

**AKPAi**  
ALUMINIUM

## Catalog

Door and Window & of Facade  
SYSTEMS

Version **01**

**2023-2024**

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# AKPAi

ALUMINIUM

| 6063 -T4 Mechanical Analysis     |                 |                                    |
|----------------------------------|-----------------|------------------------------------|
| Physical & mechanical properties | Metric system   | English system                     |
| Density                          | 2.7 g/cc        | 0.0975 lb/in <sup>3</sup>          |
| Brinell hardness                 | 60-65           | 60-65                              |
| Ultimate tensile strength        | 172 MPa         | 25000 psi                          |
| Tensile strength                 | 89.6 MPa        | 13000 psi                          |
| Length increase at break point   | 22 %            | 22 %                               |
| Modulus of elasticity            | 68.9 GPa        | 10000 ksi                          |
| Poisson ratio                    | 0.33            | 0.33                               |
| Machining                        | 50 %            | 50 %                               |
| Shear modulus                    | 25.8 GPa        | 3740 ksi                           |
| Shear strength                   | 110 MPa         | 16000 psi                          |
| electrical resistance            | 3.3e-006 ohm-cm | 3.3e-006 ohm-cm                    |
| F ° 68 line CTE                  | 23.4 µm/m-°C    | 13 µin/in-°F                       |
| C °250 line CTE                  | 25.6 µm/m-°C    | 14.2 µin/in-°F                     |
| Specific heat capacity           | 0.9 J/g-°C      | 0.215 BTU/lb-°F                    |
| Thermal conductivity             | 200 W/m-K       | 1390 BTU-in/hr-ft <sup>2</sup> -°F |
| Melting point                    | 616 - 654 °C    | 1140 – 1120 °F                     |
| Freezing line                    | 616 °C          | 1140 °F                            |
| liquidus                         | 654 °C          | 1210 °F                            |
| Annealing                        | 413 °C          | 775 °F                             |
| Soluble temperature              | 521 °C          | 970 °F                             |
| Aging tempeature                 | 177 °C          | 350 °F                             |

| 6063 -T4 Chemical analysis |          |          |          |          |           |            |           |          |                  |
|----------------------------|----------|----------|----------|----------|-----------|------------|-----------|----------|------------------|
| Aluminium                  | Copper   | Chrome   | Titanium | Zinc     | Silicone  | Magnesium  | Iron      | Mangans  | Chemical Element |
| Balance                    | 0.0-0.10 | 0.0-0.10 | 0.0-0.10 | 0.0-0.10 | 0.20-0.60 | 0.45 -0.90 | 0.0 -0.35 | 0.0-0.10 | Percent          |

برآورد و محاسبات سیستم در و پنجره و سیستم کترین وال با نرم افزار **Orgadata** مورد تایید می باشد.

Door and window as well as the Curtain wall systems estimation and calculation are approved in the **Orgadata** software.



Hinged Systems | سیستم های لولایی

|    |  |   |       |             |
|----|--|---|-------|-------------|
| 16 | Thermal Break Hinged Door & window             | درب و پنجره لولایی ترمال بریک           | TH90  | New Product |
| 17 | Thermal Break Hidden Vent Hinged Door & Window | درب و پنجره لولایی لنگه مخفی ترمال بریک | TH78  |             |
| 18 | Thermal Break Hinged Door                      | درب لولایی ترمال بریک                   | TH75H |             |
| 19 | Thermal Break Hinged window                    | پنجره لولایی ترمال بریک                 | TH75L |             |
| 20 | Thermal Break Hidden Vent Hinged Door & Window | درب و پنجره لولایی لنگه مخفی ترمال بریک | TH68  |             |
| 21 | Thermal Break Hinged Door & window             | درب و پنجره لولایی ترمال بریک           | TH60  |             |
| 22 | Thermal Break Hinged Door & window             | درب و پنجره لولایی ترمال بریک           | FTH60 | New Product |
| 23 | Hidden vent hinged window                      | پنجره لولایی لنگه مخفی                  | TH55L |             |
| 24 | Thermal Break Hinged Door & window             | درب و پنجره لولایی ترمال بریک           | TH55  |             |
| 25 | Hinged Door                                    | درب لولایی                              | AH74  |             |
| 26 | Hinged Door & Window                           | درب و پنجره لولایی نرمال تخت            | AH60  | New Product |
| 27 | Hinged Door                                    | درب لولایی                              | AH59  |             |
| 28 | Hinged window                                  | پنجره لولایی                            | AH56  |             |
| 29 | Monorail Thermal Break Sliding Window          | پنجره لولایی                            | AH47  |             |
| 30 | Hinged Door & window                           | درب و پنجره لولایی                      | AH42  |             |
| 31 | Hinged Window Joint with Rebar Steel           | درب پنجره لولایی نصب با میلگرد          | AH35  |             |

Sliding Systems | سیستم های کشویی

|    |  |                                      |        |             |
|----|--|--------------------------------------|--------|-------------|
| 34 | Thermal Break Sliding Patio Door             | درب کشویی دفنی ترمال بریک کشویی      | TS168  |             |
| 35 | Thermal Break Sliding Door & Window          | درب و پنجره ترمال بریک کشویی         | TS143  |             |
| 36 | Thermal Break Monorail Sliding Door & Window | درب و پنجره کشویی مونوریل ترمال بریک | MTS143 |             |
| 37 | Thermal Break Normal Sliding Window          | پنجره کشویی معمولی ترمال بریک        | TS115  |             |
| 38 | Thermal Break Monorail Sliding Door & Window | درب و پنجره کشویی مونوریل ترمال بریک | MTS115 |             |
| 39 | Thermal Break Sliding Window                 | پنجره ترمال بریک کشویی               | TS94   |             |
| 40 | Thermal Break Sliding Window                 | پنجره ترمال بریک کشویی               | TS77   |             |
| 41 | Monorail Thermal Break Sliding Window        | پنجره مونوریل ترمال بریک کشویی       | MTS77  |             |
| 42 | Sliding Window                               | پنجره کشویی                          | AS90   |             |
| 43 | Sliding Window                               | پنجره کشویی                          | AS74   |             |
| 44 | Sliding Window                               | پنجره کشویی                          | AS60   |             |
| 45 | Sliding Window                               | فریم جدید پنجره کشویی                | AS60   | New Product |
| 46 | Monorail Sliding Window                      | پنجره مونوریل کشویی                  | MAS60  |             |
| 47 | Sliding Window                               | پنجره کشویی                          | AS55   |             |

Additional Systems | سیستم های الحاقی

|    |                                   |                                     |             |
|----|-----------------------------------|-------------------------------------|-------------|
| 50 | Folding Door System               | سیستم درب آکاردئونی                 |             |
| 51 | Partition System                  | سیستم پارتیشن                       |             |
| 52 | Glass Handrail System - two piece | سیستم نرده شیشه ای دو تکه           |             |
| 53 | Glass Handrail System - one piece | سیستم نرده شیشه ای یک تکه           |             |
| 54 | Side Fix Glass Support System     | سیستم نرده شیشه ای نصب به بیرون سطح |             |
| 55 | Outdoor Handrail Lighting         | سیستم نرده شیشه ای چراغ دار         | New Product |
| 56 | Glass Balustrade System           | سیستم جام بالکنی                    |             |
| 57 | Glass Balustrade System           | سیستم جام بالکنی                    | New Product |
| 58 | Roll-up Door System               | سیستم درب کرکره ای                  |             |
| 59 | Grid System                       | سیستم توری                          |             |
| 60 | Pelisse Grid System               | سیستم توری پلیسه                    |             |
| 61 | Sliding Fly Screen                | سیستم توری متحرک                    | New Product |
| 62 | Pipe Aluminium Handrail System    | سیستم نرده آلومینیومی لوله ای       |             |
| 63 | Square Aluminium Handrail System  | سیستم نرده آلومینیومی مربعی         |             |
| 64 | Frameless System                  | سیستم فریم لس                       |             |
| 65 | Glass Support Profiles            | پروفیل های شیشه سکوریت              |             |
| 66 | AW110 System                      | وینتر گاردن                         | New Product |
| 67 | AFW135 System                     | وینتر گاردن                         | New Product |
| 68 | SES - D1                          | کاور پنجره های هوشمند               | New Product |
| 69 | Automatic Door                    | درب اتوماتیک                        |             |
| 70 | Louvre System                     | سیستم لوور                          |             |
| 71 | Guillotine System                 | سیستم گیوتین جام                    |             |

