

hayatın her yerinde

in every aspect of life

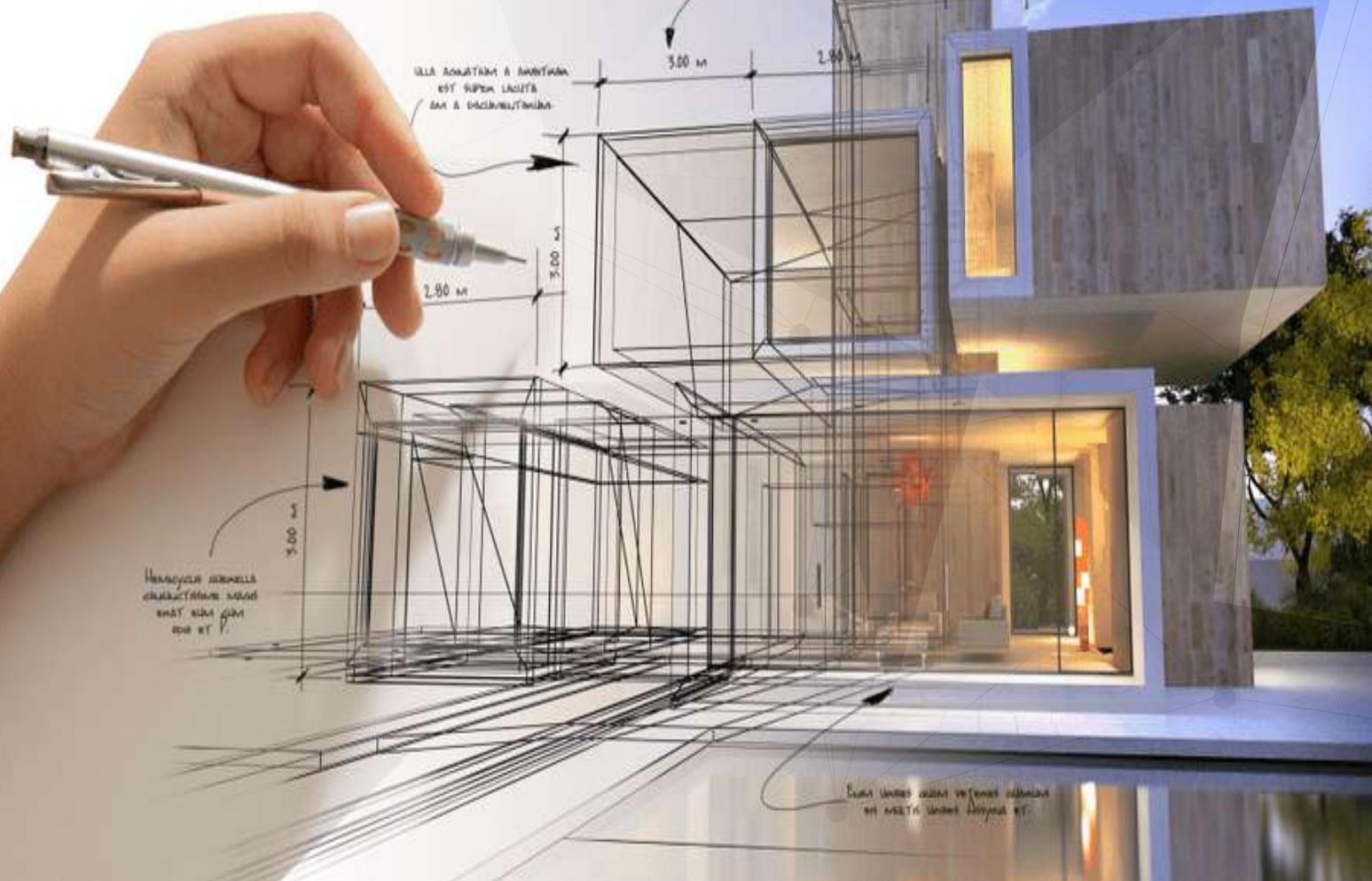
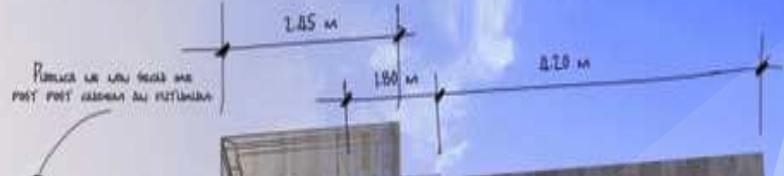
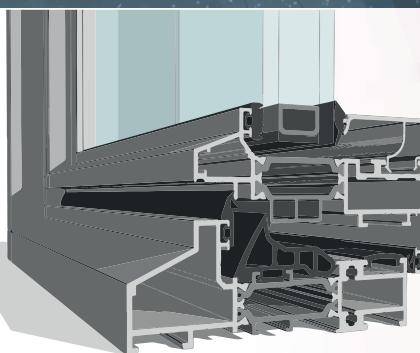
MİMARI SİSTEMLER KATALOĞU

ARCHITECTURAL SYSTEMS
CATALOGUE

FERMOSA

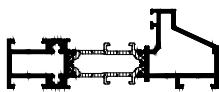
SYSTEM

SMARTNESS 37



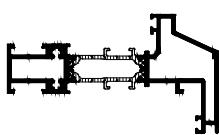
SMARTNESS 37 HINGED System

ÜRÜN KONSEPTİ / PRODUCT CONCEPT



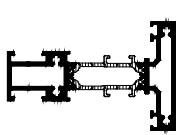
SMARTNESS 37 menteşeli sistem ince ve estetik zarif görünümünün yansırı kasa derinliği 106mm olup kasada 39mm ısı bariyeri kanatta 35mm ısı bariyeri ile maksimum yalıtım performansı sağlamakla beraber yüksek statik değerlerde sağlamaktadır.

SMARTNESS 37 'de kullanılan geometrik tasarım dili, sistemin estetik ve modern yapısını ön plana çıkartmaktadır. Sistemin her detayında görülebilecek geometrik yapı, görsel bütünlüğü bozabilecek gibi bölümlerde ince kesitler kullanılmasıyla birleştiğinde sistemin yapıyla bir bütünlük oluşturmazı sağlanmaktadır. Mimari alüminyum sistemlerde estetiğin artması, imalat ve kullanım zorluğu manasına gelirken; bu tip zorluklar tasarım sürecinin en başında planlandığından, SMARTNESS 37 imalat ve kullanım kolaylığı sağlamakla beraber sistemin yapısal özelliklerine önem verilmiştir.



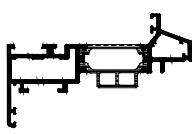
İMALAT KOLAYLIĞI

Sistemin tüm aksesuarları ortak kullanım ve birbiriyle uyumlu çalışma mantığı çerçevesinde tasarlandığından, SMARTNESS 37 imalat kolaylığı yönünden benzersiz bir yapıdadır.



ENERJİ TASARRUFU

Çevreye duyarlılık ve enerji tasarrufu konuları gün geçtikçe önem kazanmakta olduğundan SMARTNESS 37'da ısı yalıtım özelliklerine de önem verildi.



GELİŞTİRİLEBİLİRLİK

SMARTNESS 37 sistem konsepti olarak kolaylıkla geliştirilebilir yapıda dizayn edilmiştir. Bu sayede eklenecek yeni çözümlerinin sisteme adaptesi hızlı biçimde yapılabilmektedir.

The SMARTNESS 37 hinge system is slim and aesthetically elegant looking.

Case depth is 106mm. It provides maximum insulation with 39mm thermal break on the frame and 35mm thermal break on the wing. It has high temperature and static values. Geometric used in SMARTNESS 37 design language, aesthetic and modern highlights its structure.

The geometric structure, which can be seen in every detail of the system, provides an integrity in the system together with the use of thin sections in sections that may disrupt the visual integrity.

While the increase in aesthetics in architectural aluminum systems means difficulty in manufacturing and use; Since such difficulties were planned at the very beginning of the design process, the structural features of the SMARTNESS 37 system were given importance as well as providing ease of manufacture and use.

EASE OF MANUFACTURING

All accessories of the system are common use and compatible with each other. The SMARTNESS 37 is designed for ease of manufacture. It has a unique structure.

ENERGY-SAVING

Environmental awareness and energy saving issues are gaining importance day by day. therefore in the SMARTNESS 37 the heat Insulation properties were also given importance.

DEVELOPABILITY

in SMARTNESS 37 as a system concept easily expandable design has been done.In this way, the adaptation of new solutions to the system can be done very fast

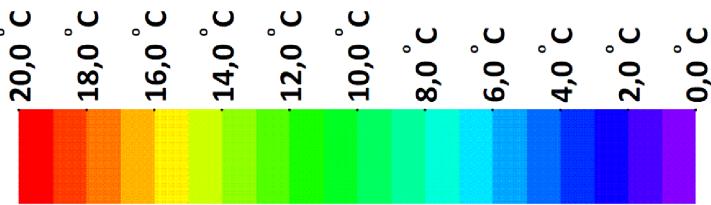
FERMOSA

SYSTEM

SMARTNESS 37 HINGED System

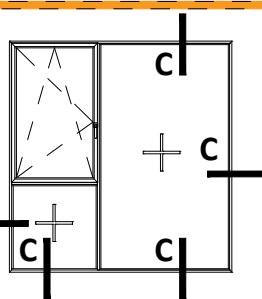
PROFİL TERMAL RAPORLARI

PROFILE THERMAL INSULATION VALUES

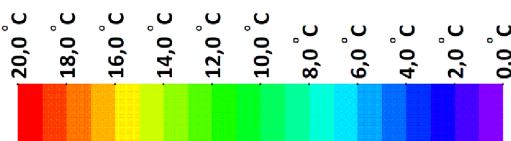


FERMOSA
SYSTEM

SMARTNESS 37 HINGED System



İÇE AÇILIR BİNİLİ PENCERE
INWARD OPENING STEP WINDOW



TERMAL HESAP KOŞULLARI

THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI : 0°C

(OUTER TEMPERATURE)

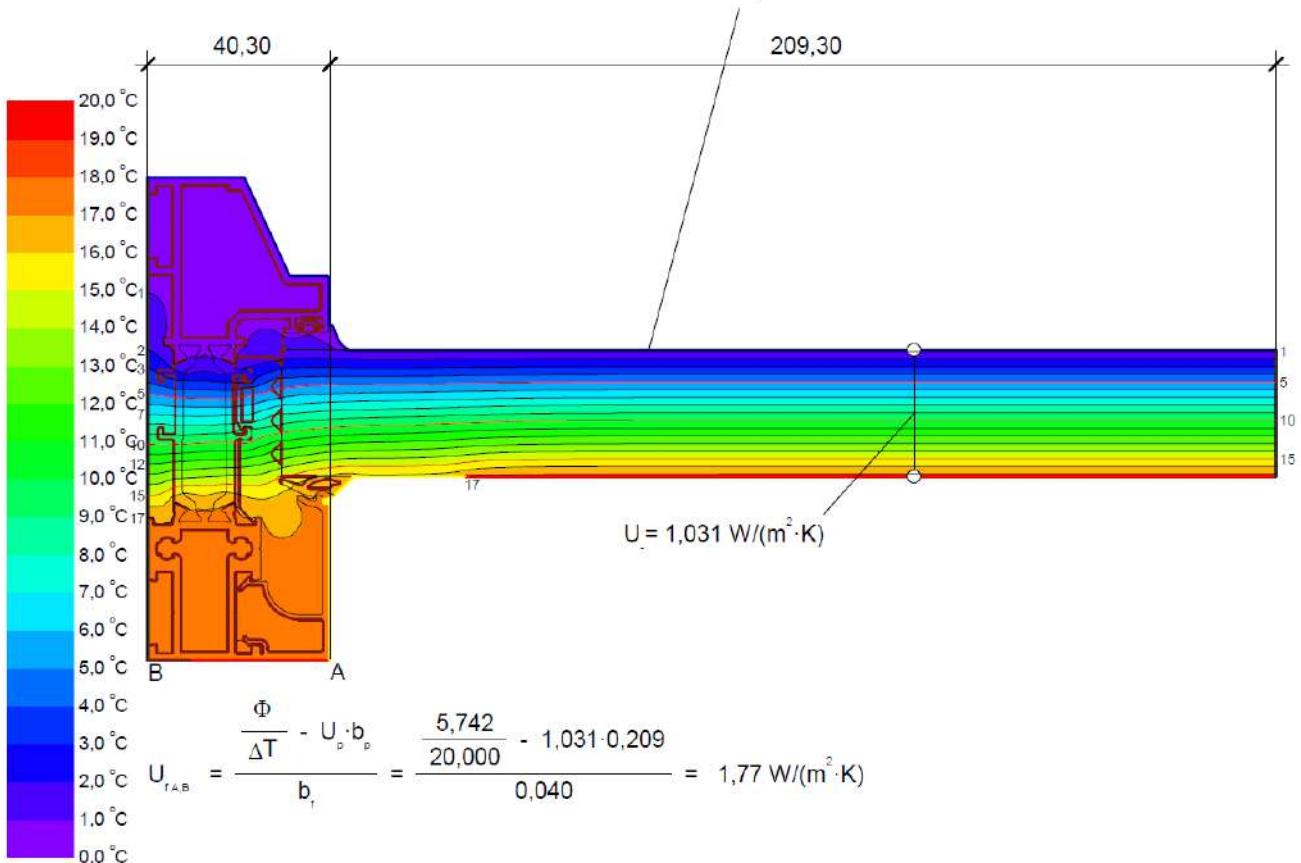
İÇ ORTAM SICAKLIĞI : 20°C

(ROOM TEMPERATURE)

BAĞIL NEM : %50

(RELATIVE HUMIDITY)

$$\Phi = -5,742 \text{ W/m}$$



Material	$\lambda[\text{W}/(\text{m}\cdot\text{K})]$	ϵ	Boundary Condition	$q[\text{W}/\text{m}^2]$	$\theta[\text{°C}]$	$R[(\text{m}^2\cdot\text{K})/\text{W}]$	ϵ
Aluminium (Si Alloys)	160.000	0,900	Epsilon 0.9			0,040	0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900	Exterior, frame		0,000	0,040	
Panel	0,035	0,900	Interior, frame, normal	20,000	20,000	0,130	
Polyamide 6.6 with 25% glass fibre	0,300	0,900	Interior, frame, reduced	20,000	20,000	0,200	
Polyethylene LD, low (Cam Altı Yalıtım)	0,014	0,900	Symmetry/Model section	0,000			
Unventilated air cavity	anisotropic						

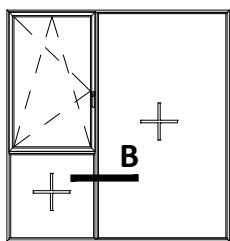
* EN 10077-2 standardına göre; iç ortam sıcaklığı 20°C, dış ortam sıcaklığı 0°C ve bağıl nem %50 olarak alınmıştır.
As EN 10077-2 standard; room temperature is 20°C, outer temperature is 0°C and relative humidity is %50.

Detaylı bilgi için, lütfen termal hesap raporlarını isteyiniz. / For further information, please ask for the reports.

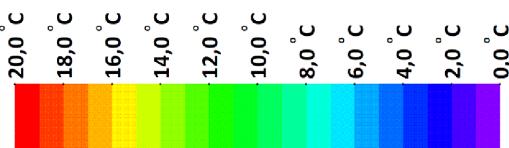
FERMOSA

SYSTEM

SMARTNESS 37 HINGED System



İÇE AÇILIR BİNİLİ PENCERE INWARD OPENING STEP WINDOW



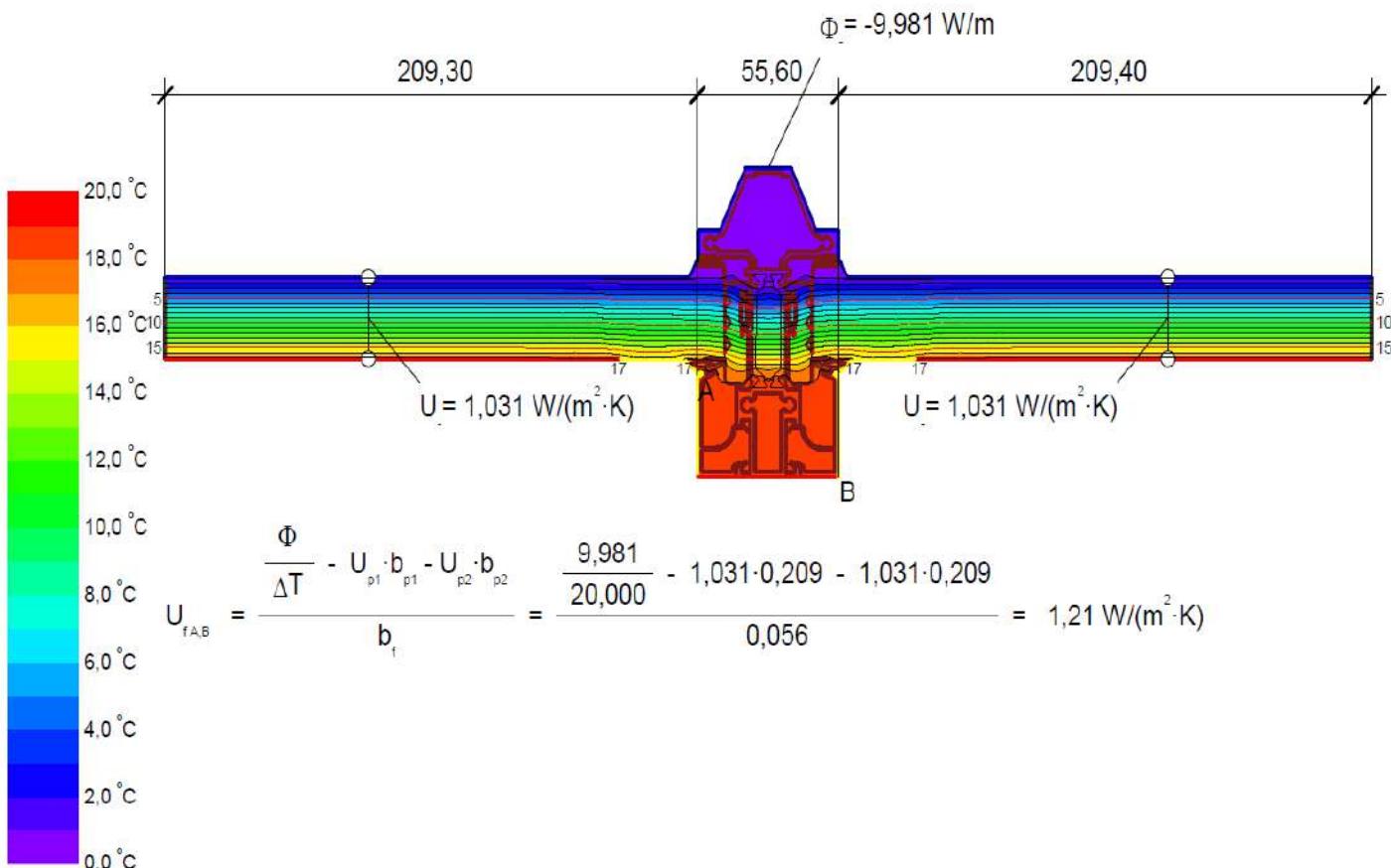
TERMAL HESAP KOŞULLARI

THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI : 0°C
(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI : 20°C
(ROOM TEMPERATURE)

BAĞIL NEM : %50
(RELATIVE HUMIDITY)



Material	$\lambda [\text{W}/(\text{m} \cdot \text{K})]$	ϵ	Boundary Condition	$q [\text{W}/\text{m}^2]$	$\theta [{}^\circ\text{C}]$	$R [(\text{m}^2 \cdot \text{K})/\text{W}]$	ϵ
Aluminum (Si Alloys)	160,000	0,900	Epsilon 0,9			0,000	0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900	Exterior, frame			0,000	0,040
Panel	0,035	0,900	Interior, frame, normal		20,000	0,130	
Polyamid 6,6 with 25% glass fibre	0,300	0,900	Interior, frame, reduced		20,000	0,200	
Polyethylene LD, low (Cam Altı Yalıtım)	0,014	0,900	Symmetry/Model section		0,000		
Unventilated air cavity		anisotropic					

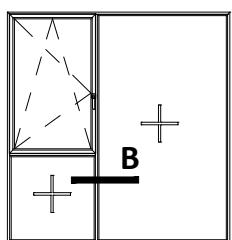
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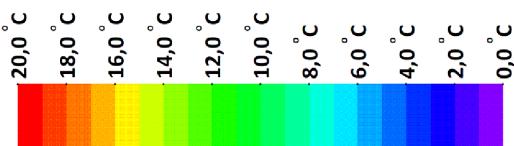
FERMOSA

SYSTEM

SMARTNESS 37 HINGED System



İÇE AÇILIR BİNİLİ PENCERE INWARD OPENING STEP WINDOW

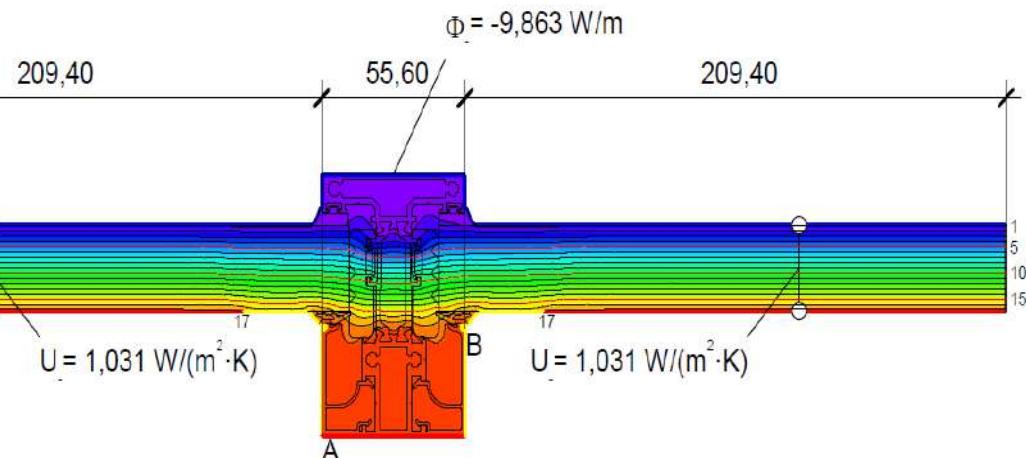


TERMAL HESAP KOŞULLARI THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI : 0°C
(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI : 20°C
(ROOM TEMPERATURE)

BAĞIL NEM : %50
(RELATIVE HUMIDITY)



$$U_{f,A,B} = \frac{\frac{\Phi}{\Delta T} - U_{p1} \cdot b_{p1} - U_{p2} \cdot b_{p2}}{b_f} = \frac{\frac{9,863}{20,000}}{0,056} = 1,10 \text{ W/(m}^2\text{·K)}$$

Material	$\lambda[W/(m·K)]$
Aluminium (Si Alloys)	160.000
EPDM (ethylene propylene diene monomer)	0,250
Panel	0,035
Polyamid 6.6 with 25% glass fibre	0,300
Polyethylene LD, low (Cam Altı Yalıtım)	0,014
Undefined Material	0,010

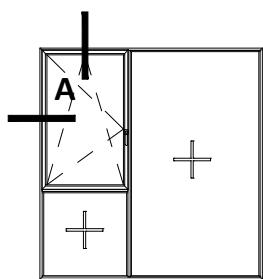
Boundary Condition	$q[W/m^2]$	$\theta[^\circ C]$	$R[(m^2·K)/W]$
Exterior, frame	0,000	0,040	
Interior, frame, normal	20,000	0,130	
Interior, frame, reduced	20,000	0,200	
Symmetry/Model section	0,000		

* EN 10077-2 standardına göre; iç ortam sıcaklığı 20°C, dış ortam sıcaklığı 0°C ve bağıl nem %50 olarak alınmıştır.
As EN 10077-2 standard; room temperature is 20°C, outer temperature is 0°C and relative humidity is %50.

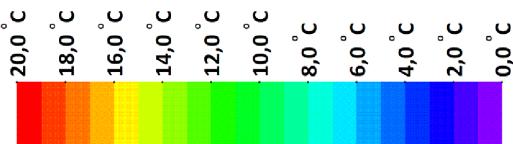
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FERMOSA SYSTEM

SMARTNESS 37 HINGED System



İÇE AÇILIR BİNİLİ PENCERE
INWARD OPENING STEP WINDOW



TERMAL HESAP KOŞULLARI

THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI : 0°C

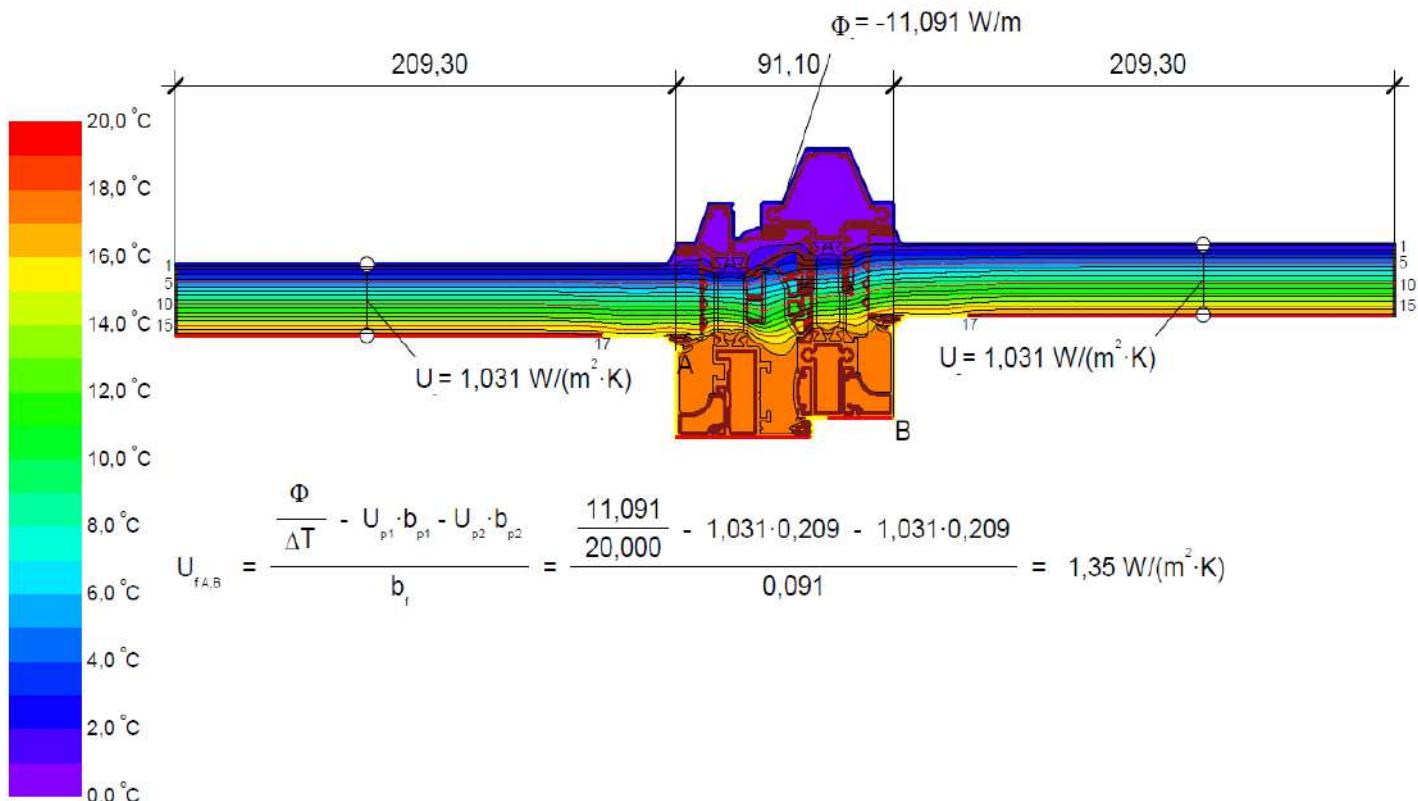
(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI : 20°C

(ROOM TEMPERATURE)

BAĞIL NEM : %50

(RELATIVE HUMIDITY)



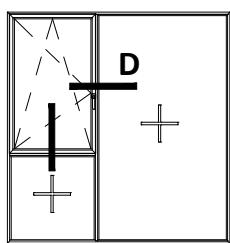
Material	$\lambda[\text{W}/(\text{m}\cdot\text{K})]$	ε	Boundary Condition	$q[\text{W}/\text{m}^2]$	$\theta[\text{°C}]$	$R[(\text{m}^2\cdot\text{K})/\text{W}]$	ε
Aluminium (Si Alloys)	160,000	0,900	Epsilon 0,9				0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900	Exterior, frame		0,000	0,040	
Panel	0,035	0,900	Interior, frame, normal		20,000	0,130	
Polyamid 6,6 with 25% glass fibre	0,300	0,900	Interior, frame, reduced		20,000	0,200	
Polyethylene LD, low (Cam Altı Yalıtım)	0,014	0,900	Symmetry/Model section	0,000			
Polyethylene LD, low (Orta Tozluk Yalıtım) (1)	0,018	0,900	anisotropic				
Unventilated air cavity							

* EN 10077-2 standardına göre; iç ortam sıcaklığı 20°C, dış ortam sıcaklığı 0°C ve bağıl nem %50 olarak alınmıştır.
As EN 10077-2 standard; room temperature is 20°C, outer temperature is 0°C and relative humidity is %50.

