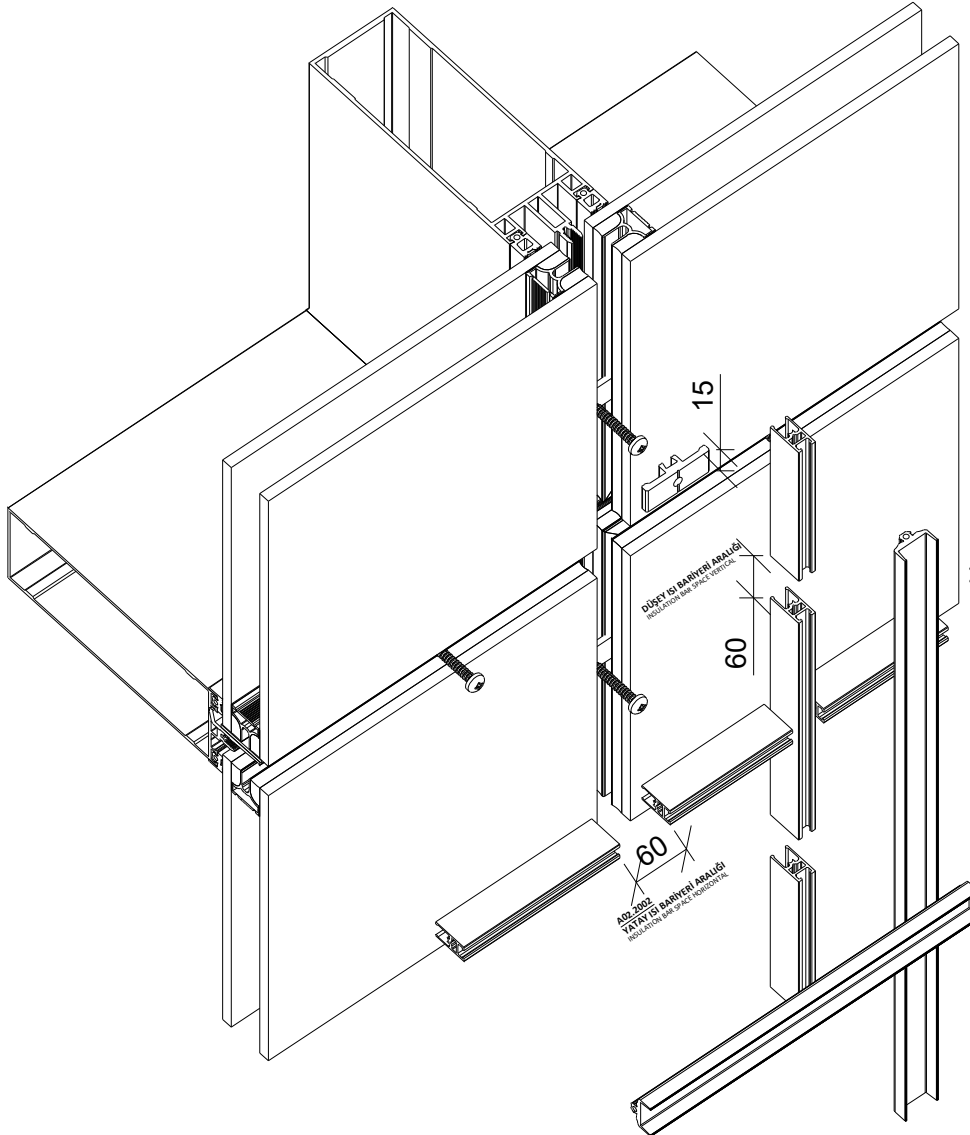
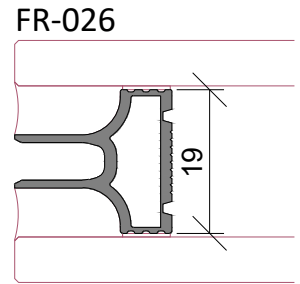
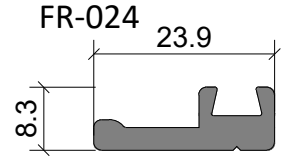
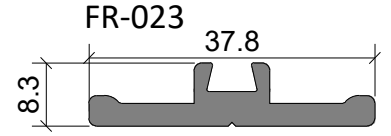
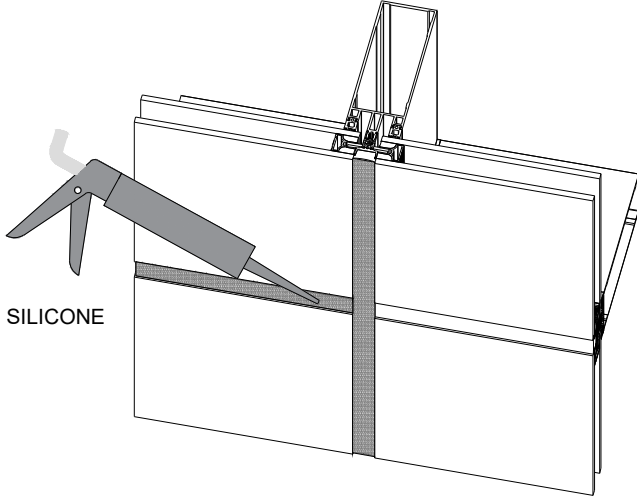
#### SILICONE FACADE APPLICATION DETAILS



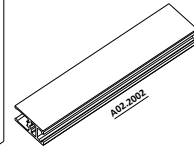


### SİLİKON CEPHE UYGULAMA DETAYLARI/

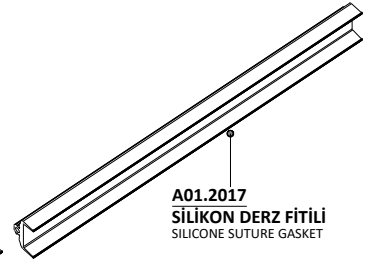
SILICONE FACADE APPLICATION DETAILS



KİTLEME PARÇALARININ  
BULUNDUĞU BÖLGELERDE  
ISI BARİYERİ KULLANILMAZ.  
INSULATION BAR SHOULD NOT BE  
USED AT THE LOCKING PIECE'S AREA.