Smart systems | سیستم های هوشمند

|    |                                  |                               |             |
|----|----------------------------------|-------------------------------|-------------|
| 74 | Hinden vent hinged Window        | درب و پنجره ترمال بریک کشویی  | TS143       |
| 75 | Thermal Break Sliding Patio Door | پنجره کشویی معمولی ترمال بریک | TS115       |
| 76 | Glass Roof System                | سیستم سقف شیشه ای             | New Product |
| 77 | Smart Louvre System              | سیستم هوشمند لوور             |             |

|    |   |   |
|----|---|---|
| 80 | Thermal Break Caped Curtain Wall System           | سیستم کرتین وال ترمال بریک کپ دار             |
| 81 | Thermal Break Semi Caped Curtain Wall System      | سیستم کرتین وال ترمال بریک نیم کپ             |
| 82 | Modules System with Structural Glazing            | سیستم کرتین وال فریم لس                       |
| 83 | 65mm Steel Reinforced Facade System               | سیستم کرتین وال تقویتی با فولاد ۶۵ میلیمتری   |
| 84 | 75mm Steel Reinforced Facade System               | سیستم کرتین وال تقویتی با فولاد ۷۵ میلیمتری   |
| 85 | Skylight Facade System                            | سیستم کرتین وال اسکای لایت                    |
| 86 | Structural Glazing System Install with Fix Piece  | سیستم کرتین وال یو-چنل (نصب با لقمه فیکس)     |
| 87 | Hidden Vent Curtain Wall System                   | سیستم کرتین وال نیم لامل لنگه مخفی            |
| 88 | Hidden Vent Glazing Curtain Wall System           | سیستم کرتین وال نیم لامل لنگه مخفی و یو - چنل |
| 89 | Structural Glazing 60mm Caped Curtain Wall System | سیستم کرتین وال کپ دار ۶۰ میلیمتری            |
| 90 | 6mm Ceramic Facade System                         | سیستم سرامیک نما ۶ میلیمتر (نصب با چسب)       |
| 91 | Composite Panel System                            | سیستم ورق کامپوزیت                            |
| 92 | COTTAL Aluminum Cladding System                   | سیستم پوشش آلومینیومی                         |

**AKPA Iran Company**, the manufacturer of Aluminum Profiles (Normal and Thermal Break) And Metal Painting with electrostatic (powder), decorative and anodizing methods, was established in 2008 in a 53,000 square meters land in a foreign investment town . AKPA Iran Company is one of the most successful manufacturers of aluminum profiles in Iran which has achieved the highest volume of dedicated profile production, in the shortest period of time, using the science and experience of its managers, relying on customer - oriented policies and improving the quality of manufactured products. So today we are seeing a 700 percent increase in production capacity compared to the first utilization rate. Since upgrading the quality of manufactured products has always been one of the pillars of quality system management in AKPA Iran Company, the company has succeeded in obtaining Iran national standard certification, technical certification in the field of heat breaker aluminum profile production from the Research Center of Ministry of Road, Housing and Urban Development, from 2012 to 2022, by establishing and implementing the necessary guidelines and procedures. The management system certifications are as follow:

**ISO 9001:2015 - ISO 14001:2015 - ISO 45001:2018**  
**ISO 10002:2018 ISO 10004:2018 - ISO 50001:2011 - 5S - CE**  
 Customer orientation is one of the main policies of **AKPA Iran Company** and has always focused on consumer support. Other honors of the company include:

- Awarded the top brand of aluminum profile production by the Aluminum Syndicate of Iran for eight consecutive years from 2012 to 2022
- Provincial Top unit in 2010-2013-2018-2019-2021 (5years)
- Top Entrepreneur in 2011-2015-2017-2019-2021 (5 years)
- Golden Statue of Consumer Rights Observance in 2018-2022 (5 years)

**شرکت آکپا ایران** تولید کننده انواع پروفیل های اختصاصی آلومینیوم (نرمال و نرمال بریک) و رنگ کاری فلزات به روش های الکترواستاتیک (پودری)، دکورال و آنادایزینگ در سال ۱۳۸۷ در زمینی به مساحت ۵۳۰۰۰ متر مربع در شهرک سرمایه گذاری خارجی و با سرمایه گذاری بخش خصوصی و مشارکت شرکت آکپای ترکیه به بهره برداری رسید.

شرکت آکپا ایران را می توان در زمره موفق ترین تولید کنندگان پروفیل های آلومینیومی در ایران دانست که با استفاده از گنجینه علمی و تجربی مدیران خود و اتکاء برسیاست مشتری مداری و ارتقاء کیفیت محصولات تولیدی توانسته است در کوتاهترین مدت، بیشترین حجم تولید پروفیل های اختصاصی آلومینیوم کشور را به خود اختصاص دهد، به طوری که امروزه شاهد افزایش ۷۰۰ درصدی توان تولید نسبت به زمان بهره برداری می باشیم. از آنجا که ارتقاء سطح کیفی محصولات تولیدی همواره یکی از ارکان مدیریت سیستم کیفیت شرکت آکپا ایران می باشد، لذا این شرکت با استقرار و پیاده سازی دستورالعمل ها و روش های اجرایی لازم، موفق به اخذ گواهینامه استاندارد ملی ایران، گواهینامه فنی در زمینه تولید پروفیل های آلومینیومی حرارت شکن از مرکز تحقیقات وزارت راه، مسکن و شهرسازی از سال ۱۳۹۱ الی ۱۴۰۱ و گواهینامه های سیستم مدیریت کیفیت به شرح ذیل گردیده است:

**ISO 9001:2015 - ISO 14001:2015 - ISO 45001:2018**  
**ISO 10002:2018 - ISO 10004:2018 - ISO 50001:2018 - 5S - CE**

مشتری مداری یکی از اصلی ترین سیاست های شرکت آکپا ایران بوده و همواره توجه خود را به حمایت از مصرف کنندگان معطوف نموده است.

