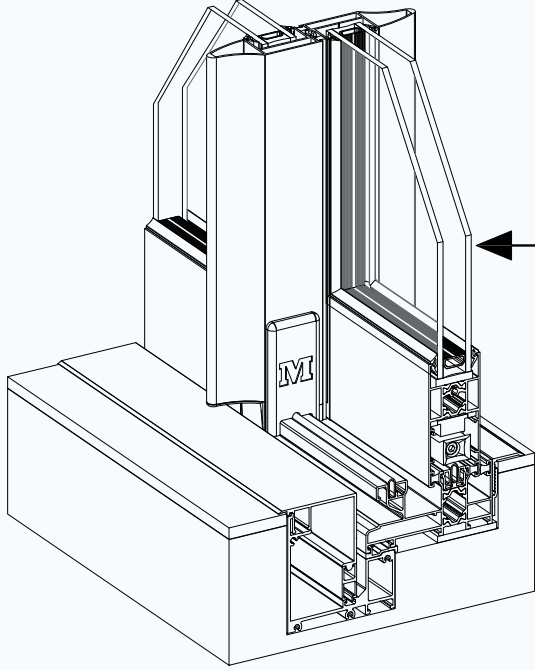


MİMARİ SİSTEM KATOLOĞU

ARCHITECTUR ALSYSTEM CATALOGUE

FERMOsa

SYSTEM



MAESTRO 89

Sürme Sistemi / Sliding System



MAESTRO 89 Insulated Sliding

MAESTRO 89 "89,7mm kasa derinliđi"; iki ve üç raylı normal sürme varyasyonları kapsayan ısı yalıtımlı olarak sunan yeni nesil ekonomik bir sürme sistemidir.

YENİLİKÇİ TASARIM

Sürme sistemler özellikle geniş vizyon alan görölmek istenen yerlerde tercih edilen ve estetik olması büyük önem taşıyan ürünlerdir. **MAESTRO 89**'da kullanılan radyuslu tasarım dili, sistemin estetik ve modern yapısını ön plana çıkartmaktadır. Sistemin her detayında görülebilecek bu kıvrımlı yapı, görsel bütünlüğü bozabilecek kenet gibi bölümlerde ince kesitler kullanılmasıyla birleştğinde sistemin yapıyla bir bütün oluşturması sağlanmaktadır. Mimari alüminyum sistemlerde estetiğın artması, imalat ve kullanım zorluğu manasına gelirken; bu tip zorluklar tasarım sürecinin en başında planlandığından,

MAESTRO 89'da imalat ve kullanım özelliklerden feragat edilmemiştir. EKONOMİKLİK

MAESTRO 89'da yüzey kalitesini ve imalat özelliklerini bozmayacak ölçüde ince et kalınlıkları tercih edilirken, taşıyıcılık yönünden önem arz eden kısımlarda geometrik tasarım özelliklerinden faydalanılarak, hem hafiflik hem de rijitlik bir arada sağlanmıştır.

İMALAT KOLAYLIđI

Sistemin tüm aksesuarları ortak kullanım ve birbiriyle uyumlu çalışma mantığı çerçevesinde tasarlandığından, **MAESTRO 89** imalat kolaylığı yönünden benzersiz bir yapıdadır.

ENERJİ TASARRUFU

Çevreye duyarlılık ve enerji tasarrufu konuları gün geçtikçe önem kazanmakta olduğundan

MAESTRO 89' da ısı yalıtım özelliklerine de önem verildi.

GELİŞTİRİLEBİLİRLİK

MAESTRO 89, sistem konsepti olarak kolaylıkla geliştirilebilir yapıda dizayn edilmiştir. Bu sayede eklenecek yeni çözümlerinin sisteme adaptesi hızlı biçimde yapılabilmektedir.

MAESTRO 89 "89,7mm case depth"; it is a new generation economic sliding system that offers two and three rails, normal and with covering thermal insulation. INNOVATIVE DESIGN

Sliding systems are products that are preferred especially in places where a wide vision area is desired to be seen and aesthetics are of great importance. The radius design language used in

MAESTRO 89 highlights the aesthetic and modern structure of the system. When this curved structure, which can be seen in every detail of the system, is combined with the use of thin sections in sections such as seams that can disrupt the visual integrity, the system is provided to form a whole with the structure. While the increase of aesthetics in architectural aluminum systems means difficulty in manufacturing and use; Since such difficulties are planned at the very beginning of the design process, the **MAESTRO 89** does not compromise the manufacturing and usage features.

ECONOMY

in **MAESTRO 89**, thin wall thicknesses that do not impair the surface quality and manufacturing properties are preferred, while the geometric design features are used in the parts that are important in terms of bearing, and both lightness and rigidity are provided together.

EASE OF MANUFACTURING

Since all the accessories of the system are designed within the framework of common use and working in harmony with each other, **MAESTRO 89** is unique in terms of ease of manufacture.

ENERGY-SAVING

Since environmental awareness and energy saving issues are gaining importance day by day, thermal insulation features were also given importance in

MAESTRO 89.

IMPROVABILITY

MAESTRO 89 has been designed to be easily developed as a system concept. in this way, new solutions to be added can be adapted to the system quickly.

FERMO SA

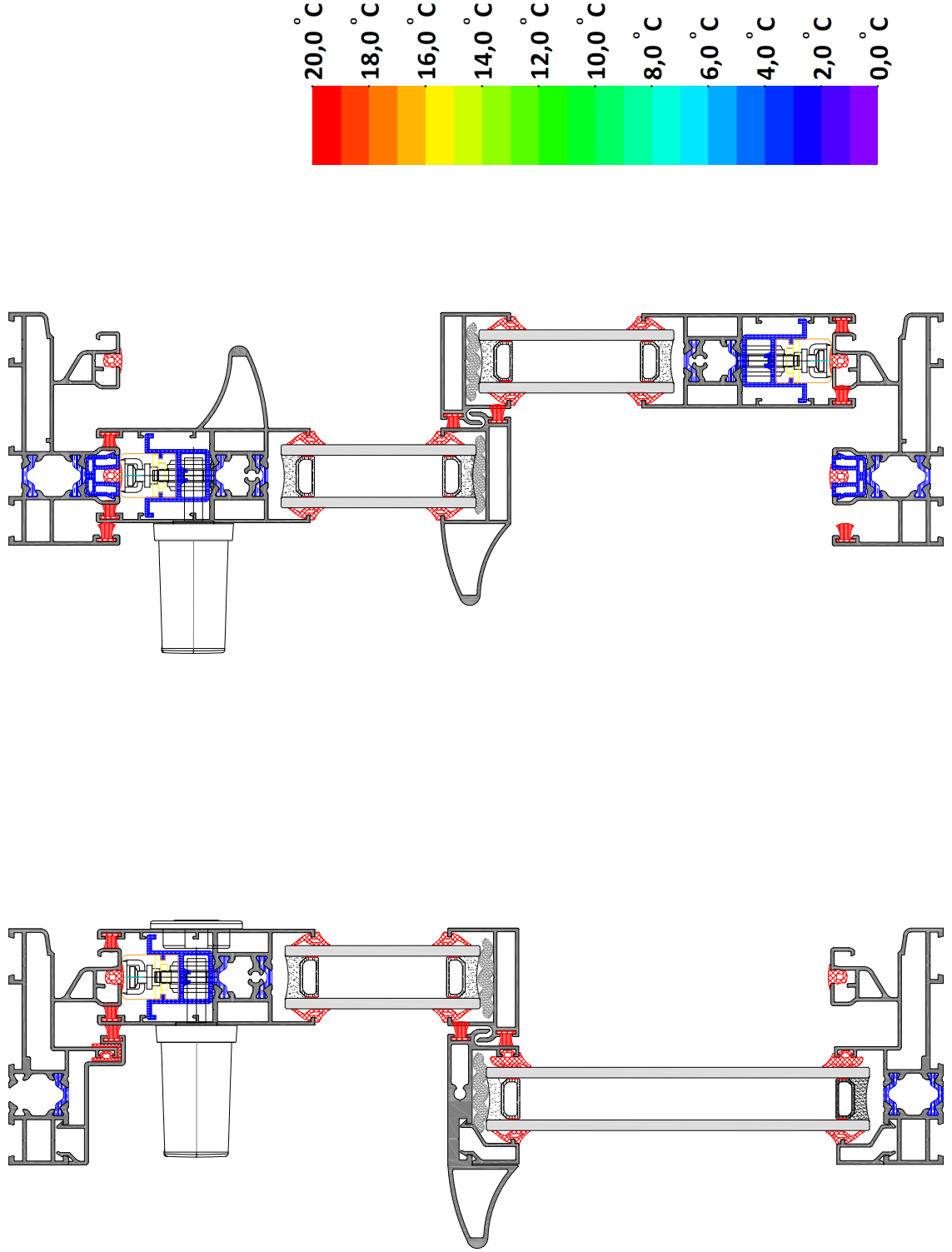
SYSTEM

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MAESTRO 89 Insulated Sliding

PROFİL TERMAL RAPORLARI

PROFILE THERMAL INSULATION VALUES



MAESTRO 89 Insulated Sliding

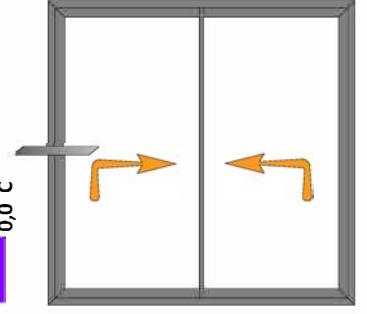
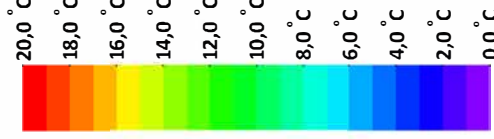
TERMAL PERFORMANS DEĞERLERİ THERMAL PERFORMANCE VALUES

TERMAL HESAP KOŞULLARI
THERMAL CALCULATION CONDITIONS

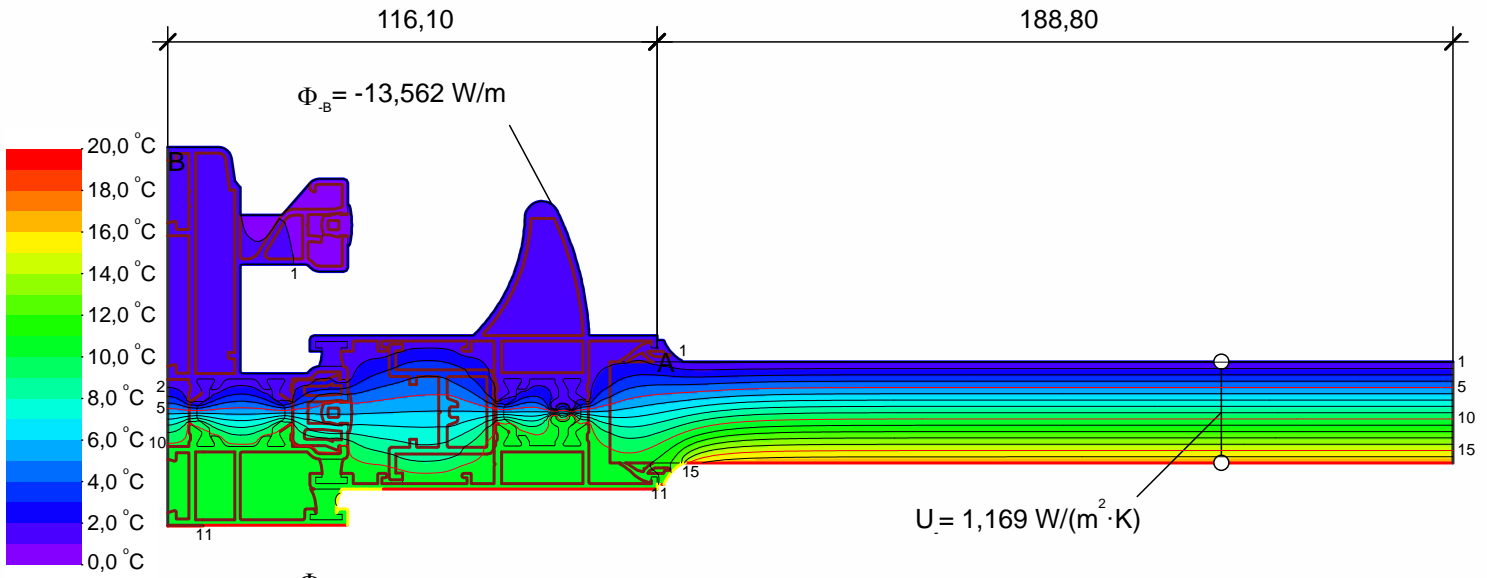
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(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI: 20°C
(ROOM TEMPERATURE)

BAĞIL NEM: %50
(RELATIVE HUMIDITY)



KESİT-1

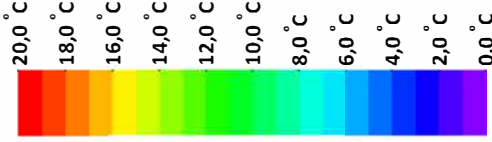
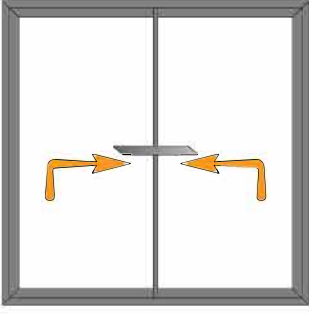


$$U_{TJ,AB} = \frac{\Phi}{\Delta T} - U_g \cdot b_g = \frac{13,562}{20,000} - 1,169 \cdot 0,189 = \frac{0,06781}{0,116} = 0,58457 \text{ W/(m}^2 \cdot \text{K)}$$

Material	λ [W/(m·K)]	ϵ	Boundary Condition	q [W/m ²]	θ [°C]	R [(m ² ·K)/W]	ϵ
Aluminium (Si Alloys)	160,000	0,900	Epsilon 0.9				0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900	Exterior, frame	0,000	0,040		
Finli Kıl Fıtıl	0,250	0,900	Interior, frame, normal	20,000	0,130		
PVC (polyvinylchloride), rigid	0,170	0,900	Interior, frame, reduced	20,000	0,200		
Panel	0,035	0,900	Symmetry/Model section	0,000			
Polyamid 6.6 with 25% glass fibre	0,300	0,900					
Slightly ventilated air cavity							
Unventilated air cavity							

MAESTRO 89 Insulated Sliding

TERMAL PERFORMANS DEĞERLERİ THERMAL PERFORMANCE VALUES



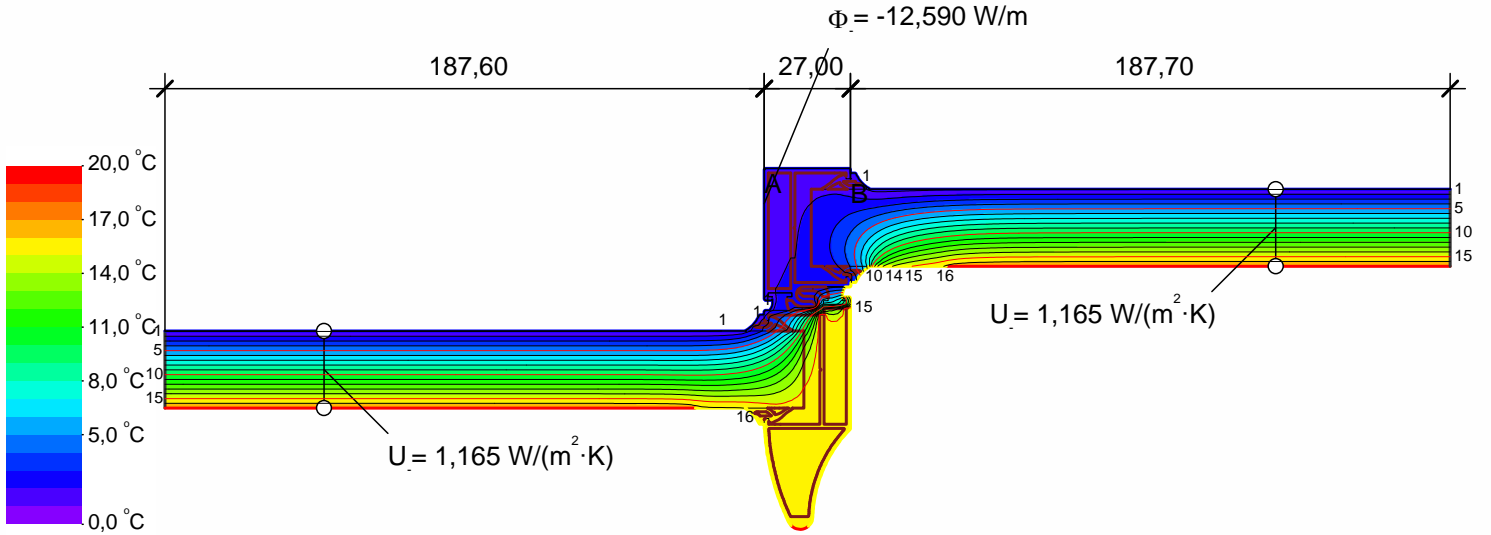
TERMAL HESAP KOŞULLARI!
THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI: 0°C
(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI: 20°C
(ROOM TEMPERATURE)

BAĞIL NEM: %50
(RELATIVE HUMIDITY)

KESİT-2



$$U_{TJ,A,B} = \frac{\Phi}{\Delta T} - \frac{U_{g1} \cdot b_{g1} - U_{g2} \cdot b_{g2}}{b_f} = \frac{12,590}{20,000} - \frac{1,165 \cdot 0,188 - 1,165 \cdot 0,188}{0,027} = 7,13 \text{ W/(m}^2 \cdot \text{K)}$$

Material	λ [W/(m·K)]	ϵ	Boundary Condition	q [W/m ²]	θ [°C]	R [(m ² ·K)/W]	ϵ
Aluminium (Si Alloys)	160,000	0,900	Epsilon 0.9				0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900	Exterior, frame	0,000	0,040		
Finli Kıl Fıtil	0,250	0,900	Interior, frame, normal	20,000	0,130		
Panel	0,035	0,900	Interior, frame, reduced	20,000	0,200		
Unventilated air cavity			Symmetry/Model section	0,000			

MAESTRO 89 Insulated Sliding

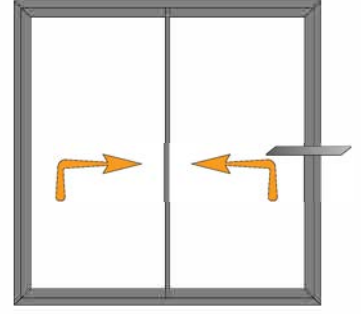
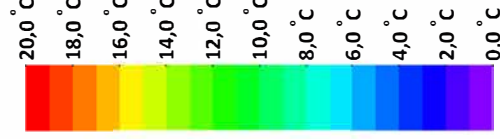
TERMAL PERFORMANS DEĞERLERİ THERMAL PERFORMANCE VALUES

TERMAL HESAP KOŞULLARI
THERMAL CALCULATION CONDITIONS

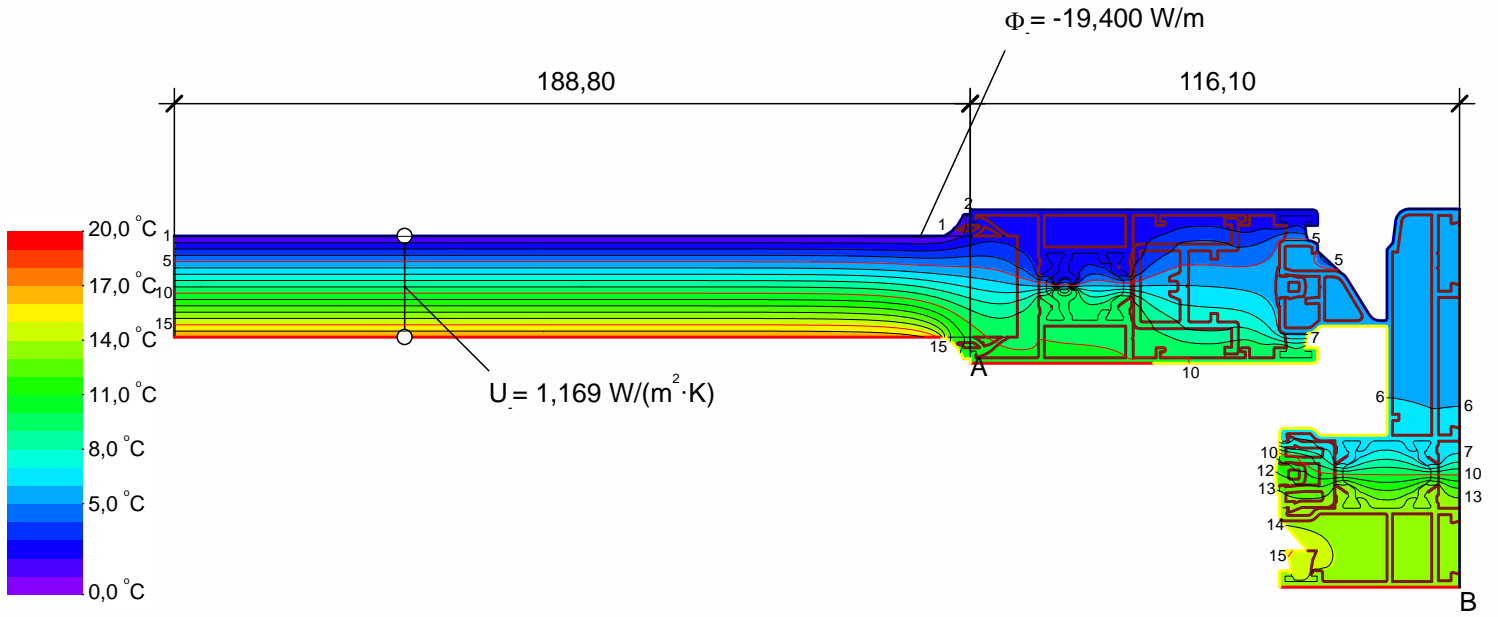
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(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI: 20°C
(ROOM TEMPERATURE)

BAĞIL NEM: %50
(RELATIVE HUMIDITY)



KESİT-3



$$U_{TJ,A,B} = \frac{\frac{\Phi}{\Delta T} - U_g \cdot b_g}{b_f} = \frac{\frac{19,400}{20,000} - 1,169 \cdot 0,189}{0,116} = 6,45 \text{ W/(m}^2 \cdot \text{K)}$$

Material	λ [W/(m·K)]	ϵ	Boundary Condition	q [W/m ²]	θ [°C]	R [(m ² ·K)/W]	ϵ
Aluminium (Si Alloys)	160,000	0,900	Epsilon 0.9				0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900	Exterior, frame	0,000	0,040		
Finli Kıl Fıtlı	0,250	0,900	Interior, frame, normal	20,000	0,130		
PVC (polyvinylchloride), rigid	0,170	0,900	Interior, frame, reduced	20,000	0,200		
Panel	0,035	0,900	Symmetry/Model section	0,000			
Polyamid 6.6 with 25% glass fibre	0,300	0,900					
Slightly ventilated air cavity							
Unventilated air cavity							

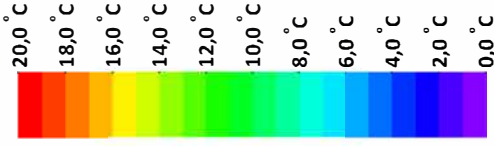
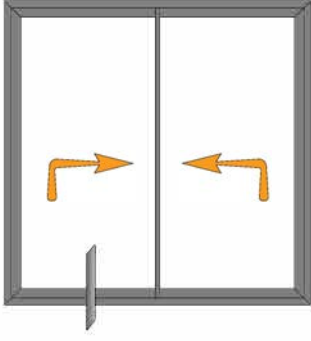
FERMOSA

SYSTEM

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MAESTRO 89 Insulated Sliding

TERMAL PERFORMANS DEĞERLERİ THERMAL PERFORMANCE VALUES



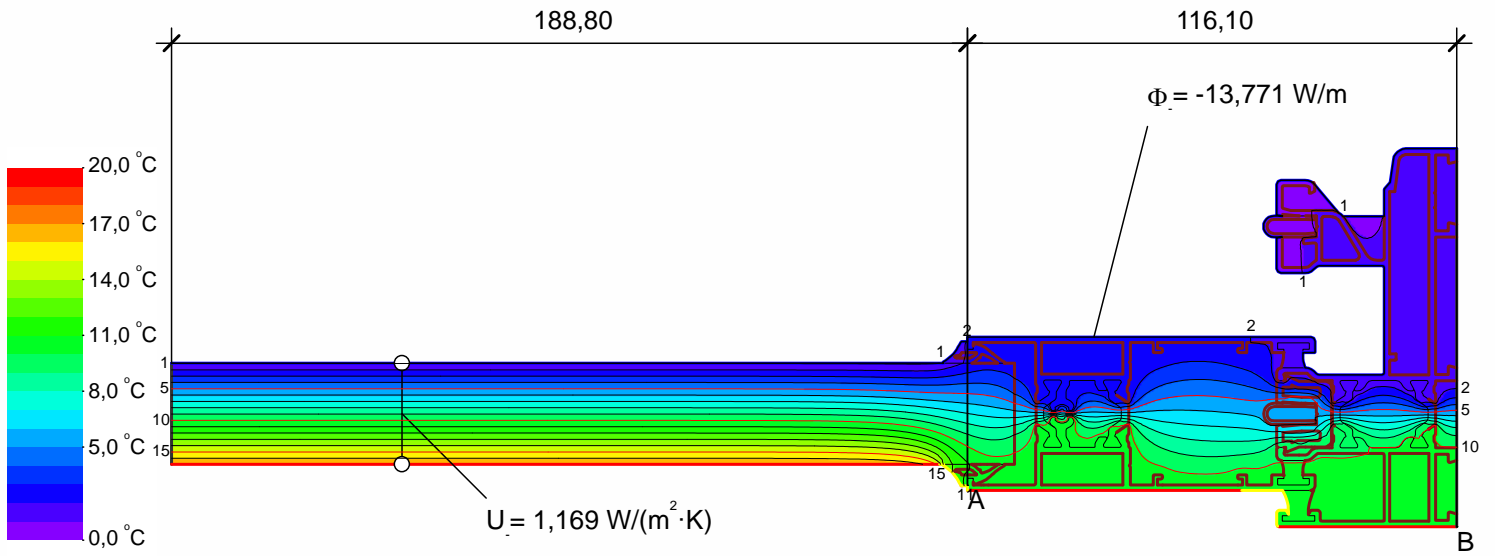
TERMAL HESAP KOŞULLARI!
THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI: 0°C
(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI: 20°C
(ROOM TEMPERATURE)

BAĞIL NEM: %50
(RELATIVE HUMIDITY)

KESİT-4



$$U_{TJ,A,B} = \frac{\frac{\Phi}{\Delta T} - U_g \cdot b_g}{b_f} = \frac{\frac{13,771}{20,000} - 1,169 \cdot 0,189}{0,116} = 4,03 \text{ W/(m}^2 \cdot \text{K)}$$

Material	λ [W/(m·K)]	ϵ	Boundary Condition	q [W/m ²]	θ [°C]	R [(m ² ·K)/W]	ϵ
Aluminium (Si Alloys)	160,000	0,900	Epsilon 0.9				0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900	Exterior, frame	0,000	0,040		
Finli Kıl Fıtil	0,250	0,900	Interior, frame, normal	20,000	0,130		
PVC (polyvinylchloride), rigid	0,170	0,900	Interior, frame, reduced	20,000	0,200		
Panel	0,035	0,900	Symmetry/Model section	0,000			
Polyamid 6.6 with 25% glass fibre	0,300	0,900					
Slightly ventilated air cavity							
Unventilated air cavity							
Çelik Ray	50,000	0,900					

MAESTRO 89 Insulated Sliding

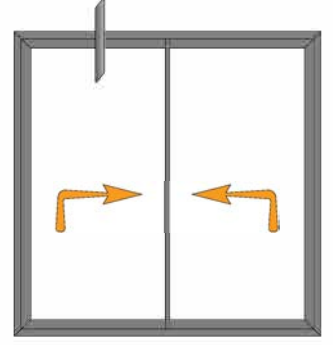
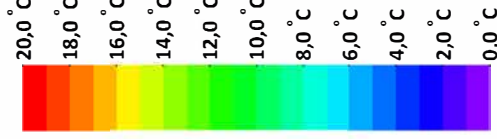
TERMAL PERFORMANS DEĞERLERİ THERMAL PERFORMANCE VALUES

TERMAL HESAP KOŞULLARI
THERMAL CALCULATION CONDITIONS

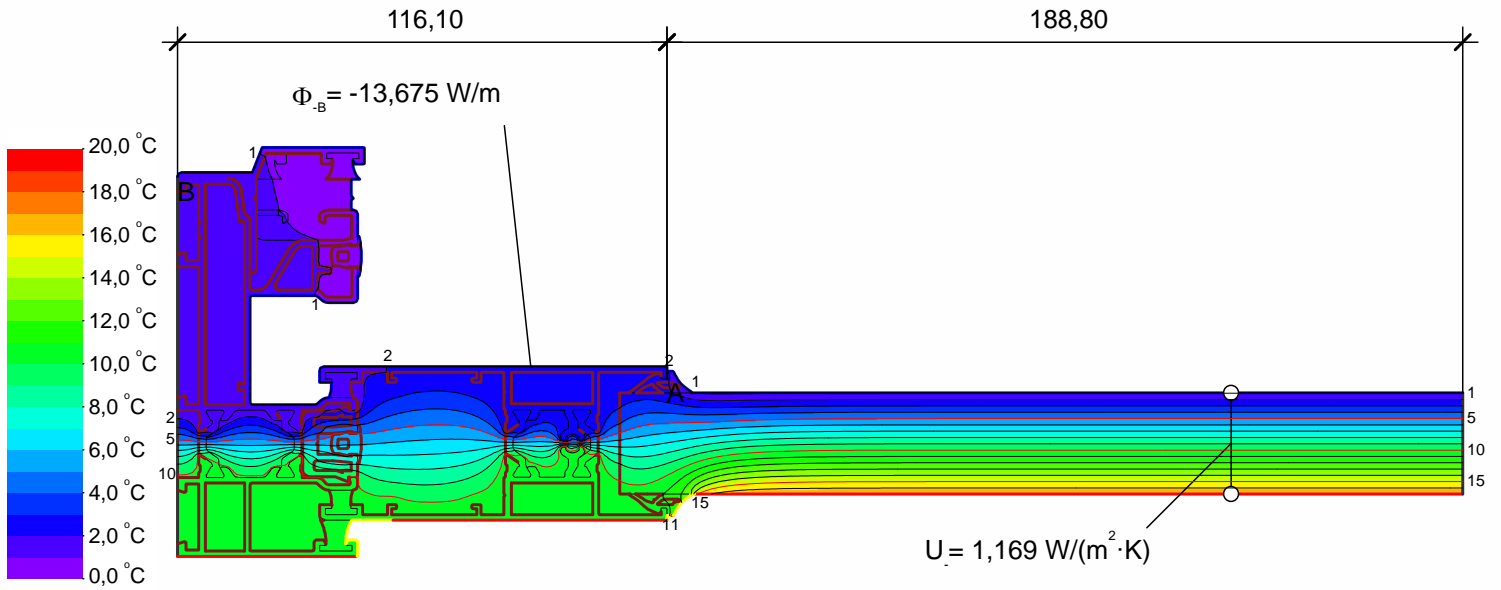
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(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI: 20°C
(ROOM TEMPERATURE)

BAĞIL NEM: %50
(RELATIVE HUMIDITY)



KESİT-5

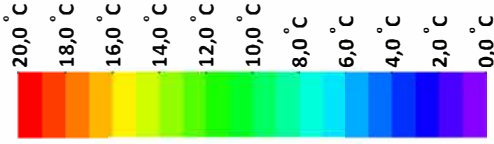
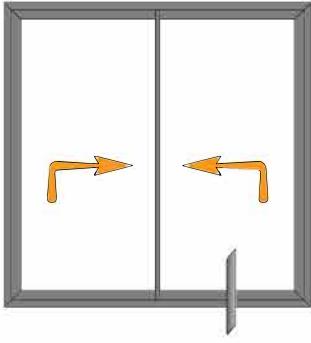


$$U_{TJ,A,B} = \frac{\frac{\Phi}{\Delta T} - U_g \cdot b_g}{b_f} = \frac{\frac{13,675}{20,000} - 1,169 \cdot 0,189}{0,116} = 3,99 \text{ W/(m}^2 \cdot \text{K)}$$

Material	λ [W/(m·K)]	ϵ	Boundary Condition	q [W/m ²]	θ [°C]	R [(m ² ·K)/W]	ϵ
Aluminium (Si Alloys)	160,000	0,900	Epsilon 0.9				0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900	Exterior, frame	0,000	0,040		
Finli Kil Fıtıl	0,250	0,900	Interior, frame, normal	20,000	0,130		
PVC (polyvinylchloride), rigid	0,170	0,900	Interior, frame, reduced	20,000	0,200		
Panel	0,035	0,900	Symmetry/Model section	0,000			
Polyamid 6.6 with 25% glass fibre	0,300	0,900					
Slightly ventilated air cavity							
Unventilated air cavity							

MAESTRO 89 Insulated Sliding

TERMAL PERFORMANS DEĞERLERİ THERMAL PERFORMANCE VALUES



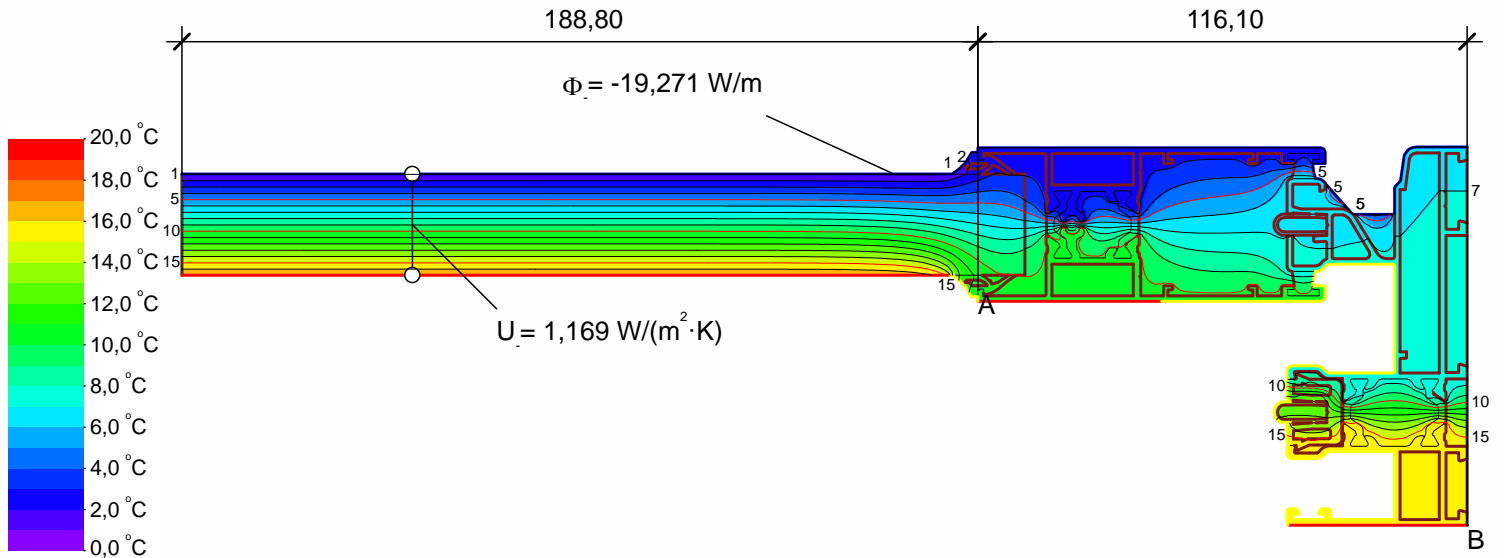
TERMAL HESAP KOŞULLARI!
THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI: 0°C
(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI: 20°C
(ROOM TEMPERATURE)

BAĞIL NEM: %50
(RELATIVE HUMIDITY)

KESİT-6



$$U_{TJ,A,B} = \frac{\frac{\Phi}{\Delta T} - U_g \cdot b_g}{b_f} = \frac{\frac{19,271}{20,000} - 1,169 \cdot 0,189}{0,116} = 6,40 \text{ W/(m}^2 \cdot \text{K)}$$

Material	λ [W/(m·K)]	ϵ	Boundary Condition	q [W/m ²]	θ [°C]	R [(m ² ·K)/W]	ϵ
Aluminium (Si Alloys)	160,000	0,900	Epsilon 0.9				0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900	Exterior, frame	0,000		0,040	
Finli Kil Fiti	0,250	0,900	Interior, frame, normal	20,000		0,130	
PVC (polyvinylchloride), rigid	0,170	0,900	Interior, frame, reduced	20,000		0,200	
Panel	0,035	0,900	Symmetry/Model section	0,000			
Polyamid 6.6 with 25% glass fibre	0,300	0,900					
Slightly ventilated air cavity							
Unventilated air cavity							
Çelik Ray	50,000	0,900					

MAESTRO 89 Insulated Sliding

EKONOMİK SÜRME DOĞRAMA SİSTEMİ ECONOMICAL SLIDING DOOR SYSTEM



TEKNİK ÖZELLİKLER TECHNICAL PROPERTIES

KASA DERİNLİĞİ / FRAME DEPTH :	89,7 mm , 134,3mm
KANAT DERİNLİĞİ / VENT DEPTH :	36.4 mm
PROFİL ET KALINLIĞI / PROFILE WALL THICKNESS :	1,3 mm-1,5mm
MAX. CAM KALINLIĞI / MAX. GLASS THICKNESS :	24 mm
ISI BARIYERLERİ / INSULATION BARS :	16 mm
ISI YALITIM DEĞERİ (Uf)-EN1077-2 / THERMAL INSULATION VALUE (Uf) :	(Uf): < 3,60 W/m ² K

KULLANIM SEÇENEKLERİ

APPLICATION ALTERNATIVES	PENCERE WINDOW	KAPI DOOR
NORMAL SÜRME / SLIDING(HB) :	●	●
SABİT KASA / FIXED FRAME :	●	●
ÜÇ RAYLI KASA / THREE RAILED FRAME :	●	●
KENDİNDEN SİNEKLİKLİ KASA / SELF-INSECT SCREEN FRAME :	●	●

TEKNİK ÖZELLİKLER / TECHNICAL PROPERTIES

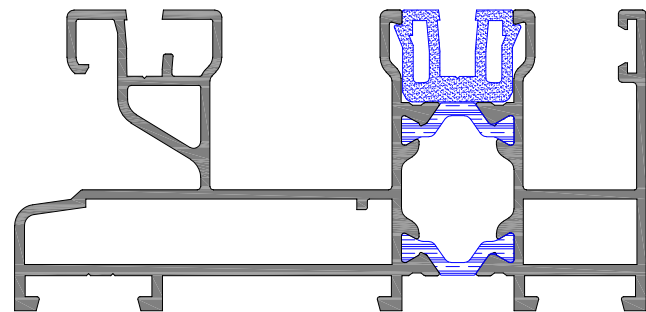
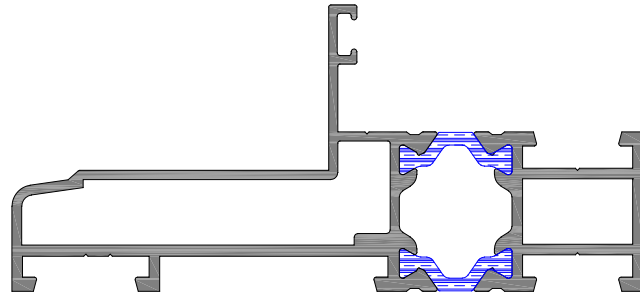
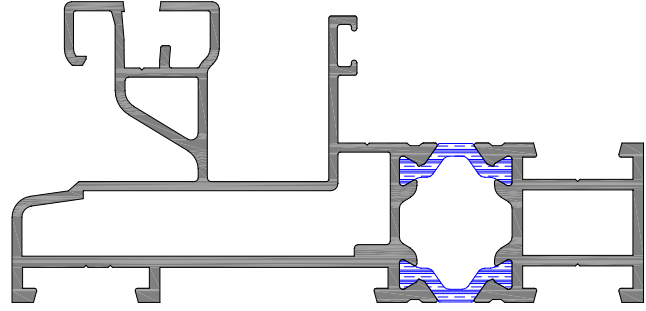
FERMO SA

SYSTEM

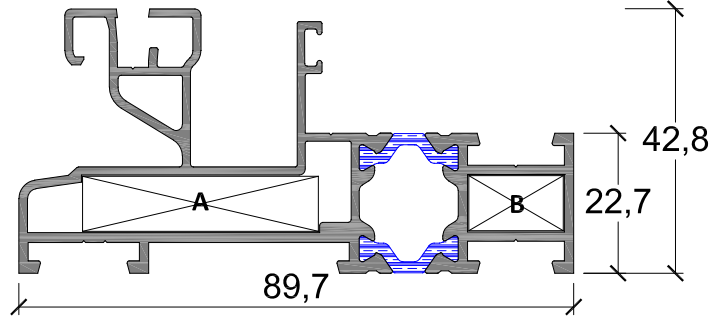
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SİSTEM PROFİLLERİ

SYSTEM PROFILES



MAESTRO 89 Insulated Sliding



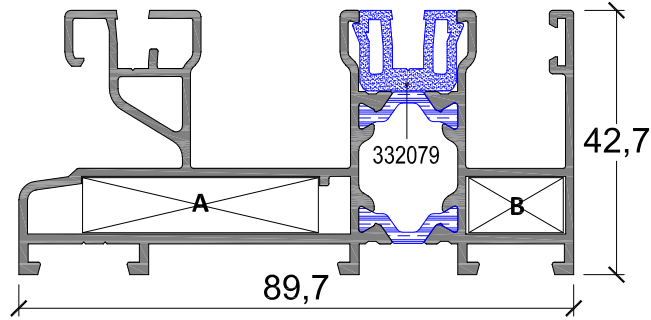
MS-8939

KÖŞE TAKOZLARI

CORNER CLEATS

111350: A (Pres / Press)

111345: B (Pres / Press)



MS-8940

KÖŞE TAKOZLARI

CORNER CLEATS

111350: A (Pres / Press)

111345: B (Pres / Press)

PROFİL NUMARASI PROFILE NO.	Jx (cm ⁴)	Jy (cm ⁴)	AĞIRLIK WEIGHT (kg/m)
MS-8939	49,81	5,98	1,528
MS-8940	10,57	46,13	1,814

SİSTEM PROFİLLERİ / SYSTEM PROFILE

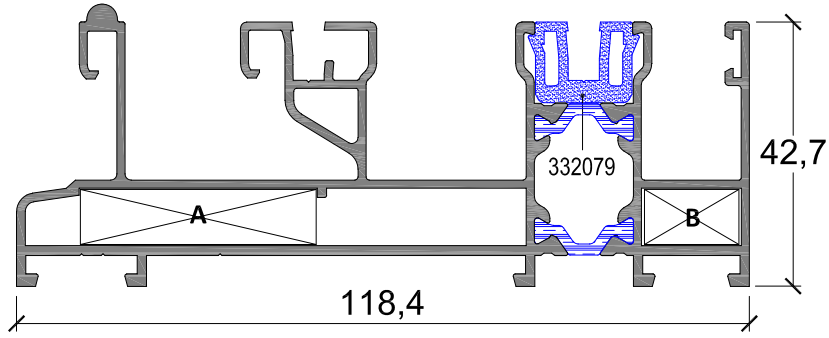
FERMO SA

SYSTEM

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MAESTRO 89 Insulated Sliding

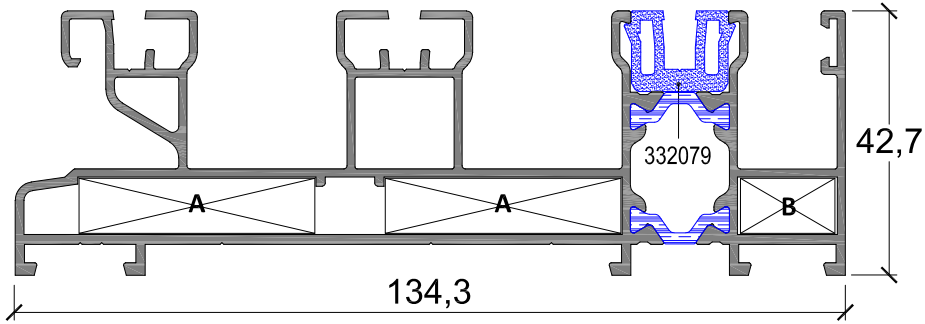


MS-8941

KÖŞE TAKOZLARI
CORNER CLEATS

111350: A (Pres / Press)

111345: B (Pres / Press)



MS-8942

KÖŞE TAKOZLARI
CORNER CLEATS

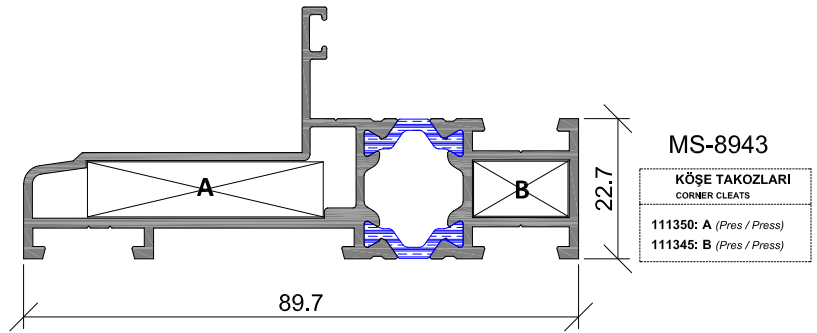
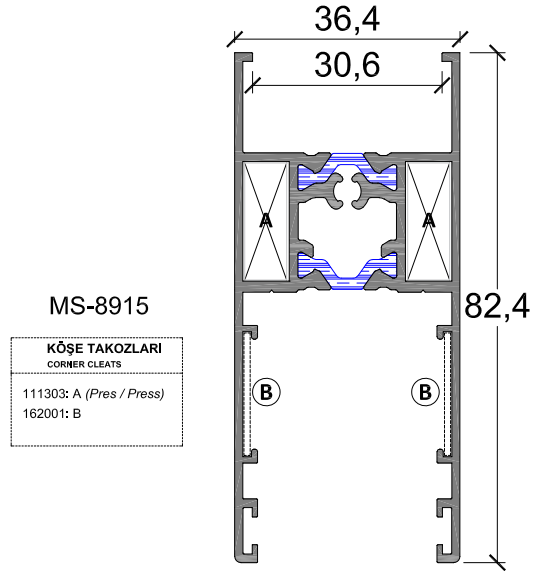
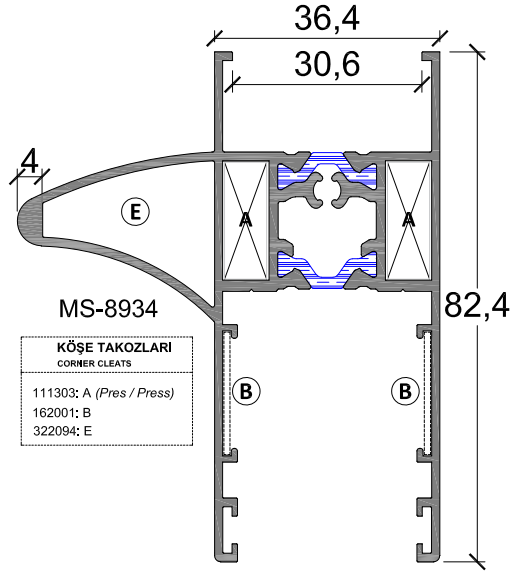
111350: A (Pres / Press)

111345: B (Pres / Press)

PROFİL NUMARASI PROFILE NO.	Jx (cm ⁴)	Jy (cm ⁴)	AĞIRLIK WEIGHT (kg/m)
MS-8941	10,55	45,58	2,217
MS-8942	32,57	46,13	2,481

SİSTEM PROFİLLERİ / SYSTEM PROFILE

MAESTRO 89 Insulated Sliding



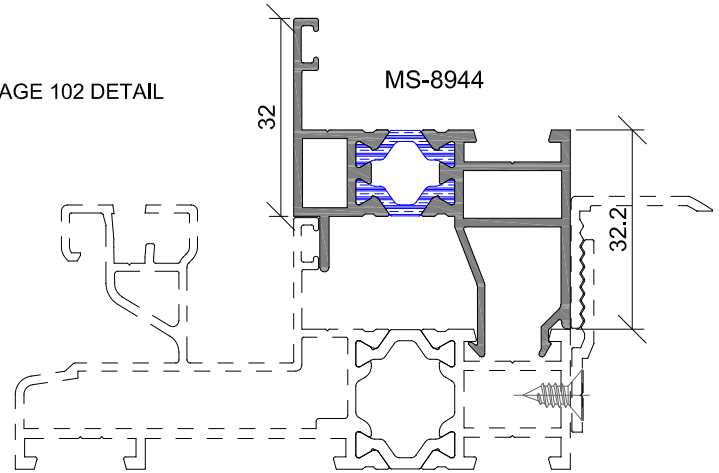
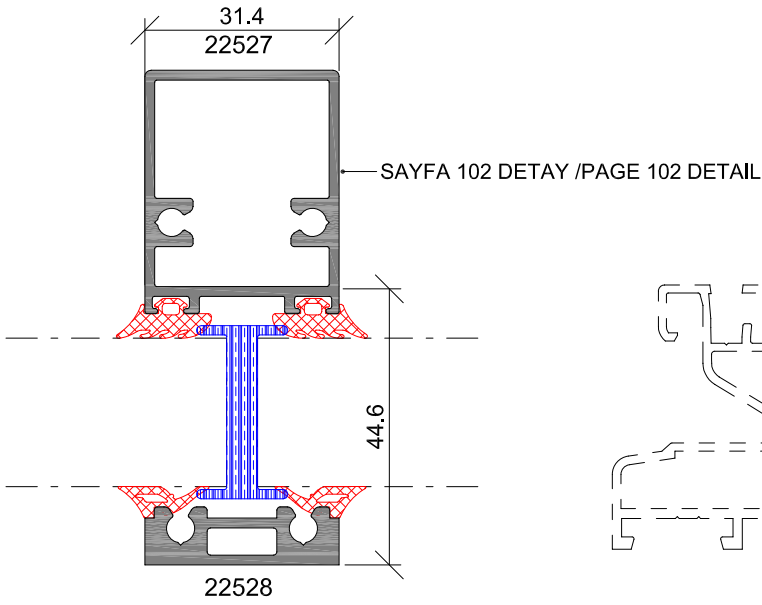
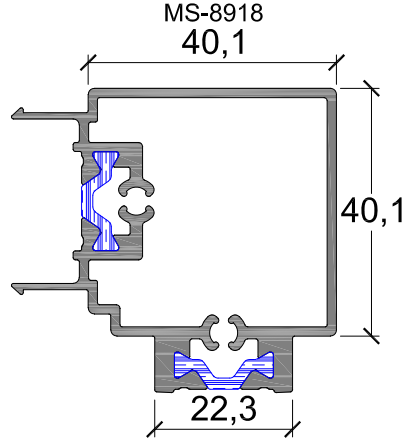
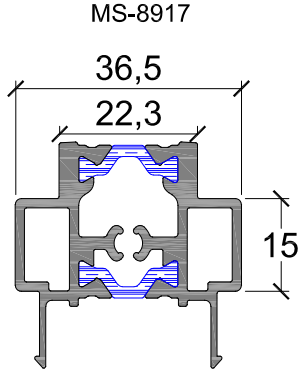
PROFİL NUMARASI PROFILE NO.	Jx (cm ⁴)	Jy (cm ⁴)	AĞIRLIK WEIGHT (kg/m)
MS-8915	21,22	9,30	1,302
MS-8934	21,76	23,01	1,643
MS-8943	35,94	32,36	1,385

SİSTEM PROFİLLERİ / SYSTEM PROFILE

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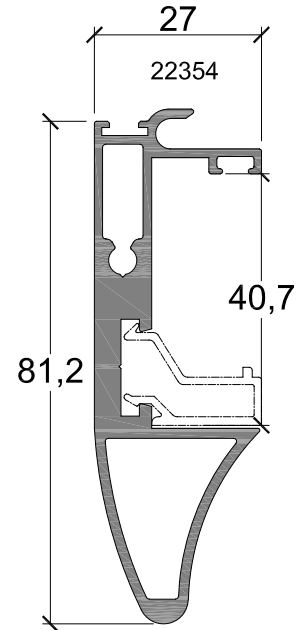
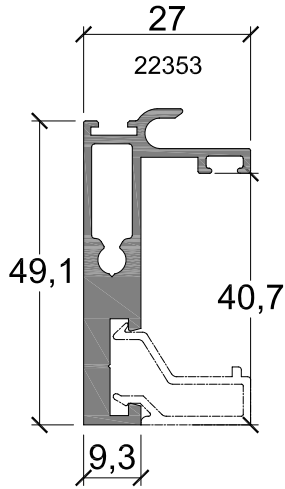
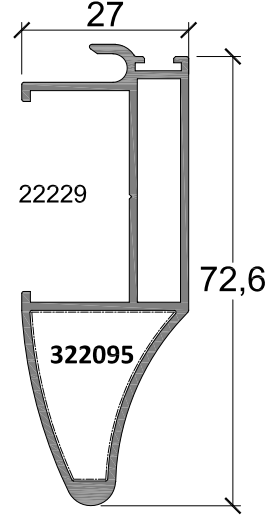
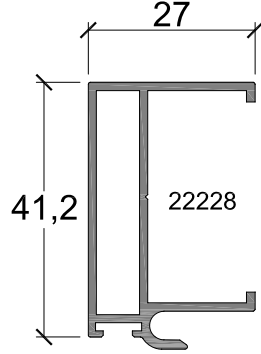
MAESTRO 89 Insulated Sliding



PROFİL NUMARASI PROFILE NO.	Jx (cm ⁴)	Jy (cm ⁴)	AĞIRLIK WEIGHT (kg/m)
MS-8917	59,98	4,63	1,223
MS-8918	10,15	16,20	1,331
MS-8944	-	-	0,988
22528	-	-	0,481
22527	-	-	0,761

SİSTEM PROFİLLERİ / SYSTEM PROFILE

MAESTRO 89 Insulated Sliding



SİSTEM PROFİLLERİ / SYSTEM PROFILE

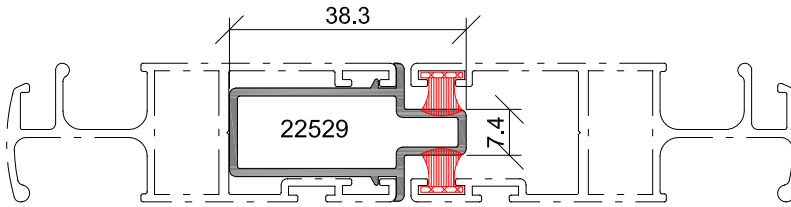
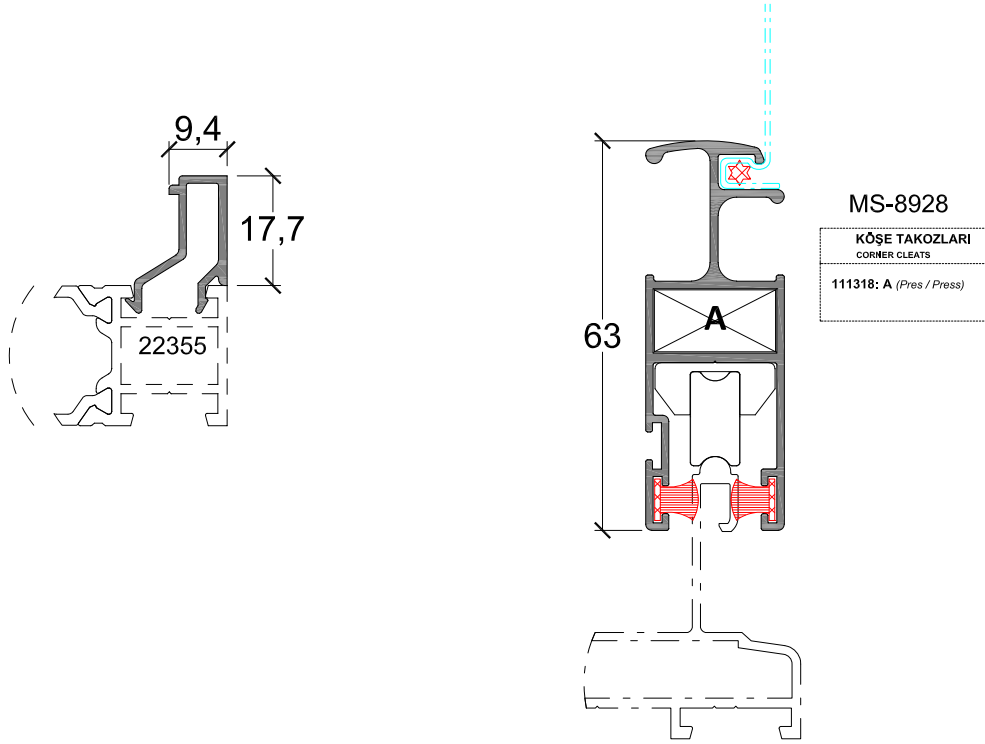
PROFİL NUMARASI PROFILE NO.	Jx (cm ⁴)	Jy (cm ⁴)	AĞIRLIK WEIGHT (kg/m)
22228	13,15	4,40	0,520
22229	16,74	15,60	0,798
22353	17,57	18,51	0,814
22354	59,98	4,63	1,267

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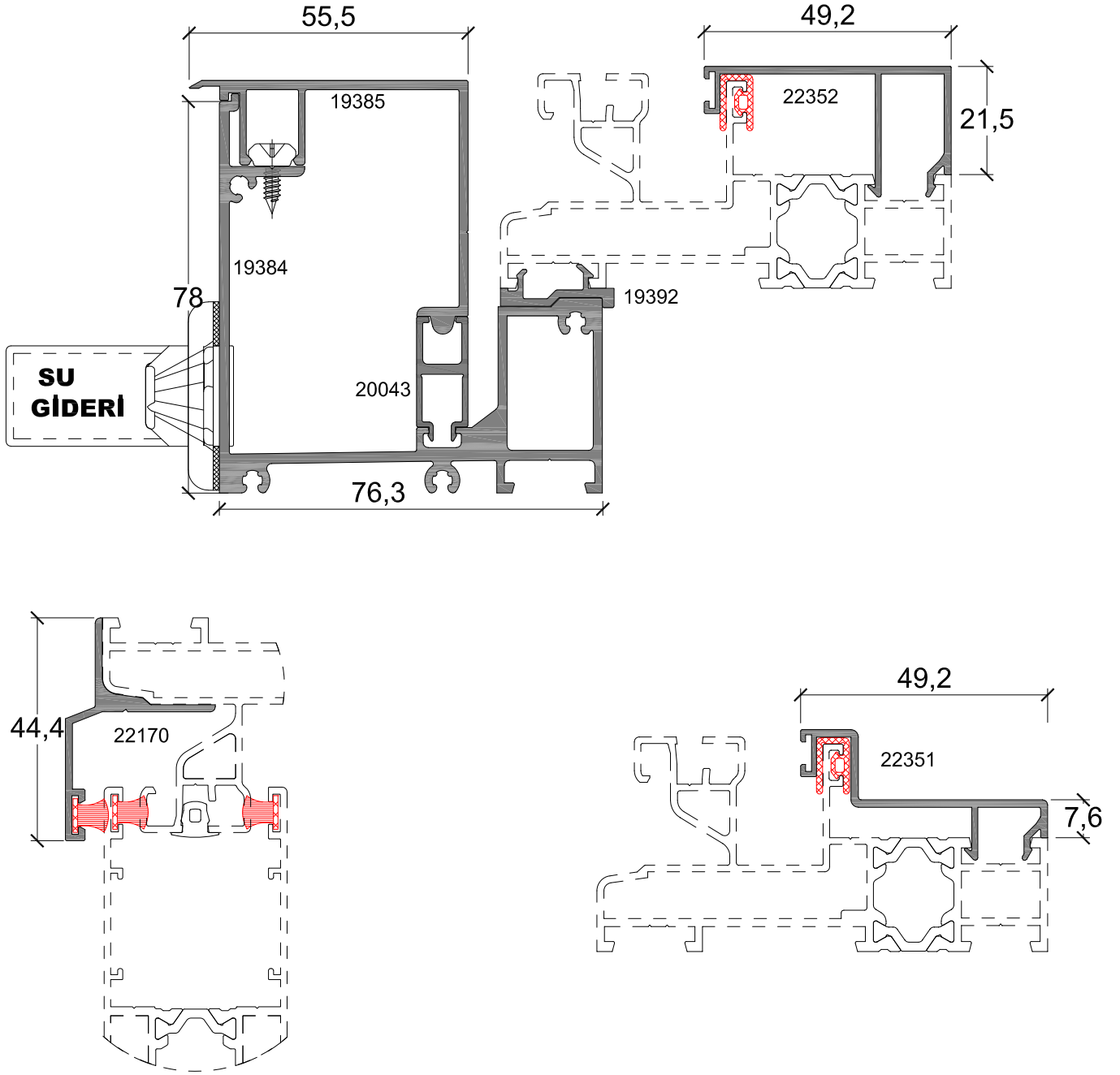
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PROFİL NUMARASI PROFILE NO.	Jx (cm ⁴)	Jy (cm ⁴)	AĞIRLIK WEIGHT (kg/m)
22355	-	-	0,210
22529	-	-	0,384
MS-8928	-	-	0,703