A01.2017  
SİLİKON DERZ FİTİLİ  
SILICONE SUTURE GASKET



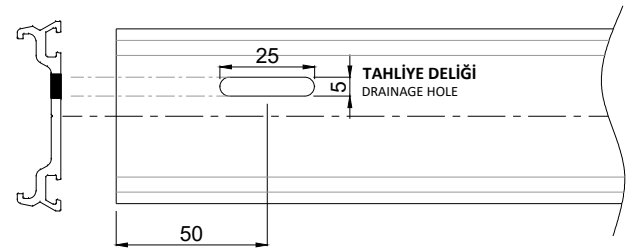
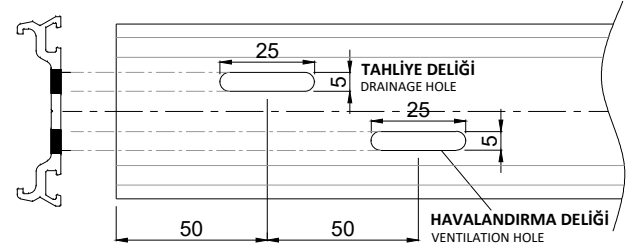
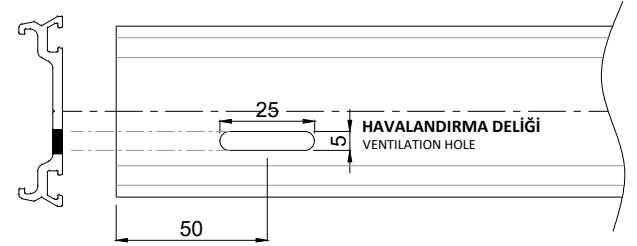
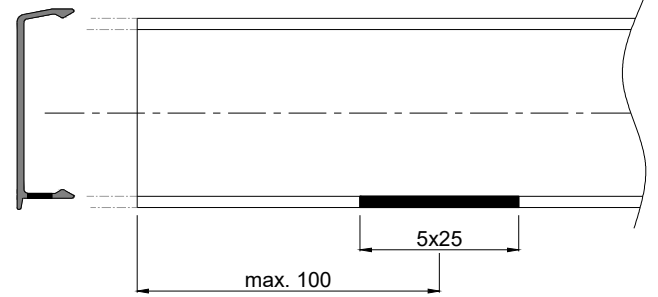
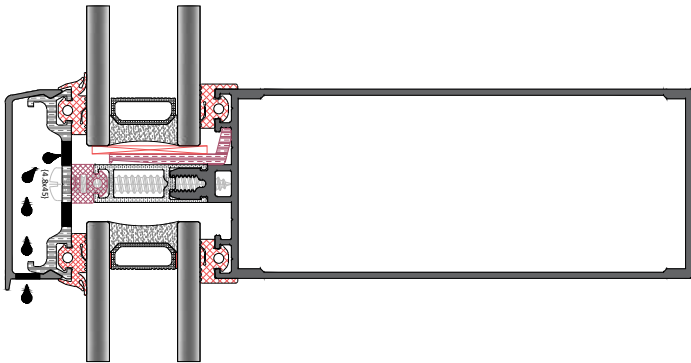
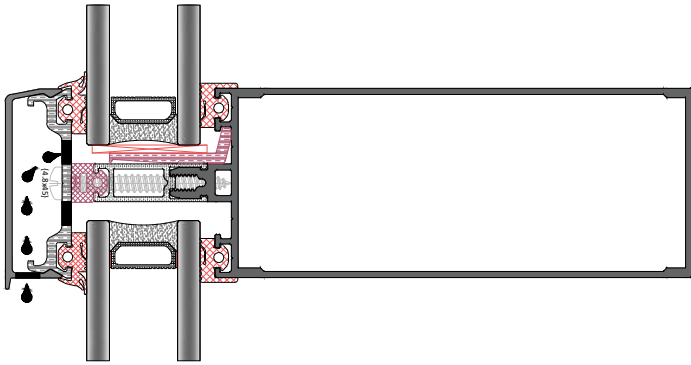
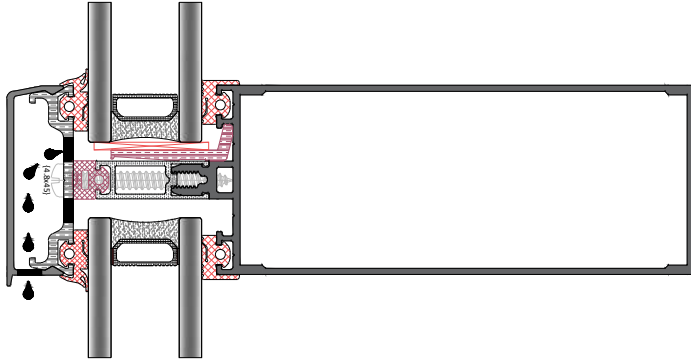
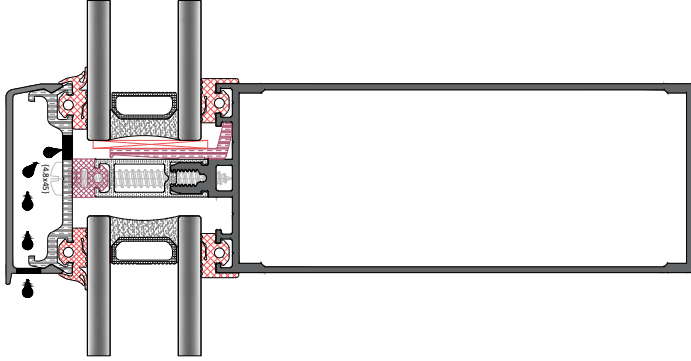
**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Alüminium.