از سایر افتخارات این شرکت می توان به موارد ذیل اشاره نمود:

- برند برتر تولید پروفیل های آلومینیومی از طرف سندیکای بین المللی آلومینیوم کشور طی پنج دوره ۱۰ سال متوالی در سالهای ۱۳۹۲ الی ۱۴۰۲
- واحد نمونه استانی در سالهای ۸۹ - ۹۲ - ۹۷ - ۹۸ - ۱۴۰۰ (۵ دوره)
- کارآفرین برتر در سالهای ۸۹ - ۹۳ - ۹۵ - ۹۹ - ۱۴۰۰ (۵ دوره)
- تندیس پلائی رعایت حقوق مصرف کنندگان در سالهای ۹۶ - ۹۷ - ۹۸ - ۹۹ - ۱۴۰۰ (۶ دوره)



## Production Process

Aluminum Profiles in Proprietary  
and Thermal break Types with  
Modern European Technology



1

- 1 Department of Design And Fabrication of Dies
- 2 Extrusion Press Machine 1600 Tons (6 Inches)
- 3 Extrusion Press Machine 1800 Tons (7 Inches)
- 4 Extrusion Press Machine 2200 Tons (8 Inches)

- 1 واحد طراحی و ساخت قالب
- 2 پرس اکستروژن 1600 تن (6 اینچ)
- 3 پرس اکستروژن 1800 تن (7 اینچ)
- 4 پرس اکستروژن 2200 تن (8 اینچ)



**2** 1600 tons



**3** 1800 tons







## Production Process

Aluminum Profiles in Proprietary and Thermalbreak Types with Modern European Technology

**4** Extrusion Press Machine 2200 Tons (8 Inches)

**5** Fully Automatic Conveyors Tables with Smart Puller, Stretch and Cutting Machine

**4** پرس اکستروژن 2200 تن ( 8 اینچ )

**5** میز های نواری تمام خودکار با پولر هوشمند، استرچ و دستگاه برش

## Production Process

Aluminum Profiles in Proprietary and Thermalbreak Types with Modern European Technology



6



7



6 Aging oven

7 Product line of thermal break profiles

6 کوره ایجینگ پروفیل

7 خط تولید پروفیل های ترمال بریک



## Production Process

Aluminum Profiles in Proprietary and Thermalbreak Types with Modern European Technology

- 8** Polishing profiles Line
- 9** Aluminum powder coating (White and color line)

- 8** خطوط پولیش پروفیل
- 9** پوشش آلومینیوم با رنگ پودری (با دوخت سفید و الوان)

10



## Production Process

Aluminum Profiles in Proprietary  
and Thermalbreak Types with  
Modern European Technology



10 Anodizing profiles Line

10 خط آنادایزینگ (آبکاری)

# Production Process

Aluminum Profiles in Proprietary and Thermalbreak Types with Modern European Technology

11



12



13



14



- 11 Product line of decoral profiles (with wood scheme)
- 12 Shot blast process
- 13 Profile packing machine
- 14 Technical laboratory and quality control department

- 11 خط رنگ پروفیل دکورال (با طرح چوب)
- 12 خطوط تولید پروفیل سات پلاست
- 13 دستگاه بسته بندی پروفیل
- 14 آزمایشگاه فنی و واحد کنترل کیفیت



# Hinged Systems

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# HINGED SYSTEMS

## HINGED SYSTEMS

### HINGED SYSTEMS

#### HINGED SYSTEMS

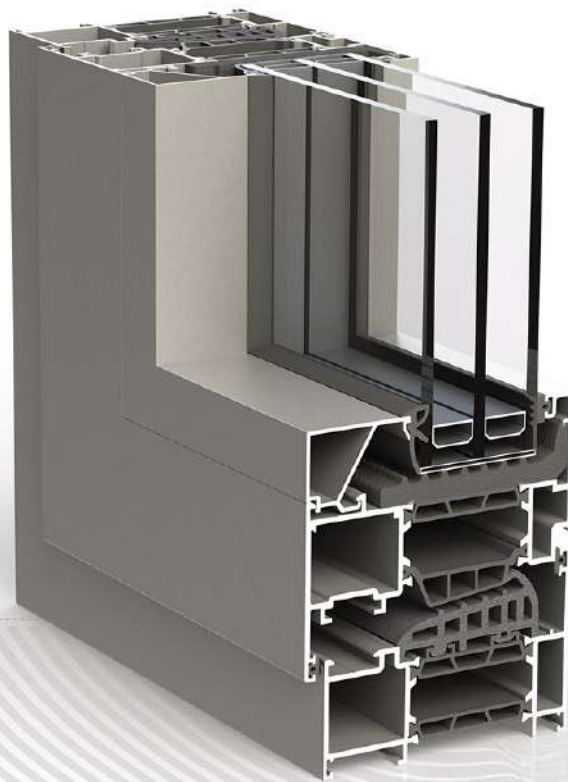
##### HINGED SYSTEMS

## سیستم های لولایی

### Hinged Systems

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| TH55<br>24 | AH74<br>25 | AH60<br>26  | AH59<br>27  | AH56<br>28 | AH47<br>29 | AH42<br>30  | AH35<br>31  |



# TH90

Hinged Door & Window  
 Hidden vent Hinged Window  
 Uf: 0.758 W(m2.k)

Thermal Break



آموزش مونتاژ

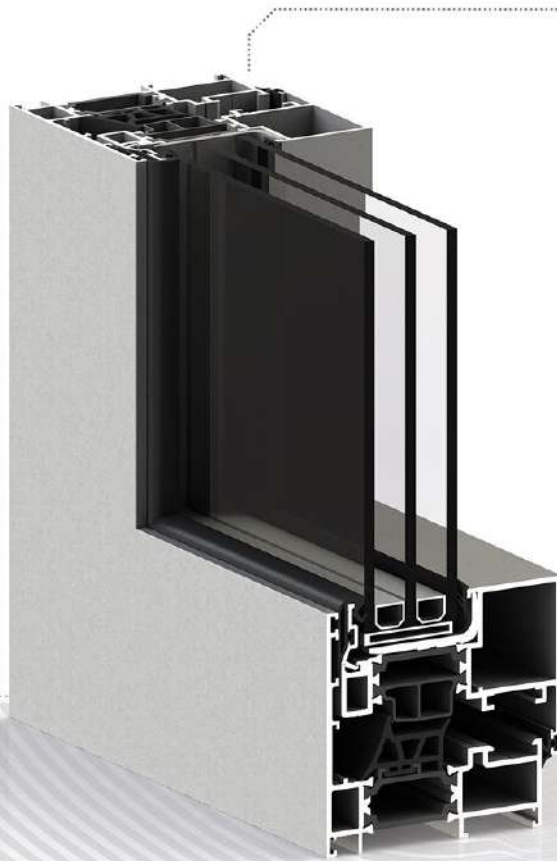
## System Specification

Possibility to install European fittings **EPDM identification and sealing gaskets**

|                                    |   |
|------------------------------------|---|
| Product code:                      | TH90  |
| Frame width:                       | 90 mm                                       |
| Sash width:                        | 96 mm                                       |
| Wall thickness:                    | 5.2 - 1.8 mm                                |
| Polyamide size:                    | 45 mm                                       |
| Thermal guidance with 33 mm glass: | Uf: 0.7w/m2k                                |
| Appearance:                        | Flat and smooth from the outside and inside |
| Type of corner fixture:            | Riveted                                     |
| Thickness of glass:                | 42 to 60 mm                                 |
|                                    |   |
|                                    |   |
|                                    |   |







# TH78

*Hinged Door & Window*  
*Hidden vent Hinged Window*  
*Uf: 1.83 W(m2.k)*

Thermal Break



آموزش مونتاژ

## System Specification

Possibility to install European fittings **EPDM identification and sealing gaskets**

|                                    |   |
|------------------------------------|---|
| Product code:                      | TH78  |
| Frame width:                       | 78 mm                                       |
| Sash width:                        | 85 mm                                       |
| Wall thickness:                    | 1.7 - 1.8 mm                                |
| Polyamide size:                    | 34 mm                                       |
| Thermal guidance with 33 mm glass: | Uf: 1.83w/m2k                               |
| Appearance:                        | Flat and smooth from the outside and inside |
| Type of corner fixture:            | Riveted                                     |
| Thickness of glass:                | 30 to 54 mm                                 |
|                                    |   |
|                                    |   |
|                                    |   |