SİSTEM PROFİLLERİ / SYSTEM PROFILE

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SİSTEM PROFİLLERİ / SYSTEM PROFILE

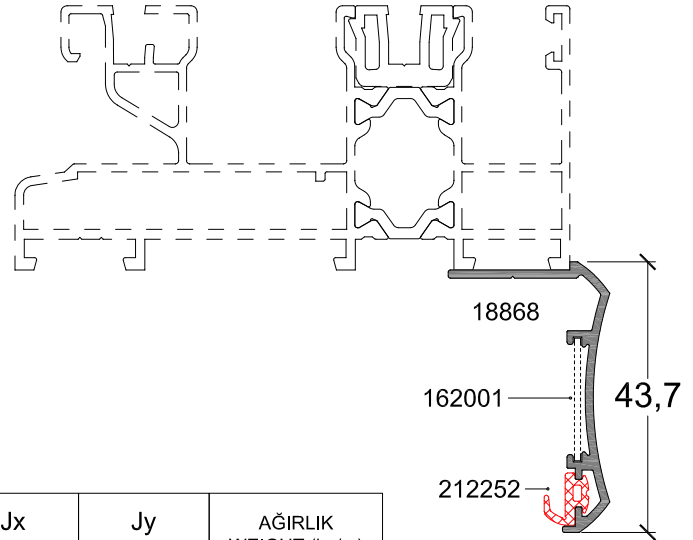
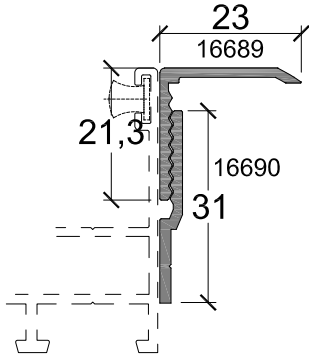
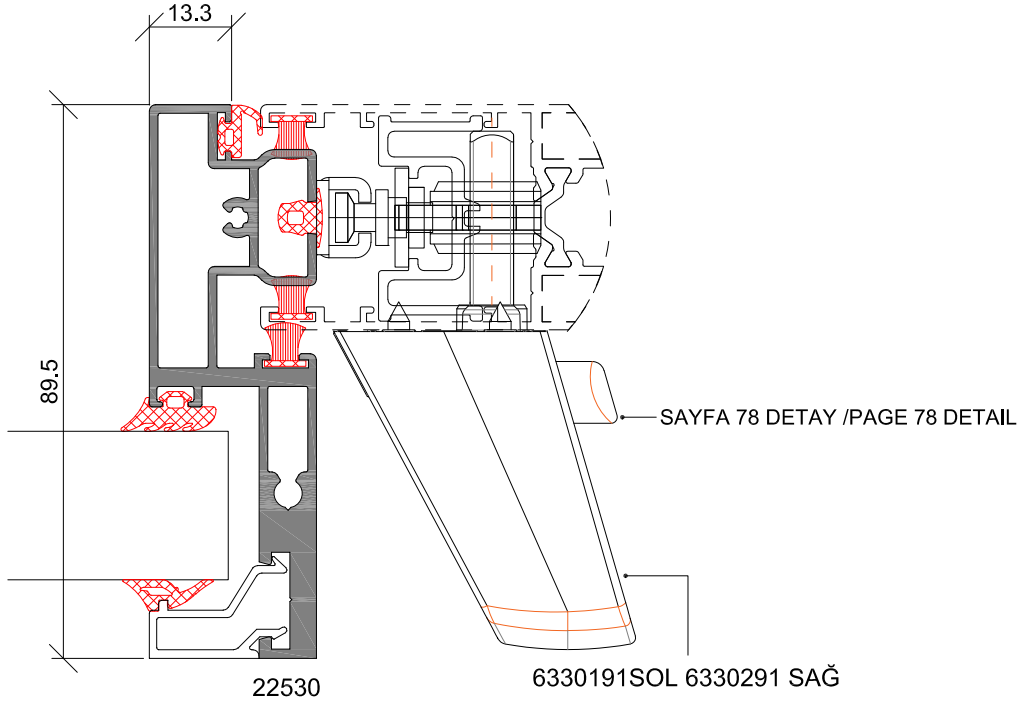
PROFİL NUMARASI PROFILE NO.	Jx (cm ⁴)	Jy (cm ⁴)	AĞIRLIK WEIGHT (kg/m)
22352	-	-	0,419
22351	-	-	0,374
22170	-	-	0,341
19385	-	-	0,662
19384	-	-	1,766
20043	-	-	0,551
19392	-	-	0,183

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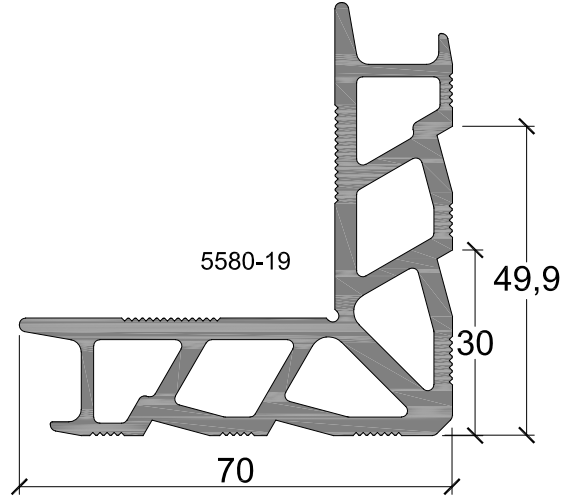
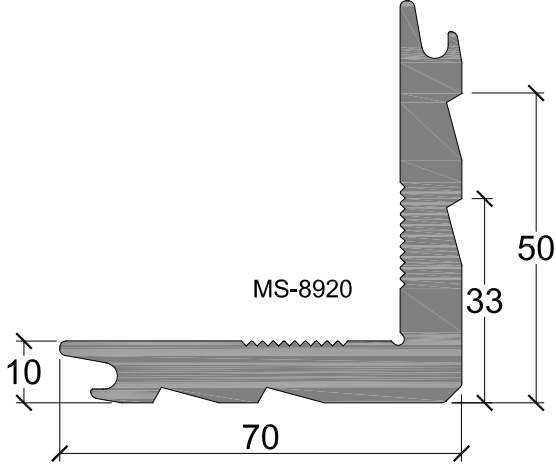
MAESTRO 89 Insulated Sliding



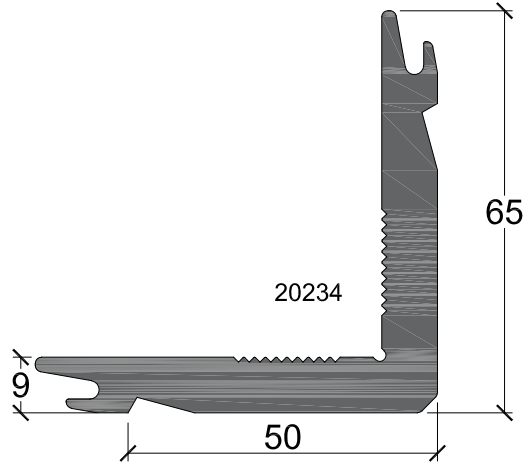
PROFİL NUMARASI PROFILE NO.	Jx (cm ⁴)	Jy (cm ⁴)	AĞIRLIK WEIGHT (kg/m)
22530	47,82	4,54	1,588
18866	-	-	0,455
19689	-	-	0,184
19690	-	-	0,154

SİSTEM PROFİLLERİ / SYSTEM PROFILE

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PROFİL NUMARASI PROFILE NO.	AĞIRLIK WEIGHT (kg/m)
5580-19	2,710
20234	2,553
MS-8920	2,748



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STATİK HESAPLAMALARDA KABULLER

THE ACCEPTANCES OF STATIC CALCULATIONS

STATİK HESAPLARDA KULLANILAN STANDARTLAR (STANDARDS USING WITH STATIC CALCULATIONS):

TS 498 (DİN 1055), TS EN 13830

STATİK HESAPLARDA KULLANILAN YÜKLER (LOADS USING WITH STATIC CALCULATIONS):

1-Yatay Rüzgar Yükleri (Horizontal Wind Load)

2-Düşey Cam Yükleri (Vertical Glass Load)

3-Kar Yükleri (Snow Load)

Rüzgar Yükleri (Wind Load) :

Statik hesaba başlamadan önce rüzgar şekil katsayısı tayin edilerek binanın yüksekliğine göre aşağıdaki tablodan seçilen rüzgar yükü referans değer olarak alınır. (Before the static calculation, first determine the shape coefficient of wind and then according to the height of the building select the wind load value from the table below.)

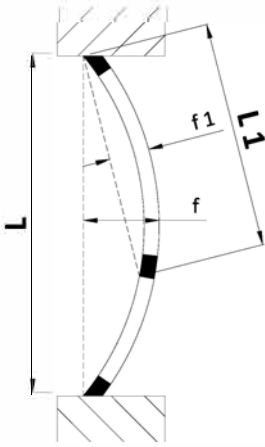
Rüzgar şekil katsayısı (Shape coefficient of wind) :

Binanın boyu (height of building) / binanın en dar eni (minimum width of building) < 5 : C = 1.2

Binanın boyu (height of building) / binanın en dar eni (minimum width of building) > 5 : C = 1.6

RÜZGAR ŞEKİL KATSAYISI SHAPE COEFFICIENT OF WIND	ZEMİNDEN YÜKSEKLİK (m) GROUND ELEVATION	RÜZGAR HIZI (m/s) WIND SPEED	HIZ BASINCI (kg/m ²) ABSORPTION	RÜZGAR YÜKÜ (kg/m ²) WIND LOAD
1.2	0 - 8	28	50	60
	9 - 20	36	80	96
	21 - 100	42	110	132
	> 100	46	130	156
1.6	0 - 8	28	50	80
	9 - 20	36	80	128
	21 - 100	42	110	176
	> 100	46	130	208

STATİK HESAPLARDA SEHİM KABULÜ (DEFLECTION ACCEPTANCE OF STATIC CALCULATIONS):



Tek camlarda (at single glass);

MESNET AÇIKLIĞI SUPPORT CLEARNESS	AZAMI SEHİM MAXIMUM DEFLECTION
L < 3m	f = L / 200
L > 3m	f = L / 300

Çift camlarda (at double glass);

ARA KAYIT YOKSA ; (IF IT HAS NO TRANSOM)	
L ≥ 3m	f = max. 0,8cm
L < 2m	f = L / 200
ARA KAYIT VARSA ; (IF IT HAS TRANSOM)	
a) Camların boyları L1 ; (If the glass height L1)	
L1 ≤ 2,4m	f1 ≤ L1 / 300
L1 > 2,4m	f1 ≤ 0,8cm
b) Profillerin boyları L ; (If the profile length L)	
L ≤ 3m	f1 ≤ L / 200
L > 2m	f1 ≤ L / 300

KISALTMALARIN ANLAMLARI

EXPLANATIONS OF ABBREVIATIONS

W: Rüzgar yükü (Wind load)

c: Rüzgar şekil katsayısı (Wind shape c.)

q: Emme hız basıncı (Speed pressure)

V: Rüzgar hızı (Wind speed)

L: Düşey açıklık (Vertical clearance)

E: Elastisite modülü (Elasticity modulus)

f: Maksimum sehım (Max. deflection)

MAESTRO 89 Insulated Sliding

STATİK HESAPLAMALARDA KABULLER

THE ACCEPTANCES OF STATIC CALCULATIONS

STATİK HESAPLARDA KULLANILAN STANDARTLAR (STANDARDS USING WITH STATIC CALCULATIONS):

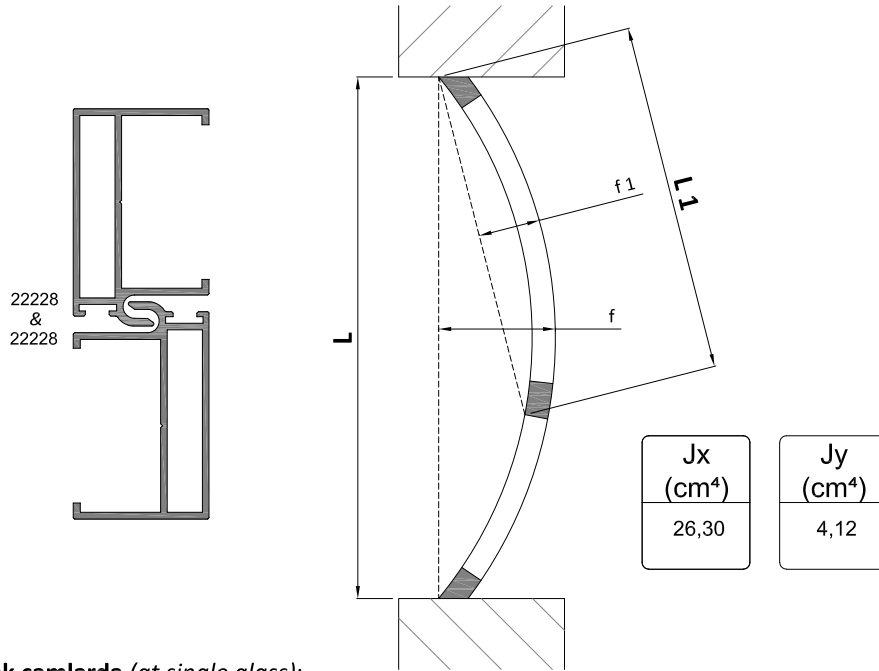
TS 498 (DIN 1055) , TS EN 13830

STATİK HESAPLARDA KULLANILAN YÜKLER (LOADS USING WITH STATIC CALCULATIONS):

1-Yatay Rüzgar Yükleri (Horizontal Wind Load)

2-Düşey Cam Yükleri (Vertical Glass Load)

3-Kar Yükleri (Snow Load)



Tek camlarda (at single glass);

MESNET AÇIKLIĞI SUPPORT CLEARNESS	AZAMI SEHİM MAXIMUM DEFLECTION
$L < 3m$	$f = L / 200$
$L > 3m$	$f = L / 300$

Çift camlarda (at double glass);

ARA KAYIT YOKSA ; (IF IT HAS NO TRANSOM)	
$L \geq 3m$	$f = \text{max. } 0,8cm$
$L < 2m$	$f = L / 200$
ARA KAYIT VARSA ; (IF IT HAS TRANSOM)	
a) Camların boyları $L1$; (If the glass height $L1$)	
$L1 \leq 2,4m$	$f1 \leq L1 / 300$
$L1 > 2,4m$	$f1 \leq 0,8cm$
b) Profillerin boyları L ; (If the profile length L)	
$L \leq 3m$	$f1 \leq L / 200$
$L > 2m$	$f1 \leq L / 300$

KISALTMALARIN ANLAMLARI

EXPLANATIONS OF ABBREVIATIONS

W: Rüzgar yükü (Wind load)

c: Rüzgar şekil katsayısı (Wind shape c.)

q: Emme hız basıncı (Speed pressure)

V: Rüzgar hızı (Wind speed)

L: Düşey açıklık (Vertical clearance)

E: Elastisite modülü (Elasticity modulus)

f: Maksimum sehım (Max. deflection)

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MAESTRO 89 Insulated Sliding

STATİK HESAPLAMALARDA KABULLER

THE ACCEPTANCES OF STATIC CALCULATIONS

STATİK HESAPLARDA KULLANILAN STANDARTLAR (STANDARDS USING WITH STATIC CALCULATIONS):

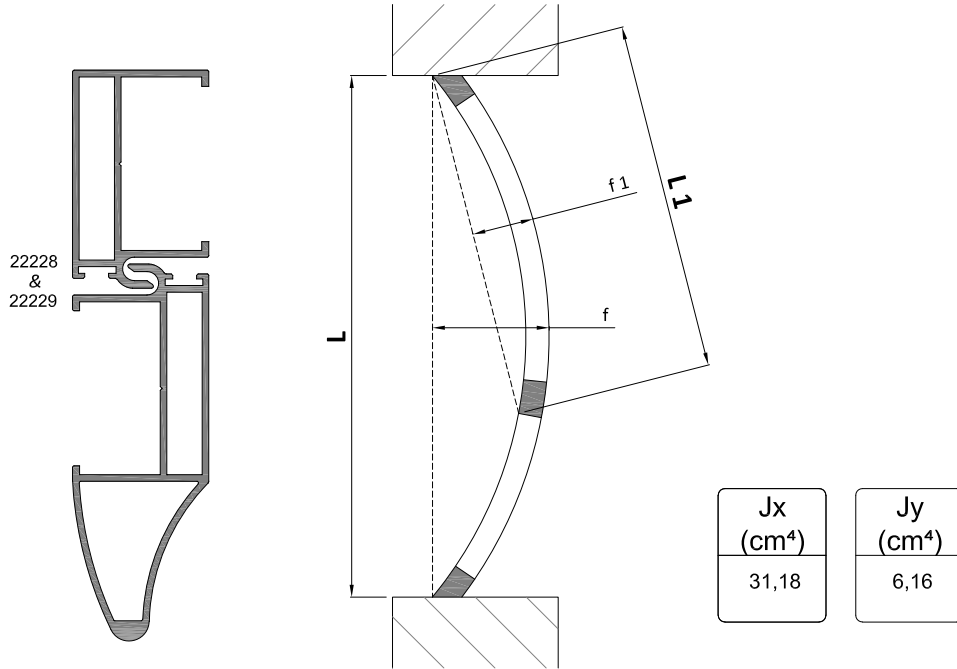
TS 498 (DIN 1055) , TS EN 13830

STATİK HESAPLARDA KULLANILAN YÜKLER (LOADS USING WITH STATIC CALCULATIONS):

1-Yatay Rüzgar Yükleri (Horizontal Wind Load)

2-Düşey Cam Yükleri (Vertical Glass Load)

3-Kar Yükleri (Snow Load)



Tek camlarda (at single glass);

MESNET AÇIKLIĞI SUPPORT CLEARNESS	AZAMI SEHİM MAXIMUM DEFLECTION
L < 3m	f = L / 200
L > 3m	f = L / 300

Çift camlarda (at double glass);

ARA KAYIT YOKSA ; (IF IT HAS NO TRANSOM)	
L ≥ 3m	f = max. 0,8cm
L < 2m	f = L / 200
ARA KAYIT VARSA ; (IF IT HAS TRANSOM)	
a) Camların boyları L1 ; (If the glass height L1)	
L1 ≤ 2,4m	f1 ≤ L1 / 300
L1 > 2,4m	f1 ≤ 0,8cm
b) Profillerin boyları L ; (If the profile length L)	
L ≤ 3m	f1 ≤ L / 200
L > 2m	f1 ≤ L / 300

KISALTMALARIN ANLAMLARI EXPLANATIONS OF ABBREVIATIONS

W: Rüzgar yükü (Wind load)

c: Rüzgar şekil katsayısı (Wind shape c.)

q: Emme hız basıncı (Speed pressure)

V: Rüzgar hızı (Wind speed)

L: Düşey açıklık (Vertical clearance)

E: Elastisite modülü (Elasticity modulus)

f: Maksimum sehım (Max. deflection)

MAESTRO 89 Insulated Sliding

STATİK HESAPLAMALARDA KABULLER

THE ACCEPTANCES OF STATIC CALCULATIONS

STATİK HESAPLARDA KULLANILAN STANDARTLAR (STANDARDS USING WITH STATIC CALCULATIONS):

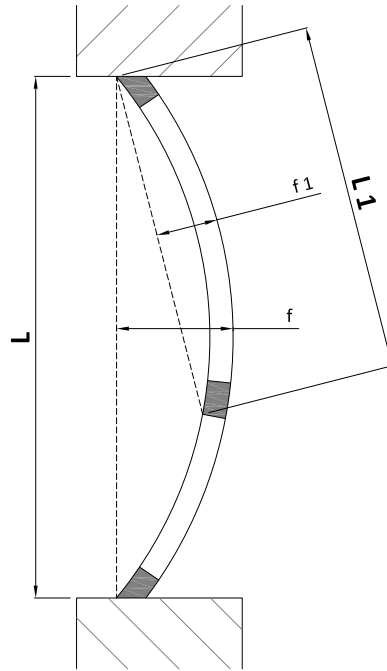
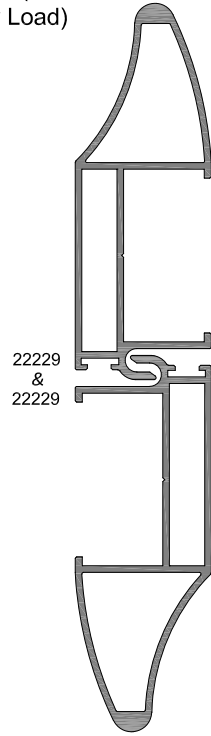
TS 498 (DIN 1055) , TS EN 13830

STATİK HESAPLARDA KULLANILAN YÜKLER (LOADS USING WITH STATIC CALCULATIONS):

1-Yatay Rüzgar Yükleri (Horizontal Wind Load)

2-Düşey Cam Yükleri (Vertical Glass Load)

3-Kar Yükleri (Snow Load)



Jx (cm ⁴)
42,93

Jy (cm ⁴)
9,34

Tek camlarda (at single glass);

MESNET AÇIKLIĞI SUPPORT CLEARNESS	AZAMI SEHİM MAXIMUM DEFLECTION
L < 3m	f = L / 200
L > 3m	f = L / 300

Çift camlarda (at double glass);

ARA KAYIT YOKSA ; (IF IT HAS NO TRANSOM)	
L ≥ 3m	f = max. 0,8cm
L < 2m	f = L / 200
ARA KAYIT VARSA ; (IF IT HAS TRANSOM)	
a) Camların boyları L1 ; (If the glass height L1)	
L1 ≤ 2,4m	f1 ≤ L1 / 300
L1 > 2,4m	f1 ≤ 0,8cm
b) Profillerin boyları L ; (If the profile length L)	
L ≤ 3m	f1 ≤ L / 200
L > 2m	f1 ≤ L / 300

KISALTMALARIN ANLAMLARI
EXPLANATIONS OF ABBREVIATIONS

W: Rüzgar yükü (Wind load)
c: Rüzgar şekil katsayısı (Wind shape c.)
q: Emme hız basıncı (Speed pressure)
V: Rüzgar hızı (Wind speed)
L: Düşey açıklık (Vertical clearance)
E: Elastisite modülü (Elasticity modulus)
f: Maksimum sehım (Max. deflection)

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STATİK HESAPLAMALARDA KABULLER

THE ACCEPTANCES OF STATIC CALCULATIONS

STATİK HESAPLARDA KULLANILAN STANDARTLAR (STANDARDS USING WITH STATIC CALCULATIONS):

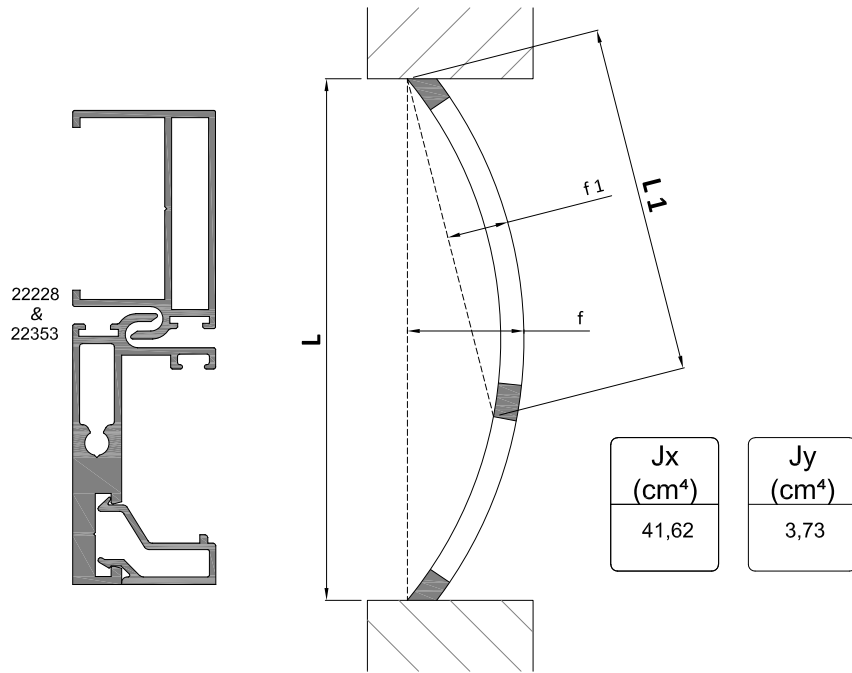
TS 498 (DIN 1055) , TS EN 13830

STATİK HESAPLARDA KULLANILAN YÜKLER (LOADS USING WITH STATIC CALCULATIONS):

1-Yatay Rüzgar Yükleri (Horizontal Wind Load)

2-Düşey Cam Yükleri (Vertical Glass Load)

3-Kar Yükleri (Snow Load)



Tek camlarda (at single glass);

MESNET AÇIKLIĞI SUPPORT CLEARNESS	AZAMI SEHİM MAXIMUM DEFLECTION
$L < 3m$	$f = L / 200$
$L > 3m$	$f = L / 300$

Çift camlarda (at double glass);

ARA KAYIT YOKSA ; (IF IT HAS NO TRANSOM)	
$L \geq 3m$	$f = \text{max. } 0,8\text{cm}$
$L < 2m$	$f = L / 200$
ARA KAYIT VARSA ; (IF IT HAS TRANSOM)	
a) Camların boyları L1 ; (If the glass height L1)	
$L1 \leq 2,4m$	$f1 \leq L1 / 300$
$L1 > 2,4m$	$f1 \leq 0,8\text{cm}$
b) Profillerin boyları L ; (If the profile length L)	
$L \leq 3m$	$f1 \leq L / 200$
$L > 2m$	$f1 \leq L / 300$

KISALTMALARIN ANLAMLARI
EXPLANATIONS OF ABBREVIATIONS

W: Rüzgar yükü (Wind load)

c: Rüzgar şekil katsayısı (Wind shape c.)

q: Emme hız basıncı (Speed pressure)

V: Rüzgar hızı (Wind speed)

L: Düşey açıklık (Vertical clearance)

E: Elastisite modülü (Elasticity modulus)

f: Maksimum sehım (Max. deflection)

MAESTRO 89 Insulated Sliding

STATİK HESAPLAMALARDA KABULLER

THE ACCEPTANCES OF STATIC CALCULATIONS

STATİK HESAPLARDA KULLANILAN STANDARTLAR (STANDARDS USING WITH STATIC CALCULATIONS):

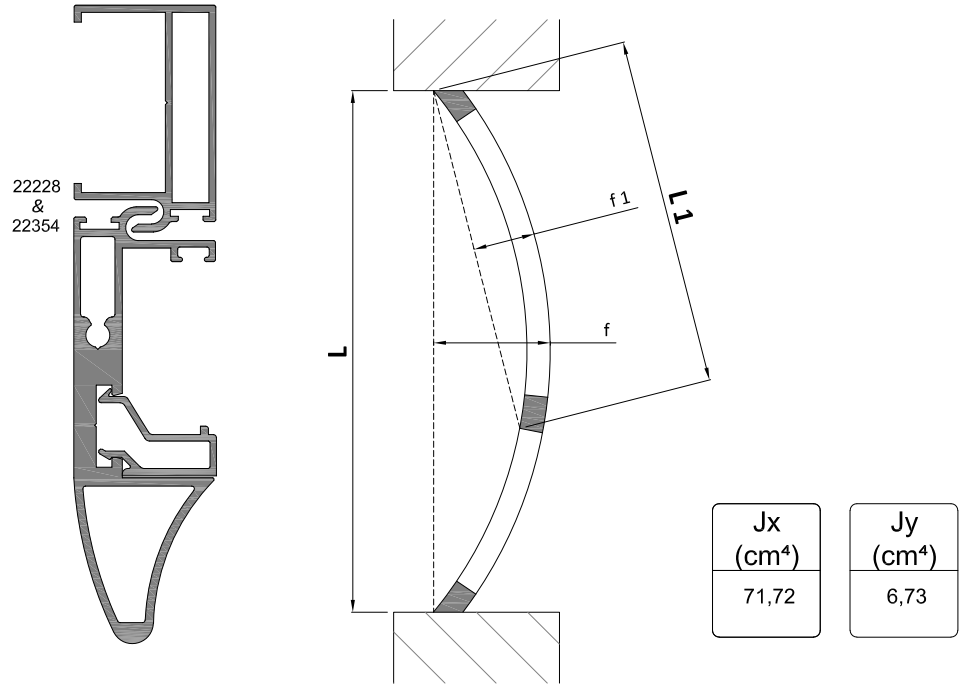
TS 498 (DIN 1055) , TS EN 13830

STATİK HESAPLARDA KULLANILAN YÜKLER (LOADS USING WITH STATIC CALCULATIONS):

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3-Kar Yükleri (Snow Load)



Tek camlarda (at single glass);

MESNET AÇIKLIĞI SUPPORT CLEARNESS	AZAMİ SEHİM MAXIMUM DEFLECTION
$L < 3m$	$f = L / 200$
$L > 3m$	$f = L / 300$

Çift camlarda (at double glass);

ARA KAYIT YOKSA ; (IF IT HAS NO TRANSOM)	
$L \geq 3m$	$f = \text{max. } 0,8cm$
$L < 2m$	$f = L / 200$
ARA KAYIT VARSA ; (IF IT HAS TRANSOM)	
a) Camların boyları L_1 ; (If the glass height L_1)	
$L_1 \leq 2,4m$	$f_1 \leq L_1 / 300$
$L_1 > 2,4m$	$f_1 \leq 0,8cm$
b) Profillerin boyları L ; (If the profile length L)	
$L \leq 3m$	$f_1 \leq L / 200$
$L > 2m$	$f_1 \leq L / 300$

KISALTMALARIN ANLAMLARI

EXPLANATIONS OF ABBREVIATIONS

- W:** Rüzgar yükü (Wind load)
c: Rüzgar şekil katsayısı (Wind shape c.)
q: Emme hız basıncı (Speed pressure)
V: Rüzgar hızı (Wind speed)
L: Düşey açıklık (Vertical clearance)
E: Elastisite modülü (Elasticity modulus)
f: Maksimum sehım (Max. deflection)

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STATİK HESAPLAMALARDA KABULLER

THE ACCEPTANCES OF STATIC CALCULATIONS

STATİK HESAPLARDA KULLANILAN STANDARTLAR (STANDARDS USING WITH STATIC CALCULATIONS):

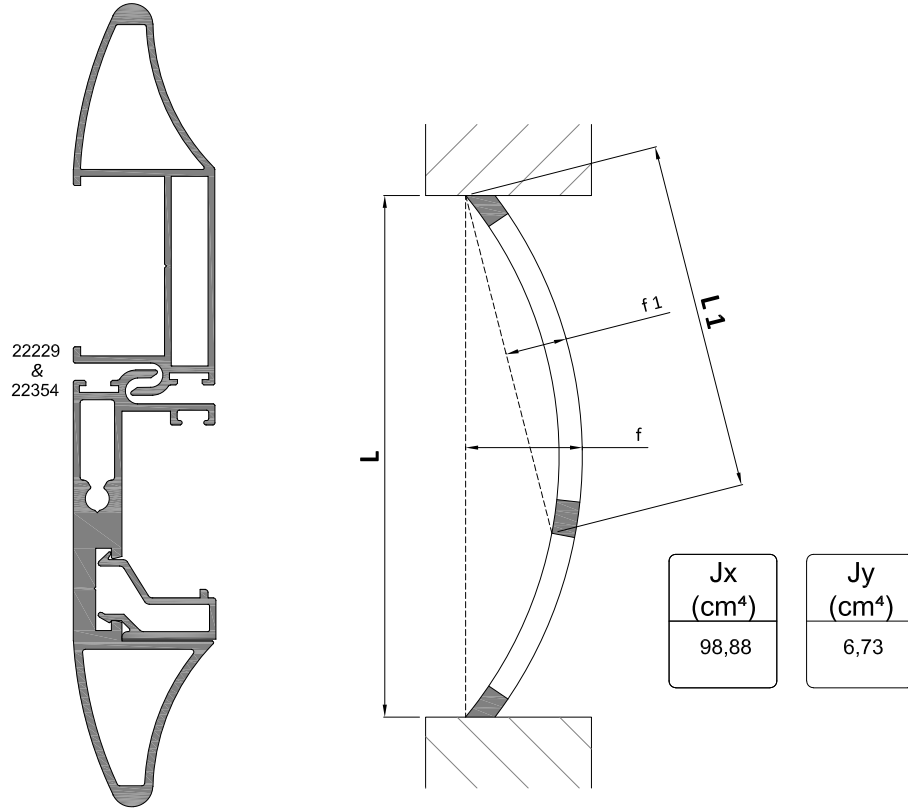
TS 498 (DIN 1055) , TS EN 13830

STATİK HESAPLARDA KULLANILAN YÜKLER (LOADS USING WITH STATIC CALCULATIONS):

1-Yatay Rüzgar Yükleri (Horizontal Wind Load)

2-Düşey Cam Yükleri (Vertical Glass Load)

3-Kar Yükleri (Snow Load)



Tek camlarda (at single glass);

MESNET AÇIKLIĞI SUPPORT CLEARNESS	AZAMI SEHİM MAXIMUM DEFLECTION
$L < 3m$	$f = L / 200$
$L > 3m$	$f = L / 300$

Çift camlarda (at double glass);

ARA KAYIT YOKSA ; (IF IT HAS NO TRANSOM)	
$L \geq 3m$	$f = \text{max. } 0,8\text{cm}$
$L < 2m$	$f = L / 200$
ARA KAYIT VARSA ; (IF IT HAS TRANSOM)	
a) Camların boyları L1 ; (If the glass height L1)	
$L1 \leq 2,4m$	$f1 \leq L1 / 300$
$L1 > 2,4m$	$f1 \leq 0,8\text{cm}$
b) Profillerin boyları L ; (If the profile length L)	
$L \leq 3m$	$f1 \leq L / 200$
$L > 2m$	$f1 \leq L / 300$

KISALTMALARIN ANLAMLARI

EXPLANATIONS OF ABBREVIATIONS

W: Rüzgar yükü (Wind load)

c: Rüzgar şekil katsayısı (Wind shape c.)

q: Emme hız basıncı (Speed pressure)

V: Rüzgar hızı (Wind speed)

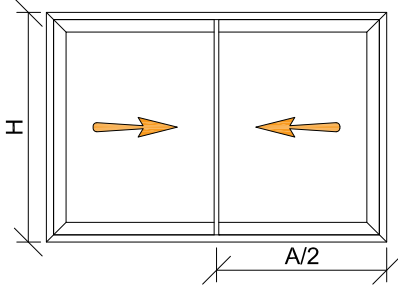
L: Düşey açıklık (Vertical clearance)

E: Elastisite modülü (Elasticity modulus)

f: Maksimum sehım (Max. deflection)

MAESTRO 89 Insulated Sliding

RÜZGAR YÜKÜNE BAĞLI KULLANIM LİMİTLERİ DİYAGRAMLARI USAGE LIMITS DIAGRAMS ACCORDING TO THE WIND LOAD



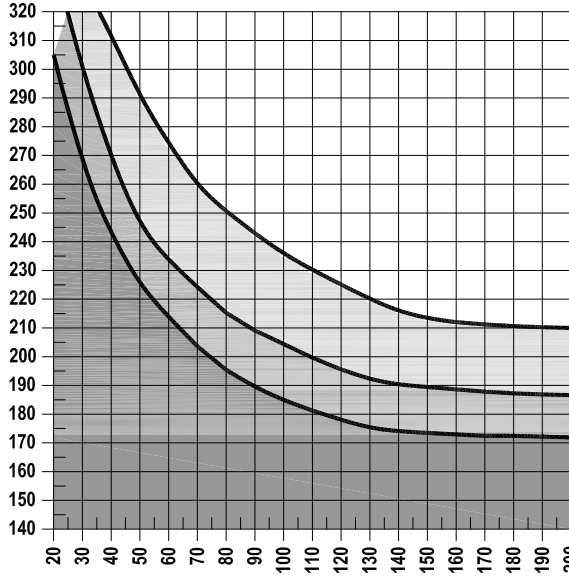
Diyagramlar Hakkında Bilgi (Information About The Diagrams) :

Tablolarda verilen eğriler; sağ tarafta belirtilen kenet profillerinin toplam atalet değerine ve 60, 96, 132 kg/m² olmak üzere 3 farklı rüzgar yüküne bağlı olarak ayrı ayrı çizilmiştir. Eğrilerin altında kalan taralı bölgeler o rüzgar yüküne göre "uygulanabilir" ebatları ifade etmektedir.

(The curves in the table; drew according to the inertia value of the clamp profiles and the wind loads of 60, 96, 132 kg/m². The hatched area below the curves according to the selected wind load mean "applicable" dimensions.)

Sehim Kriteri (Deflection Criteria) : $L / 300$

L (cm)



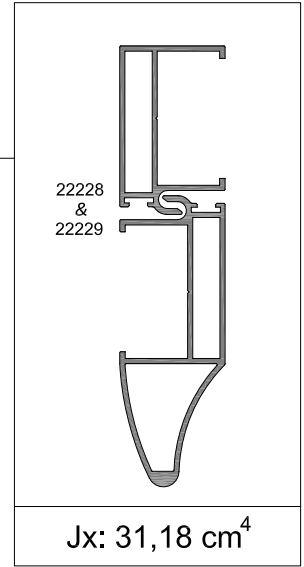
Max. Sehim = $L / 300$
(Max. Deflection)

Rüzgar Hızı & Yüğü
(Wind Speed & Load)
28 m/s & 60 kg/m²

36 m/s & 96 kg/m²

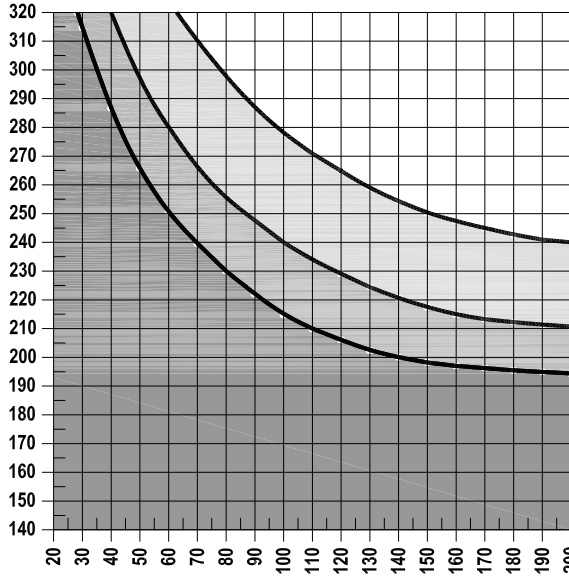
42 m/s & 132 kg/m²

A/2 (cm)



Jx: 31,18 cm⁴

L (cm)



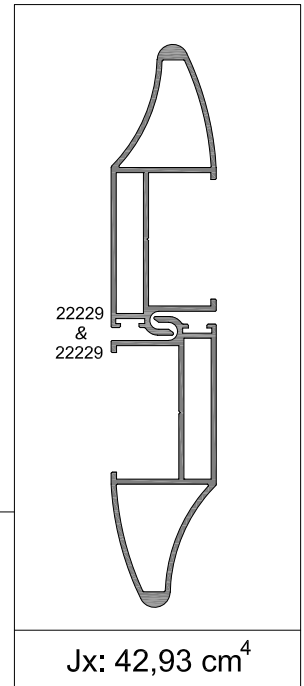
Max. Sehim = $L / 300$
(Max. Deflection)

Rüzgar Hızı & Yüğü
(Wind Speed & Load)
28 m/s & 60 kg/m²

36 m/s & 96 kg/m²

42 m/s & 132 kg/m²

A/2 (cm)



Jx: 42,93 cm⁴

FERMO SA

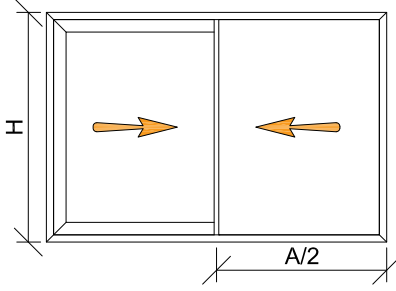
SYSTEM

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MAESTRO 89 Insulated Sliding

RÜZGAR YÜKÜNE BAĞLI KULLANIM LİMİTLERİ DİYAGRAMLARI USAGE LIMITS DIAGRAMS ACCORDING TO THE WIND LOAD



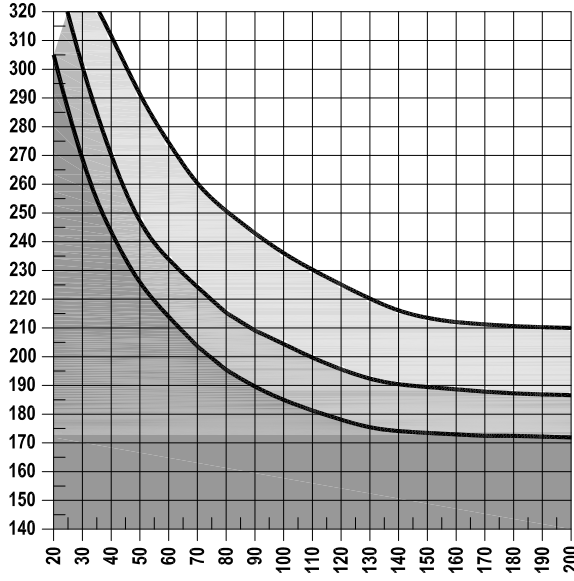
Diyagramlar Hakkında Bilgi (Information About The Diagrams) :

Tablolarda verilen eğriler; sağ tarafta belirtilen kenet profillerinin toplam atalet değerine ve 60, 96, 132 kg/m² olmak üzere 3 farklı rüzgar yüküne bağlı olarak ayrı ayrı çizilmiştir. Eğrilerin altında kalan taralı bölgeler o rüzgar yüküne göre "uygulanabilir" ebatları ifade etmektedir.

(The curves in the table; drew according to the inertia value of the clamp profiles and the wind loads of 60, 96, 132 kg/m². The hatched area below the curves according to the selected wind load mean "applicable" dimensions.)

Sehim Kriteri (Deflection Criteria) : $L / 300$

L (cm)



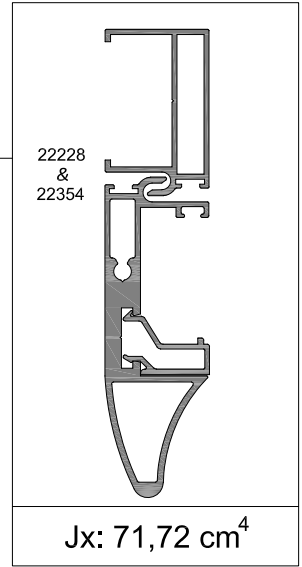
Max. Sehim = $L / 300$
(Max. Deflection)



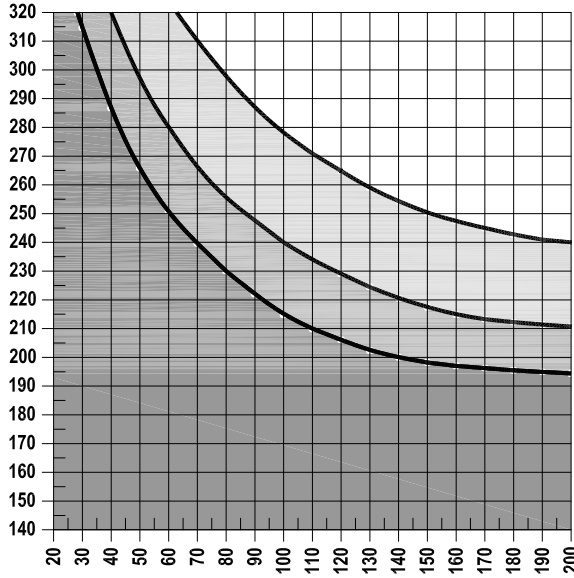
Rüzgar Hızı & Yüğü
(Wind Speed & Load)
28 m/s & 60 kg/m²

36 m/s & 96 kg/m²

42 m/s & 132 kg/m²



L (cm)



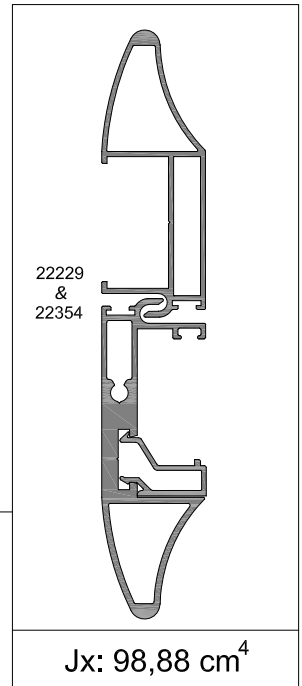
Max. Sehim = $L / 300$
(Max. Deflection)



Rüzgar Hızı & Yüğü
(Wind Speed & Load)
28 m/s & 60 kg/m²

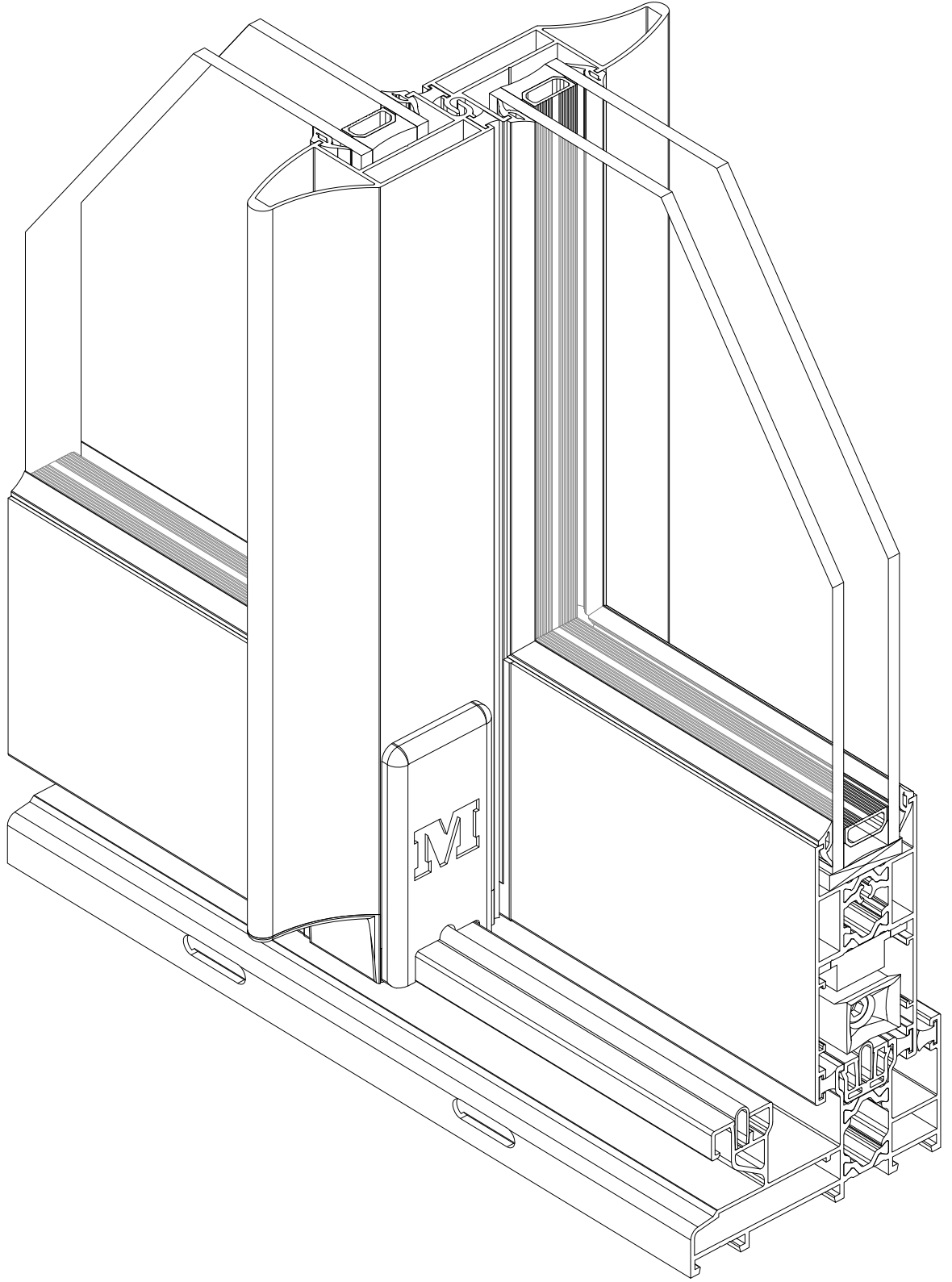
36 m/s & 96 kg/m²

42 m/s & 132 kg/m²



MAESTRO 89 Insulated Sliding

SİSTEM KESİT DETAYLARI SYSTEM CROSS SECTION DETAILS

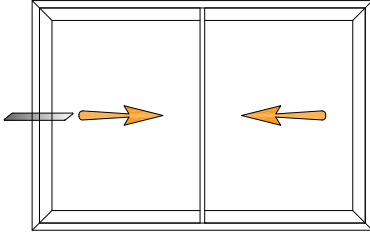


FERMO
SYSTEM

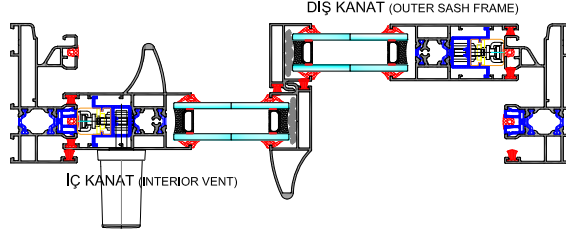
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MAESTRO 89 Insulated Sliding

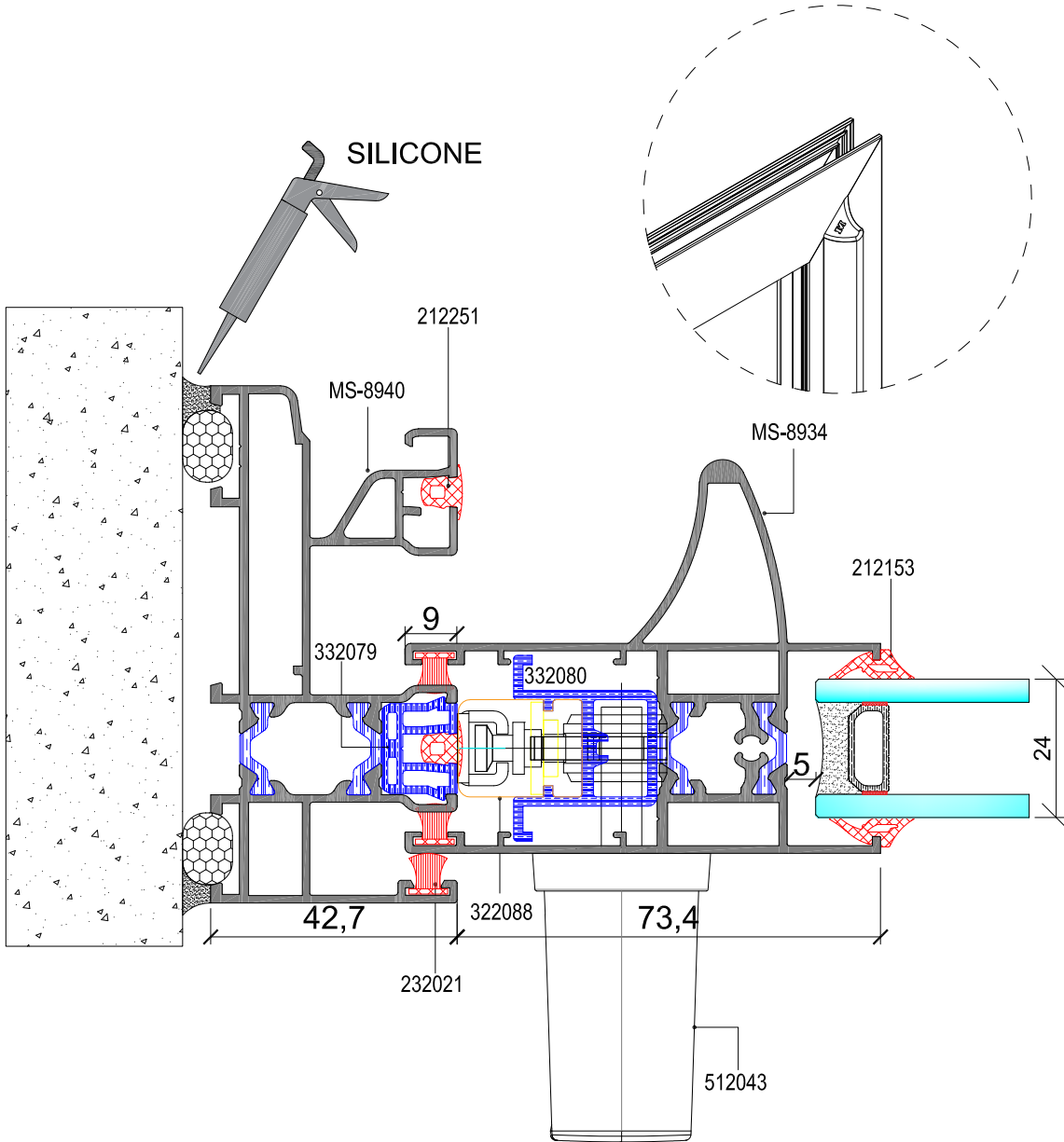


ÇİFT KANATLI SÜRME DETAYI DOUBLE SASH SLIDING DETAIL



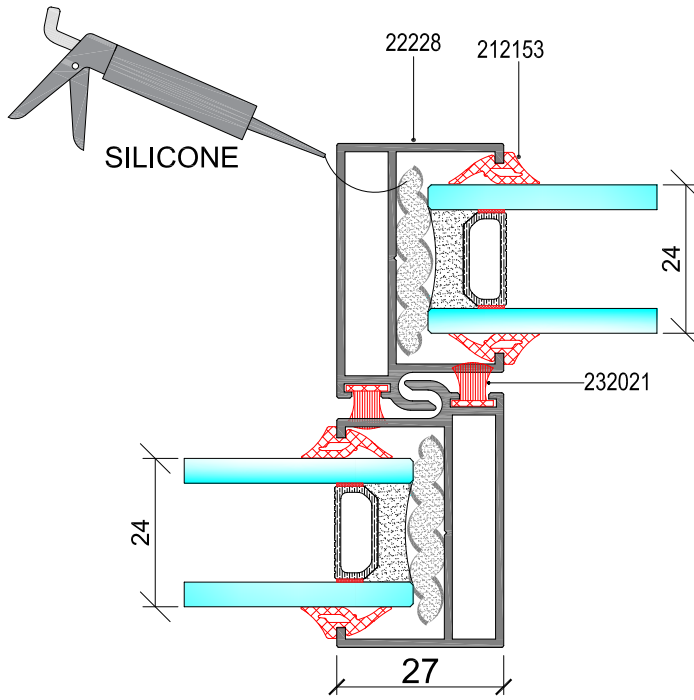
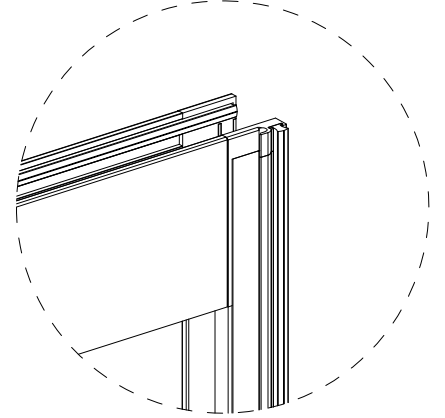
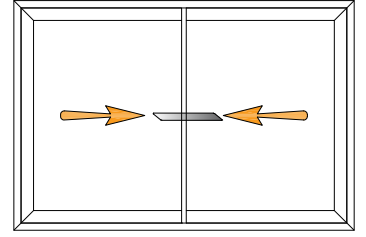
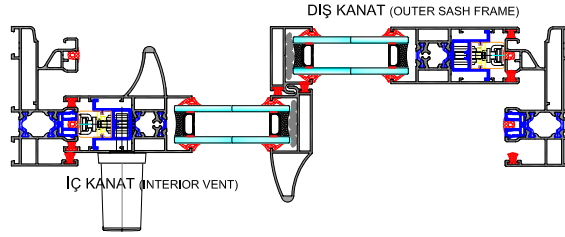
DIŞ KANAT (OUTER SASH FRAME)

İÇ KANAT (INTERIOR VENT)



MAESTRO 89 Insulated Sliding

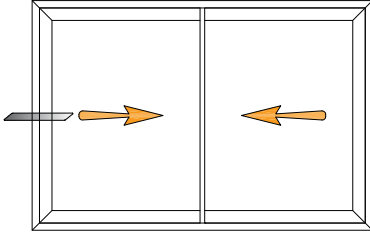
ÇİFT KANATLI SÜRME DETAYI DOUBLE SASH SLIDING DETAIL



