

AVONI THERMAL SLIDING

PROFİL KATALOĞU
PROFILE CATALOG

ERSAŞ PEN



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ERSAŞ PEN HAKKINDA

Ersaş Pen, yaşam alanlarını sadece koruyan değil, onları daha konforlu, estetik ve sürdürülebilir kılan çözümler üretir.

Her profilde, yalnızca PVC değil; akıl, mühendislik ve yılların tecrübesi vardır. Çünkü bizce bir pencere, sadece dış dünyayla bağlantı değil, aynı zamanda yaşam kalitesinin sınırıdır.

Ersaş Pen sistemleri, insana ve doğaya saygılı üretim anlayışıyla, kurşunsuz ve geri dönüştürülebilir malzemelerden üretilir.

Sürdürülebilirlik, bizim için bir hedef değil, üretimin temelidir.

Bu anlayışla, çevreyle uyumlu ve enerji verimliliği yüksek sistemler geliştirir; geleceği bugünden koruruz.

Ersaş Pen, güvenin, estetiğin ve dayanıklılığın ortak adıdır.
Hayatın her alanında konforu akılla buluşturan bir tercih.



ABOUT ERSAŞ PEN

Ersaş Pen develops solutions that not only protect living spaces but also make them more comfortable, aesthetic, and sustainable.

Behind every profile lies not only PVC, but also intelligence, engineering precision, and years of expertise.

Because for us, a window is more than just a connection to the outside world; it defines the boundaries of living quality.

Produced with respect for people and nature, Ersaş Pen systems are manufactured from lead-free, fully recyclable PVC compounds in line with European environmental standards.

For us, sustainability is not a goal, it is the foundation of production itself. With this approach, we design eco-friendly, energy-efficient window and door systems that help protect the future today.

Ersaş Pen stands for trust, aesthetics, and durability, a smart choice that unites comfort and intelligence in every aspect of life.



DOĞAL IŞIKLA AYDINLANAN MODERN YAŞAM ALANLARI

Ersaş Pen'in uzmanlığıyla geliştirilen Avoni Thermal Sliding, geniş açıklıkları ve yüksek ısı yalıtımıyla yaşam alanlarına ferahlık kazandırır.

Sağlam yapısı ve sessiz kayar mekanizmasıyla uzun ömürlü konfor sunar. Modern mimariye uyumlu ince hatlarıyla iç mekânla dış mekân arasında zarif bir geçiş yaratır.

Avoni Thermal Sliding, ışığı içeri davet ederken konforu her mevsim korur.

MODERN LIVING SPACES FILLED WITH NATURAL LIGHT

Developed with the expertise of Ersaş Pen, Avoni Thermal Sliding brings spaciousness to living areas with its wide openings and high thermal insulation.

Its sturdy construction and quiet sliding mechanism offer long-lasting comfort.

Its sleek lines, compatible with modern architecture, create an elegant transition between indoor and outdoor spaces.

Avoni Thermal Sliding invites light inside while maintaining comfort in every season.



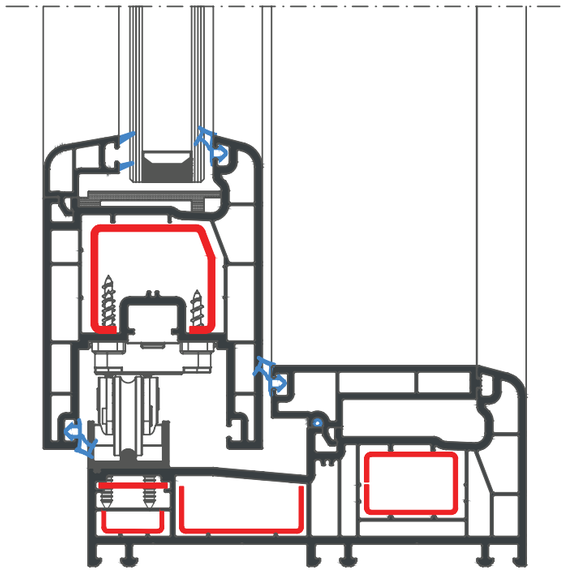


Ersaş Pen premium ürünleri üstün ısı yalıtımı sayesinde yazın serin, kışın sıcak bir ortam sunar. Güçlendirilmiş kanat yapısı ve kaliteli malzemesi ile uzun ömürlü ve güvenli kullanım sağlar. Minimal ve modern tasarımıyla evinize estetik bir dokunuş katar.

Ersaş Pen premium products provide a cool environment in summer and a warm environment in winter thanks to their superior thermal insulation. With their reinforced wing structure and high-quality materials, they ensure long-lasting and safe use. Their minimalist and modern design adds an aesthetic touch to your home.

AVONI THERMAL SLIDING

Sürme Sistemler



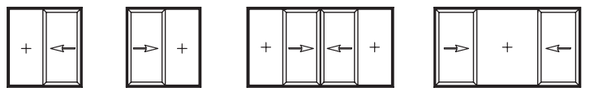
TEKNİK ÖZELLİKLER	
Profil genişliği	142 mm
Et kalınlığı	B sınıfı
Odacık sayısı	7 odacıklı sistem
Isı iletim katsayısı Uf	1,18 W/m²K
Cam kalınlıkları	20-24-30-36 mm
Conta tipi / rengi	TPE siyah / gri

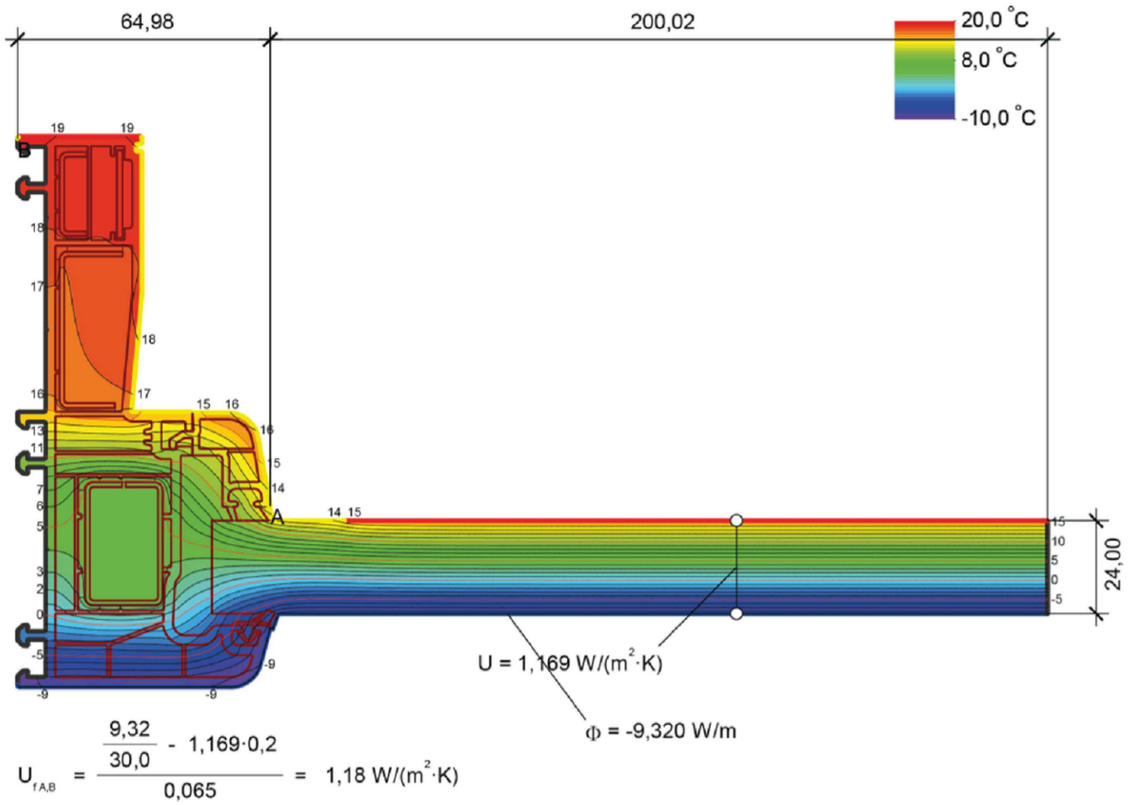
PERFORMANS ÖZELLİKLERİ	
TS EN 12207 Hava geçirgenliği	Sınıf 4
TS EN 12208 Su sızdırmazlığı	Sınıf 9A
TS EN 12210 Rüzgar yükü dayanımı	Sınıf B2

TECHNICAL PROPERTIES	
Profil width	142 mm
Wall thickness	B class
Number of chambers	7 chambers system
UF value	1,18 W/m²K
Glass thickness	20-24-30-36 mm
Gasket model / color	TPE black / grey