# TH75H

*Hinged Door*

Thermal Break



آموزش، مونتاژ

## System Specification

Possibility to install European fittings **EPDM identification and sealing gaskets**

|                         |   |
|-------------------------|---|
| Product code:           | TH75H   |
| Frame width:            | 75 -143 mm                                    |
| Sash width:             | 66.6 mm                                       |
| Wall thickness:         | 1.3 - 1.5mm                                   |
| Polyamide size:         | 15 - 18 mm                                    |
| Appearance:             | Curved and arched from the outside and inside |
| Type of corner fixture: | Riveted                                       |
| Thickness of glass:     | 6 to 38 mm                                    |
|                         |   |
|                         |   |
|                         |   |
|                         |   |





# TH75L

Hinged Window

Thermal Break



آموزش مونتاژ

## System Specification

Possibility to install European fittings **EPDM identification and sealing gaskets**

|                         |   |
|-------------------------|---|
| Product code:           | TH75L   |
| Frame width:            | 75 - 143 mm                                   |
| Sash width:             | 66.6 mm                                       |
| Wall thickness:         | 1.3 - 1.5mm                                   |
| Polyamide size:         | 15 - 18 mm                                    |
| Appearance:             | Curved and arched from the outside and inside |
| Type of corner fixture: | Riveted                                       |
| Thickness of glass:     | 6 to 38 mm                                    |
|                         |   |
|                         |   |
|                         |   |
|                         |   |





# TH68

Hinged Door & Window  
 Hidden vent Hinged Window  
 Uf: 2.80 W (m2.k)

Thermal Break



آموزش مونتاژ

## System Specification

Possibility to install European fittings **EPDM identification and sealing gaskets**

|                                    |   |
|------------------------------------|---|
| Product code:                      | TH68  |
| Frame width:                       | 68 mm                                       |
| Sash width:                        | 75 mm                                       |
| Wall thickness:                    | 1.7-1.8 mm                                  |
| Polyamide size:                    | 24 mm                                       |
| Thermal guidance with 30 mm glass: | Uf: 2.80w/m2k                               |
| Appearance:                        | Flat and smooth from the outside and inside |
| Type of corner fixture:            | Riveted                                     |
| Thickness of glass:                | 20 to 54 mm                                 |
|                                    |   |
|                                    |   |
|                                    |   |





# TH60

Hinged Door & Window

Uf: 2.64 W(m2.k)

Thermal Break



آموزش مونتاژ

## System Specification

Ability to install UPVC - French fittings

Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | TH60  |
| Frame width:            | 60 - 69.6 - 77.4 - 94 - 114.5 mm              |
| Sash width:             | 65 mm   |
| Wall thickness:         | 1.3 - 1.8 mm                                  |
| Polyamide size:         | 15 - 24 mm                                    |
| Thermal conductivity:   | Uf: 2.64w/m2k                                 |
| Appearance:             | Curved and arched from the outside and inside |
| Type of corner fixture: | Riveted                                       |
| Thickness of glass:     | 8 to 44 mm                                    |

Type OF opening

Turn

Tilt and Turn

Hidden vent

French

Parallel

Tilt and Slide

Pivot

Friction

New Production



# FTH60

Hinged Door & Window

Uf: 2.64 W(m2.k)

Thermal Break



آموزش مونتاژ

## System Specification

Ability to install UPVC - French fittings

Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | FTH60   |
| Frame width:            | 60 - 69.6 - 77.4 - 94 - 114.5 mm              |
| Sash width:             | 65 mm   |
| Wall thickness:         | 1.3 -1.8 mm                                   |
| Polyamide size:         | 15 - 24 mm                                    |
| Thermal conductivity:   | Uf: 2.64w/m2k                                 |
| Appearance:             | Curved and arched from the outside and inside |
| Type of corner fixture: | Riveted                                       |
| Thickness of glass:     | 8 to 44 mm                                    |



Turn

Tilt and Turn

Hidden vent

French

Parallel

Tilt and Slide

Pivot

Friction



# TH55L

*Hinged Window*  
*Thermal Break Hidden Vent*  
*Uf: 1.87 W (m2.k)*

Thermal Break



آموزش مونتاژ

## System Specification

Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | TH55L                                   |
| Frame width:            | 55 mm                                   |
| Sash width:             | 64 mm                                   |
| Wall thickness:         | 1.4 -1.5mm                              |
| Polyamide size:         | Uf: 1.87w/m2k                           |
| Thermal conductivity:   | 20 mm                                   |
| Appearance:             | Flat and smooth profile of the exterior |
| Type of corner fixture: | Riveted                                 |
| Thickness of glass:     | 24 mm                                   |
|                         |   |
|                         |   |
|                         |   |





آموزش، مونتاژ

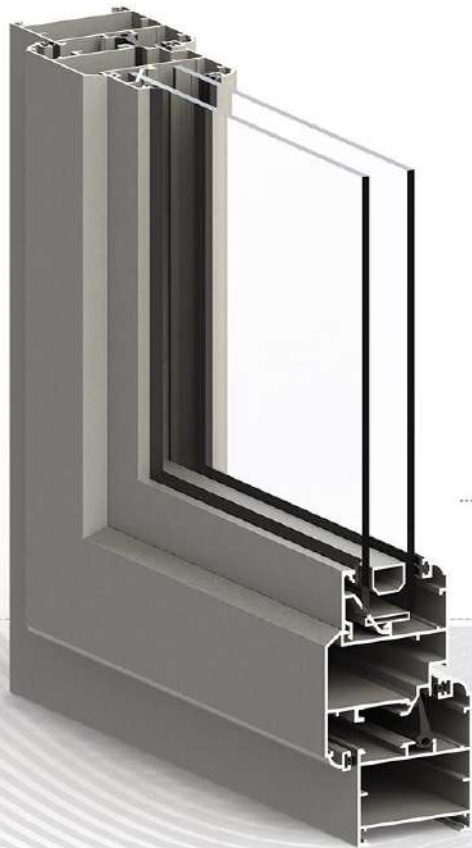
## System Specification

Possibility to install European fittings **EPDM identification and sealing gaskets**

|                         |   |
|-------------------------|---|
| Product code:           | TH55                                    |
| Frame width:            | 55 mm                                   |
| Sash width:             | 62.3 mm                                 |
| Wall thickness:         | 1.3 - 1.4 mm                            |
| Thermal conductivity:   | Uf: 2.58w/m2k                           |
| Polyamide size:         | 24 mm                                   |
| Appearance:             | Flat and smooth profile of the exterior |
| Type of corner fixture: | Riveted                                 |
| Thickness of glass:     | 6 to 42 mm                              |
|                         |   |
|                         |   |
|                         |   |







# AH74

*Hinged Door*  
*Thermal Break*  
*Uf: 6.2W (m2.k)*



آموزش مونتاژ

## System Specification

Possibility to install European fittings **EPDM identification and sealing gaskets**

|                         |   |
|-------------------------|---|
| Product code:           | AH74  |
| Frame width:            | 45 - 74 mm  |
| Sash width:             | 52 - 61 mm  |
| Wall thickness:         | 1.3 mm  |
| Thermal conductivity:   | Uf: 6.2w/m2k  |
| Appearance:             | Curved and arched from the outside and inside - Flat and smooth from the outside and inside |
| Type of corner fixture: | Punch punches and Allen punches   |
| Thickness of glass:     | 6 to 32 mm  |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |