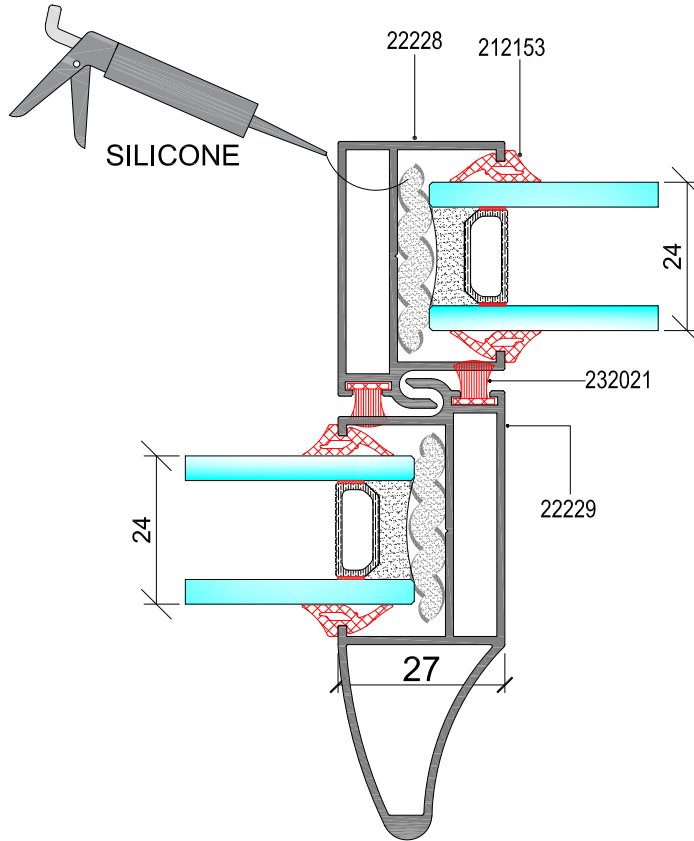
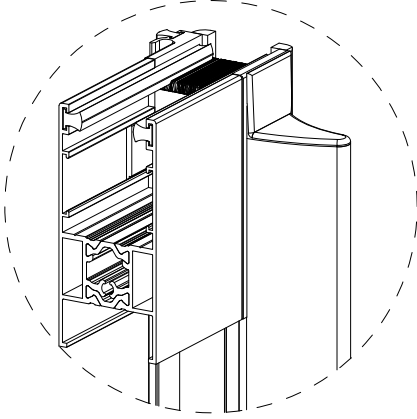
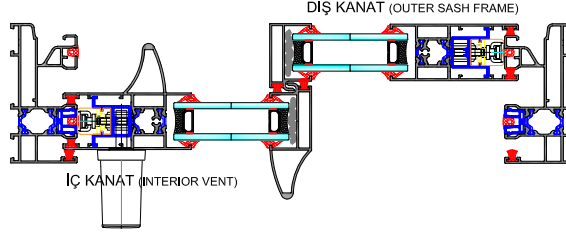
FERMO SA
SYSTEM

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MAESTRO 89 Insulated Sliding

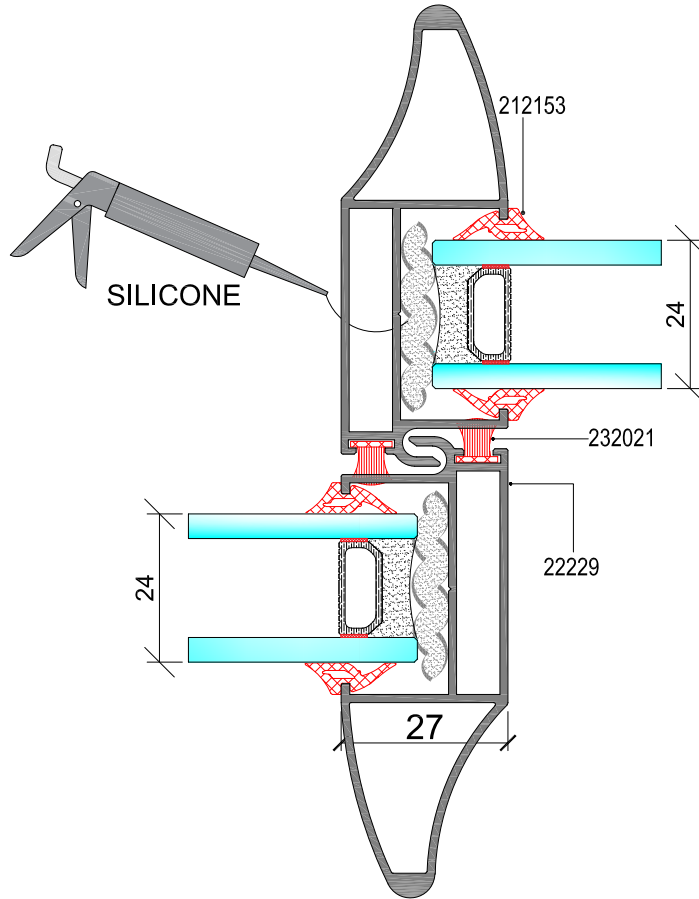
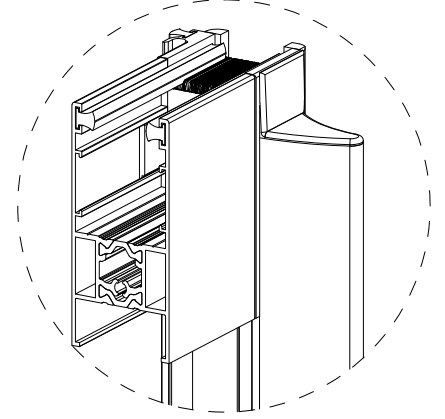
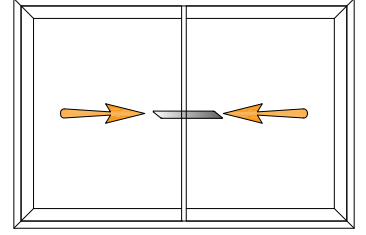
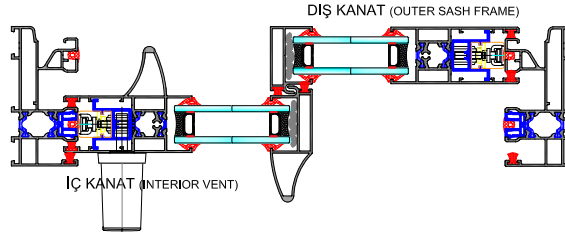


ÇİFT KANATLI SÜRME DETAYI DOUBLE SASH SLIDING DETAIL



MAESTRO 89 Insulated Sliding

ÇİFT KANATLI SÜRME DETAYI DOUBLE SASH SLIDING DETAIL

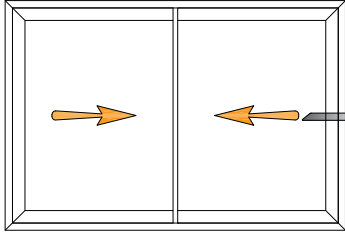


FERMO SA

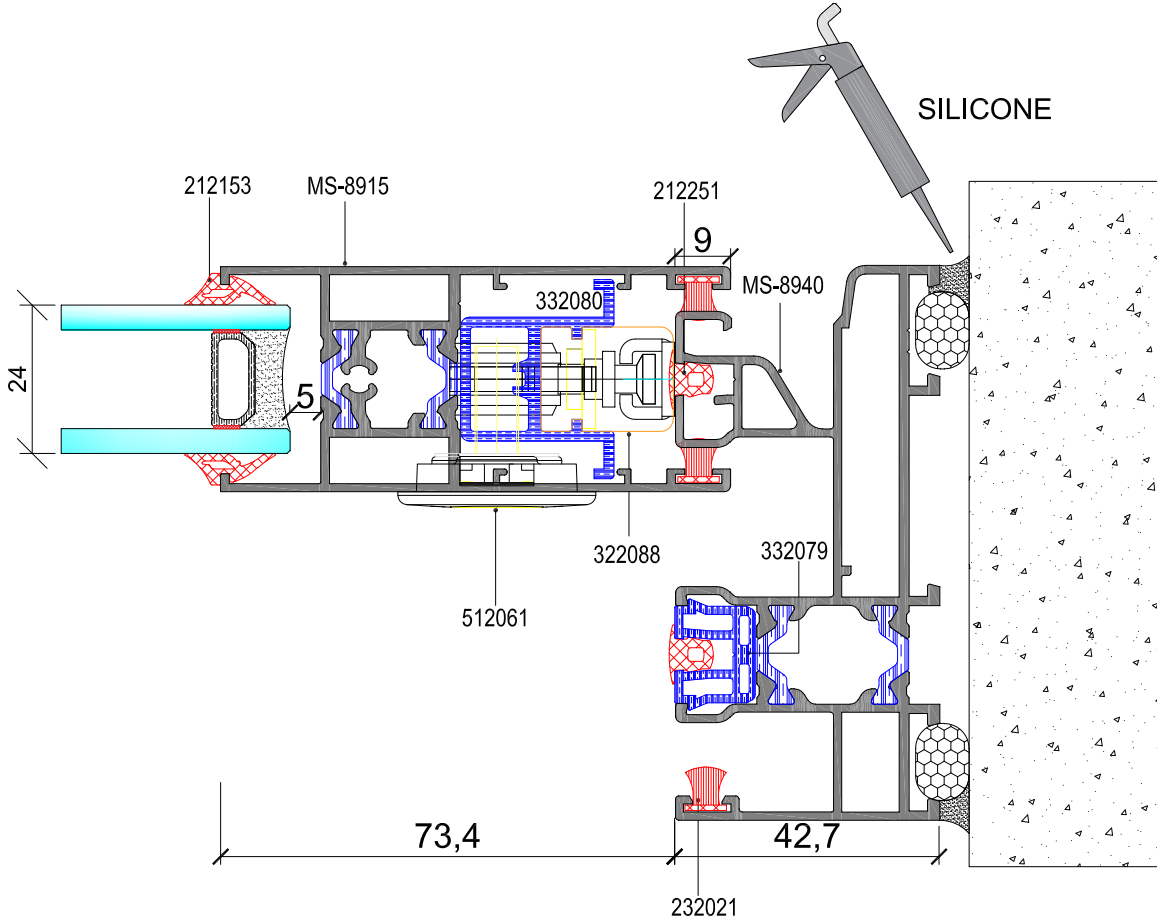
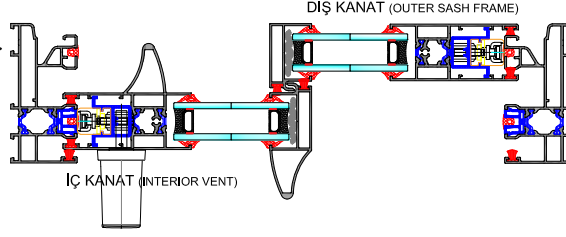
SYSTEM

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MAESTRO 89 Insulated Sliding

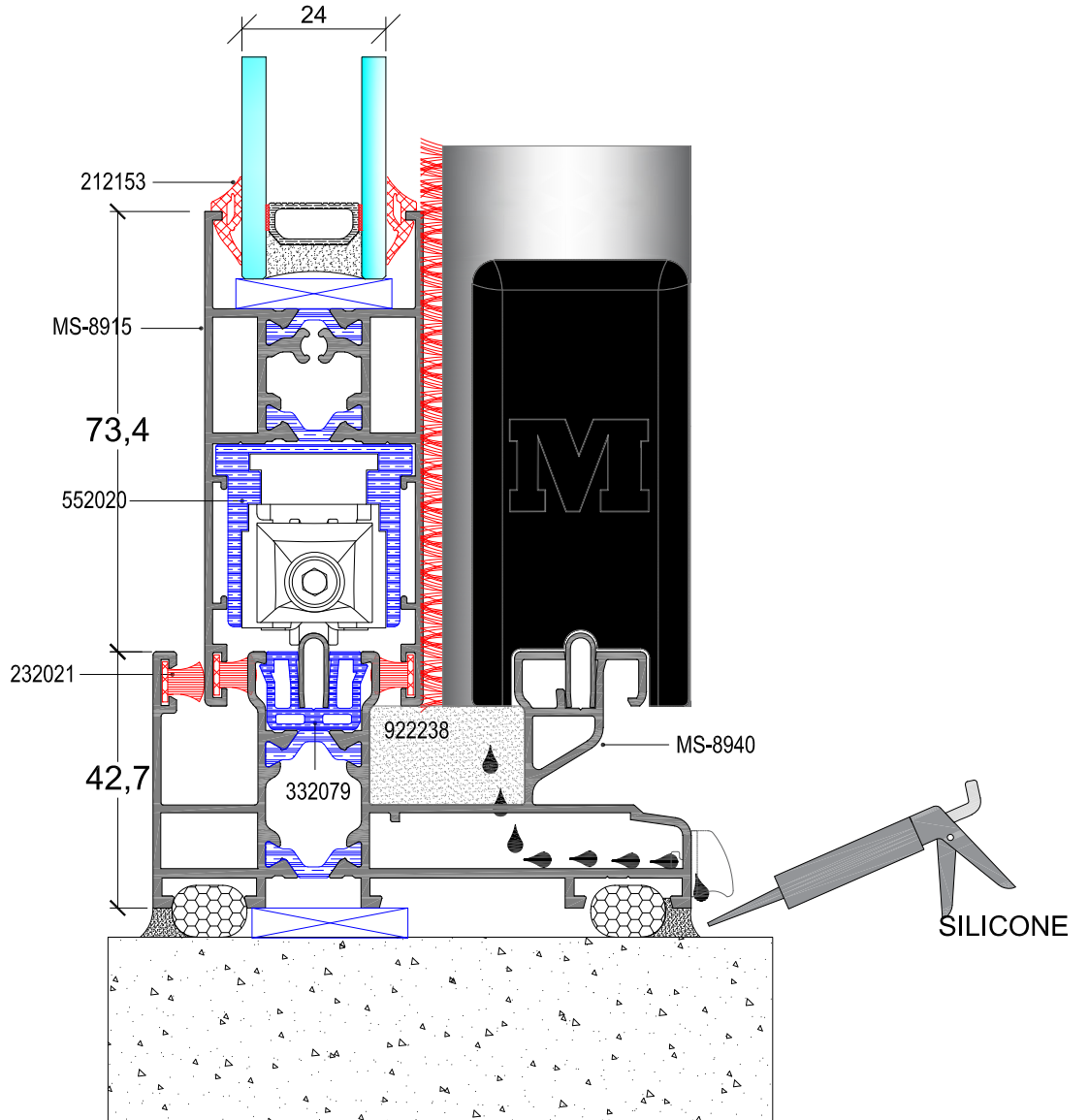
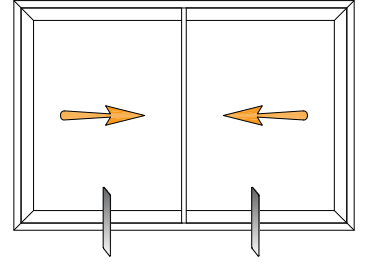
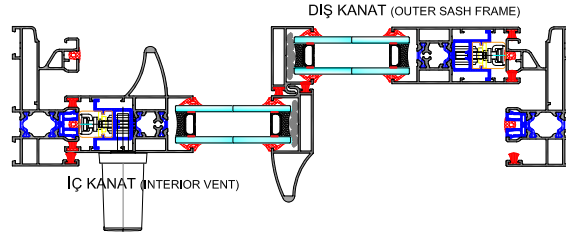


ÇİFT KANATLI SÜRME DETAYI
DOUBLE SASH SLIDING DETAIL



MAESTRO 89 Insulated Sliding

ÇİFT KANATLI SÜRME DETAYI DOUBLE SASH SLIDING DETAIL



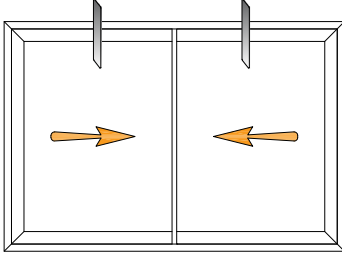
FERMO SA

SYSTEM

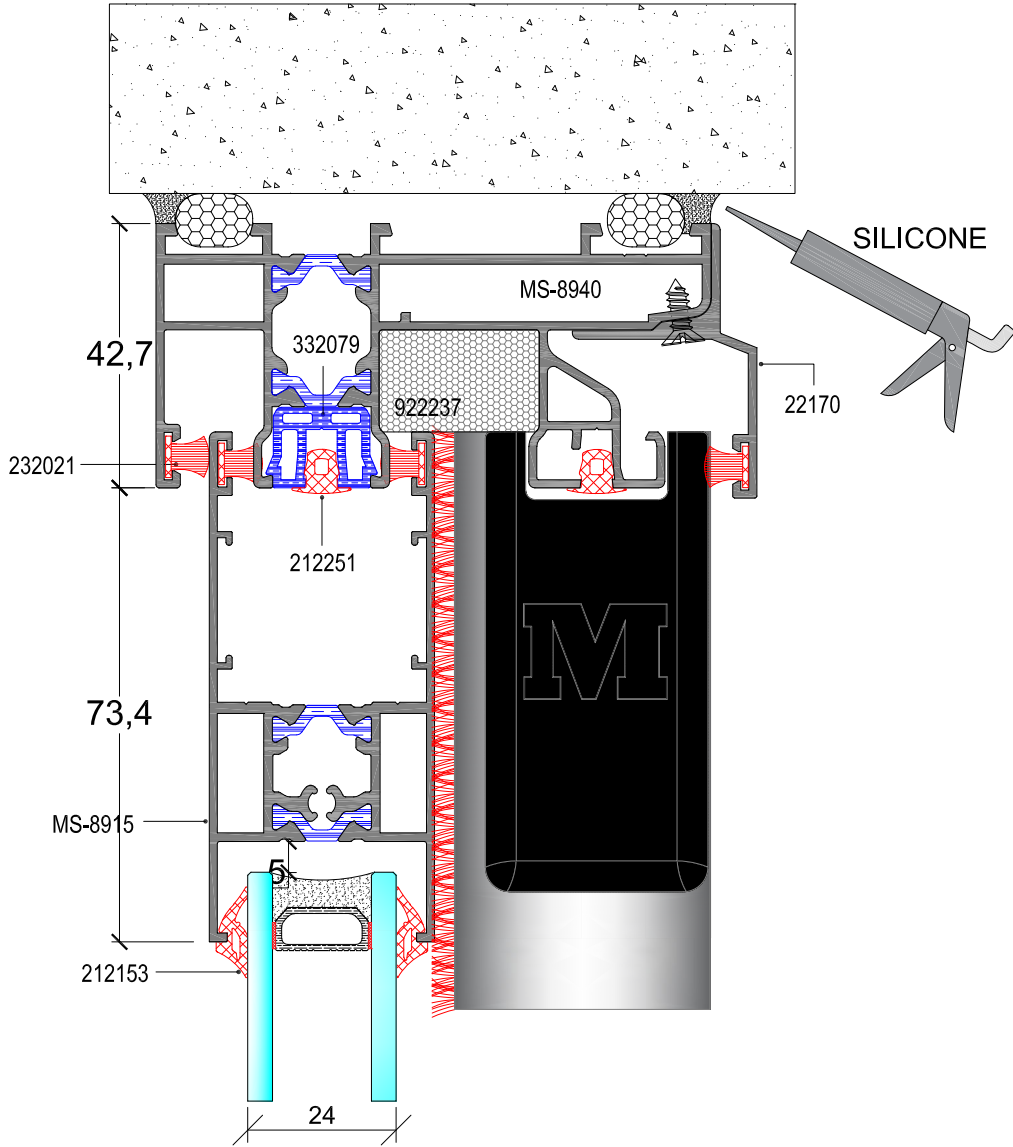
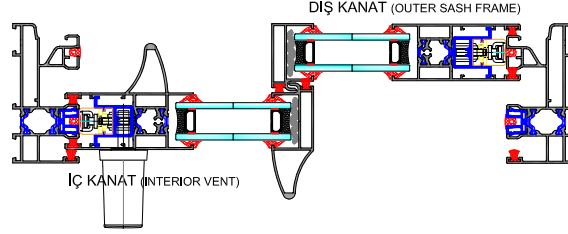
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MAESTRO 89 Insulated Sliding

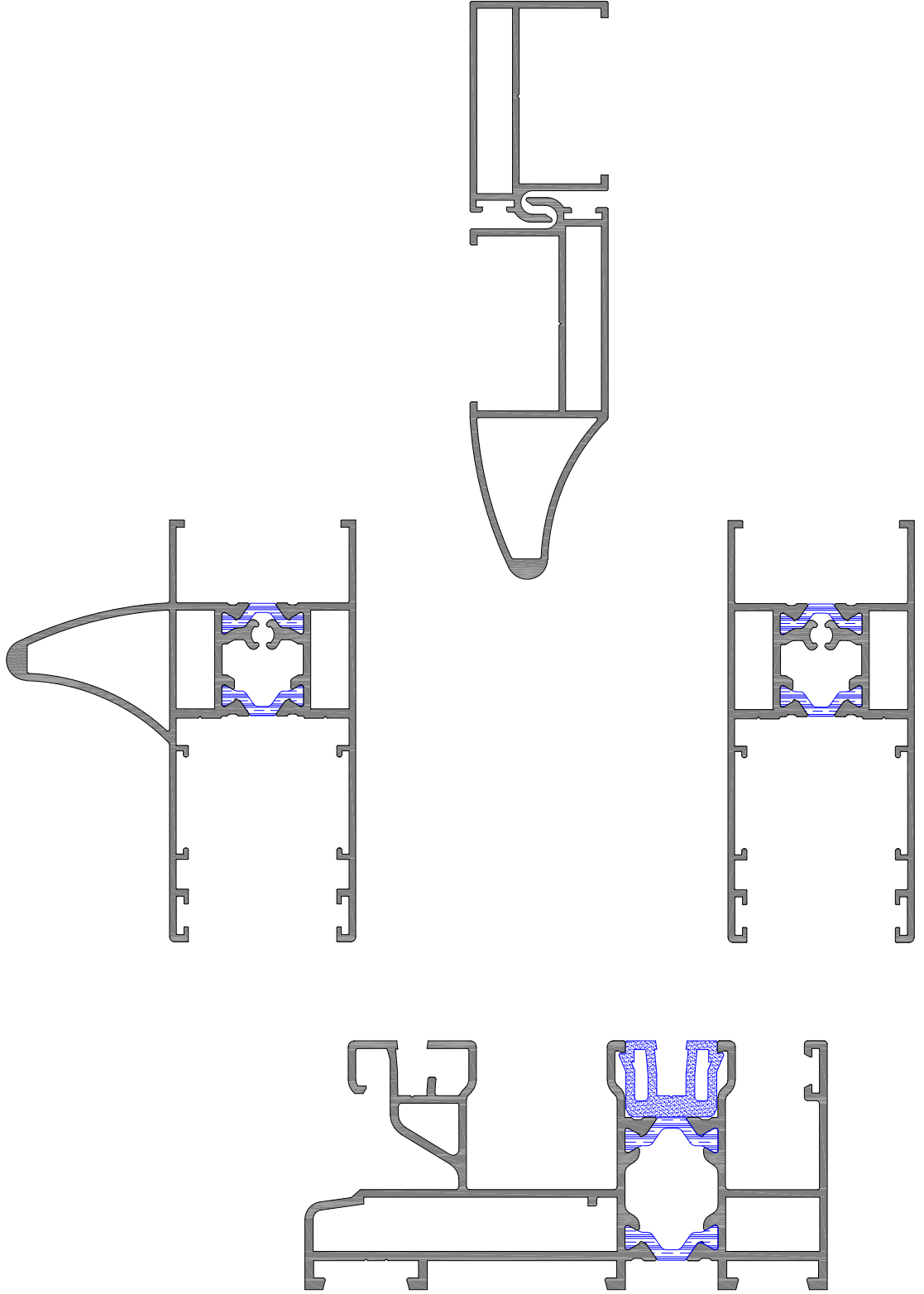


ÇİFT KANATLI SÜRME DETAYI
DOUBLE SASH SLIDING DETAIL

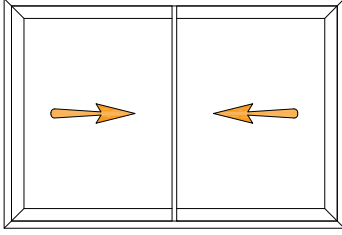


KESİM ÜRETİM ÖLÇÜLERİ

MANUFACTURING DIMENSIONS



MAESTRO 89 Insulated Sliding



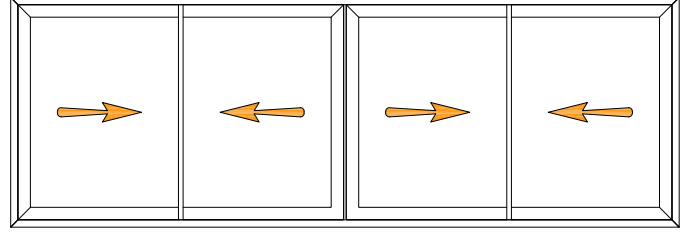
ÇİFT KANATLI SÜRME
DOUBLE SASH SLIDING

PROFİLLER / PROFILES				
ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ CUTTING SIZE	KESİM AÇISI CUTTING ANGLE
2	MS-8940	DÜŞEY KASA PR. / VERTICAL FRAME PR.	H	45°/45°
2	MS-8940	YATAY KASA PR. / HORIZONTAL FRAME PR.	L	45°/45°
2	MS-8915	DÜŞEY KANAT PR. / VERTICAL SASH PR.	H - 67,4	45°/45°
1	MS-8934	DÜŞEY KANAT PR. / VERTICAL SASH PR.(SEÇENEK)	H - 67,4	45°/45°
4	MS-8915	YATAY KANAT PR./ HORIZONTAL SASH PR.	L/2 - 49,6	45°/90°
1	22228	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
1	22229	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
1	22170	DAMLALIK PR./DRIP WHEATHER PR.	L	90°/90°

AKSESUARLAR / ACCESSORIES				
ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ CUTTING SIZE	KESİM AÇISI CUTTING ANGLE
4	111350	KÖŞE TAKOZU / CORNER CLEAT	-	
4	111345	KÖŞE TAKOZU / CORNER CLEAT	-	
4	111303	KÖŞE TAKOZU / CORNER CLEAT	-	
4	162001	KÖŞE ÇAVUŞU / CORNER ALIGNMENT	-	
1	372002	TAPA SETİ / PLUG KIT	-	
4	552020	RULMAN / PULLEY	-	
1	922237	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
1	922238	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
-	322079	PVC RAY PROFİLİ / PVC RAIL PROFILE	2L + 2H	45°/45°
-	212251	RAY KAPATMA FİTİLİ / GASKET	1L + 1H	
-	212153	KAMA FİTİLİ / GASKET FOR GLAZING	4L + 6H	
-	332036	ÇELİK RAY / STEEL RAIL	2L	
-	332080	PVC İSPANYOLET PR. / PVC ESPAGNOLETTE PR.	1H	90°/90°
2	322088	KANAT STOPER / STOPPER FOR SASH	-	
1	322094	TAKVİYELİ KANAT TAPA SETİ TAKIM.	-	

MAESTRO 89 Insulated Sliding

DÖRT KANATLI YALITIMLI SÜRME INSULATED QUADRUPLE SASH SLIDING



PROFİLLER / PROFILES

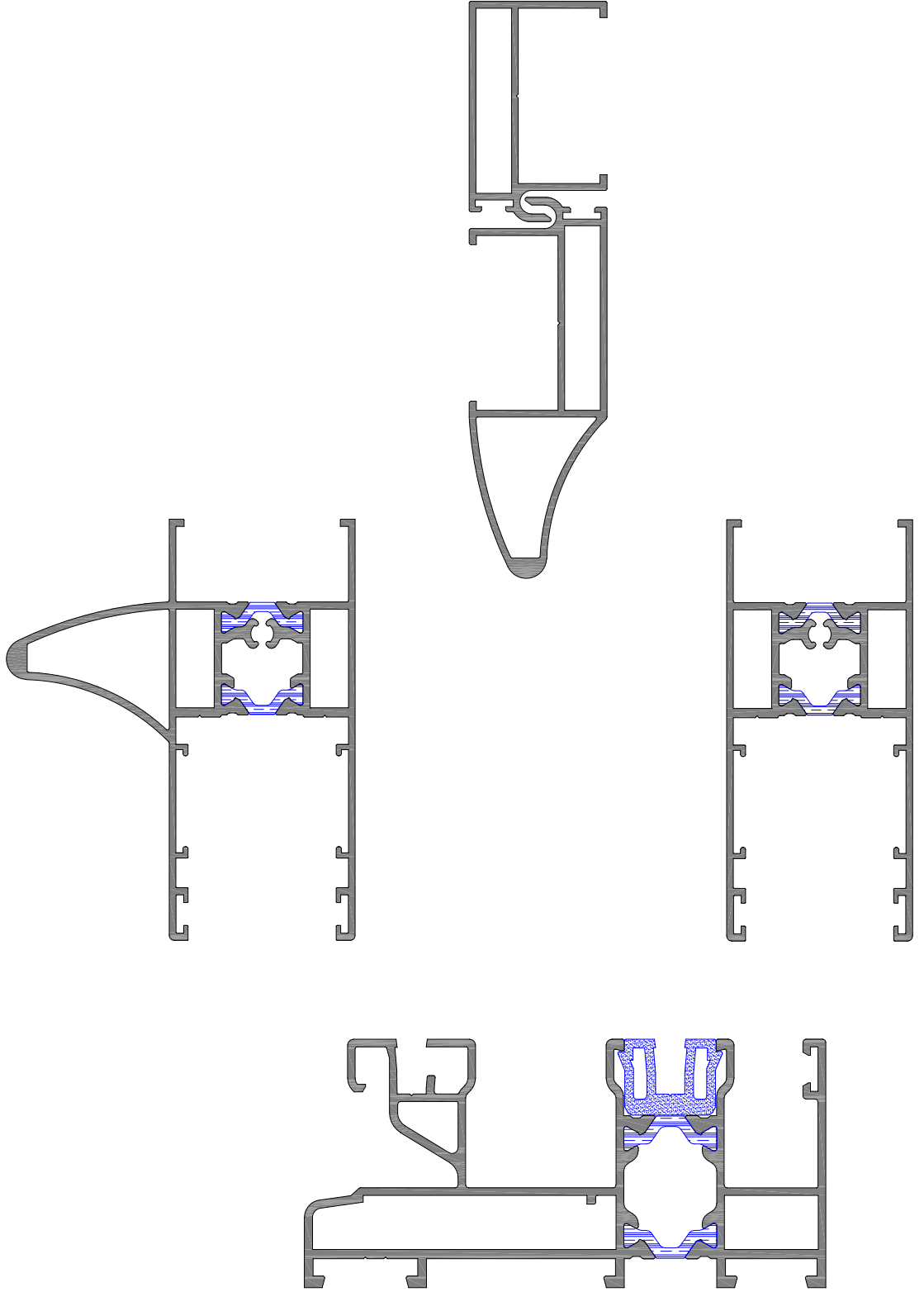
ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ CUTTING SIZE	KESİM AÇISI CUTTING ANGLE
2	MS-8940	DÜŞEY KASA PR. / VERTICAL FRAME PR.	H	45°/45°
2	MS-8940	YATAY KASA PR. / HORIZONTAL FRAME PR.	L	45°/45°
4	MS-8915	DÜŞEY KANAT PR. / VERTICAL SASH PR.	H - 67,4	45°/45°
2	MS-8934	DÜŞEY KANAT PR. / VERTICAL SASH PR.(SEÇENEK)	H - 67,4	45°/45°
8	MS-8915	YATAY KANAT PR./ HORIZONTAL SASH PR.	L/4 - 49,6	45°/90°
1	22228	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
1	22229	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
1	22170	DAMLALIK PR. / DRIP WHEATHER PR.	L	90°/90°
1	MS-8917	DÖRTLÜ ORTA ADAPTÖR / ADAPTER	H - 67,4	90°/90°

AKSESUARLAR / ACCESSORIES

ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ CUTTING SIZE	KESİM AÇISI CUTTING ANGLE
4	111350	KÖŞE TAKOZU / CORNER CLEAT	-	
4	111345	KÖŞE TAKOZU / CORNER CLEAT	-	
4	111303	KÖŞE TAKOZU / CORNER CLEAT	-	
4	162001	KÖŞE ÇAVUŞU / CORNER ALIGNMENT	-	
1	372004	TAPA SETİ / PLUG KIT	-	
8	552020	RULMAN / PULLEY	-	
3	922237	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
3	922238	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
-	322079	PVC RAY PROFİLİ / PVC RAIL PROFILE	2L + 2H	45°/45°
-	212251	RAY KAPATMA FİTİLİ / GASKET	1L + 1H	
-	212153	KAMA FİTİLİ / GASKET FOR GLAZING	4L + 6H	
-	332036	ÇELİK RAY / STEEL RAIL	2L	
-	332080	PVC İSPANYOLET PR. / PVC ESPAGNOLETTE PR.	1H	90°/90°
6	322088	KANAT STOPER / STOPPER FOR SASH	-	
2	322094	TAKVİYELİ KANAT TAPA SETİ TAKIM.	-	

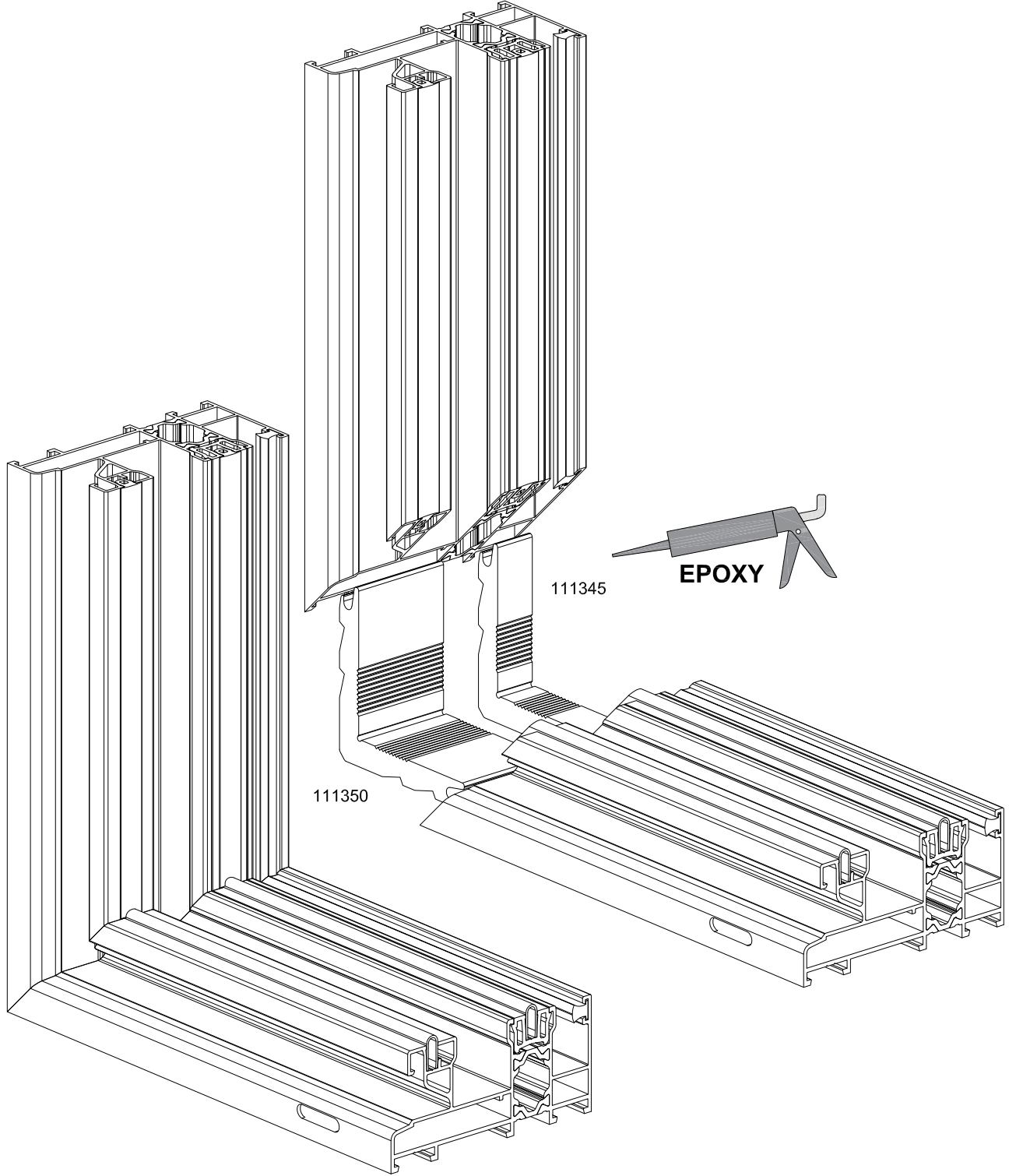
İMİLAT ÜRETİM DETAYLARI

PRODUCTION APPLICATION DETAILS



MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS



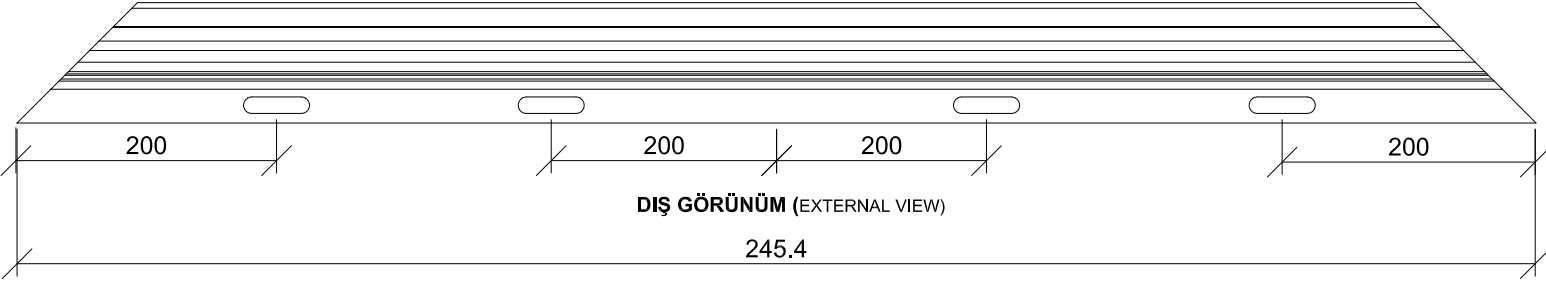
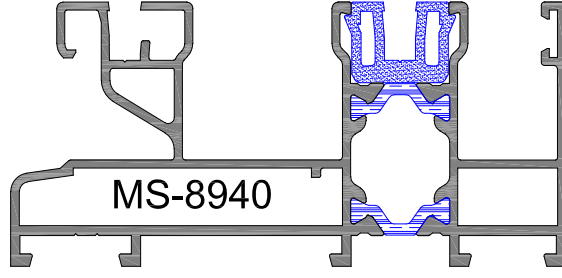
FERMO SA
SYSTEM

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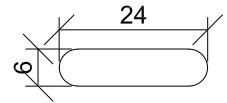
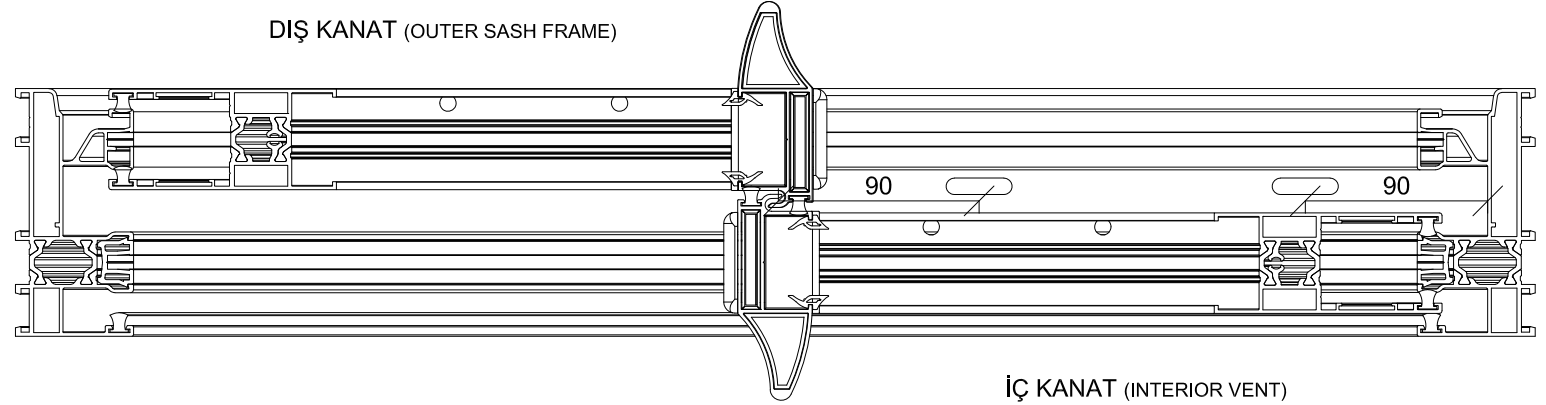
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MAESTRO 89 Insulated Sliding

KASA TAHLİYE DETAYI
WATER DRAINAGE CHANNEL DETAIL



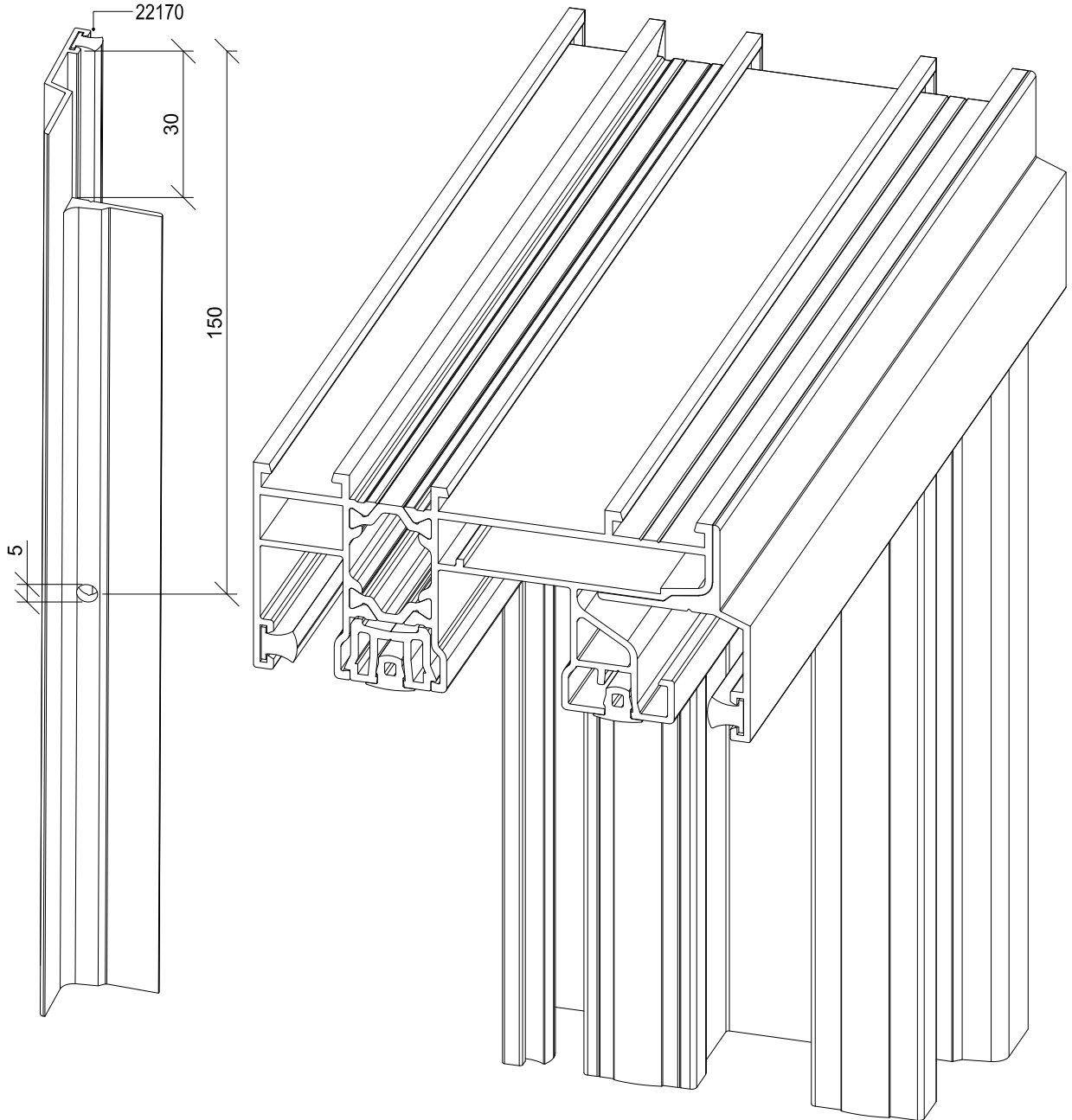
DIŞ KANAT (OUTER SASH FRAME)



TAHLİYE DELİĞİNİN ÖLÇÜLERİ
DRAINAGE HOLE DIMENSIONS

MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS



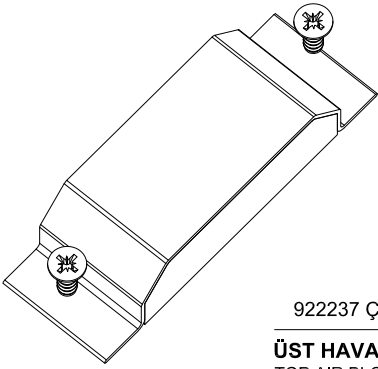
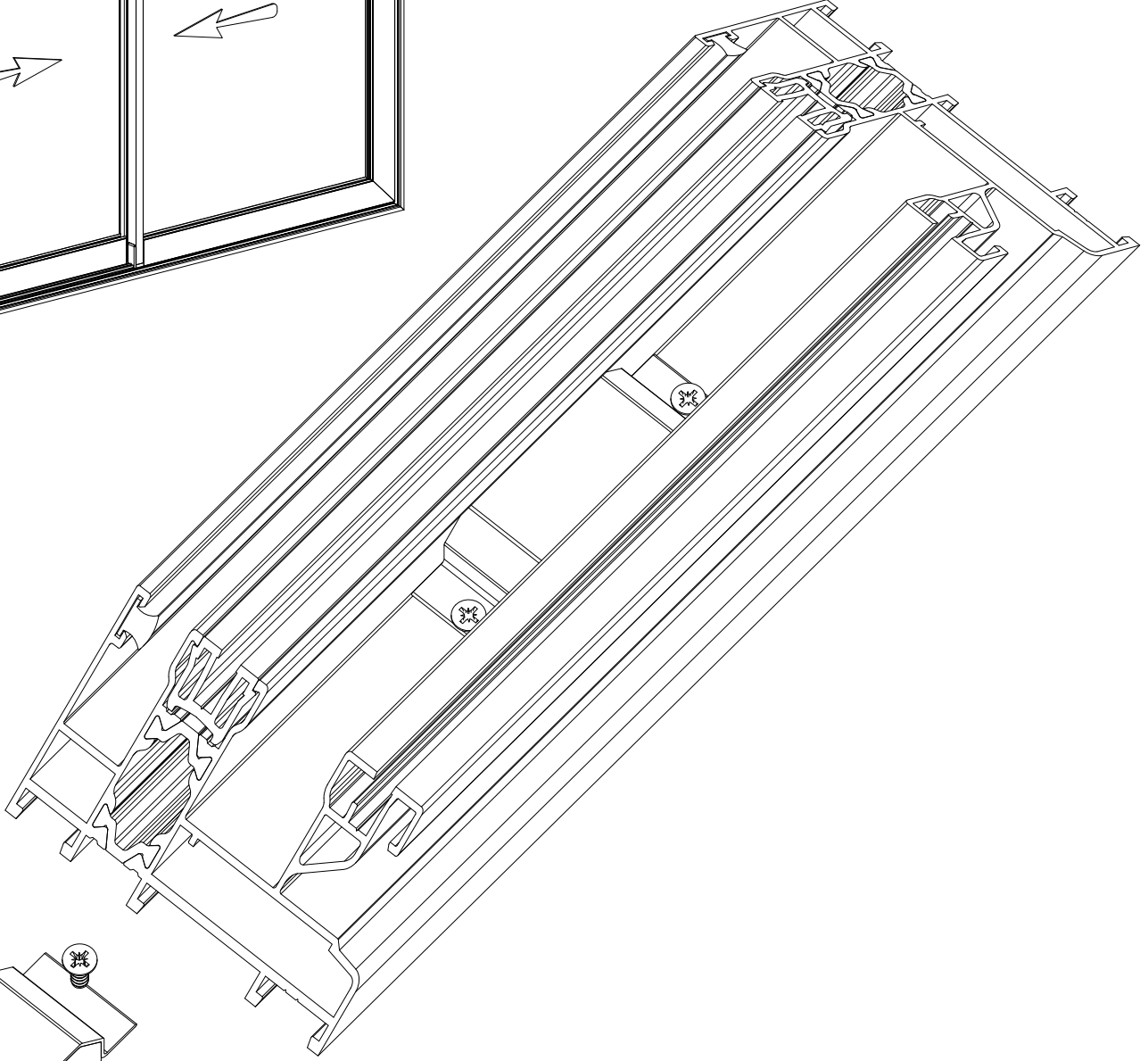
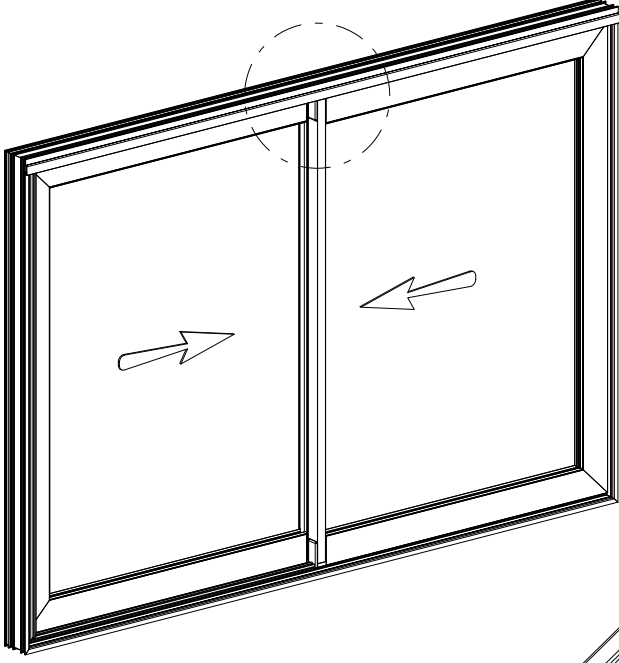
FERMO
SYSTEM

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MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS

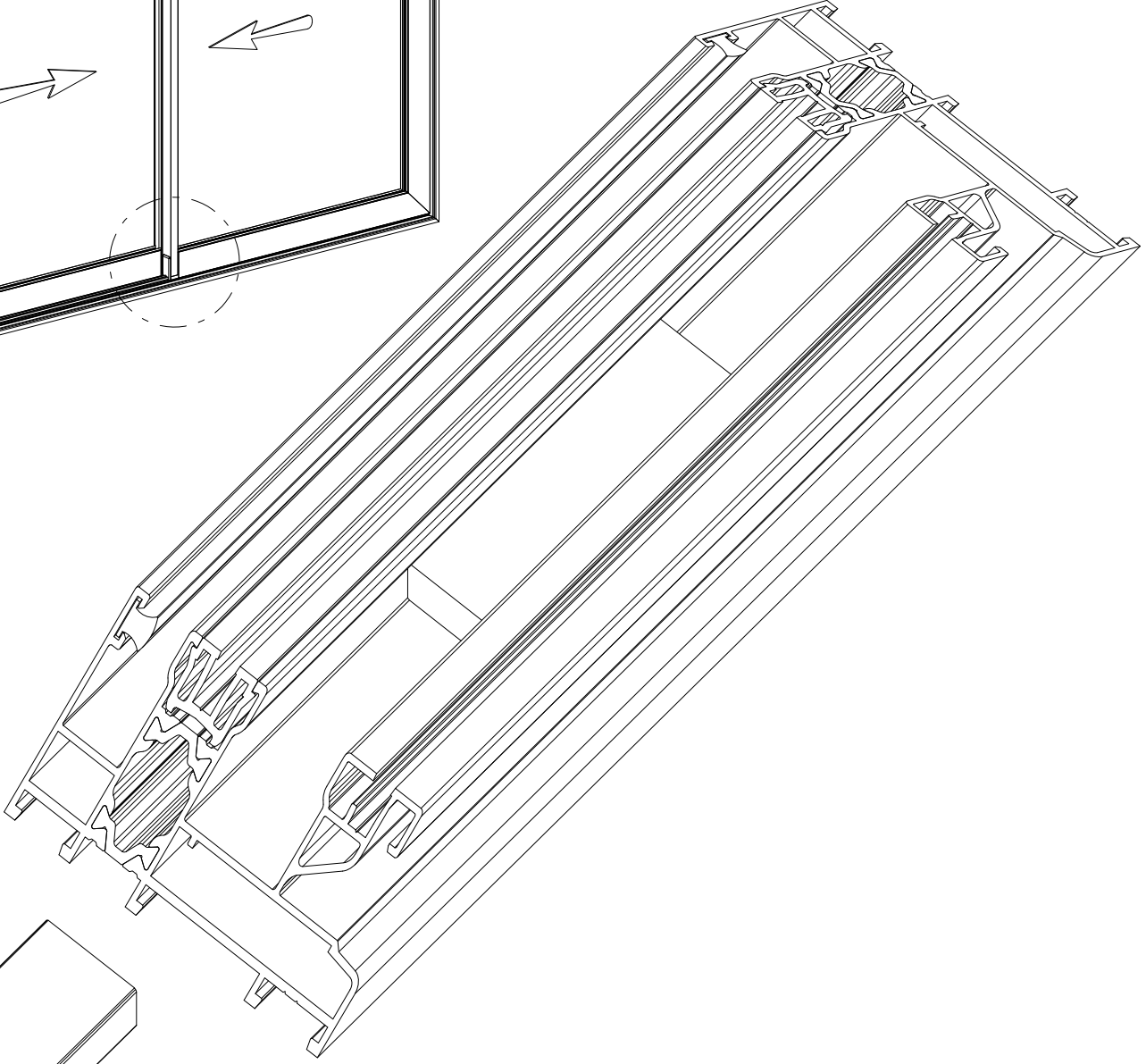
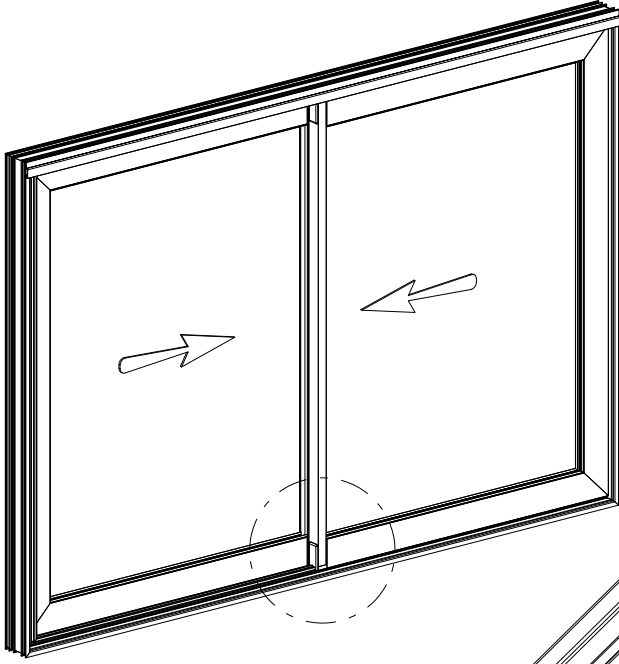


922237 ÇİFT RAYLI İÇİN

ÜST HAVA KESİCİ SÜNGER
TOP AIR BLOCKER FOAM

MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS



922238 ÇİFT RAYLI İÇİN

ALT SU VE HAVA KESİCİ SÜNGER
BOTTOM WATER AND AIR BLOCKER FOAM

FERMO
SYSTEM

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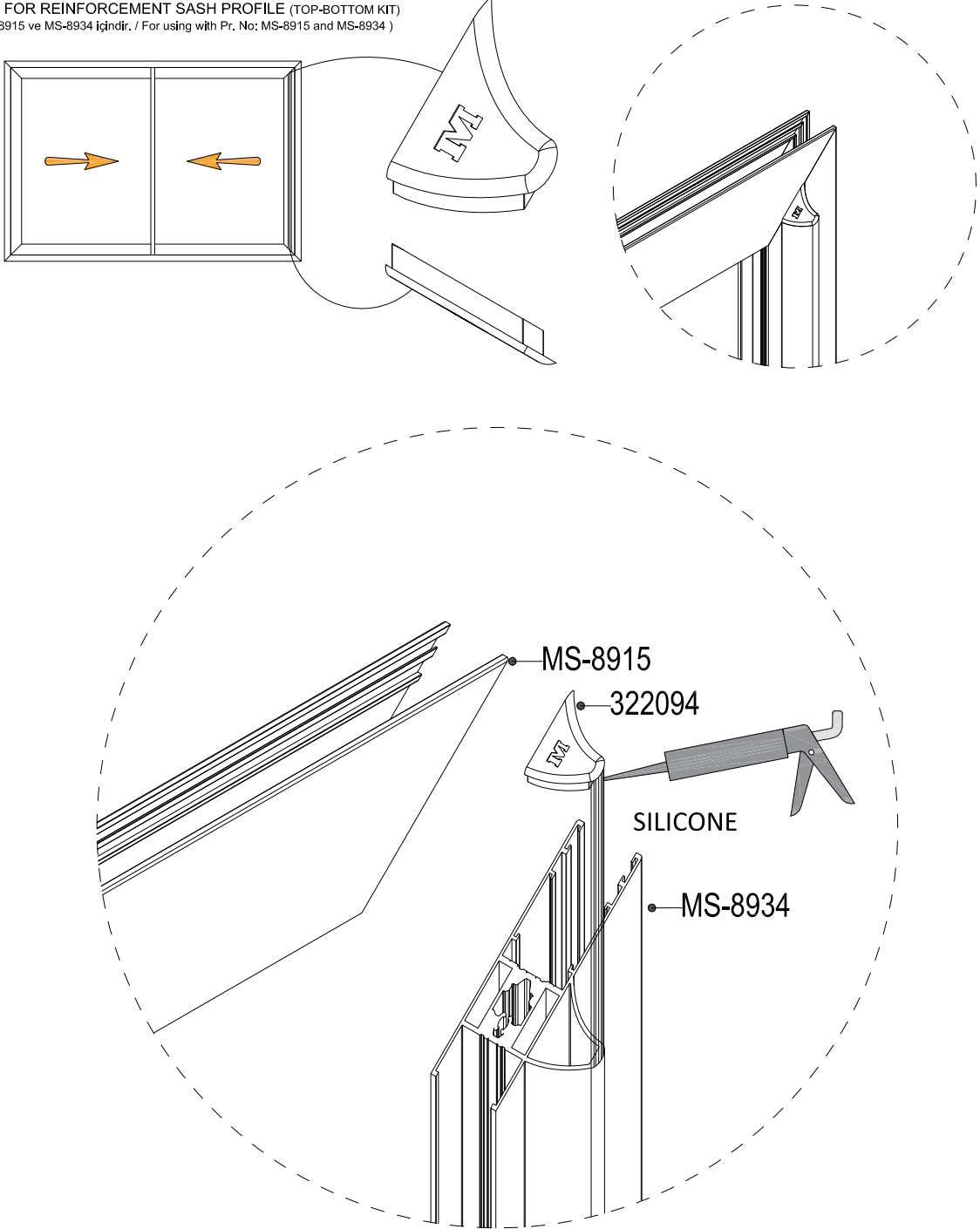
45

MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI MANUFACTURING APPLICATION DETAILS

322094

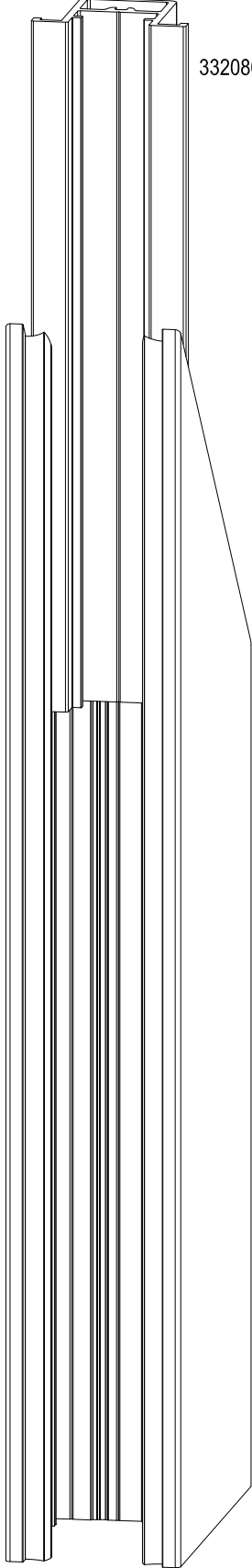
TAKVİYELİ KANAT PR. İÇİN KAPAK (ÜST-ALT TAKIM)
CAP FOR REINFORCEMENT SASH PROFILE (TOP-BOTTOM KIT)
(MS-8915 ve MS-8934 içindir. / For using with Pr. No: MS-8915 and MS-8934)