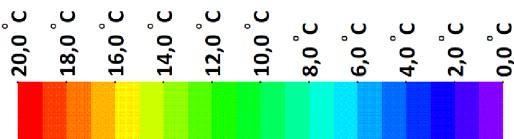
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FERMOSA
SYSTEM

SMARTNESS 37 HINGED System



İÇE AÇILIR BİNİLİ PENCERE
INWARD OPENING STEP WINDOW



TERMAL HESAP KOŞULLARI

THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI : 0°C

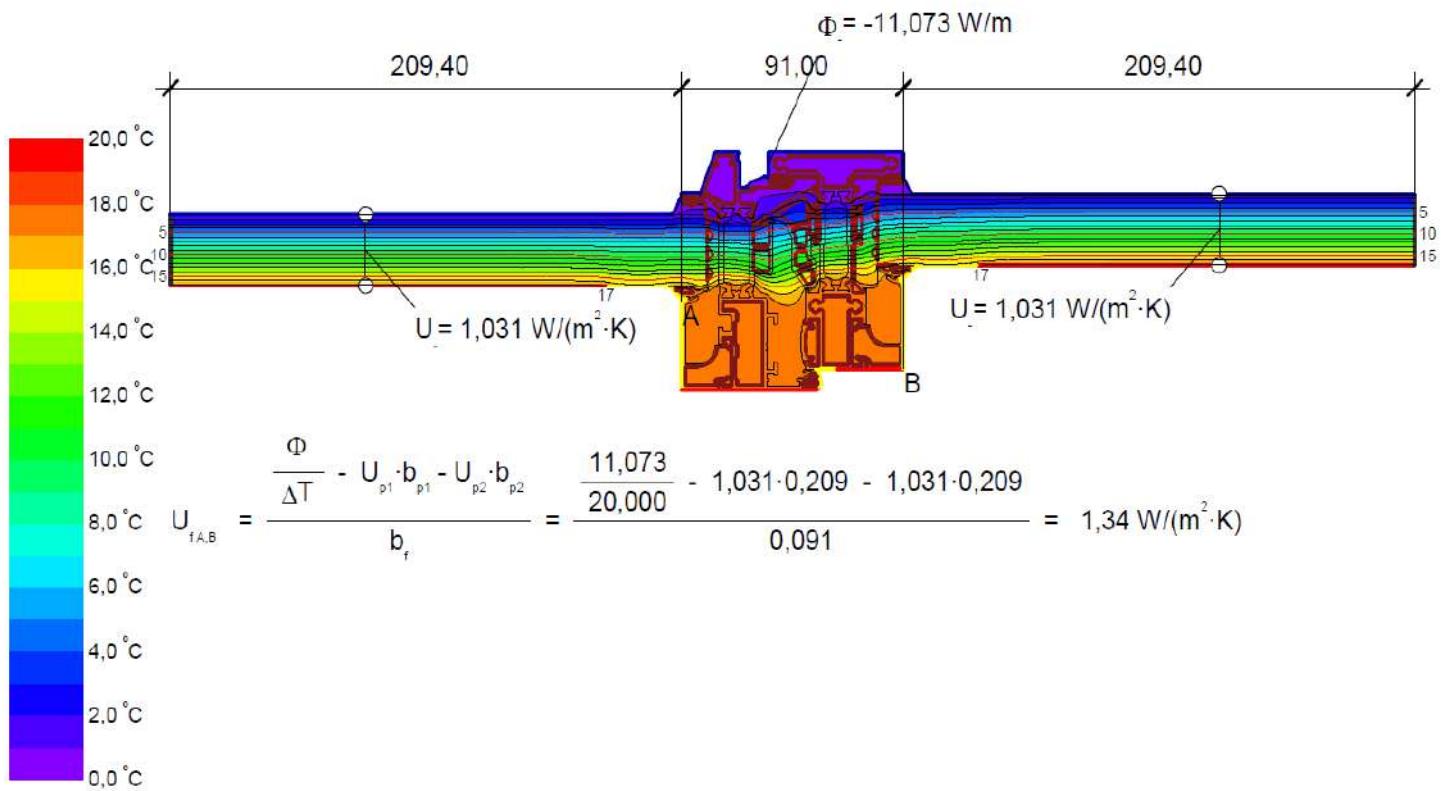
(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI : 20°C

(ROOM TEMPERATURE)

BAĞIL NEM : %50

(RELATIVE HUMIDITY)



Material	$\lambda[\text{W}/(\text{m}\cdot\text{K})]$	ε	Boundary Condition	$q[\text{W}/\text{m}^2]$	$\theta[\text{°C}]$	$R[(\text{m}^2\cdot\text{K})/\text{W}]$	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		
Panel	0,035	0,900	Interior, frame, normal	20,000	0,130		
Polyamide 6,6 with 25% glass fibre	0,300	0,900	Interior, frame, reduced	20,000	0,200		
Polyethylene LD, low (Cam Altı Yalıtım)	0,014	0,900	Symmetry/Model section	0,000			
Polyethylene LD, low (Orta Tozluk Yalıtım) (1)	0,018	0,900	anisotropic				

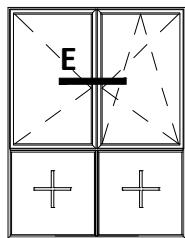
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FERMOSA

SYSTEM

SMARTNESS 37 HINGED System



TERMAL HESAP KOŞULLARI

THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI : 0°C

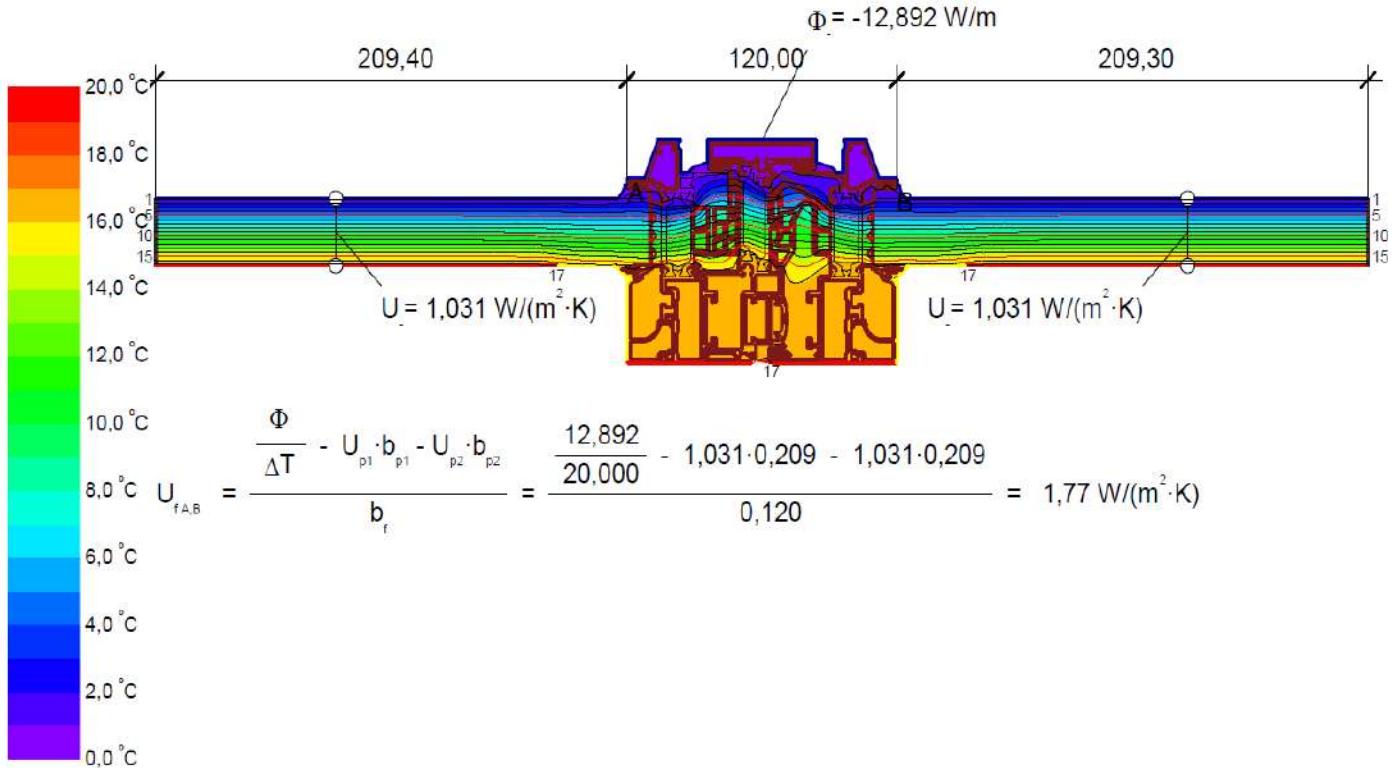
(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI : 20°C

(ROOM TEMPERATURE)

BAĞIL NEM : %50

(RELATIVE HUMIDITY)



Material	$\lambda [\text{W}/(\text{m} \cdot \text{K})]$	ϵ	Boundary Condition	$q [\text{W}/\text{m}^2]$	$\theta [^\circ\text{C}]$	$R [(\text{m}^2 \cdot \text{K})/\text{W}]$	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	
Panel	0,035	0,900	Interior, frame, normal		20,000	0,130	
Polyamid 6,6 with 25% glass fibre	0,300	0,900	Interior, frame, reduced		20,000	0,200	
Polyethylene LD, low (CamAltı Yalıtım)	0,014	0,900	Symmetry/Model section		0,000		
Polyethylene LD, low (Çift Tozluuk Yalıtım) (1)	0,018	0,900					
Slightly ventilated air cavity		anisotropic					
Unventilated air cavity		anisotropic					

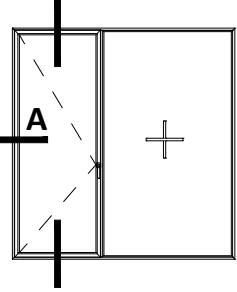
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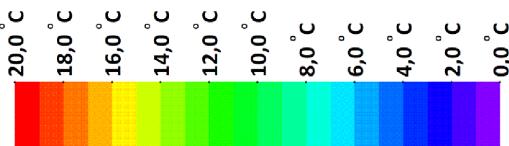
FERMOSA

SYSTEM

SMARTNESS 37 HINGED System



İÇE AÇILIR BİNİLİ KAPI INWARD OPENING STEP DOOR



TERMAL HESAP KOŞULLARI

THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI : 0°C

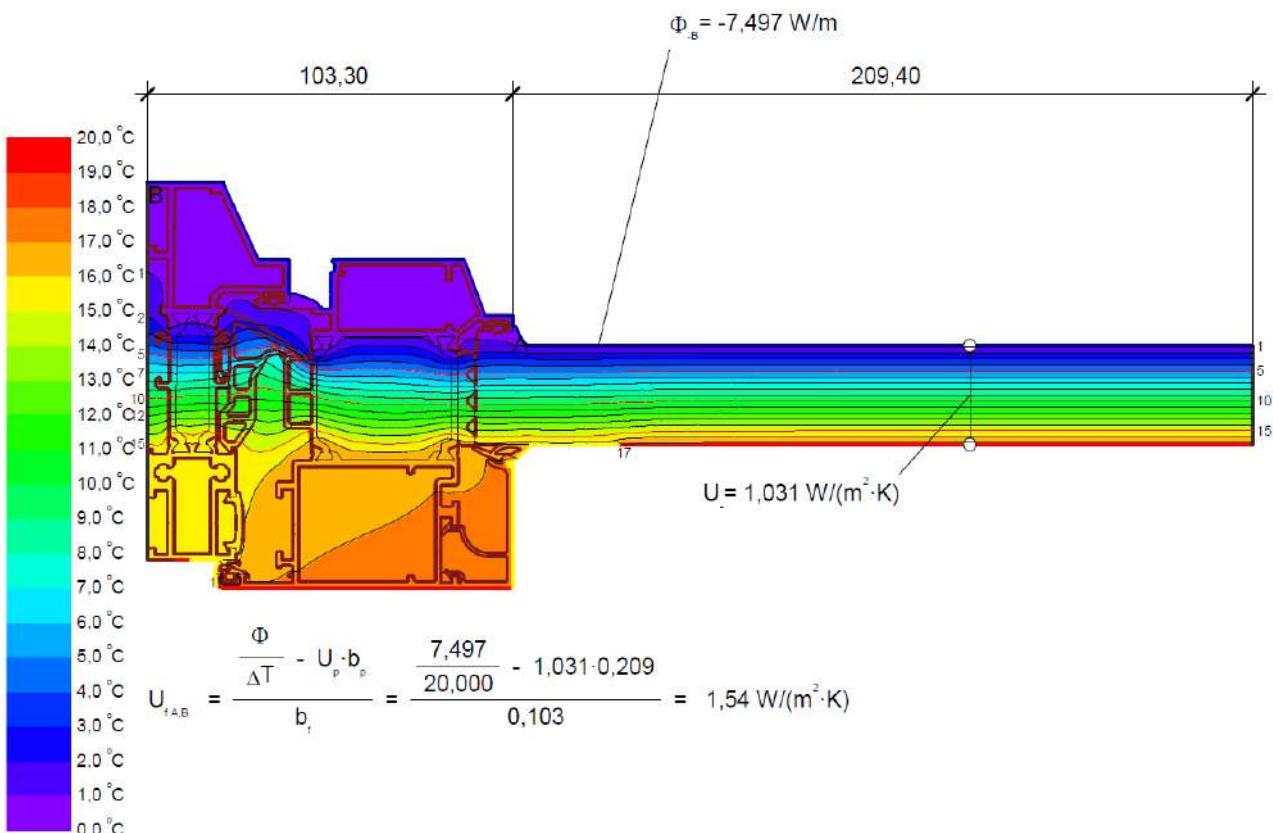
(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI : 20°C

(ROOM TEMPERATURE)

BAĞIL NEM : %50

(RELATIVE HUMIDITY)



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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	
Panel	0,035	0,900	Interior, frame, normal		20,000	0,130	
Polyamid 6,6 with 25% glass fibre	0,300	0,900	Interior, frame, reduced		20,000	0,200	
Polyethylene LD, low (Cam Altı Yalıtım)	0,014	0,900	Symmetry/Model section		0,000		
Polyethylene LD, low (Orta Tozluğ Yalıtım) (1)	0,018	0,900					
Unventilated air cavity	anisotropic						

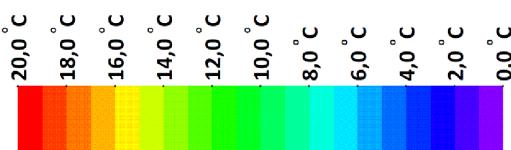
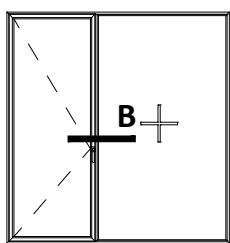
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Detailed information, please ask for the reports. / For further information, please ask for the reports.

FERMOSA

SYSTEM

SMARTNESS 37 HINGED System



TERMAL HESAP KOŞULLARI

THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI : 0°C

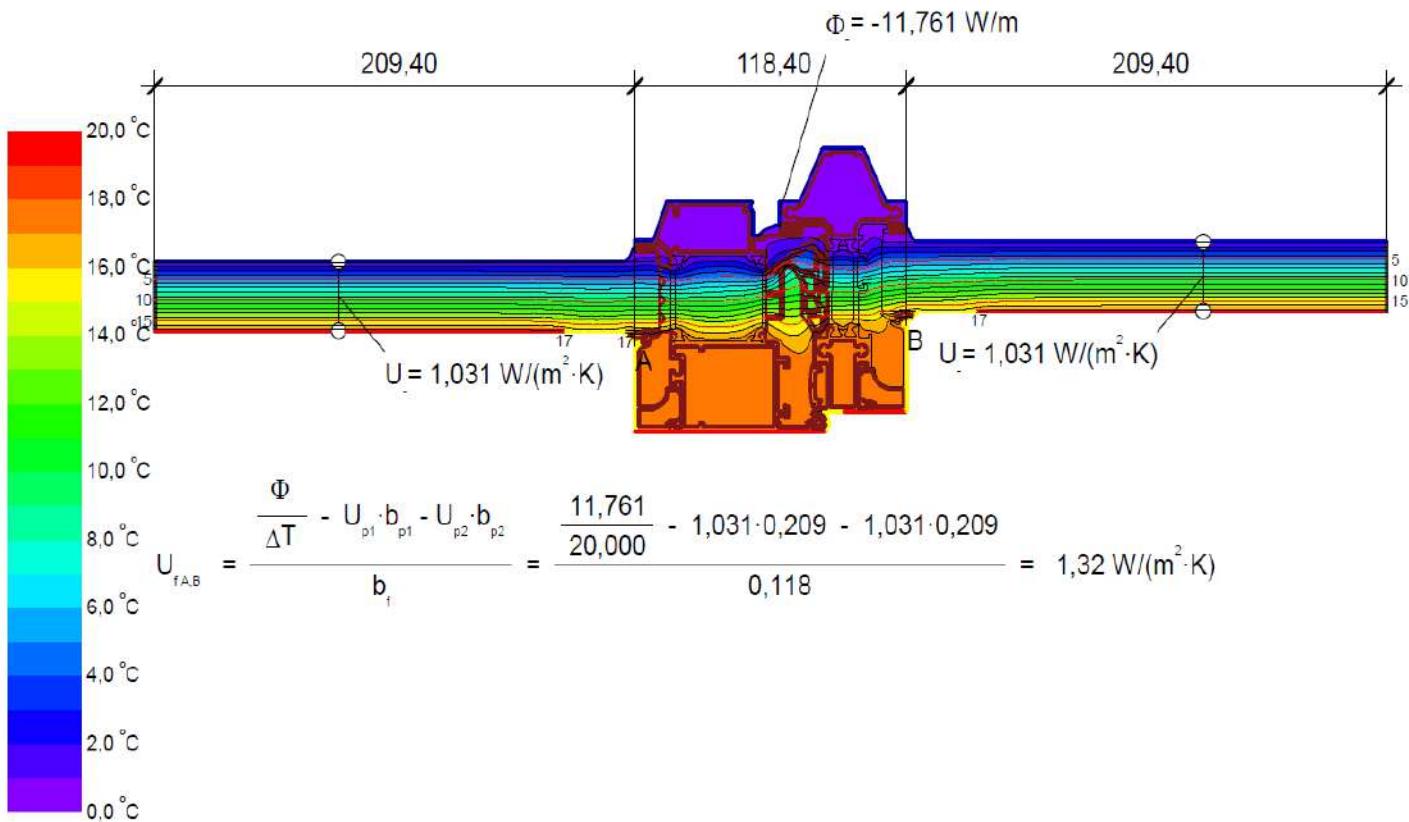
(OUTER TEMPERATURE)

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(ROOM TEMPERATURE)

BAĞIL NEM : %50

(RELATIVE HUMIDITY)



Material	$\lambda [\text{W}/(\text{m}\cdot\text{K})]$	ϵ	Boundary Condition	$q [\text{W}/\text{m}^2]$	$\theta [\text{°C}]$	$R [(\text{m}^2\cdot\text{K})/\text{W}]$	ϵ
Aluminum (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		
Panel	0,035	0,900	Interior, frame, normal	20,000	0,130		
Polyamide 6,6 with 25% glass fibre	0,300	0,900	Interior, frame, reduced	20,000	0,200		
Polyethylene LD, low (Cam Altı Yalıtım)	0,014	0,900	Symmetry/Model section	0,000			
Polyethylene LD, low (Orta Tozluk Yalıtım) (1)	0,018	0,900					
Unventilated air cavity							

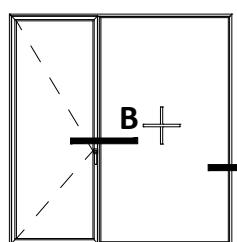
* EN 10077-2 standardına göre; iç ortam sıcaklığı 20°C, dış ortam sıcaklığı 0°C ve bağıl nem %50 olarak alınmıştır.
As EN 10077-2 standard; room temperature is 20°C, outer temperature is 0°C and relative humidity is %50.

Detaylı bilgi için, lütfen termal hesap raporlarını isteyiniz. / For further information, please ask for the reports.

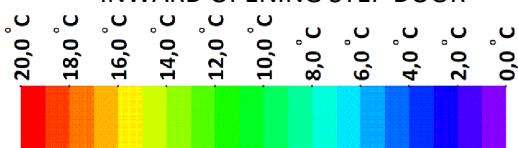
FERMOSA

SYSTEM

SMARTNESS 37 HINGED System



İÇE AÇILIR BİNİLİ KAPI INWARD OPENING STEP DOOR



TERMAL HESAP KOŞULLARI

THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI : 0°C

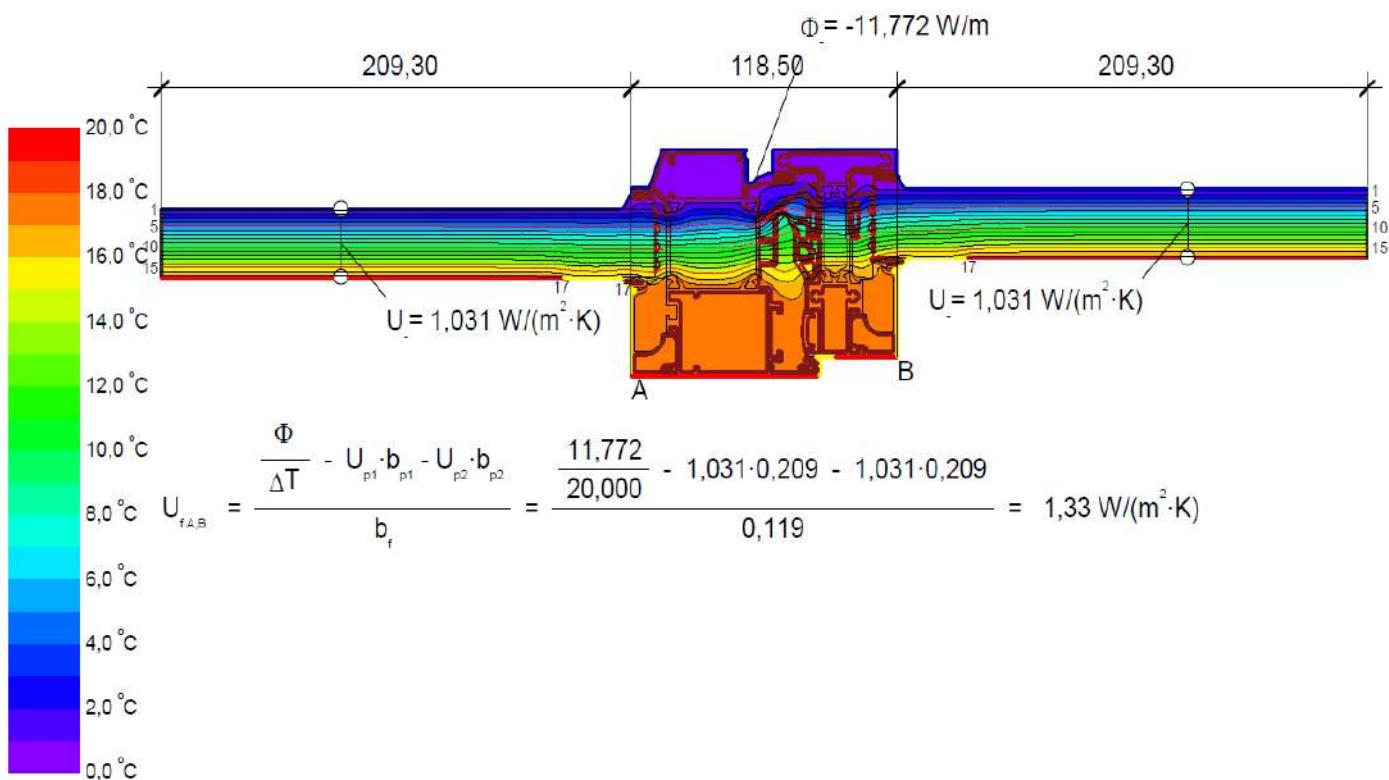
(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI : 20°C

(ROOM TEMPERATURE)

BAĞIL NEM : %50

(RELATIVE HUMIDITY)



Material	$\lambda[\text{W/(m·K)}]$	ε	Boundary Condition	$q[\text{W/m}^2]$	$\theta[\text{°C}]$	$R[(\text{m}^2\text{·K})/\text{W}]$	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	
Panel	0.035	0.900	Interior, frame, normal		20,000	0.130	
Polyamid 6.6 with 25% glass fibre	0.300	0.900	Interior, frame, reduced		20,000	0.200	
Polyethylene LD, low (Cam Altı Yalıtım)	0.014	0.900	Symmetry/Model section		0,000		
Polyethylene LD, low (Orta Tozluk Yalıtım) (1)	0.018	0.900					
Unventilated air cavity		anisotropic					

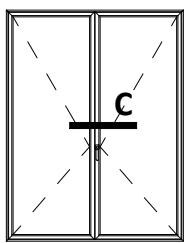
* EN 10077-2 standardına göre; iç ortam sıcaklığı 20°C, dış ortam sıcaklığı 0°C ve bağıl nem %50 olarak alınmıştır.
As EN 10077-2 standard; room temperature is 20°C, outer temperature is 0°C and relative humidity is %50.

Detaylı bilgi için, lütfen termal hesap raporlarını isteyiniz. / For further information, please ask for the reports.