### TAHLİYE DELİK ŞEMALARI/ SCHEMAS OF THE DRAINAGE HOLES



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

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

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

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



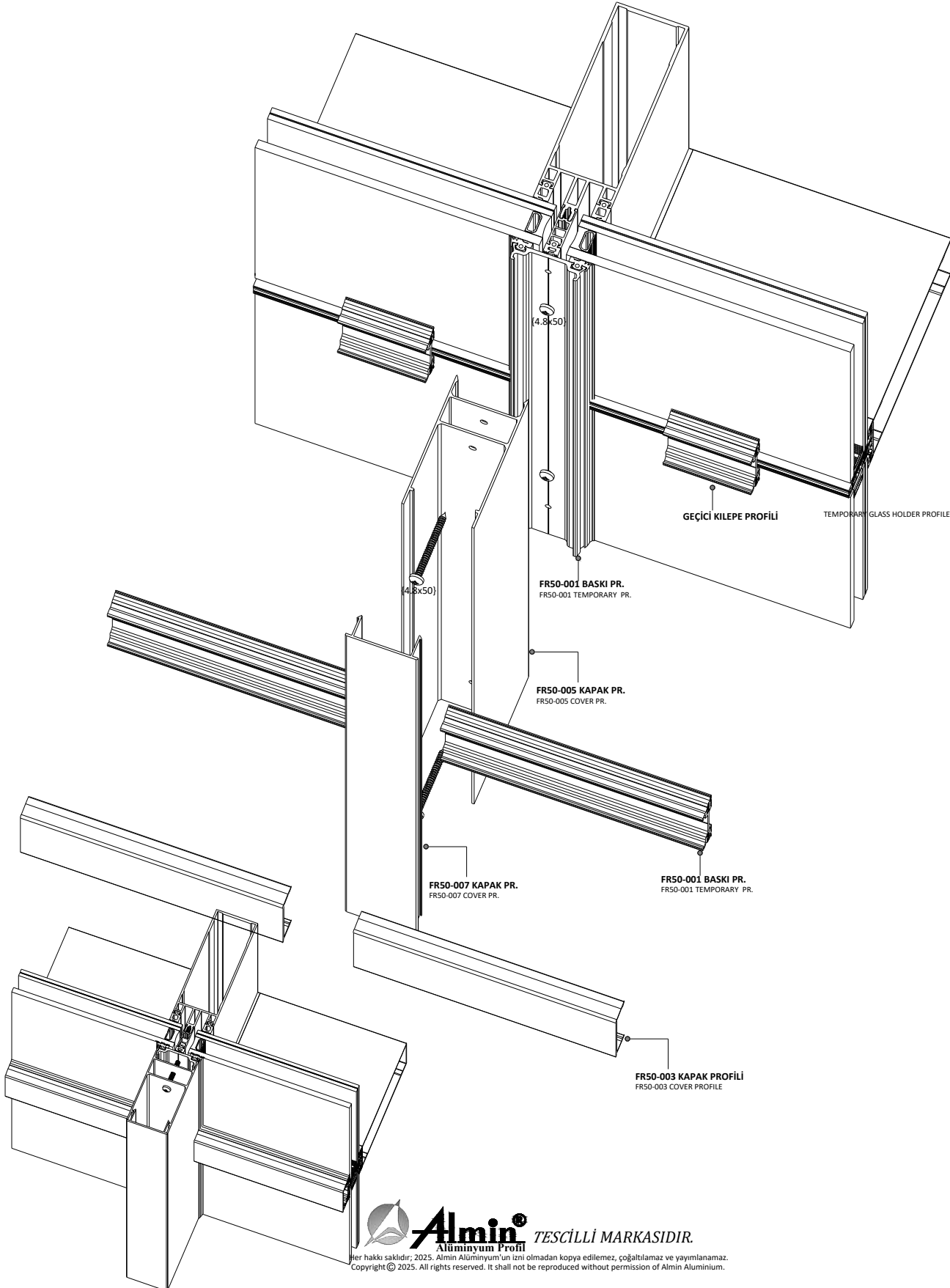
**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.