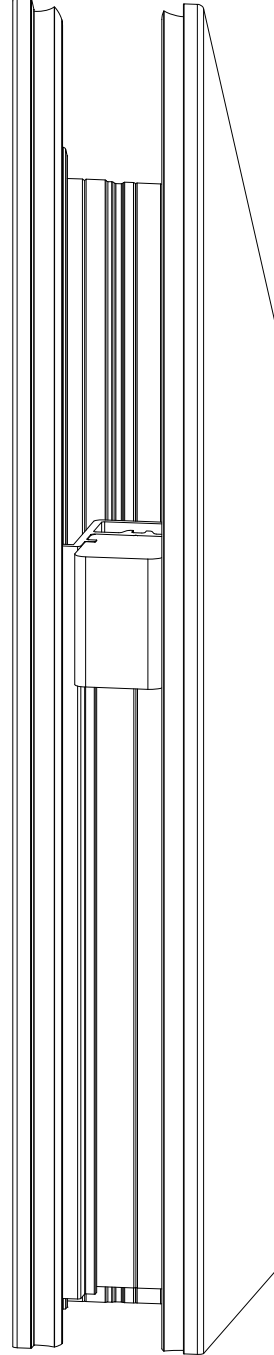
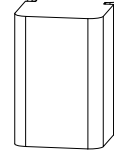
MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS

332080 PVC İSPANYOLET PROFİLİ



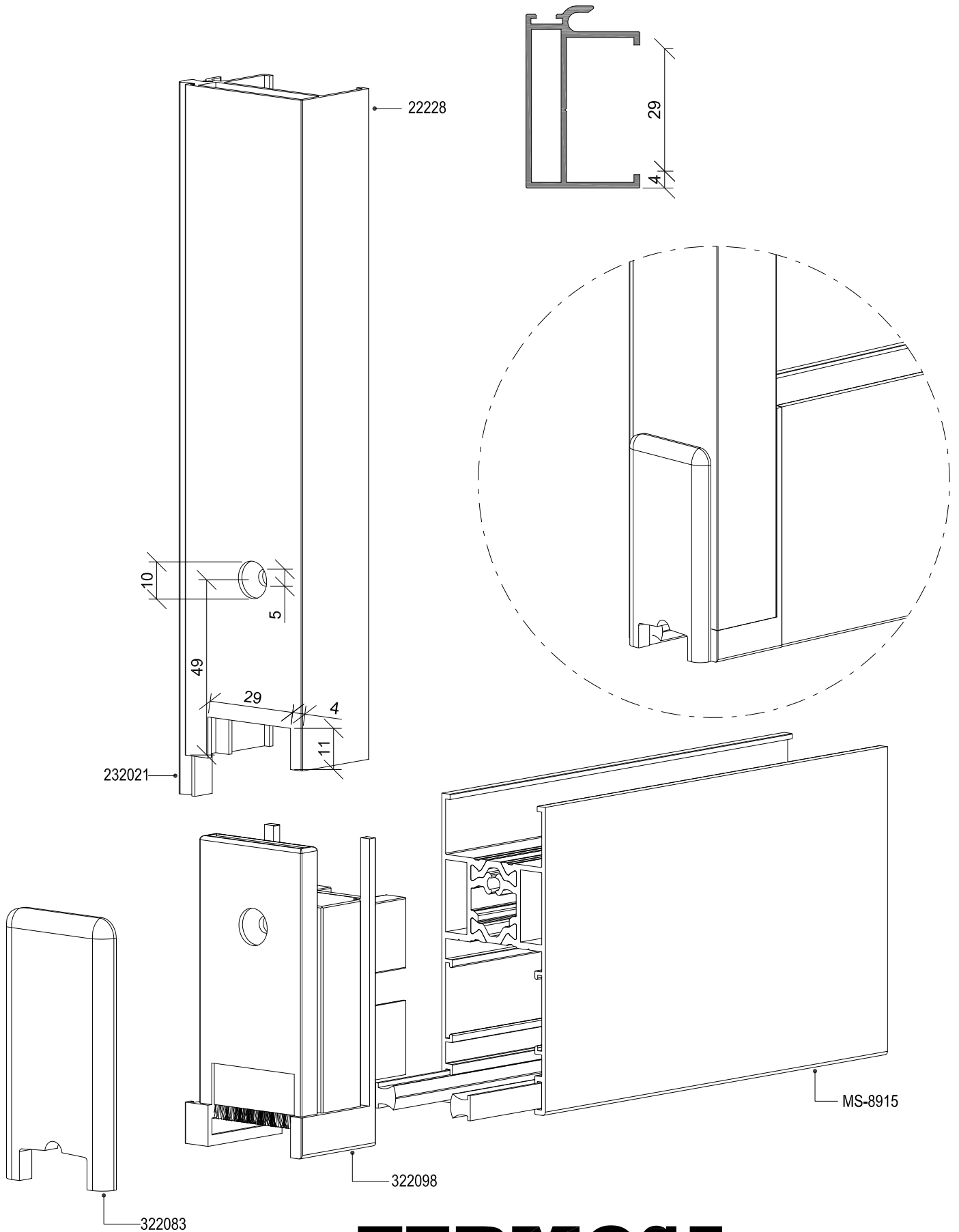
322088 STOPER



FERMO
SYSTEM

47

MAESTRO 89 Insulated Sliding



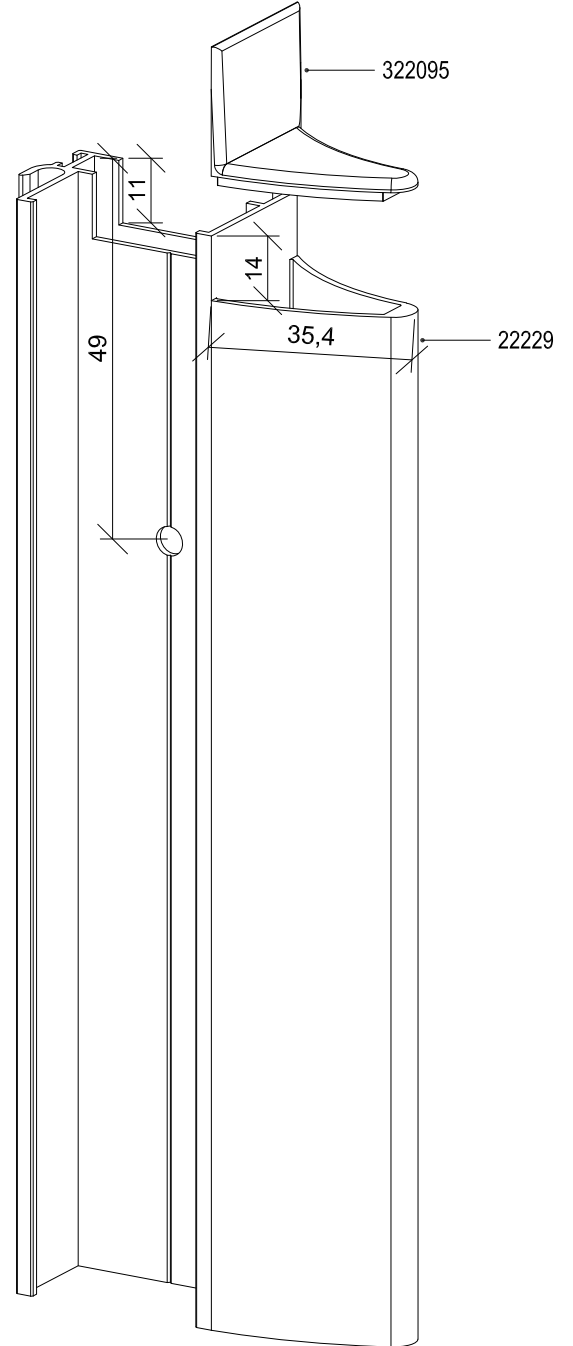
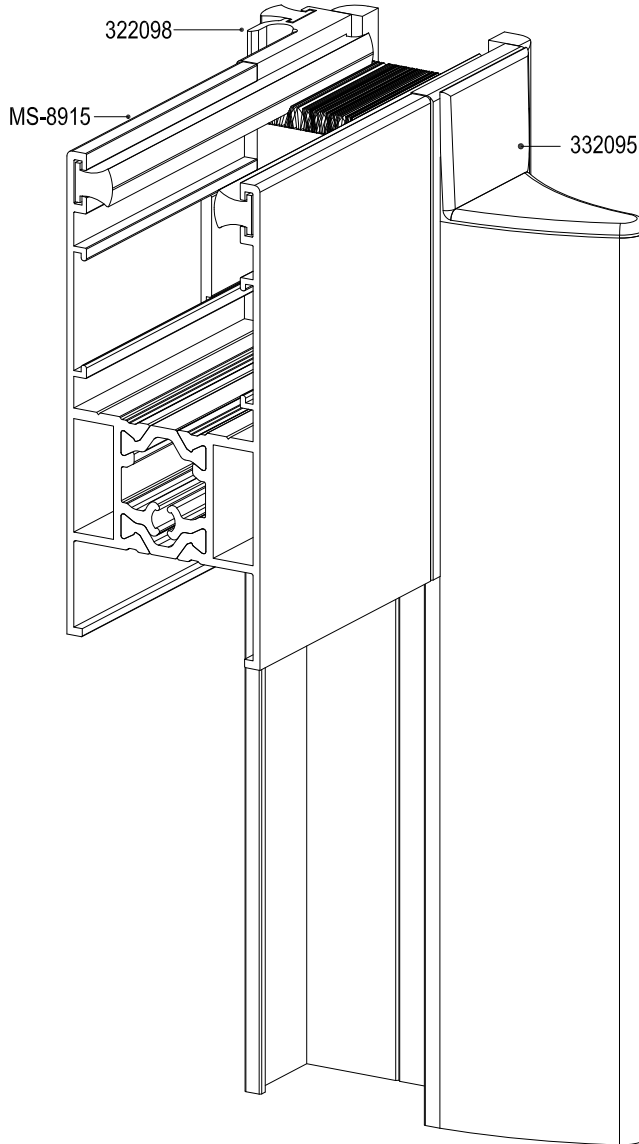
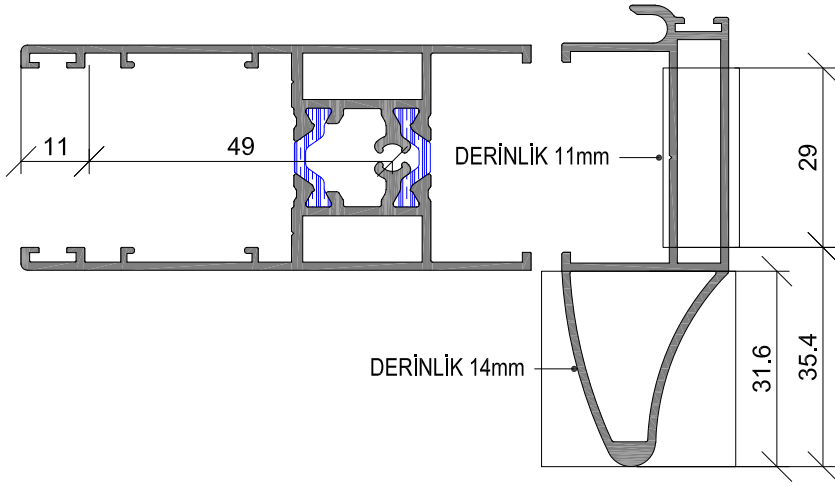
48

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SYSTEM

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MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS



FERMO SA

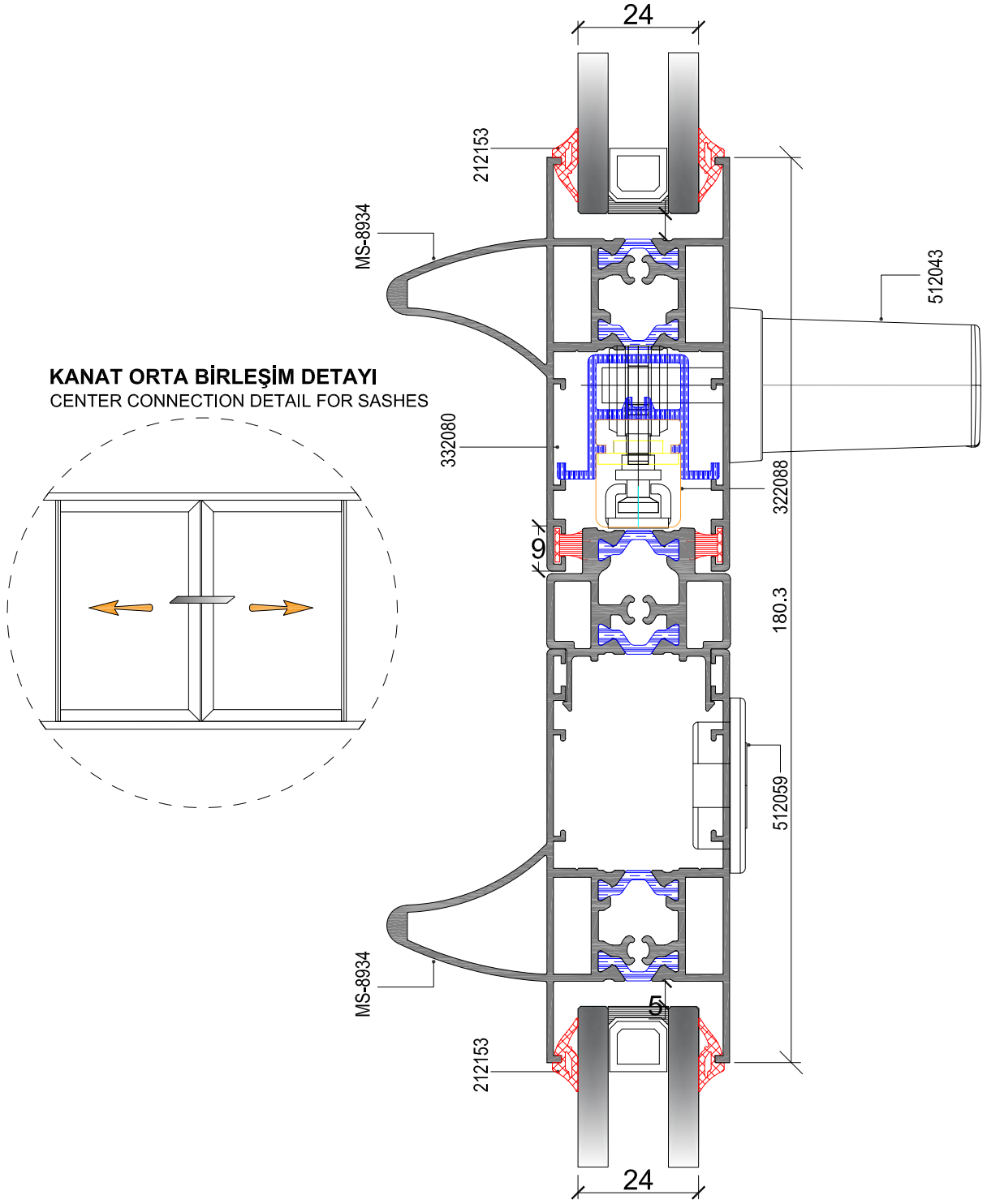
SYSTEM

49

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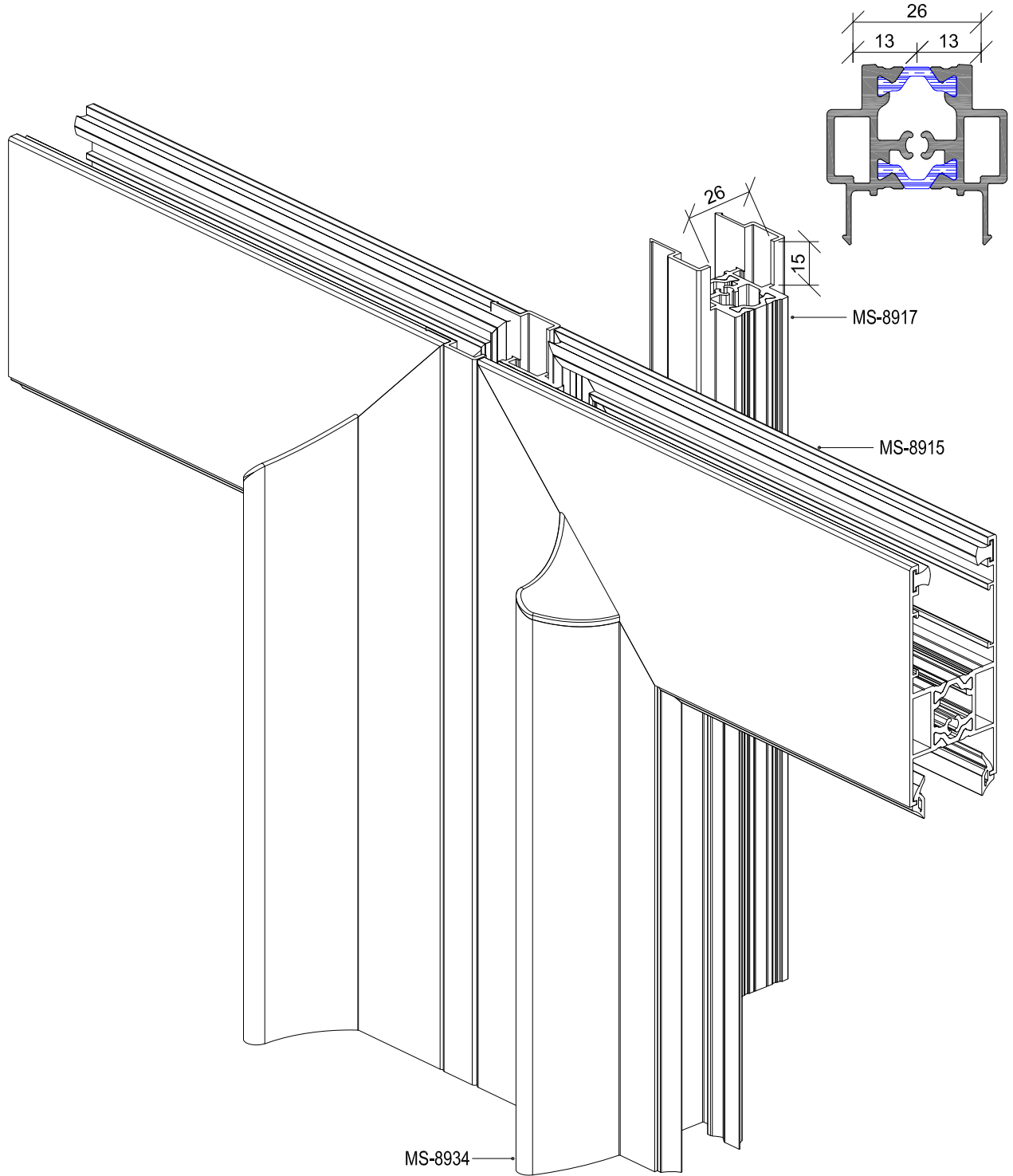
MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS



MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS



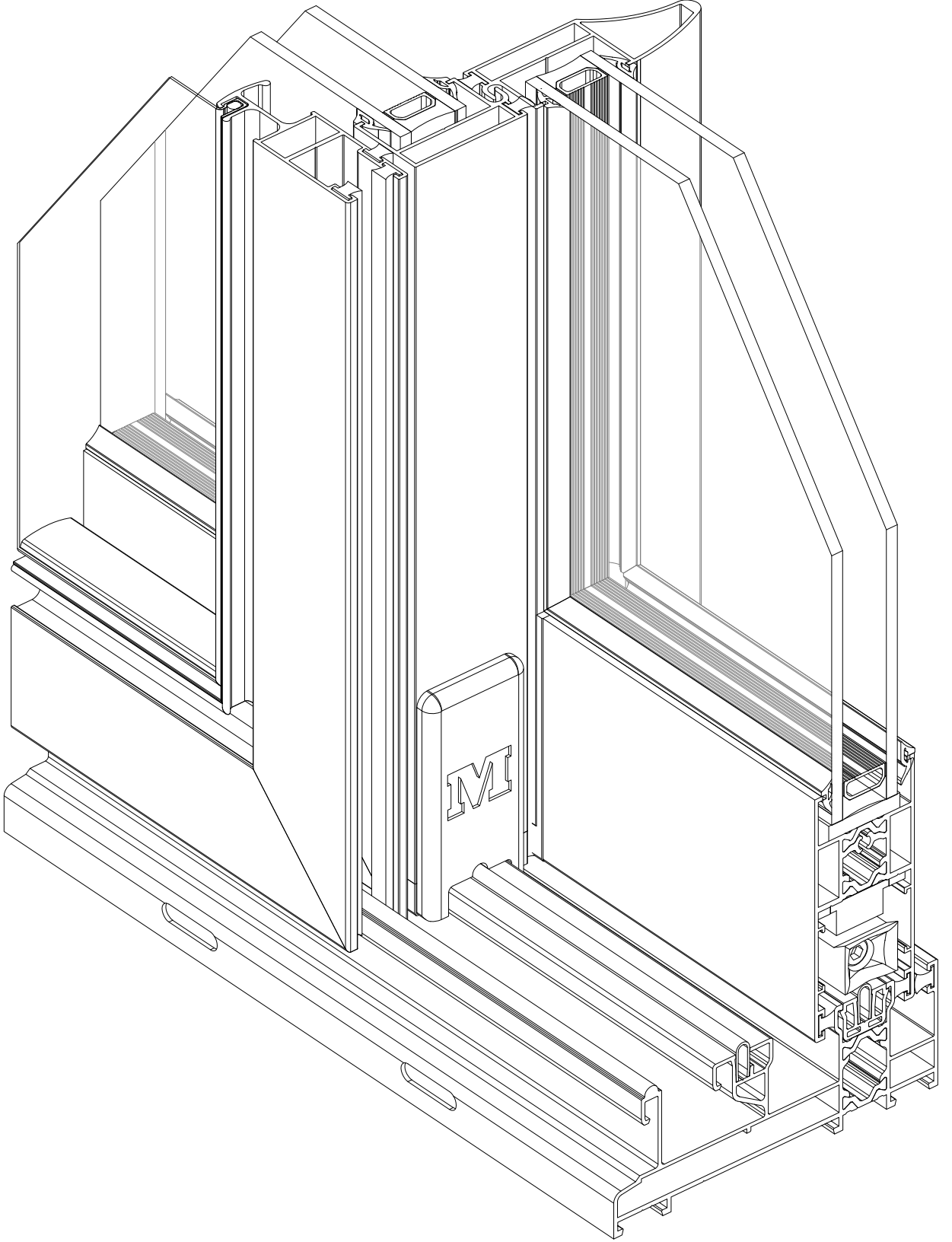
FERMO
SYSTEM

51

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MAESTRO 89 Insulated Sliding

SİSTEM KESİT DETAYLARI SYSTEM CROSS SECTION DETAILS

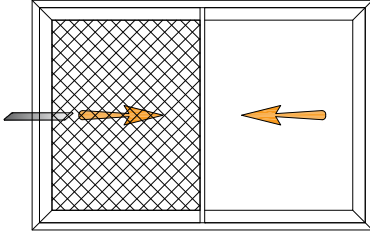


FERMOSA
SYSTEM

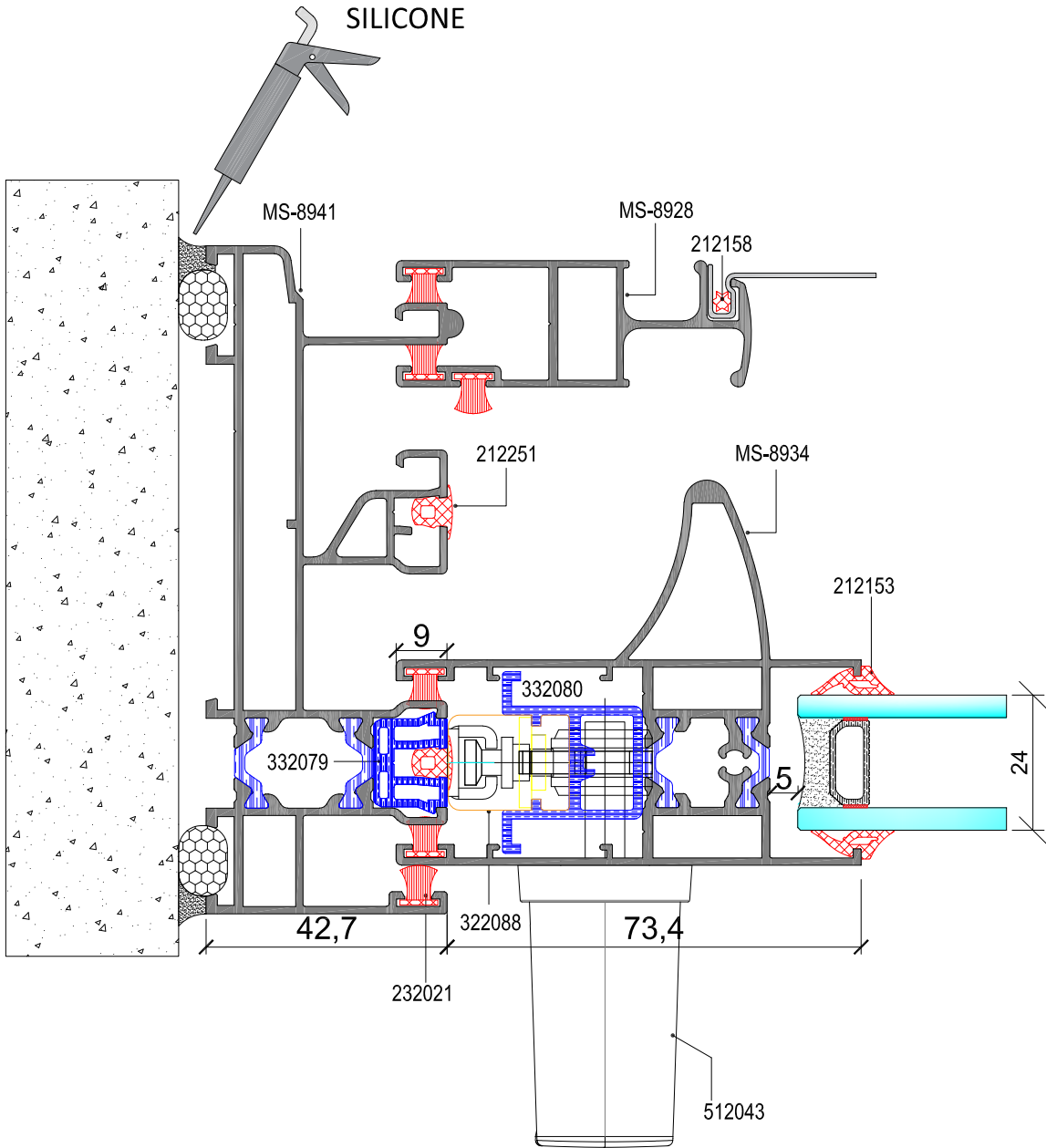
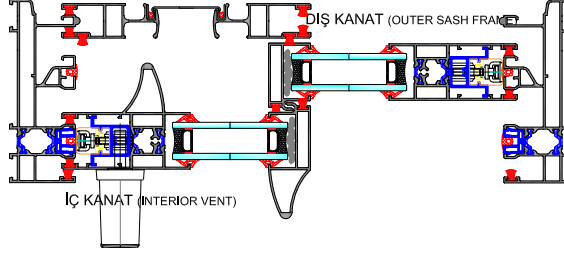
52

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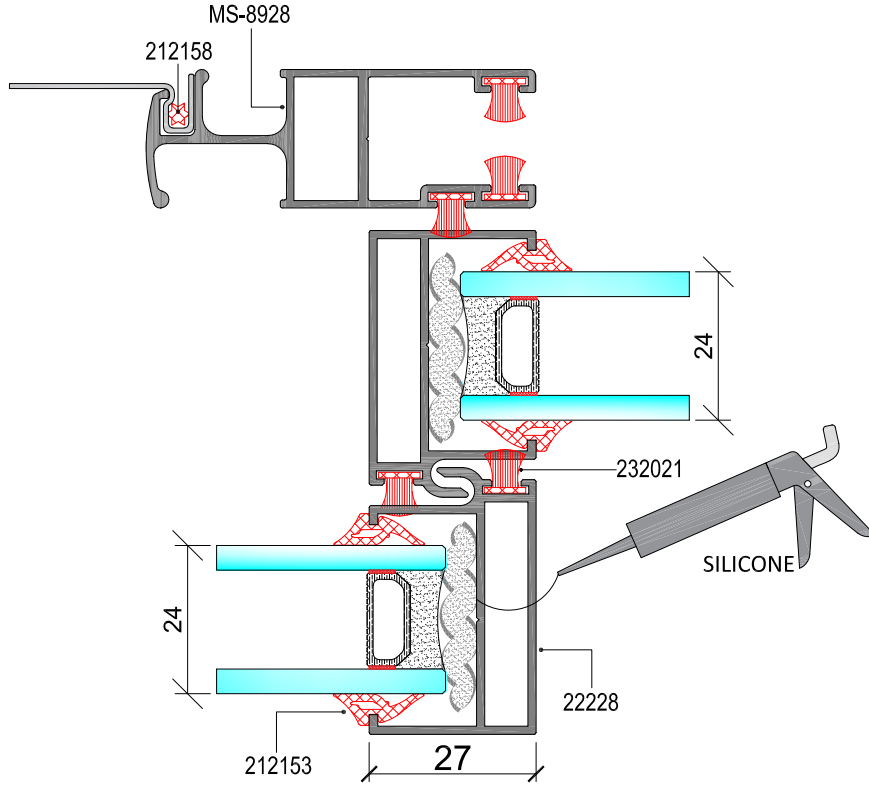
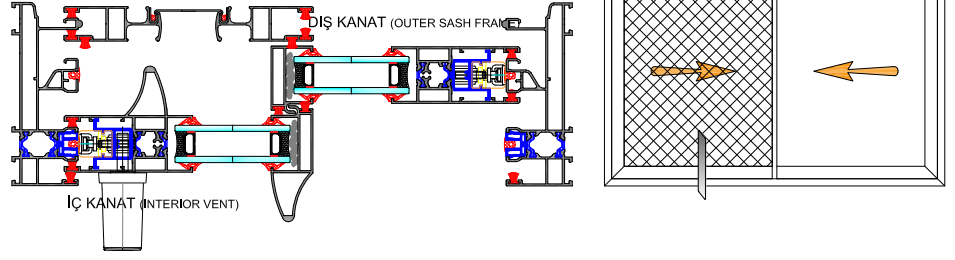


ÇİFT KANATLI SÜRME DETAYI
DOUBLE SASH SLIDING DETAIL



MAESTRO 89 Insulated Sliding

ÇİFT KANATLI SÜRME DETAYI DOUBLE SASH SLIDING DETAIL

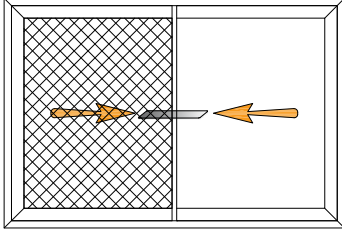


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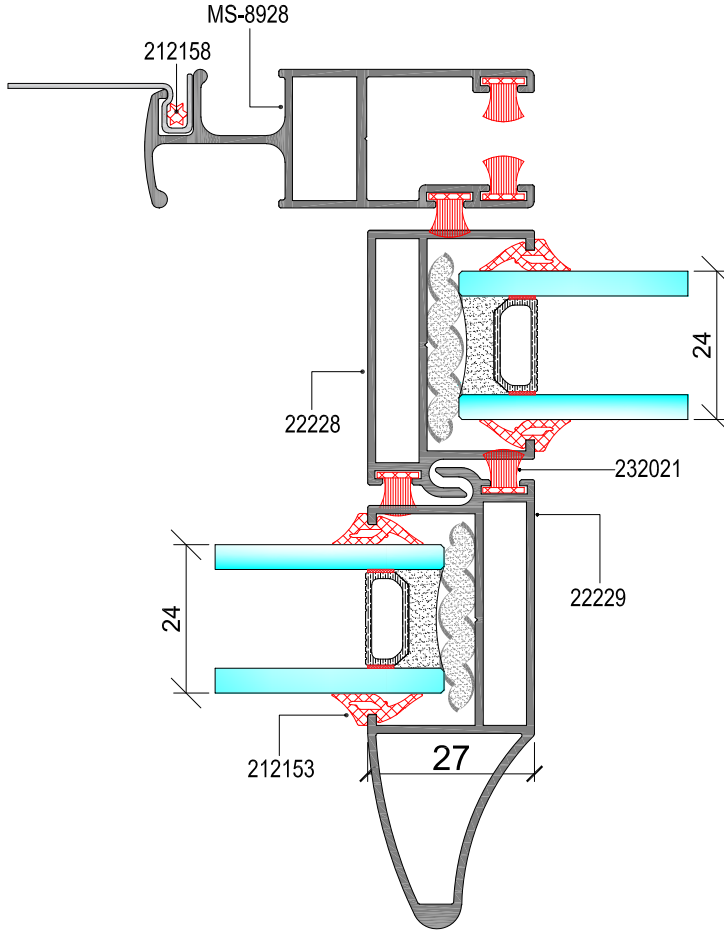
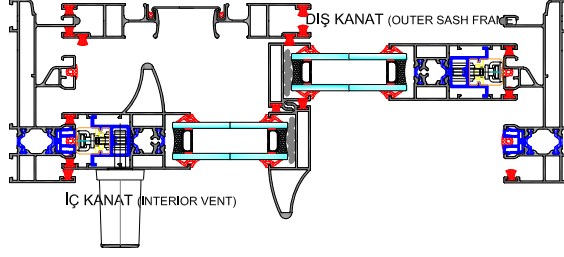
SYSTEM

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MAESTRO 89 Insulated Sliding

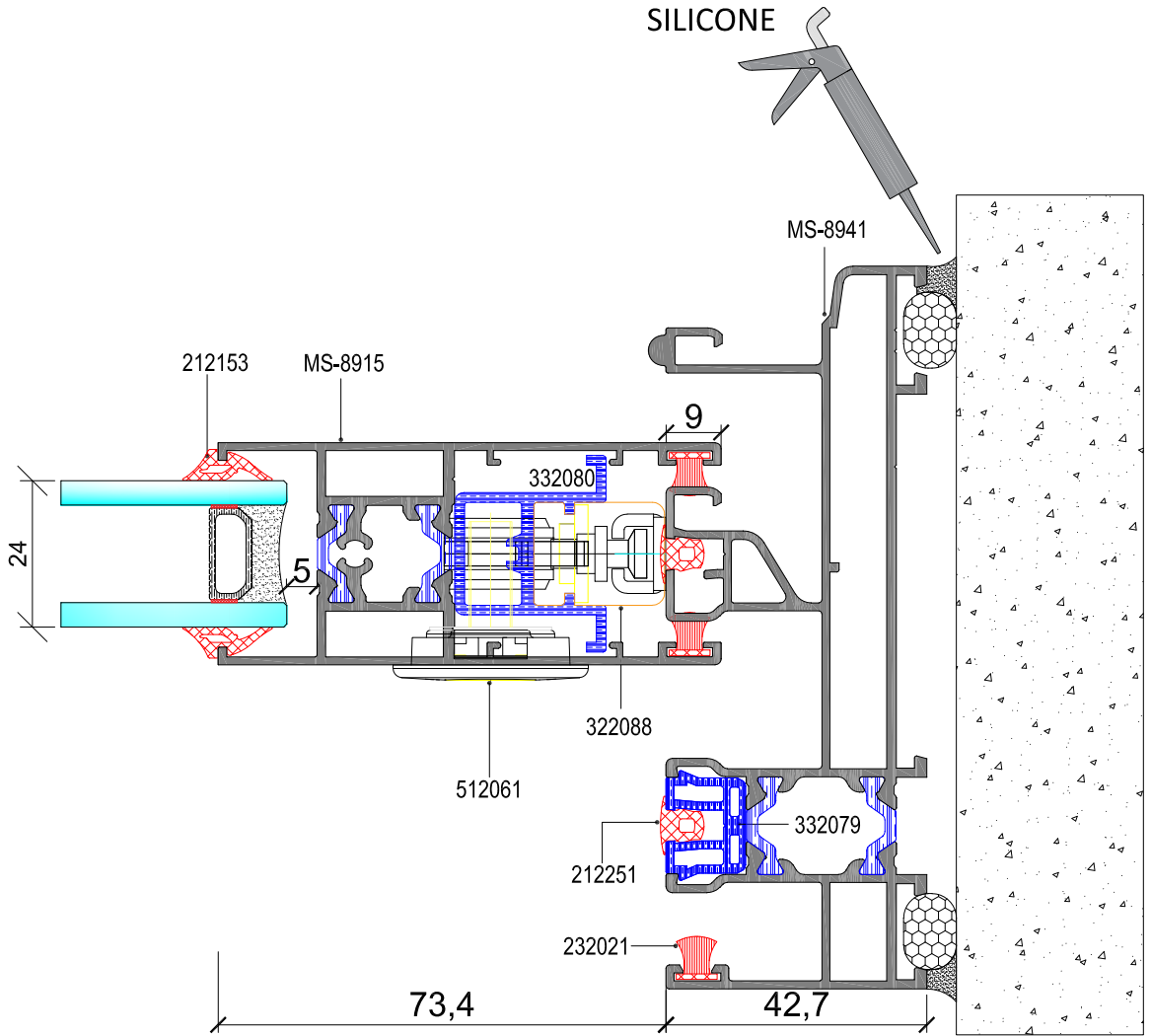
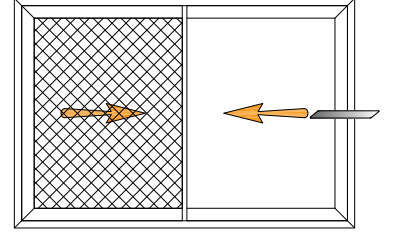
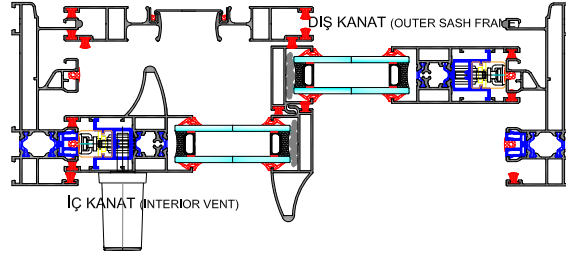


ÇİFT KANATLI SÜRME DETAYI
DOUBLE SASH SLIDING DETAIL



MAESTRO 89 Insulated Sliding

ÇİFT KANATLI SÜRME DETAYI DOUBLE SASH SLIDING DETAIL



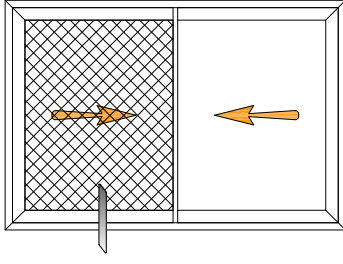
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SYSTEM

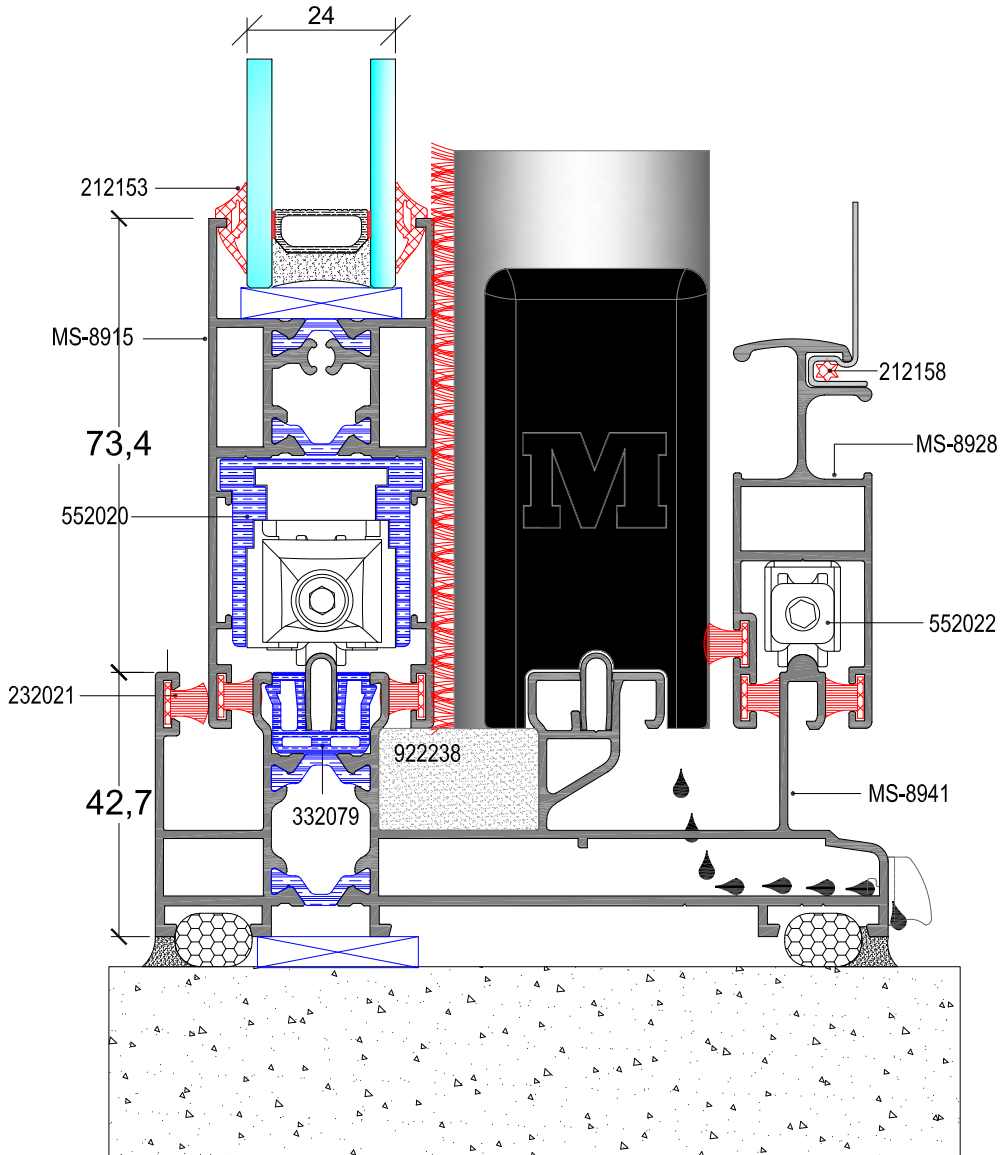
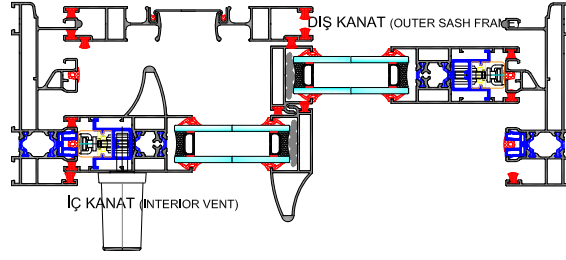
56

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MAESTRO 89 Insulated Sliding

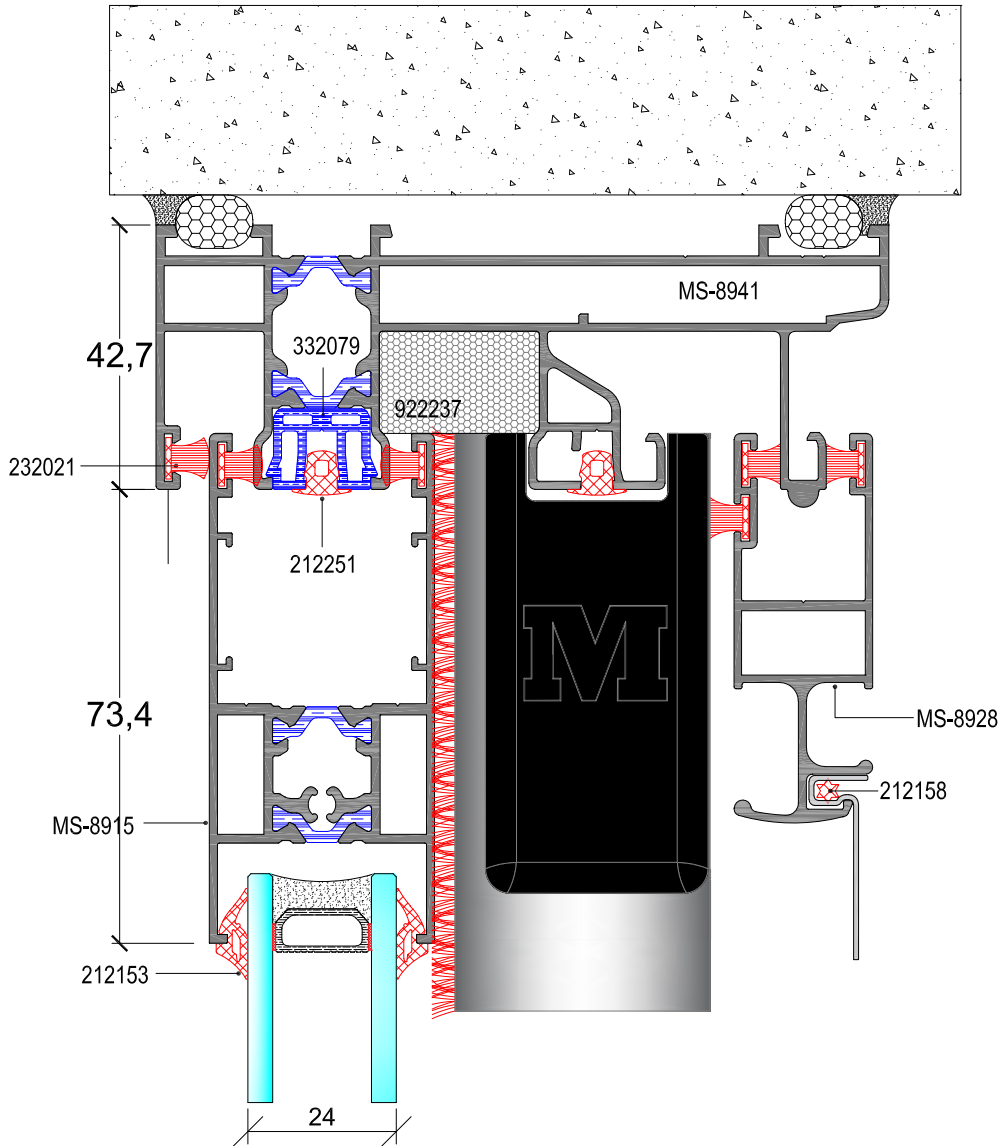
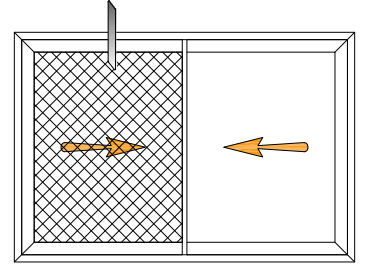
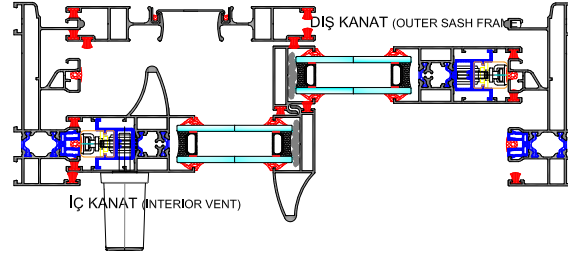


ÇİFT KANATLI SÜRME DETAYI
DOUBLE SASH SLIDING DETAIL



MAESTRO 89 Insulated Sliding

ÇİFT KANATLI SÜRME DETAYI DOUBLE SASH SLIDING DETAIL



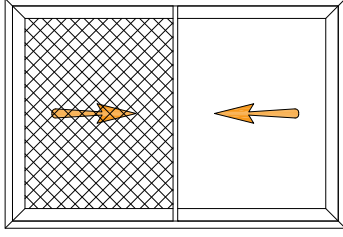
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SYSTEM

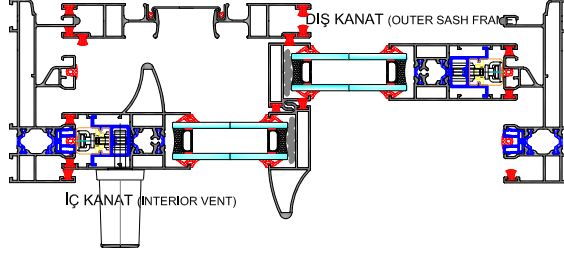
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MAESTRO 89 Insulated Sliding



ÇİFT KANATLI SÜRME DETAYI DOUBLE SASH SLIDING DETAIL



PROFİLLER / PROFILES

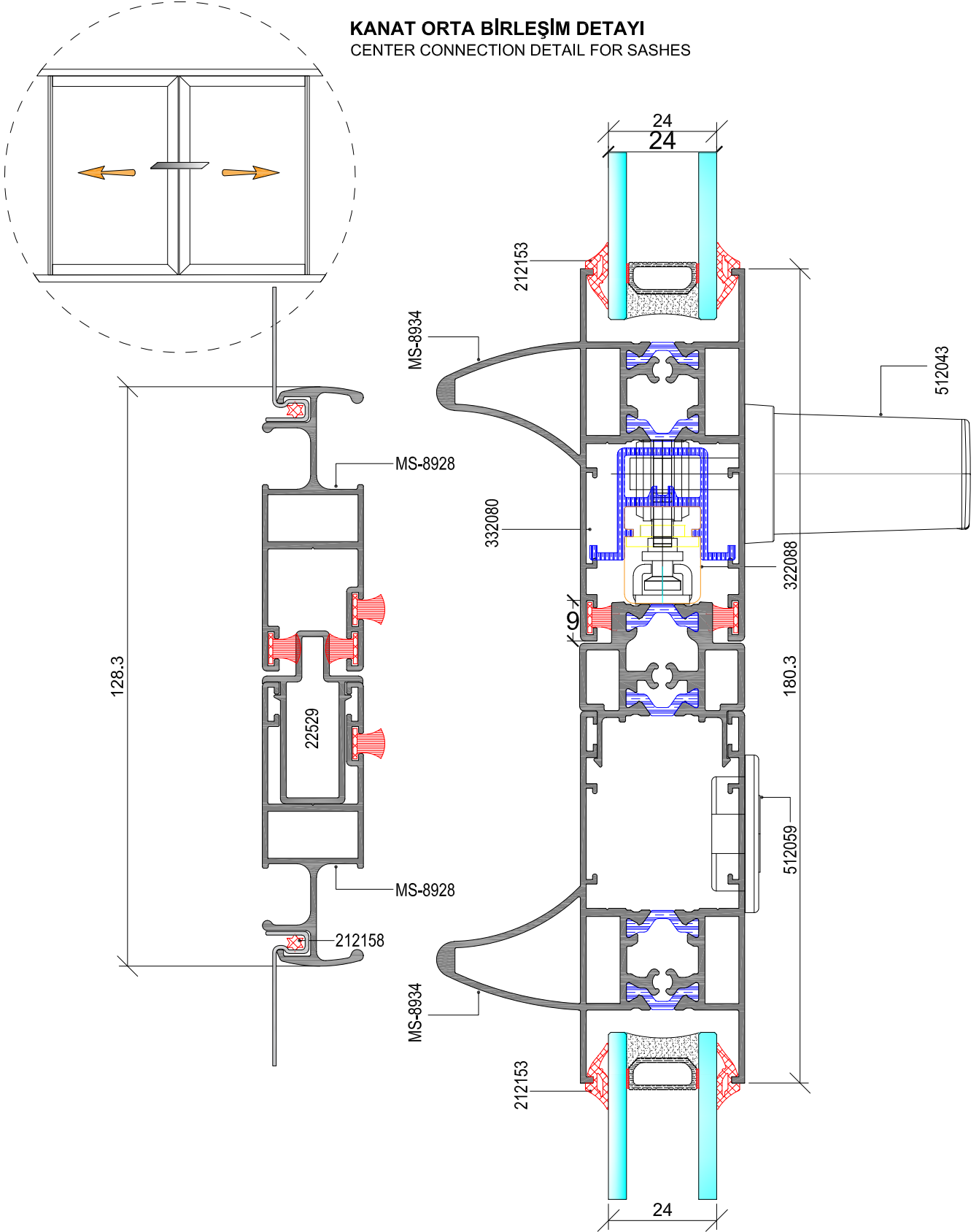
ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ CUTTING SIZE	KESİM AÇISI CUTTING ANGLE
2	MS-8940	DÜŞEY KASA PR. / VERTICAL FRAME PR.	H	45°/45°
2	MS-8940	YATAY KASA PR. / HORIZONTAL FRAME PR.	L	45°/45°
2	MS-8915	DÜŞEY KANAT PR. / VERTICAL SASH PR.	H - 67,4	45°/45°
1	MS-8934	DÜŞEY KANAT PR. / VERTICAL SASH PR.(SEÇENEK)	H - 67,4	45°/45°
4	MS-8915	YATAY KANAT PR./ HORIZONTAL SASH PR.	L/2 - 49,6	45°/90°
1	22228	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
1	22229	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
2	MS-8920	DÜŞEY KANAT PR. / VERTICAL SASH PR.(SEÇENEK)	H - 67,4	45°/45°
2	MS-8915	YATAY KANAT PR./ HORIZONTAL SASH PR.	L/2 - 20	45°/45°

AKSESUARLAR / ACCESSORIES

ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ CUTTING SIZE	KESİM AÇISI CUTTING ANGLE
4	111350	KÖŞE TAKOZU / CORNER CLEAT	-	
4	111345	KÖŞE TAKOZU / CORNER CLEAT	-	
4	111303	KÖŞE TAKOZU / CORNER CLEAT	-	
4	162001	KÖŞE ÇAVUŞU / CORNER ALIGNMENT	-	
1	372002	TAPA SETİ / PLUG KIT	-	
4	552020	RULMAN / PULLEY	-	
1	922237	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
1	922238	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
-	322079	PVC RAY PROFİLİ / PVC RAIL PROFILE	2L + 2H	45°/45°
-	212251	RAY KAPATMA FİTİLİ / GASKET	1L + 1H	
-	212153	KAMA FİTİLİ / GASKET FOR GLAZING	4L + 6H	
-	332036	ÇELİK RAY / STEEL RAIL	2L	
-	332080	PVC İSPANYOLET PR. / PVC ESPAGNOLETTE PR.	1H	90°/90°
2	322088	KANAT STOPER / STOPPER FOR SASH	-	
1	322094	TAKVİYELİ KANAT TAPA SETİ TAKIM.	-	
2	552022	RULMAN / PULLEY	-	

MAESTRO 89 Insulated Sliding

KANAT ORTA BİRLEŞİM DETAYI CENTER CONNECTION DETAIL FOR SASHES

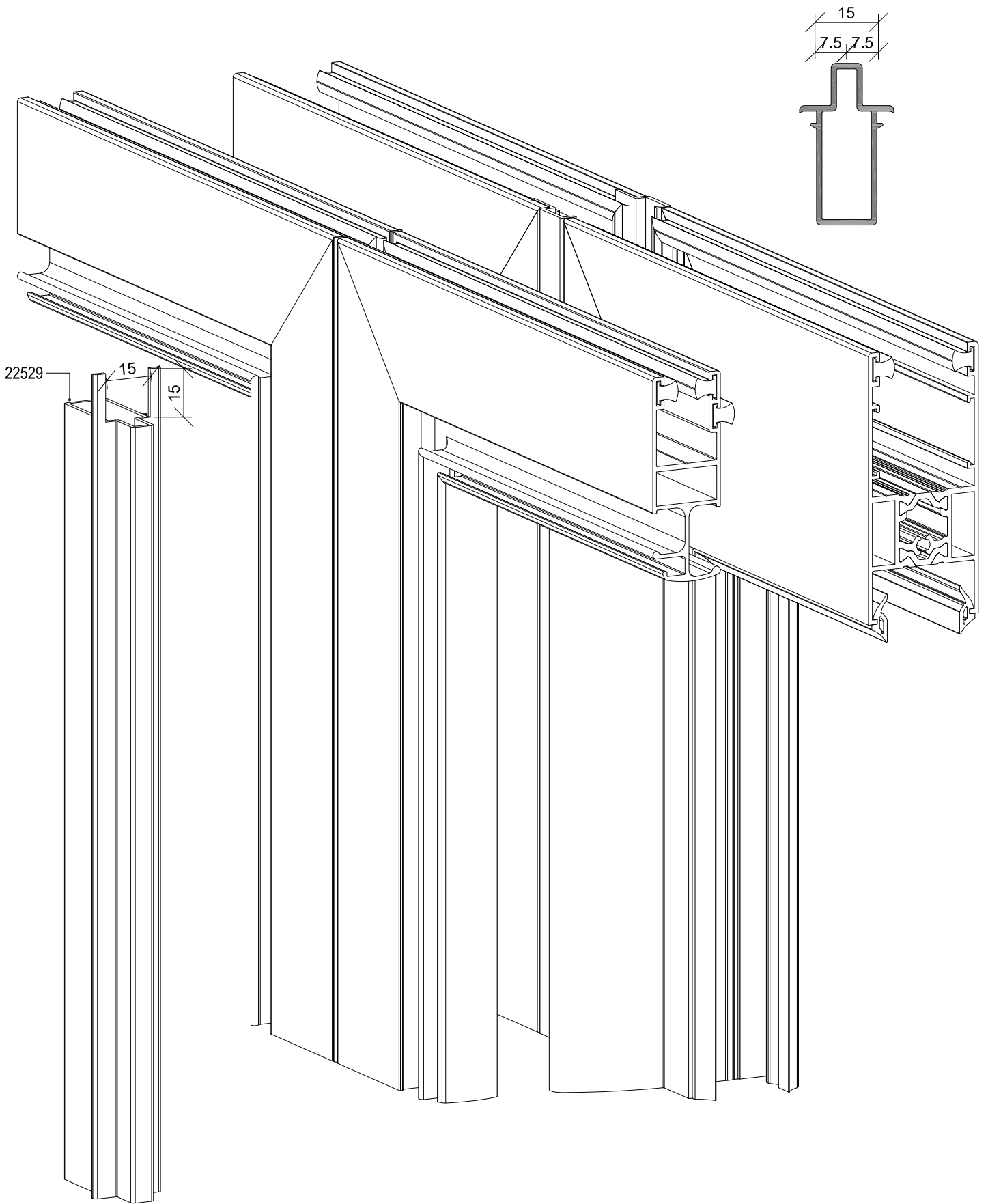


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SYSTEM

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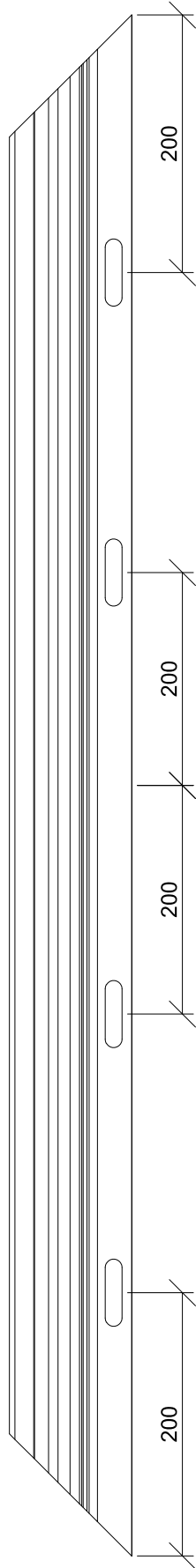
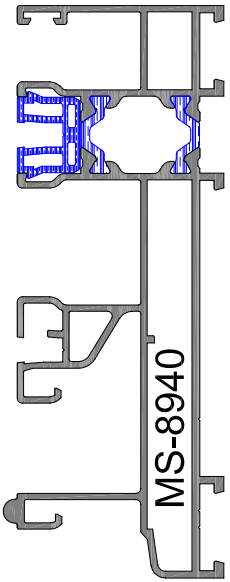
61