PERFORMANCE PROPERTIES	
TS EN 12207 Air Permability	Class 4
TS EN 12208 Water tightness	Class 9A
TS EN 12210 Resistance to wind load	Class B2

TİPOLOJİLER / TYPOLOGIES





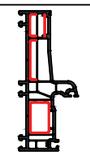
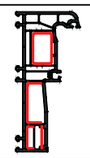
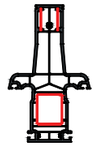
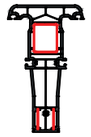
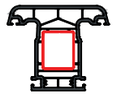
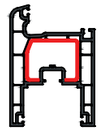
$$U_{f\,A,B} = \frac{\frac{9,32}{30,0} - 1,169 \cdot 0,2}{0,065} = 1,18\ W/(m^2 \cdot K)$$

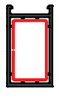
Material	λ[W/(m·K)]
EPDM (ethylene propylene diene monomer)	0,250
PVC (polyvinylchloride), rigid	0,170
Panel	0,035
Steel	50,000
Unventilated air cavity *	

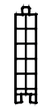
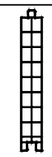
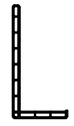
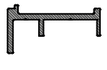
* EN ISO 10077-2:2017, 6.4.3/anisotrop

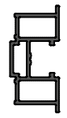
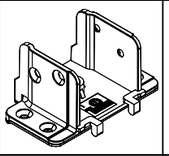
oundary Condition	q[W/m²]	θ[°C]	R[(m²·K)/W]	ε
ɔsilon 0.9				0,900
terior, normal		-10,000	0,040	
terior, frame, normal		20,000	0,130	
erior, frame, reduced		20,000	0,200	
rmmetry/Model section	0,000			

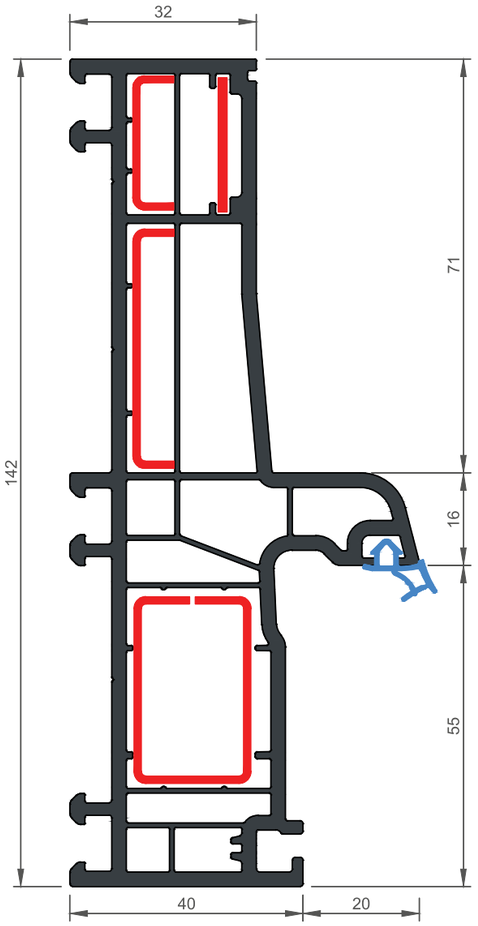
PROFİLLER
PROFILES

Profil Num. Profile No.	Çizim Drawing	Tanım Descpirtion
AV-140		**İç Sabit Kasa Profili** *Inner Fixed Frame Profile*
AV-130		**Dış Sabit Kasa Profili** *Outer Fixed Frame Profile*
AV-222		**İç Sabit Orta Kayıt Profili** *Inner Fixed Mullion Profile*
AV-221		**Dış Sabit Orta Kayıt Profili** *Outer Fixed Mullion Profile*
AV-210		**Orta Kayıt Profili** *Mullion Profile*
AV-310		**Kanat Profili** *Sash Profile*
AV-320		**Pencere Kanat Profili** *Window Sash Profile*
AV-500		**40mm Cama Göre Çıta** *Glazing With 40mm Gap*
AV-501		**36mm Cama Göre Çıta** *Glazing With 36mm Gap*

Profil Num. Profile No.	Çizim Drawing	Tanım Descpirtion
AV-502		**30mm Cama Göre Çıta** *Glazing With 30mm Gap*
AV-503		**24mm Cama Göre Çıta** *Glazing With 24mm Gap*
AV-504		**20mm Cama Göre Çıta** *Glazing With 20mm Gap*
AV-461		**İç Sabit Kasa Kapama Profili** *Closer Profile for Inner Fixed Frame*
AV-451		**Kenet Profili** *Interlock Profile*
AV-462		**Dış Sabit Kasa Kapama Profili** *Closer Profile for Outer Fixed Frame*
AP-490		**Orta Kayıt Destek Profili** *Mullion Reinforcement Profile*
AP-463		**Destek Kapama Profili** *Interlock Reinforcement Closer Profile*
AP-431		**İnce Bağ Profili** *Thin Bond Profile*

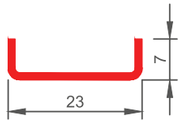
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AP-461		**100'lük 24mm Lambiri** *100' 24mm Panel*
AP-462		**150'lük 24mm Lambiri** *150' 24mm Panel*
AP-415		**Pervaz Yatağı Profili** *Architrave Locking Profile*
AP-412		**150'lik Pervaz Profili** *150' Architrave Profile*
AP-413		**100'lük Pervaz Profili** *100' Architrave Profile*
AP-414		**45'lik Pervaz Profili** *45' Architrave Profile*
AV-401		**Alt Ray Profili** *Under Rail Profile*
AV-402		**Üst Ray Profili** *Upper Rail Profile*
AV-403		**Kanat Aksesuar Destek Profili** *Sash Accessory Reinforcement Profile*

Profil Num. Profile No.	Çizim Drawing	Tanım Descpirtion
AV-404		**Alın Alına Aksesuar Profili** *Head to Head Accessory Profile*
AV-463		**Alın Alına Kapama Profili** *Head to Head Closing Profile*
YR-0501003		**Orta Kayıt Bağlantı Takozu** *Mullion Connector Block*

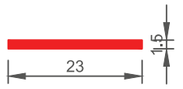


AV-140

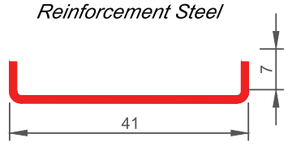
İç Sabit Kasa Profili
Inner Fixed Frame Profile



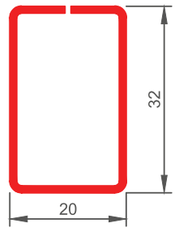
TM-0401013
Destek Sacı
Reinforcement Steel



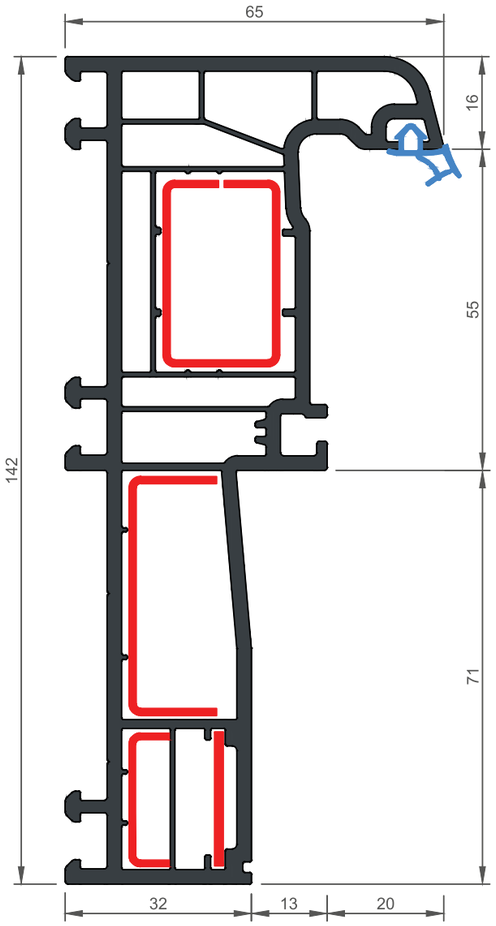
TM-0403002
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Reinforcement Steel



TM-0401012
Destek Sacı
Reinforcement Steel



TM-0402021
Destek Sacı
Reinforcement Steel

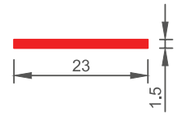


AV-130

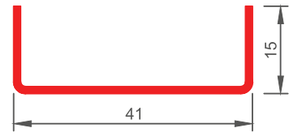
Dış Sabit Kasa Profili
Outer Fixed Frame Profile