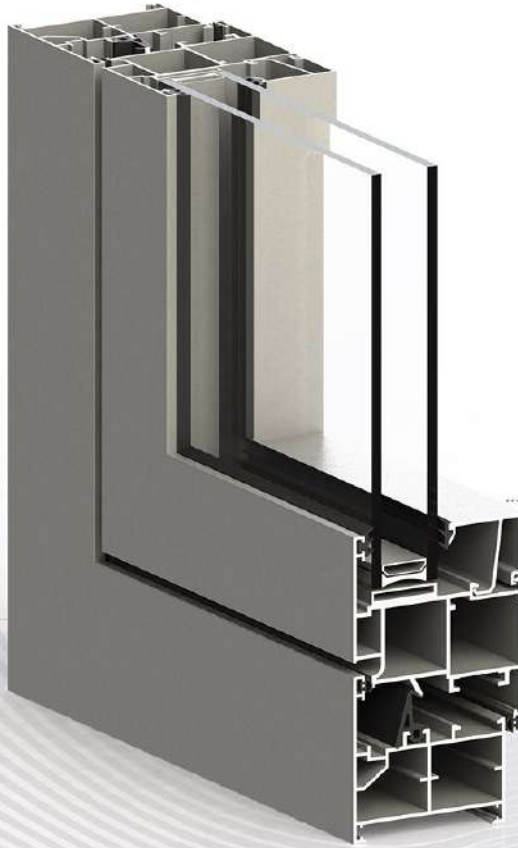
New Production

# AH60

Hinged Door & Window

Thermal Break

Uf: 2.64 W(m2.k)



آموزش مونتاژ

## System Specification

Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | AH60  |
| Frame width:            | 60 - 69.6 - 77.4 - 94 - 114.5 mm              |
| Sash width:             | 65 mm   |
| Wall thickness:         | 1.3 - 1.8 mm                                  |
| Polyamide size:         | 15 - 24 mm                                    |
| Thermal conductivity:   | Uf: 2.64w/m2k                                 |
| Appearance:             | Curved and arched from the outside and inside |
| Type of corner fixture: | Riveted                                       |
| Thickness of glass:     | 8 to 44 mm                                    |
|                         |   |
|                         |   |
|                         |   |

Type OF opening

Turn

Tilt and Turn

Hidden vent

French

Parallel

Tilt and Slide

Pivot

Friction



# AH59

*Hinged Door*



آموزش، مونتاژ

## System Specification

Possibility to install European fittings **EPDM identification and sealing gaskets**

|                         |   |
|-------------------------|---|
| Product code:           | AH59  |
| Frame width:            | 42 - 47 - 59 - 90 - 100 mm                    |
| Sash width:             | 44 - 51.1 mm                                  |
| Wall thickness:         | 1.3 mm  |
| Appearance:             | Curved and arched from the outside and inside |
| Type of corner fixture: | Punch punches and Allen punches               |
| Thickness of glass:     | 6 to 24 mm                                    |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |





# AH56

Hinged Window

Uf: 6.2W (m2.k)



آموزش مونتاژ

## System Specification

Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | AH56  |
| Frame width:            | 45 - 56 - 74 mm   |
| Sash width:             | 52.1 - 61 mm  |
| Wall thickness:         | 1.3 mm  |
| Thermal conductivity:   | Uf: 6.2w/m2k  |
| Appearance:             | Curved and arched from the outside and inside - Flat and smooth from the outside and inside |
| Type of corner fixture: | Punch punches and Allen punches   |
| Thickness of glass:     | 6 to 32 mm  |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |





# AH47

*Hinged Window*



آموزش، مونتاژ

## System Specification

Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | AH47  |
| Frame width:            | 42 - 47 - 59 - 90 - 100 mm                    |
| Sash width:             | 44 - 51.1 mm                                  |
| Wall thickness:         | 1.3 mm  |
| Glass thickness:        | 6 to 24 mm                                    |
| Appearance:             | Curved and arched from the outside and inside |
| Type of corner fixture: | Punch punches and Allen punches               |
| Thickness of glass:     | 6 to 24 mm                                    |
|                         |   |
|                         |   |
|                         |   |
|                         |   |





# AH42

Hinged Door & Window



آموزش مونتاژ

## System Specification

Possibility to install European fittings **EPDM identification and sealing gaskets**

|                         |   |
|-------------------------|---|
| Product code:           | AH42  |
| Frame width:            | 42 - 47 - 59 - 90 - 100 mm                    |
| Sash width:             | 44 - 51.1 mm                                  |
| Wall thickness:         | 1.3 mm  |
| Glass thickness:        | 6 to 24 mm                                    |
| Appearance:             | Curved and arched from the outside and inside |
| Type of corner fixture: | Punch punches and Allen punches               |
| Thickness of glass:     | 6 to 24 mm                                    |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |





# AH35

*Hinged Door & Window  
Joint with Steel Rebar*



آموزش، مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | AH35  |
| Frame width:            | 35 mm                                       |
| Sash width:             | 35 mm                                       |
| Wall thickness:         | 1.6 mm                                      |
| Glass thickness:        | 6 to 20 mm                                  |
| Appearance:             | Flat and smooth from the outside and inside |
| Type of corner fixture: | Steel rebar                                 |
| Thickness of glass:     | 6 to 24 mm                                  |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |





# Sliding Systems

NG SLIDING  
M S  
DING SLIDING  
SYSTEMS  
G SLIDING SLIDING SLIDING  
SYSTEMS SYSTEMS  
SLIDING 3 2 SLIDING  
C SLIDING C SLIDING

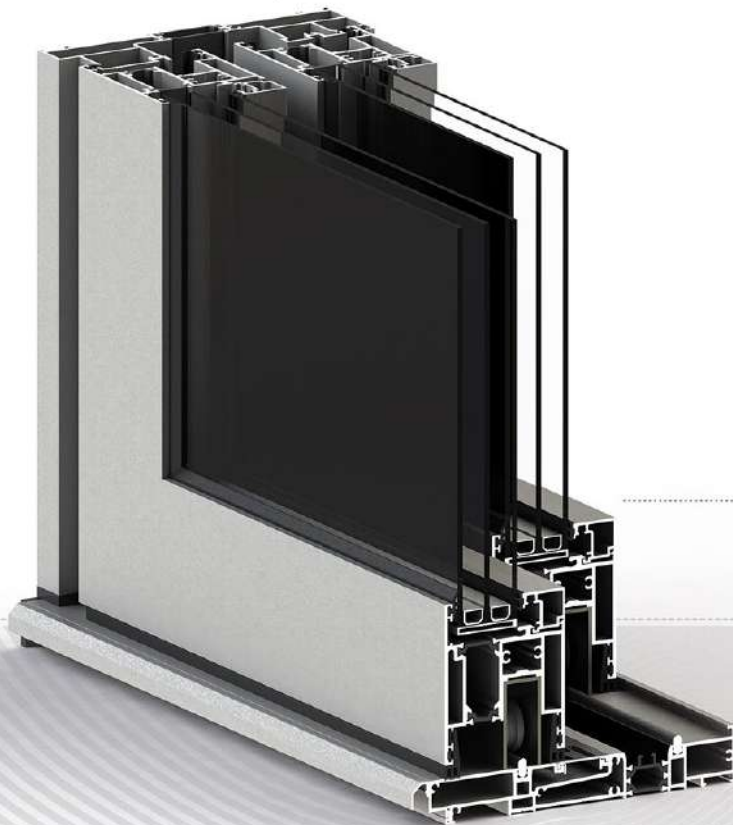


SLIDING SYSTEMS  
SLIDING SYSTEMS  
SLIDING SYSTEMS  
SLIDING SYSTEMS  
SLIDING SYSTEMS

# Sliding سیستم های کشویی Systems

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| <b>AS90</b><br>42  | <b>AS74</b><br>43  | <b>AS60</b><br>44   | <b>AS60</b><br>45<br>New | <b>MAS60</b><br>46  | <b>AS55</b><br>47 |                   |                    |