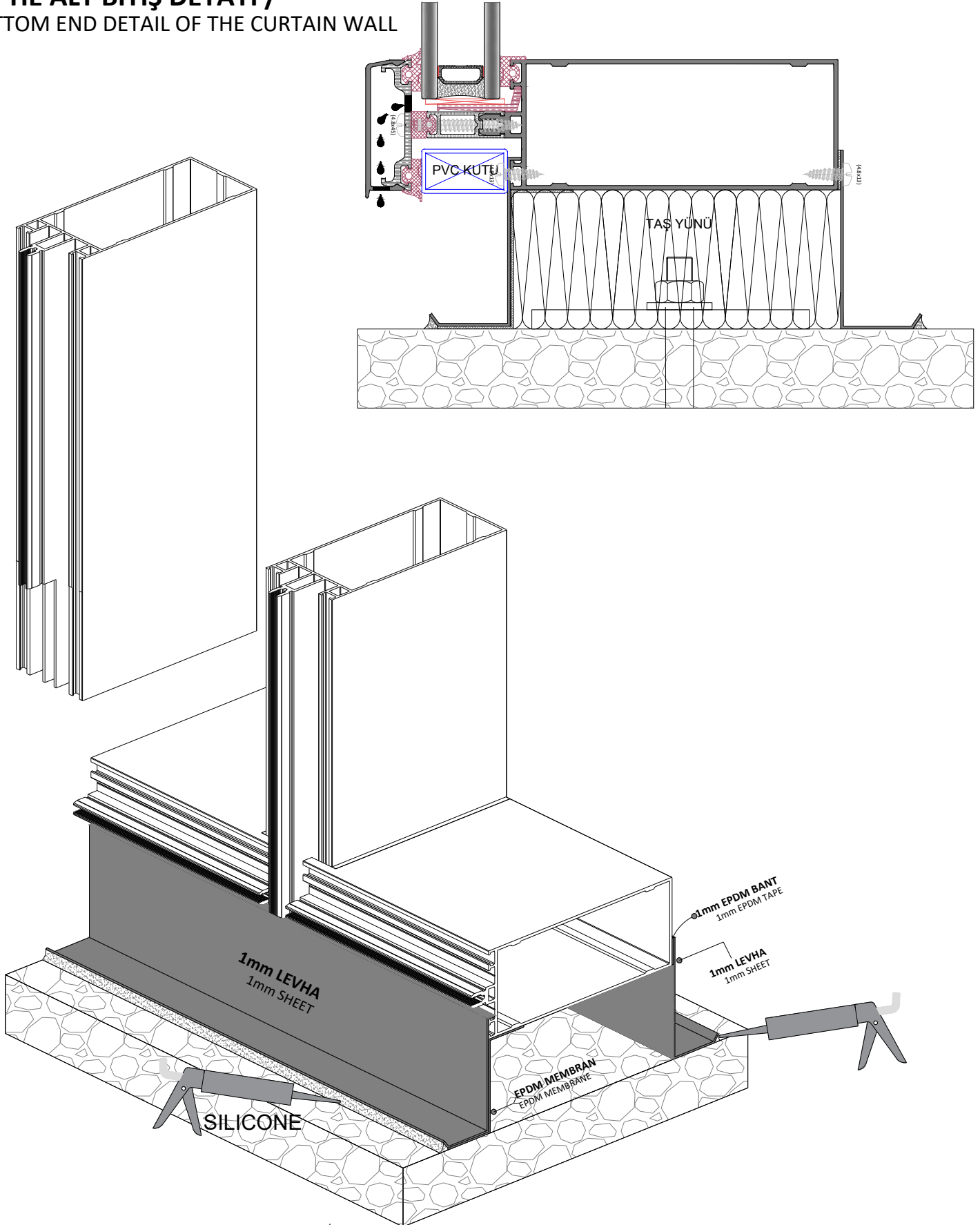


### KAPAK MONTAJ DETAYI / COVER MOUNTING DETAIL

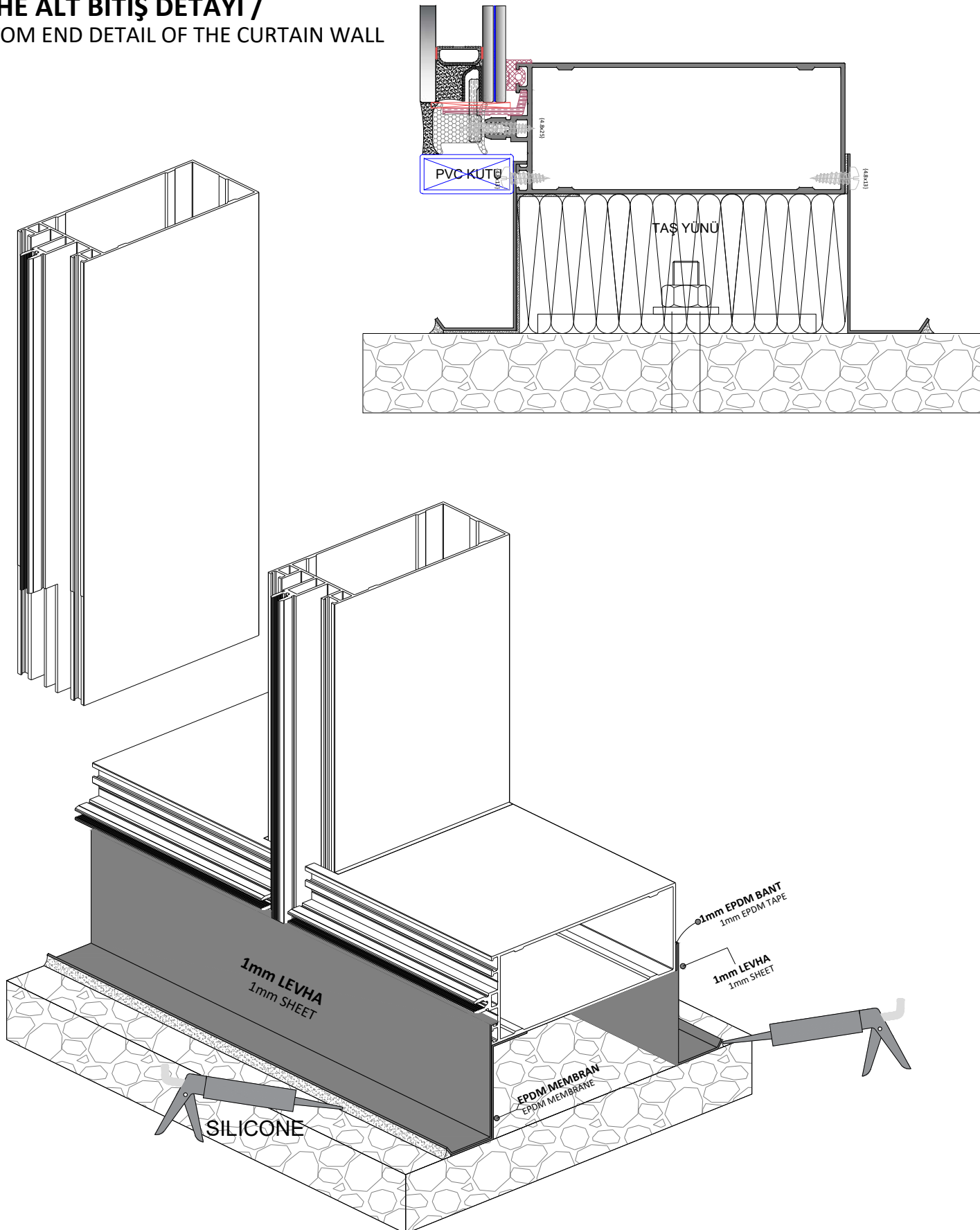




**CEPHE ALT BİTİŞ DETAYI /**  
BOTTOM END DETAIL OF THE CURTAIN WALL

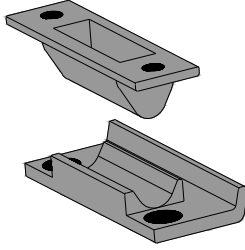


## CEPHE ALT BİTİŞ DETAYI / BOTTOM END DETAIL OF THE CURTAIN WALL

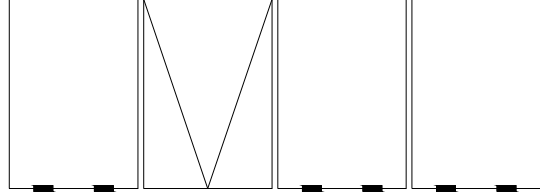




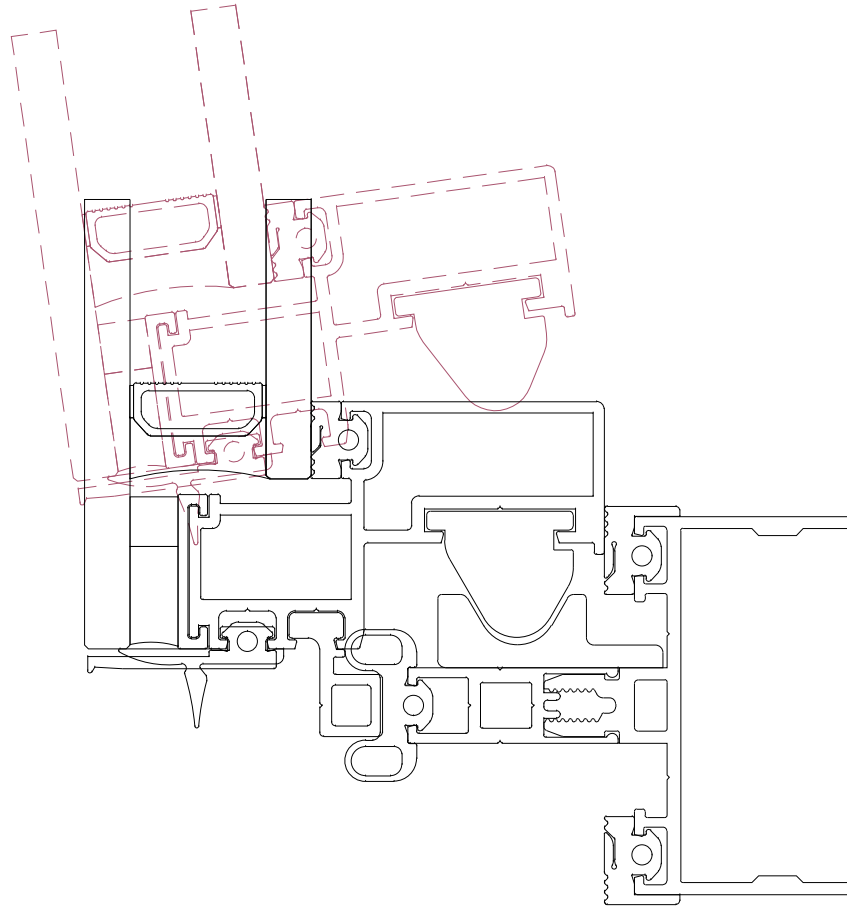
### A02.2009 SET MESAFE BELİRLEYİCİ SABİTLEME PARÇASI / SPACER FOR STRUCTURAL CELLS



**A02.2009 SET**  
**MESAFE BELİRLEYİCİ SABİTLEME PARÇASI**  
SPACER FOR STRUCTURAL CELLS

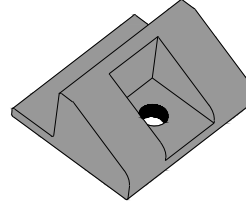


**TÜM SABİT KASETLERİN ALTINDA İKİŞER ADET KULLANILIR.**  
**(AÇILIR KANATLARDA KULLANILMAZ.)**  
USING TWO PIECES AT THE BOTTOM OF ALL FIXED STRUCTURAL  