FERMO
SYSTEM

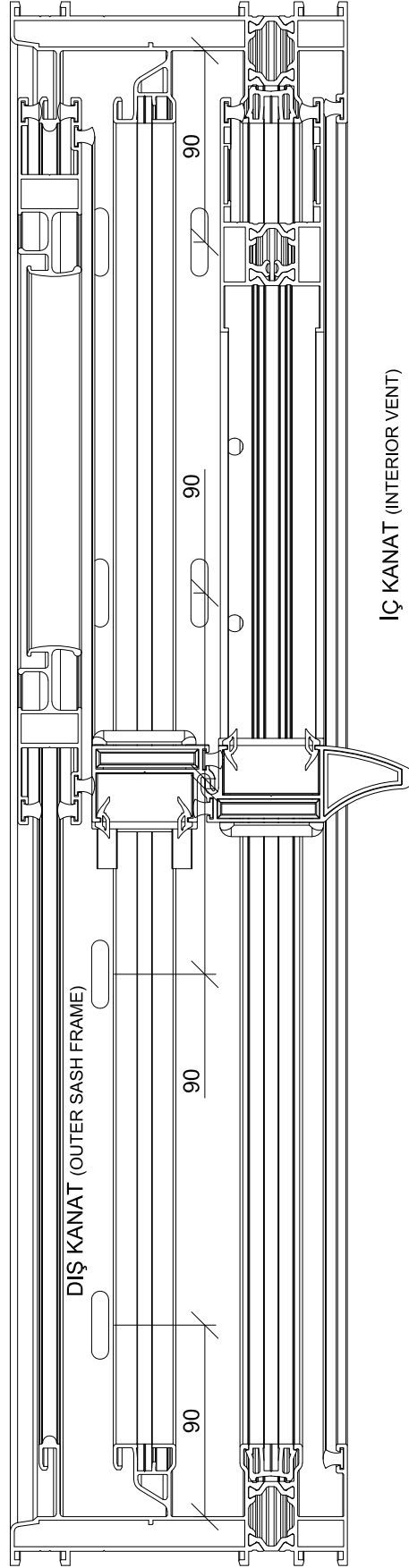
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KASA TAHLİYE DETAYI
WATER DRAINAGE CHANNEL DETAIL



SİNEKLİK KANAT (INSECT SASH)



DIŞ KANAT (OUTER SASH FRAME)

İÇ KANAT (INTERIOR VENT)

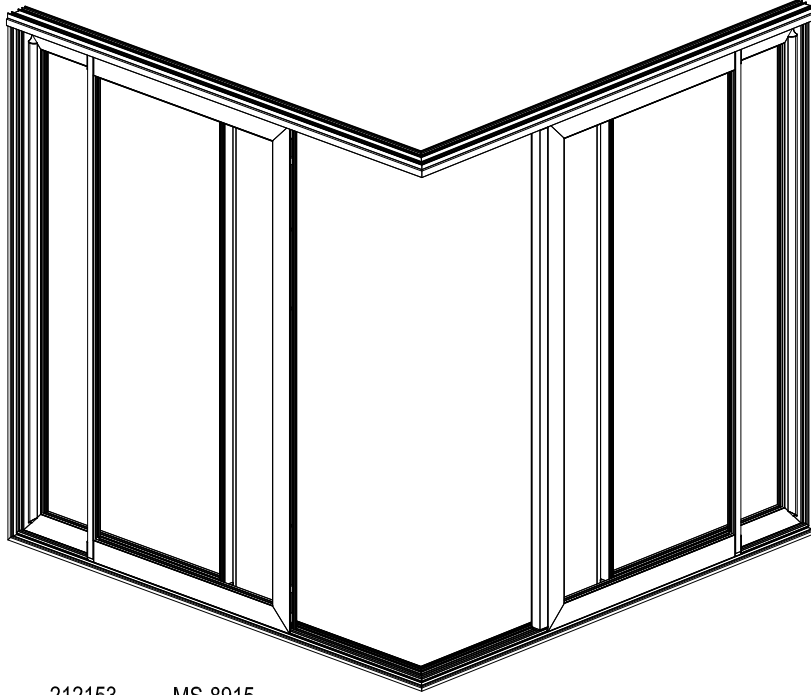
FERMO SA

SYSTEM

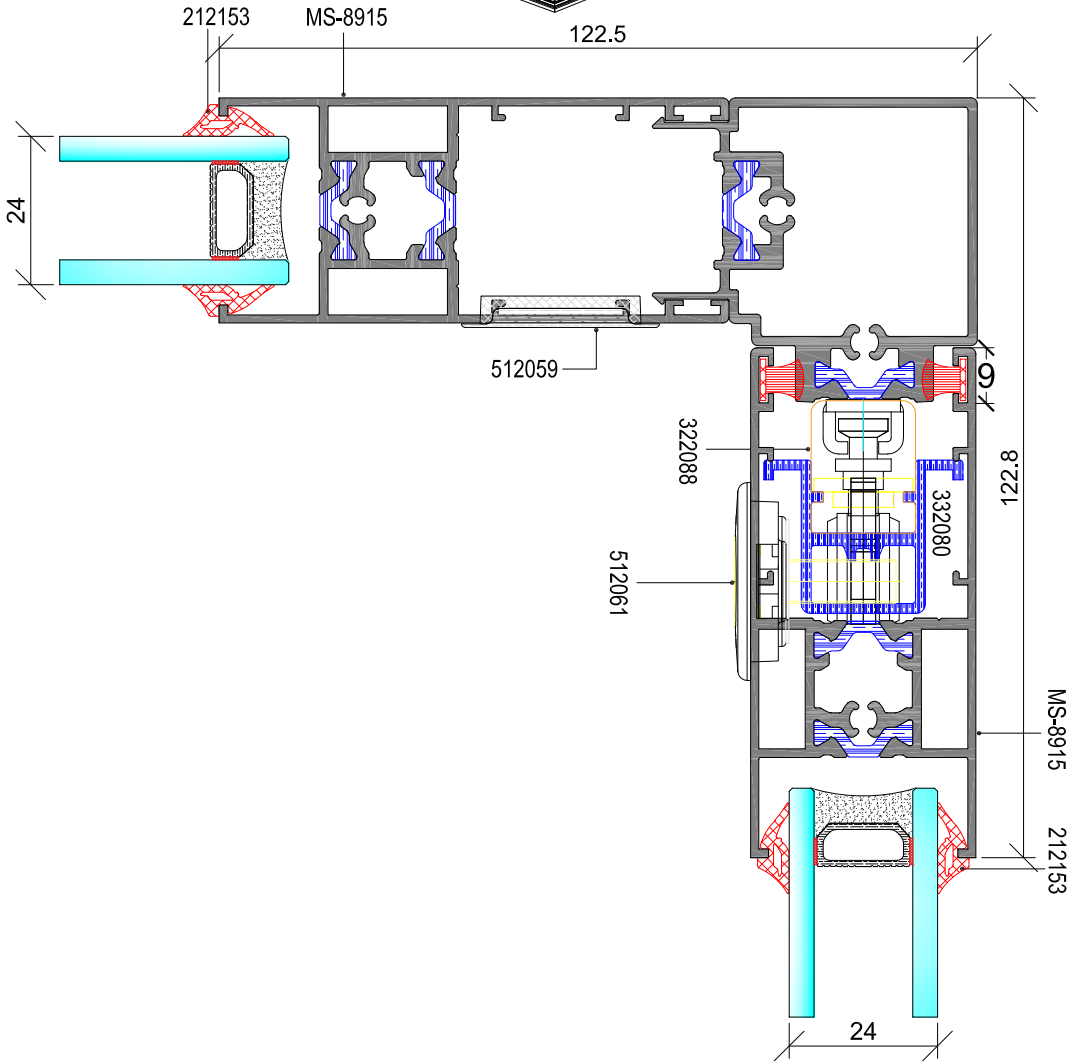
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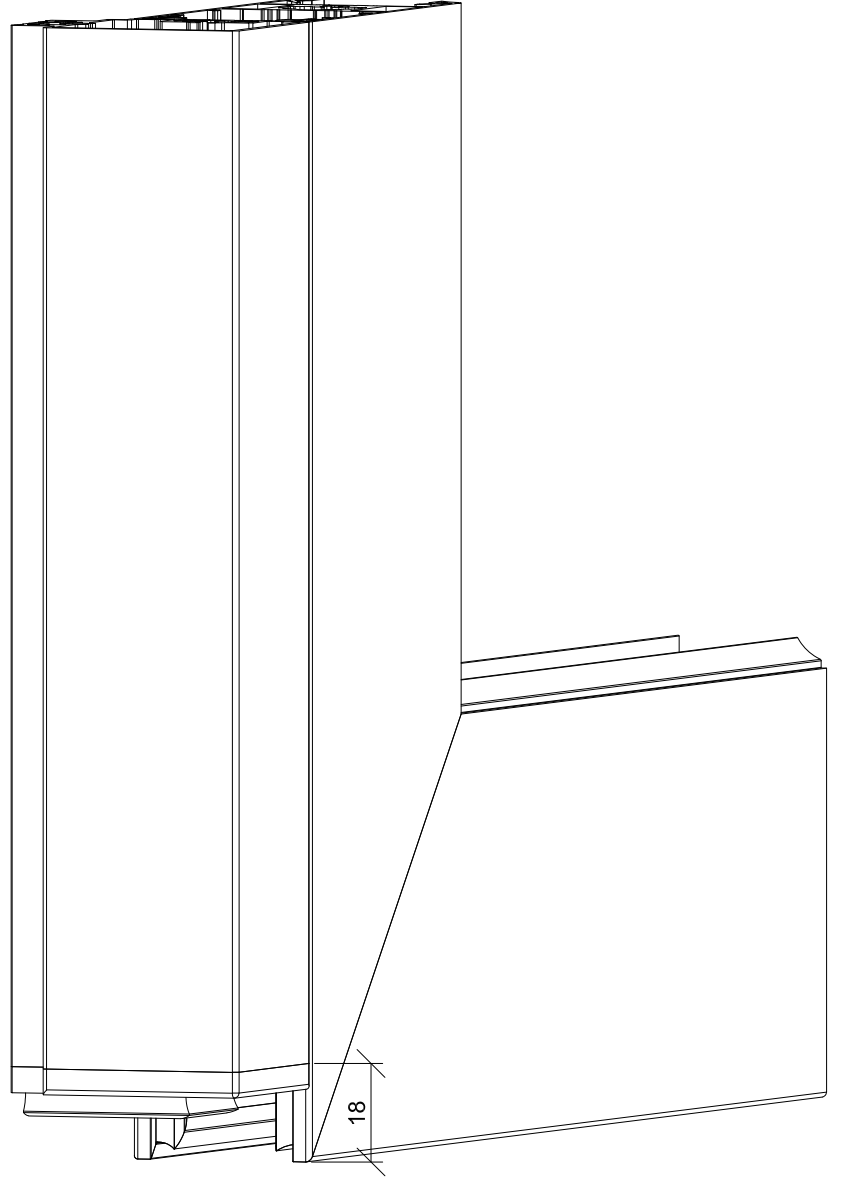
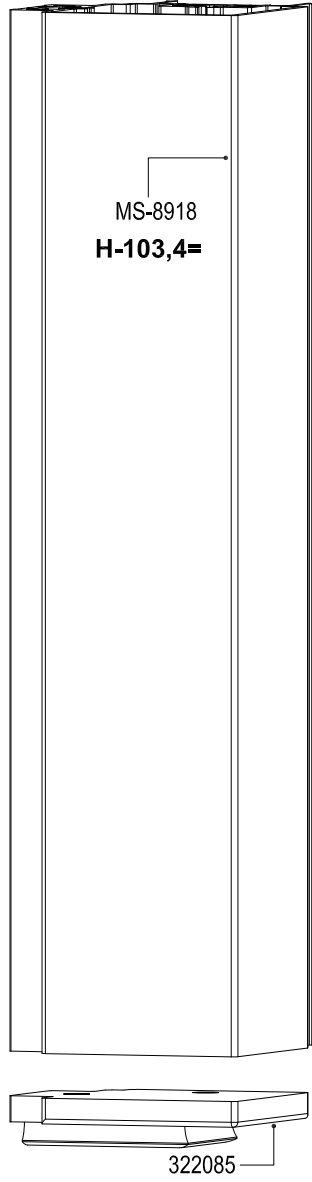


HAREKETLİ KÖŞE DETAYI
MOVABLE CORNER DETAIL



MAESTRO 89 Insulated Sliding

HAREKETLİ KÖŞE DETAYI
MOVABLE CORNER DETAIL

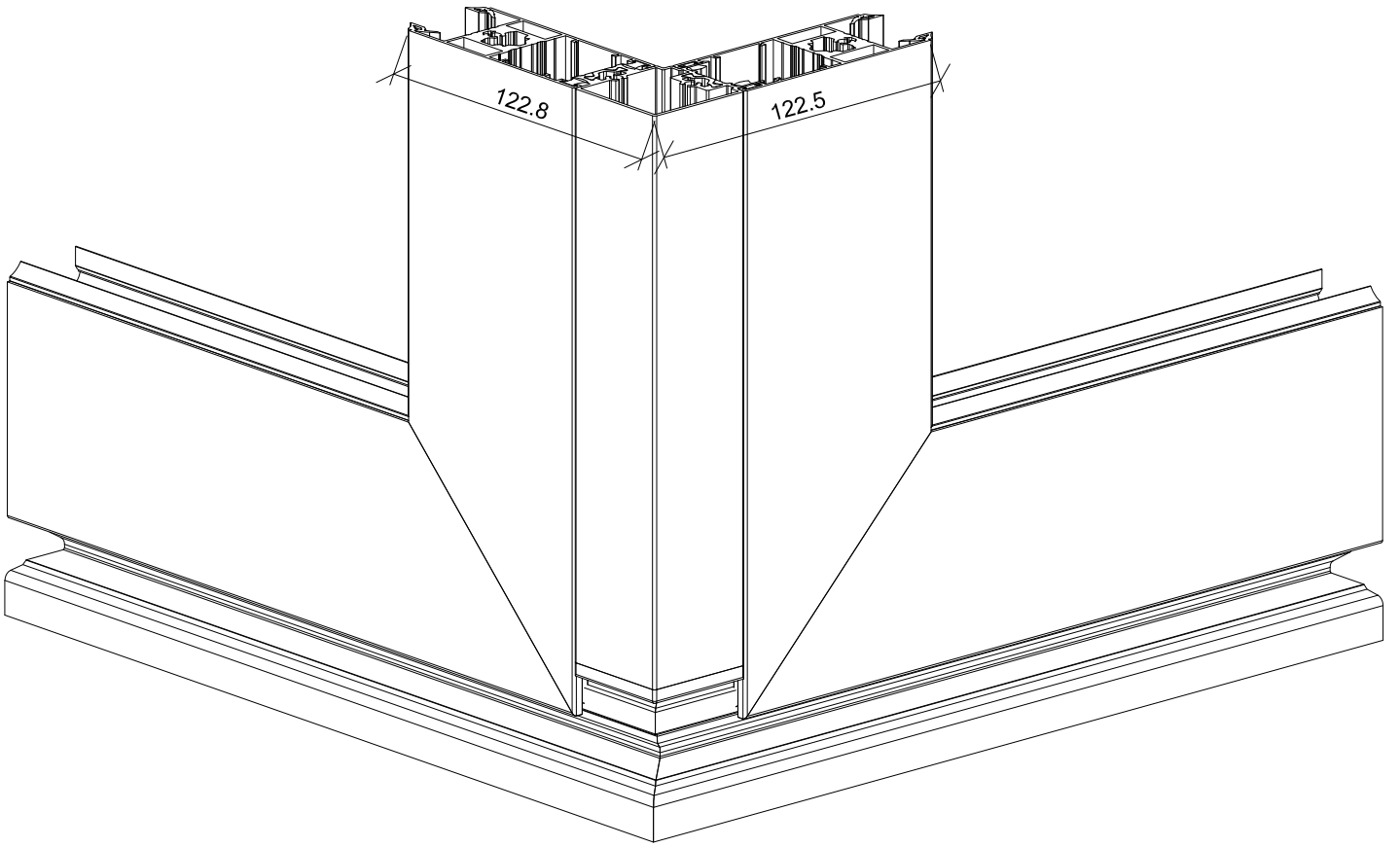


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SYSTEM

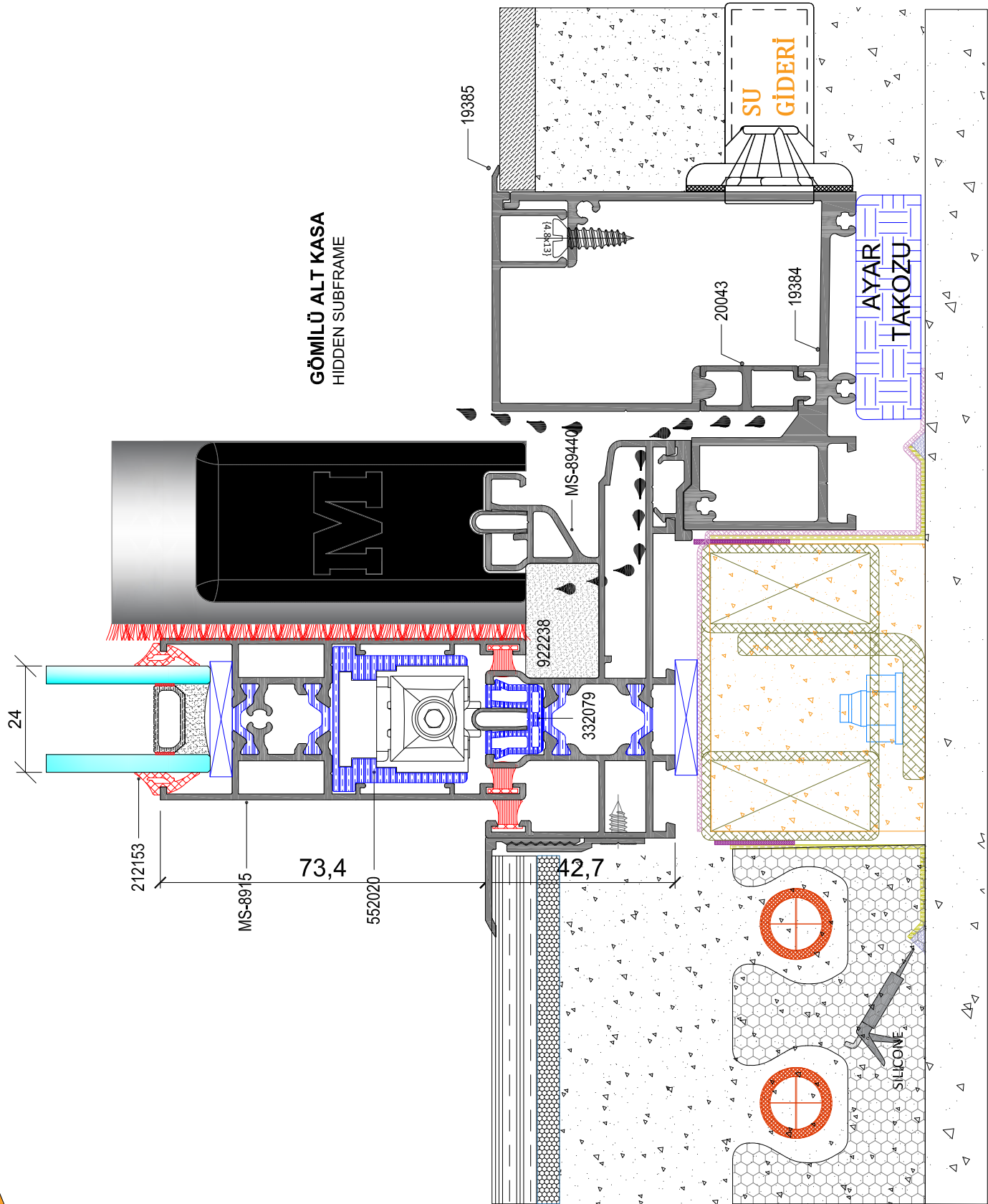
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HAREKETLİ KÖŞE DETAYI
MOVABLE CORNER DETAIL



MAESTRO 89 Insulated Sliding



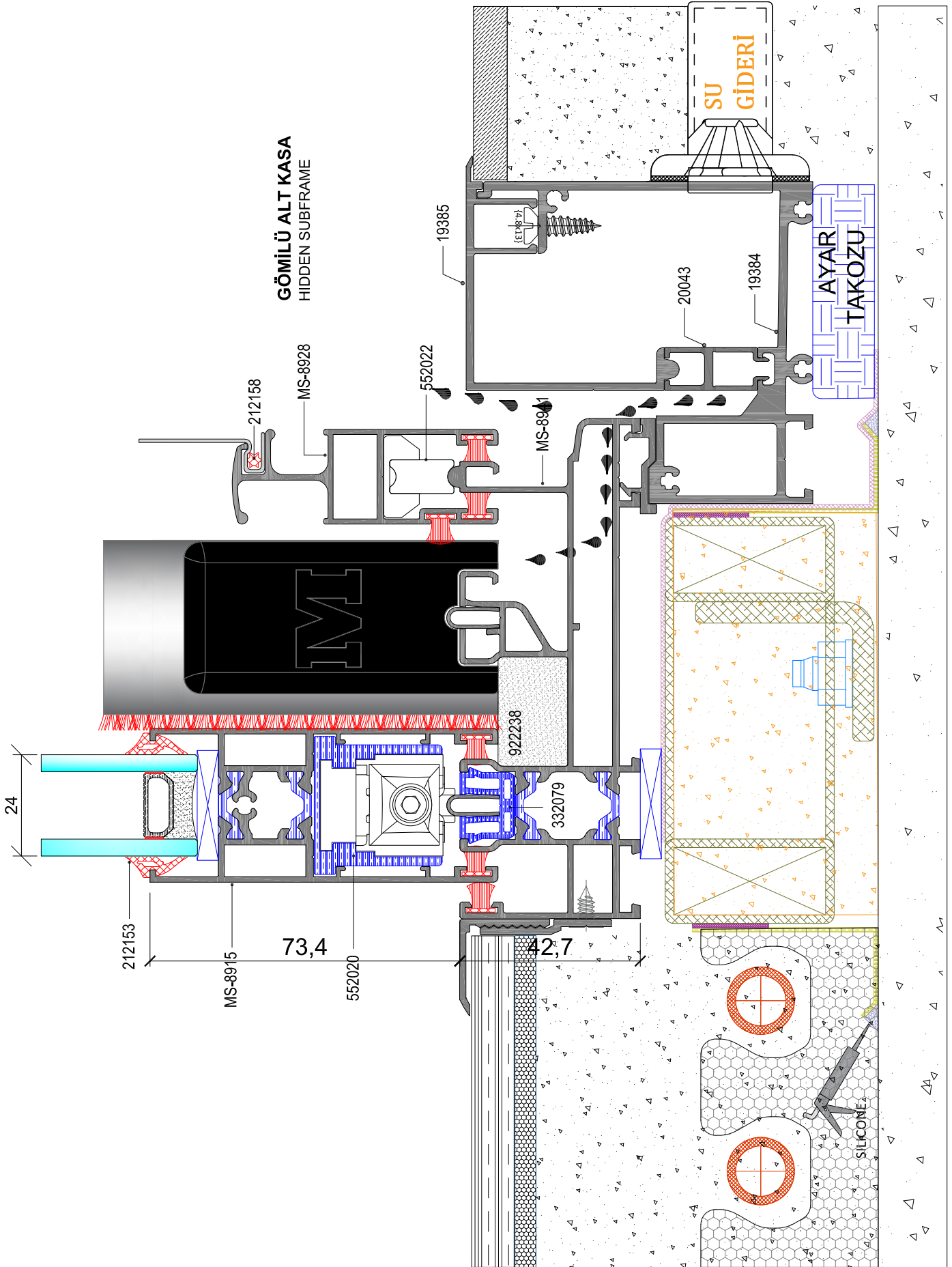
GÖMİLÜ ALT KASA
HIDDEN SUBFRAME

FERMO
SYSTEM

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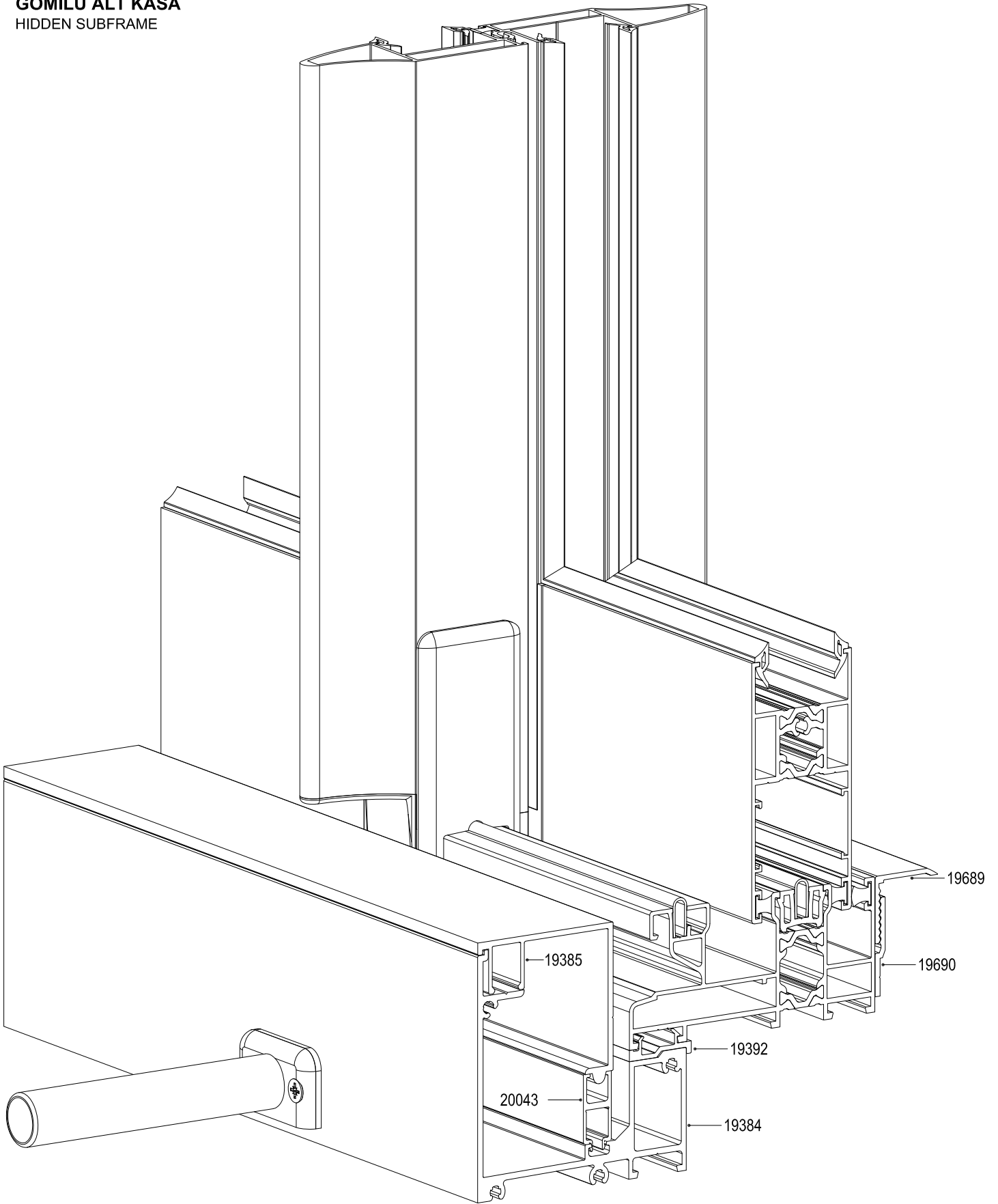
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GÖMİLÜ ALT KASA
HIDDEN SUBFRAME



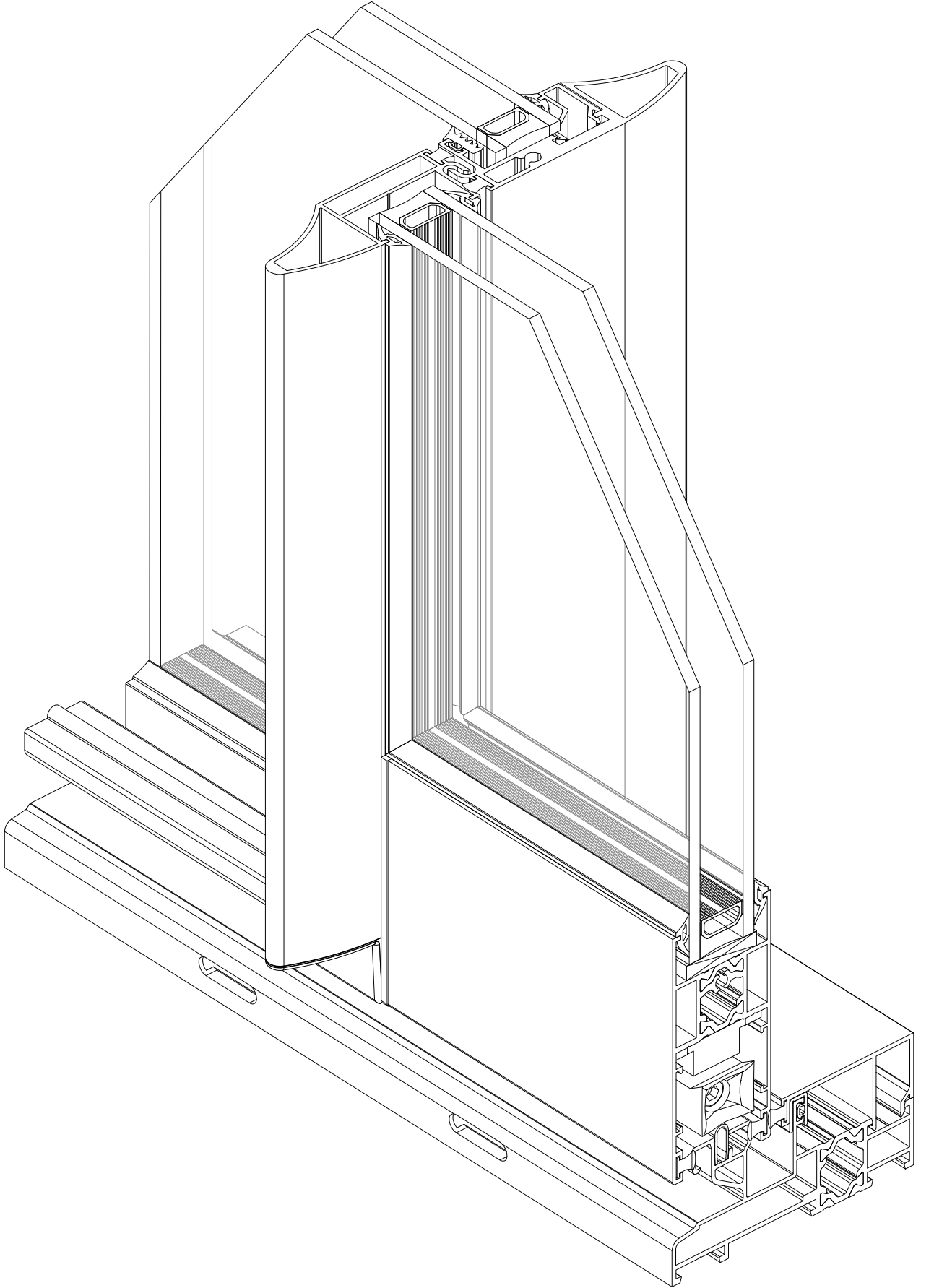
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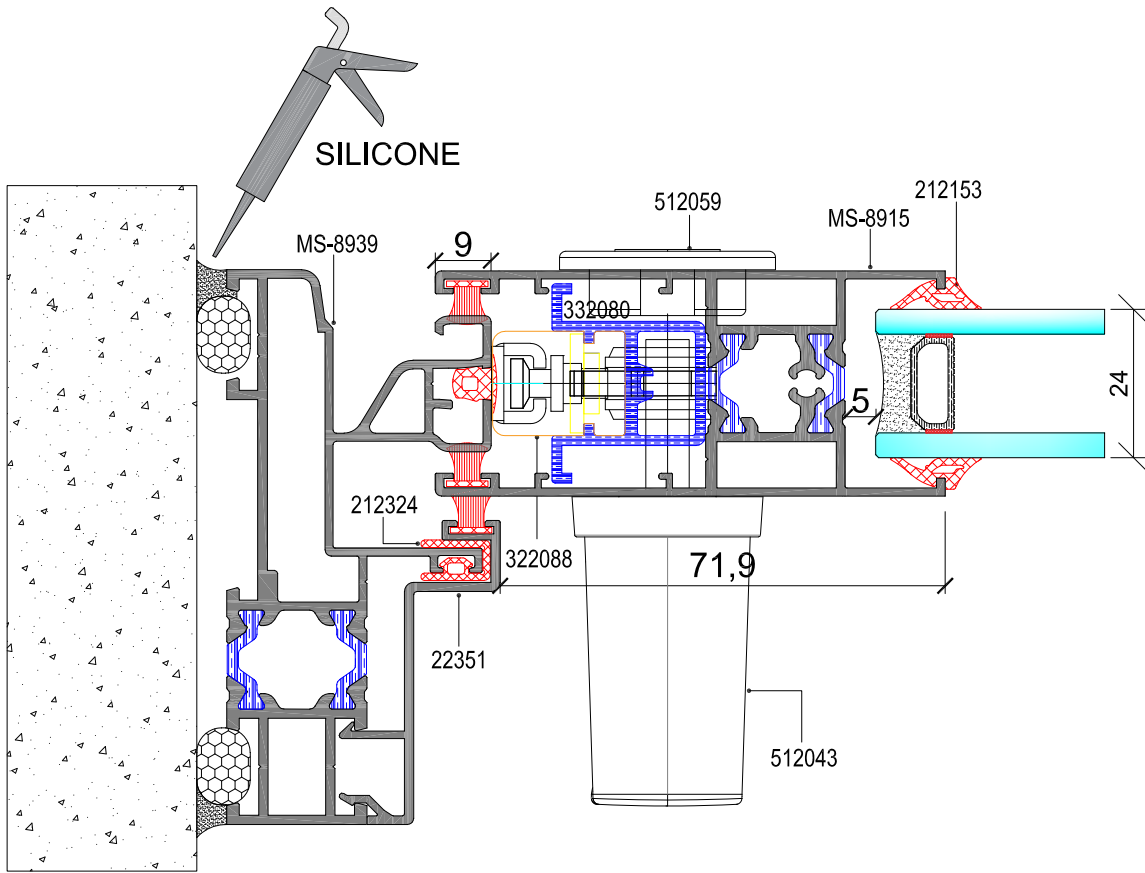
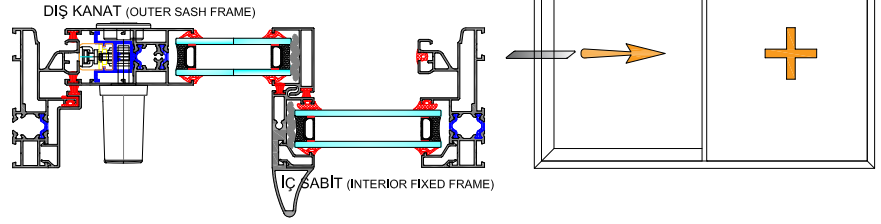
MAESTRO 89 Insulated Sliding

SİSTEM KESİT DETAYLARI SYSTEM CROSS SECTION DETAILS



MAESTRO 89 Insulated Sliding

TEK KANAT HAREKETLİ SÜRME DETAYI MONORAIL SLIDING INSULATED DETAIL

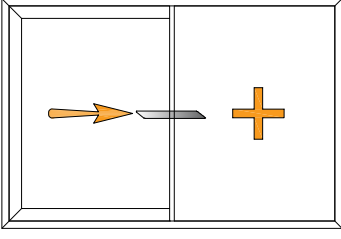


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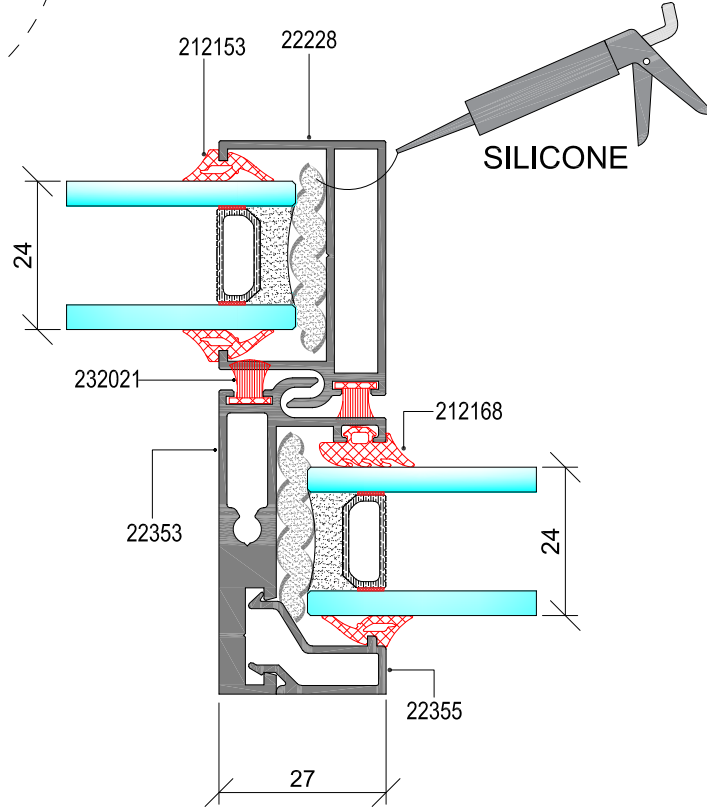
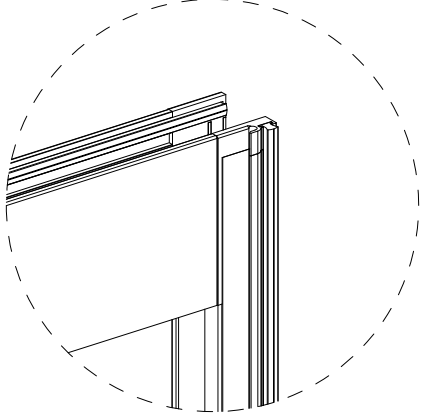
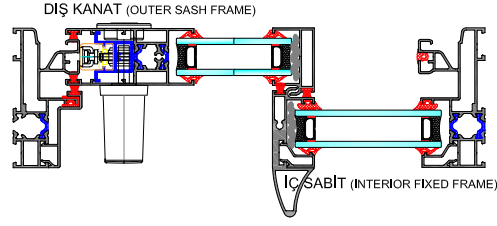
SYSTEM

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MAESTRO 89 Insulated Sliding

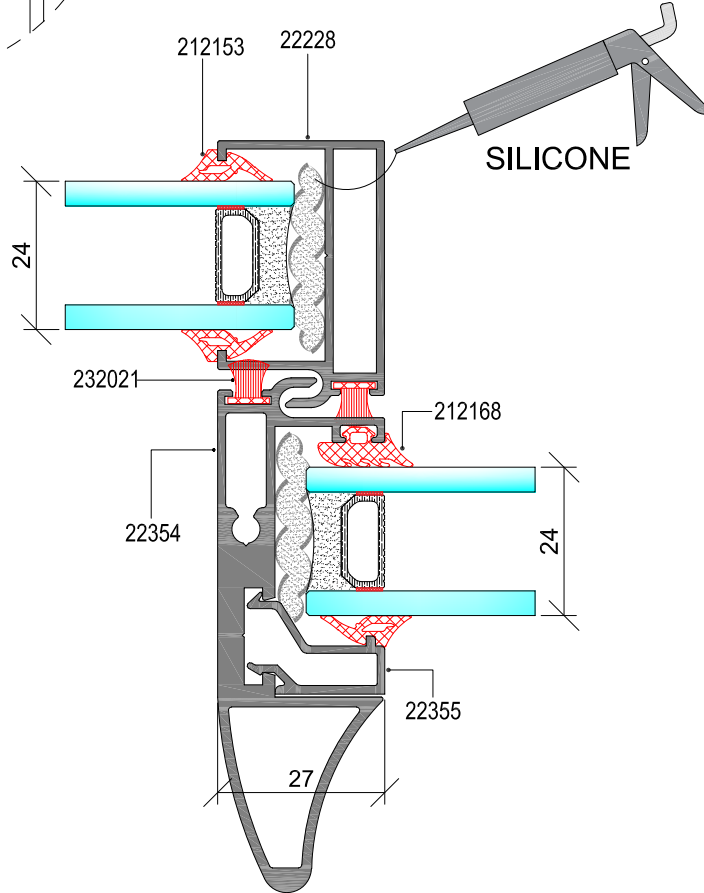
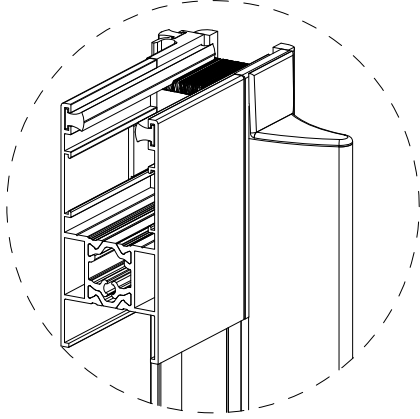
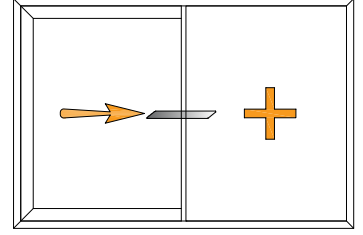
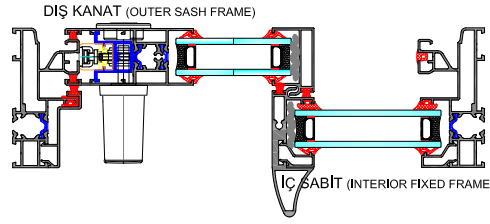


TEK KANAT HAREKETLİ SÜRME DETAYI MONORAIL SLIDING INSULATED DETAIL



MAESTRO 89 Insulated Sliding

TEK KANAT HAREKETLİ SÜRME DETAYI MONORAIL SLIDING INSULATED DETAIL

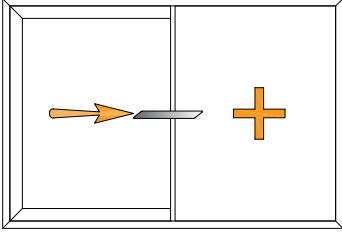


FERMO SA
SYSTEM

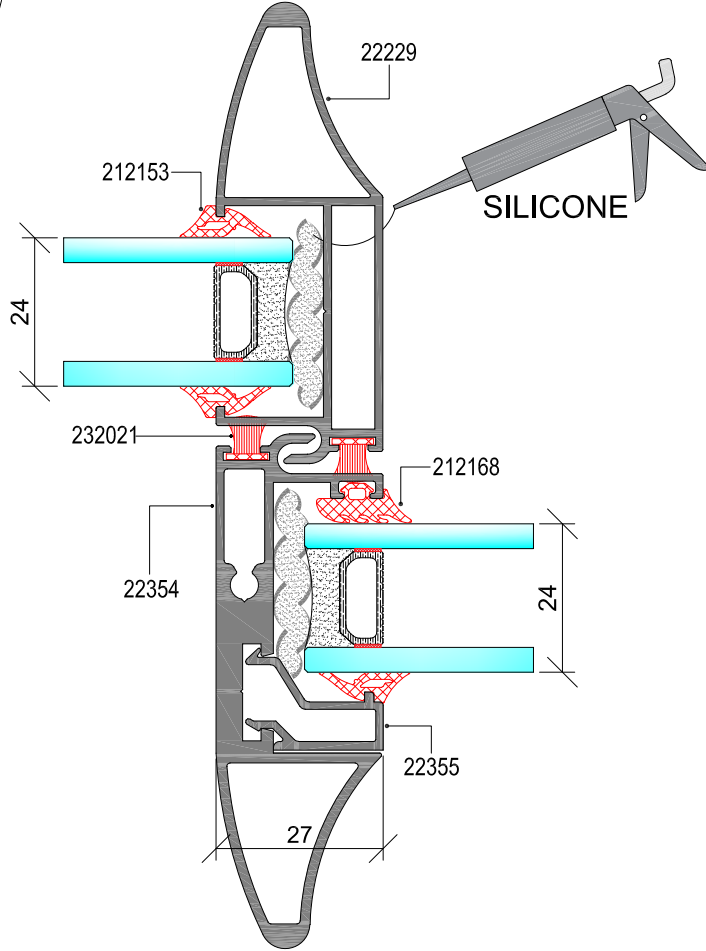
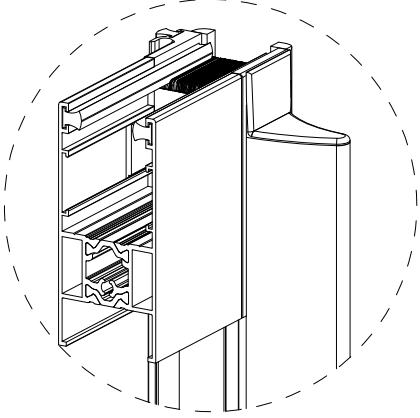
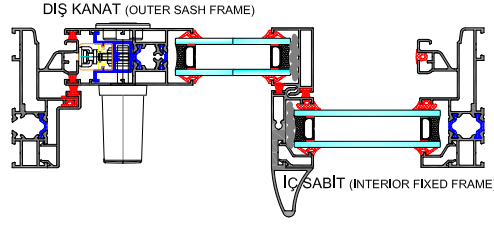
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MAESTRO 89 Insulated Sliding

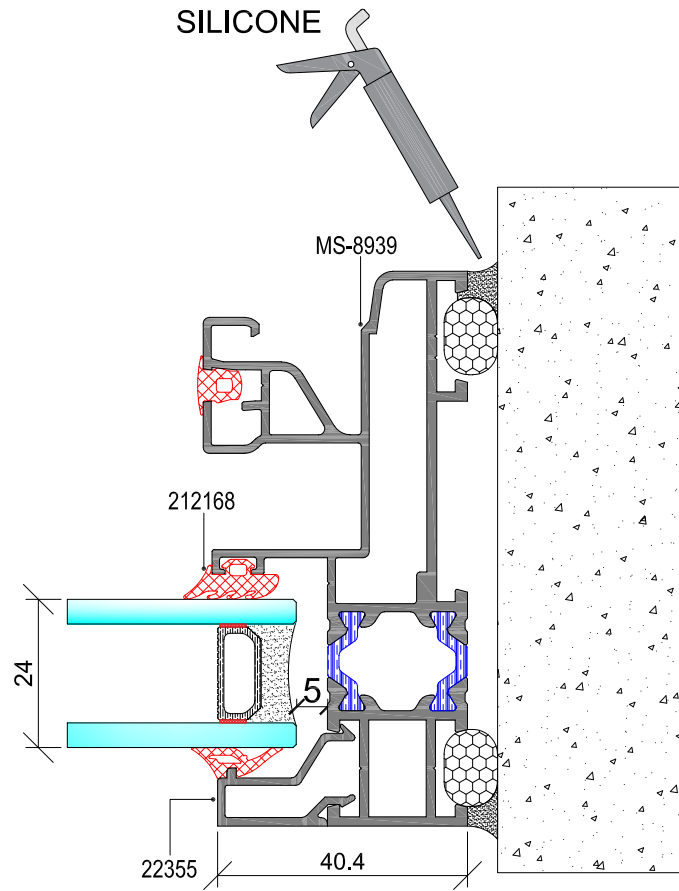
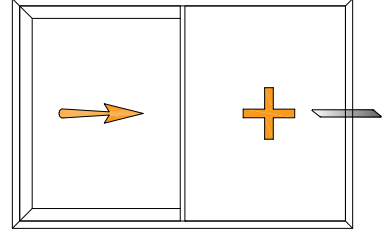
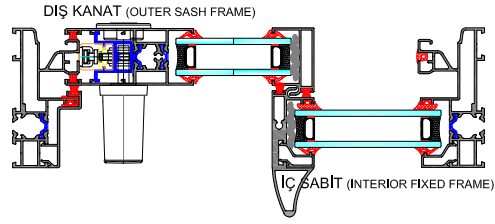


TEK KANAT HAREKETLİ SÜRME DETAYI MONORAIL SLIDING INSULATED DETAIL



MAESTRO 89 Insulated Sliding

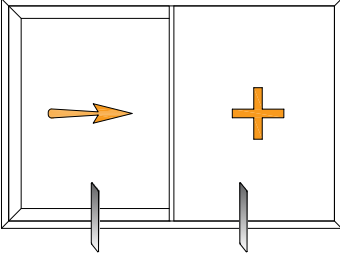
TEK KANAT HAREKETLİ SÜRME DETAYI MONORAIL SLIDING INSULATED DETAIL



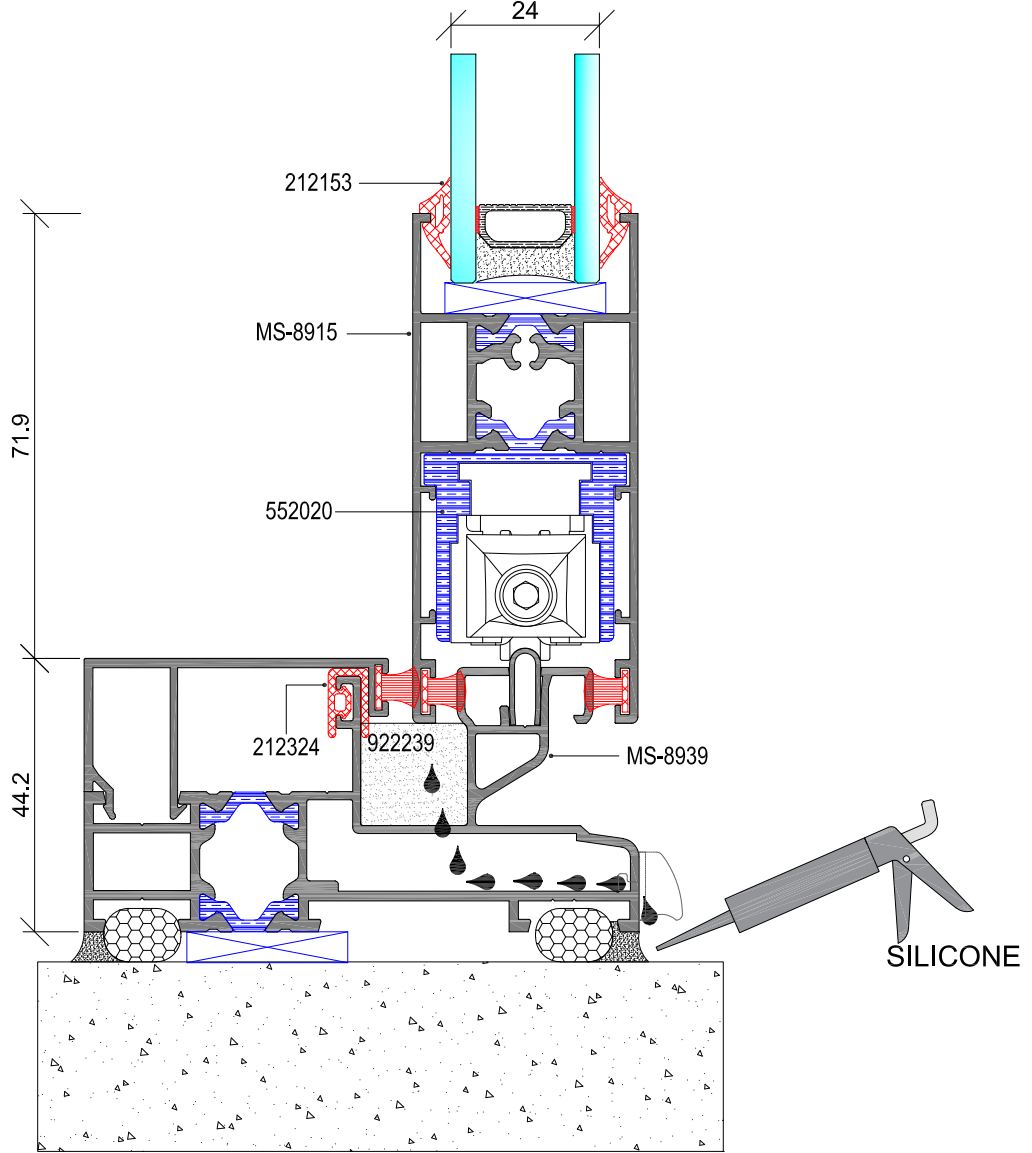
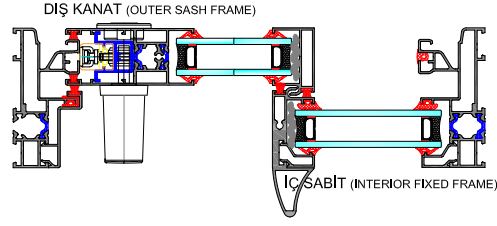
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SYSTEM

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MAESTRO 89 Insulated Sliding

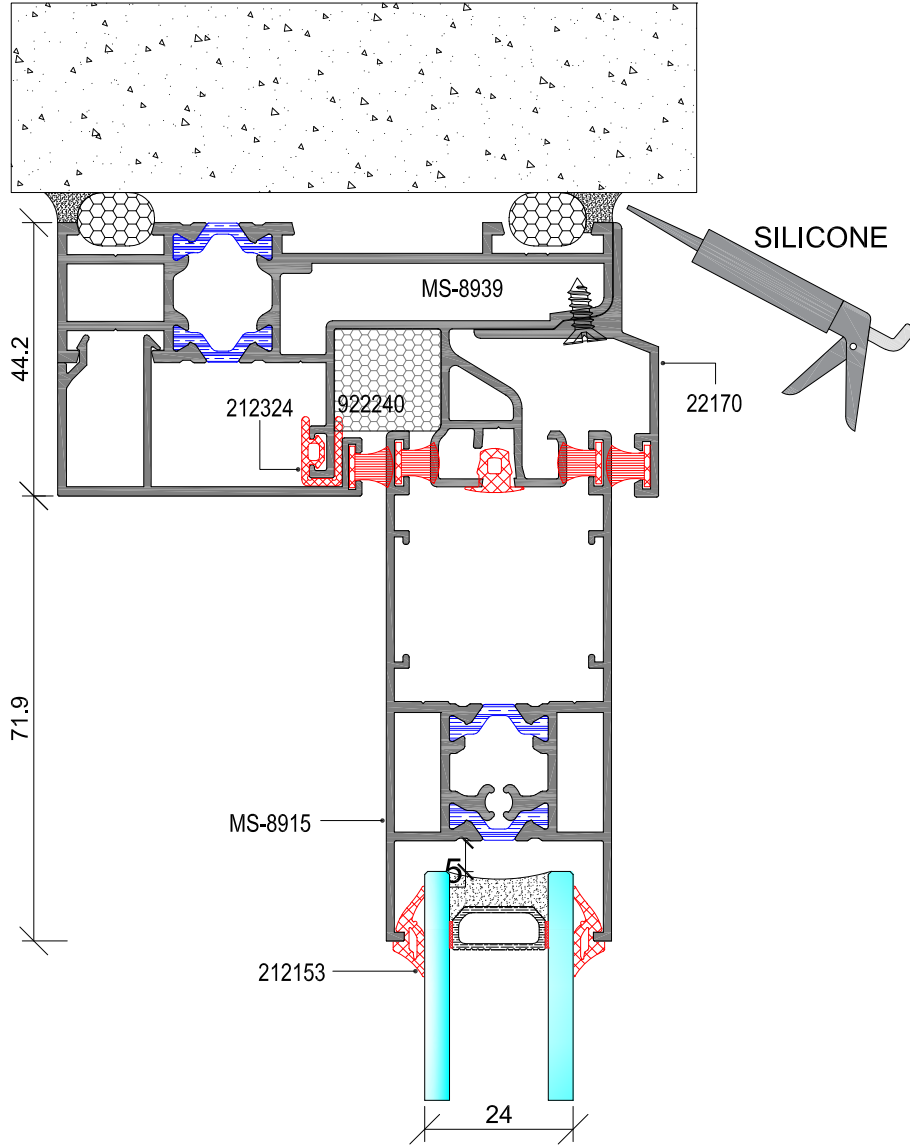
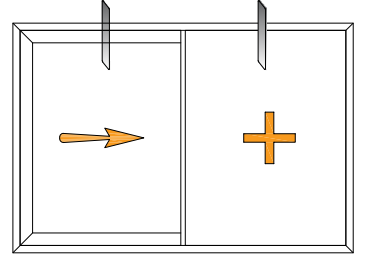
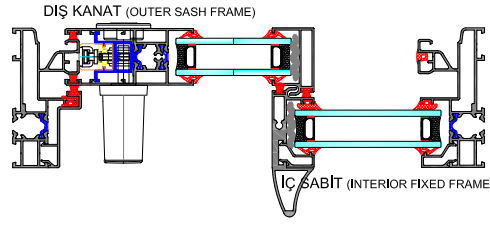