# TS168

Sliding Patio Door

Lift & Slide

Uf: 2.9 W (m2.k)

Thermal Break



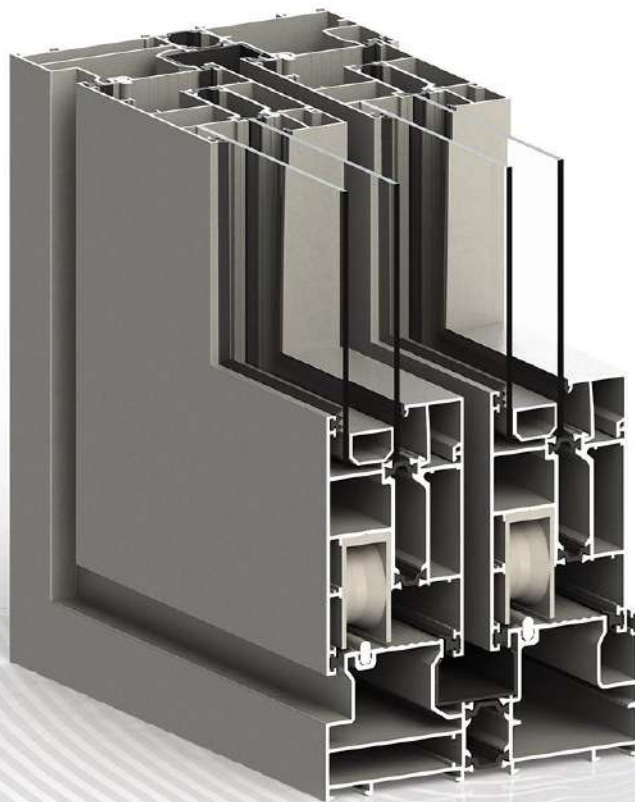
آموزش، مونتاژ

## System Specification

Possibility to install European fittings **EPDM identification and sealing gaskets**

|  |   |
|--|---|
| Product code:                            | TS168                                       |
| Frame width:                             | 168 mm                                      |
| Sash width:                              | 70 mm                                       |
| Wall thickness:                          | 2 - 2.2 mm                                  |
| Glass thickness:                         | 28 to 52 mm                                 |
| Polyamide size:                          | 18 - 24 - 38 mm                             |
| Thermal conductivity:                    | Uf: 2.9 w/m2k                               |
| Appearance:                              | Flat and smooth from the outside and inside |
| Type of corner fixture:                  | Riveted                                     |
| Possibility to install European fittings | Lift and slide 300- 400 kg                  |
|  |   |
|  |   |





# TS143

Sliding Door & Window

Lift & Slide

Uf: 3.2 W (m2.k)

Thermal Break



آموزش، مونتاژ

## System Specification

Possibility to install European fittings

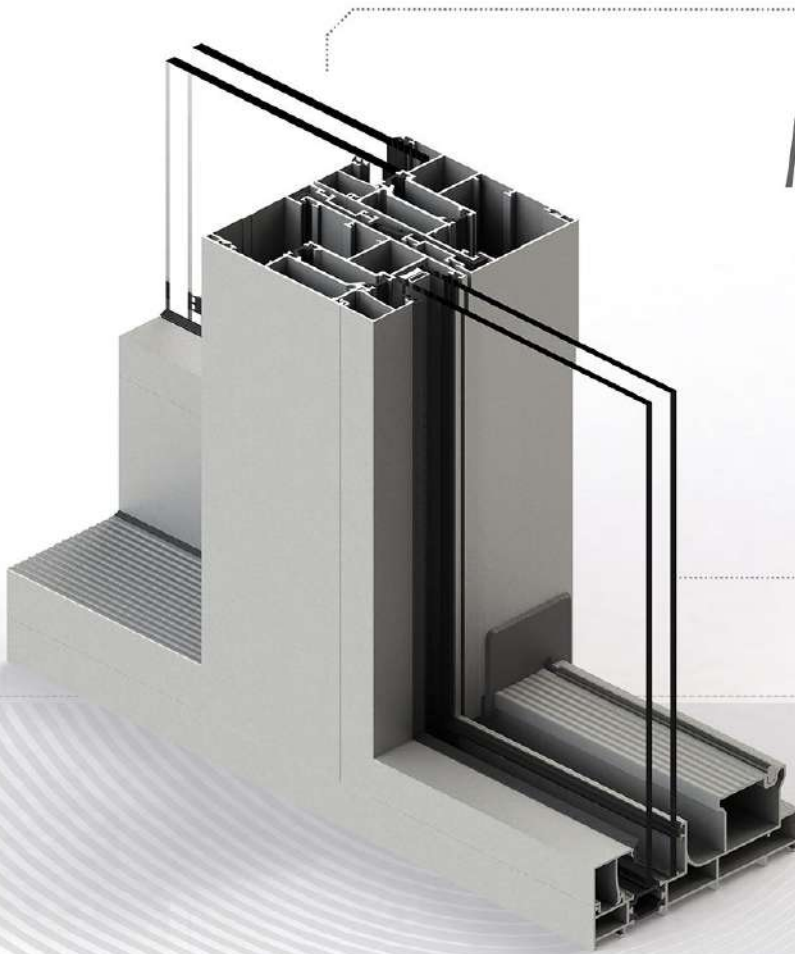
EPDM identification and sealing gaskets

|   |   |
|---|---|
| Product code:                             | TS143                                       |
| Frame width:                              | 143 mm                                      |
| Sash width:                               | 70 mm                                       |
| Wall thickness:                           | 2 - 2.2 mm                                  |
| Glass thickness:                          | 28 to 52 mm                                 |
| Polyamide size:                           | 18 - 24 - 38 mm                             |
| Thermal conductivity:                     | Uf: 3.2w/m2k                                |
| Appearance:                               | Flat and smooth from the outside and inside |
| Type of corner fixture:                   | Riveted                                     |
| Possibility to install European fittings: | Lift and slide 300- 400 kg                  |



# MTS 143

Sliding Door & Window  
Thermal Break Monorail



آموزش، مونتاژ

## System Specification

Possibility to install European fittings

EPDM identification and sealing gaskets

|   |  |
|---|--|
| Product code:                             | MTS143                                       |
| Frame width:                              | 137 mm                                       |
| Sash width:                               | 62.5 mm                                      |
| Wall thickness:                           | 1.5 - 1.7 mm                                 |
| Glass thickness:                          | 14 to 49 mm                                  |
| Polyamide size:                           | 14.8 - 18 - 20 mm                            |
| Appearance:                               | Flat and smooth from the outside and inside  |
| Type of corner fixture:                   | Punch punches and Allen punches in the frame |
| Possibility to install European fittings: | Lift and slide 300 kg                        |