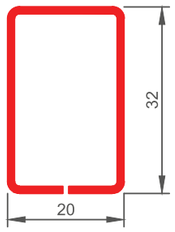
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Destek Sacı
Reinforcement Steel



TM-0403002
Destek Sacı
Reinforcement Steel

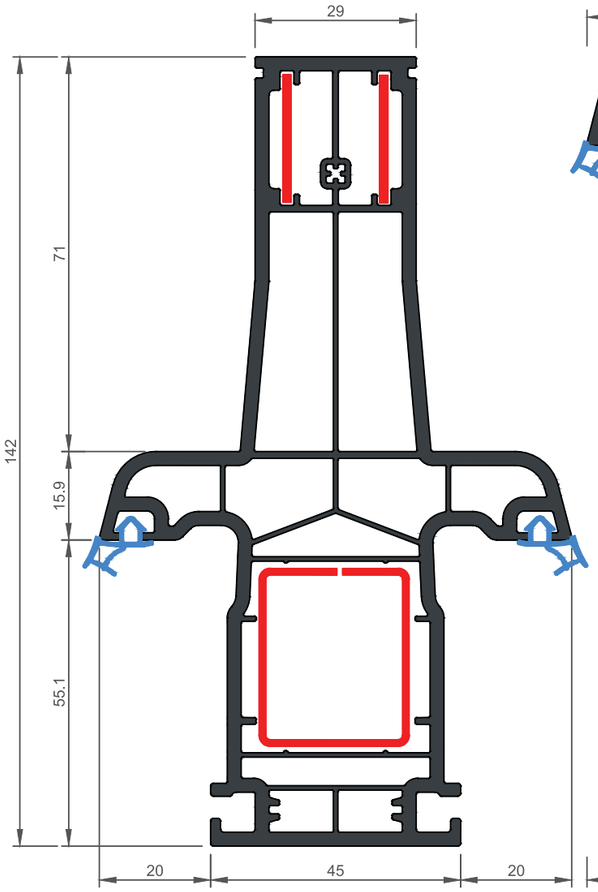


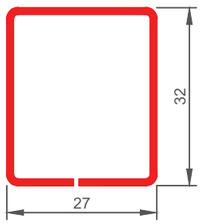
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Reinforcement Steel



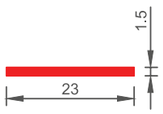
TM-0402021
Destek Sacı
Reinforcement Steel

AV-222
İç Sabit Orta Kayıt Profili
Inner Fixed Mullion Profile



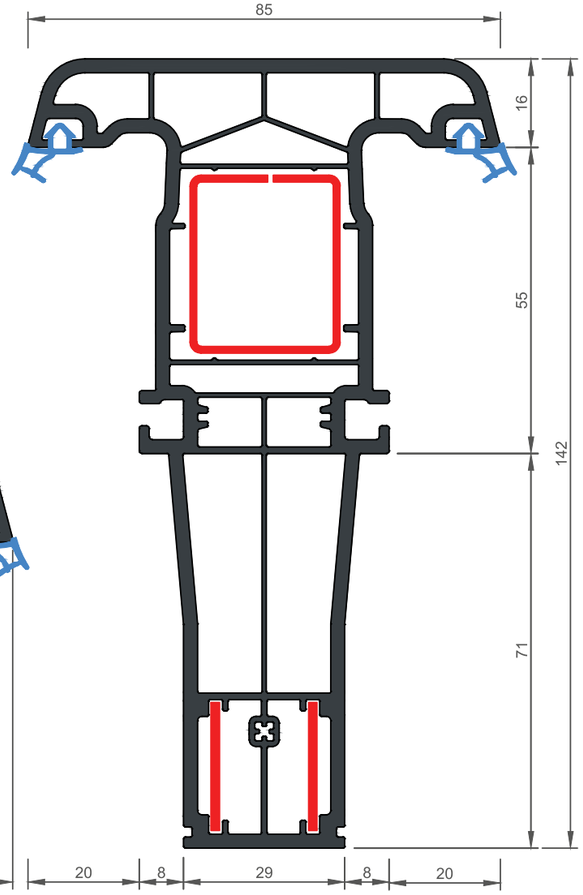


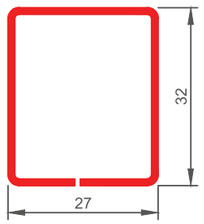
TM-0402022
Destek Sacı
Reinforcement Steel



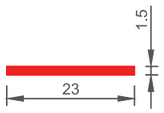
TM-0403002
Destek Sacı
Reinforcement Steel

AV-221
Dış Sabit Orta Kayıt Profili
Outer Fixed Mullion Profile

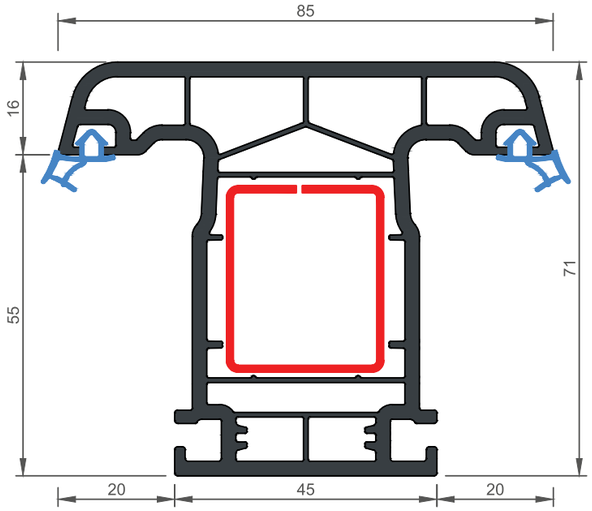




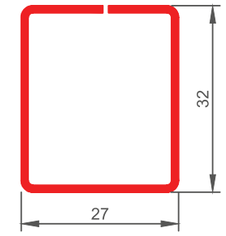
TM-0402022
Destek Sacı
Reinforcement Steel



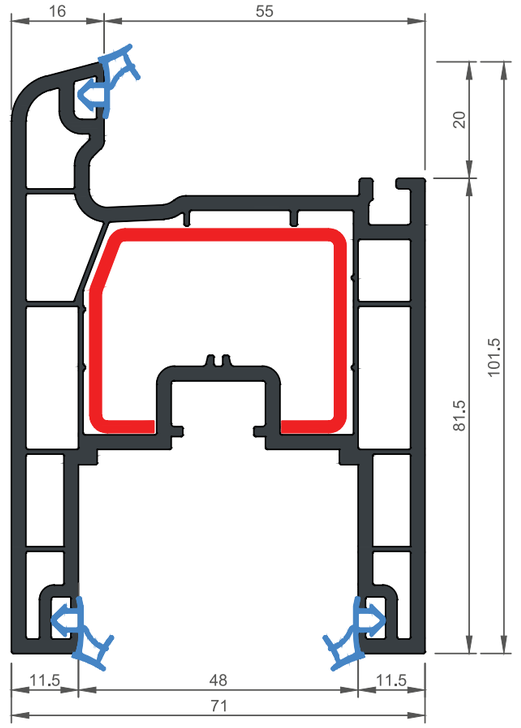
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Destek Sacı
Reinforcement Steel



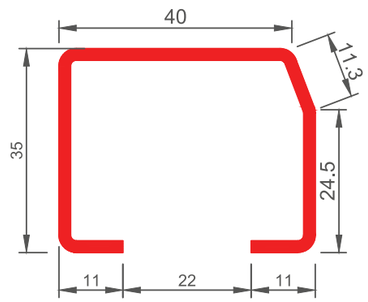
AV-210
Orta Kayıt Profili
Mullion Profile



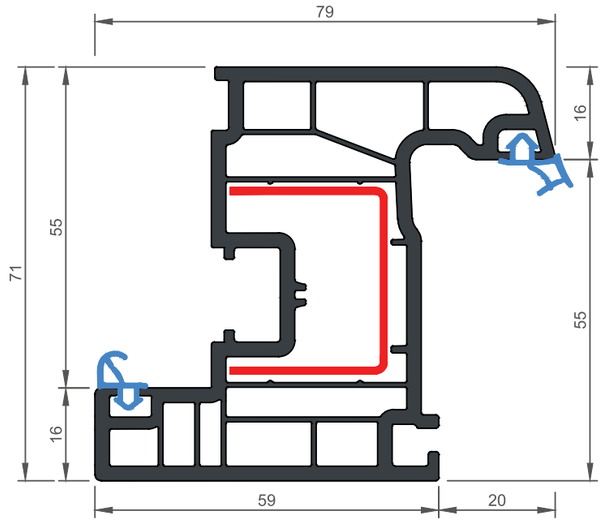
TM-0402022
Destek Sacı
Reinforcement Steel