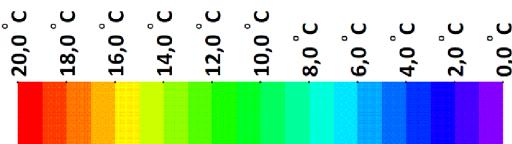
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SMARTNESS 37 HINGED System



İÇE AÇILIR BİNİLİ KAPI INWARD OPENING STEP DOOR



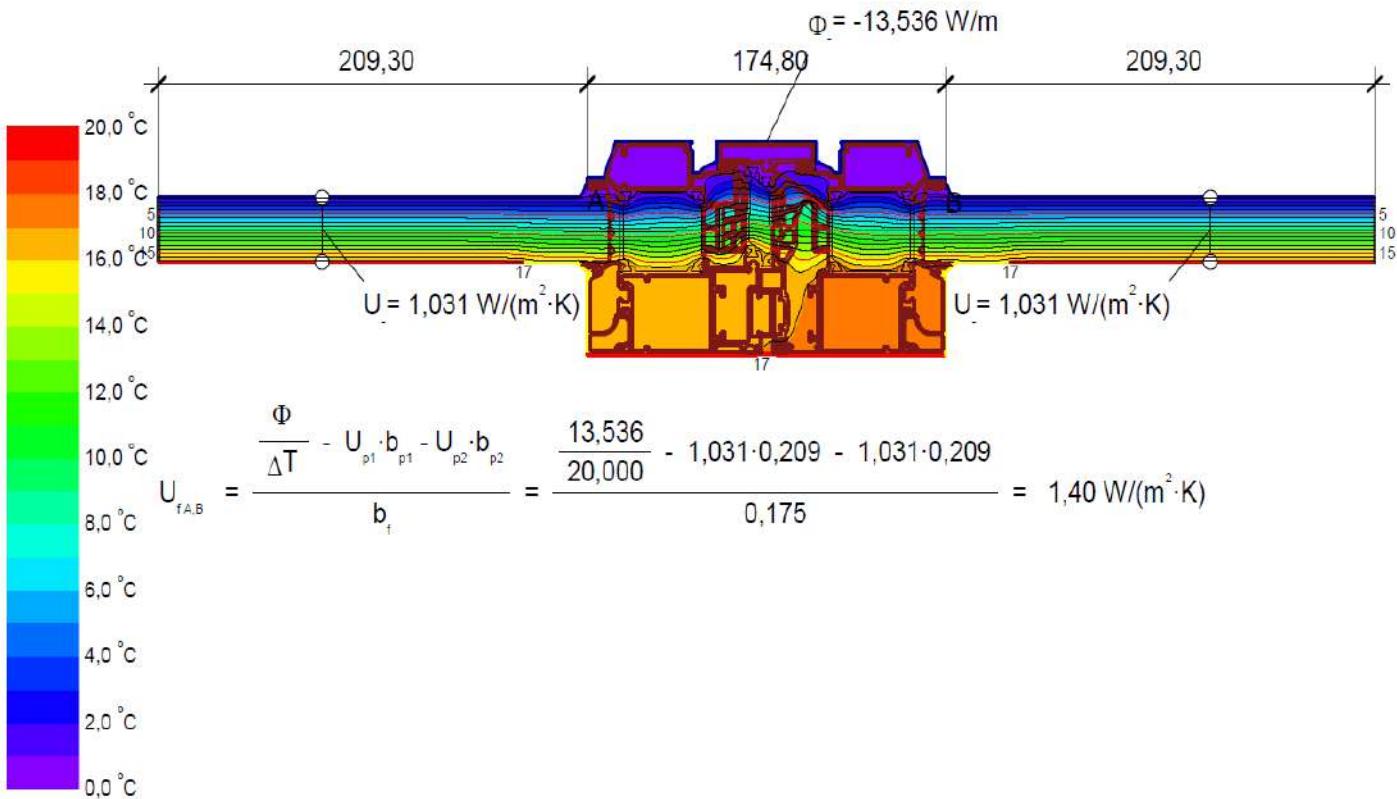
TERMAL HESAP KOŞULLARI

THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI : 0°C
(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI : 20°C
(ROOM TEMPERATURE)

BAĞIL NEM
(RELATIVE HUMIDITY) : %50



Material	$\lambda [\text{W}/(\text{m} \cdot \text{K})]$	ϵ	Boundary Condition	$q [\text{W}/\text{m}^2]$	$\theta [{}^\circ\text{C}]$	$R [(\text{m}^2 \cdot \text{K})/\text{W}]$	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		
Panel	0,035	0,900	Interior, frame, normal	20,000	0,130		
Polyamide 6.6 with 25% glass fibre	0,300	0,900	Interior, frame, reduced	20,000	0,200		
Polyethylene LD, low (Cam Altı Yalıtım)	0,014	0,900	Symmetry/Model section	0,000			
Polyethylene LD, low (Orta Tozluğ Yalıtım) (1)	0,018	0,900					
Slightly ventilated air cavity	anisotropic						
Unventilated air cavity	anisotropic						

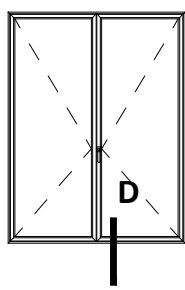
* EN 10077-2 standardına göre; iç ortam sıcaklığı 20°C, dış ortam sıcaklığı 0°C ve bağıl nem %50 olarak alınmıştır.
As EN 10077-2 standard; room temperature is 20°C, outer temperature is 0°C and relative humidity is %50.

Detaylı bilgi için, lütfen termal hesap raporlarını isteyiniz. / For further information, please ask for the reports.

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SMARTNESS 37 HINGED System



TERMAL HESAP KOŞULLARI

THERMAL CALCULATION CONDITIONS

DIŞ ORTAM SICAKLIĞI : 0°C

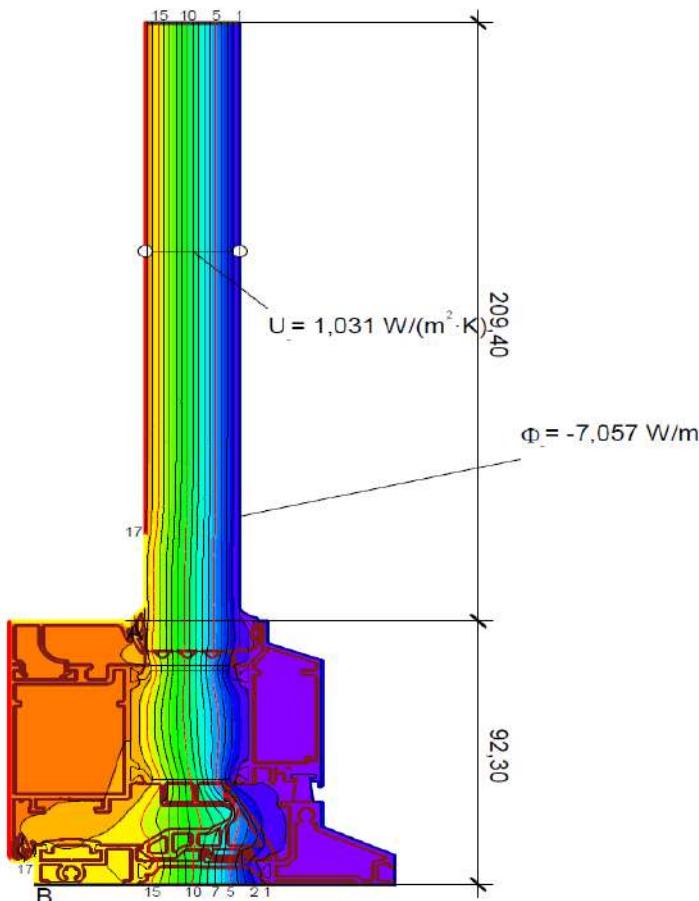
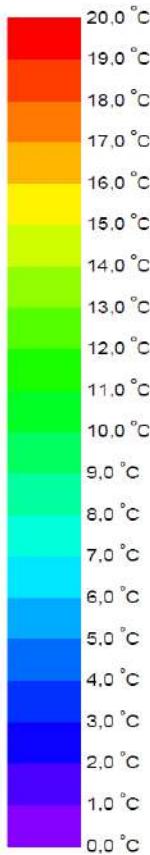
(OUTER TEMPERATURE)

İÇ ORTAM SICAKLIĞI : 20°C

(ROOM TEMPERATURE)

BAĞIL NEM : %50

(RELATIVE HUMIDITY)



$$U_{\text{f},A,B} = \frac{\Phi}{\Delta T} = \frac{U_p \cdot b_p}{b_f} = \frac{7,057}{20,000} = \frac{1,031 \cdot 0,209}{0,092} = 1,48 \text{ W}/(\text{m}^2 \cdot \text{K})$$

Material

Aluminum (Si Alloys)	λ[W/(m·K)]	ε
EPDM (ethylene propylene diene monomer)	0,250	0,900
Kıl Fili	0,250	0,900
Panel	0,035	0,900
Polyamide 6,6 with 25% glass fibre	0,300	0,900
Polyethylene LD, low (Cam Altı Yalıtım)	0,014	0,900
Polyethylene LD, low (Orta Tozluk Yalıtım) (1)	0,018	0,900
Slightly ventilated air cavity	anisotropic	
Unventilated air cavity	anisotropic	

Boundary Condition

Boundary Condition	q[W/m²]	θ[°C]	R[(m²·K)/W]	ε
Epsilon 0,9				0,900
Exterior, frame		0,000	0,040	
Interior, frame, normal		20,000	0,130	
Interior, frame, reduced		20,000	0,200	
Symmetry/Model section	0,000			

* EN 10077-2 standardına göre; iç ortam sıcaklığı 20°C, dış ortam sıcaklığı 0°C ve bağıl nem %50 olarak alınmıştır.
As EN 10077-2 standard; room temperature is 20°C, outer temperature is 0°C and relative humidity is %50.

Detaylı bilgi için, lütfen termal hesap raporlarını isteyiniz. / For further information, please ask for the reports.

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SYSTEM

SMARTNESS 37 HINGED System

YÜKSEK PERFORMANSLI MENTEŞELİ SİSTEM

HIGH PERFORMANCE HINGED SYSTEM



TEKNİK ÖZELLİKLER

TECHNICAL PROPERTIES

KASA DERİNLİĞİ / FRAME DEPTH :	106,8mm
KANAT DERİNLİĞİ / VENT DEPTH :	93 mm
PROFİL ET KALINLIĞI / PROFILE WALL THICKNESS :	1,8 mm-2mm
MAX. CAM KALINLIĞI / MAX. GLASS THICKNESS :	28 mm 56mm
ISI BARIYERLERİ / INSULATION BARS :	39 mm 35mm
ISI YALITIM DEĞERİ (Uf)-EN1077-2 / THERMAL INSULATION VALUE (Uf) :	(Uf): < 1,36-2,71 W/m ² K

KULLANIM SEÇENEKLERİ

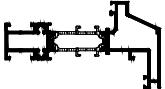
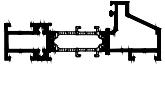
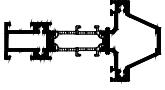
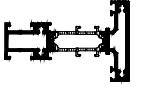
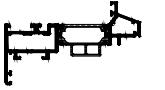
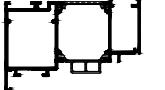
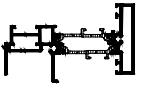
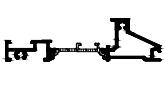
APPLICATION ALTERNATIVES

	PENCERE WINDOW	KAPI DOOR
İÇE AÇILIR BİNİLİ / INWARD OPENING STEP :	•	•
ÇİFT EKSEN / TILT&TURN :	•	•

TEKNİK ÖZELLİKLER / TECHNICAL PROPERTIES

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SMARTNESS 37 HINGED System

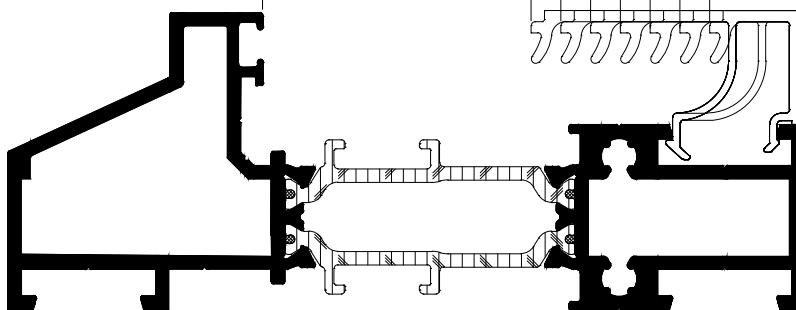
PROFİL NUM. PROFILE NO.	ÇİZİM DRAWING	TANIM DESCRIPTION	STATİK J_x (cm ⁴)	AĞIRLIK WEIGHT (kg/m)	SAYFA PAGE
SM-3702		KASA PROFİLİ SHAPED FRAME PROFILE	93,34	2,017	19
SM-3701		KASA PROFİLİ SHAPED FRAME PROFILE	76,64	1,815	19
SM-3704		TAKVİYELİ ORTA KAYIT PROFİLİ REINFORCEMENT TRANSOM PROFILE	79,51	2,022	20
SM-3705		KASA İÇİ ORTA KAYIT PROFİLİ TRANSOM PROFILE FOR FRAME	59,74	1,869	20
SM-3703		İÇE AÇILIR KANAT PROFİLİ VENT PROFILE FOR INWARD OPENING	53,18	1,550	21
SM-3707		İÇE AÇILIR KANAT PROFİLİ VENT PROFILE FOR INWARD OPENING	75,65	1,989	21
SM-3706		ÇİFT KANAT ADAPTÖR PROFİLİ ADAPTER PROFILE FOR DOUBLE VENT	59,83	1,869	20
SM-3708		EŞİK PROFİLİ DOORSTEP PROFILE	-	1,173	21
18586		DEKORATİF PROFİLİ DECORATIVE PROFILE	-	0,535	22
18485		DEKORATİF PROFİLİ DECORATIVE PROFILE	-	0,405	22
18487		DEKORATİF PROFİLİ DECORATIVE PROFILE	-	0,419	22
18484		BAĞLANTI PROFİLİ CONNECTION PROFILE	-	0,338	23
18506		ADAPTÖR PROFİLİ ADAPTER PROFILE	-	0,162	23

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SMARTNESS 37 HINGED System

CAM KALINLIĞINA BAĞLI CAM ÇITASI SEÇİM TABLOSU GLAZING BEAD SELECTION TABLE ACCORDING TO THE GLASS THICKNESS

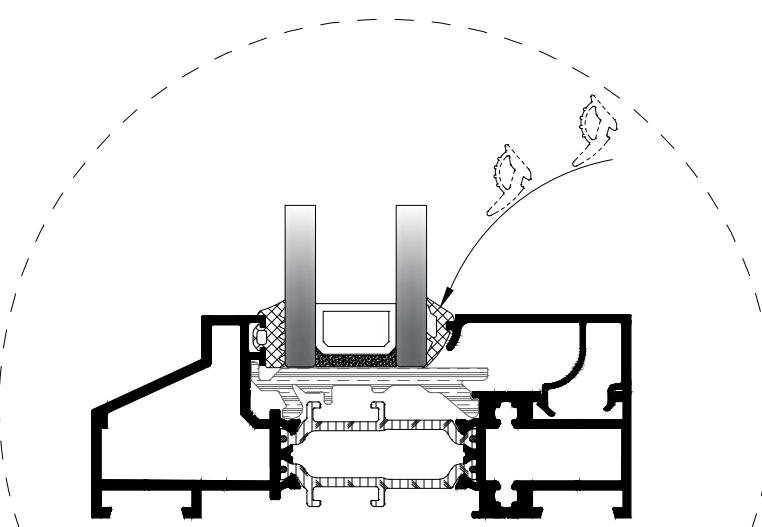
18488	36	36.5
18489	40	32.5
18490	44	28.5
18491	48	24.5
18492	52	20.5
18493	56	16.5
18494	60	12.5



** YUKARIDA GÖRÜLEN PROFİL VE FİTİL İLİŞKİLERİ TEORİKTİR.

THE RELATION BETWEEN PROFILES & GASKETS ARE THEORETICAL AS SEEN ABOVE.

DİS FİTİLLER STANDART EBATTA OLUP 4mm KALINLIĞINDADIR. İÇTEKİ KAMA FİTİLİN BOŞLUĞU İSE, MİNİMUM 3mm MAKSİMUM 6mm OLACAK ŞEKİLDE AYARLANMALIDIR.
THE OUTER GASKET'S DIMENSION ARE STANDARD WITH 4mm THICKNESS. THE INNER GASKET'S SPACE SHOULD BE ADJUSTED BETWEEN 3 - 6mm.



CAM VE PROFİL TOLERANSLARI + VEYA - YÖNDE BERABER ÇALIŞARAK TEORİDE OLMASI

GEREKENDEN BÜYÜK Veya KÜÇÜK BİR FİTİL BOŞLUĞUNA NEDEN OLABİLİR.

THE GLASS AND THE PROFILE TOLERANCES CAN BE WORK AT + OR - DIRECTION TOGETHER. IT CAUSES THE GASKET'S SPACE BIGGER OR SMALLER THAN NORMAL.

İÇ KAMA FİTİLLERİN YERİNE GEÇMESİNDE PROBLEM YAŞANMAMASI İÇİN, ÖNCELİKLE BİR NUMUNE ÜZERİNDE DENENMESİNİ TAVSİYE EDERİZ.

WE ADVISE THAT THE INNER GASKET AND GLAZING BEAD RELATION SHOULD BE CHECKED ON A MOCK-UP BEFORE.

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SMARTNESS 37 HINGED System

sistem profilleri

SYstem profiles

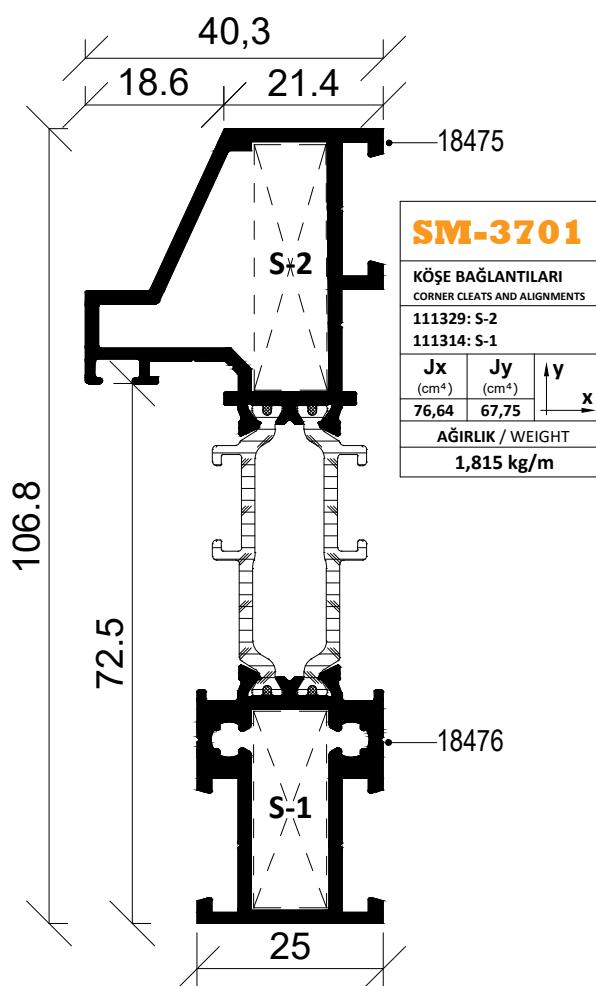
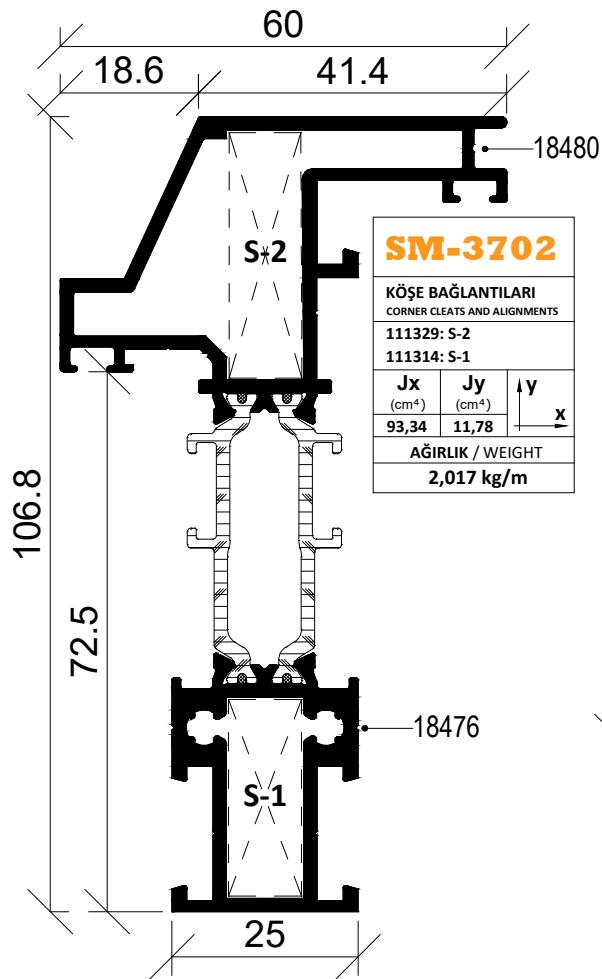
FERMOSA
SYSTEM

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SMARTNESS 37 HINGED System

YALITIMLI SİSTEM PROFİLLERİ

INSULATED SYSTEM PROFILES

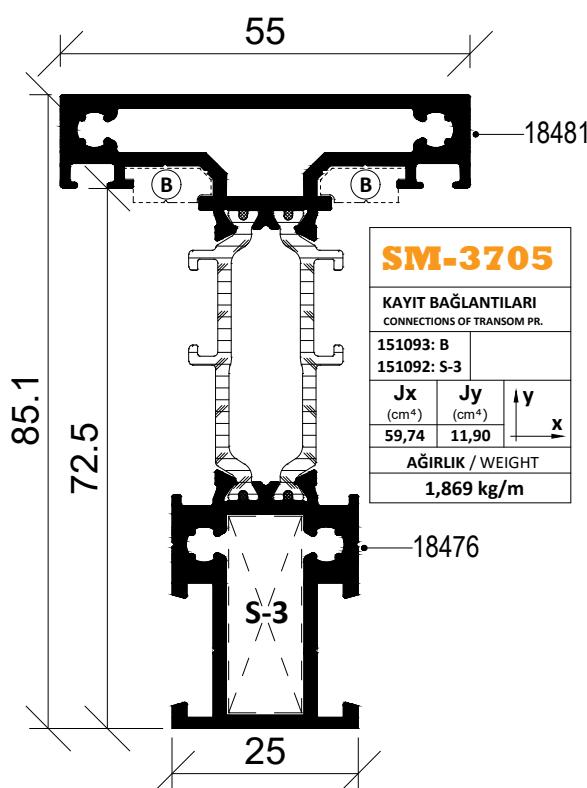
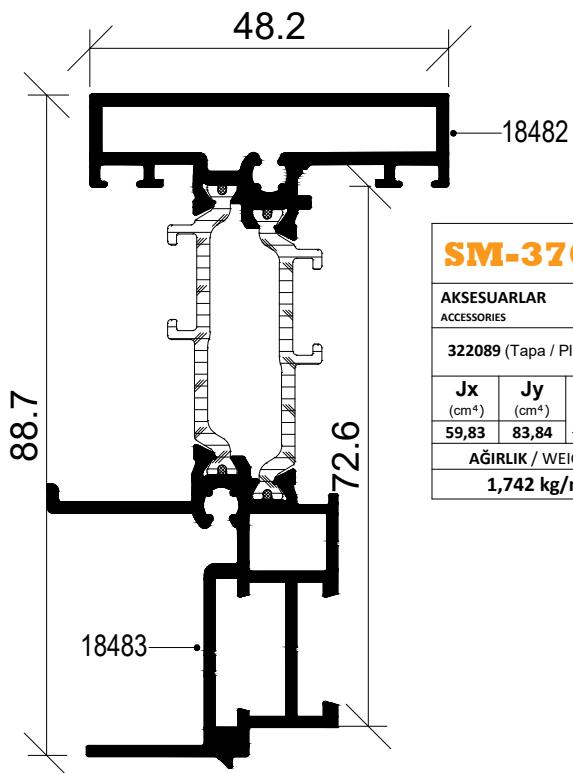
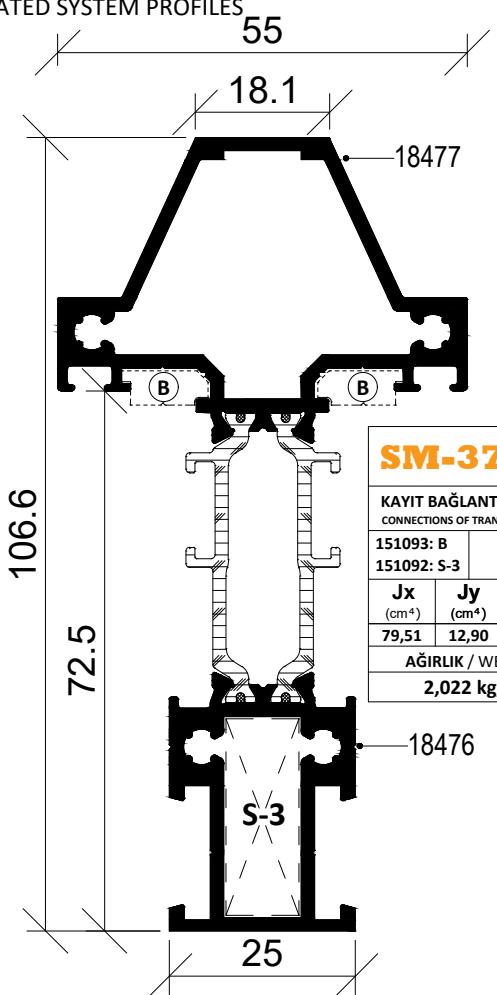