lift and slide

Short Frame

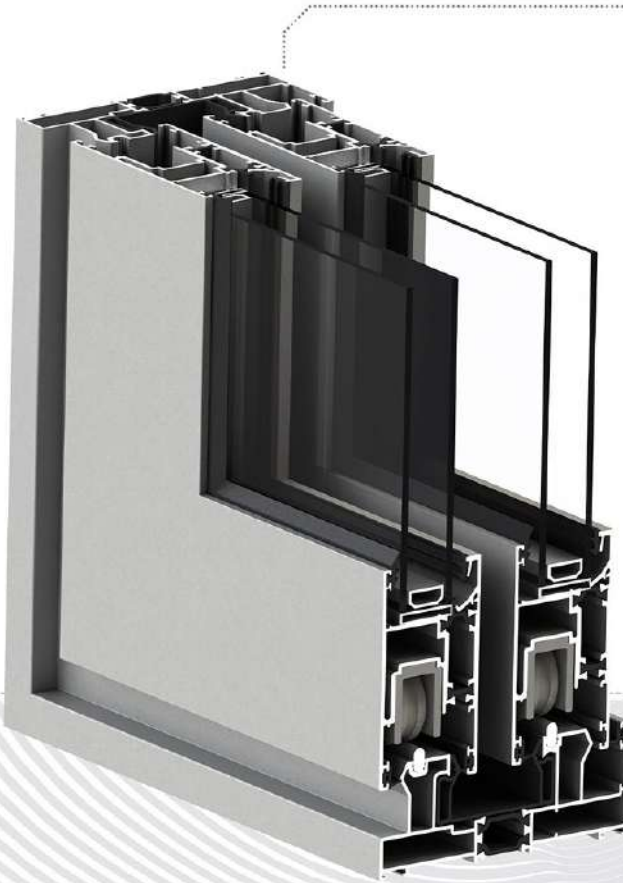
Normal Opening

Normal Sliding

70 kg on Sash

80 kg on Sash

100 kg on Sash



# TS115

Sliding Window  
Thermal Break Normal  
Uf: 3.6 - 4.4 W(m2.k)

Thermal Break



آموزش، مونتاژ

## System Specification

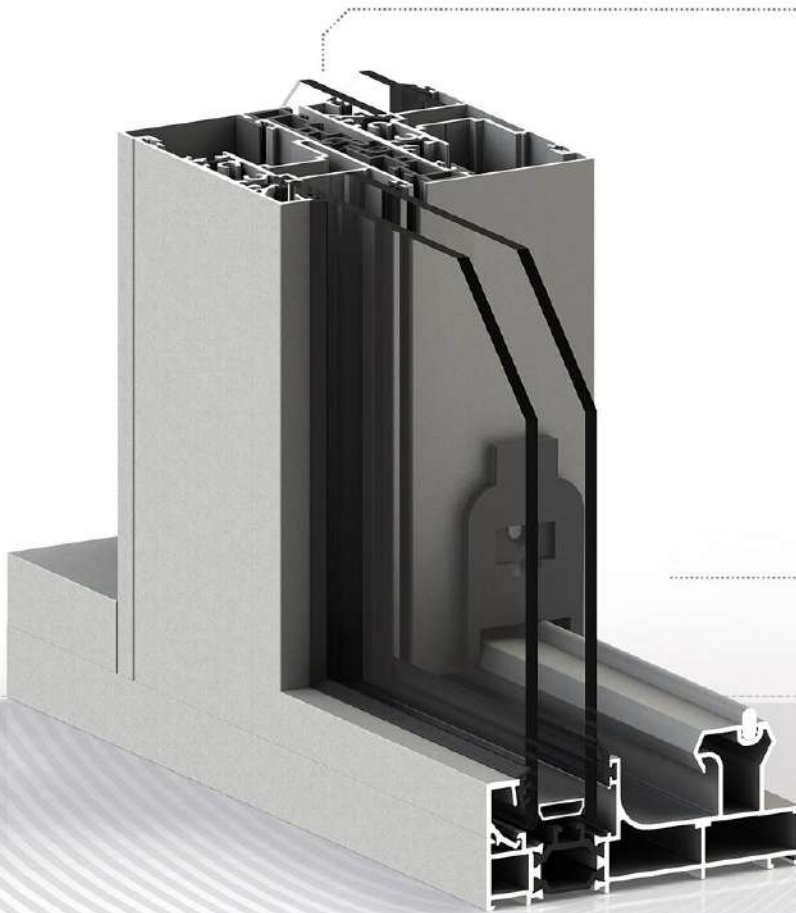
Possibility to install European fittings **EPDM identification and sealing gaskets**

|   |  |
|---|--|
| Product code:                             | TS115  |
| Frame width:                              | 115 mm                                       |
| Sash width:                               | 45 mm  |
| Wall thickness:                           | 1.5 - 1.7 mm                                 |
| Glass thickness:                          | 24 mm  |
| Polyamide size:                           | 12 - 16 - 24 mm                              |
| Thermal conductivity:                     | Uf: 3.6 - 4.4 w/m2k                          |
| Appearance:                               | Flat and smooth from the outside and inside  |
| Type of corner fixture:                   | Punch punches and Allen punches in the frame |
| Possibility to install European fittings: | Lift and slide 200 kg                        |



# MTS115

Sliding Window  
Thermal Break Monorail



Thermal Break



آموزش، مونتاژ

## System Specification

Possibility to install European fittings

EPDM identification and sealing gaskets

|   |  |
|---|--|
| Product code:                             | MTS115                                       |
| Frame width:                              | 106 mm                                       |
| Sash width:                               | 45 mm  |
| Wall thickness:                           | 1.5 - 1.7 mm                                 |
| Glass thickness:                          | 24 mm  |
| Polyamide size:                           | 12 - 16 - 24 mm                              |
| Appearance:                               | Flat and smooth from the outside and inside  |
| Type of corner fixture:                   | Punch punches and Allen punches in the frame |
| Possibility to install European fittings: | Lift and slide 200 kg                        |
|   |  |
|   |  |
|   |  |