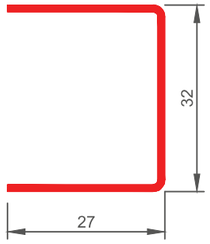
AV-310
Kanat Profili
Sash Profile



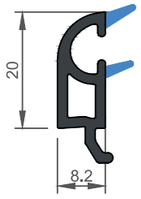
TM-0404004
Destek Sacı
Reinforcement Steel



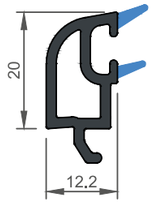
AV-320
Pencere Kanat Profili
Window Sash Profile



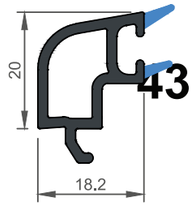
TM-0401015
Destek Sacı
Reinforcement Steel



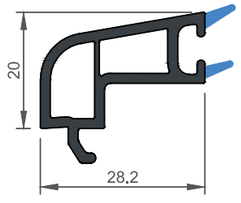
AV-500
40mm Cama Göre Çıta
Glazing With 40mm Gap



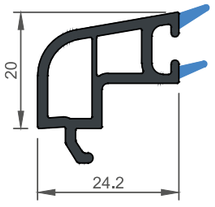
AV-501
36mm Cama Göre Çıta
Glazing With 36mm Gap



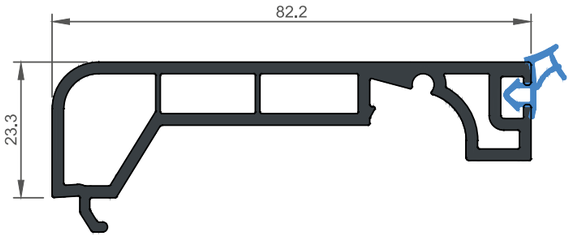
AV-502
30mm Cama Göre Çıta
Glazing With 30mm Gap



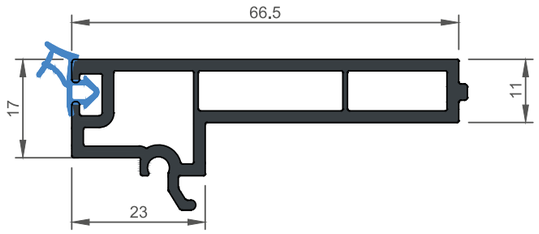
AV-504
20mm Cama Göre Çıta
Glazing With 20mm Gap



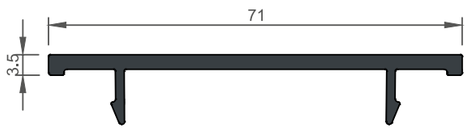
AV-503
24mm Cama Göre Çıta
Glazing With 24mm Gap



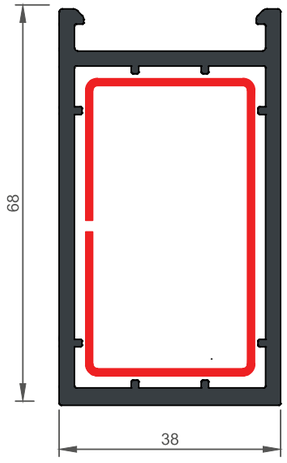
AV-461
İç Sabit Kasa Kapama Profili
Closer Profile for Inner Fixed Frame

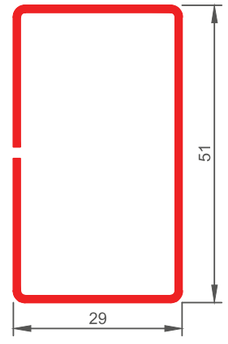


AV-462
Dış Sabit Kasa Kapama Profili
Closer Profile for Outer Fixed Frame



AV-451
Kenet Profili
Interlock Profile



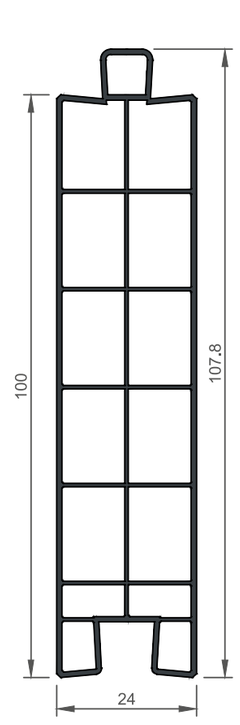


TM-0402027
Destek Sacı
Reinforcement Steel

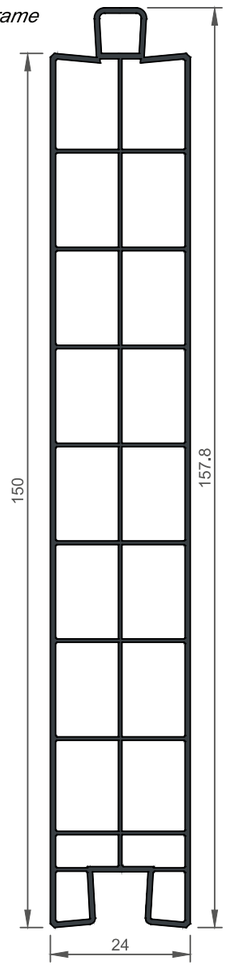
AP-490
Orta Kayıt Destek Profili
Mullion Reinforcement Profile



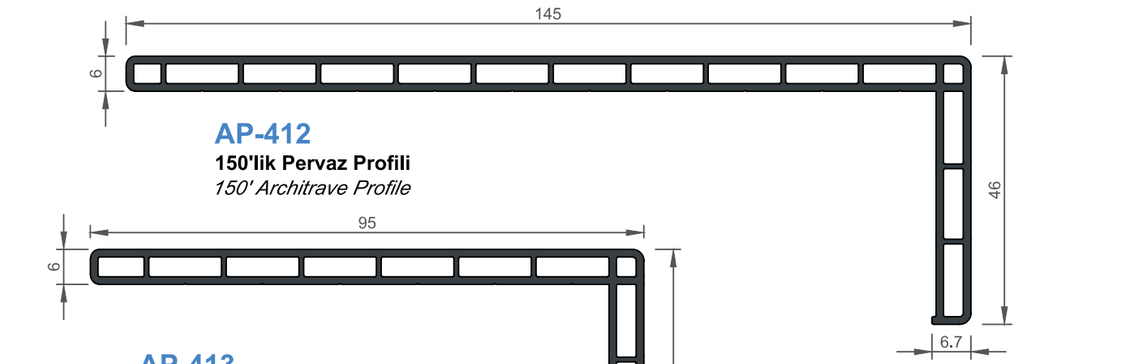
AP-463
Kenet Destek Kapama Profili
Interlock Reinforcement Closer Profile



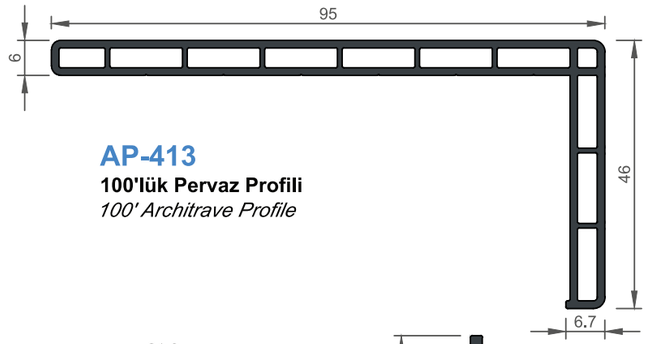
AP-461
100'lük 24mm Lambiri
100' 24mm Panel



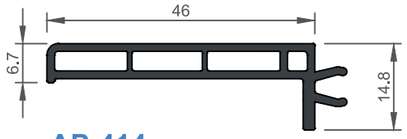
AP-462
150'lük 24mm Lambiri
150' 24mm Panel



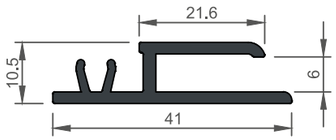
AP-412
150'lik Pervaz Profili
150' Architrave Profile



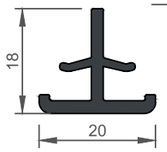
AP-413
100'lük Pervaz Profili
100' Architrave Profile



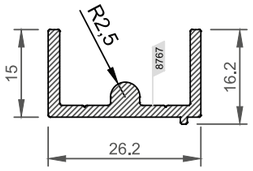
AP-414
45'lik Pervaz Profili
45' Architrave Profile



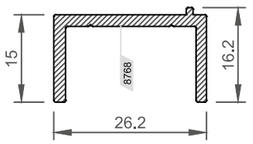
AP-415
Pervaz Yatağı Profili
Architrave Locking Profile