FERMOSA
SYSTEM

SMARTNESS 37 HINGED System

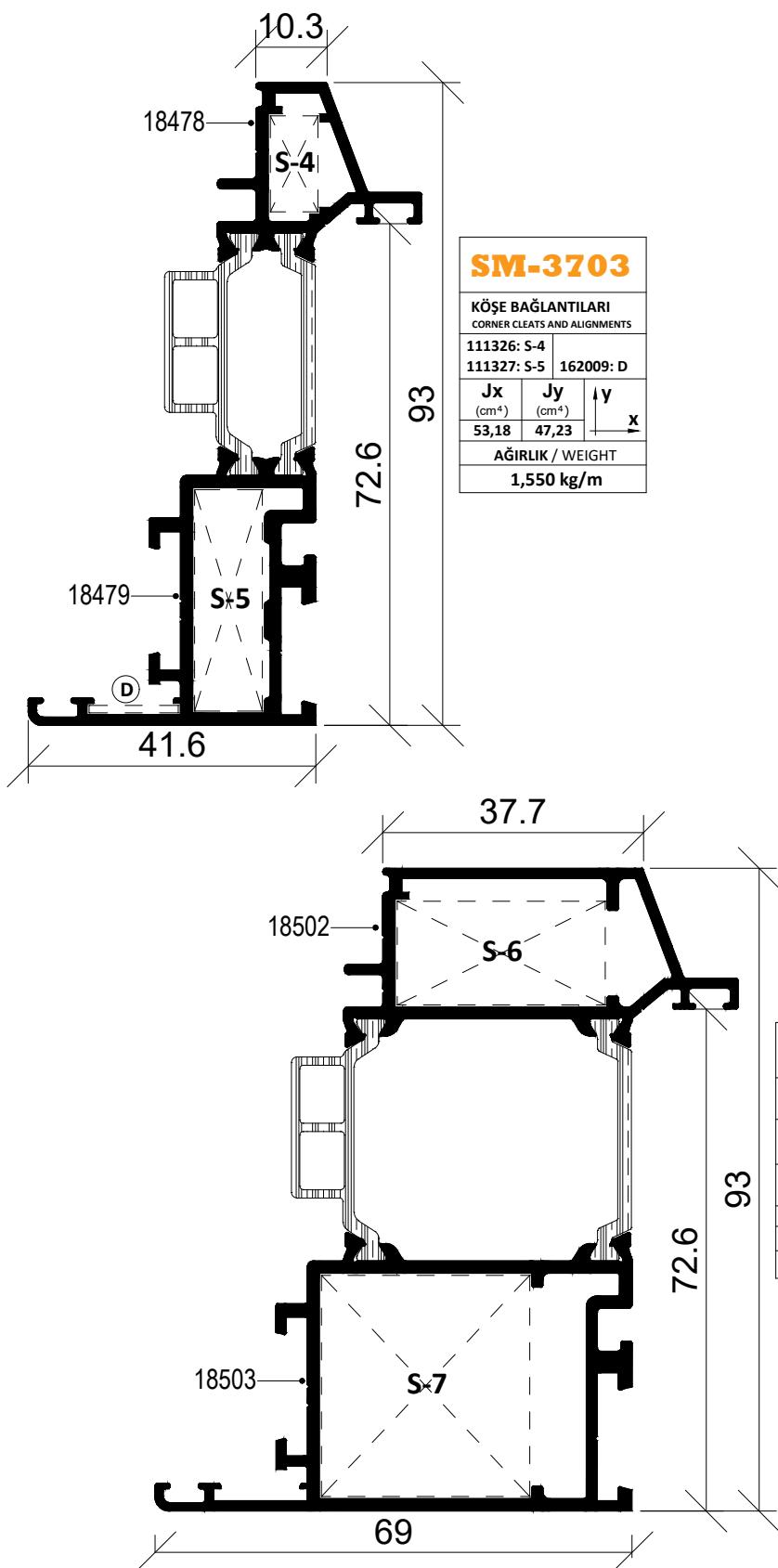
YALITIMLI SİSTEM PROFİLLERİ

INSULATED SYSTEM PROFILES



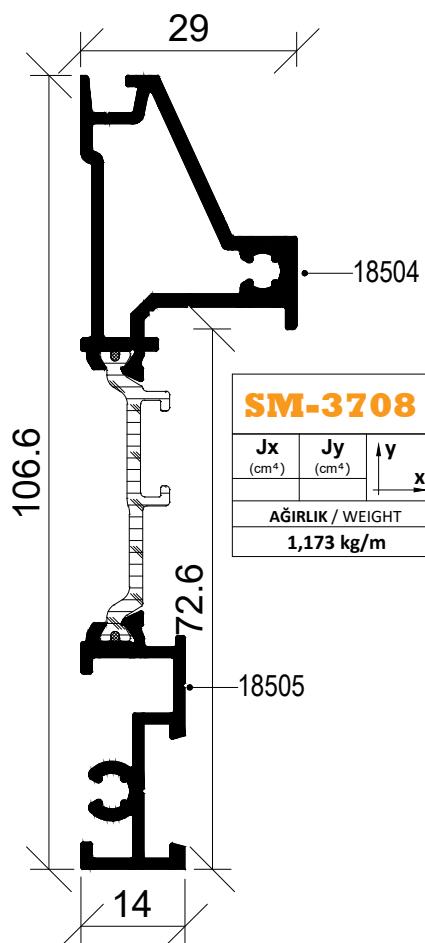
FERMOSA
SYSTEM

SMARTNESS 37 HINGED System



YALITIMLI SİSTEM PROFİLLERİ

INSULATED SYSTEM PROFILES

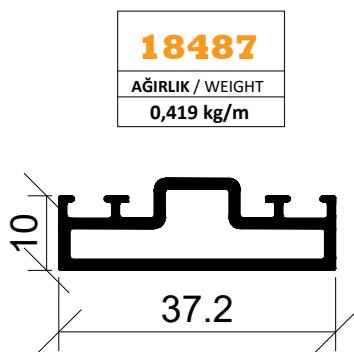
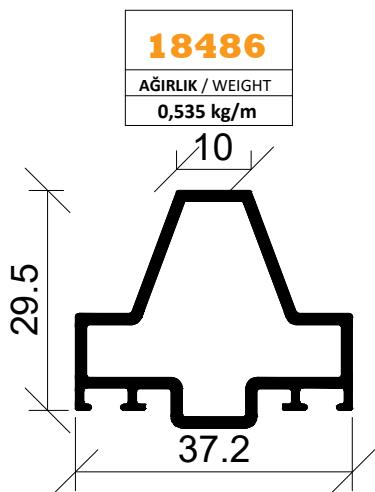
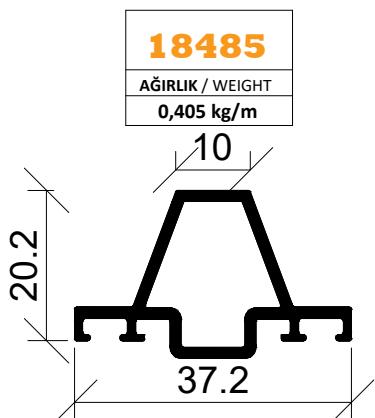


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SMARTNESS 37 HINGED System

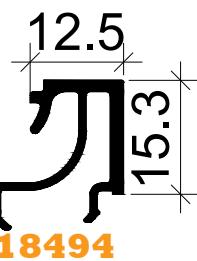
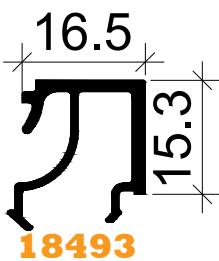
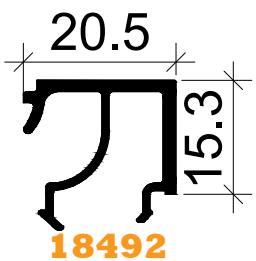
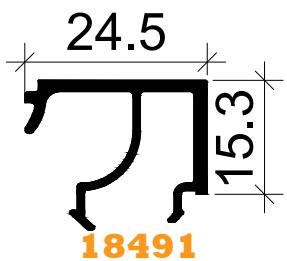
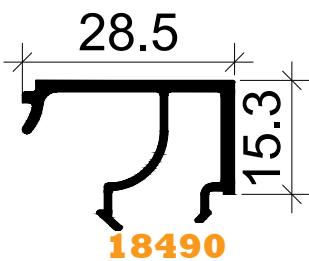
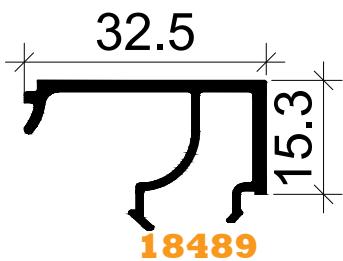
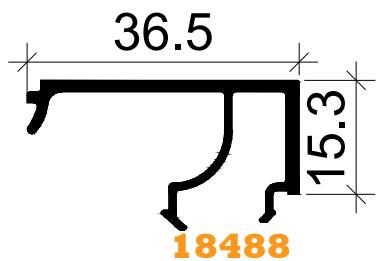
ALÜMİNYUM AKSESUAR PROFİLLERİ

PROFILES OF ALUMINIUM ACCESSORIES



CAM ÇITALARI

GLAZING BEADS

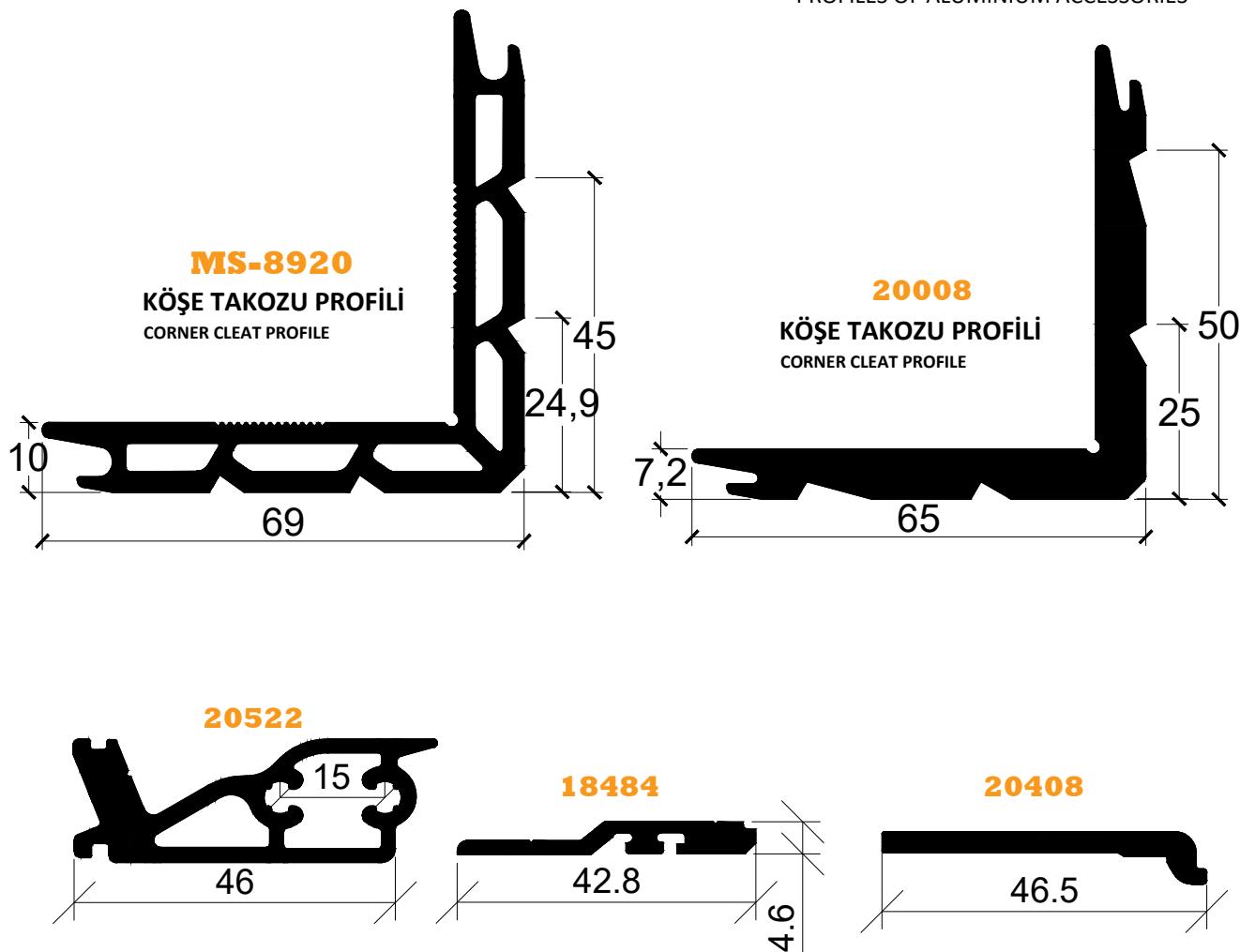


PROFİL NUMARASI PROFILE NO.	AĞIRLIK WEIGHT (kg/m)
18488	0,320
18489	0,306
18490	0,289
18491	0,273
18492	0,257
18493	0,241
18494	0,236

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ALÜMİNYUM AKSESUAR PROFİLLERİ
PROFILES OF ALUMINIUM ACCESSORIES



PROFİL NUMARASI PROFILE NO.	AĞIRLIK WEIGHT (kg/m)
MS-8920	2,115
20008	2,117
20522	1,034
18484	0,338
20408	0,421
18506	0,162
S5671-00	0,145

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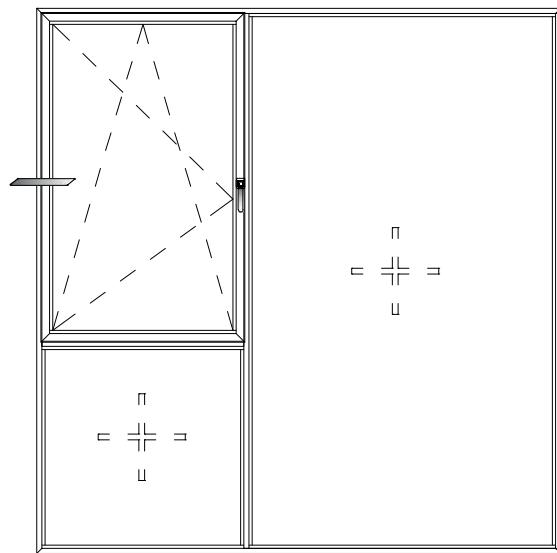
SİSTEM KESİT DETAYLARI

SYSTEM CROSS SECTION DETAILS

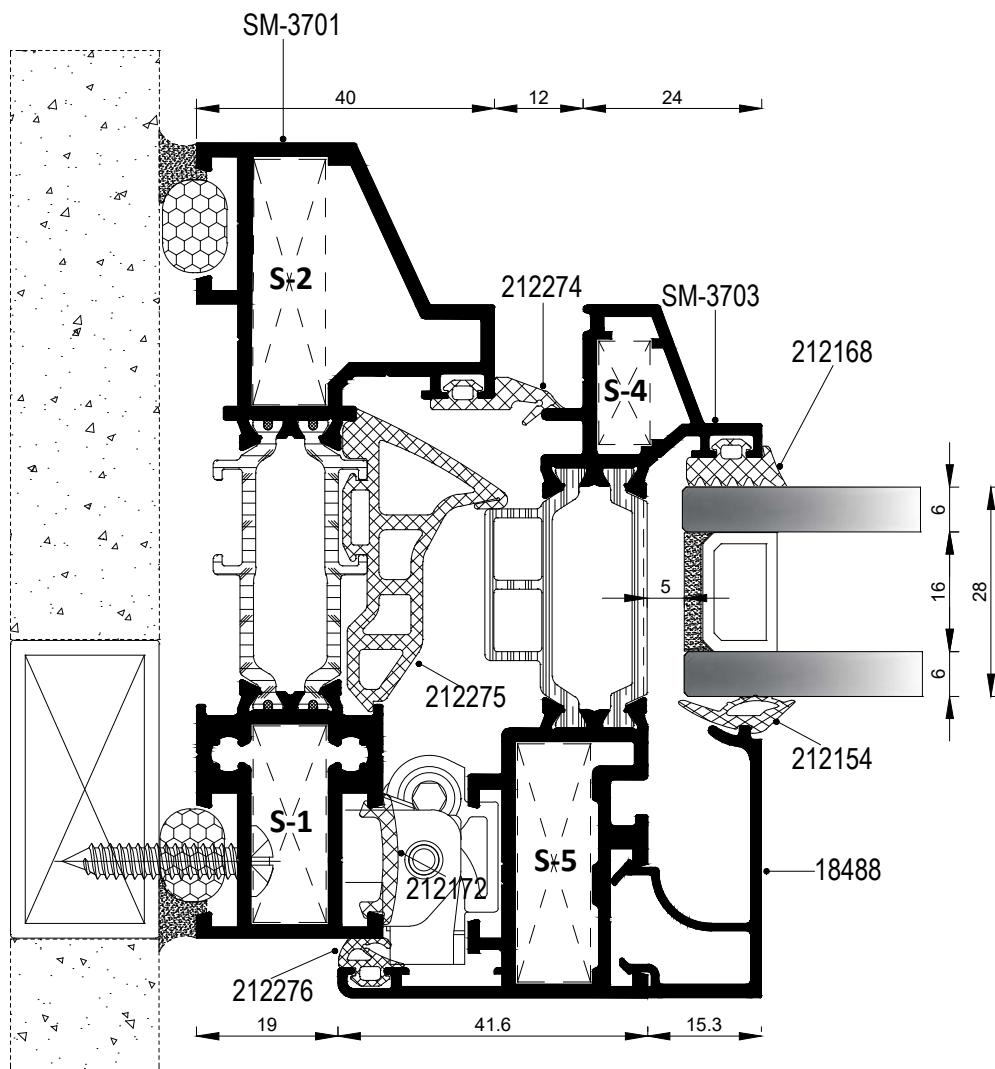
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SYSTEM

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SMARTNESS 37 HINGED System



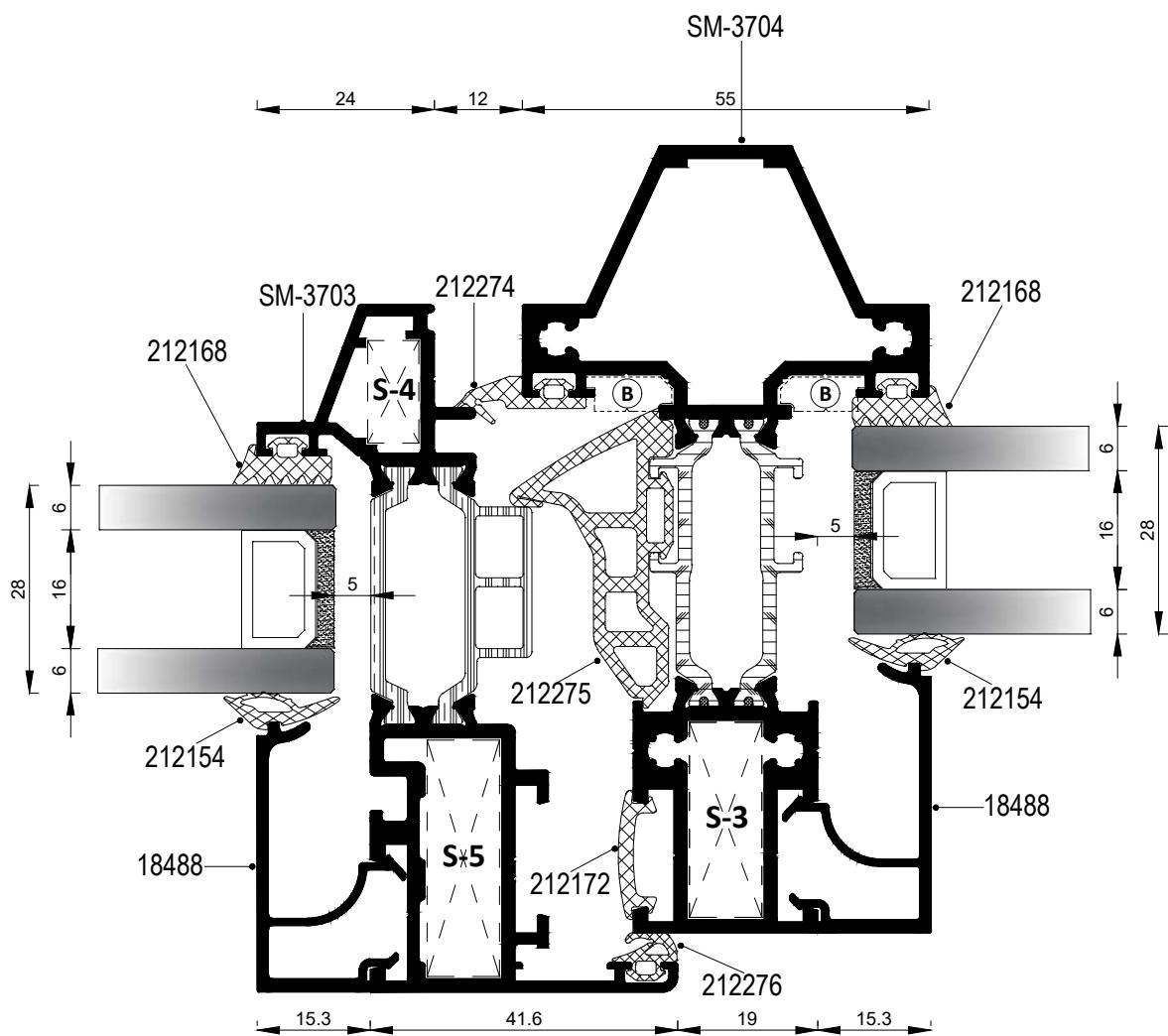
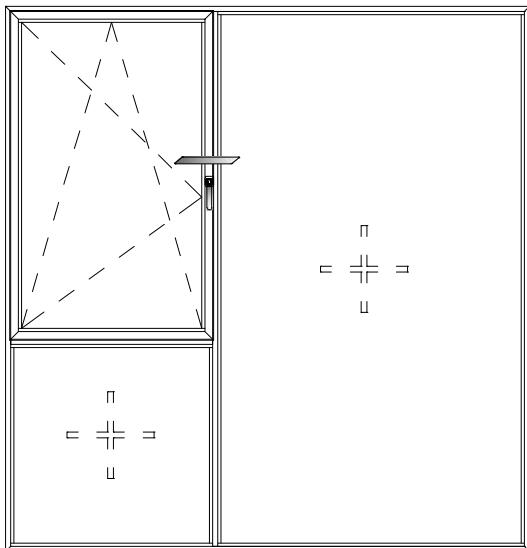
PENCERE DETAYLARI
WINDOW DETAILS



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SYSTEM

SMARTNESS 37 HINGED System

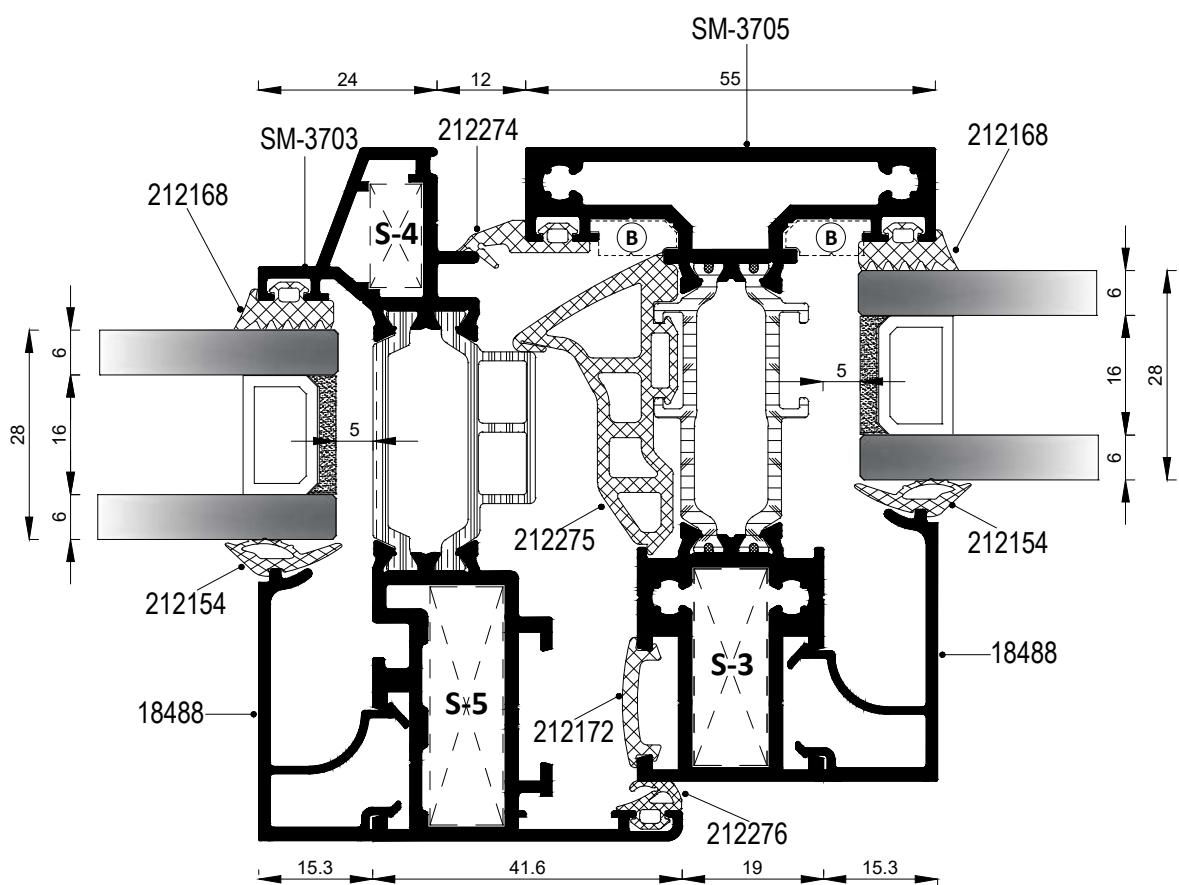
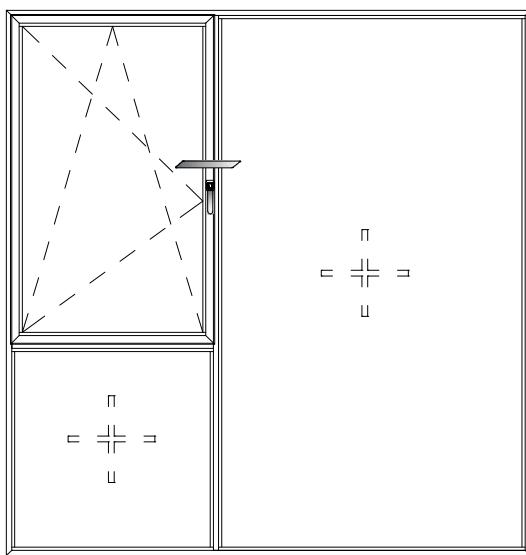
PENCERE DETAYLARI WINDOW DETAILS



FERMOSA
SYSTEM

SMARTNESS 37 HINGED System

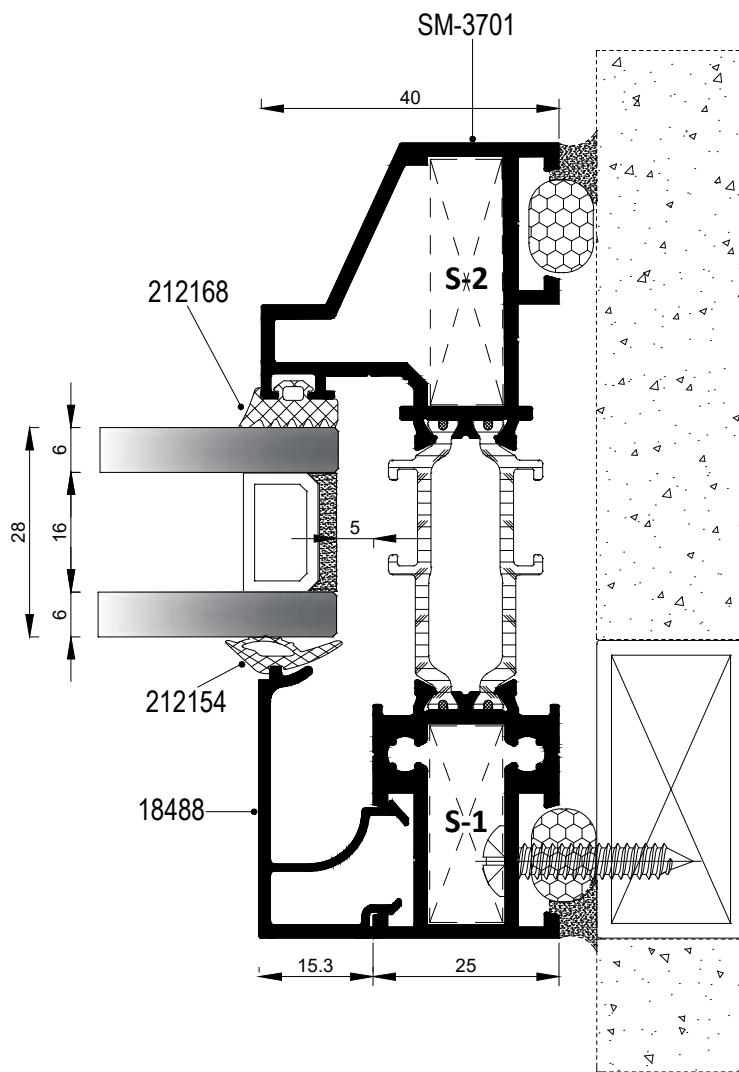
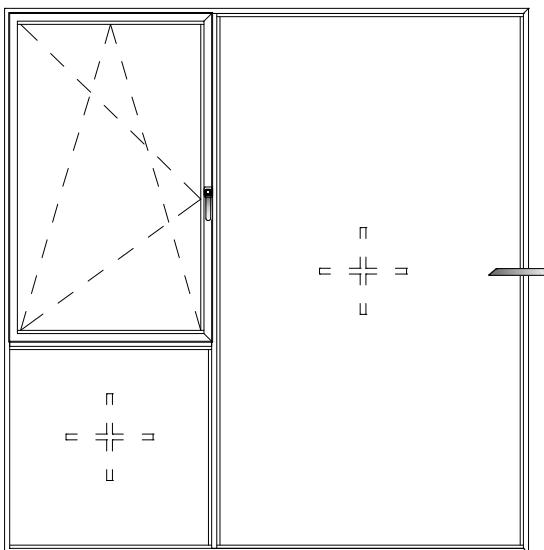
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WINDOW DETAILS