TEK KANAT HAREKETLİ SÜRME DETAYI MONORAIL SLIDING INSULATED DETAIL



MAESTRO 89 Insulated Sliding

TEK KANAT HAREKETLİ SÜRME DETAYI MONORAIL SLIDING INSULATED DETAIL



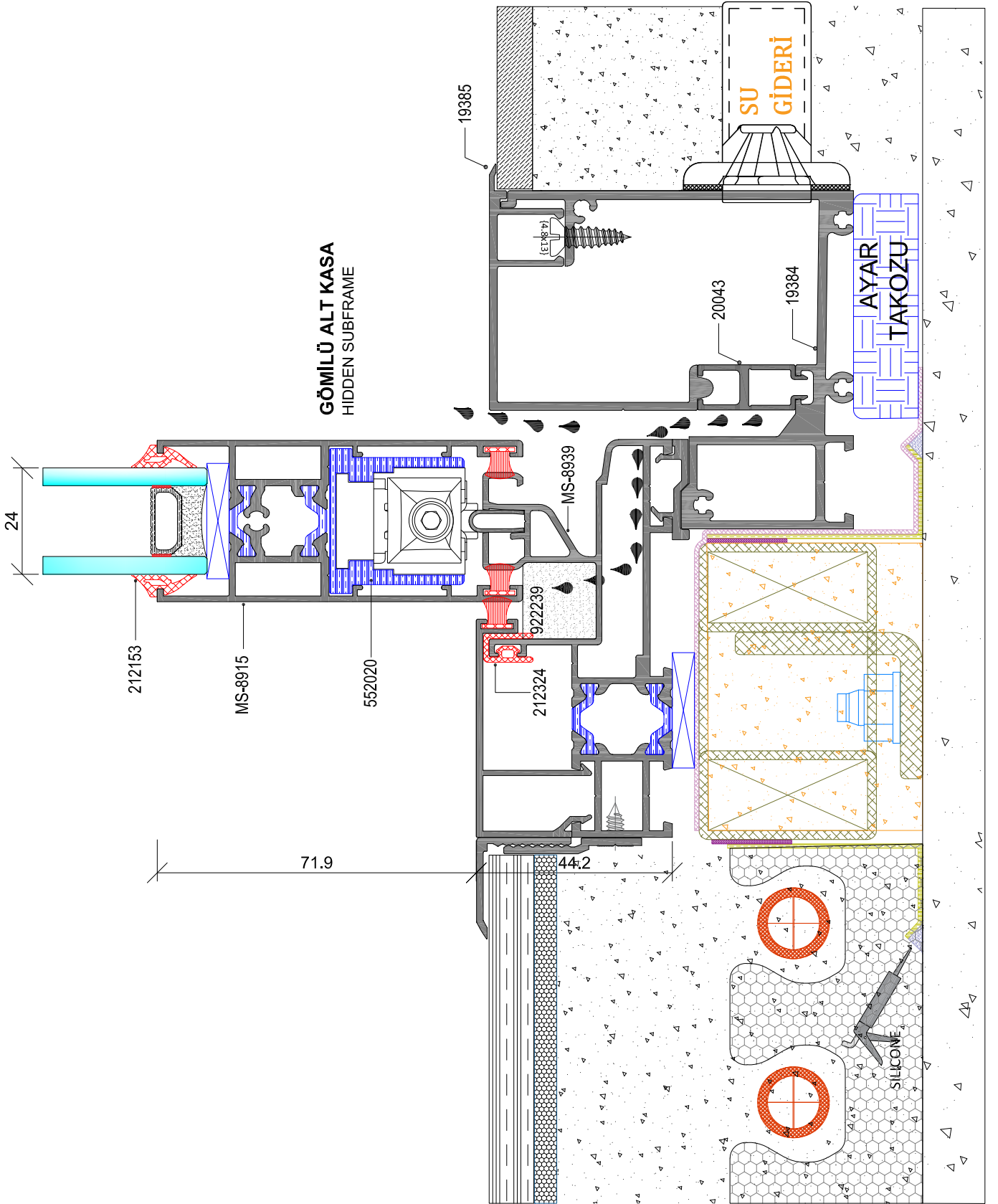
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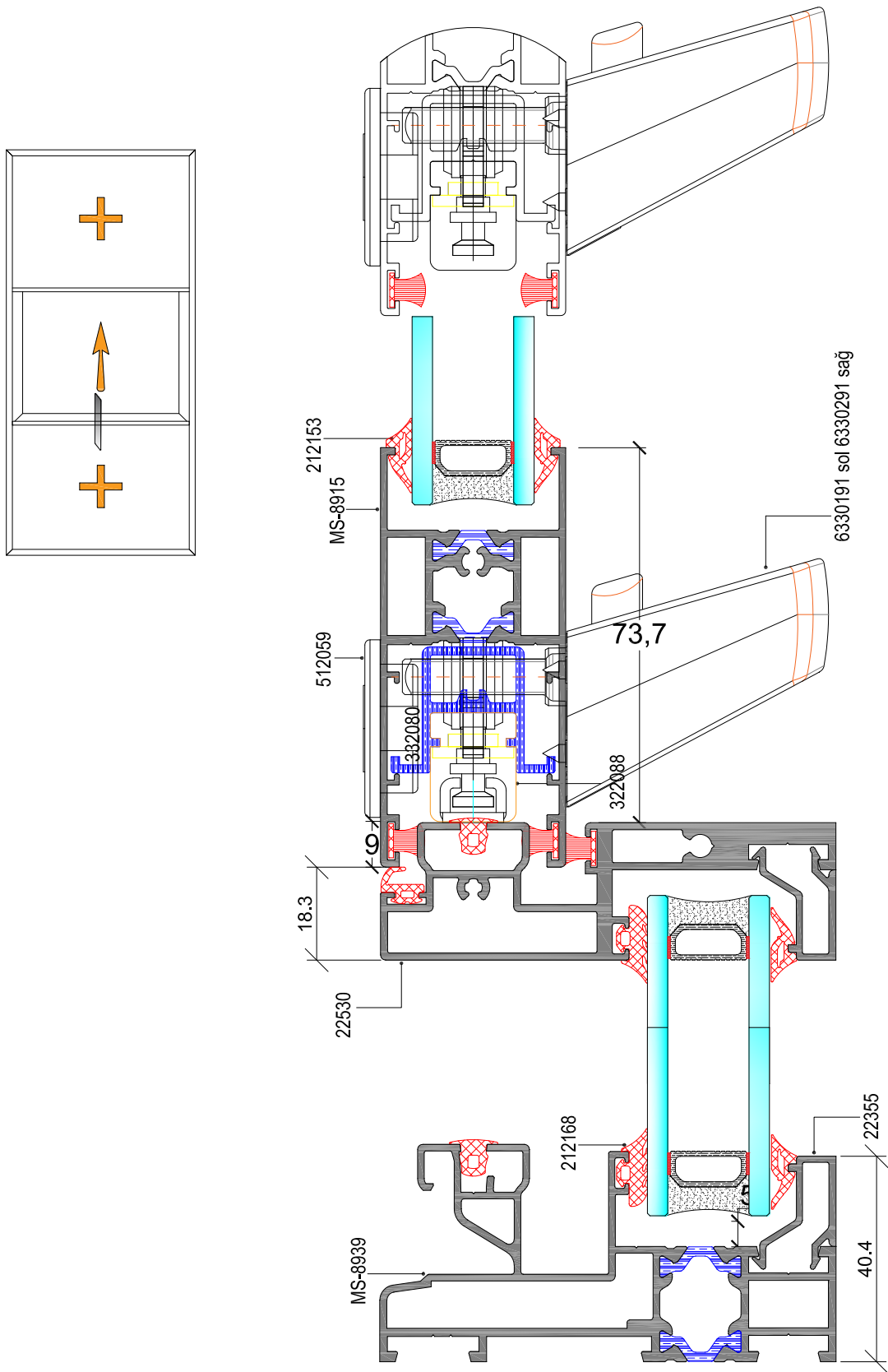
76

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MAESTRO 89 Insulated Sliding



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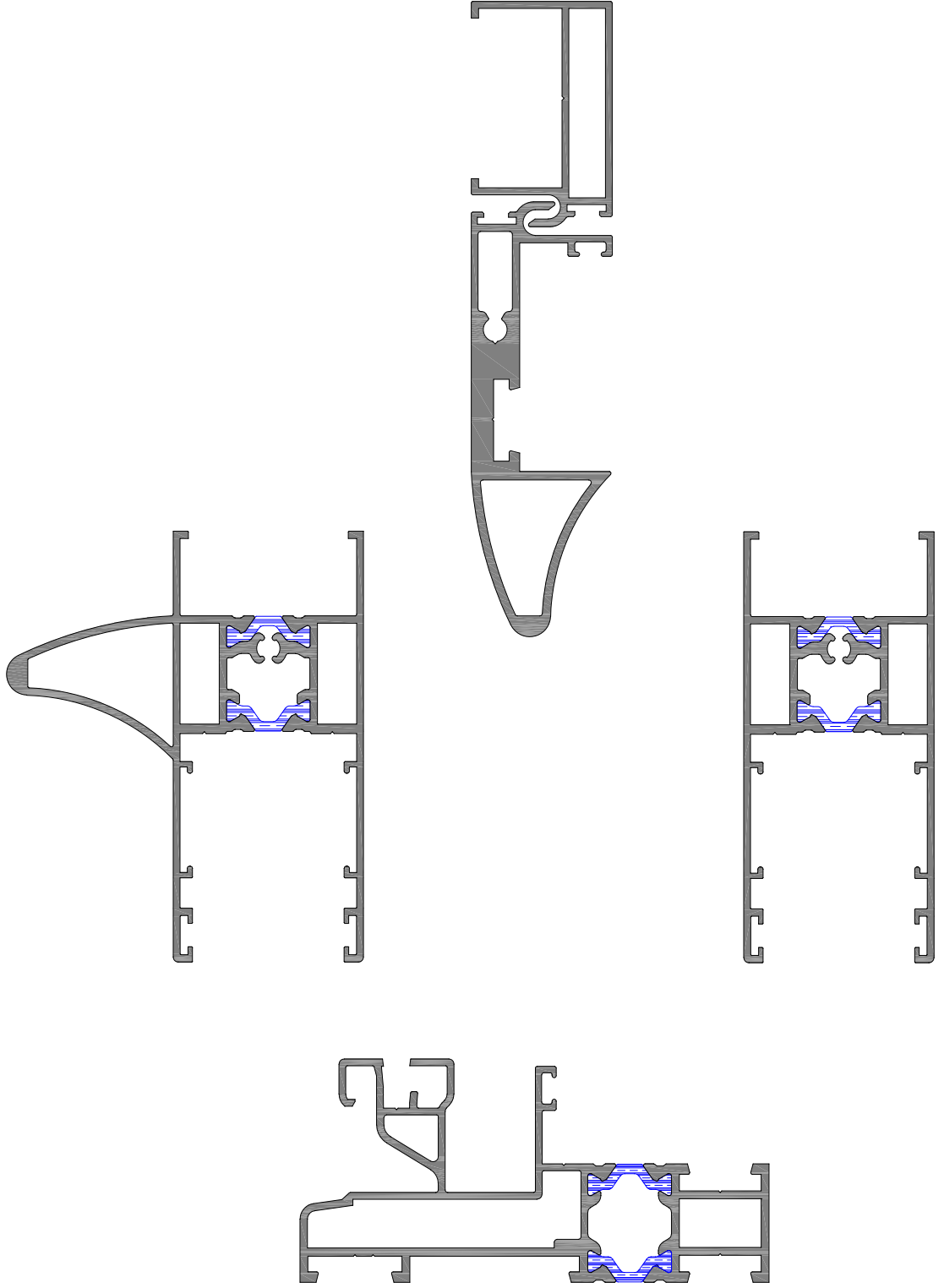
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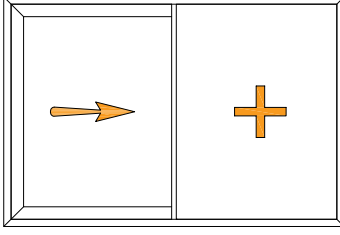
MAESTRO 89 Insulated Sliding

KESİM ÜRETİM ÖLÇÜLERİ

MANUFACTURING DIMENSIONS



MAESTRO 89 Insulated Sliding



TEK KANAT HAREKETLİ YALITIMLI SÜRME DETAYI MONORAIL SLIDING INSULATED DETAIL

PROFİLLER / PROFILES				
ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ CUTTING SIZE	KESİM AÇISI CUTTING ANGLE
2	MS-8939	DÜŞEY KASA PR. / VERTICAL FRAME PR.	H	45°/45°
2	MS-8939	YATAY KASA PR. / HORIZONTAL FRAME PR.	L	45°/45°
1	MS-8915	DÜŞEY KANAT PR. / VERTICAL SASH PR.	H - 67,4	45°/45°
1	MS-8934	DÜŞEY KANAT PR. / VERTICAL SASH PR.(SEÇENEK)	H - 67,4	45°/45°
2	MS-8915	YATAY KANAT PR./ HORIZONTAL SASH PR.	L/2 - 49,6	45°/90°
1	22228	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
1	22229	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
1	22353	(B)SABİT KENET PROFİLİ /CLAMP PROFILE	H - 45,4	90°/90°
1	22354	(B)SABİT KENET PROFİLİ /CLAMP PROFILE	H	90°/90°
1	22351	(B)DÜŞEY ADAPTÖR PR. / VERTICAL ADAPTER PR.	H-88,4	90°/90°
2	22352	(B)YATAY ADAPTÖR PR. / VERTICAL HORIZONTAL PR.	L/2 -36,1	90°/90°
2	22355	(B) DÜŞEY CAM ÇİTASI / VERT. GLAZING BEAD	H - 80,8	90°/90°
2	22355	(B) YATAY CAM ÇİTASI / HOR. GLAZING BEAD	L/2 -18,5	90°/90°
1	22170	DAMLALIK PR. / DRIP WHEATHER PR.	L	90°/90°

AKSESUARLAR / ACCESSORIES				
ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ CUTTING SIZE	KESİM AÇISI CUTTING ANGLE
4	111350	KÖŞE TAKOZU / CORNER CLEAT	-	
4	111345	KÖŞE TAKOZU / CORNER CLEAT	-	
4	111303	KÖŞE TAKOZU / CORNER CLEAT	-	
4	162001	KÖŞE ÇAVUŞU / CORNER ALIGNMENT	-	
1	372003	TAPA SETİ / PLUG KIT	-	
2	552020	RULMAN / PULLEY	-	
1	922237	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
1	922238	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
-	212168	DIŞ CAM FİTİLİ / OUTER GLAZING GASKET	1L +2H	
-	212251	RAY KAPATMA FİTİLİ / GASKET	1L + 1H	
-	212153	KAMA FİTİLİ / GASKET FOR GLAZING	3L + 6H	
-	212324	ADAPTÖR FİTİLİ / ADAPTÖR GASKET	1L + 1H	
-	212021	PERDELİ FIRÇA FİTİL / WEATHERSTRIP BRUSH	3L + 6H	
-	332036	ÇELİK RAY / STEEL RAIL	1L	
-	332080	PVC İSPANYOLET PR./ PVC ESPAGNOLETTE PR.	1H	90°/90°
2	322088	KANAT STOPER / STOPPER FOR SASH	-	
2	322094	TAKVİYELİ KANAT TAPA SETİ TAKIM.	-	

FERMOŞA

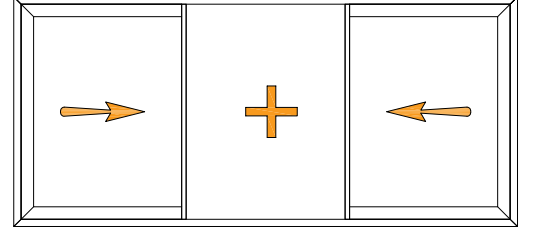
SYSTEM

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ORTA SABİT SAĞ SOL HAREKETLİ
MIDDLE FIXED RIGHT LEFT MOVABLE



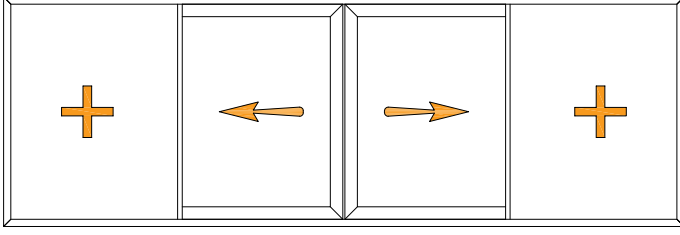
PROFİLLER / PROFILES

ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ KESİM AÇISI	
			CUTTING SIZE	CUTTING ANGLE
2	MS-8939	DÜŞEY KASA PR. / VERTICAL FRAME PR.	H	45°/45°
2	MS-8939	YATAY KASA PR. / HORIZONTAL FRAME PR.	L	45°/45°
2	MS-8915	DÜŞEY KANAT PR. / VERTICAL SASH PR.	H - 67,4	45°/45°
2	MS-8934	DÜŞEY KANAT PR. / VERTICAL SASH PR.(SEÇENEK)	H - 67,4	45°/45°
4	MS-8915	YATAY KANAT PR./ HORIZONTAL SASH PR.	L/3 - 49,6	45°/90°
2	22228	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
2	22229	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
2	22353	(B)SABİT KENET PROFİLİ /CLAMP PROFILE	H - 45,4	90°/90°
2	22354	(B)SABİT KENET PROFİLİ /CLAMP PROFILE	H	90°/90°
2	22351	(B)DÜŞEY ADAPTÖR PR. / VERTICAL ADAPTER PR.	H-88,4	90°/90°
4	22352	(B)YATAY ADAPTÖR PR. / VERTICAL HORIZONTAL PR.	L/3 -36,1	90°/90°
2	22355	(B) DÜŞEY CAM ÇİTASI / VERT. GLAZING BEAD	H - 80,8	90°/90°
2	22355	(B) YATAY CAM ÇİTASI / HOR. GLAZING BEAD	L/3-18,5	90°/90°
1	22170	DAMLALIK PR. / DRIP WHEATHER PR.	L	90°/90°

AKSESUARLAR / ACCESSORIES

ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ KESİM AÇISI	
			CUTTING SIZE	CUTTING ANGLE
4	111350	KÖŞE TAKOZU / CORNER CLEAT	-	
4	111345	KÖŞE TAKOZU / CORNER CLEAT	-	
8	111303	KÖŞE TAKOZU / CORNER CLEAT	-	
8	162001	KÖŞE ÇAVUŞU / CORNER ALIGNMENT	-	
1	372002	TAPA SETİ / PLUG KIT	-	
4	552020	RULMAN / PULLEY	-	
2	922237	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
2	922238	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
-	212168	DIŞ CAM FİTİLİ / OUTER GLAZING GASKET	1L +2H	
-	212251	RAY KAPATMA FİTİLİ / GASKET	1L +2H	
-	212153	KAMA FİTİLİ / GASKET FOR GLAZING	3L + 10H	
-	212324	ADAPTÖR FİTİLİ / ADAPTÖR GASKET	1L +2H	
-	212021	PERDELİ FIRÇA FİTİL / WEATHERSTRIP BRUSH	4L + 8H	
-	332036	ÇELİK RAY / STEEL RAIL	1L	
-	332080	PVC İSPANYOLET PR./ PVC ESPAGNOLETTE PR.	2H	90°/90°
2	322088	KANAT STOPER / STOPPER FOR SASH	-	
2	322094	TAKVİYELİ KANAT TAPA SETİ TAKIM.	-	

MAESTRO 89 Insulated Sliding



ORTA ÇİFT KANAT HAREKETLİ
MEDIUM DOUBLE WINGS MOVING

PROFİLLER / PROFILES

ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ KESİM AÇISI	
			CUTTING SIZE	CUTTING ANGLE
2	MS-8939	DÜŞEY KASA PR. / VERTICAL FRAME PR.	H	45°/45°
2	MS-8939	YATAY KASA PR. / HORIZONTAL FRAME PR.	L	45°/45°
2	MS-8915	DÜŞEY KANAT PR. / VERTICAL SASH PR.	H - 67,4	45°/45°
2	MS-8934	DÜŞEY KANAT PR. / VERTICAL SASH PR.(SEÇENEK)	H - 67,4	45°/45°
4	MS-8915	YATAY KANAT PR./ HORIZONTAL SASH PR.	L/4 - 23,8	45°/90°
2	22228	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
2	22229	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
2	22353	(B)SABİT KENET PROFİLİ /CLAMP PROFILE	H - 45,4	90°/90°
2	22354	(B)SABİT KENET PROFİLİ /CLAMP PROFILE	H	90°/90°
4	22352	(B)YATAY ADAPTÖR PR. / VERTICAL HORIZONTAL PR.	L/2 -27,1	90°/90°
2	22355	(B) DÜŞEY CAM ÇİTASI / VERT. GLAZING BEAD	H - 80,8	90°/90°
2	22355	(B) YATAY CAM ÇİTASI / HOR. GLAZING BEAD	L/4-18,5	90°/90°
1	22170	DAMLALIK PR. / DRIP WHEATHER PR.	L	90°/90°

AKSESUARLAR / ACCESSORIES

ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ KESİM AÇISI	
			CUTTING SIZE	CUTTING ANGLE
4	111350	KÖŞE TAKOZU / CORNER CLEAT	-	
4	111345	KÖŞE TAKOZU / CORNER CLEAT	-	
8	111303	KÖŞE TAKOZU / CORNER CLEAT	-	
8	162001	KÖŞE ÇAVUŞU / CORNER ALIGNMENT	-	
1	372002	TAPA SETİ / PLUG KIT	-	
4	552020	RULMAN / PULLEY	-	
2	922237	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
2	922238	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
-	212168	DIŞ CAM FİTİLİ / OUTER GLAZING GASKET	1L +2H	
-	212251	RAY KAPATMA FİTİLİ / GASKET	1L +2H	
-	212153	KAMA FİTİLİ / GASKET FOR GLAZING	3L + 10H	
-	212324	ADAPTÖR FİTİLİ / ADAPTÖR GASKET	1L +2H	
-	212021	PERDELİ FIRÇA FİTİL / WEATHERSTRIP BRUSH	4L + 8H	
-	332036	ÇELİK RAY / STEEL RAIL	1L	
-	332080	PVC İSPANYOLET PR./ PVC ESPAGNOLETTE PR.	2H	90°/90°
2	322088	KANAT STOPER / STOPPER FOR SASH	-	
2	322094	TAKVİYELİ KANAT TAPA SETİ TAKIM.	-	

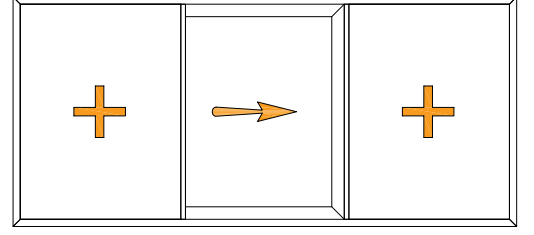
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SYSTEM

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ORTA HAREKETLİ SAĞ SOL SABİT
MEDIUM MOVABLE RIGHT LEFT FIXED



PROFİLLER / PROFILES

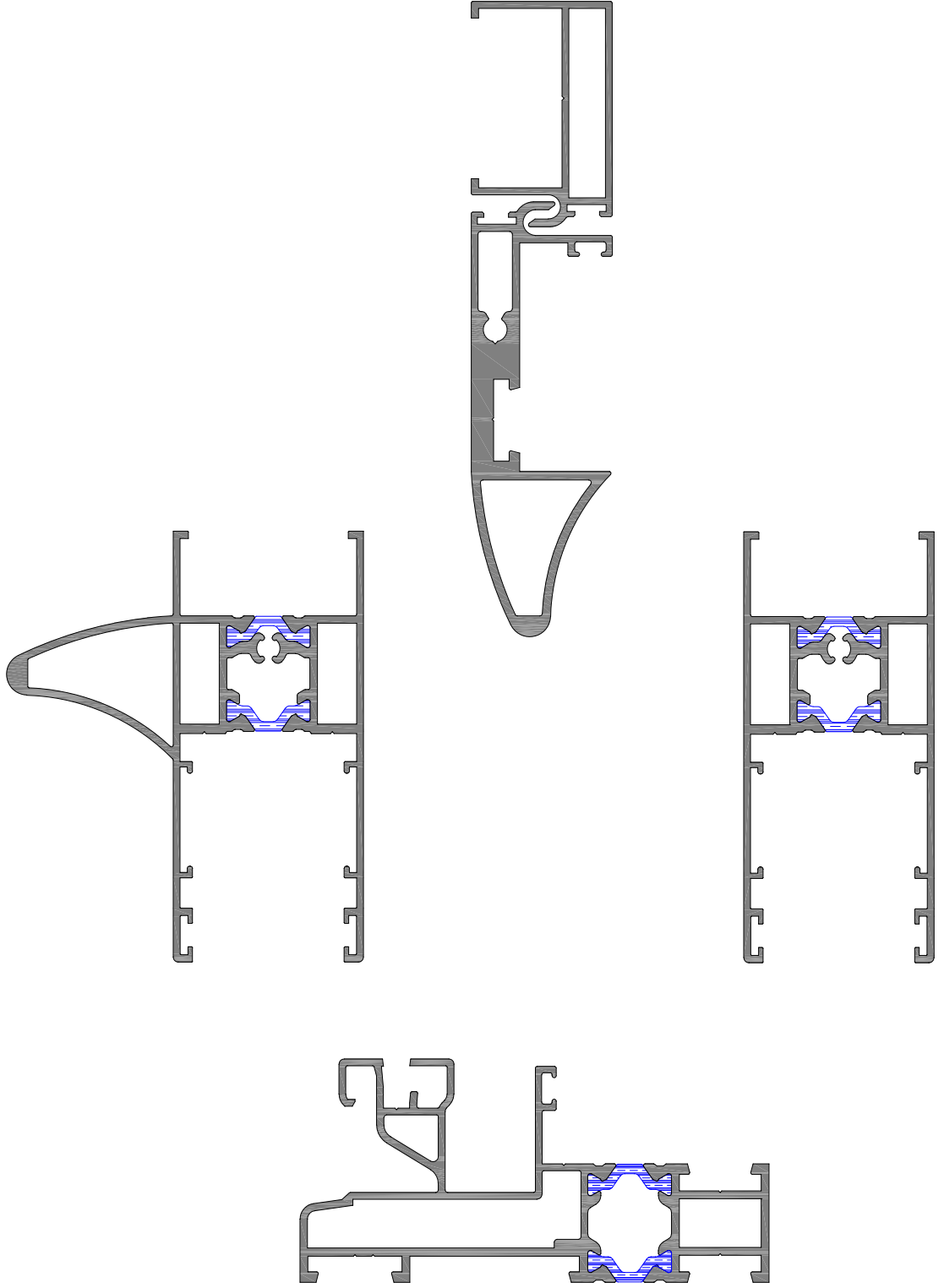
ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ KESİM AÇISI	
			CUTTING SIZE	CUTTING ANGLE
2	MS-8939	DÜŞEY KASA PR. / VERTICAL FRAME PR.	H	45°/45°
2	MS-8939	YATAY KASA PR. / HORIZONTAL FRAME PR.	L	45°/45°
2	MS-8915	DÜŞEY KANAT PR. / VERTICAL SASH PR.	H - 67,4	45°/45°
2	MS-8934	DÜŞEY KANAT PR. / VERTICAL SASH PR.(SEÇENEK)	H - 67,4	45°/45°
4	MS-8915	YATAY KANAT PR./ HORIZONTAL SASH PR.	L/3 - 49,6	45°/90°
2	22228	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
2	22229	(A)KENET PROFİLİ /CLAMP PROFILE	H - 89,4	90°/90°
2	22353	(B)SABİT KENET PROFİLİ /CLAMP PROFILE	H - 45,4	90°/90°
2	22354	(B)SABİT KENET PROFİLİ /CLAMP PROFILE	H	90°/90°
2	22351	(B)DÜŞEY ADAPTÖR PR. / VERTICAL ADAPTER PR.	H-88,4	90°/90°
4	22352	(B)YATAY ADAPTÖR PR. / VERTICAL HORIZONTAL PR.	L/3 -36,1	90°/90°
2	22355	(B) DÜŞEY CAM ÇİTASI / VERT. GLAZING BEAD	H - 80,8	90°/90°
2	22355	(B) YATAY CAM ÇİTASI / HOR. GLAZING BEAD	L/3-18,5	90°/90°
1	22170	DAMLALIK PR. / DRIP WHEATHER PR.	L	90°/90°

AKSESUARLAR / ACCESSORIES

ADET UNIT	KOD CODE	TANIM DESCRIPTION	KESİM ÖLÇÜSÜ KESİM AÇISI	
			CUTTING SIZE	CUTTING ANGLE
4	111350	KÖŞE TAKOZU / CORNER CLEAT	-	
4	111345	KÖŞE TAKOZU / CORNER CLEAT	-	
8	111303	KÖŞE TAKOZU / CORNER CLEAT	-	
8	162001	KÖŞE ÇAVUŞU / CORNER ALIGNMENT	-	
1	372002	TAPA SETİ / PLUG KIT	-	
4	552020	RULMAN / PULLEY	-	
2	922237	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
2	922238	SU VE HAVA KESİCİ ÜST / WATER AND AIR BREAKER	-	
-	212168	DIŞ CAM FİTİLİ / OUTER GLAZING GASKET	1L +2H	
-	212251	RAY KAPATMA FİTİLİ / GASKET	1L +2H	
-	212153	KAMA FİTİLİ / GASKET FOR GLAZING	3L + 10H	
-	212324	ADAPTÖR FİTİLİ / ADAPTÖR GASKET	1L +2H	
-	212021	PERDELİ FIRÇA FİTİL / WEATHERSTRIP BRUSH	4L + 8H	
-	332036	ÇELİK RAY / STEEL RAIL	1L	
-	332080	PVC İSPANYOLET PR./ PVC ESPAGNOLETTE PR.	2H	90°/90°
2	322088	KANAT STOPER / STOPPER FOR SASH	-	
2	322094	TAKVİYELİ KANAT TAPA SETİ TAKIM.	-	

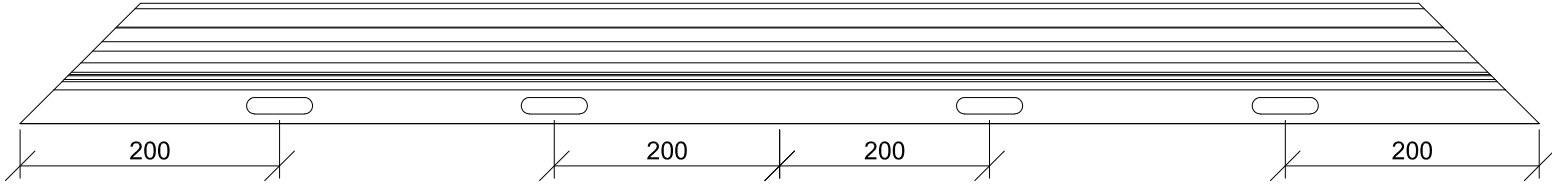
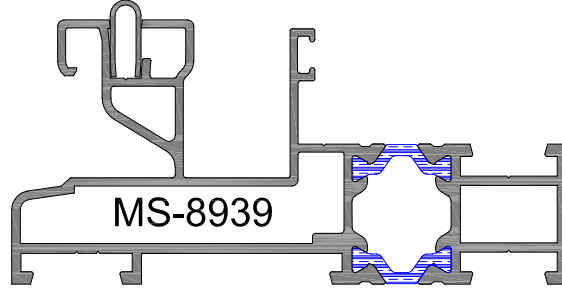
İMİALAT ÜRETİM DETAYLARI

PRODUCTION APPLICATION DETAILS



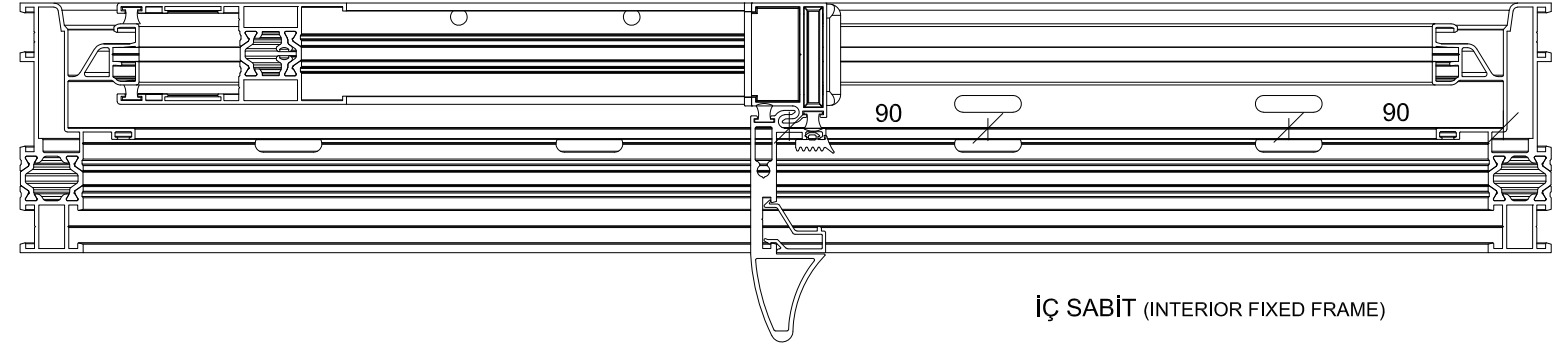
MAESTRO 89 Insulated Sliding

KASA TAHLİYE DETAYI
WATER DRAINAGE CHANNEL DETAIL

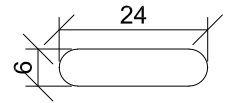


DIŞ GÖRÜNÜM (EXTERNAL VIEW)

DIŞ KANAT (OUTER SASH FRAME)



İÇ SABİT (INTERIOR FIXED FRAME)



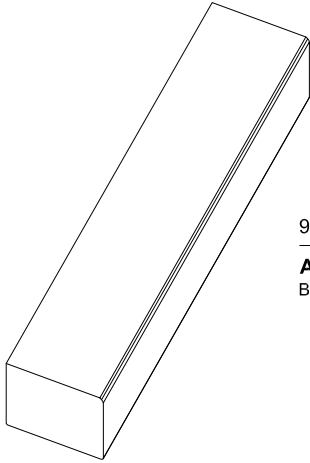
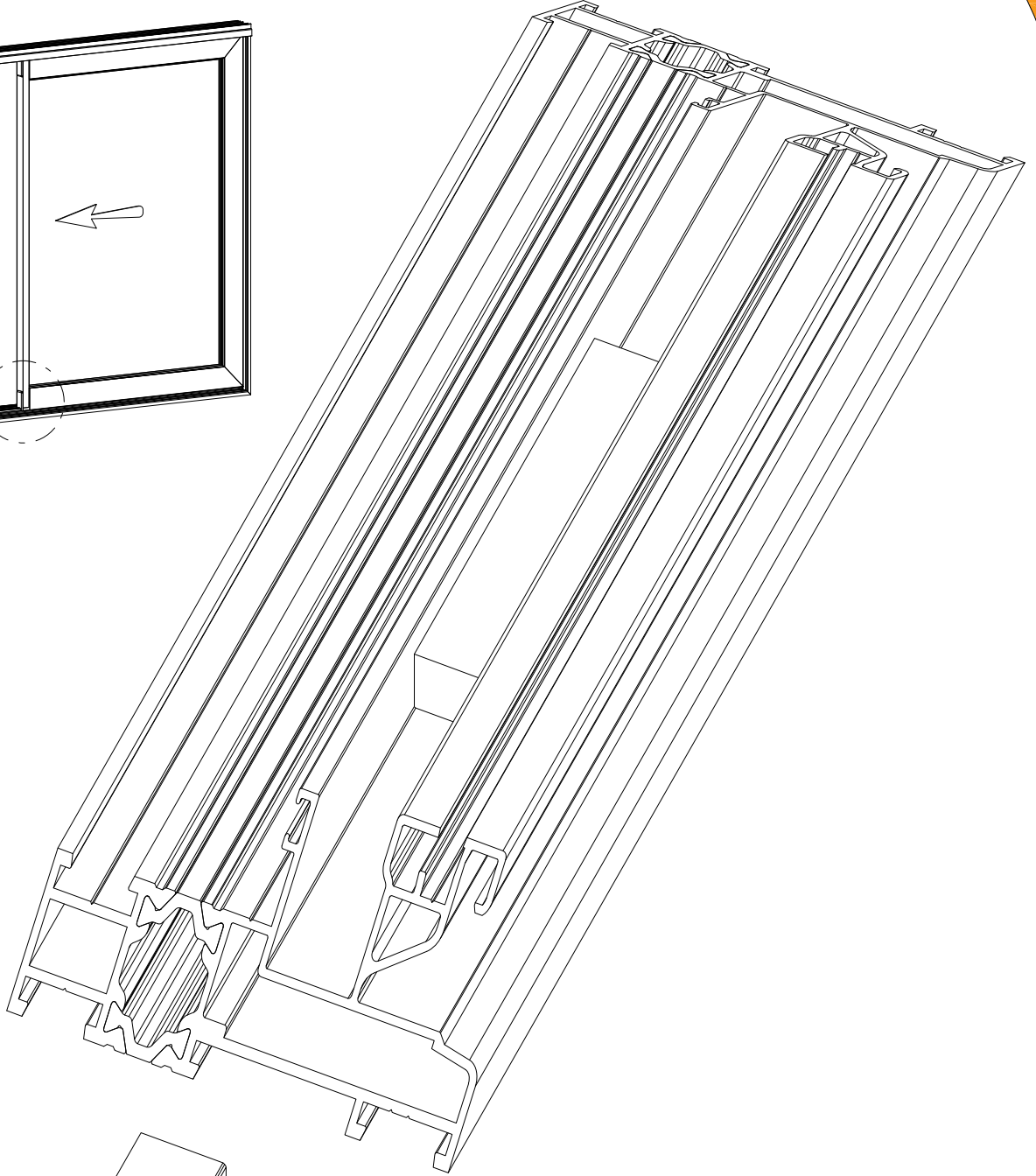
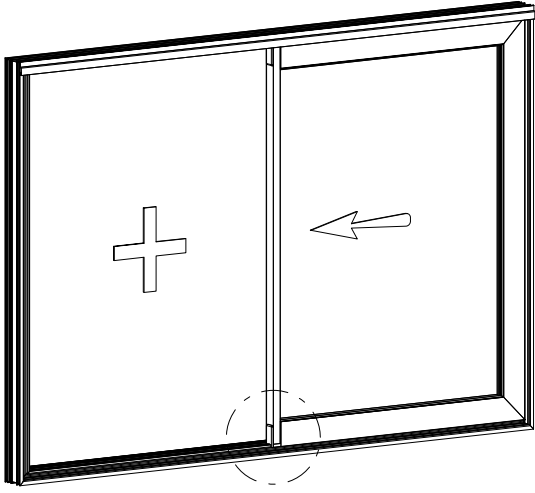
TAHLİYE DELİĞİNİN ÖLÇÜLERİ
DRAINAGE HOLE DIMENSIONS

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SYSTEM

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922240 TEK RAYLI İÇİN

ALT SU VE HAVA KESİCİ SÜNGER
BOTTOM WATER AND AIR BLOCKER FOAM

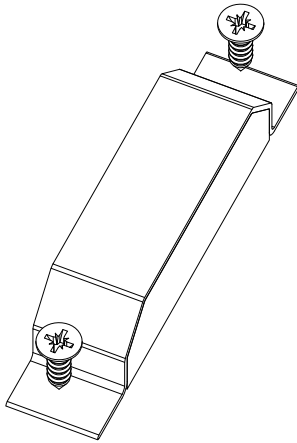
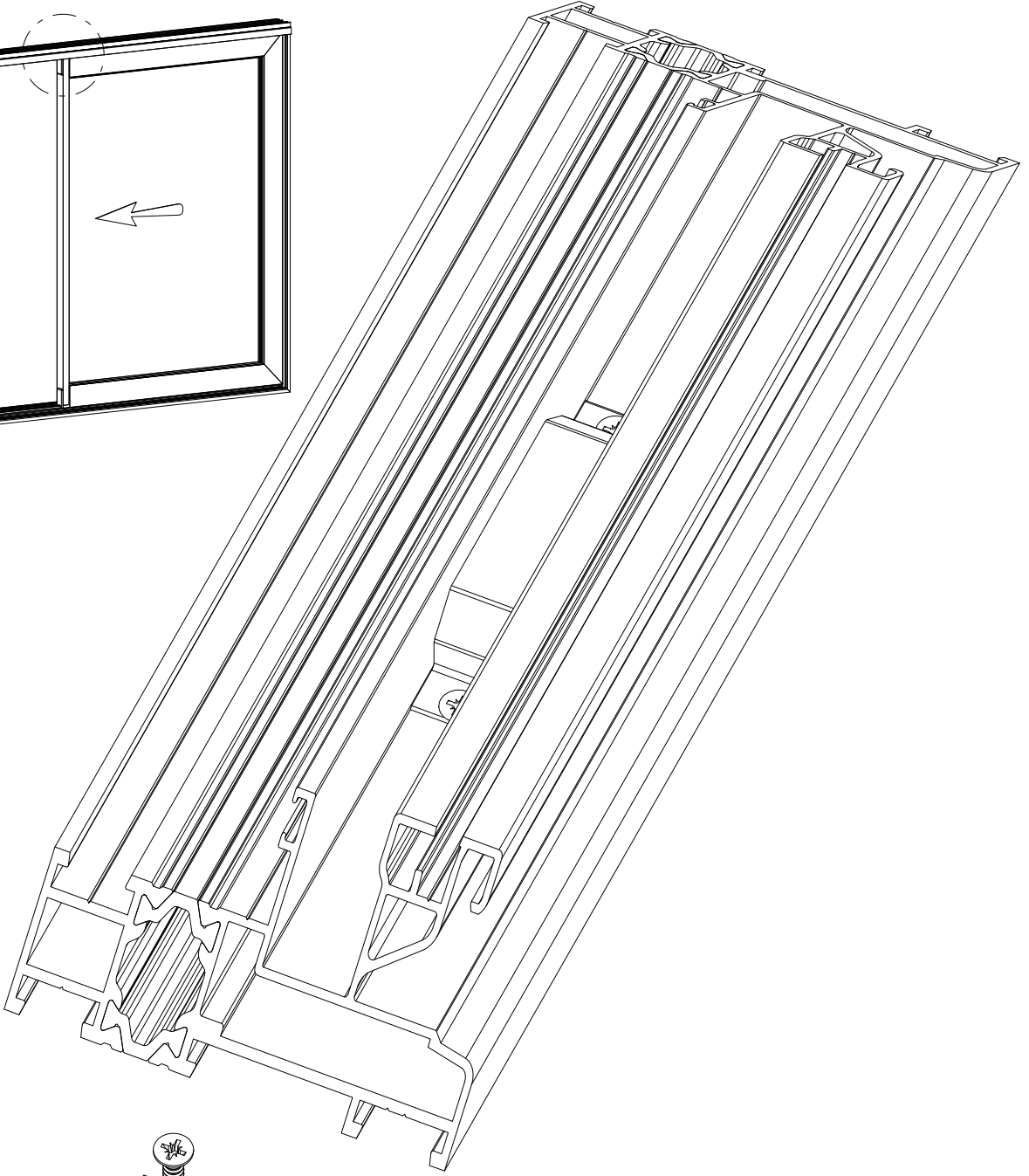
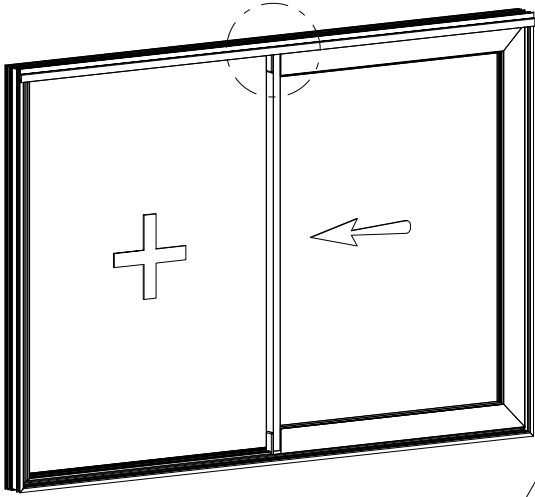
FERMO SA

SYSTEM

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86

MAESTRO 89 Insulated Sliding



922239 TEK RAYLI İÇİN

ÜST HAVA KESİCİ SÜNGER
TOP AIR BLOCKER FOAM

87

FERMO SA
SYSTEM

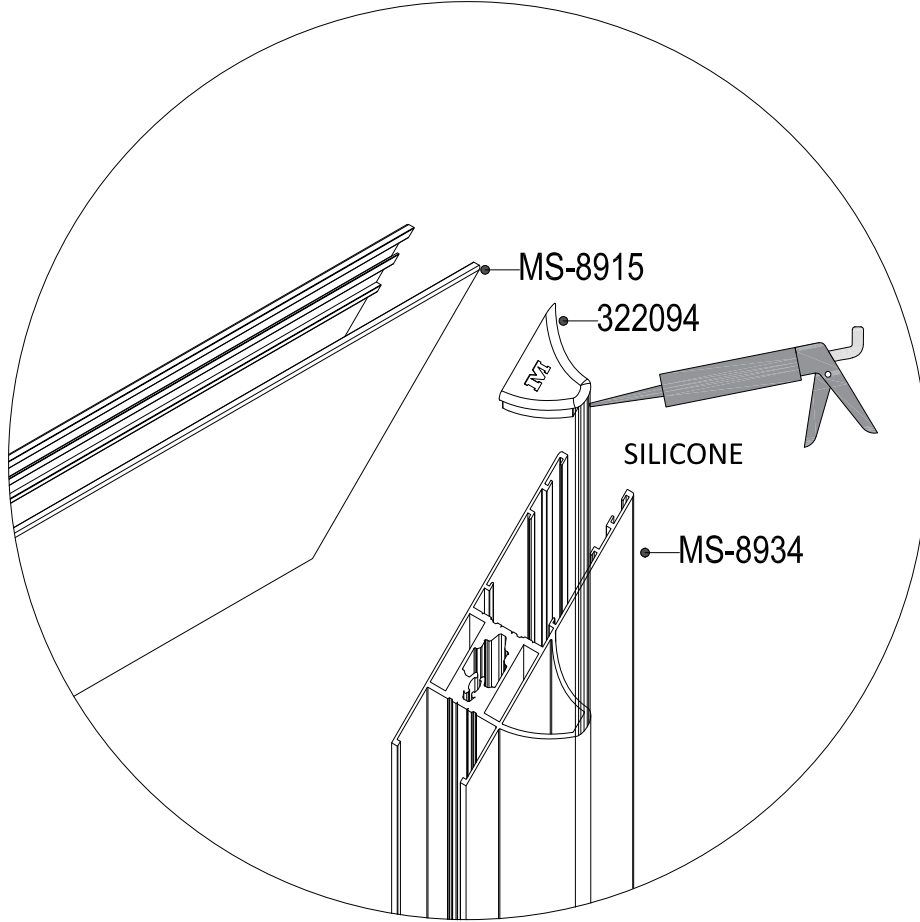
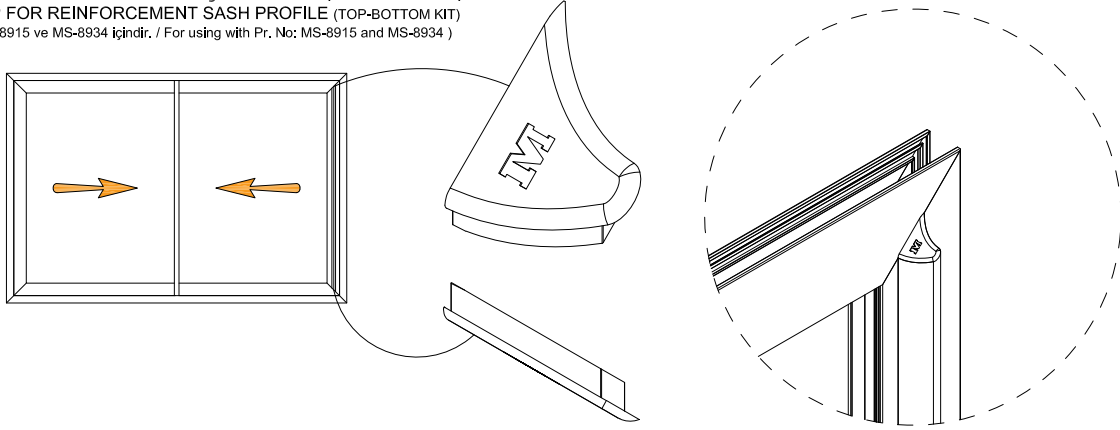
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MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS

322094

TAKVİYELİ KANAT PR. İÇİN KAPAK (ÜST-ALT TAKIM)
CAP FOR REINFORCEMENT SASH PROFILE (TOP-BOTTOM KIT)
(MS-8915 ve MS-8934 içindir. / For using with Pr. No: MS-8915 and MS-8934)

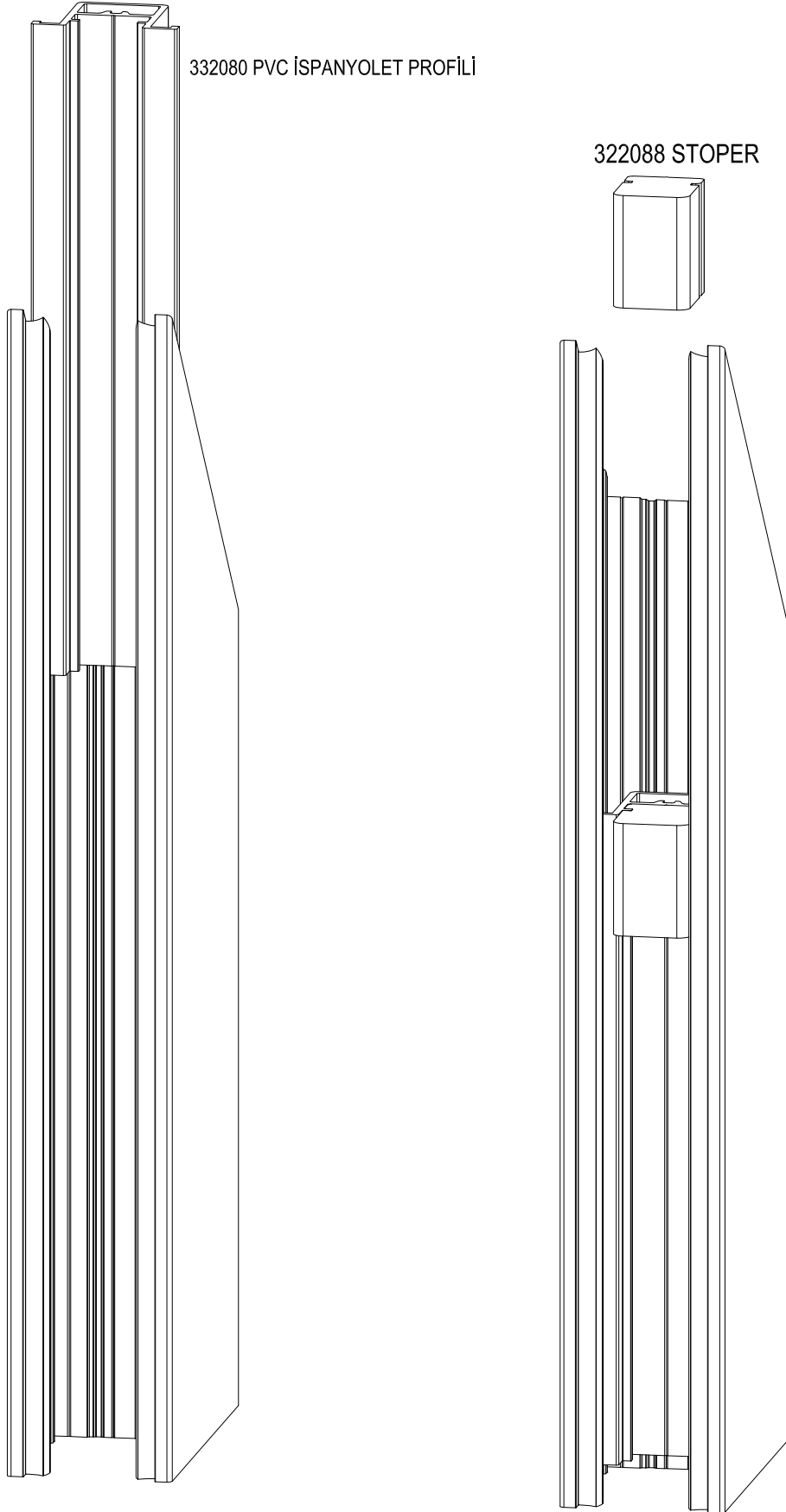


FERMO
SYSTEM

88

MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI MANUFACTURING APPLICATION DETAILS



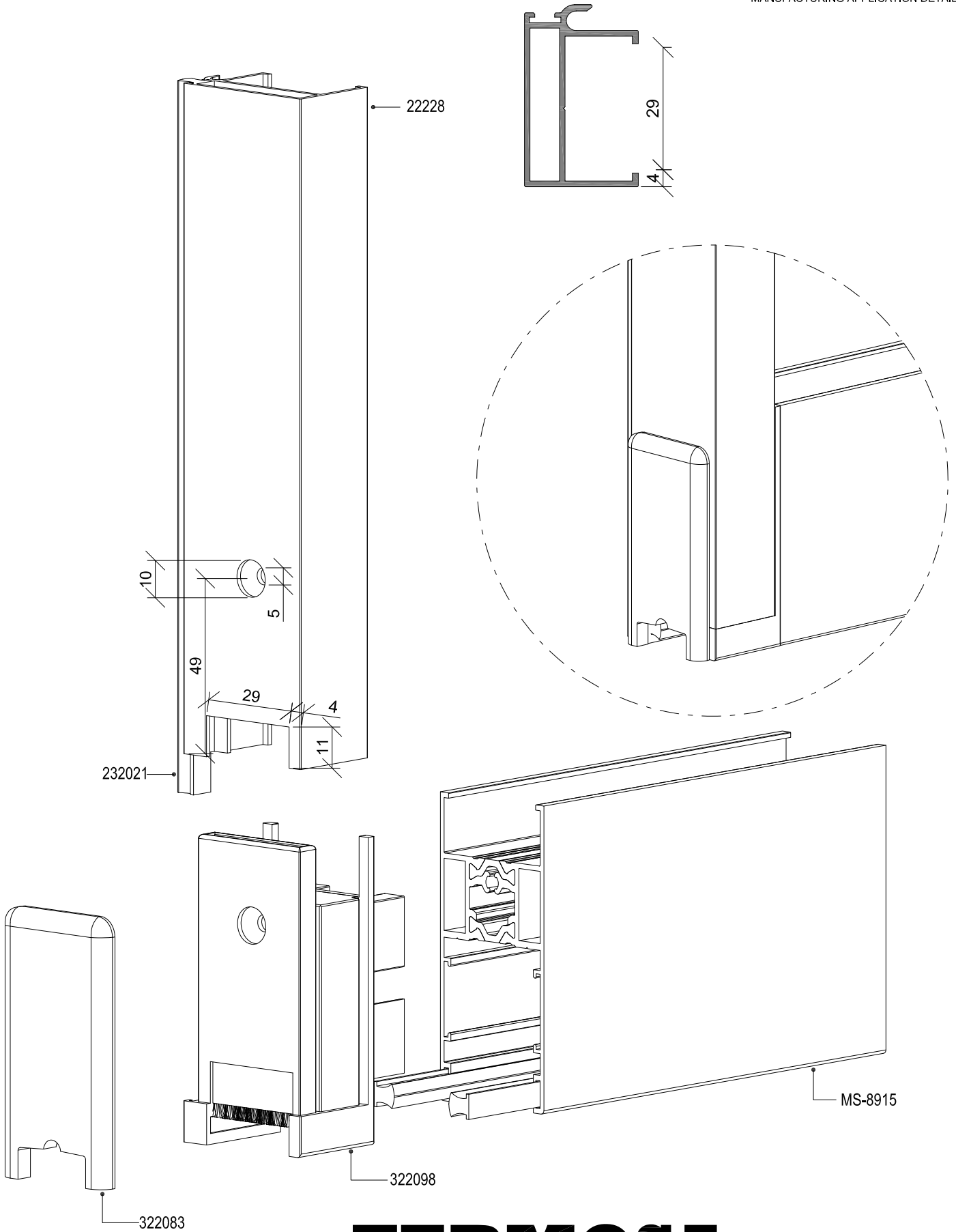
89

FERMO
SYSTEM

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MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS



FERMO SA

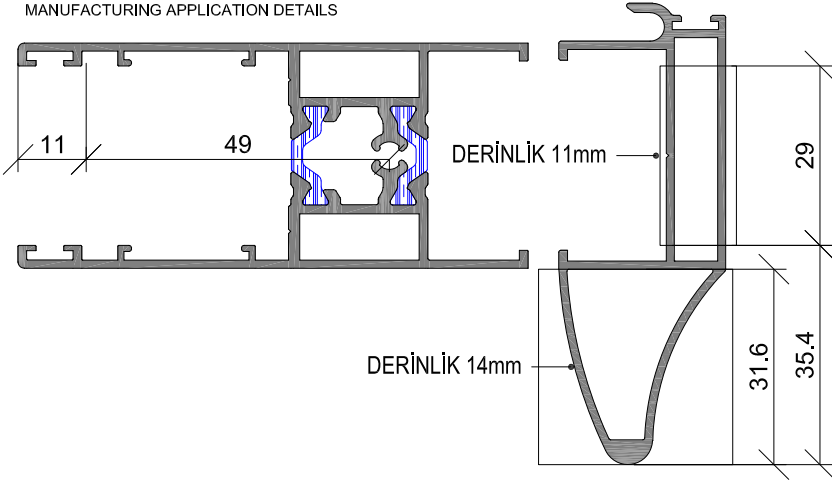
SYSTEM

90

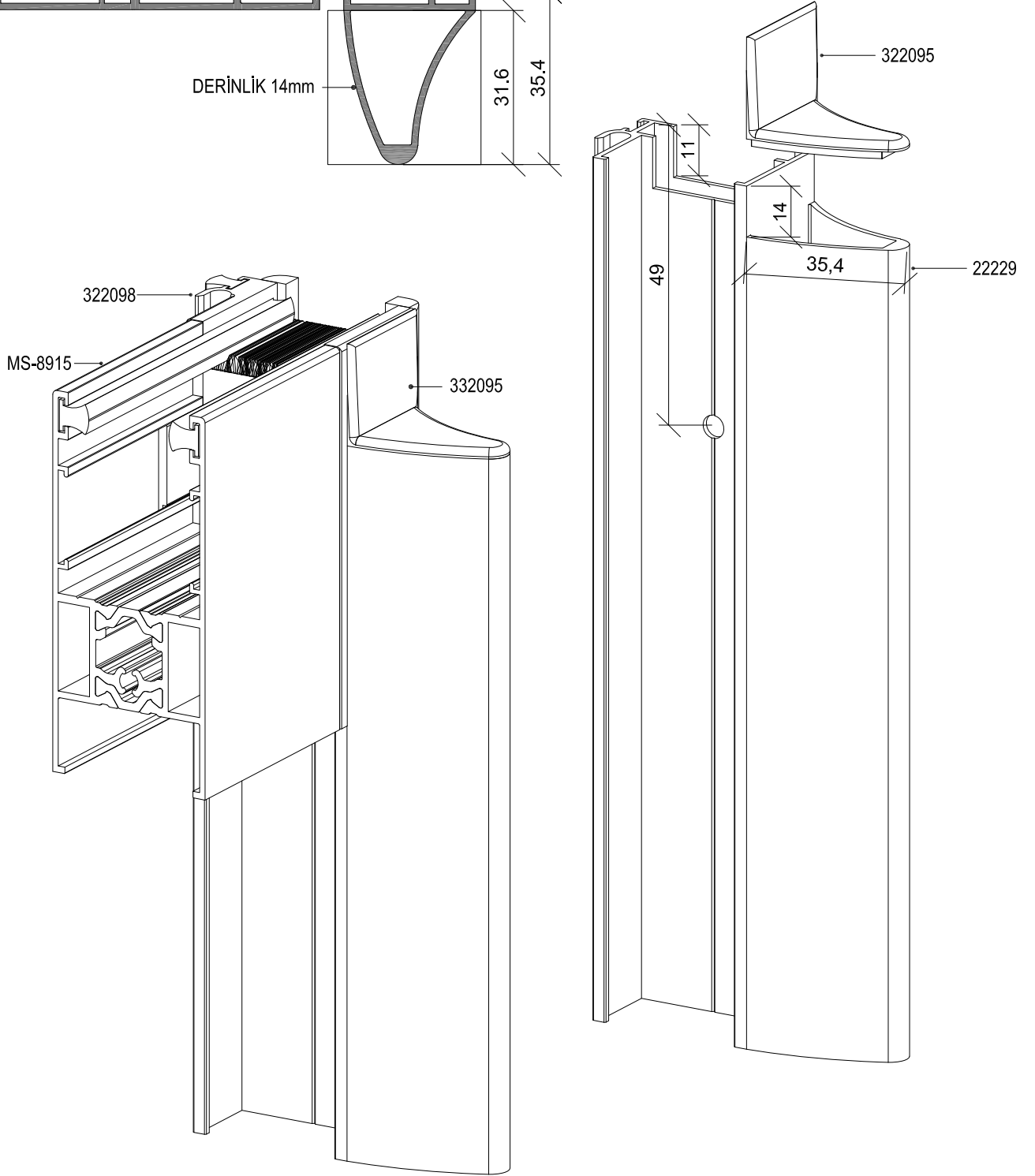
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MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI MANUFACTURING APPLICATION DETAILS