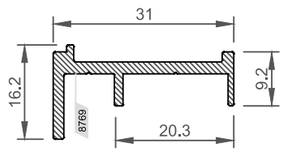
AP-431
İnce Bağ Profili
Thin Bond Profile



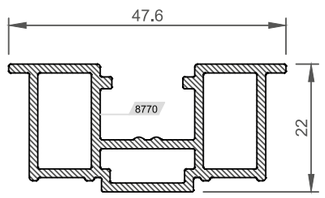
AV-401
Alt Ray Profili
Under Rail Profile



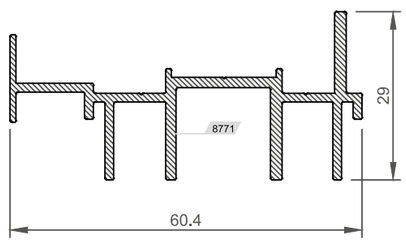
AV-402
Üst Ray Profili
Upper Rail Profile



AV-403
Kanat Aksesuar Destek Profili
Sash Accessory Reinforcement Profile



AV-404
Alın Alına Aksesuar Profili
Head to Head Accessory Profile

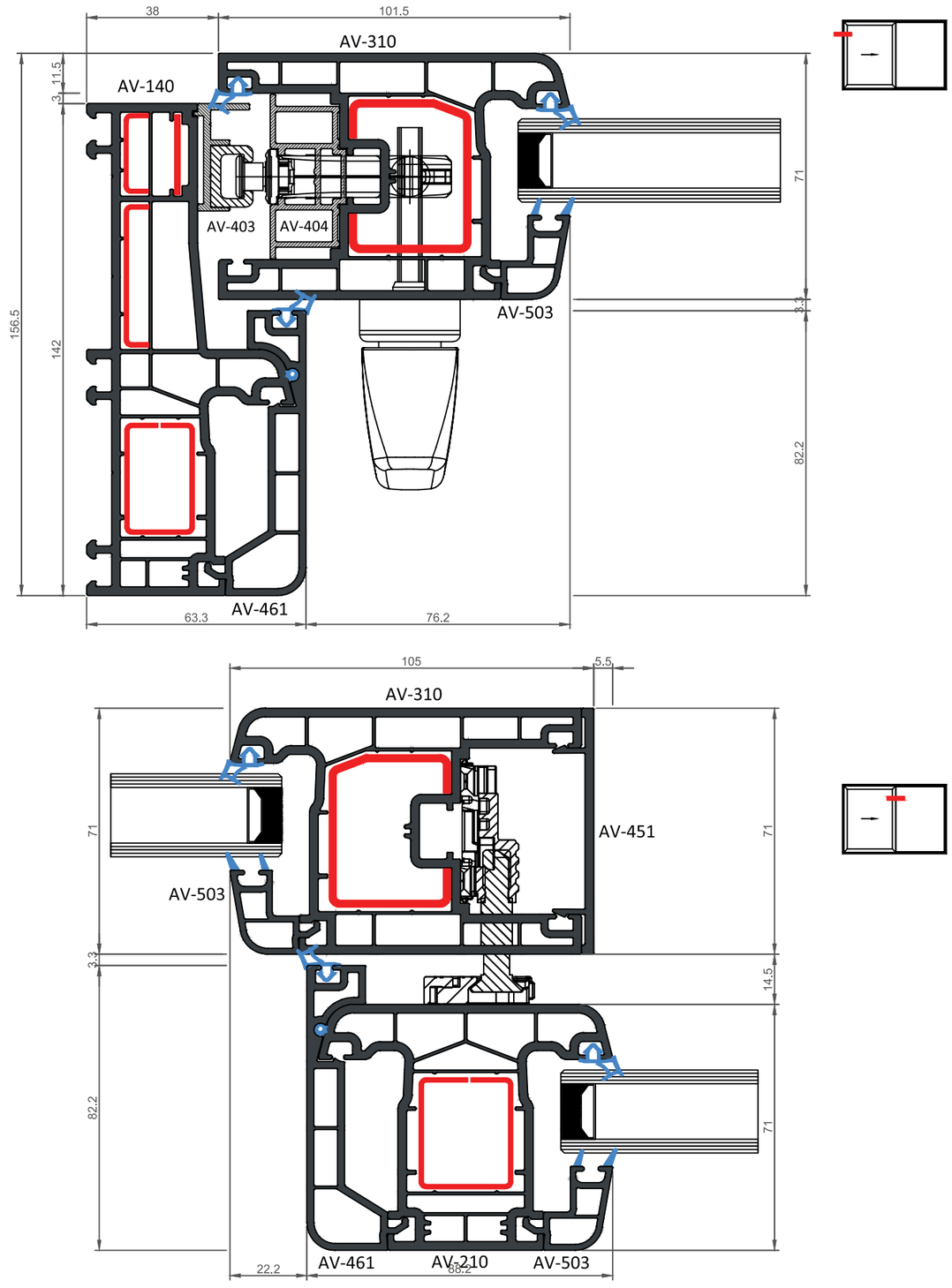


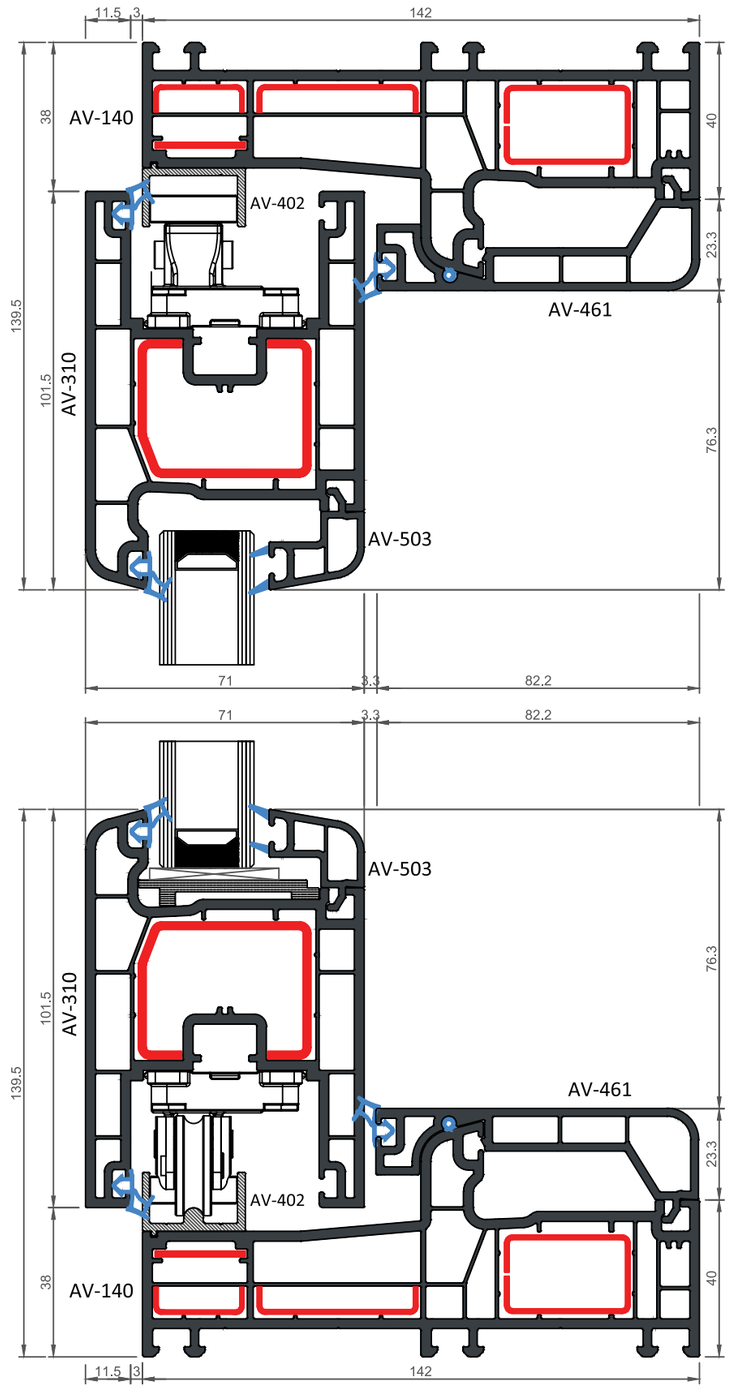
AV-463
Alın Alına Kapama Profili
Head to Head Closing Profile