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SYSTEM

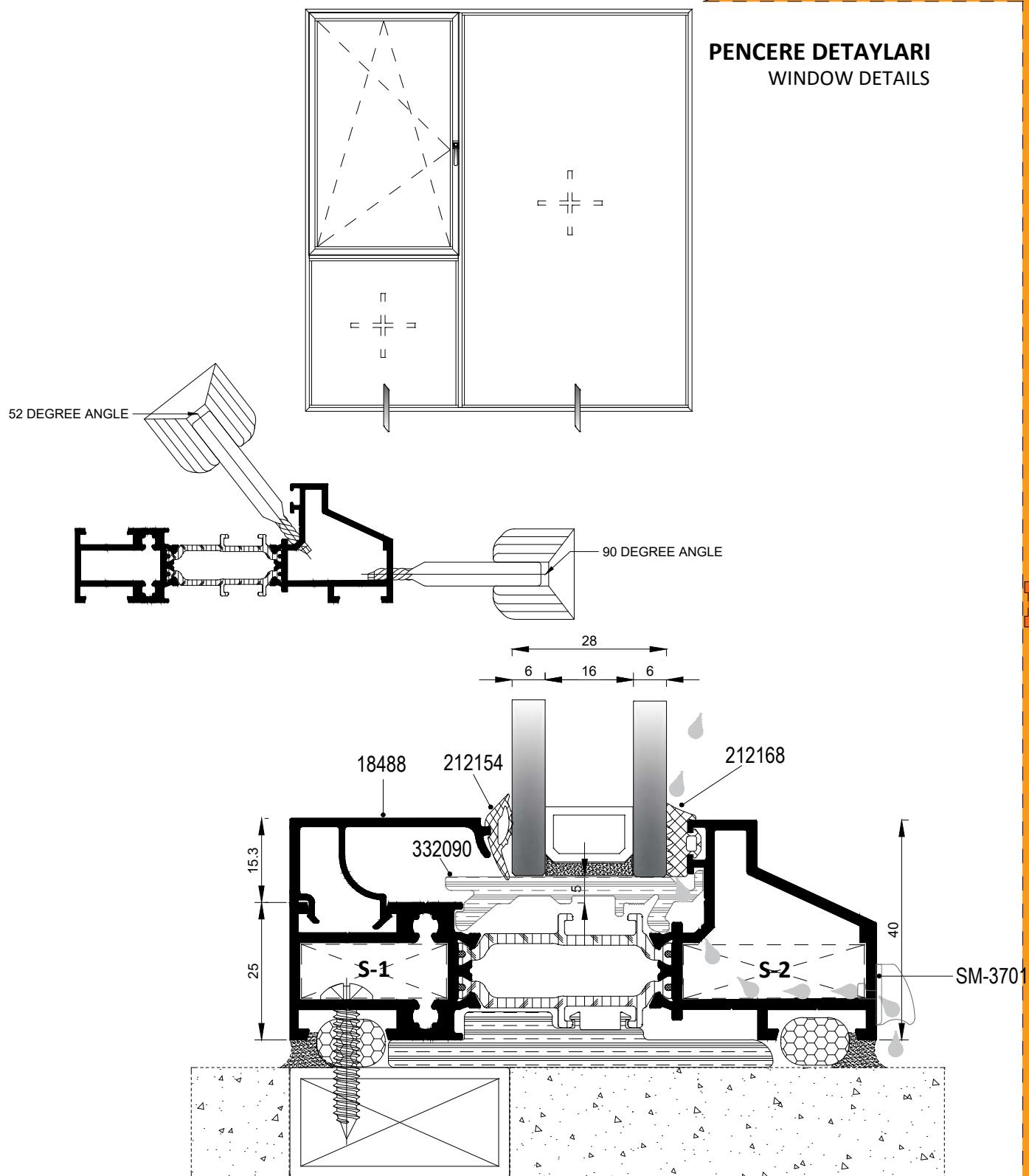
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PENCERE DETAYLARI WINDOW DETAILS



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SYSTEM

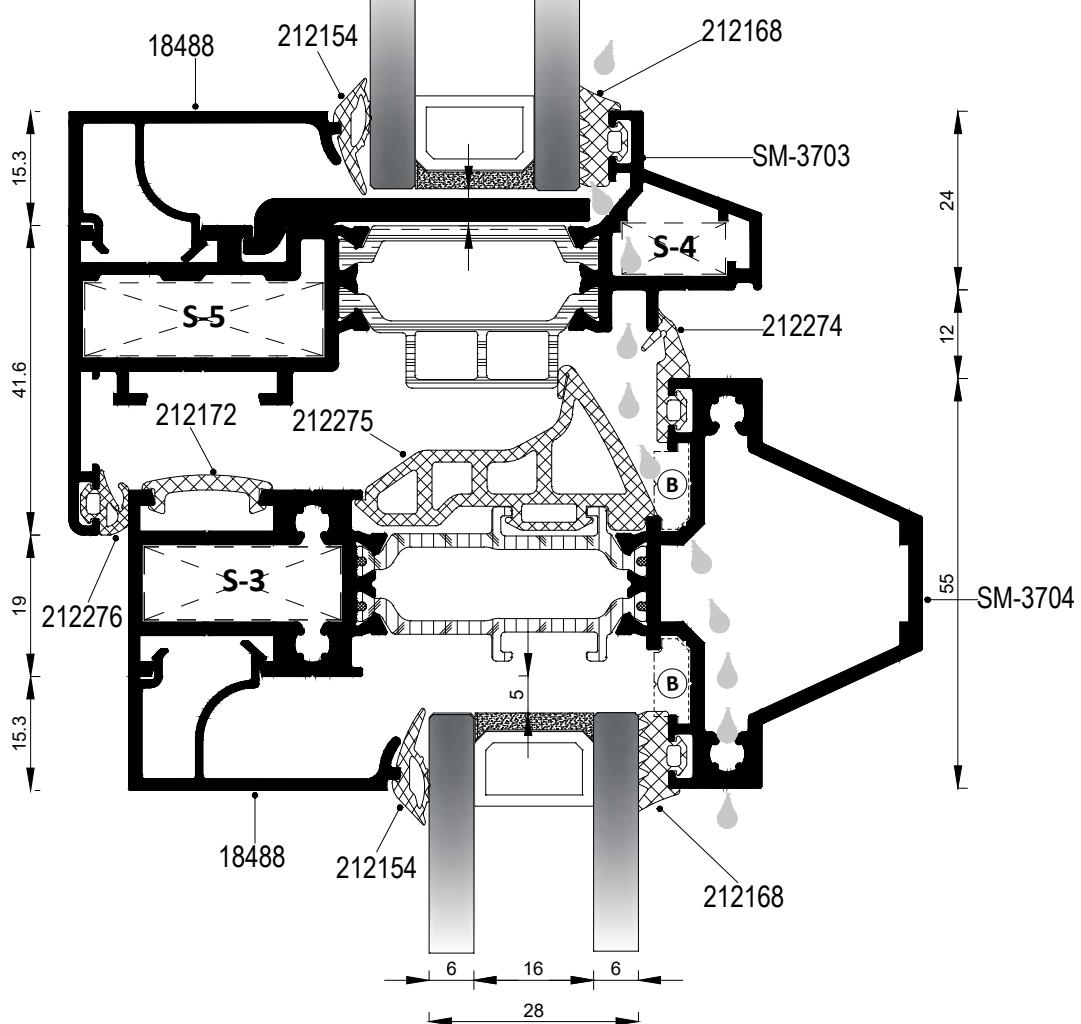
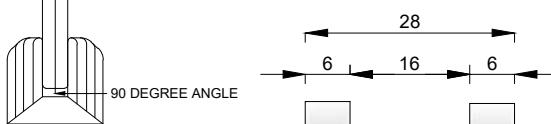
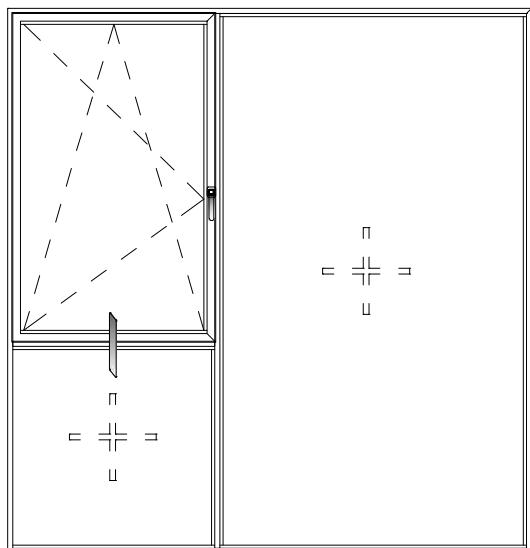
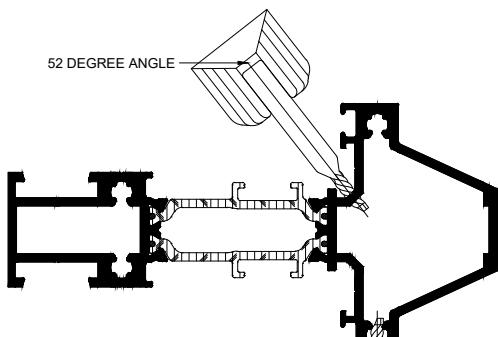
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SYSTEM

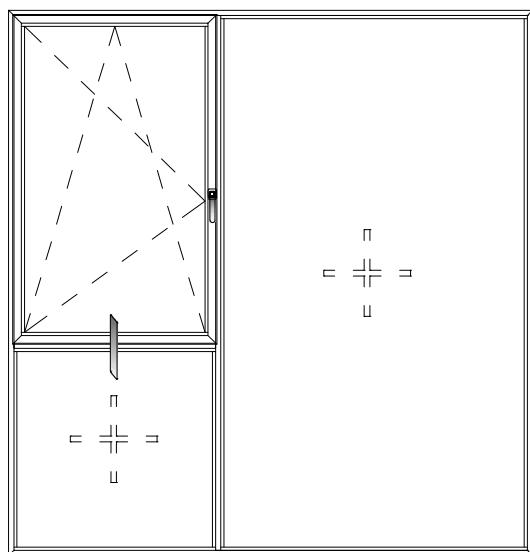
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PENCERE DETAYLARI WINDOW DETAILS

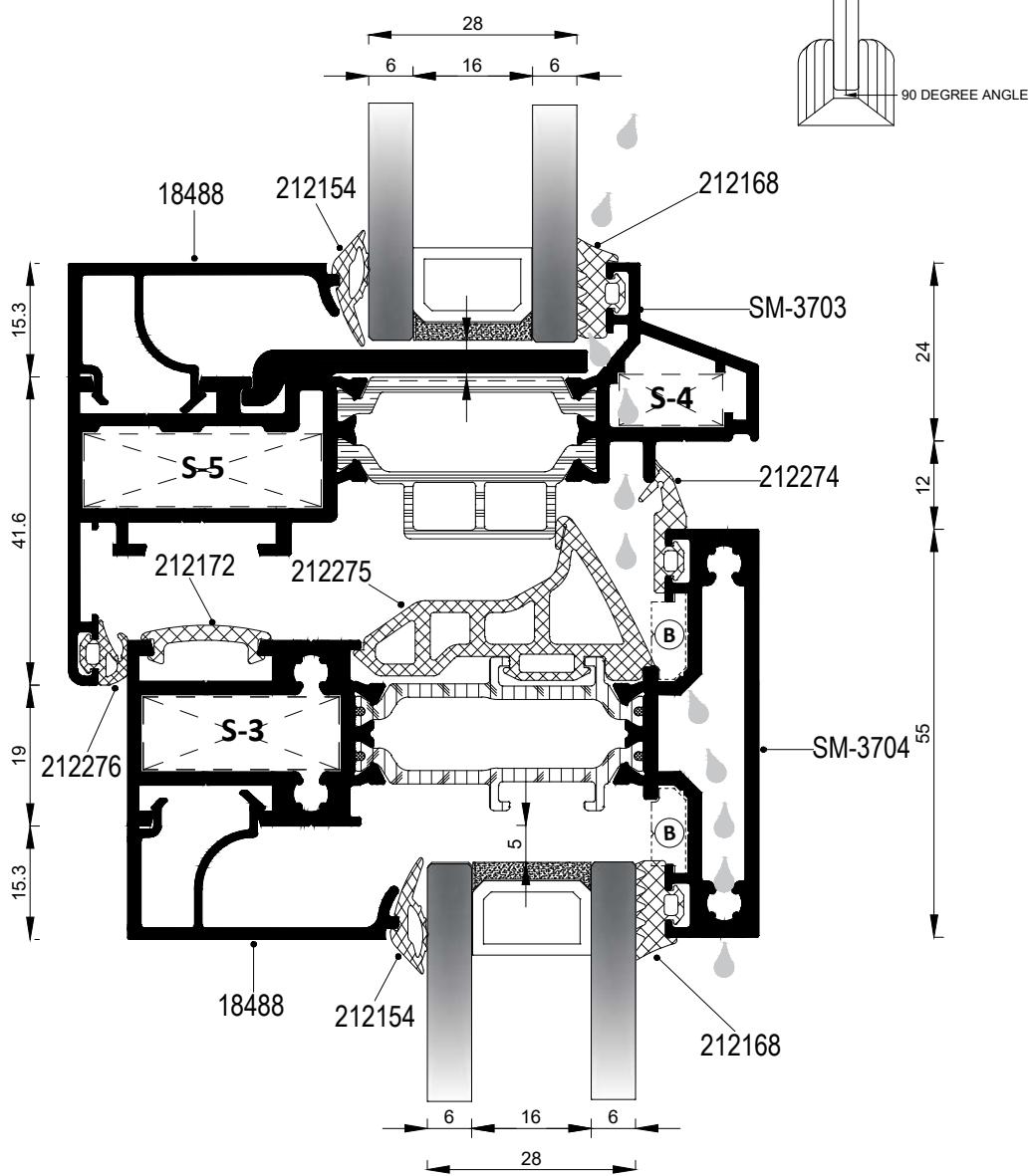
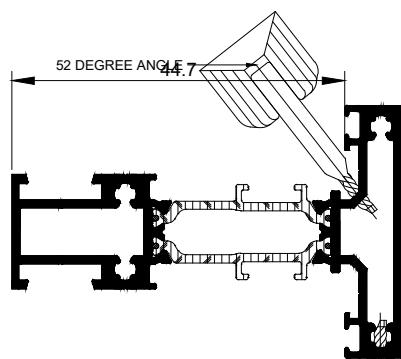


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SYSTEM

SMARTNESS 37 HINGED System



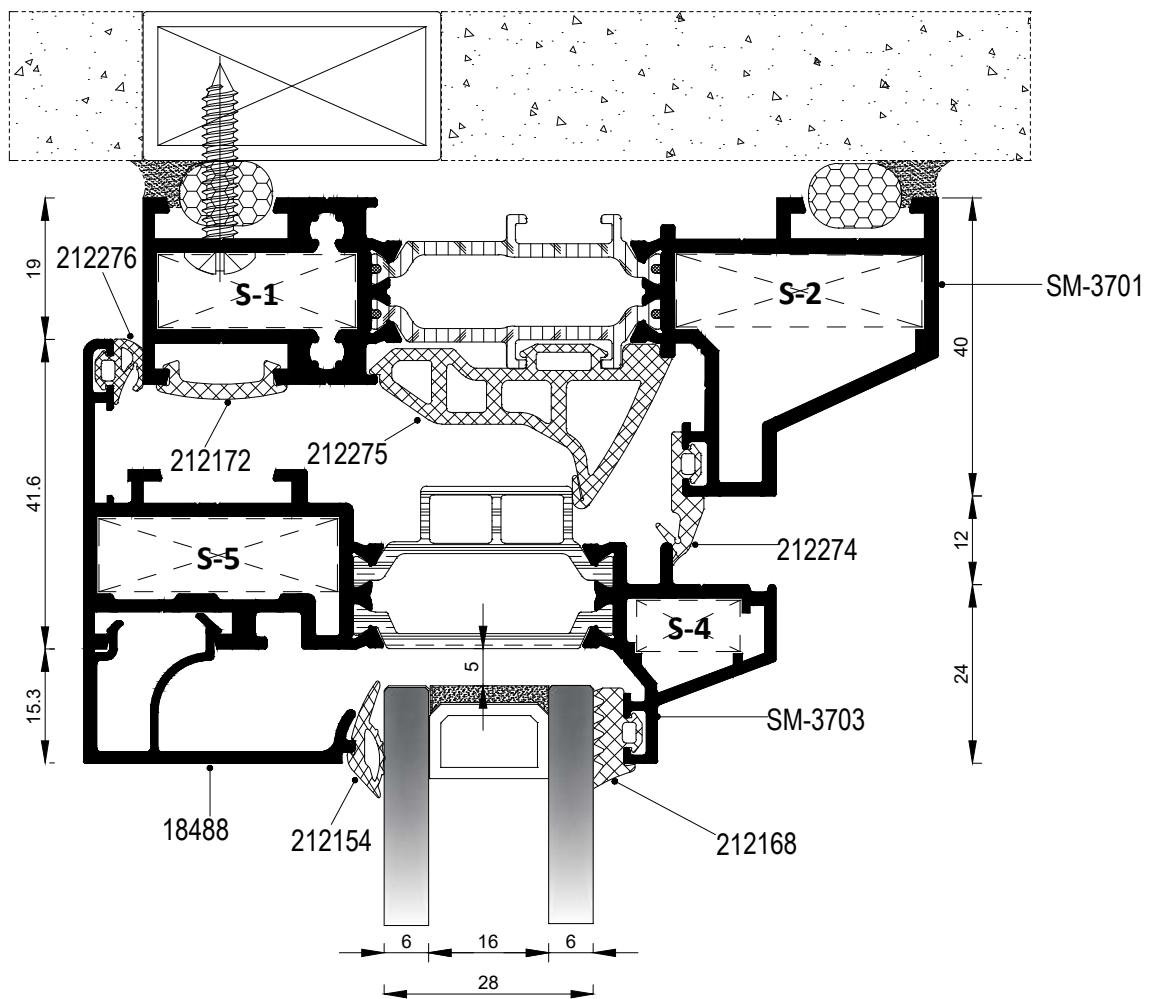
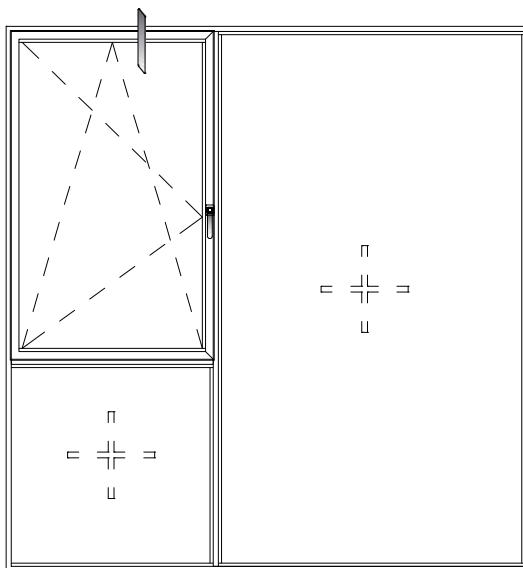
PENCERE DETAYLARI
WINDOW DETAILS



FERMOSA
SYSTEM

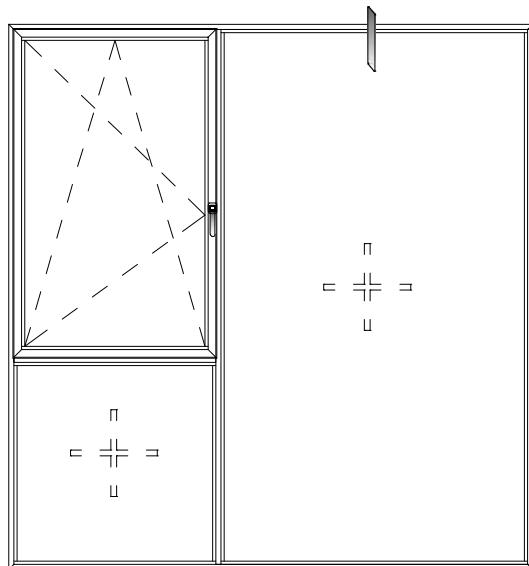
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PENCERE DETAYLARI WINDOW DETAILS

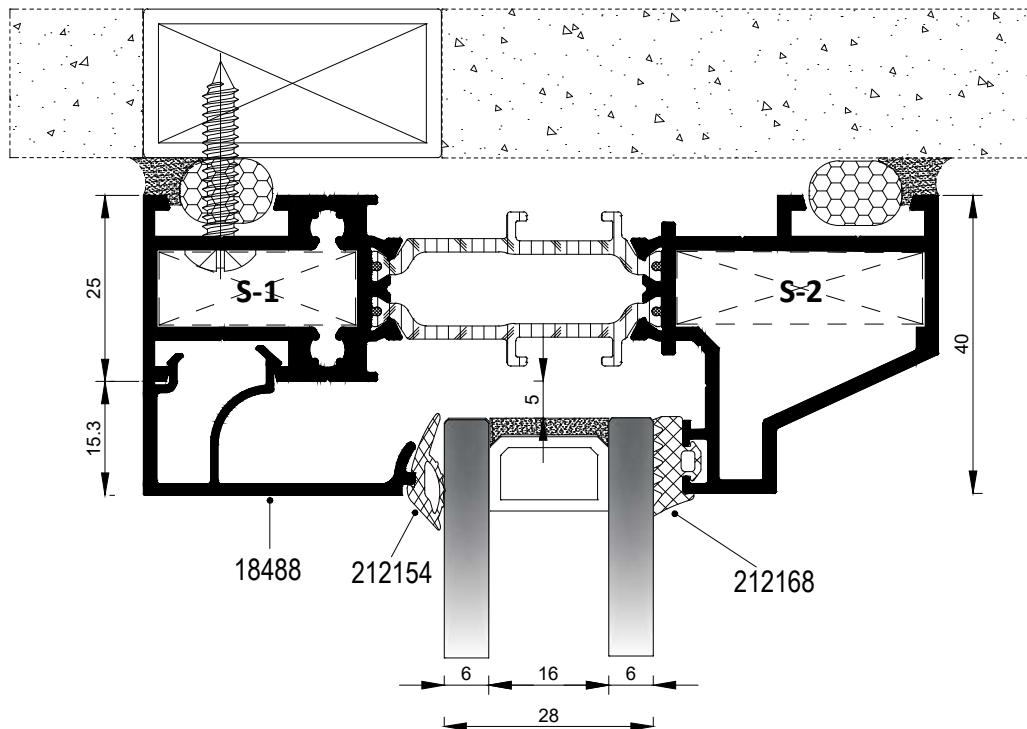


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SYSTEM

SMARTNESS 37 HINGED System



PENCERE DETAYLARI
WINDOW DETAILS

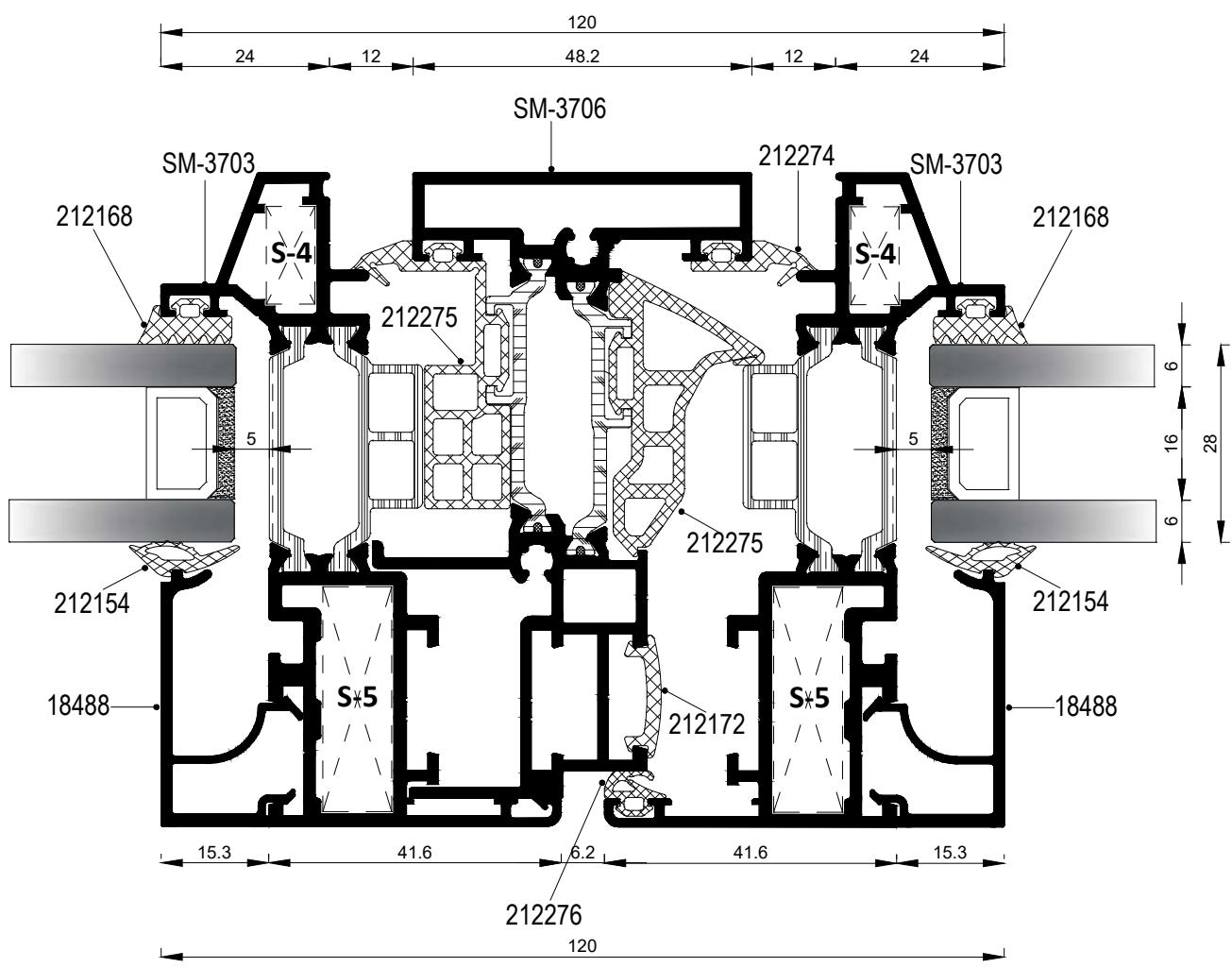
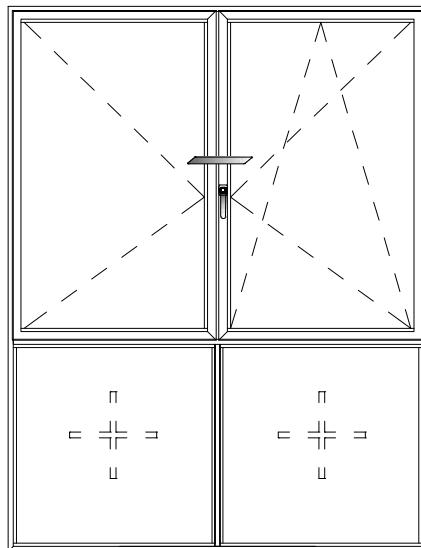