CELLS. (DO NOT USE WITH OPENING VENTS.)

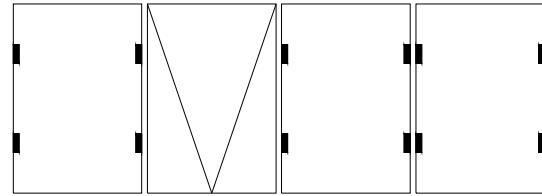
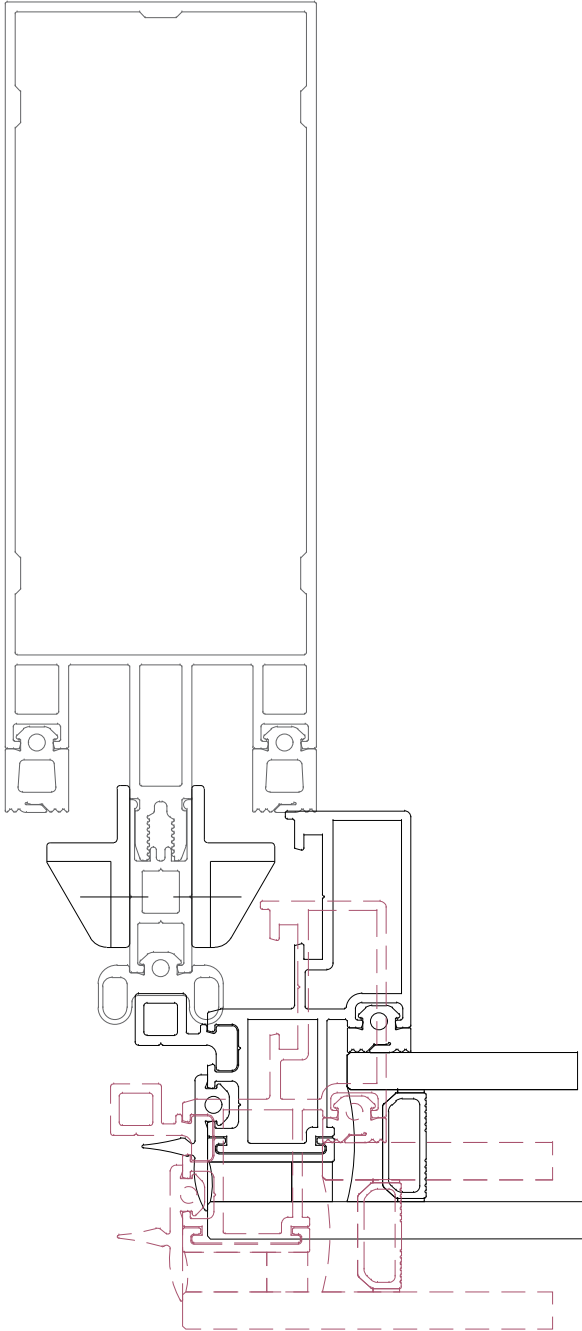




### A02.2010 ADET KASET HİZALAMA PARÇASI / ALIGNMENT PIECE FOR STRUCTURAL CELLS



#### A02.2010 ADET KASET HİZALAMA PARÇASI ALIGNMENT PIECE FOR STRUCTURAL CELLS



**BU AKSESUAR SADECE SABİT KASETLERDE UYGULANIR.  
(AÇILIR KANATLARDA KULLANILMAZ.)**  
IMPORTANT: THIS ACCESSORY USING ONLY WITH FIXED  
STRUCTURAL CELLS. (DO NOT USE WITH OPENING VENTS)

**Her sabit kaset için ikisi sağda  
ikisi solda olmak üzere toplam  
4 adet kullanılmalıdır.**  
Should be used 4 pieces for each  
fixed vent, as two of them at the  
right side and two at the left.