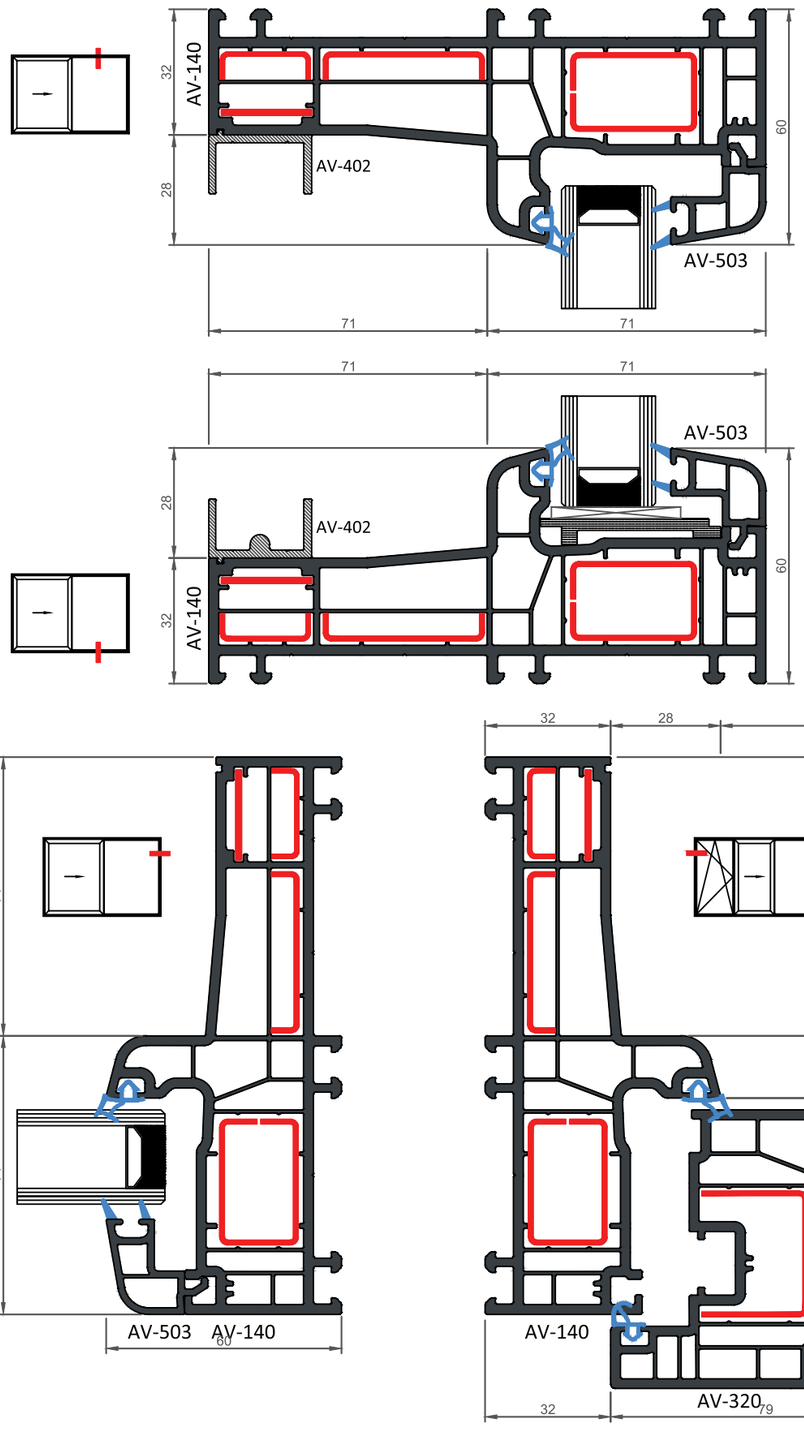


DETAYLAR
DETAILS

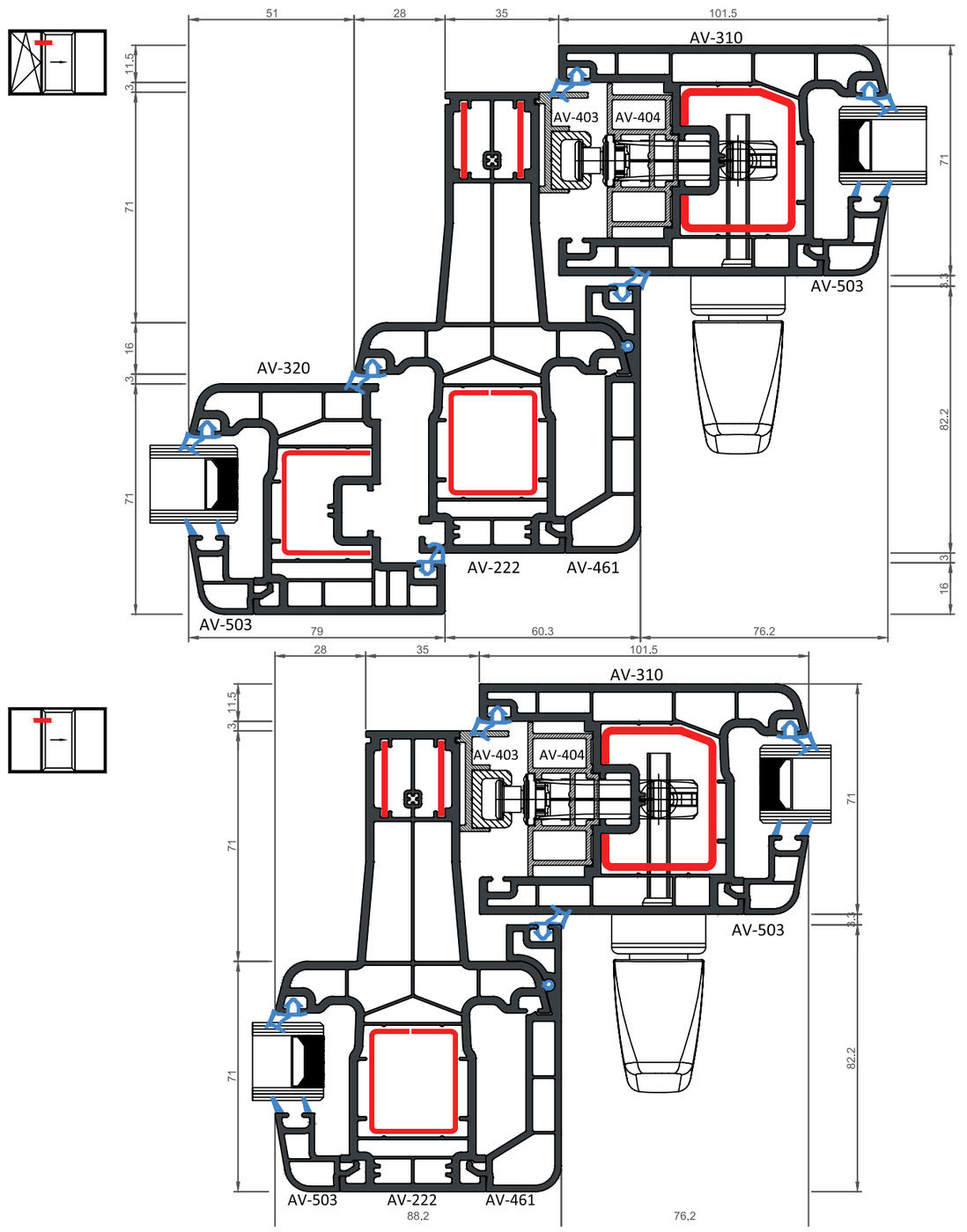
İÇ SABİT DETAYLARI
INNER FIXED DETAILS

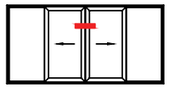

38
101.5
AV-310
AV-140
3
11.5
AV-403
AV-404
AV-503
AV-461
156.5
142
71
3.3
82.2
63.3
76.2
105
5.5
AV-451
14.5
AV-210
22.2
68.2