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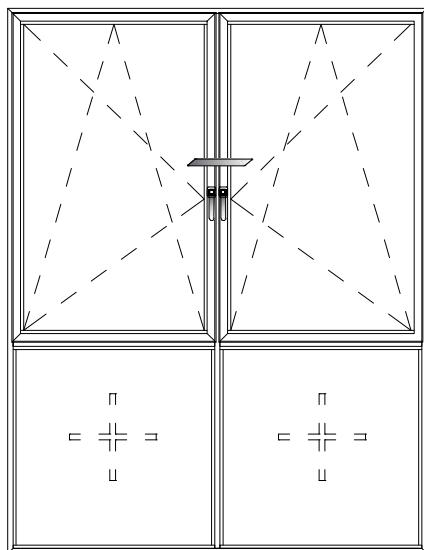
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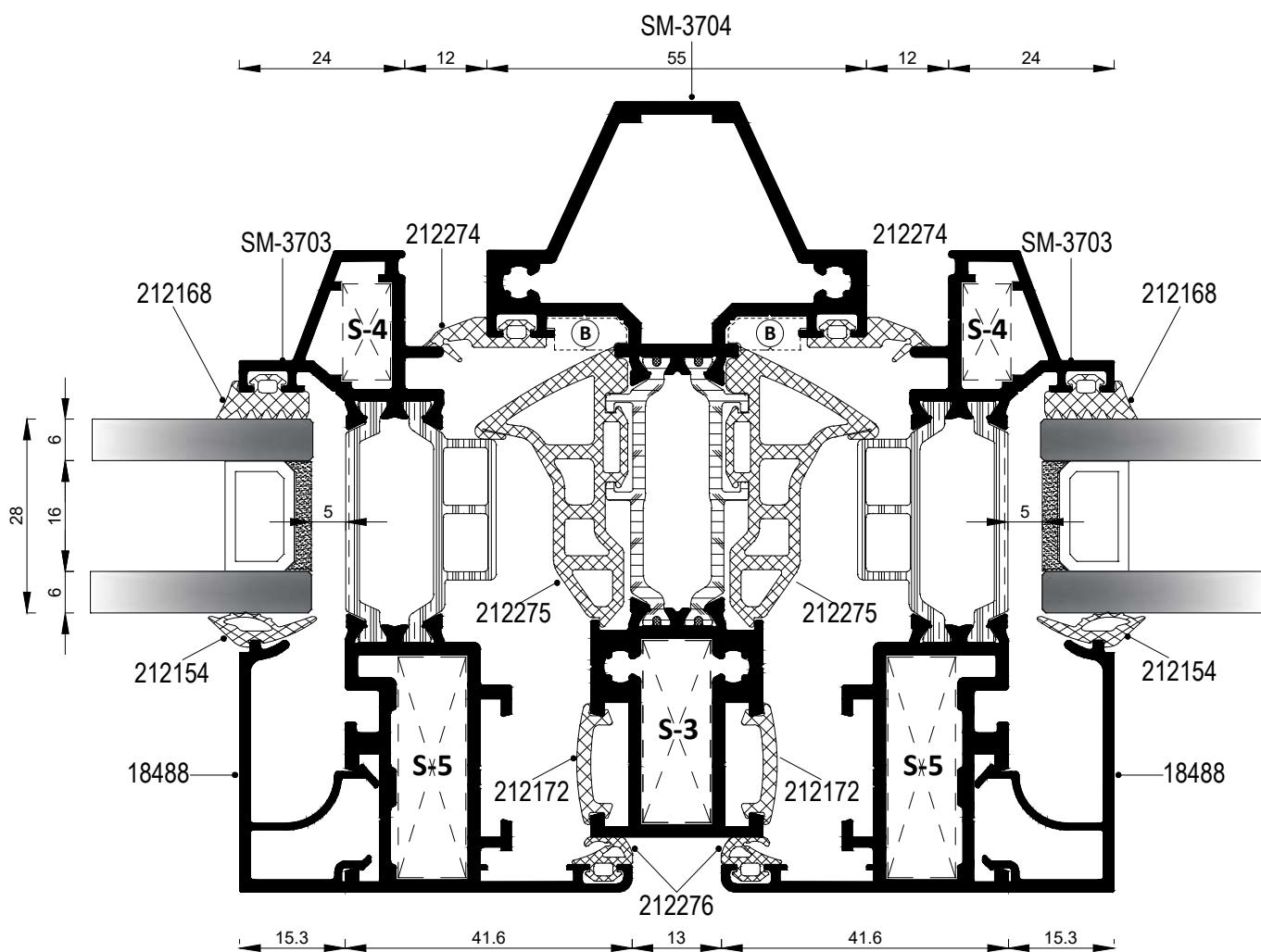


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SYSTEM

SMARTNESS 37 HINGED System



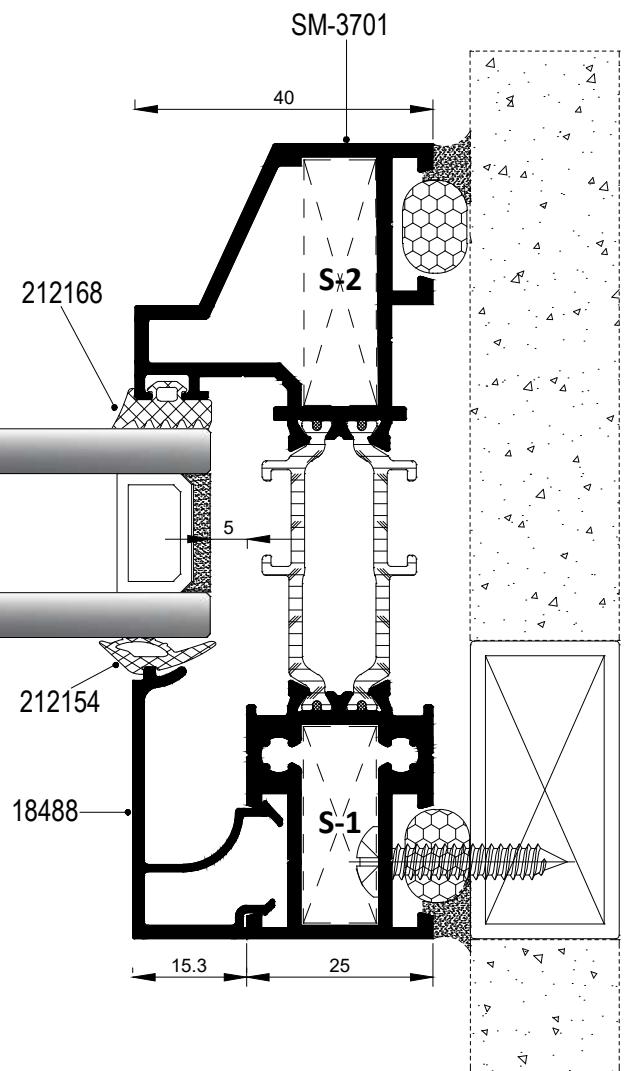
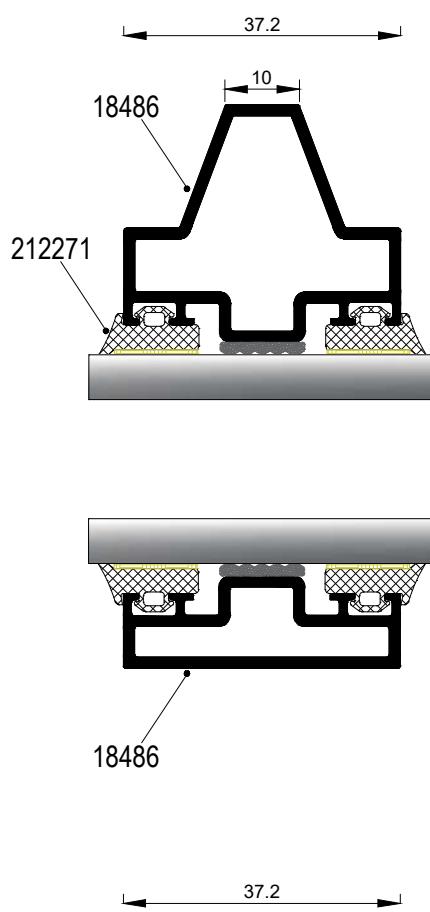
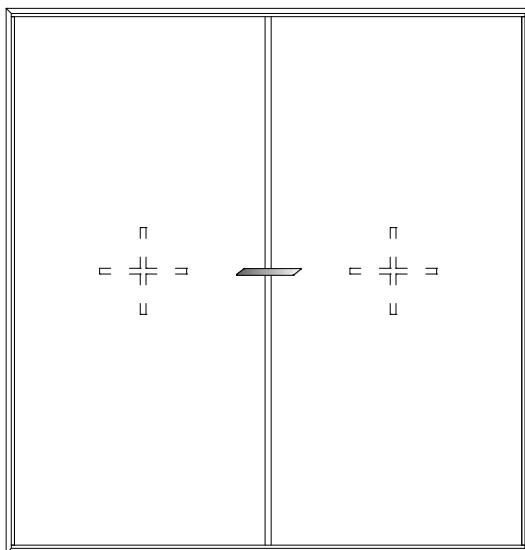
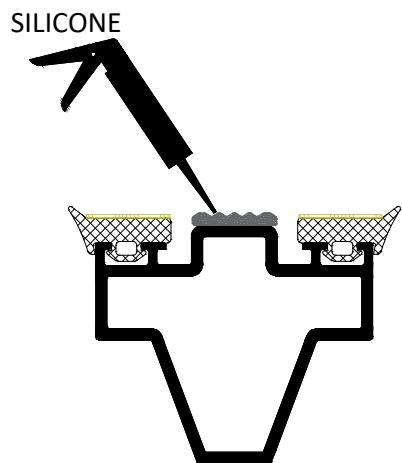
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WINDOW DETAILS



FERMOSA
SYSTEM

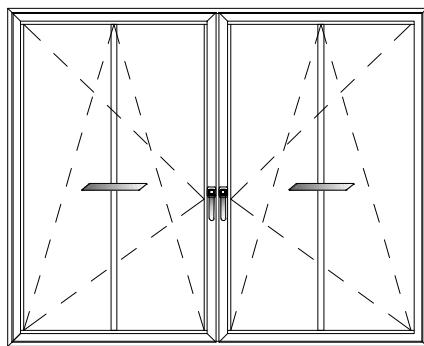
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PENCERE DETAYLARI WINDOW DETAILS

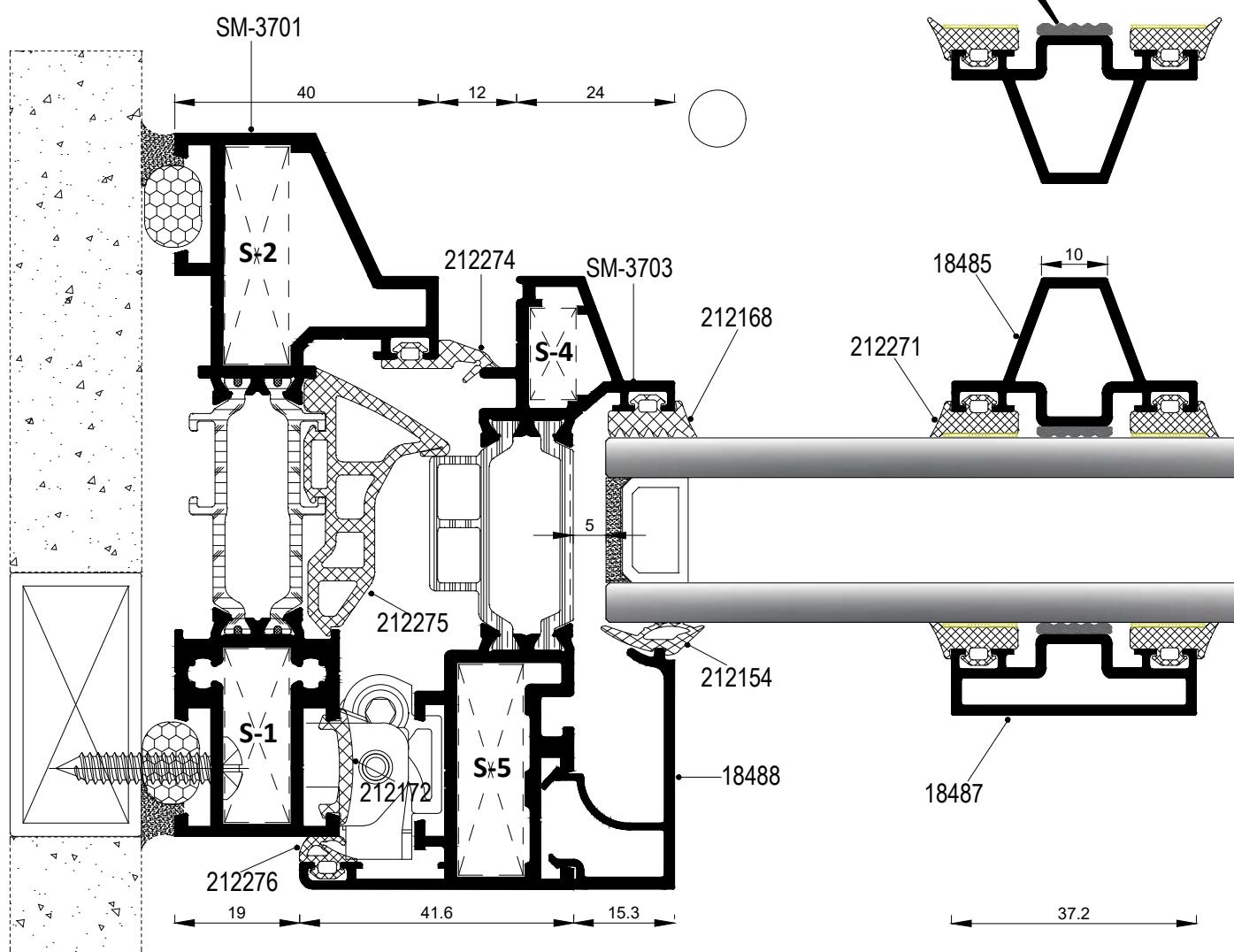


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SYSTEM

SMARTNESS 37 HINGED System



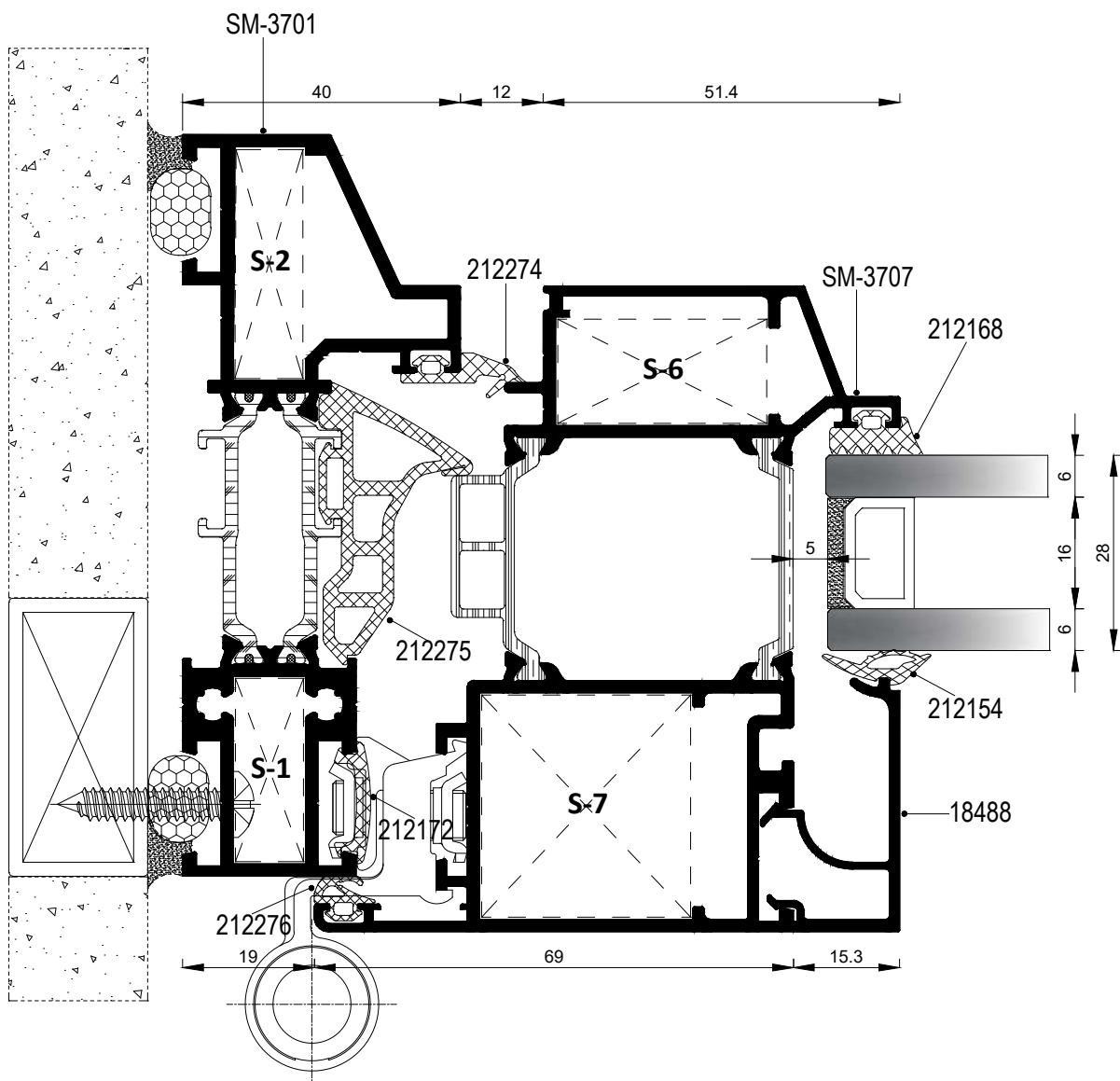
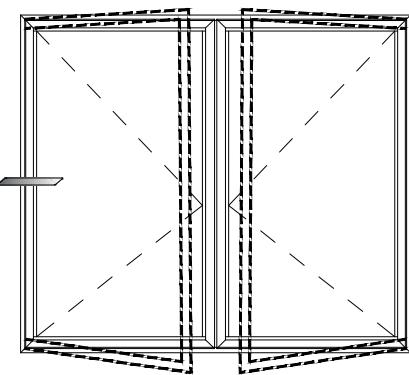
PENCERE DETAYLARI
WINDOW DETAILS



FERMOSA
SYSTEM

SMARTNESS 37 HINGED System

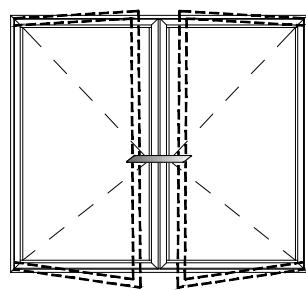
İÇE AÇILIR BİNİLİ KAPI DETAYLARI
INWARD OPENING STEP DOOR DETAILS



FERMOSA
SYSTEM

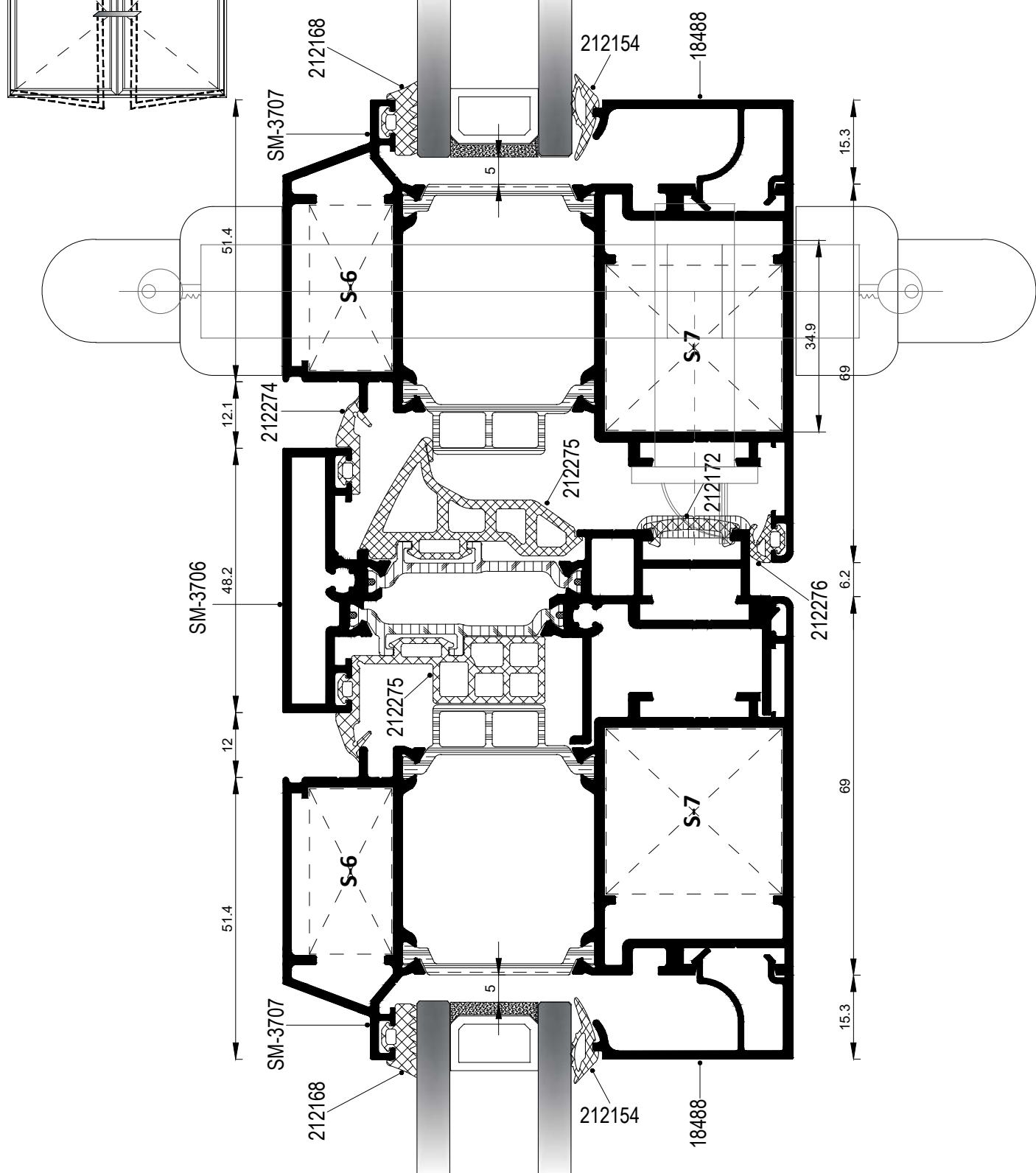
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SMARTNESS 37 HINGED System



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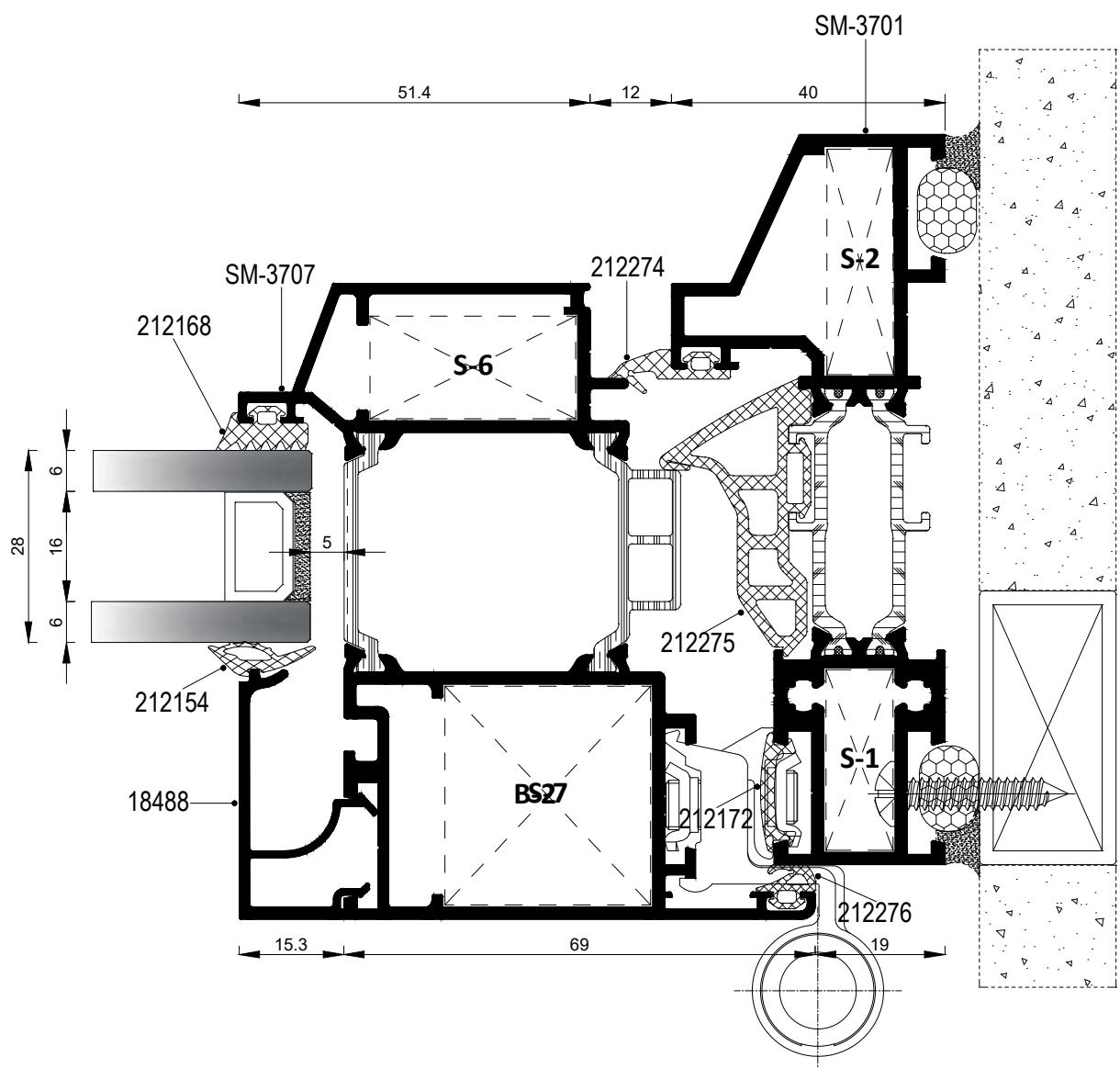
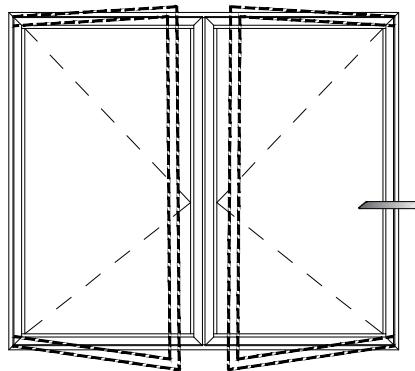
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INWARD OPENING STEP DOOR DETAILS