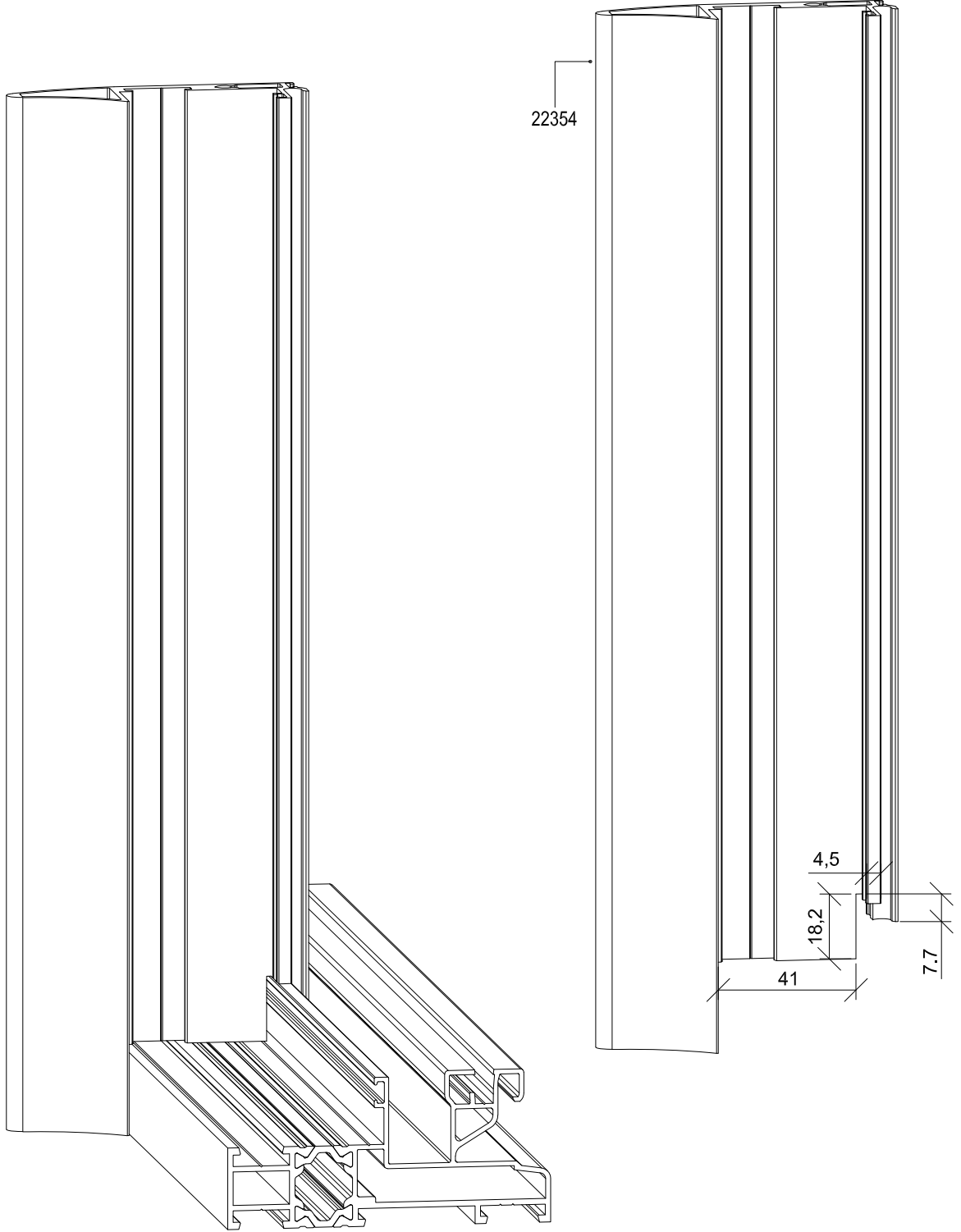


İMALAT UYGULAMA DETAYLARI MANUFACTURING APPLICATION DETAILS



MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS



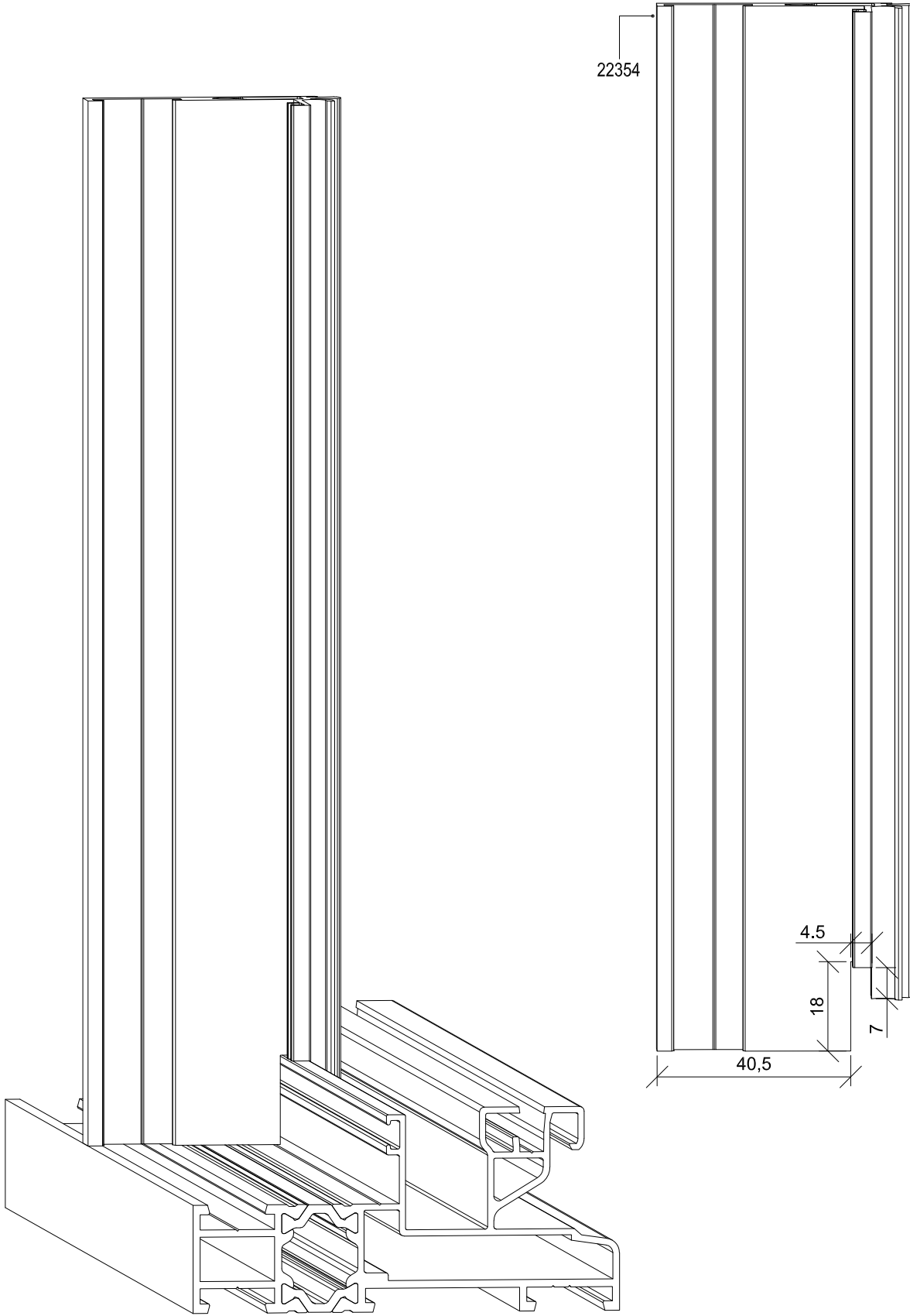
FERMO SA
SYSTEM

92

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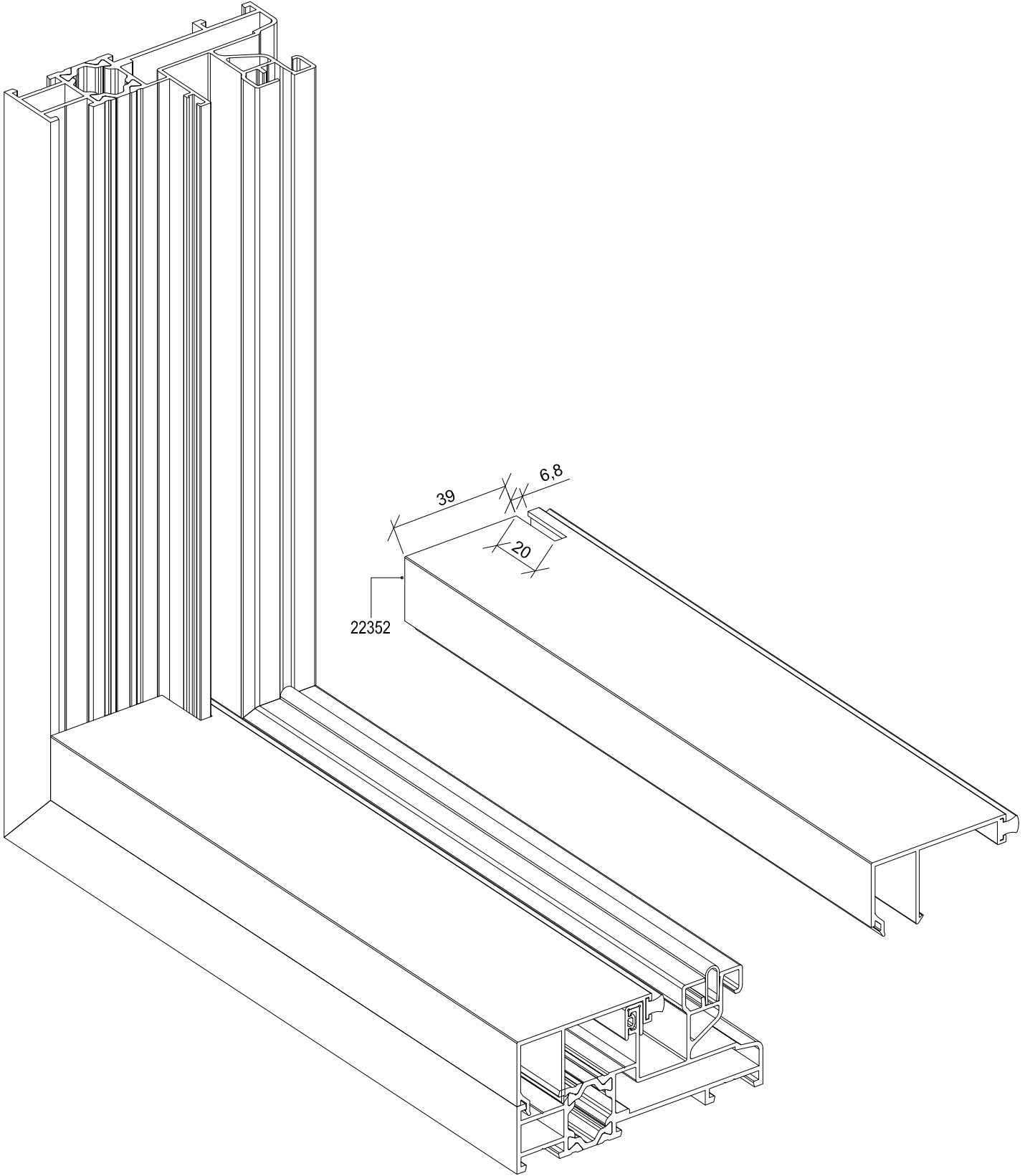
MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI MANUFACTURING APPLICATION DETAILS



MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS



FERMO
SYSTEM

94

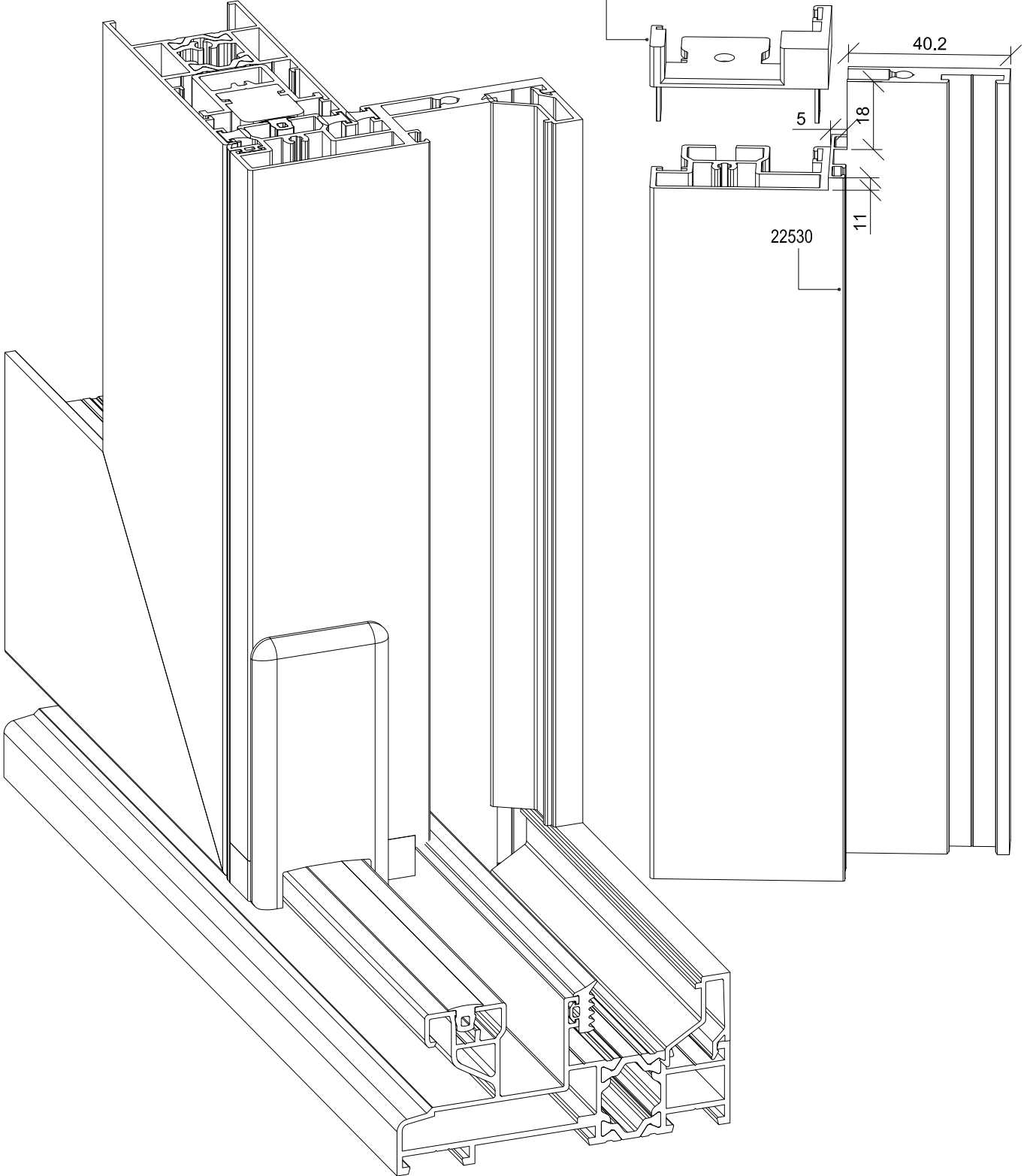
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MAESTRO 89 Insulated Sliding

İMALAT UYGULAMA DETAYLARI
MANUFACTURING APPLICATION DETAILS

SAYFA 78 DETAY /PAGE 78 DETAIL

322099 TAPA SETİ TAKIM



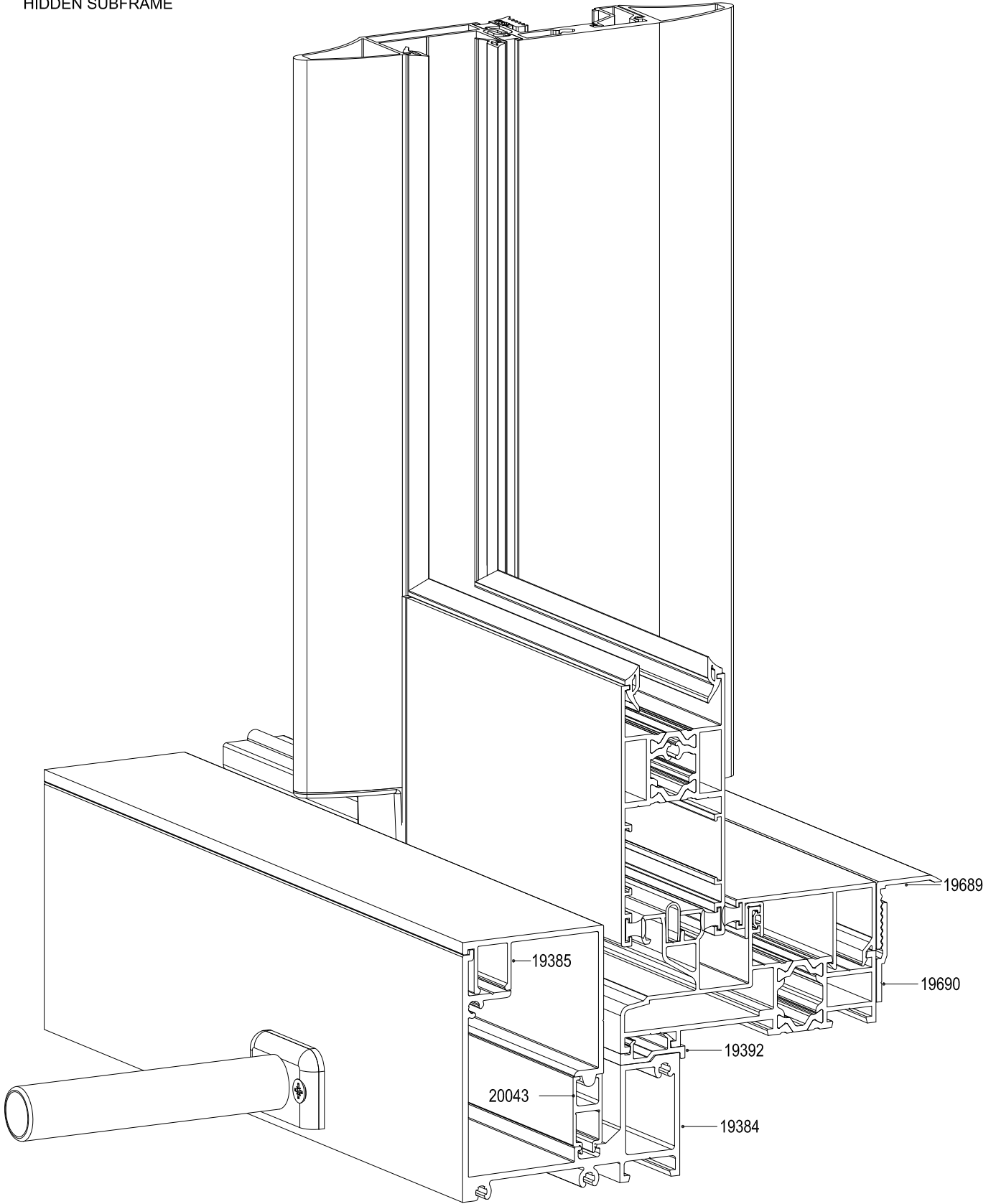
95

FERMO
SYSTEM

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MAESTRO 89 Insulated Sliding

GÖMİLÜ ALT KASA
HIDDEN SUBFRAME



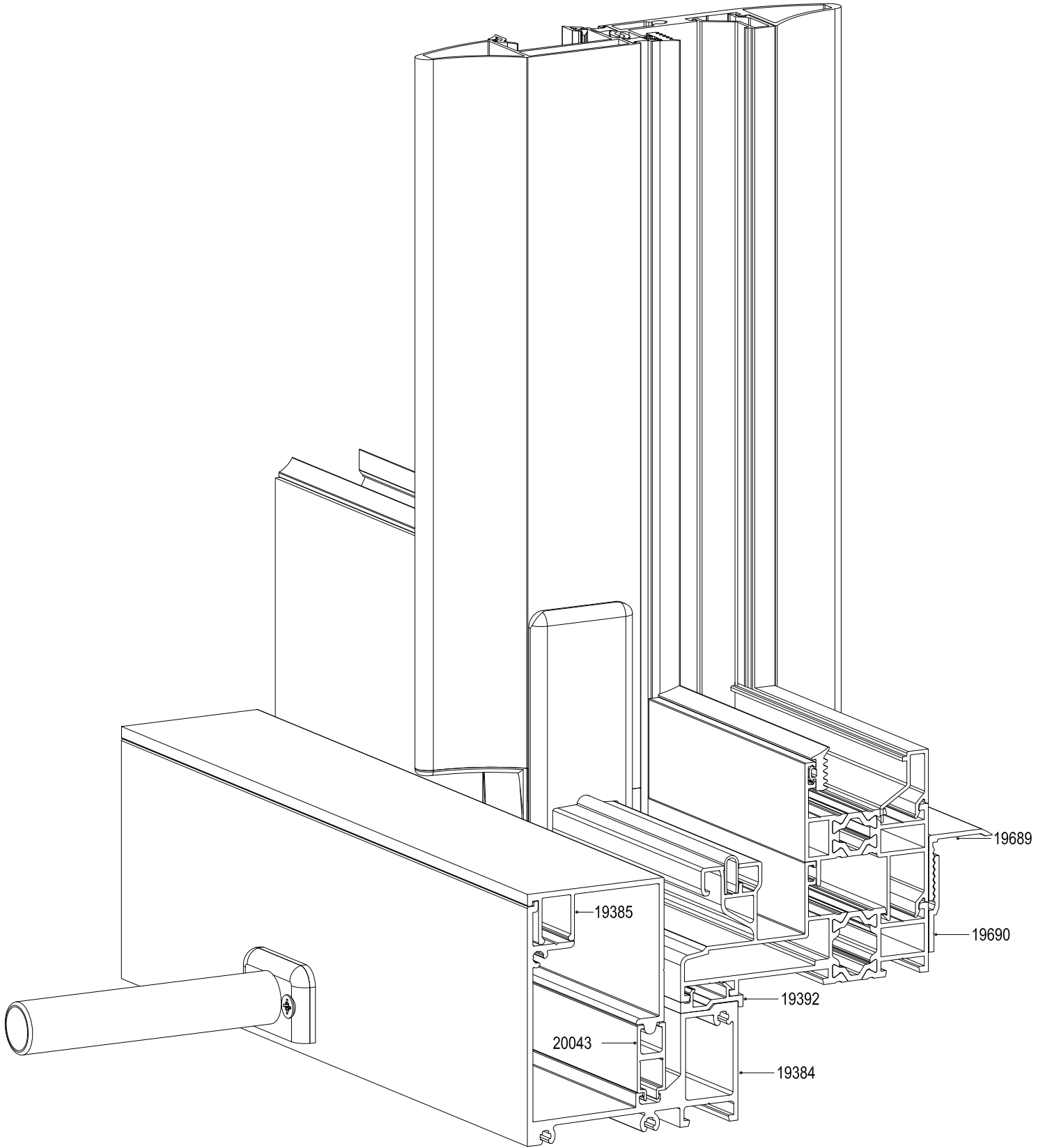
FERMO
SYSTEM

96

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MAESTRO 89 Insulated Sliding

GÖMLÜ ALT KASA
HIDDEN SUBFRAME



97

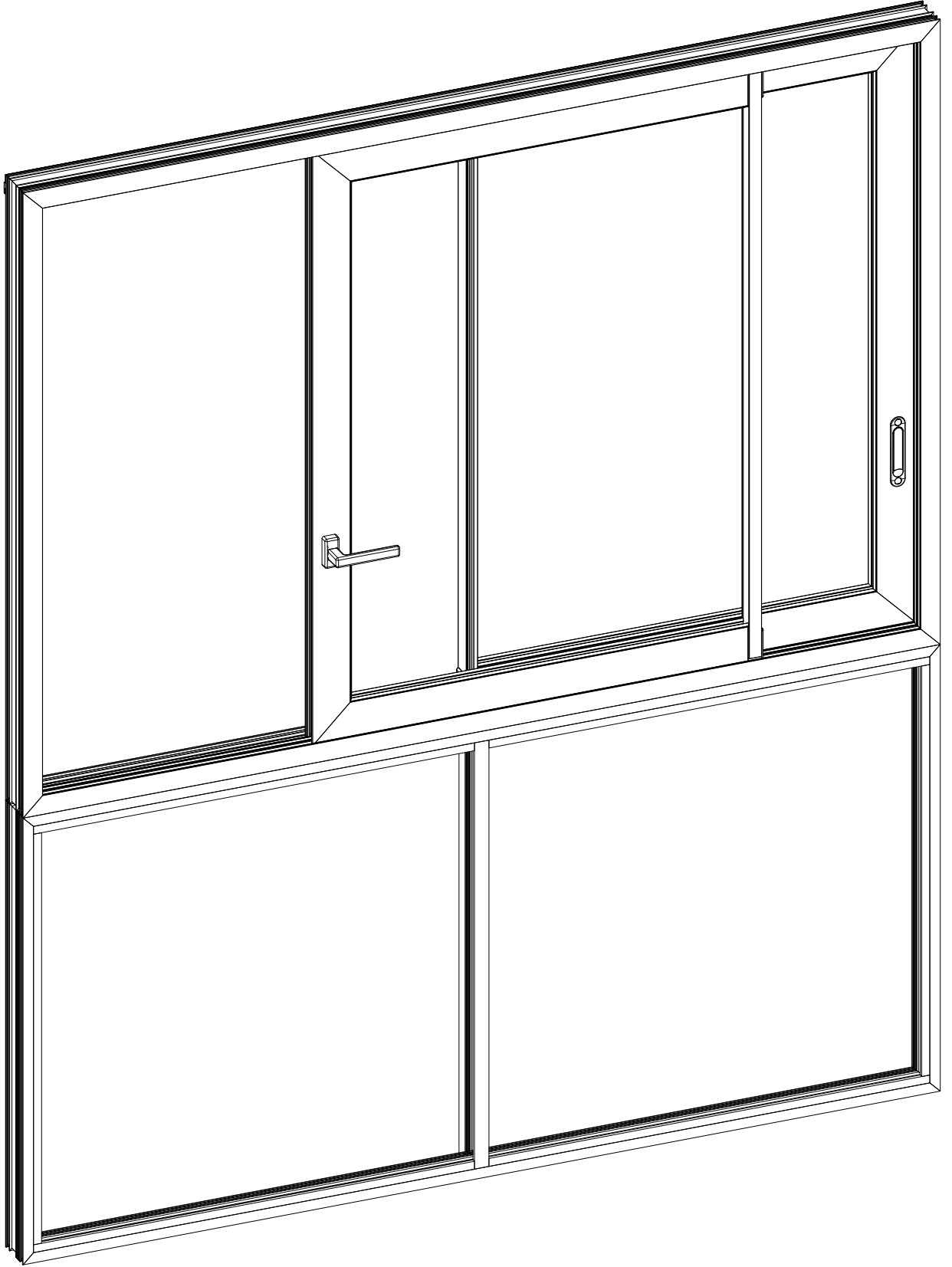
FERMO
SYSTEM

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MAESTRO 89 Insulated Sliding

SİSTEM KESİT DETAYLARI

SYSTEM CROSS SECTION DETAILS



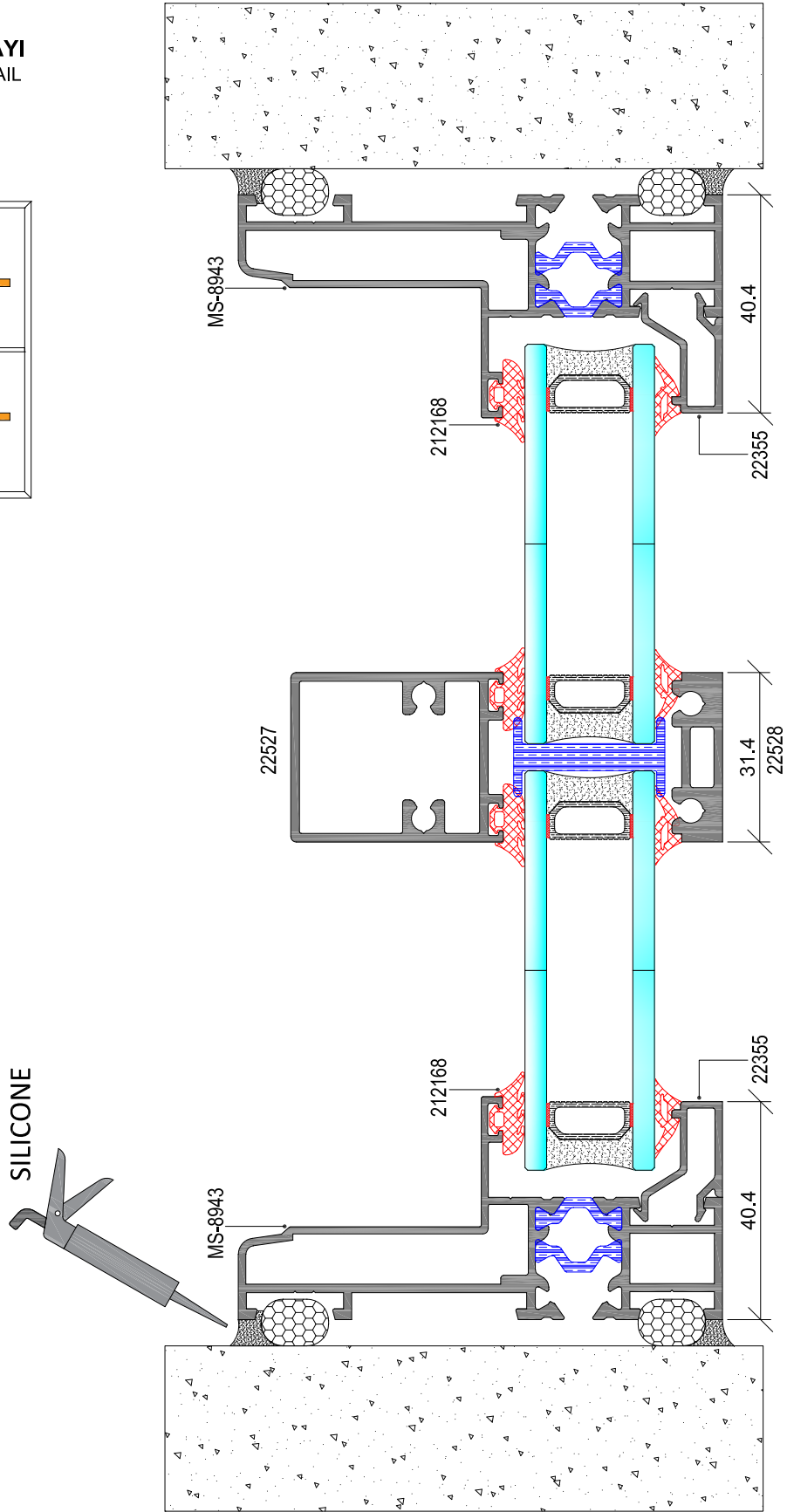
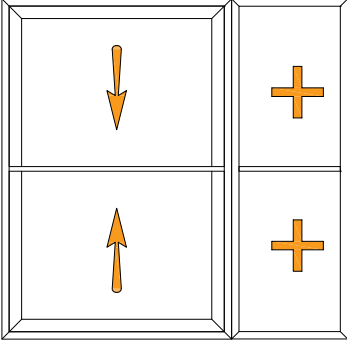
FERMO
SA SYSTEM

98

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MAESTRO 89 Insulated Sliding

ALT SABİT SÜRME DETAYI
BOTTOM FIXED SLIDING DETAIL

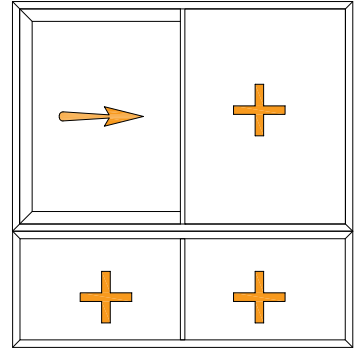
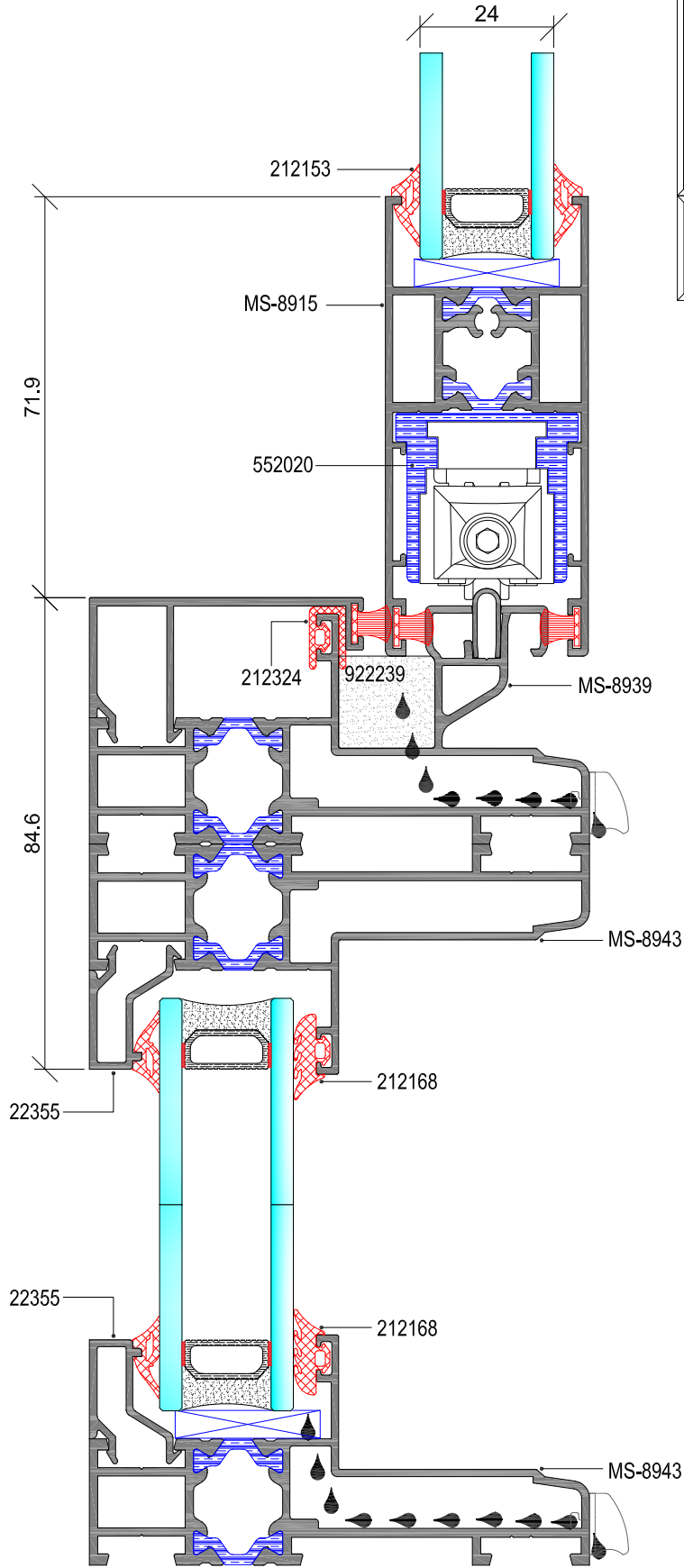


99

FERMO
SYSTEM

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MAESTRO 89 Insulated Sliding



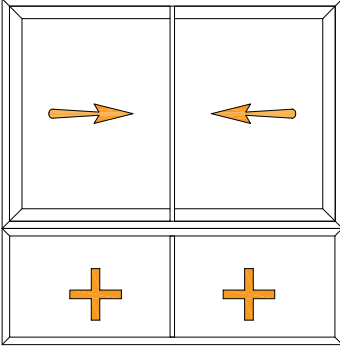
ALT SABİT SÜRME DETAYI
BOTTOM FIXED SLIDING DETAIL

FERMO SA
SYSTEM

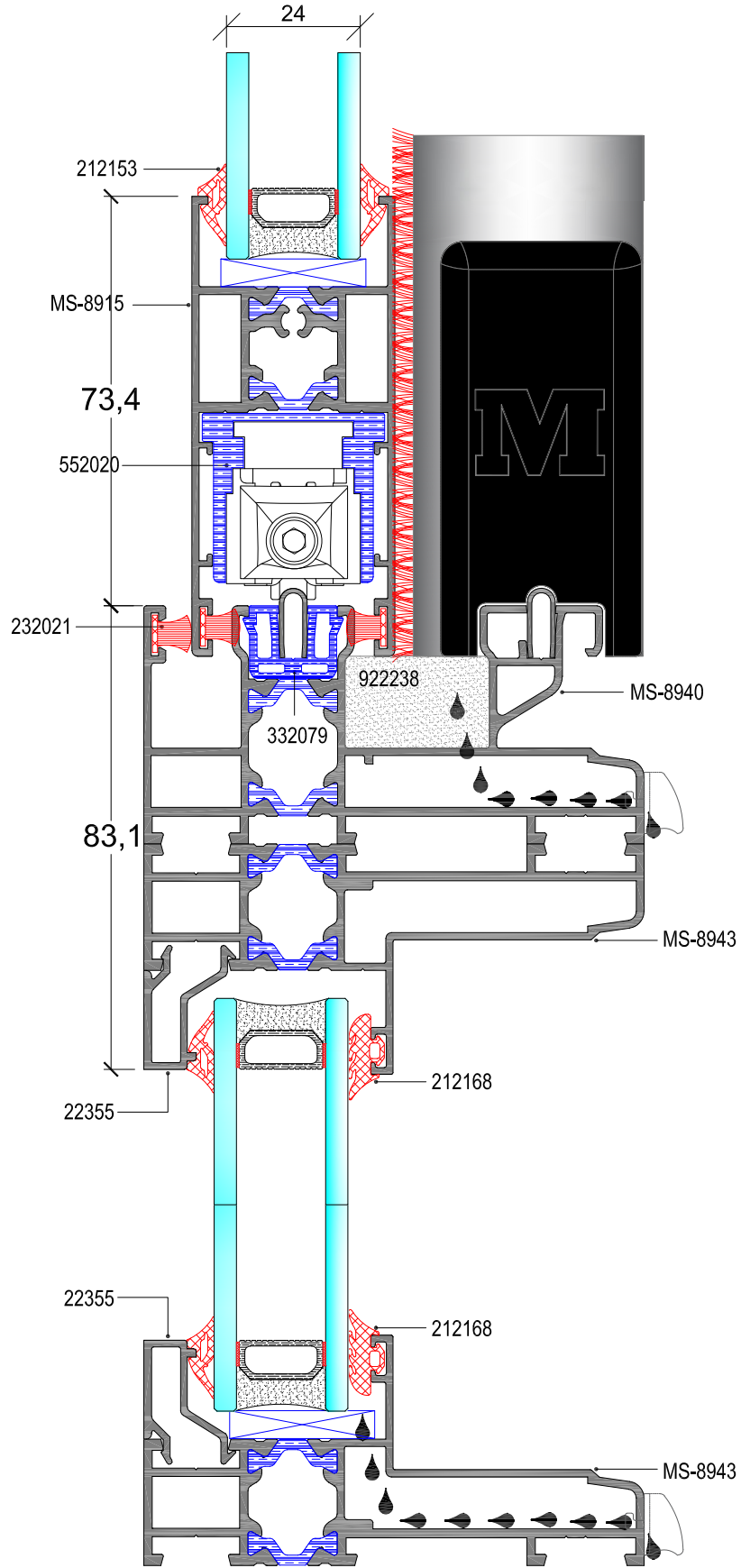
100

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MAESTRO 89 Insulated Sliding



ALT SABİT SÜRME DETAYI
BOTTOM FIXED SLIDING DETAIL

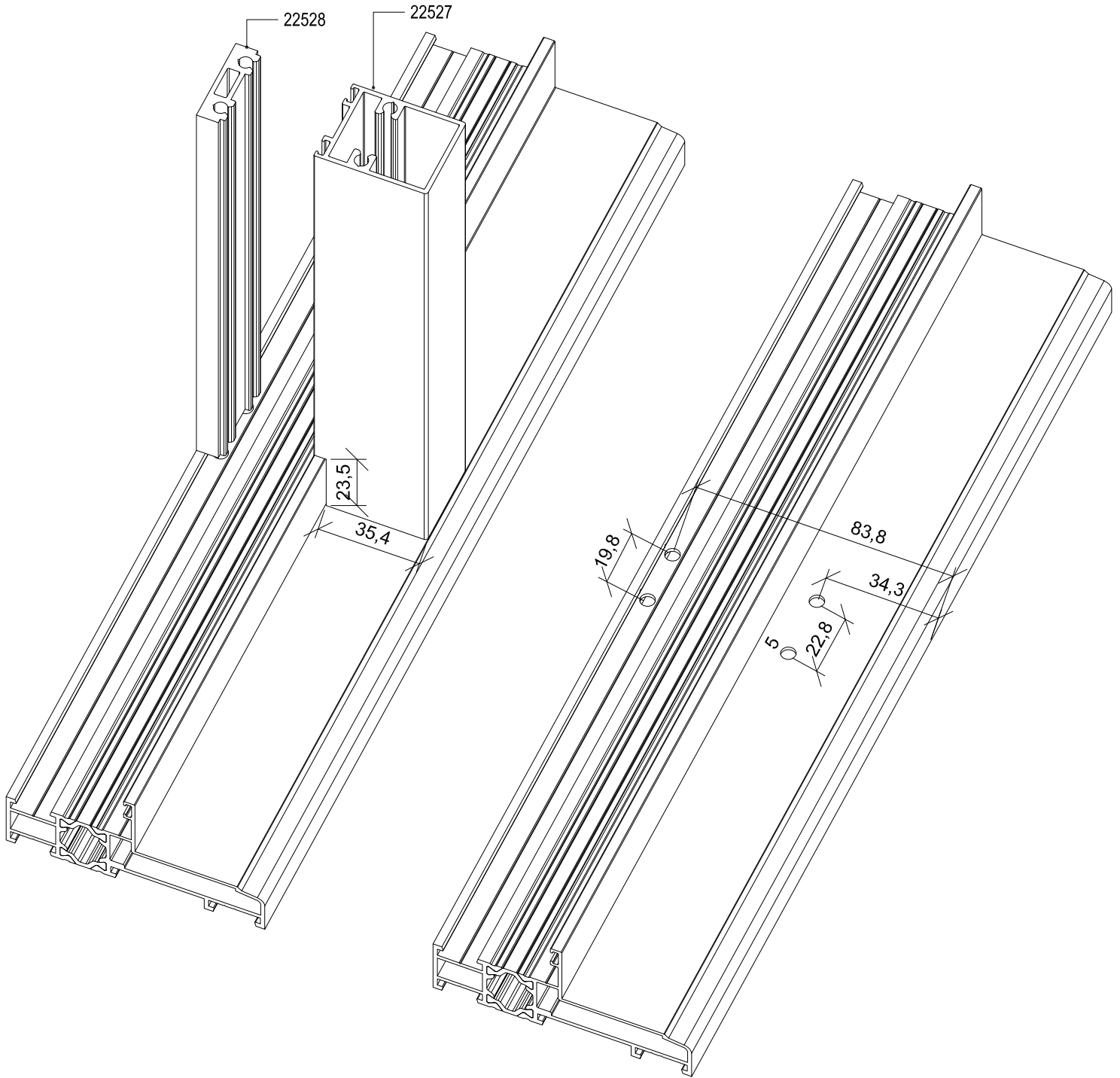


101

FERMO
SYSTEM

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MAESTRO 89 Insulated Sliding

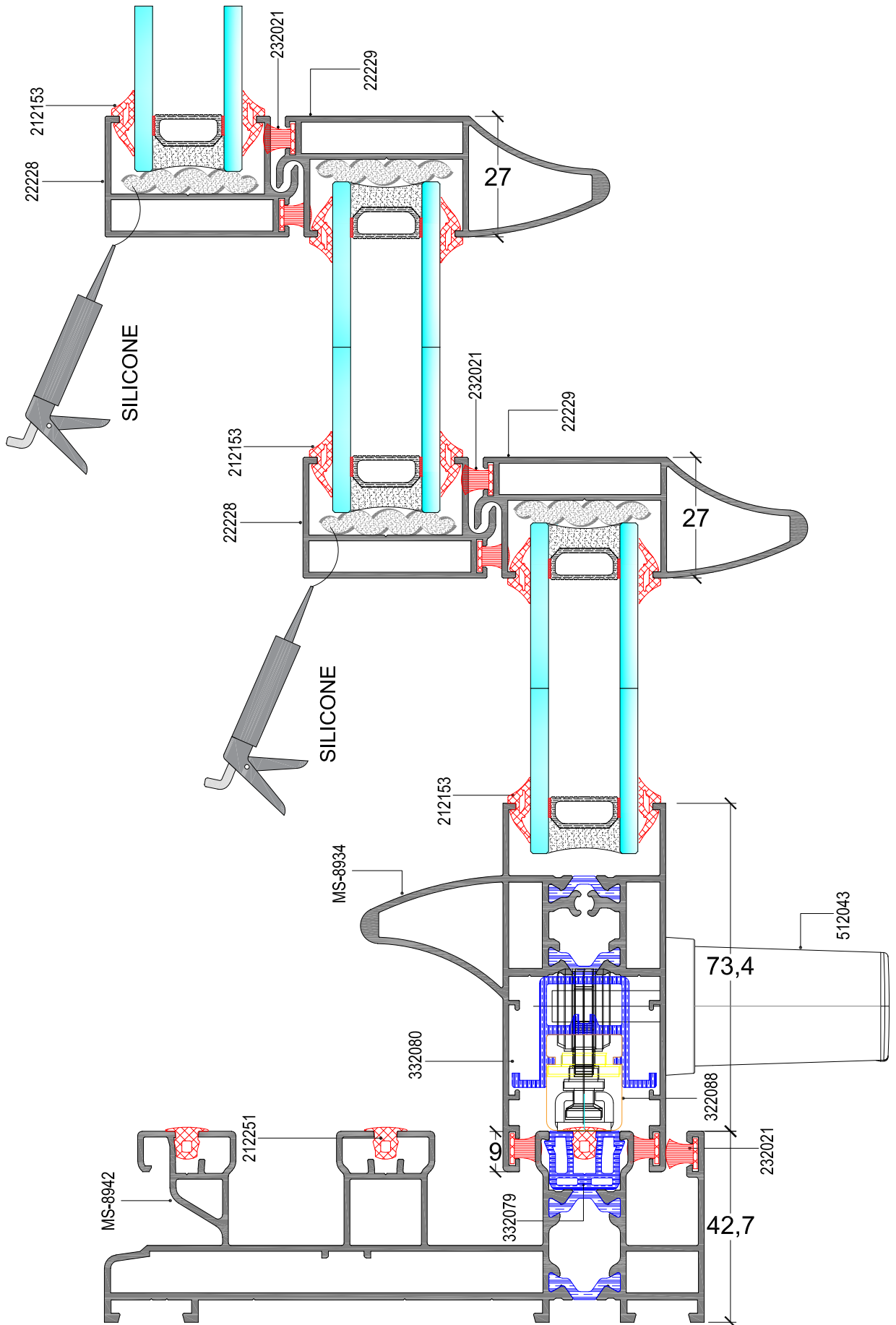


FERMOSA
SYSTEM

102

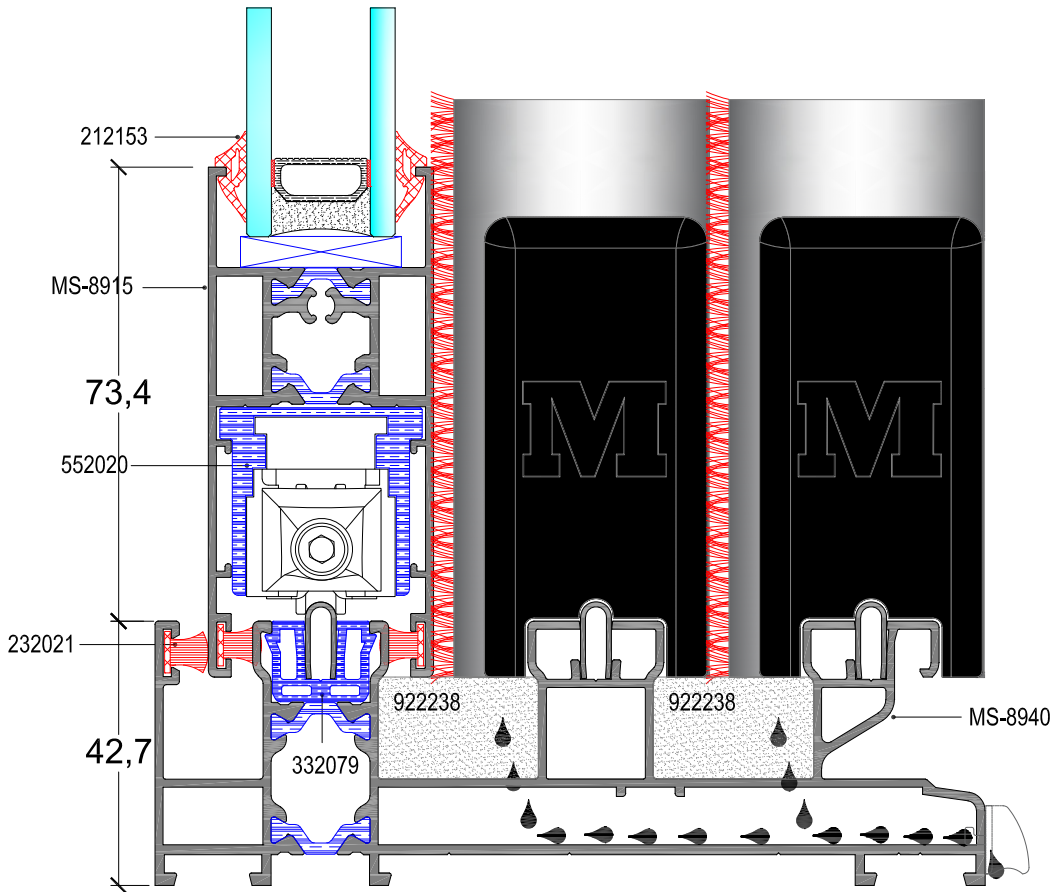
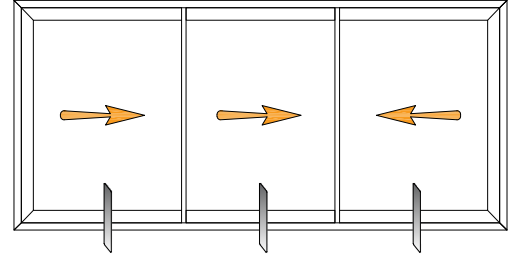
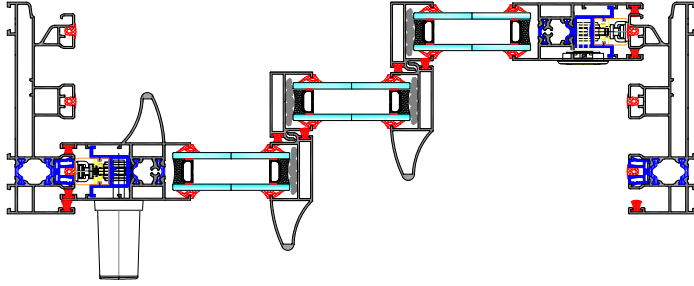
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MAESTRO 89 Insulated Sliding



MAESTRO 89 Insulated Sliding

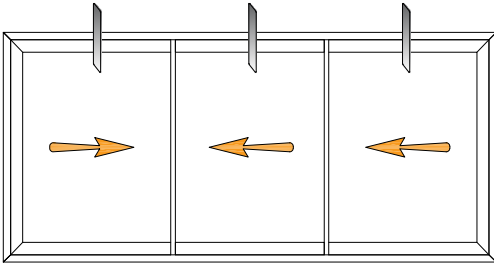
ÜÇ KANATLI YALITIMLI SÜRME DETAYI
INSULATED SLIDING DOOR DETAIL WITH TRIPLE SASH



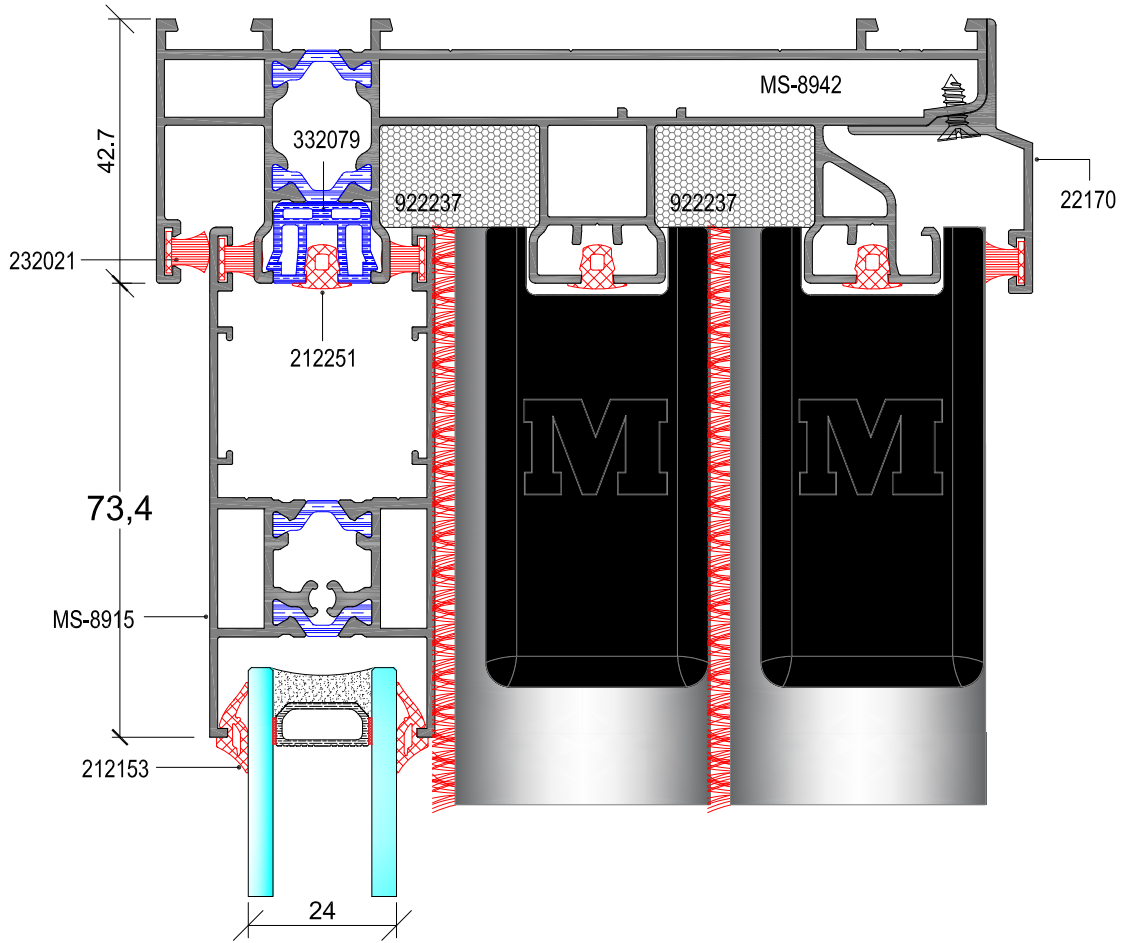
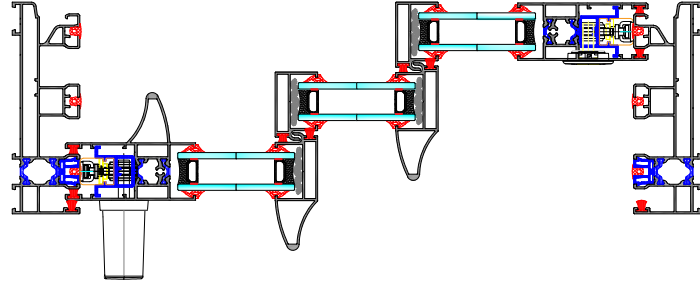
FERMOSA
SYSTEM

104

MAESTRO 89 Insulated Sliding

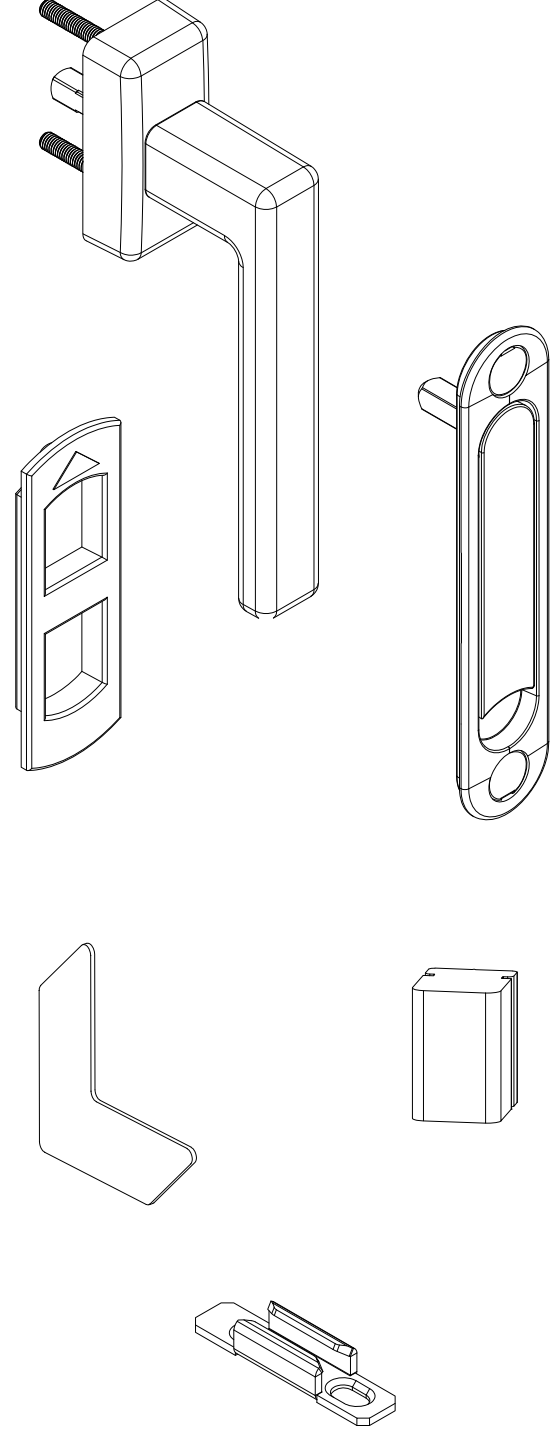


ÜÇ KANATLI YALITIMLI SÜRME DETAYI
INSULATED SLIDING DOOR DETAIL WITH TRIPLE SASH



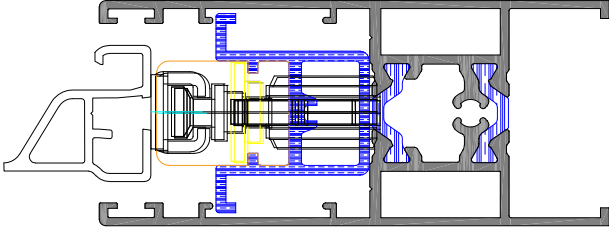
AKSESUARLAR

ACCESSORIES

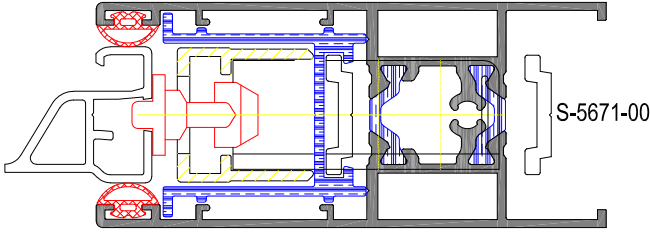


MAESTRO 89 Insulated Sliding

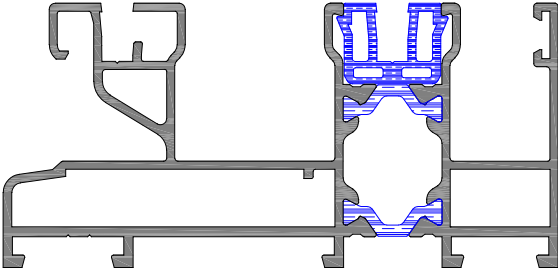
332080 PVC İSPANYOLET PROFİLİ



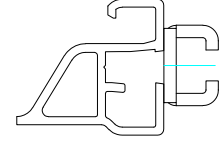
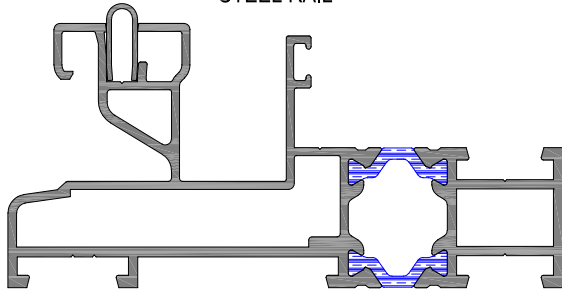
332085 PVC HB PROFİLİ