**ROUTE**  
SYSTEMS

**FR50**

FACADE SYSTEMS

## AKSESUAR LİSTESİ /

*ACCESSORY LIST*

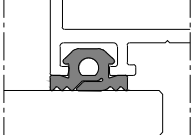
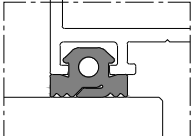
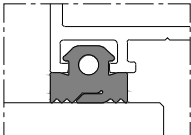
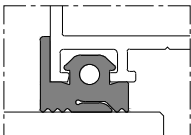
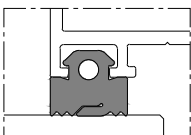
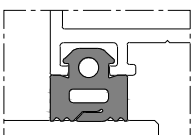
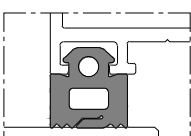


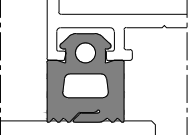
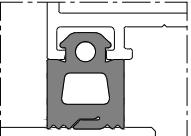
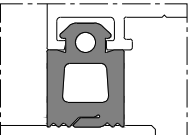
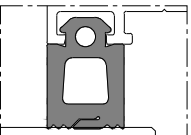
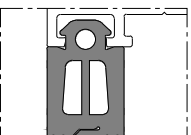
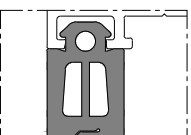
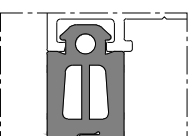
**Almin®**  
Alüminyum Profil

TESCİLLİ MARKASIDIR.

Her hakkı saklıdır; 2025. Almin Alüminyum'un izni olmadan kopya edilemez, çoğaltılamaz ve yayımlanamaz.  
Copyright © 2025. All rights reserved. It shall not be reproduced without permission of Almin Aluminium.

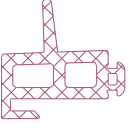
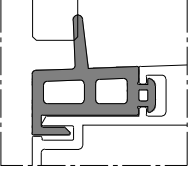
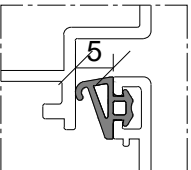
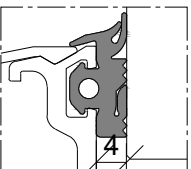
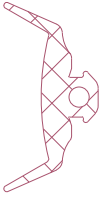
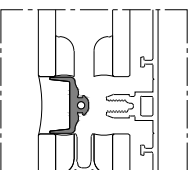
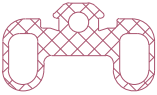
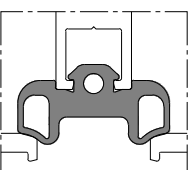
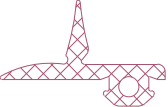
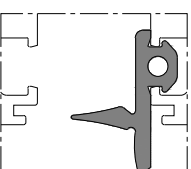
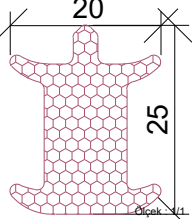
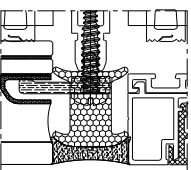


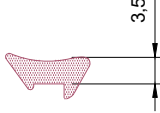
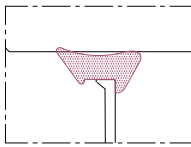
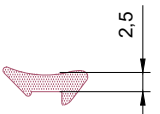
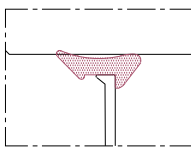
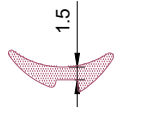
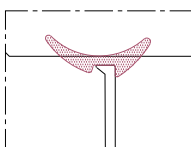
| ÇİZİM / DRAWING                                                                                    | ÜRÜN BİLGİLERİ/<br>PRODUCT DESCRIPTION                                                              | TAKILMA BÖLGESİ /<br>APPLICATION AREA                                               |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <br>Ölçek : 1/1   | <b>A01.2001</b><br>2 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 41 gr/m   |    |
| <br>Ölçek : 1/1   | <b>A01.2002</b><br>3 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 53 gr/m   |    |
| <br>Ölçek : 1/1   | <b>A01.2003</b><br>4 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 67 gr/m   |   |
| <br>Ölçek : 1/1 | <b>A01.2003.1</b><br>4 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 83 gr/m |  |
| <br>Ölçek : 1/1 | <b>A01.2004</b><br>5 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 81 gr/m   |  |
| <br>Ölçek : 1/1 | <b>A01.2005</b><br>6 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 83 gr/m   |  |
| <br>Ölçek : 1/1 | <b>A01.2006</b><br>7 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 89 gr/m   |  |

| ÇİZİM / DRAWING                                                                                    | ÜRÜN BİLGİLERİ/<br>PRODUCT DESCRIPTION                                                              | TAKILMA BÖLGESİ /<br>APPLICATION AREA                                                 |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <br>Ölçek : 1/1   | <b>A01.2007</b><br>8 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 99 gr/m   |    |
| <br>Ölçek : 1/1   | <b>A01.2008</b><br>9 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 102 gr/m  |    |
| <br>Ölçek : 1/1  | <b>A01.2009</b><br>10 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 110 gr/m |   |
| <br>Ölçek : 1/1 | <b>A01.2010</b><br>11 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 117 gr/m |  |
| <br>Ölçek : 1/1 | <b>A01.2011</b><br>12 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 132 gr/m |  |
| <br>Ölçek : 1/1 | <b>A01.2012</b><br>13 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 140 gr/m |  |
| <br>Ölçek : 1/1 | <b>A01.2013</b><br>14 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 147 gr/m |  |



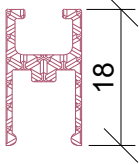
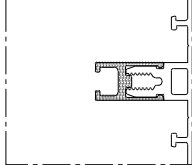
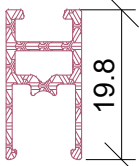
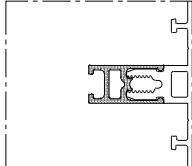
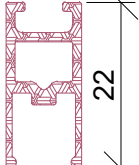
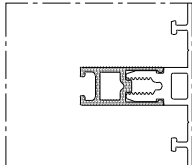
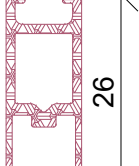
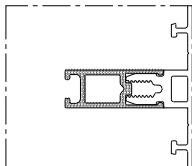
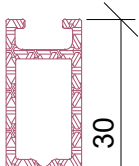
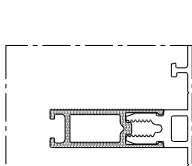
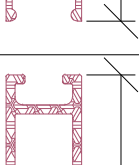