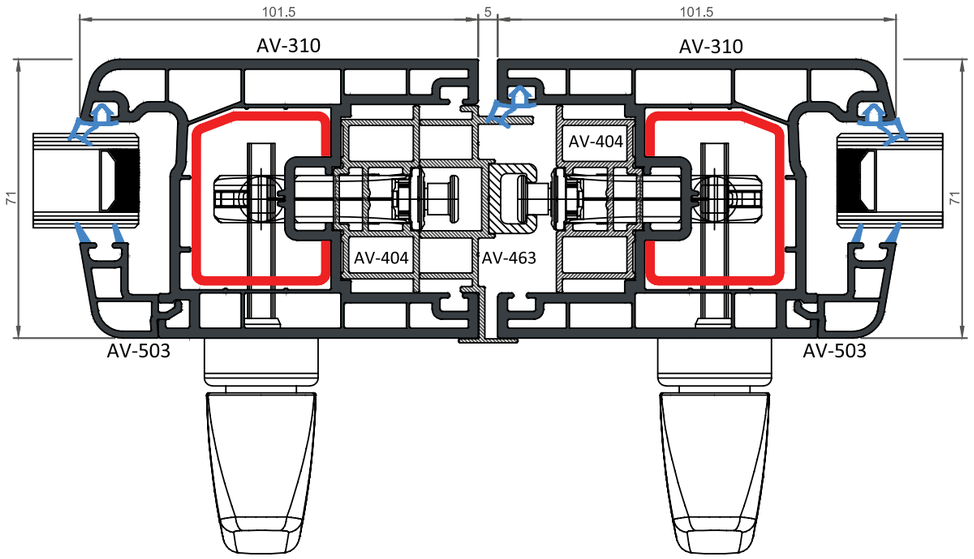

11.5
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AV-140
AV-402
AV-461
40
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139.5
101.5
AV-310
AV-503
76.3
71
3.3
82.2



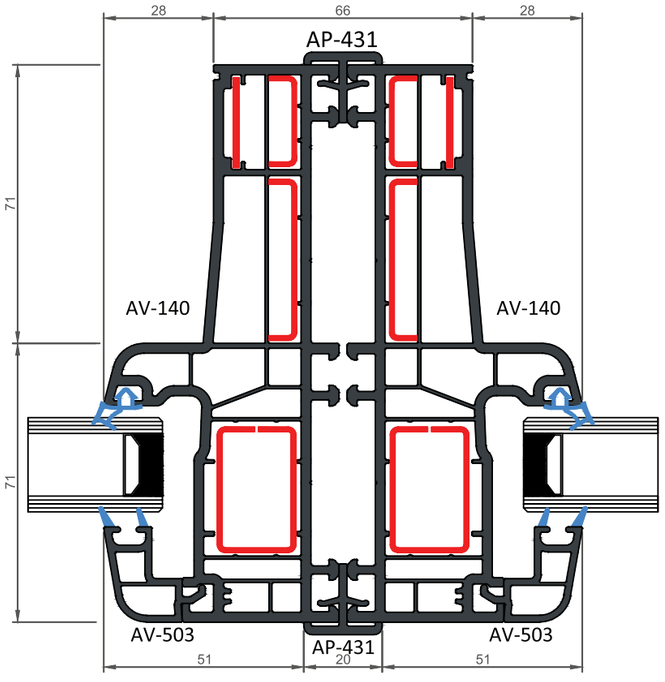
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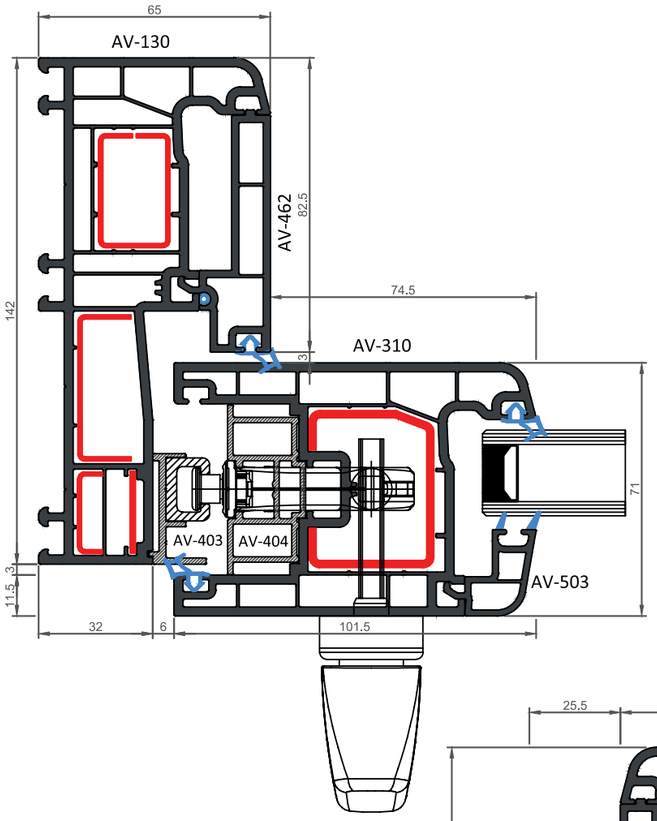

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101.5
AV-310
AV-310
AV-404
AV-404
AV-463
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AV-503
AV-503

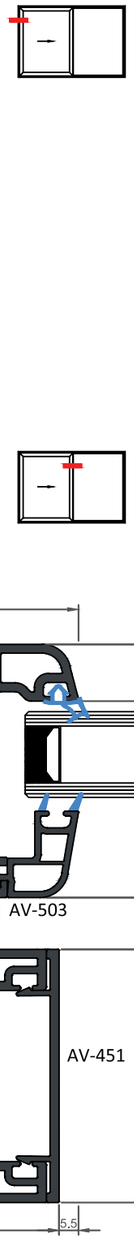



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AP-431
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AV-503
AP-431
AV-503
51
20
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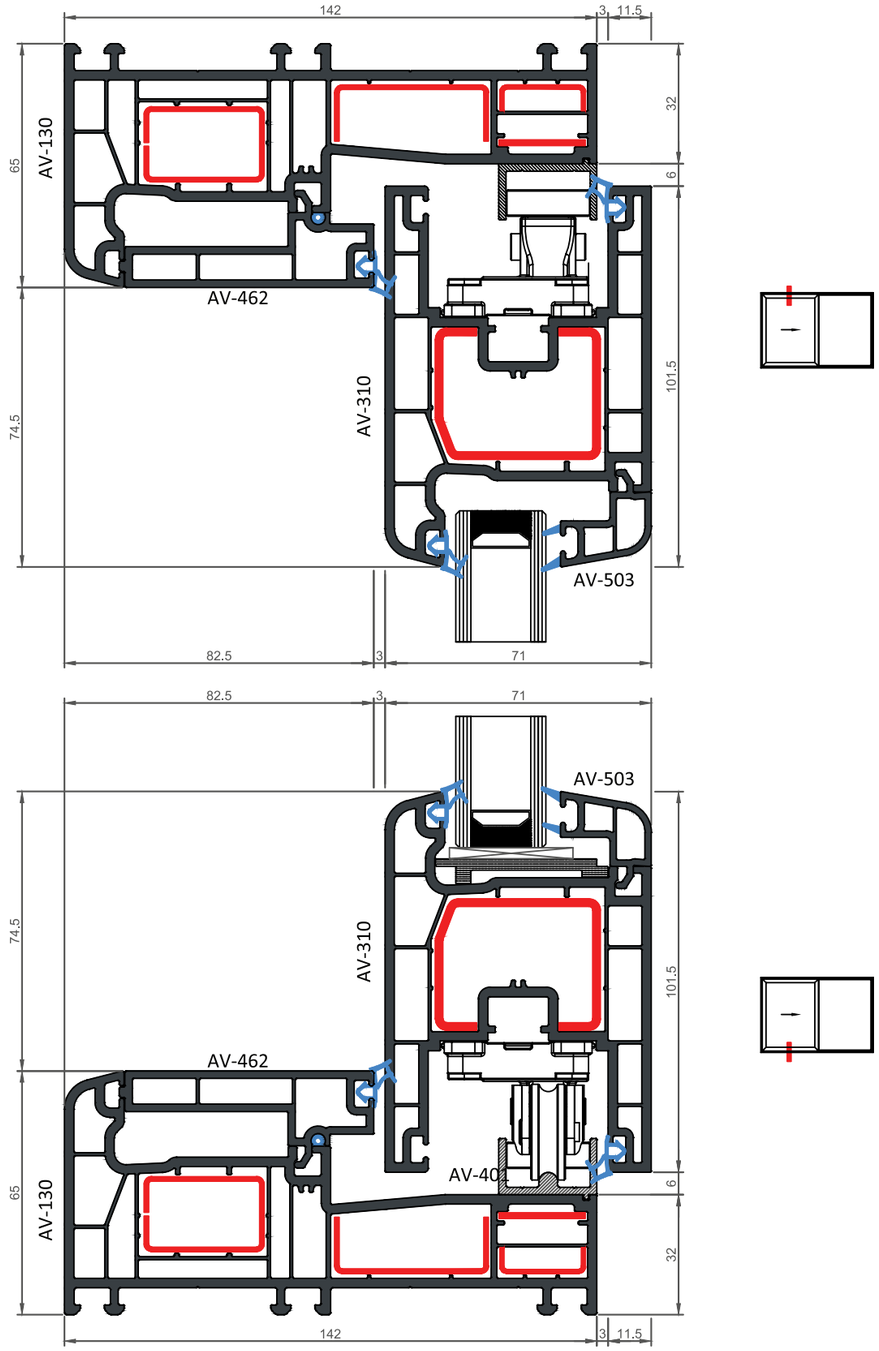