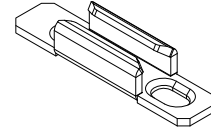
332079 PVC RAY PROFİL



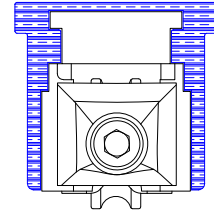
332036 ÇELİK RAU
STEEL RAIL



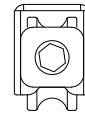
512060 METAL KARŞILIK
METAL STRIKER



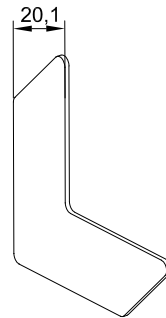
552020 AYARLI RULMAN
DOUBLE BEARING



552022 SİNEKLİK RULMANI
SMALL BEARING



162001 KÖŞE ÇAVUŞU
CORNER ALIGNMENT



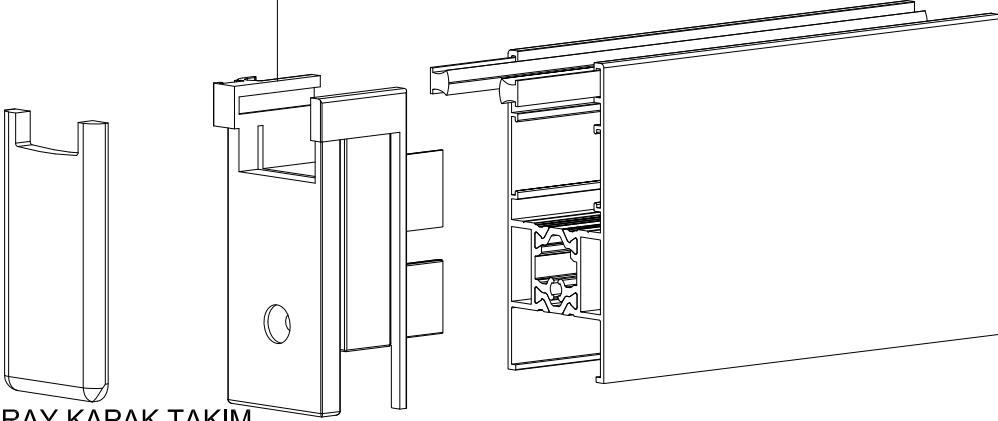
AKSESUARLAR / ACCESSORIES

FERMO
SYSTEM

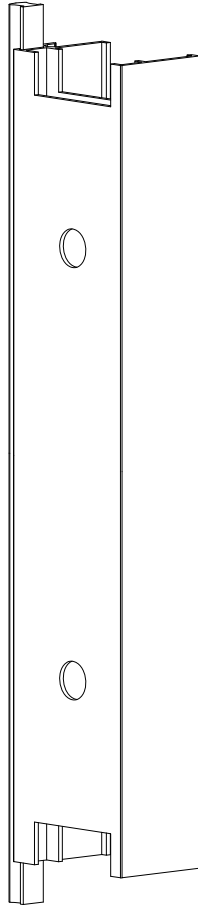
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MAESTRO 89 Insulated Sliding

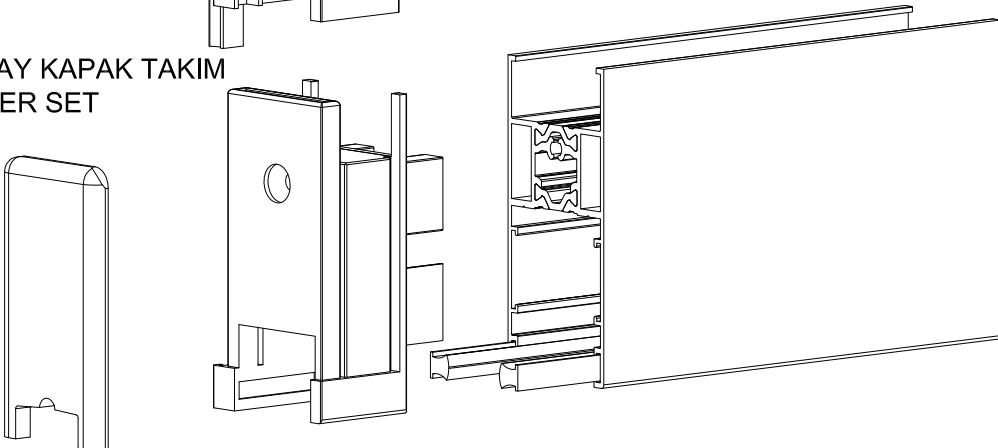
322098 KENET KÖŞE BİRLEŞİM TAPA SETİ
CORNER CONNECTION PLUG FOR CLAMP SET



322083 RAY KAPAK TAKIM
RAY COVER SET



322083 RAY KAPAK TAKIM
RAY COVER SET



AKSESUARLAR / ACCESSORIES

109

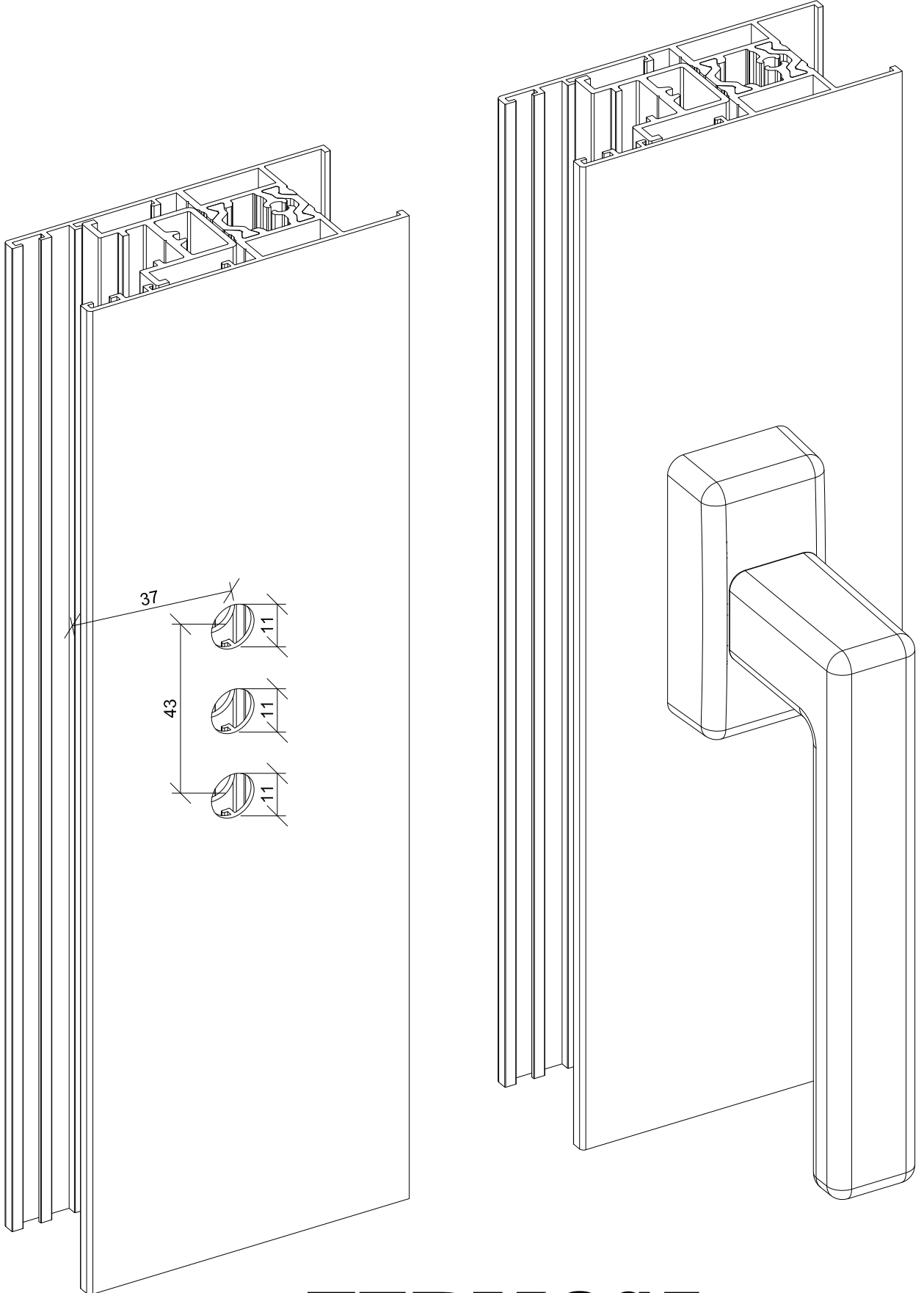
FERMO
SYSTEM

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MAESTRO 89 Insulated Sliding

512043 PENCERE KOLU
WINDOW HANDLE

AKSESUARLAR / ACCESSORIES



FERMO
SYSTEM

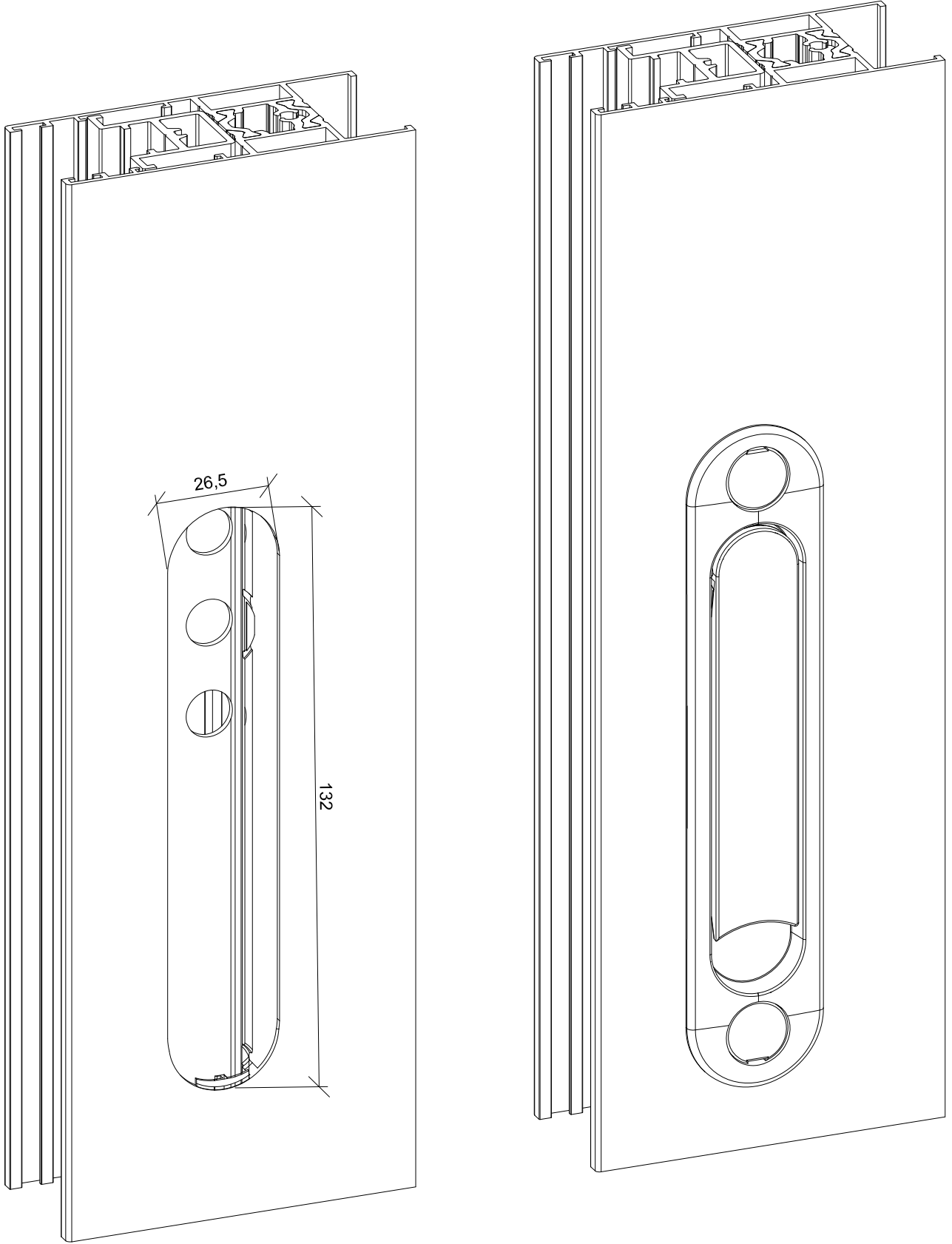
110

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MAESTRO 89 Insulated Sliding

512061 GÖMME PENCERE KOLU
HIDDEN WINDOW HANDLE

AKSESUARLAR / ACCESSORIES



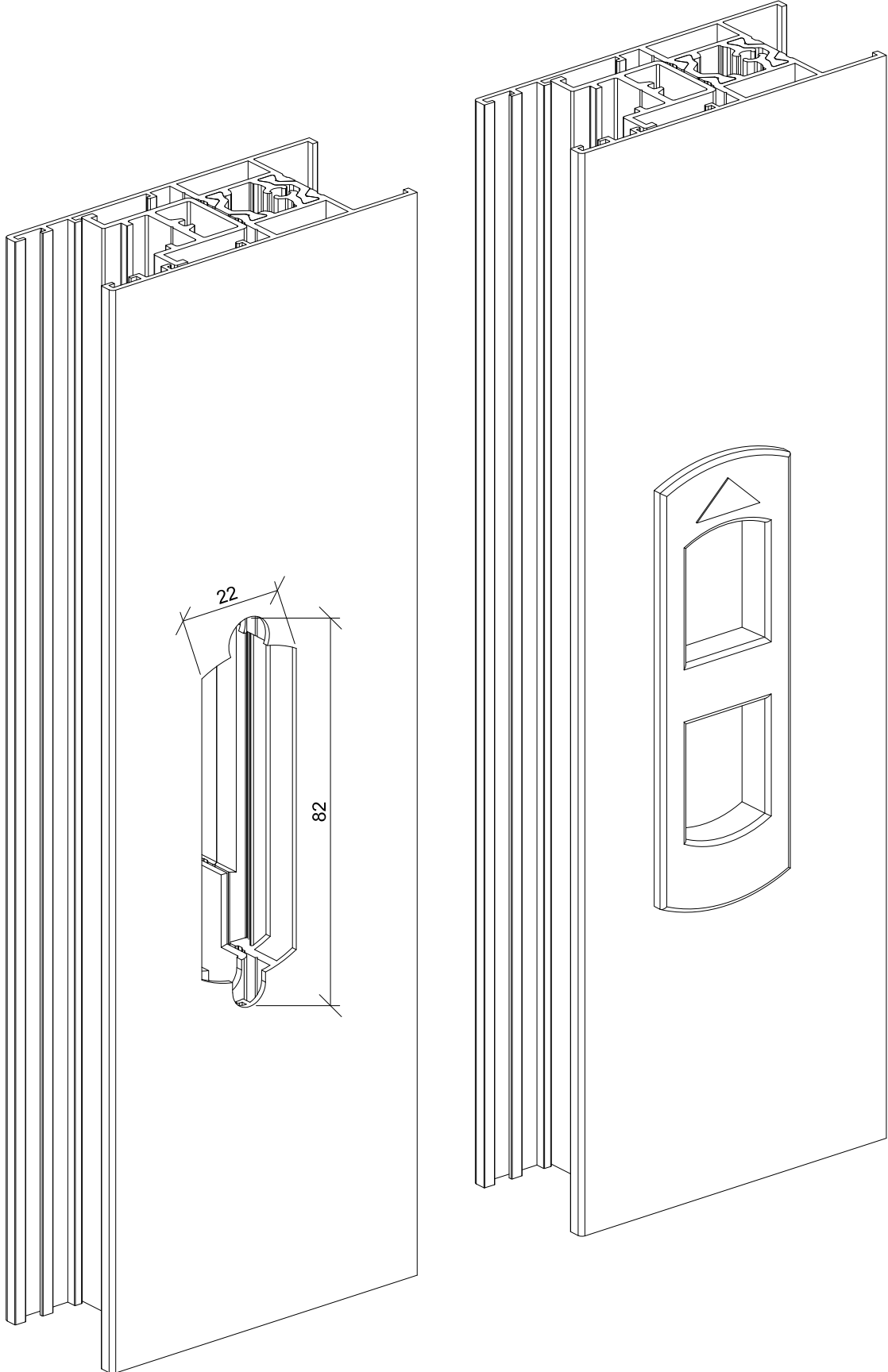
111

FERMO
SYSTEM

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MAESTRO 89 Insulated Sliding

512059 DIŞ ÇEKME KOL
TEETH RECESSED HANDLE



AKSESUARLAR / ACCESSORIES

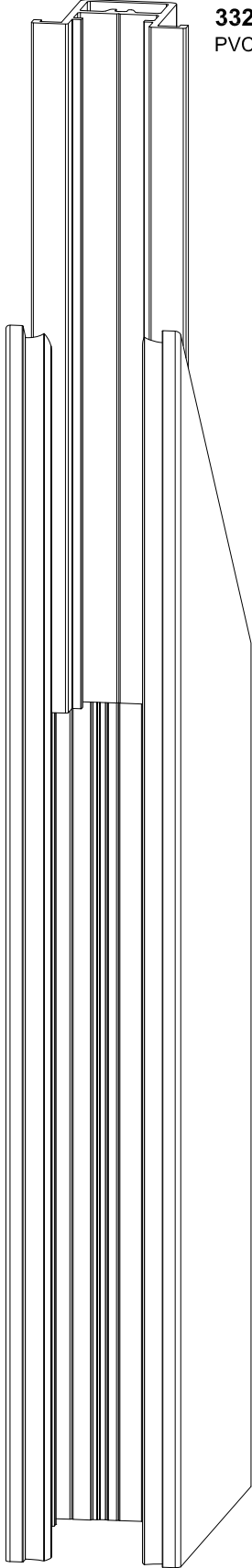
FERMO
SYSTEM

112

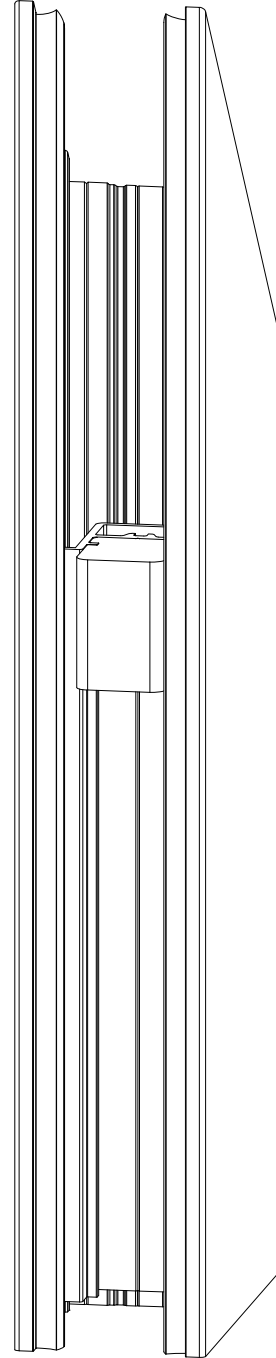
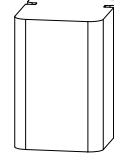
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MAESTRO 89 Insulated Sliding

332080 PVC İSPANYOLET PR.
PVC İSPANYOLET PR.



322088 STOPER



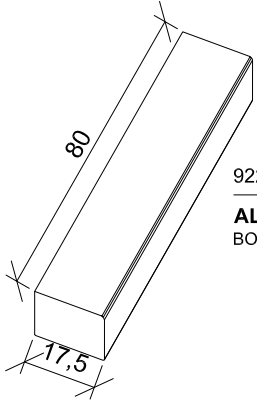
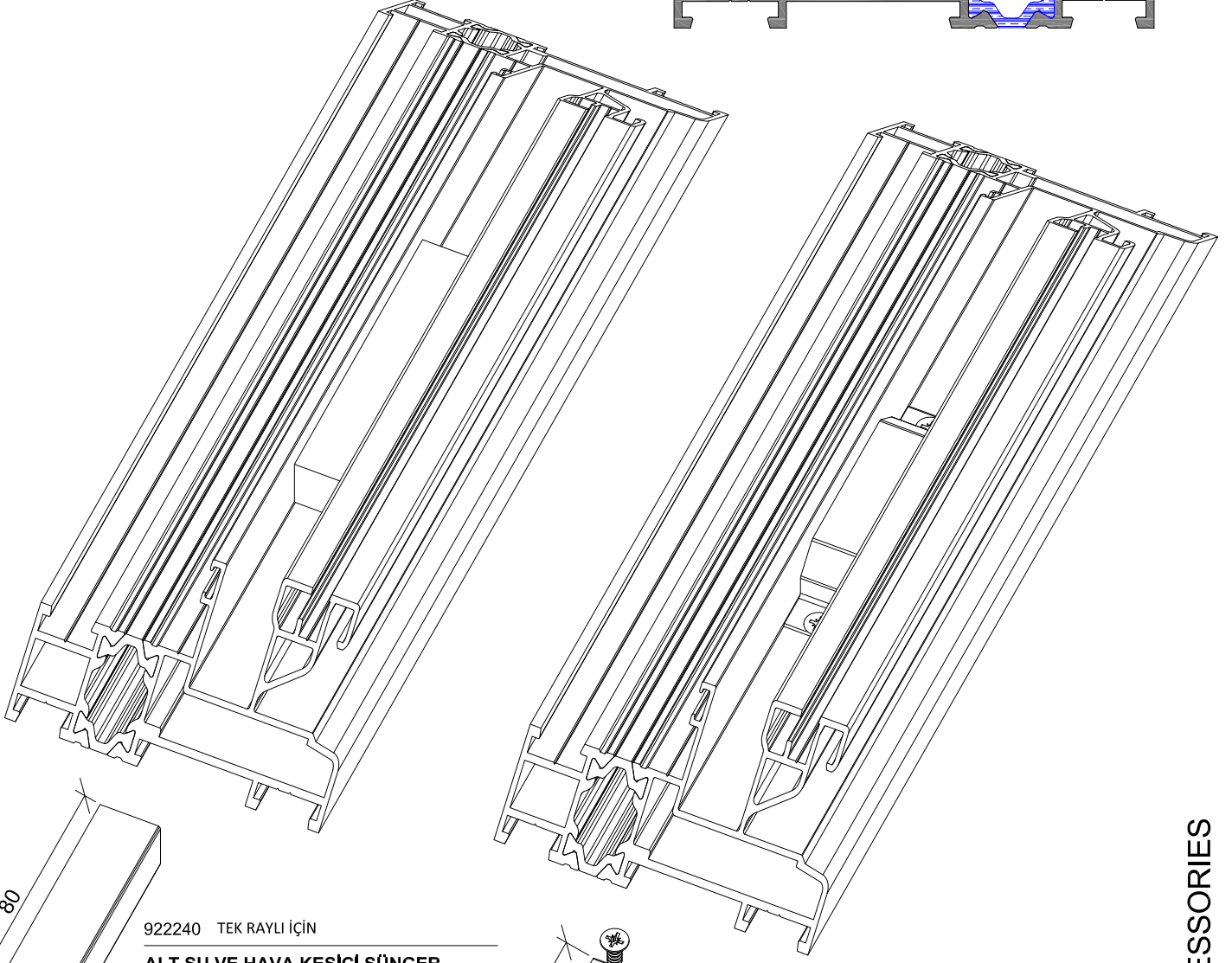
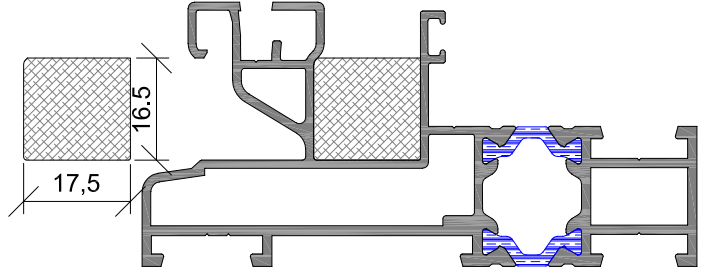
AKSESUARLAR / ACCESSORIES

113

FERMO
SYSTEM

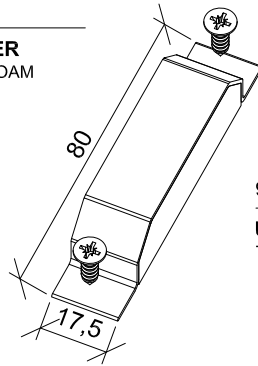
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MAESTRO 89 Insulated Sliding



922240 TEK RAYLI İÇİN

ALT SU VE HAVA KESİCİ SÜNGER
BOTTOM WATER AND AIR BLOCKER FOAM



922239 TEK RAYLI İÇİN

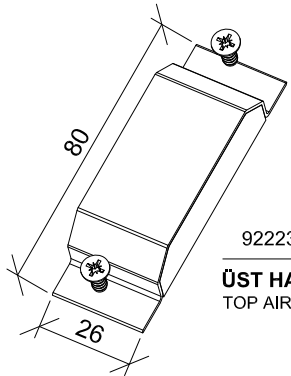
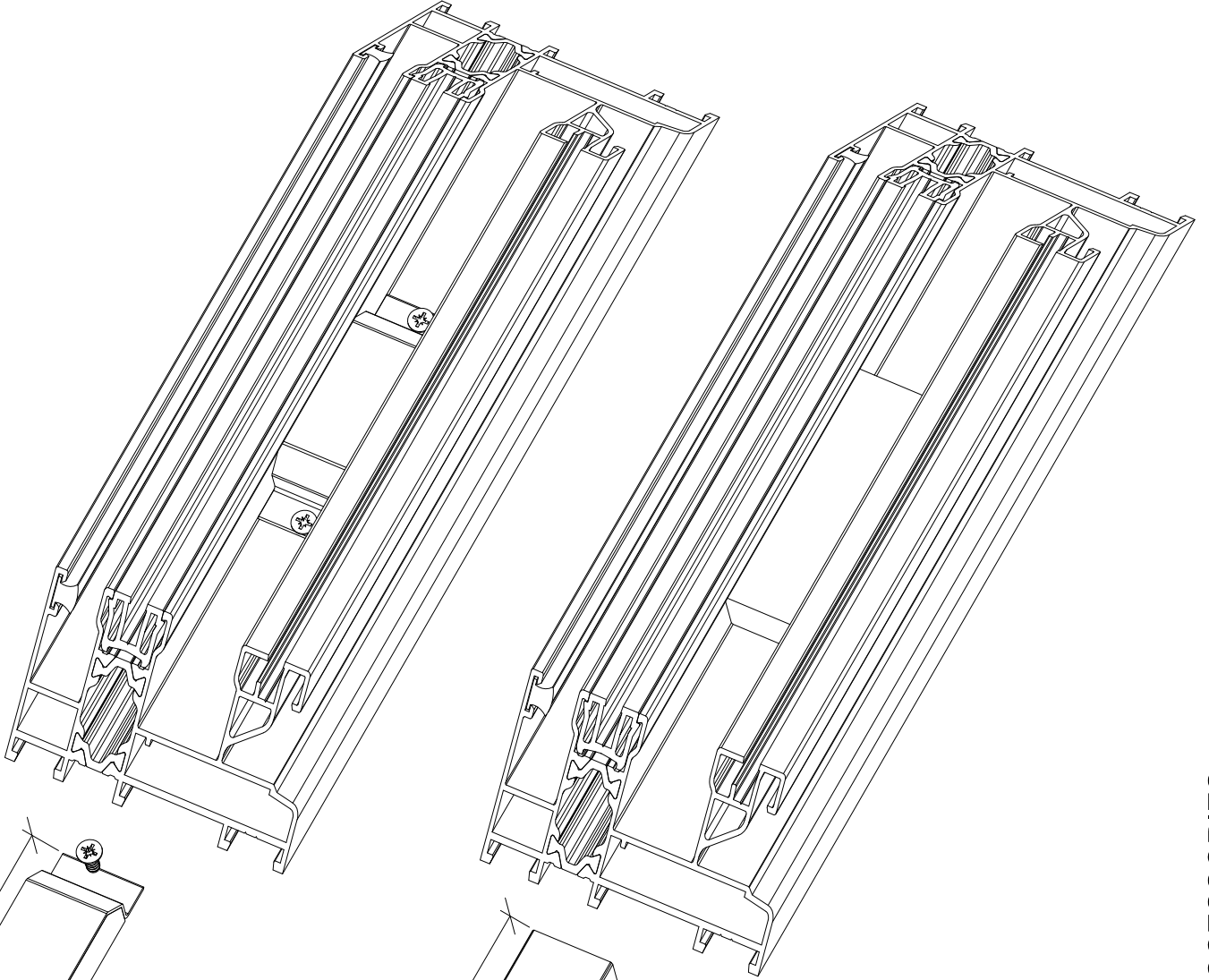
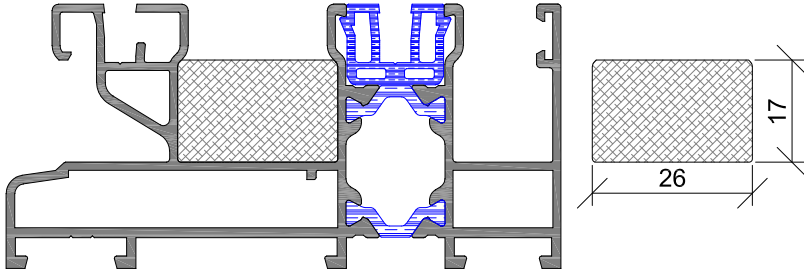
ÜST HAVA KESİCİ SÜNGER
TOP AIR BLOCKER FOAM

AKSESUARLAR / ACCESSORIES

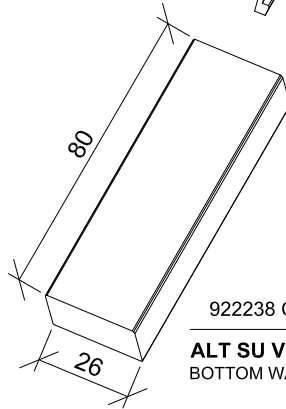
FERMO SA
SYSTEM

114

MAESTRO 89 Insulated Sliding



922237 ÇİFT RAYLI İÇİN
ÜST HAVA KESİCİ SÜNGER
TOP AIR BLOCKER FOAM



922238 ÇİFT RAYLI İÇİN
ALT SU VE HAVA KESİCİ SÜNGER
BOTTOM WATER AND AIR BLOCKER FOAM

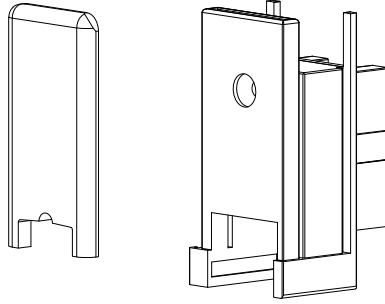
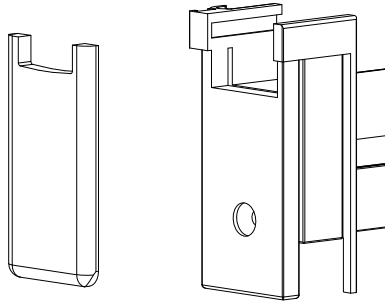
AKSESUARLAR / ACCESSORIES

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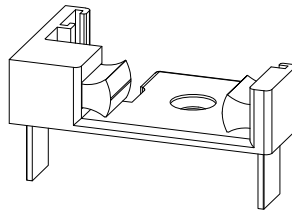
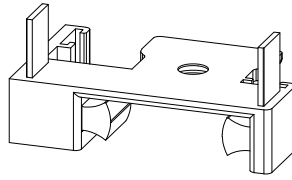
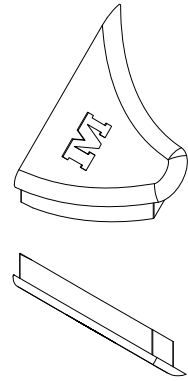
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-TAPA SETLERİ-

-(PLUG KITS)-



AKSESUARLAR / ACCESSORIES

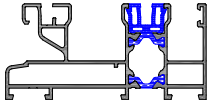
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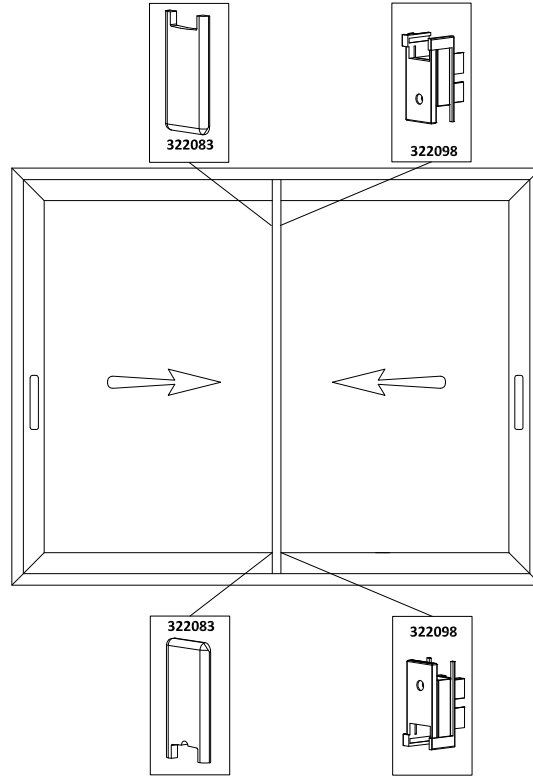
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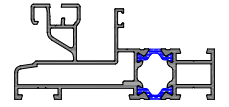
- TAPA SETLERİ (PLUG KITS) - SÜRME AKSESUAR PVC SETİ SLIDING ACCESSORY PVC SET



SET KODU: 372002

SET TAKIM	AKSESUAR KODU ACCESSORY CODE	AKSESUAR TANIMI ACCESSORY DESCRIPTION
2	322083	ALT-ÜST KENET TAPASI / BOTTOM-TOP CLAMP PLUGS
2	322098	ALT-ÜST KENET BİRLEŞİM TAPASI / BOTTOM-TOP CLAMP CONNECTION PLUG

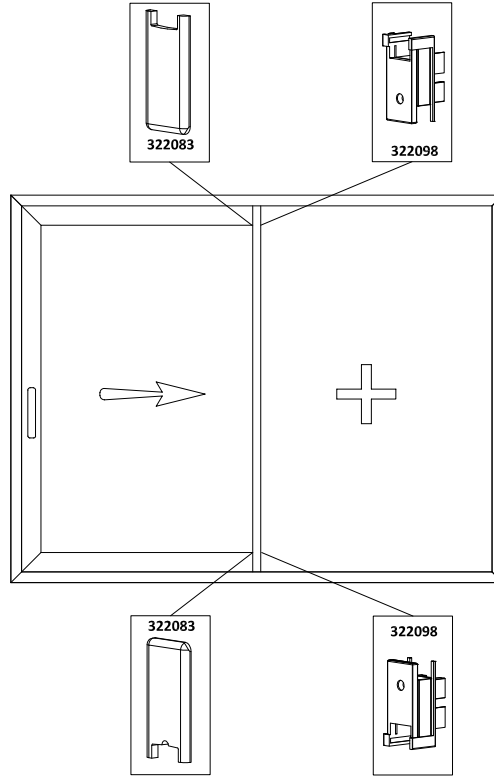
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- TAPA SETLERİ (PLUG KITS) -

SÜRME AKSESUAR PVC SETİ

SLIDING ACCESSORY PVC SET



SET KODU: 372003

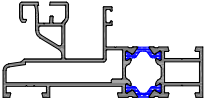
SET TAKIM	AKSESUAR KODU ACCESSORY CODE	AKSESUAR TANIMI ACCESSORY DESCRIPTION
1	322083	ALT-ÜST KENET TAPASI / BOTTOM-TOP CLAMP PLUGS
1	322098	ALT-ÜST KENET BİRLEŞİM TAPASI / BOTTOM-TOP CLAMP CONNECTION PLUG

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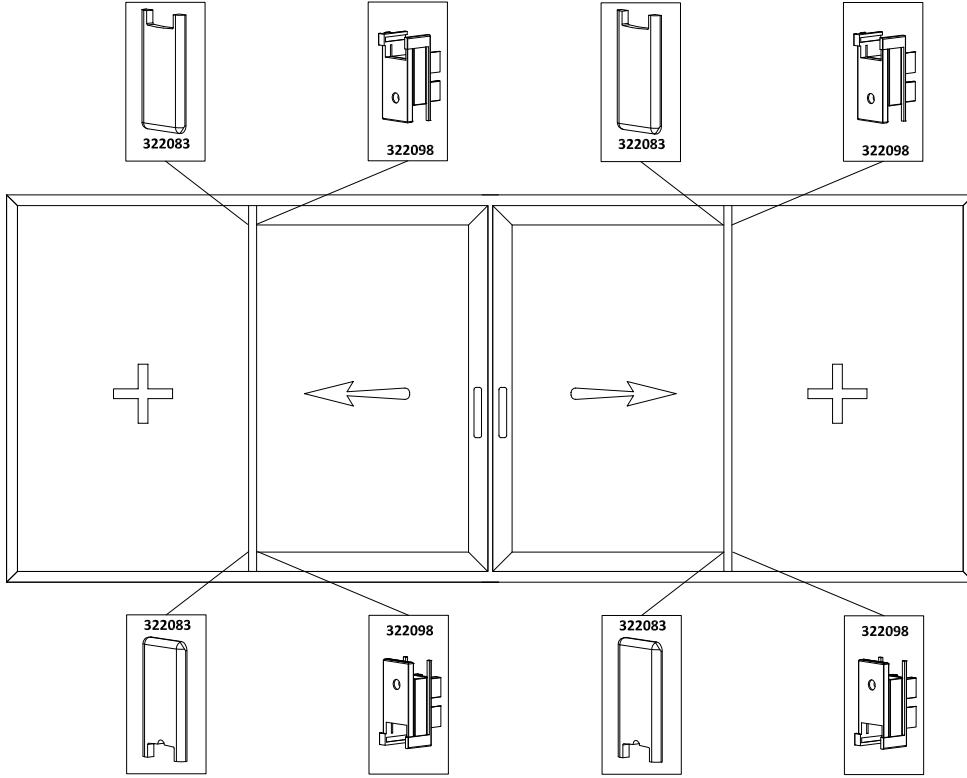
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- TAPA SETLERİ (PLUG KITS) - SÜRME AKSESUAR PVC SETİ SLIDING ACCESSORY PVC SET



SET KODU: 372002

SET TAKIM	AKSESUAR KODU ACCESSORY CODE	AKSESUAR TANIMI ACCESSORY DESCRIPTION
2	322083	ALT-ÜST KENET TAPASI / BOTTOM-TOP CLAMP PLUGS
2	322098	ALT-ÜST KENET BİRLEŞİM TAPASI / BOTTOM-TOP CLAMP CONNECTION PLUG

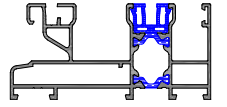
AKSESUARLAR / ACCESSORIES

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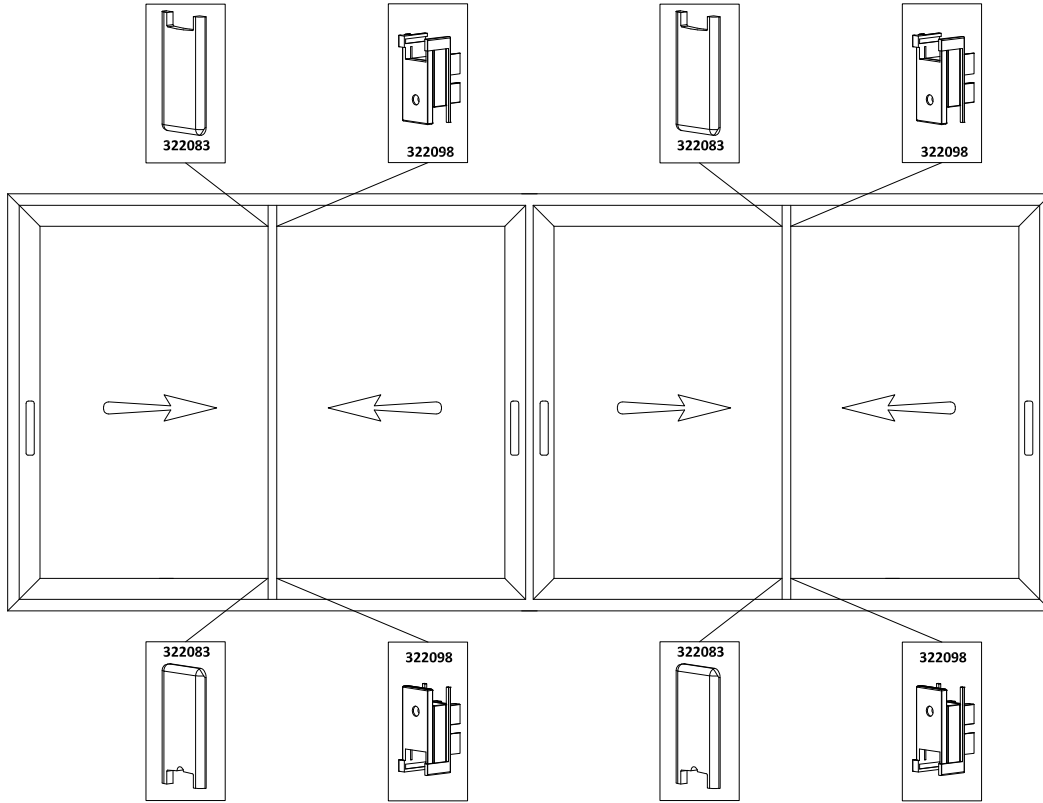
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- TAPA SETLERİ (PLUG KITS) -

SÜRME AKSESUAR PVC SETİ

SLIDING ACCESSORY PVC SET



SET KODU: 372004

SET TAKIM	AKSESUAR KODU ACCESSORY CODE	AKSESUAR TANIMI ACCESSORY DESCRIPTION
4	322083	ALT-ÜST KENET TAPASI / BOTTOM-TOP CLAMP PLUGS
4	322098	ALT-ÜST KENET BİRLEŞİM TAPASI / BOTTOM-TOP CLAMP CONNECTION PLUG

AKSESUARLAR / ACCESSORIES

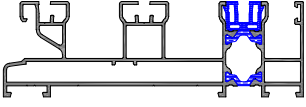
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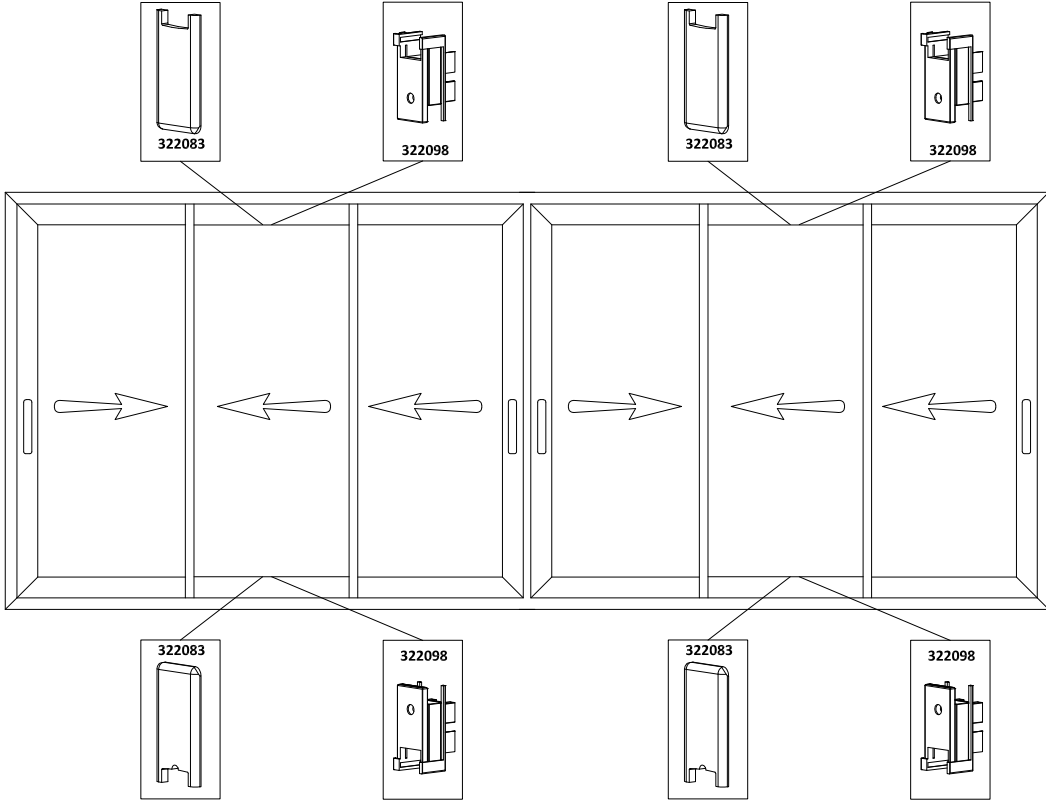
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- TAPA SETLERİ (PLUG KITS) - SÜRME AKSESUAR PVC SETİ SLIDING ACCESSORY PVC SET

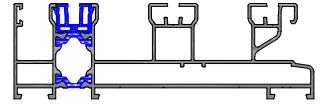


SET KODU: 372005

SET TAKIM	AKSESUAR KODU ACCESSORY CODE	AKSESUAR TANIMI ACCESSORY DESCRIPTION
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AKSESUARLAR / ACCESSORIES

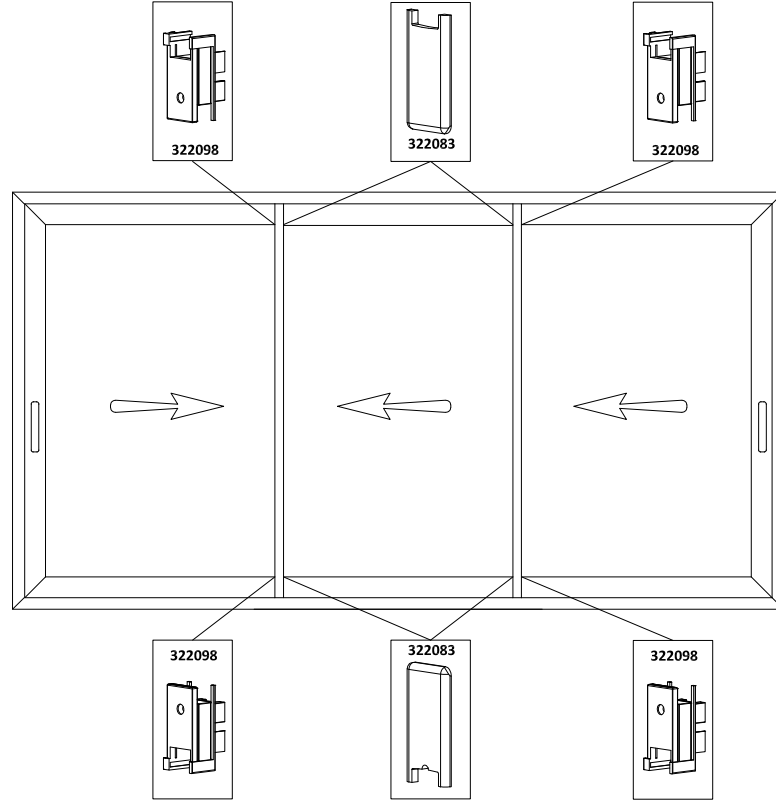
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- TAPA SETLERİ (PLUG KITS) -

SÜRME AKSESUAR PVC SETİ

SLIDING ACCESSORY PVC SET



SET KODU: 372004

SET TAKIM	AKSESUAR KODU ACCESSORY CODE	AKSESUAR TANIMI ACCESSORY DESCRIPTION
4	322083	ALT-ÜST KENET TAPASI / BOTTOM-TOP CLAMP PLUGS
4	322098	ALT-ÜST KENET BİRLEŞİM TAPASI / BOTTOM-TOP CLAMP CONNECTION PLUG

AKSESUARLAR / ACCESSORIES

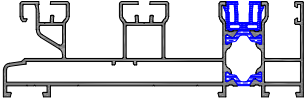
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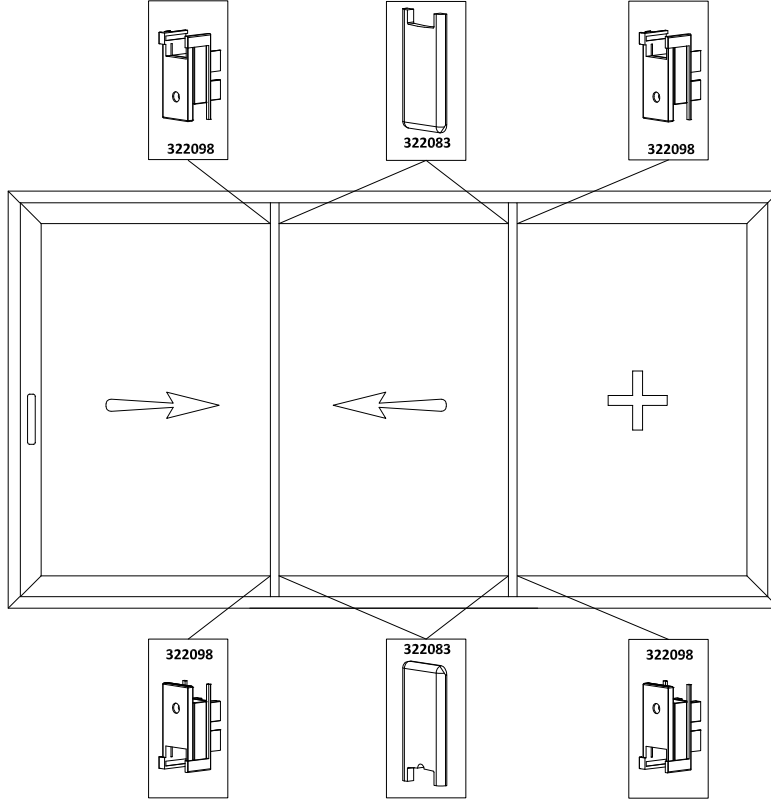
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- TAPA SETLERİ (PLUG KITS) - SÜRME AKSESUAR PVC SETİ SLIDING ACCESSORY PVC SET



SET KODU: 372004

SET TAKIM	AKSESUAR KODU ACCESSORY CODE	AKSESUAR TANIMI ACCESSORY DESCRIPTION
4	322083	ALT-ÜST KENET TAPASI / BOTTOM-TOP CLAMP PLUGS
4	322098	ALT-ÜST KENET BİRLEŞİM TAPASI / BOTTOM-TOP CLAMP CONNECTION PLUG

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EPDM FİTİLLER / EPDM GASKETS

ÇİZİM / DRAWING	AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	TAKILMA BÖLGESİ / APPLICATION AREA
	212153 KAMA FİTİLİ 3 mm (24MM CAM İÇİN) / SUPPORT GASKET 3 mm BİRİM AĞIRLIK / UNIT WEIGHT: 42 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 350 m	
	212154 KAMA FİTİLİ 4 mm (22MM CAM İÇİN) / SUPPORT GASKET 4 mm BİRİM AĞIRLIK / UNIT WEIGHT: 55 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 270 m	
	212155 KAMA FİTİLİ 5 mm (20MM CAM İÇİN) / SUPPORT GASKET 5 mm BİRİM AĞIRLIK / UNIT WEIGHT: 65 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 230 m	
	212324 KAMA KASA BİNE FİTİLİ / STEP GASKET FOR FRAME BİRİM AĞIRLIK / UNIT WEIGHT: 0,47 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 300 m	
	232021 PERDELİ FIRÇA FİTİL 69X700 / WEATHER STRIP BRUSH KOLİ MİKTARI / PACKAGE QUANTITY: 450 m	
	212158 SİNEKLİK FİTİLİ / GASKET FOR INSECT SCREEN BİRİM AĞIRLIK / UNIT WEIGHT: 31 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 485 m	
	212251 RAY KAPATMA FİTİLİ / RAIL COVER GASKET FOR FRAME BİRİM AĞIRLIK / UNIT WEIGHT: 45 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 375 m	

AKSESUARLAR / ACCESSORIES

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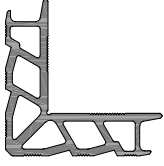
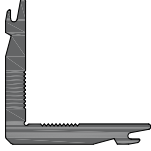
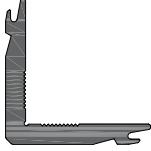
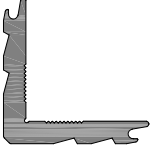
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KÖŞE TAKOZLARI / CORNER CLEATS

ÇİZİM / DRAWING	AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	KESİM ÖLÇÜSÜ CUTTING DIMENSION
	111303 PROFİL NUMATASI / PROFILE NUMBER: 5880-19 BİRİM AĞIRLIK / PROFILE WEIGHT: 2,710 kg/m	6,8 mm
	111350 PROFİL NUMATASI / PROFILE NUMBER: 20234 BİRİM AĞIRLIK / PROFILE WEIGHT: 2,553 kg/m	38mm
	1113345 PROFİL NUMATASI / PROFILE NUMBER: 20234 BİRİM AĞIRLIK / PROFILE WEIGHT: 2,553 kg/m	15,6mm
	111318 PROFİL NUMATASI / PROFILE NUMBER: MS8920 BİRİM AĞIRLIK / PROFILE WEIGHT: 2,748 kg/m	19,5mm

AKSESUARLAR / ACCESSORIES

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TEKNİK ÖZELLİKLER / TECHNICAL PROPERTIES

Alüminyum profil üretim tesisimiz **ISO 9001** , **ISO 14001** , **ISO 18001** kalite güvence belgelerine sahiptir.

1-Profil Hammaddesi (*Raw Material*) : AA 6063 (AlMgSi 0.5 F22) , **EN 573-3**

2-Mekanik Özellikler (*Mechanical Properties*) : **EN 755-2**

Elastisite Modülü (*Elasticity Modul*) : 7000 kN/cm²

Kopma Mukavemeti (*Yield Strenght*) : 215 N/mm²

Akma Mukavemeti (*Flow Strenght*) : 160 N/mm²

Uzama (*Elongation*) : minimum 6 %

Sertlik (*Hardness*) : 70 HRB

3-Bariyer Hammaddesi

a-PA 66 GF 25 (25 % cam elyaf takviyeli polyamid) (*25 % the manufactured from glass stiffened polyamid*):

Eloksal ve toz boya işleminden **önce** yerleştirilir. (*Placed into the aluminium profiles **before** anodic oxidation and powder coating.*)

b- PVC :

Eloksal ve toz boya işleminden **sonra** yerleştirilir. (*Placed into the aluminium profiles **after** anodic oxidation and powder coating.*)

PVC bariyerler, Polyamid bariyerlere göre 10 % daha ağırdır. (*PVC insulation bars are 10 % heavier than Polyamid insulation bars .*)

4-Eloksal (*Anodic Oxidation*)

Eloksallı Ürünlere İlişkin Teknik Resim Standardı : **DIN 17611** , **EN 12371-1 (QUALANOD)**

(*The Standarts of Technical Delivery Terms Regarding Eloxal Products*)

Eloksal Tabakasının Kalınlığı (*Thickness of Eloxal Coating*): 10-15 mikron, **EN ISO 2360**

Daldırma ve Renklendirme Standardı (*The Standarts of Immersion Coloring*) : **DIN 50018**

Tesbit İşlemi Standardı (*Sealing Standarts*) : **EN 12373-5** , **ISO 3210 (TS 2676)**

5-Toz Boya Standartları (*The Standarts of Powder Coating*)

Kalınlık (*Thickness*) : min. 60 mikron

Adhezyon (*Adhesion*) : **EN ISO 2409**

Esneklik (*Elasticity*) : **EN ISO 1519**

Deformasyon (*Deformation*) : **EN ISO 6272-1**

Sertlik (*Hardness*) : **EN ISO 2815**

6-Yüzey Görünümü (*Surface Appearance*) : Gözle yapılacak kontrolde,yüzey üzerinde kaplanmış

alan,çizik,pütürlük,kabarıklık,leke,soyulma vb. hatalar görülmemelidir. (*By visual observation,there has been no defects seen on the surface,such as scratches cramped shapes,swellings,stain etc. on the exposed areas.*)

7-Tüm Fitiller (*All gaskets*)

Hammadde (*Raw material*) : EPDM

Derz fitilleri hammaddesi (*Raw material of Gaskets for suture*) : Silikon (*Silicone*)

Ölçü Toleransları Standardı (*Measurement Tolerances Standarts*) : **DIN ISO 3302-1/E2**

Kalite Kontrol Standardı (*Quality Control Standart*) : **RAL-GZ 716**

8-Profil Tasarım ve Üretimindeki Ölçü Toleransları Standartları : **EN 12020-2** , **EN 755-9**

(*Measurement Tolerances Standarts for Profile Design and Manufacturing*)

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KULLANIM ŞARTLAR

Profiller, folyolu muhafaza edilmeli, folyoları inşaat bitiminde çıkartılmalıdır. Kireç ve çimento gibi inşaat malzemeleri alüminyum yüzeylerle temas etmemelidir. Profiller binaya uygulandıktan sonra düzenli aralıklarla temizlenmelidir. Profillerin temizliği, hafifçe sabunlu ılık su ve/veya bu suyla ıslatılmış yumuşak bir bez ile yapılmalı, deterjan, çamaşır suyu, zımpara, tel fırça ve aşındırıcı, alkali, asidik temizleyici kullanılmamalıdır. Sistem için önerilen aksesuar ve sarf malzemeleri katalogda belirtilen biçimde uygulanmalı ve tüm aksesuarları eksiksiz olarak kullanılmalıdır. Sistemin katalogda belirtilen fitilleme, silikonlama, su tahliyesi ve havalandırma metodlarına uyulmalıdır. İlave her türlü uygulama için Burak Alüminyum'dan destek ve onay alınmalıdır.

GARANTİ KOŞULLARI!

Profiller, yukarıda belirtilen şartlara uygun biçimde kullanılmış ve hiçbir şekilde mekanik hasara veya deformasyona uğramamış ise, herhangi bir kusur durumunda, garantimiz yalnız kusurlu parçaların de-montajı, tekrar üretimi, tekrar eloksali ve tekrar yerine takılması ile sınırlı olacaktır. Yukarıda bahsedilmeyen konular iş hukukuna tabidir. Mimari sistem kataloğunda belirtilmeyen veya Burak Alüminyum'un onay vermediği aksesuar ve sarf malzemesi kullanımından doğabilecek her türlü sorumluluk uygulamacı firmaya aittir. Mimari sistem kataloğunda belirtilen detay ve sistem çözümleri haricindeki uygulamalar için Burak Alüminyum'un onayı alınmalıdır. Aksi takdirde bu uygulamalardan meydana gelebilecek problem ve aksaklıklardan Burak Alüminyum sorumlu değildir.

TERMS OF SERVICE

Profiles must be protected with folio tapes and they must be taken out when the structure was finished. Building materials as similar lime and cement must not be touched with the aluminium surfaces. The profiles must be cleaned periodically after the structure was finished. Cleaning of profiles must be done by the fabric that was damped with warm water and soap. Don't use detergent, chlorine water, emery, wire brush, abrasive, base, acidic cleaner. Accessories and consumables should be applied as shown at the catalogue and used completely. Glazing, siliconing, water drainage and ventilation methods specified on the catalogue should be applied completely. Any type of the additional methods should be approved by Burak Aluminium.

TERMS OF WARRANTY

If the profiles was used according to terms of service and they have no mechanical damage or deformation, in any defect situation, our warranty is limited by disassembly, re-product, re-eloxal, re-assembly of faulty pieces. These are subjected to la bor law. Builder is responsible for all conditions by using of accessories and consumables that did not confirmed by Burak Aluminium are not mentioned in catalogue of Architectural System. Confirmation must be taken from Burak Aluminium for applications without details and system solutions that are mentioned in catalogue of architectural sytem. If not Burak Aluminium is not responsible because of any wrong applications.

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Burak Alüminyum San. Tic. A.Ş.

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Fax : + 90 288 436 13 63