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SYSTEM

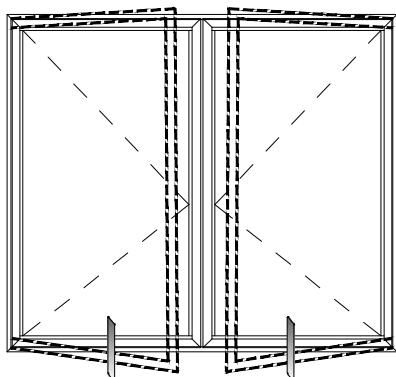
SMARTNESS 37 HINGED System

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INWARD OPENING STEP DOOR DETAILS

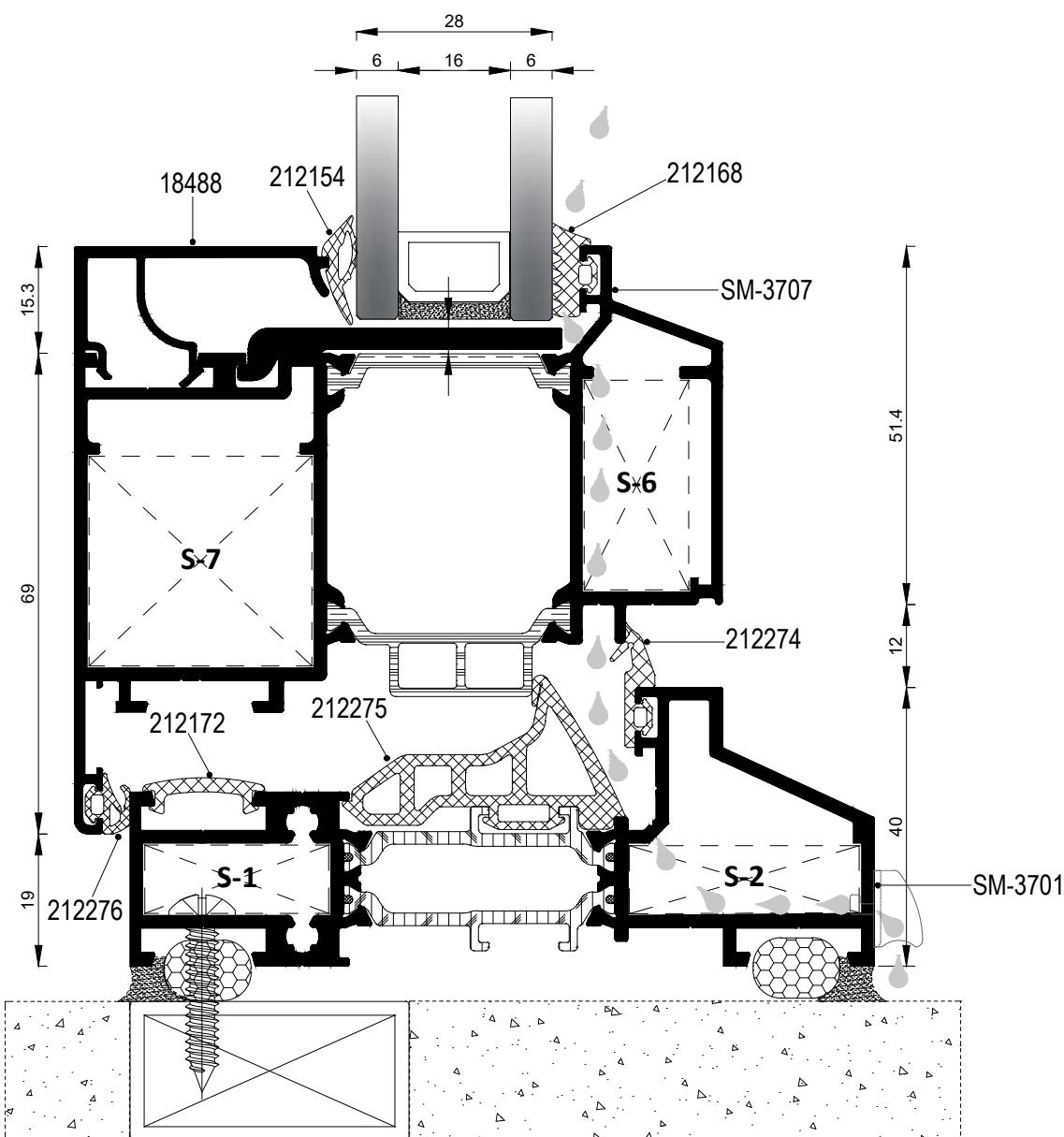


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SMARTNESS 37 HINGED System



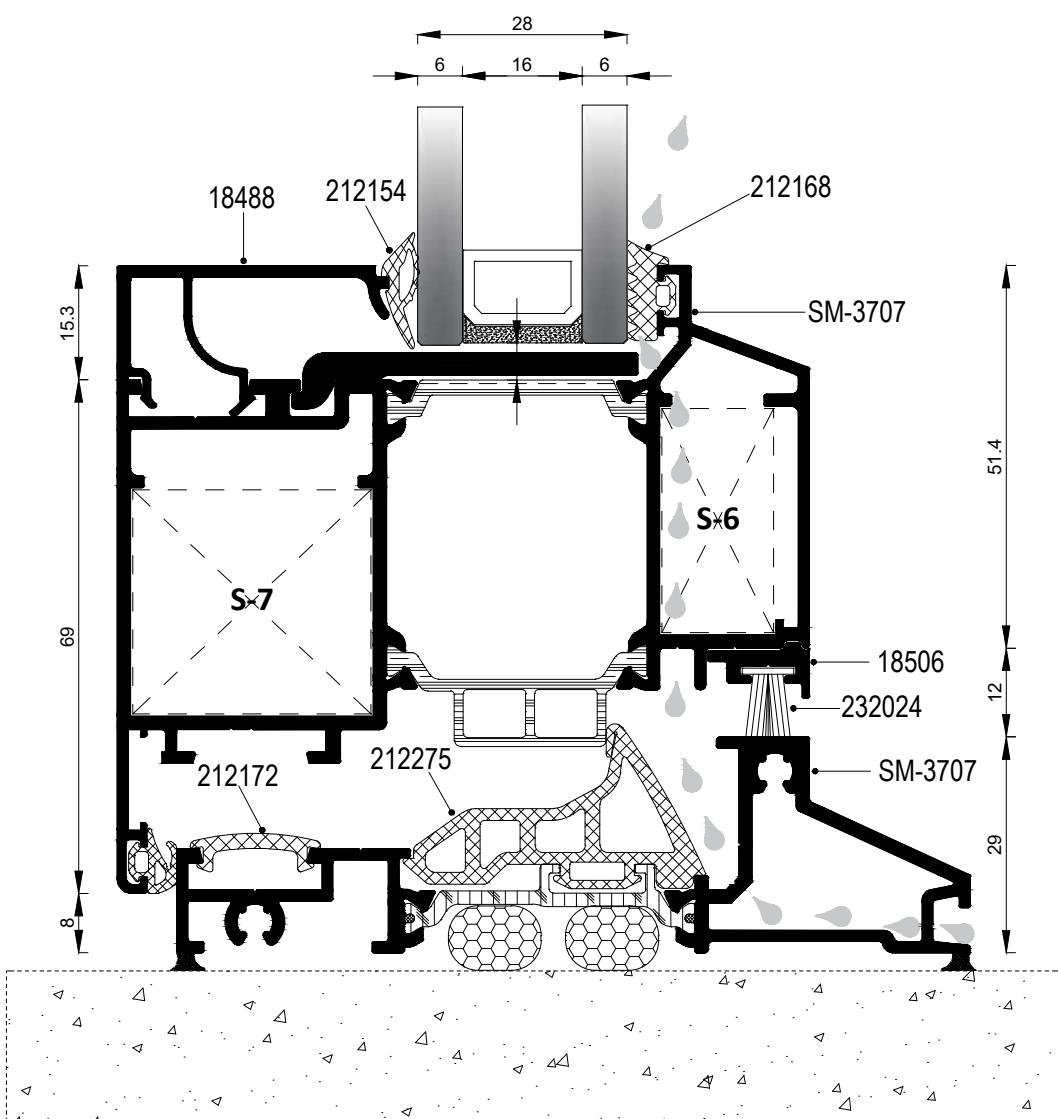
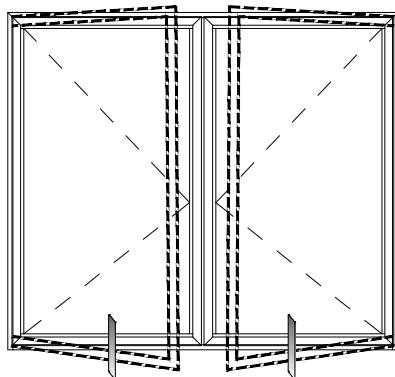
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INWARD OPENING STEP DOOR DETAILS



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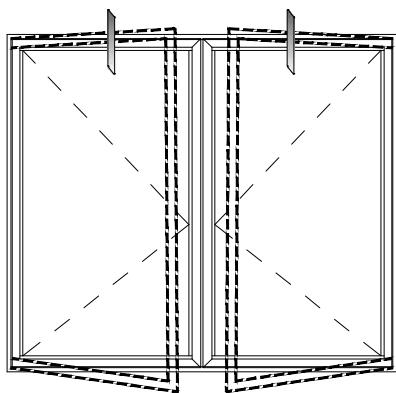
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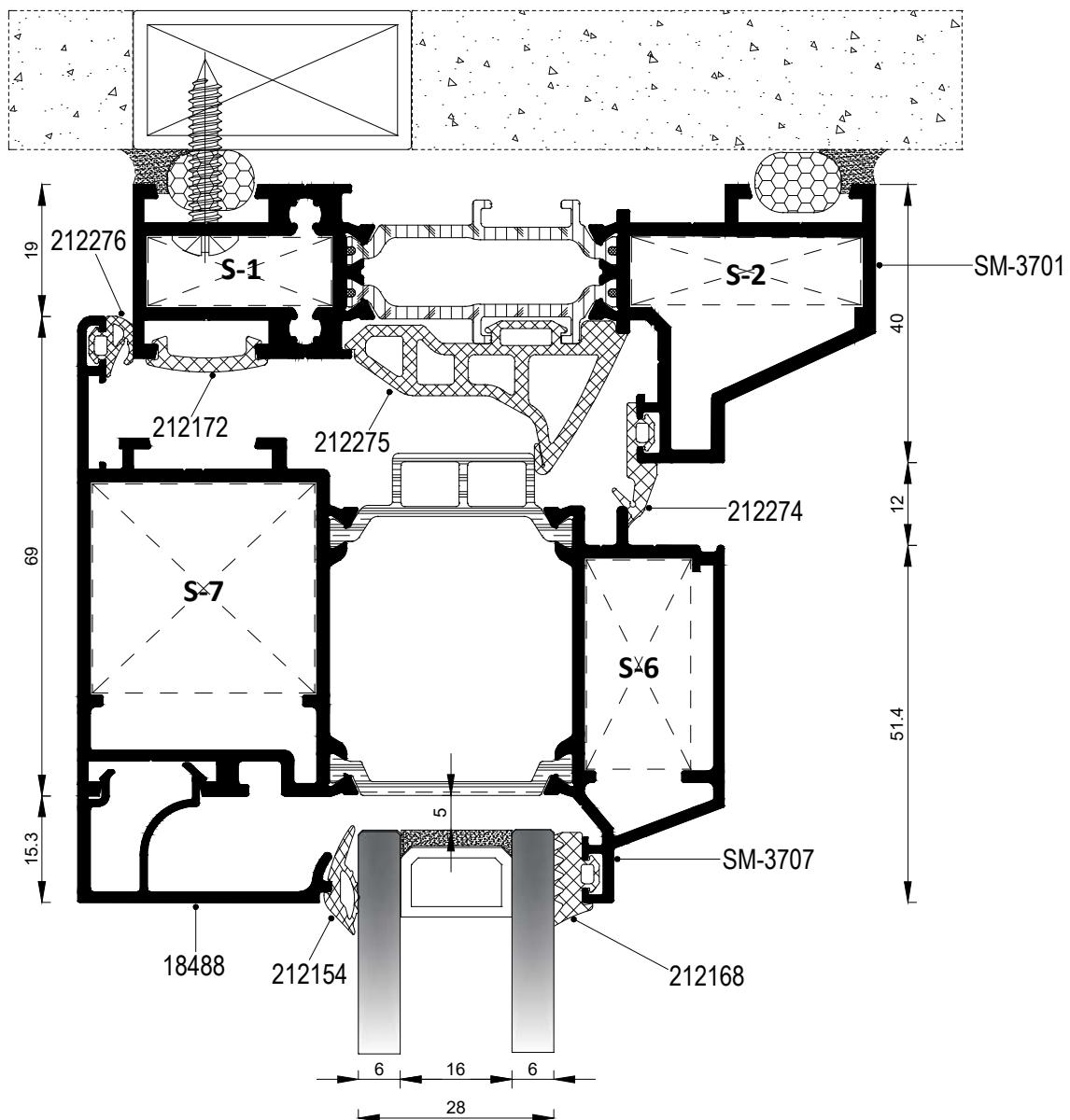


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SYSTEM

SMARTNESS 37 HINGED System



İÇE AÇILIR BİNİLİ KAPI DETAYLARI
INWARD OPENING STEP DOOR DETAILS



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SYSTEM

SMARTNESS 37 HINGED System

ORTA KAYIT BAĞLANTı DETAYI

MULLION, TRANSOM PROFILE END MILLING DETAIL

FERMOSA
SYSTEM

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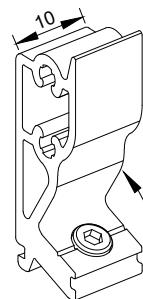
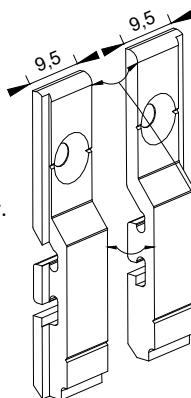
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151093

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SHAPED TRANSOM CONNECTION

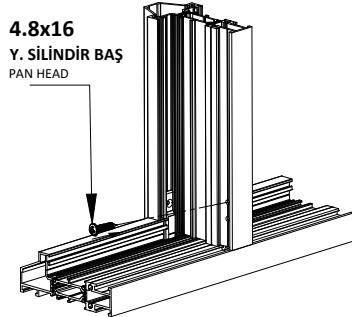
Pr. No: 18484

(Sağ ve sol olmak üzere ikili takımdır.
Using left and right one together as kit.)

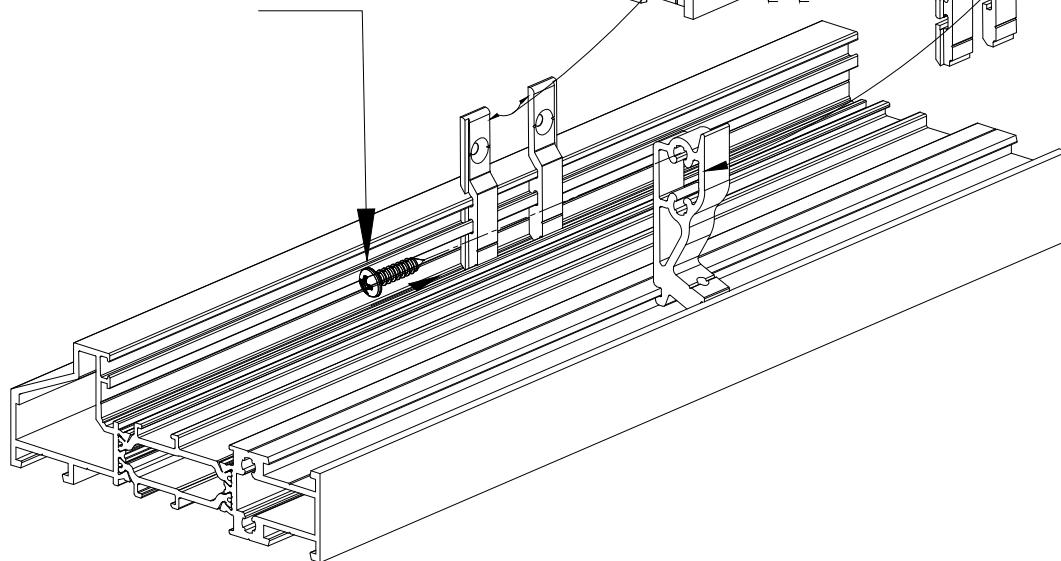
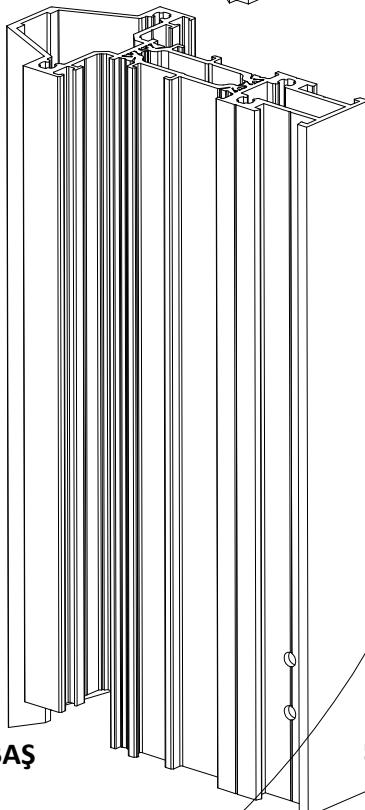


151092

U BAĞLANTILAR
U CONNECTIONS
Pr. No: 20522



4.8x16
Y. SİLİNDİR BAŞ
PAN HEAD



FERMOSA
SYSTEM

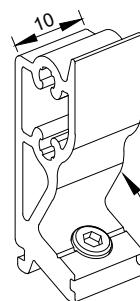
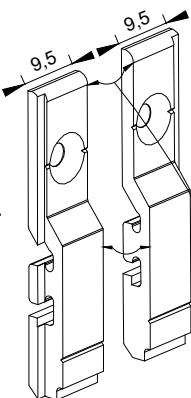
SMARTNESS 37 HINGED System

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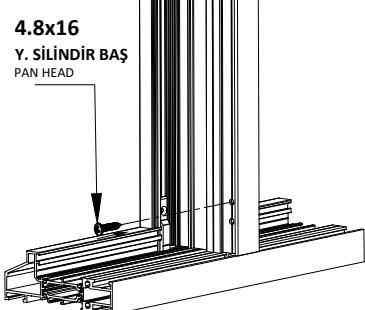
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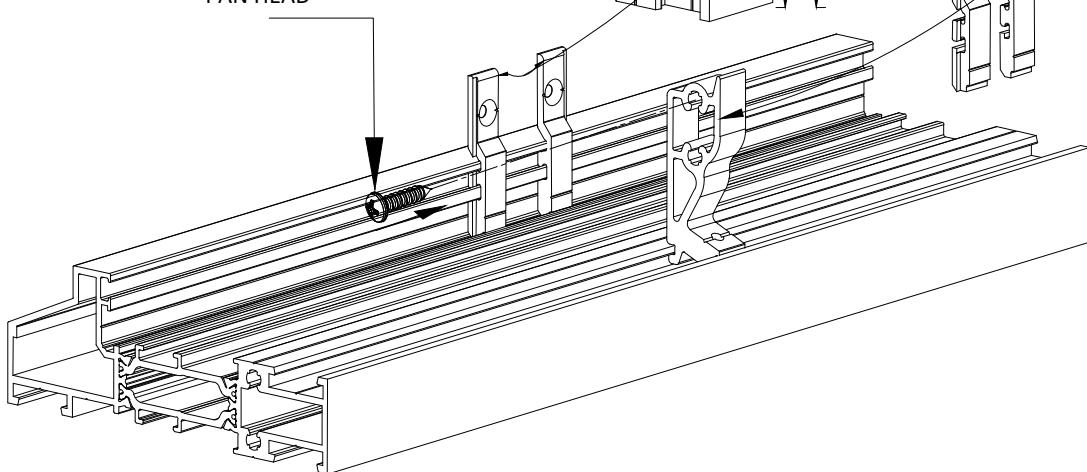
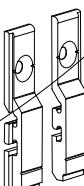
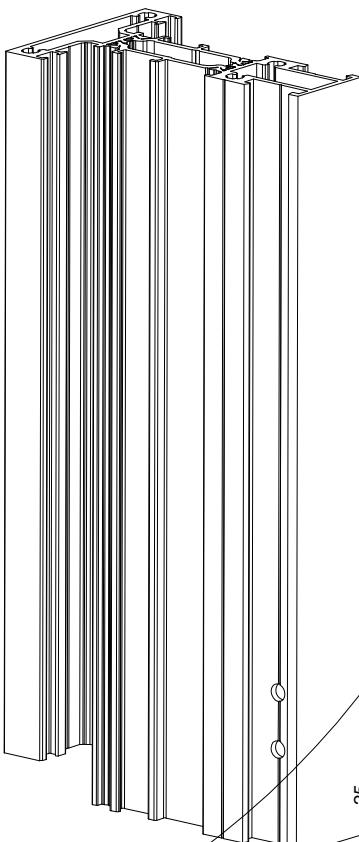
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U BAĞLANTILARI
U CONNECTIONS
Pr. No: 20522



4.8x16

Y. SİLİNDİR BAŞ
PAN HEAD



FERMOSA
SYSTEM

SMARTNESS 37 HINGED System

AKSESUARLAR

ACCESSORIES

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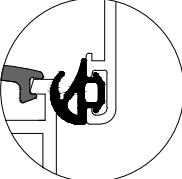
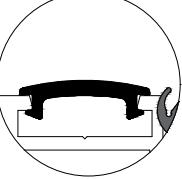
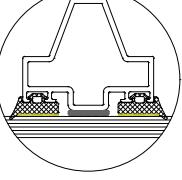
SMARTNESS 37 HINGED System

AKSESUARLAR / ACCESSORIES

EPDM FİTİLLER / EPDM GASKETS		
ÇİZİM / DRAWING	AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	TAKILMA BÖLGESİ / APPLICATION AREA
	<p>212168 DIŞ CAM FİTİLLİ 4 mm / OUTER GLAZING GASKET 4 mm BİRİM AĞIRLIK / UNIT WEIGHT: 68 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 220 m</p>	
	<p>212274 KASA BİNİ FİTİLLİ / OUTER CASE GASKET BİRİM AĞIRLIK / UNIT WEIGHT: 40 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 325 m</p>	
	<p>212275 ORTA BİNİ FİTİLLİ / CENTRAL STEP GASKET BİRİM AĞIRLIK / UNIT WEIGHT: 315 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 47 m</p>	
	<p>212273 ORTA BİNİ FİTİLLİ / CENTRAL STEP GASKET BİRİM AĞIRLIK / UNIT WEIGHT: 250 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 60 m</p>	
	<p>212153 KAMA FİTİLLİ 3 mm / SUPPORT GASKET 3 mm BİRİM AĞIRLIK / UNIT WEIGHT: 42 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 350 m</p>	
	<p>212154 KAMA FİTİLLİ 4 mm / SUPPORT GASKET 4 mm BİRİM AĞIRLIK / UNIT WEIGHT: 55 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 270 m</p>	
	<p>212155 KAMA FİTİLLİ 5 mm / SUPPORT GASKET 5 mm BİRİM AĞIRLIK / UNIT WEIGHT: 65 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 230 m</p>	
	<p>212193 KAMA FİTİLLİ 6 mm / SUPPORT GASKET 6 mm BİRİM AĞIRLIK / UNIT WEIGHT: 89 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 170 m</p>	

FERMOSA
SYSTEM

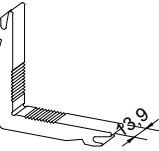
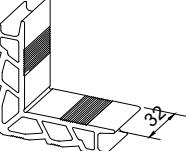
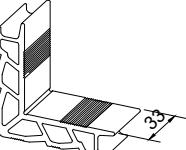
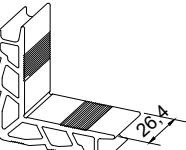
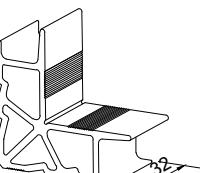
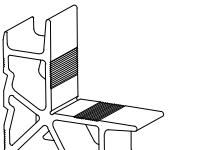
SMARTNESS 37 HINGED System

EPDM FİTİLLER / EPDM GASKETS		
ÇİZİM / DRAWING	AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	TAKILMA BÖLGESİ / APPLICATION AREA
	<p>212276 KANAT FİTİLİ / WING GASKET BİRİM AĞIRLIK / UNIT WEIGHT: 40 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 325 m</p>	
	<p>212172 KAPATMA FİTİLİ / CLOSING GASKET BİRİM AĞIRLIK / UNIT WEIGHT: 52 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 250 m</p>	
	<p>212271 YAPIŞKANLI CAM FİTİLİ 4 mm / ADHESIVE GLASS GASKET 4 mm BİRİM AĞIRLIK / UNIT WEIGHT: 68 g/m KOLİ MİKTARI / PACKAGE QUANTITY: 220 m</p>	

AKSESUARLAR / ACCESSORIES

FERMOSA
 SYSTEM

SMARTNESS 37 HINGED System

KÖŞE TAKOZLARI / CORNER CLEATS		
ÇİZİM / DRAWING	AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	KESİM ÖLÇÜSÜ CUTTING DIMENSION
	(S4) 111326 PROFİL NUMARASI / PROFILE NUMBER: 20008 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,117 kg/m	13,9 mm
	(S5) 111327 PROFİL NUMARASI / PROFILE NUMBER: MS-8920 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,115 kg/m	32 mm
	(S2) 111329 PROFİL NUMARASI / PROFILE NUMBER: MS-8920 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,115 kg/m	33 mm
	(S1) 111314 PROFİL NUMARASI / PROFILE NUMBER: MS-8920 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 2,115 kg/m	26,4 mm
	(S6) 111330 PROFİL NUMARASI / PROFILE NUMBER: 20523 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 3,793 kg/m	32 mm
	(S7) 111331 PROFİL NUMARASI / PROFILE NUMBER: 20523 PROFİL AĞIRLIĞI / PROFILE WEIGHT: 3,793 kg/m	15 mm

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SMARTNESS 37 HINGED System

ÇİZİM / DRAWING	AKSESUAR KODU VE ÜRÜN BİLGİLERİ / ACCESSORY CODE AND PRODUCT DESCRIPTION	KESİM ÖLÇÜSÜ CUTTING DIMENSION
	252010 DIŞ CAM VULKANİZE KÖŞE CONTASI VULCANIZED CORNER FOR THE OUTER GASKET	
	252017 ORTA BİNİ VULKANİZE KÖŞE CONTASI VULCANIZED CORNER FOR THE CENTRAL GASKET	
	162009 KÖŞE ÇAVUŞU - 3 (Çelik/Steel) CORNER ALIGNMENT - 3	
	332090 CAM ALTı DESTEK PARÇASI - 1 (PVC) GLAZING SUPPORT - 1	
	181016 CAM ALTı DESTEK PARÇASI - 2 (AL.) GLAZING SUPPORT - 2	Pr. No: 20408
	322089 ÇIFT KANAT ADAPTÖR TAPASI ADAPTER PLUG FOR DOUBLE VENT WINDOWS (Alt ve üst olmak üzere ikili takımdır. / Using top and bottom one together as kit.)	
	(B) 151093 ORTA KAYIT BAĞLANTI SHAPED TRANSOM CONNECTION Pr. No: 18484	KESİM ÖLÇÜSÜ CUTTING DIMENSION 9,5mm
	(S3) 151092 U BAĞLANTILAR U CONNECTIONS Pr. No: 20522	KESİM ÖLÇÜSÜ CUTTING DIMENSION 10mm