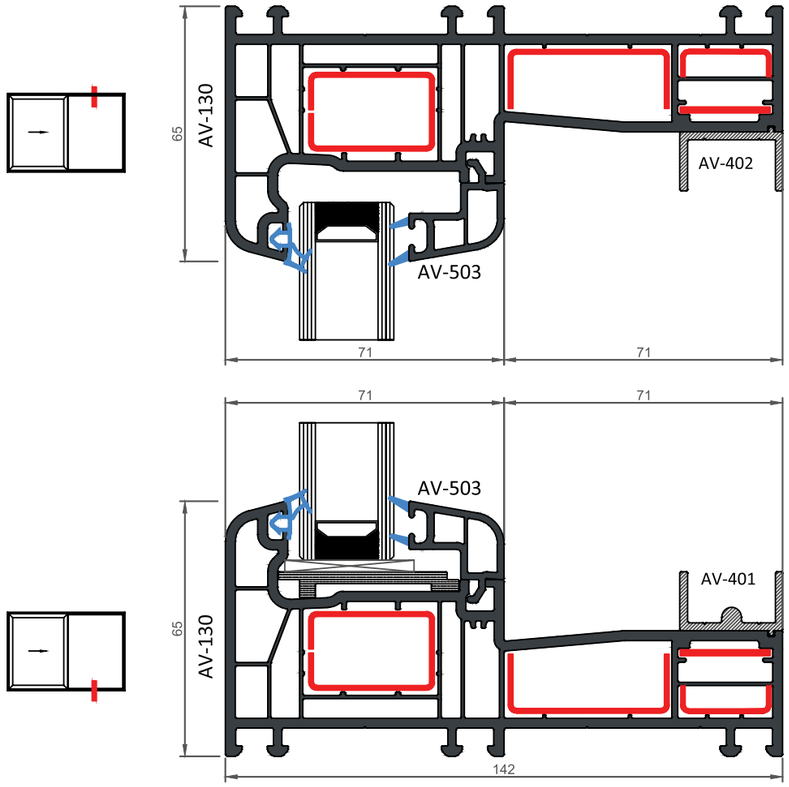
DIŞ SABİT DETAYLARI
OUTER FIXED DETAILS


65
AV-130
AV-462
82.5
142
74.5
AV-310
3
71
AV-403
AV-404
AV-503
11.5
3
32
6
101.5

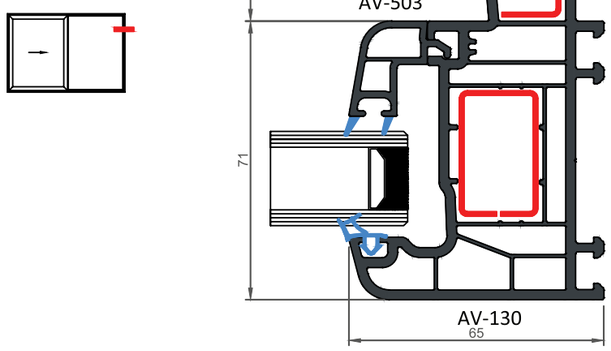


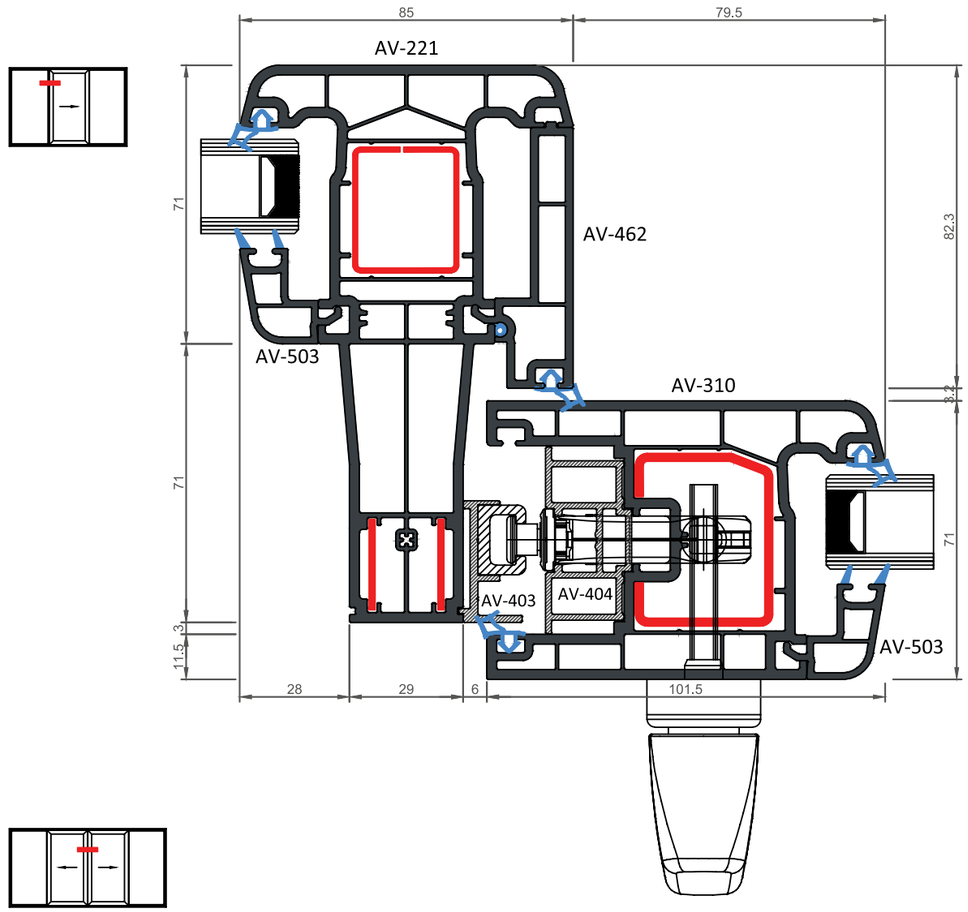
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5.5

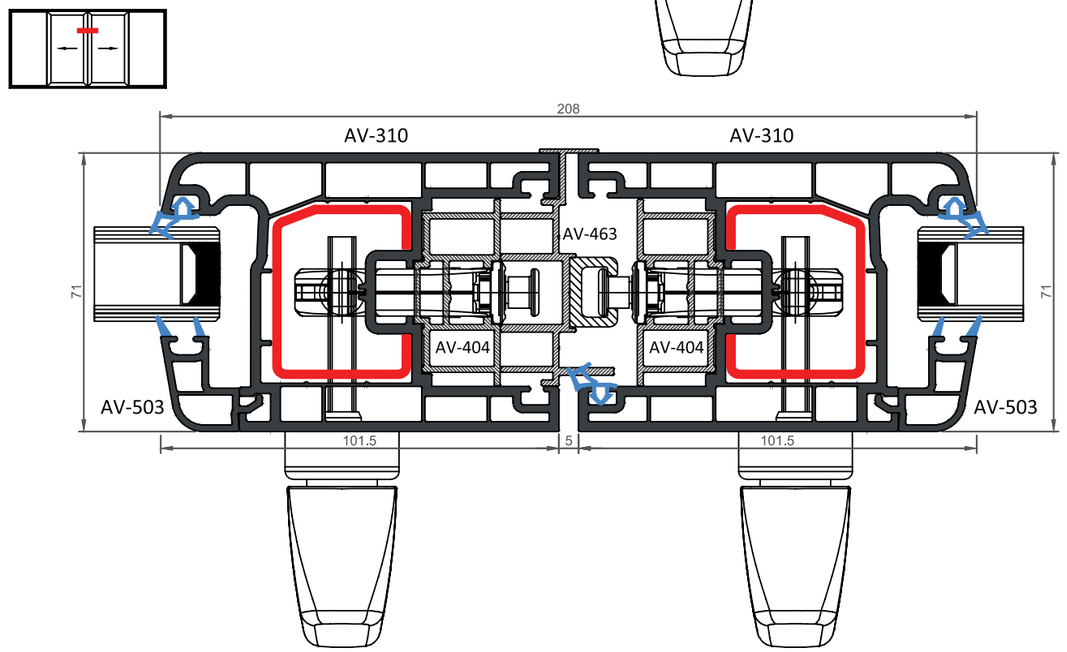

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AV-462
AV-40
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AV-130
6
32
142
3
11.5


AV-130
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AV-402
AV-503
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AV-503
AV-401
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142


71
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AV-130
65


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101.5


208
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AV-503
AV-503
101.5
5
101.5



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