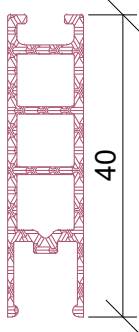
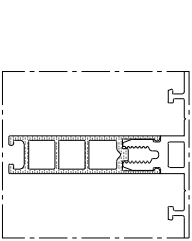
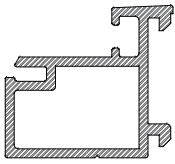
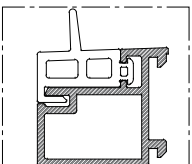
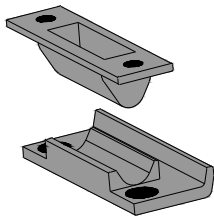
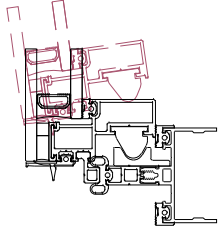
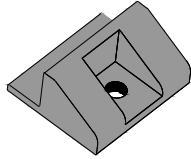
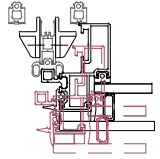
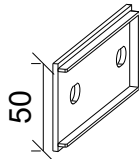
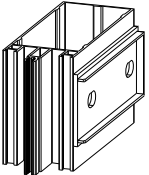
| ÇİZİM / DRAWING                                                                                    | ÜRÜN BİLGİLERİ/<br>PRODUCT DESCRIPTION                                                             | TAKILMA BÖLGESİ /<br>APPLICATION AREA                                               |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <br>Ölçek : 1/1    | <b>A01.2014</b><br>TOZLUK FİTİLİ TİP 1<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 103 gr/m |    |
| <br>Ölçek : 1/1   | <b>A01.1025</b><br>5 mm İÇ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 29 gr/m  |    |
| <br>Ölçek : 1/1   | <b>A01.2016</b><br>4 mm DIŞ BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 88 gr/m |   |
| <br>Ölçek : 1/1 | <b>A01.2017</b><br>SİLİKON DERZ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 115 gr/m |  |
| <br>Ölçek : 1/1  | <b>A01.2018</b><br>ORTA BİNİ FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 117 gr/m    |  |
| <br>Ölçek : 1/1  | <b>A01.2019</b><br>TOZLUK FİTİLİ TİP 1<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 87 gr/m  |  |
| <br>Ölçek : 1/1  | <b>A01.2020</b><br>DERZ ARASI İZALATÖR<br>INTER-JOINT INSULATOR                                    |  |

| ÇİZİM / DRAWING                                                                                    | ÜRÜN BİLGİLERİ/<br>PRODUCT DESCRIPTION                                                            | TAKILMA BÖLGESİ /<br>APPLICATION AREA                                                |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <br>Ölçek : 1/1  | <b>A01.1004</b><br>3.5mm İÇ CAM FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 45 gr/m |   |
| <br>Ölçek : 1/1  | <b>A01.1005</b><br>2.5mm İÇ CAM FİTİLİ<br>Malzeme / Material : EPDM<br>Ağırlık / Weight : 32 gr/m |   |
| <br>Ölçek : 1/1 | <b>A01.1010</b><br>1.5 mm İÇ CAM FİTİLİ                                                           |  |



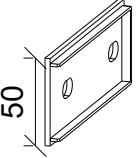
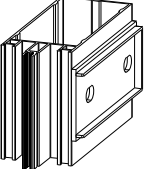
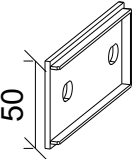
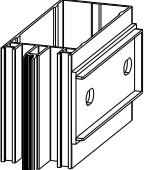
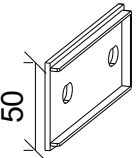
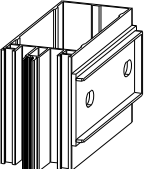
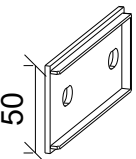
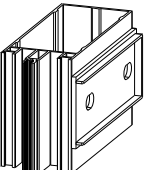
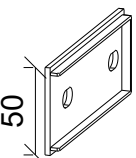
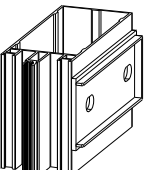
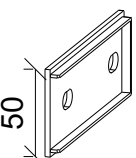
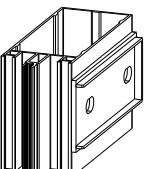
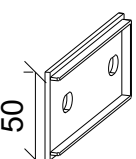
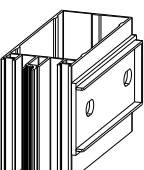


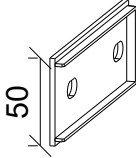
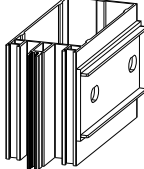
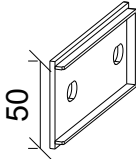
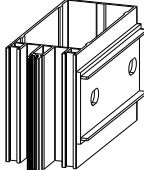
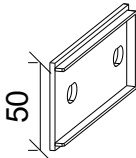
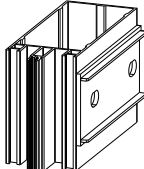
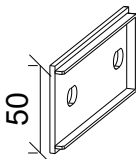
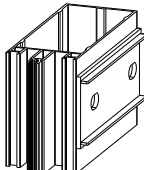
| ÇİZİM / DRAWING                                                                     | ÜRÜN BİLGİLERİ/<br>PRODUCT DESCRIPTION                              | TAKILMA BÖLGESİ /<br>APPLICATION AREA                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | <b>A02.2001</b><br>ISI BARIYERİ (18mm)<br>INSULATION BAR (18mm)     |    |
|    | <b>A02.2002</b><br>ISI BARIYERİ (19,8mm)<br>INSULATION BAR (19,8mm) |    |
|   | <b>A02.2003</b><br>ISI BARIYERİ (22mm)<br>INSULATION BAR (22mm)     |   |
|  | <b>A02.2004</b><br>ISI BARIYERİ (26 mm)<br>INSULATION BAR (26 mm)   |  |
|  | <b>A02.2005</b><br>ISI BARIYERİ (30mm)<br>INSULATION BAR (30mm)     |  |
|  | <b>A02.2006</b><br>ISI BARIYERİ (34mm)<br>INSULATION BAR (34mm)     |  |