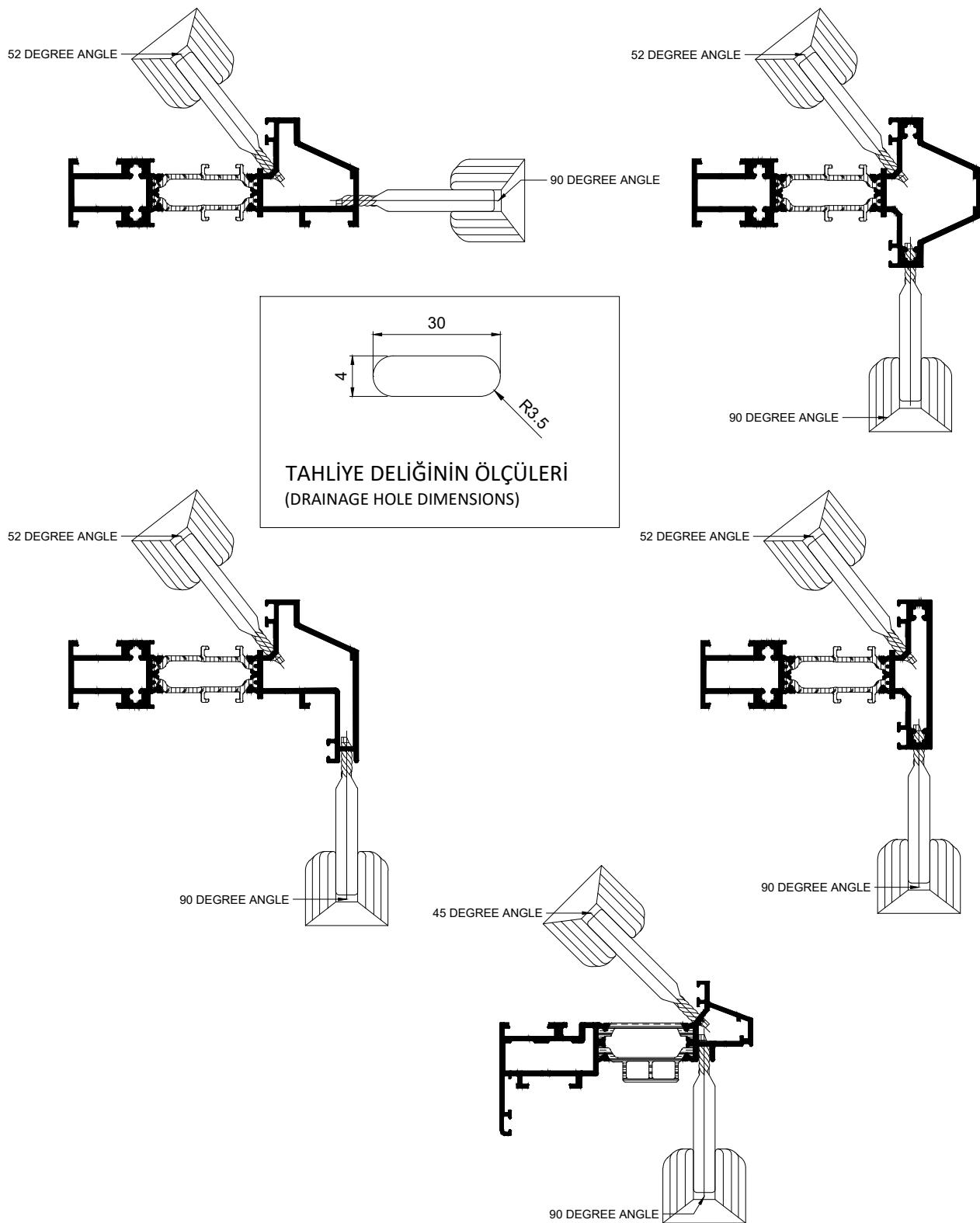
AKSESUARLAR / ACCESSORIES

FERMOSA
SYSTEM

SMARTNESS 37 HINGED System

TAHLİYE ŞEKİLLERİ - 1

DRAINAGE TYPES - 1



FERMOSA
SYSTEM

SMARTNESS 37 HINGED System

ÇİFT AÇILIM AKSESUARLARI VE AÇILIM SETLERİ ACCESSORIES OF TILT&TURN OPENING KITS AND OPENING KITS



KANADIN AŞAĞIDAKİ ÖZELLİKLERİNE GÖRE VERİLEN TABLOLARDAN ÇİFT AÇILIM SETLERİNİN SEÇİMİ YAPILIR:
CHOOSE A T&T KIT FROM GIVEN TABLES AS SPECIFICATIONS OF VENT:

- 1) KANAT AĞIRLIĞI / WEIGHT OF VENT
- 2) KANAT ÖLÜMLERİ / DIMENSIONS OF VENT
- 3) KANADIN AÇILIM ÖNCELİĞİ (ÖNCE NORMAL / ÖNCE VASİTAS)
OPENING PRIORITY OF VENT (FIRST TILT OR FIRST TURN)
- 4) PVC KANALLILAR İÇİN AÇILIM YÖNÜ (SAĞ / SOL)
OPENING SIDE FOR PROFILES WITH PVC GROOVE (RIGHT OR LEFT HAND)

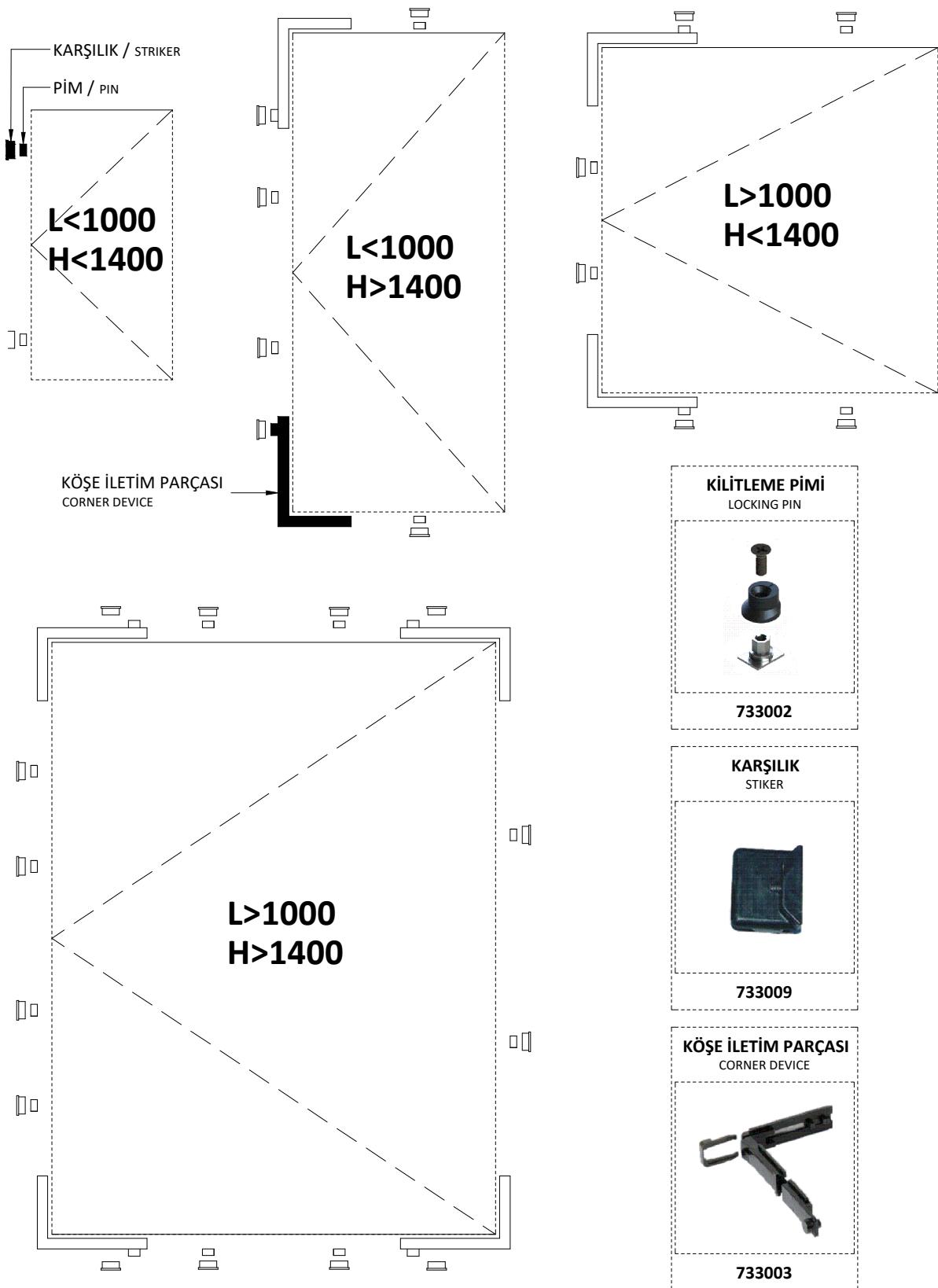
KOL CREMONE	ANAHTARLI KOL CREMONE WITH KEY	MEKANİZMA MECHANISM	AKILLI MEKANİZMA LOGICAL MECHANISM
613023	613020	513027	513028
MAKAS (80 kg) ARM	MAKAS (130 kg) ARM	MENTEŞE KİTİ (80 kg) HINGES	MENTEŞE SETİ (130 KG) HINGES
513037	513049	513030	513048
MENTEŞE KİTİ (170 kg) HINGES AND ARMS KIT	İLAVE KİLİTLEME ADDITIONAL FASTENING	İLAVE MAKAS ADDITIONAL ARM	
513053	513016	513017	

FERMOSA
SYSTEM

SMARTNESS 37 HINGED System

ŞEMA 1: TEK AÇILIM İÇİN KİLİTLEME ŞEMALARI

SCHEME 1: LOCKING SCHEMES FOR SIDE HUNG OPENING



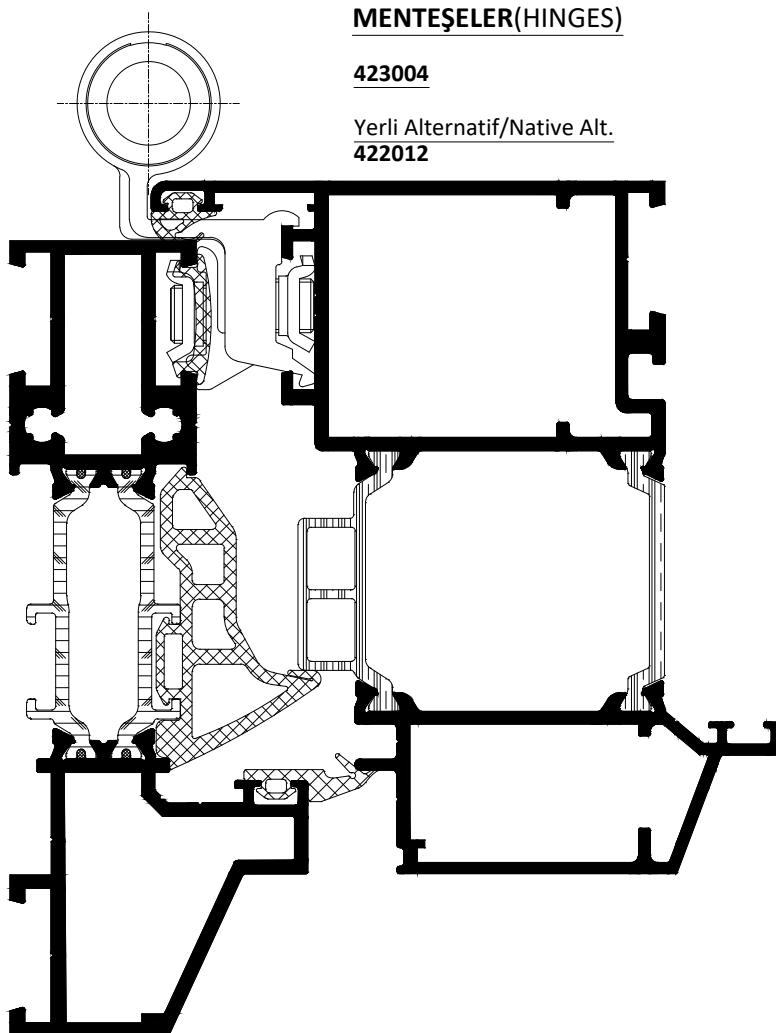
AKSESUARLAR / ACCESSORIES

FERMOSA
SYSTEM

SMARTNESS 37 HINGED System

BİNİLİ KAPILAR İÇİN MENTEŞE BAĞLANTI DETAYLARI HINGE CONNECTION DETAILS FOR THE STEP HINGE DOORS

İÇE AÇILIR BİNİLİ KAPILAR / INWARD OPENING STEP HINGE DOORS



MENTEŞELER(HINGES)

423004

Yerli Alternatif/Native Alt.

422012

AKSESUARLAR / ACCESSORIES

FERMOSA
SYSTEM

SMARTNESS 37 HINGED System

PENCERE MENTEŞESİ (85 KG)
WINDOW HINGE



*KAPASİTE: 85KG (3AD)
*CAPACITY: 85 KG (3 PCS)

413004

PENCERE MENTEŞESİ
WINDOW HINGE



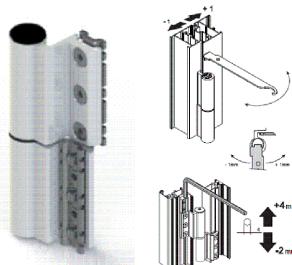
412013*

POLYAMİD TİJ
POLYAMIDE CONNECTION ROD



733007

AYARLI KAPI MENTEŞESİ (100 KG)
ADJUSTABLE DOOR HINGE



*KAPASİTESİ: 120 KG (3 AD)
* CAPACITY: 120 KG (3 PCS)

423004

AYARLI KAPI MENTEŞESİ
ADJUSTABLE DOOR HINGE



422012*

POLYAMİD TİJ KESME-DELME
MAKİNESİ (MANUEL)
POLYAMIDE ROD CUTTING AND DRILLING MACHINE



943086

TEK AÇILIM GİZLİ MENTEŞESİ (SOL)
SIDE HUNG HIDDEN HINGE FOR LEFT HAND



*SOLA AÇILAN KANAT İÇİNDİR.
* IT IS USED WITH LEFT HAND OPENING SASH.

513062

TEK AÇILIM GİZLİ MENTEŞESİ (SAĞI)
SIDE HUNG HIDDEN HINGE FOR RIGHT HAND



*SAĞA AÇILAN KANAT İÇİNDİR.
* IT IS USED WITH RIGHT HAND OPENING SASH.

513061

POLYAMİD TİJ KESME-DELME
MAKİNESİ (YARI OTOMATİK)
ROD CUTTING AND DRILLING MACHINE



943087

SMARTNESS 37 HINGED System

ÇİFT MAÇALI KOL
TWO-WAY CREMONE



613011

ÇİFT MAÇALI ANAHTARLI KOL
TWO-WAY CREMONE WITH KEY



613012

ÇİFT MAÇALI KOL
TWO-WAY CREMONE



613008

ÇİFT MAÇALI KOL
TWO-WAY CREMONE



613013

ÇİFT MAÇALI ANAHTARLI KOL
TWO-WAY CREMONE WITH KEY



613014

ÇİFT MAÇALI KOL
TWO-WAY CREMONE



613015

SÖKÜLEBİLİR KOL
AWAY CREMONE



613004

SÖKÜLEBİLİR KOL SAPI
PULL HANDLE FOR AWAY CREMONE



613005

ÇİFT MAÇALI ANAHTARLI KOL
TWO-WAY CREMONE WITH KEY



613016

AKSESUARLAR / ACCESSORIES

FERMOSA
SYSTEM

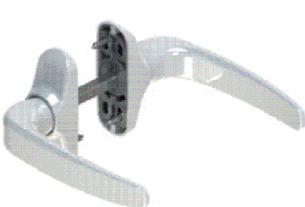
SMARTNESS 37 HINGED System

KAPI KOLU
DOOR HANDLE



623002

KAPI KOLU
DOOR HANDLE



623004

ÇİFT MAÇALI KOL
TWO-WAY CREMONE



612018*

SÖKÜLEBİLİR KOL
AWAY CREMONE



612016*

SÖKÜLEBİLİR KOL SAPI
PULL HANDLE FOR AWAY CREMONE



612017*

BAREL ROZETİ
CYLINDER COVER PLATE



622130*

KAPI KOLU
DOOR HANDLE



622134*

KAPI KOLU
DOOR HANDLE



622135*

BAREL ROZETİ
CYLINDER COVER PLATE



622136*

AKSESUARLAR / ACCESSORIES

FERMOSA
SYSTEM

SMARTNESS 37 HINGED System

ÇİFT MAÇALI KOL BAĞLANTILARI
TWO-WAY DRIVE ROD COMPONENTS



643004

İKİ YÖNLÜ KOL MEKANİZMASI
TWO-WAY MECHANISM FOR OUTWARD OPENNING



*613032 İLE ÇALIŞIR.
*IT WORKS WITH 613032.

643005

KANAT SARKMA TAKOZU
CHOCK FOR VENTS



732012*

ÇİFT MAÇALI KOL BAĞLANTILARI
TWO-WAY DRIVE ROD COMPONENTS



642003*

SABİT KARŞILIK
FIXED STRIKER



733009

AYARLI PİM
ADJUSTABLE FASTENING PAWL



733002

SABİT KARŞILIK
FIXED STRIKER



732009*

AYARLI PİM
ADJUSTABLE FASTENING PAWL



732002*

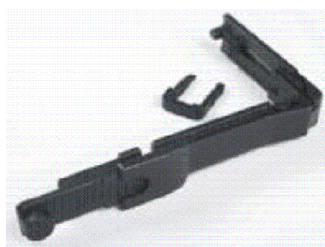
AKSESUARLAR / ACCESSORIES

FERMOSA

SYSTEM

SMARTNESS 37 HINGED System

KÖŞE İLETİM PARÇASI
CORNER DEVICE



733003

KÖŞE İLETİM PARÇASI
CORNER DEVICE



732003*

TAHLİYE KAPAĞI
DRAINAGE SLOT COVER



322022*

KANALLI KAPI SÜRGÜSÜ (220mm)
GROOVE DOOR BOLT



742001*

KANALLI PENCERE SÜRGÜSÜ (140mm)
GROOVE WINDOW BOLT



742002*

2.KANAT İÇİN İKİ YÖNLÜ SÜRGÜ SETİ
TWO-WAY LEVER BOLT KIT FOR SECONDARY SASH



743001

HEMYÜZ KAPI SÜRGÜSÜ (220mm)
FLUSH DOOR BOLT



742004*

HEMYÜZ PEN. SÜRGÜSÜ (140mm)
FLUSH WINDOW BOLT



742003*

2.KANAT İÇİN TEK YÖNLÜ SÜRGÜ SETİ
ONE-WAY BOLT KIT FOR SECONDARY SASH

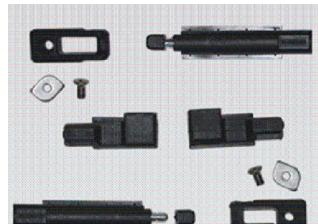


743002

AKSESUARLAR / ACCESSORIES

FERMOSA
SYSTEM

SMARTNESS 37 HINGED System

<p>ÇİFT MAÇALI KOL İLE KİLİTLEME SETİ KIT FOR TWO-WAY SASH CLOSING</p> 	<p>ÇİFT MAÇALI KOL İLE KİLİTLEME SETİ KIT FOR TWO-WAY SASH CLOSING</p> 	<p>VASİSTAS MANDALI TWIN CATCH</p> 
<p>773001</p>	<p>772001*</p>	<p>753006</p>
<p>VASİSTAS MAKAS 150 MM ARM FOR BOTTOM-HUNG 150 MM</p> 	<p>VASİSTAS MAKAS 150 MM ARM FOR BOTTOM-HUNG 150 MM</p> 	<p>VASİSTAS MANDALI TWIN CATCH</p> 
<p>453001</p>	<p>452005*</p>	<p>752005</p>
<p>VASİSTAS MAKAS 250 MM ARM FOR BOTTOM-HUNG 250 MM</p> 	<p>VASİSTAS MAKAS 250 MM ARM FOR BOTTOM-HUNG 250 MM</p> 	
<p>453002</p>	<p>452004*</p>	

FERMOSA
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SMARTNESS 37 HINGED System

DİLLİ KİLİT
LOCK WITH RAIL



712010

MAKARALI KİLİT
LOCK WITH ROLLER



712016

120mm BAREL
120mm CYLINDER



722044

DİLLİ KİLİT KARŞILIĞI
STRIKER FOR LOCK WITH RAIL



732021

MAKARALI KİLİT KARŞILIĞI
STRIKER FOR LOCK WITH ROLLER

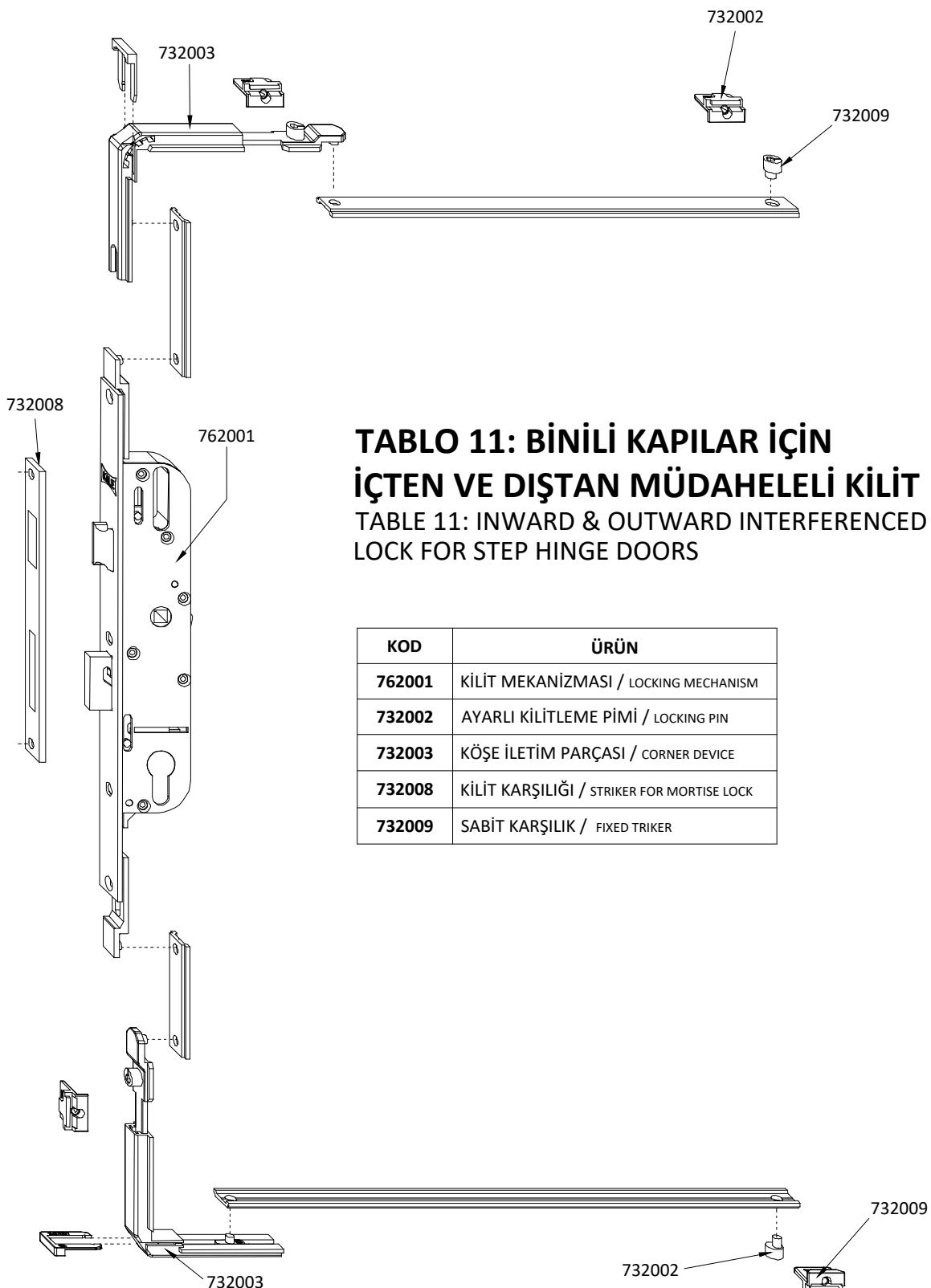


732022

SMARTNESS 37 HINGED System

KAPI KİLİTLEME SETİ

DOOR LOCKING KIT



**TABLO 11: BİNİLİ KAPILAR İÇİN
İÇTEN VE DIŞTAN MÜDAHELELİ KİLİT**
TABLE 11: INWARD & OUTWARD INTERFERENCED
LOCK FOR STEP HINGE DOORS

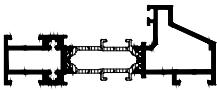
KOD	ÜRÜN
762001	KİLİT MEKANİZMASI / LOCKING MECHANISM
732002	AYARLI KİLİTLEME PİMİ / LOCKING PIN
732003	KÖSE İLETİM PARÇASI / CORNER DEVICE
732008	KİLİT KARŞILIĞI / STRIKER FOR MORTISE LOCK
732009	SABİT KARŞILIĞI / FIXED TRIKER

AKSESUARLAR / ACCESSORIES

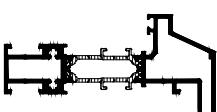
FERMOSA
SYSTEM

SMARTNESS 37 HINGED System

KULLANIM ŞARTLAR



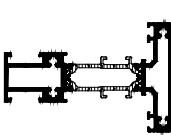
Profiller, folyolu muhafaza edilmeli, folyoları inşaat bitiminde çıkartılmalıdır. Kireç ve çimento gibi inşaat malzemeleri alüminyum yüzeylerle temas etmemelidir. Profiller binaya uygulandıktan sonra düzenli aralıklarla temizlenmelidir. Profillerin temizliği, hafifçe sabunlu ılık su ve/veya bu suyla 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 fitilme, 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 eloksalı ve tekrar yerine takılması ile sınırlı olacaktır. Yukarıda bahsedilmeyen konular iş hukukuna tabidir.



Mimari sistem katalogunda belirtilmeyen veya Burak Alüminyum'un onay vermediği aksesuar ve sarf malzemesi kullanımından doğabilecek her türlü sorumluluk uygulamacı firmaya aittir. Mimari sistem katalogunda belirtilen detay ve sistem çözümleri haricindeki uygulamalar için Burak Alüminyum'un onayı alınmalıdır. Aksi taktirde bu uygulamalardan meydana gelebilecek problem ve aksaklılıklardan Burak Alüminyum sorumlu değildir.



TERMS OF SERVICE

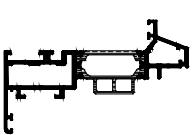
Profiles must be protected with folio tapes and they must be taken out when the structure was finished. Building materials as similar lime and cement must not be touched with the aluminium surfaces.

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 were 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 labor law.

Builder is responsible for all conditions by using of accessories and consumables that did not confirm 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 system. If not Burak Aluminium is not responsible because of any wrong applications.

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SYSTEM

FERMOSA

SYSTEM



TS-EN-755-1/8/9
TS-EN-12020-1/2
TS-EN-4922



ISO 9001:2008
ISO 14001:2004
OHSAS 18001:2007



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