| ÇİZİM / DRAWING                                                                      | ÜRÜN BİLGİLERİ/<br>PRODUCT DESCRIPTION                                                    | TAKILMA BÖLGESİ /<br>APPLICATION AREA                                                 |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | <b>A02.2007</b><br>ISI BARIYERİ (40mm)<br>INSULATION BAR (40mm)                           |    |
|    | <b>A02.2008</b><br>KASA BİTİŞ PLASTİĞİ                                                    |    |
|  | <b>A02.2009</b><br>MESAFE BELİRLEYİCİ SABİTLEME<br>PARÇASI<br>SPACER FOR STRUCTURAL CELLS |  |
|  | <b>A02.2010</b><br>KASET HİZALAMA PARÇASI<br>ALIGNMENT PIECE FOR STRUCTURAL CELLS         |  |
|   | <b>A02.2011</b><br>GENLEŞME CONTASI<br>EXPANSION GASKET<br>FR50-56T İÇİN                  |  |





| ÇİZİM / DRAWING                                                                    | ÜRÜN BİLGİLERİ/<br>PRODUCT DESCRIPTION                                    | TAKILMA BÖLGESİ /<br>APPLICATION AREA                                               |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | <b>A02.2012</b><br>GENLEŞME CONTASI<br>EXPANSION GASKET<br>FR50-66T İÇİN  |    |
|    | <b>A02.2013</b><br>GENLEŞME CONTASI<br>EXPANSION GASKET<br>FR50-86T İÇİN  |    |
|   | <b>A02.2014</b><br>GENLEŞME CONTASI<br>EXPANSION GASKET<br>FR50-106T İÇİN |   |
|  | <b>A02.2015</b><br>GENLEŞME CONTASI<br>EXPANSION GASKET<br>FR50-126T İÇİN |  |
|  | <b>A02.2016</b><br>GENLEŞME CONTASI<br>EXPANSION GASKET<br>FR50-136T İÇİN |  |
|  | <b>A02.2017</b><br>GENLEŞME CONTASI<br>EXPANSION GASKET<br>FR50-146T İÇİN |  |
|  | <b>A02.2018</b><br>GENLEŞME CONTASI<br>EXPANSION GASKET<br>FR50-156T İÇİN |  |

| ÇİZİM / DRAWING                                                                     | ÜRÜN BİLGİLERİ/<br>PRODUCT DESCRIPTION                                    | TAKILMA BÖLGESİ /<br>APPLICATION AREA                                                 |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | <b>A02.2019</b><br>GENLEŞME CONTASI<br>EXPANSION GASKET<br>FR50-166T İÇİN |    |
|    | <b>A02.2020</b><br>GENLEŞME CONTASI<br>EXPANSION GASKET<br>FR50-186T İÇİN |    |
|   | <b>A02.2021</b><br>GENLEŞME CONTASI<br>EXPANSION GASKET<br>FR50-206T İÇİN |   |
|  | <b>A02.2022</b><br>GENLEŞME CONTASI<br>EXPANSION GASKET<br>FR50-226T İÇİN |  |



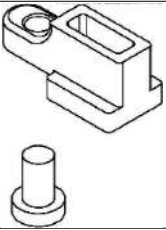


| ÇİZİM / DRAWING                                                                     | ÜRÜN BİLGİLERİ/<br>PRODUCT DESCRIPTION |
|-------------------------------------------------------------------------------------|----------------------------------------|
|    | <b>A03.2001</b><br>10 İNÇ CEPHE MAKASI |
|    | <b>A03.2002</b><br>12 İNÇ CEPHE MAKASI |
|   | <b>A03.2003</b><br>14 İNÇ CEPHE MAKASI |
|  | <b>A03.2004</b><br>16 İNÇ CEPHE MAKASI |
|  | <b>A03.2005</b><br>18 İNÇ CEPHE MAKASI |
|  | <b>A03.2006</b><br>20 İNÇ CEPHE MAKASI |
|  | <b>A03.2007</b><br>22 İNÇ CEPHE MAKASI |

| ÇİZİM / DRAWING                                                                      | ÜRÜN BİLGİLERİ/<br>PRODUCT DESCRIPTION                 |
|--------------------------------------------------------------------------------------|--------------------------------------------------------|
|    | <b>A03.2008</b><br>24 İNÇ CEPHE MAKASI                 |
|    | <b>A03.2009</b><br>26 İNÇ CEPHE MAKASI                 |
|   | <b>A03.2010</b><br>28 İNÇ CEPHE MAKASI                 |
|  | <b>A03.2011</b><br>CEPHE LİMİTLEME MAKASI<br>(LİMİTÖR) |
|  | <b>A03.2012</b><br>CEPHE KÖŞE AKTARMA                  |

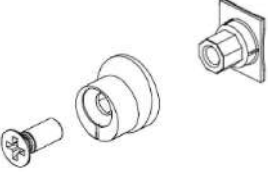
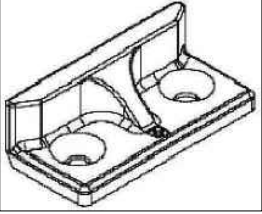




| ÇİZİM / DRAWING                                                                     | ÜRÜN BİLGİLERİ/<br>PRODUCT DESCRIPTION                             |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|    | <b>A04.2001</b><br>CEPHE EKSENEL DÜZ KOL<br>ÇİFT MAÇALI            |
|    | <b>A04.2002</b><br>CEPHE EKSENEL KIVRIK KOL<br>ÇİFT MAÇALI         |
|    | <b>A04.2003</b><br>CEPHE EKSENEL MASTER KOL<br>GÖVDESİ ÇİFT MAÇALI |
|  | <b>A04.2004</b><br>CEPHE EKSENEL MASTER KOL<br>KULP                |
|  | <b>A04.2005</b><br>CEPHE KOL MAÇA BAĞLANTI<br>PABUCU               |





| ÇİZİM / DRAWING                                                                     | ÜRÜN BİLGİLERİ/<br>PRODUCT DESCRIPTION         |
|-------------------------------------------------------------------------------------|------------------------------------------------|
|     | <b>A05.2001</b><br>CEPHE SABİT PİM             |
|     | <b>A05.2002</b><br>CEPHE AYARLI PİM            |
|    | <b>A05.2003</b><br>CEPHE SABİT ZAMAK KARŞILIK  |
|  | <b>A05.2004</b><br>CEPHE AYARLI ZAMAK KARŞILIK |
|  | <b>A05.2005</b><br>ÜST ORTA KİLİTLEME          |