Type OF  
opening

lift and slide

Short Frame

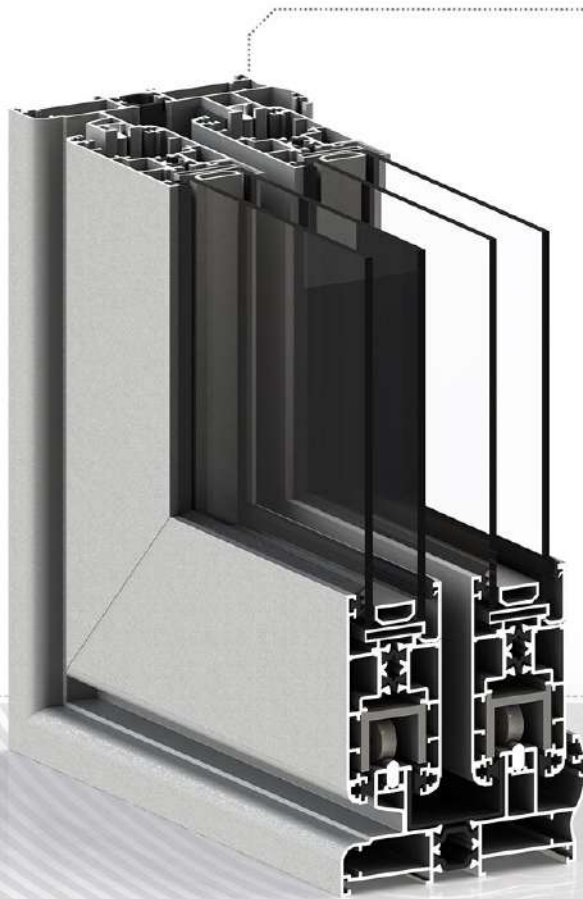
Normal Opening

Normal Sliding

70 kg on Sash

80 kg on Sash

100 kg on Sash



# TS94

Sliding Window

Thermal Break



آموزش، مونتاز

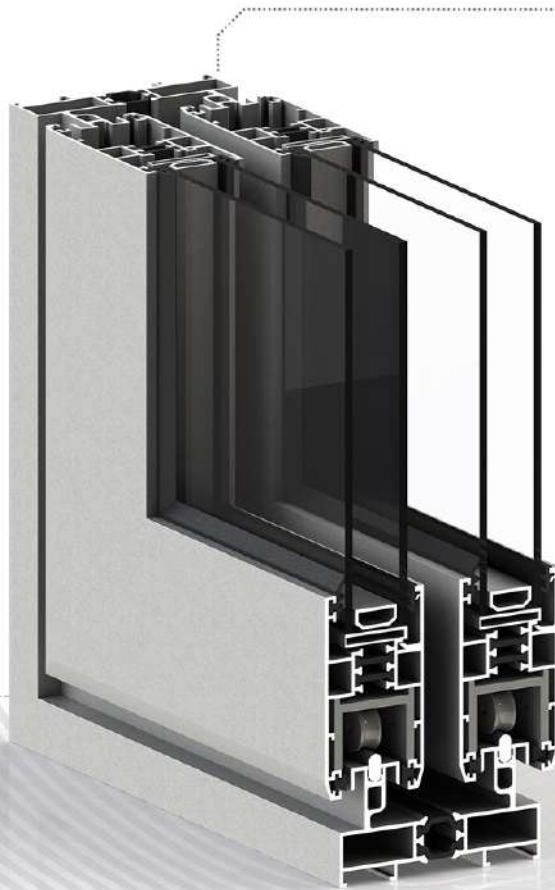
## System Specification

Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | TS94  |
| Frame width:            | 94 mm   |
| Sash width:             | 38 mm   |
| Wall thickness:         | 1.3 - 1.4 mm  |
| Glass thickness:        | 18 - 24 mm  |
| Polyamide size:         | 10 - 18 - 25 mm   |
| Appearance:             | Flat and smooth from the outside and inside - Curved and arched from the outside and inside |
| Type of corner fixture: | Riveted Corner and Corner with internal hex screw   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |

Type OF opening
lift and slide
Short Frame
Normal Opening
Normal Sliding
70 kg on Sash
80 kg on Sash
100 kg on Sash



# TS77

Sliding Window

Uf: 4.45 W(m2.k)

Thermal Break



آموزش، مونتاژ

## System Specification

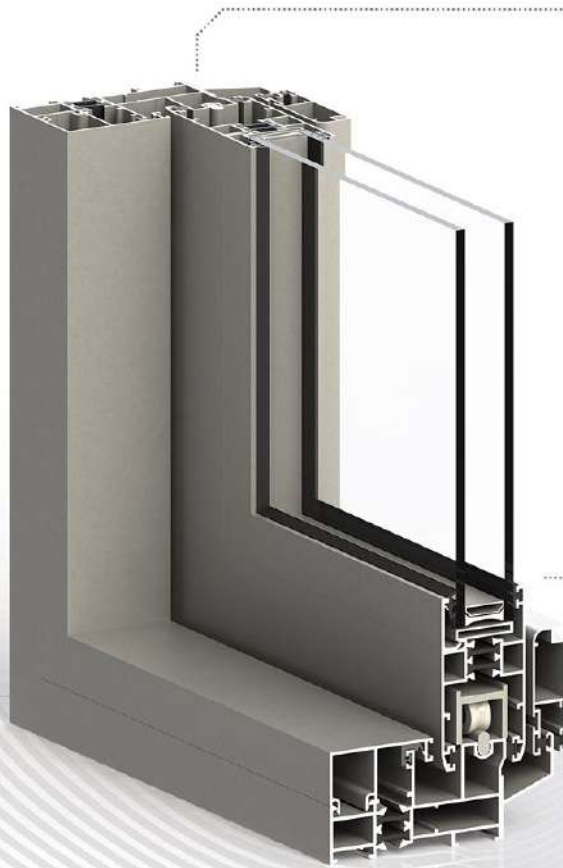
Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | TS77  |
| Frame width:            | 77 mm   |
| Sash width:             | 38 mm   |
| Wall thickness:         | 1.3 - 1.4 mm                                      |
| Glass thickness:        | 18 - 24 mm  |
| Polyamide size:         | 14.8 - 18 mm                                      |
| Thermal conductivity:   | Uf:4.45w/m2k                                      |
| Appearance:             | Flat and smooth from the outside and inside       |
| Type of corner fixture: | Riveted Corner and Corner with internal hex screw |
|                         |   |
|                         |   |
|                         |   |







# MTS77

Sliding Door & Window  
Thermal Break Monorail

Thermal Break



آموزش، مونتاژ

## System Specification

Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | MTS77   |
| Frame width:            | 77 mm   |
| Sash width:             | 38 mm   |
| Wall thickness:         | 1.3 - 1.4 mm                                      |
| Glass thickness:        | 24 mm   |
| Polyamide size:         | 14.8 - 18 mm                                      |
| Appearance:             | Flat and smooth from the outside and inside       |
| Type of corner fixture: | Riveted Corner and Corner with internal hex screw |
|                         |   |
|                         |   |
|                         |   |
|                         |   |





# AS90

Sliding Window



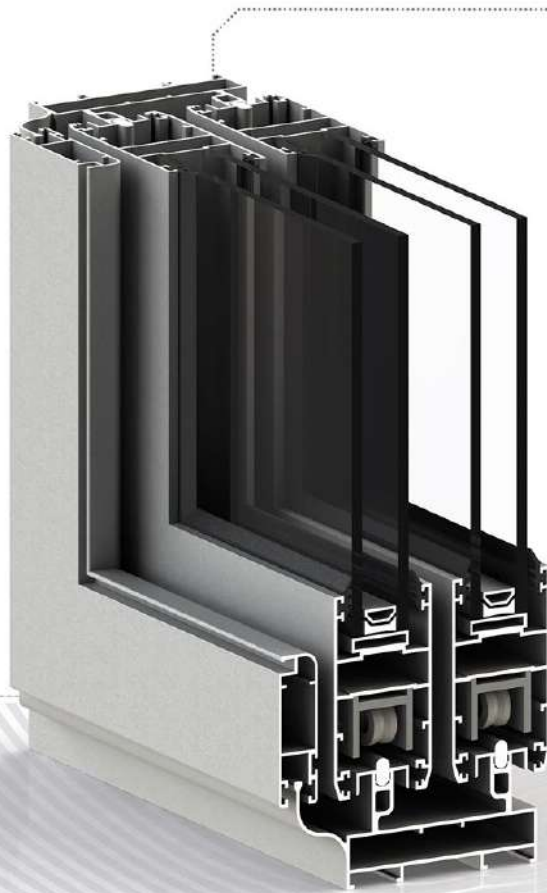
آموزش، مونتاژ

## System Specification

Possibility to install European fittings **EPDM identification and sealing gaskets**

|                         |   |
|-------------------------|---|
| Product code:           | AS90  |
| Frame width:            | 90 mm   |
| Sash width:             | 38 mm   |
| Wall thickness:         | 1.3 - 1.4 mm                                  |
| Glass thickness:        | 18 mm   |
| Appearance:             | Curved and arched from the outside and inside |
| Type of corner fixture: | Oblique with internal hex screw               |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |

Type of opening: lift and slide | Short Frame | Normal Opening | **Normal Sliding** | 70 kg on Sash | 80 kg on Sash | **100 kg on Sash**



# AS74

Sliding Window



آموزش، مونتاژ

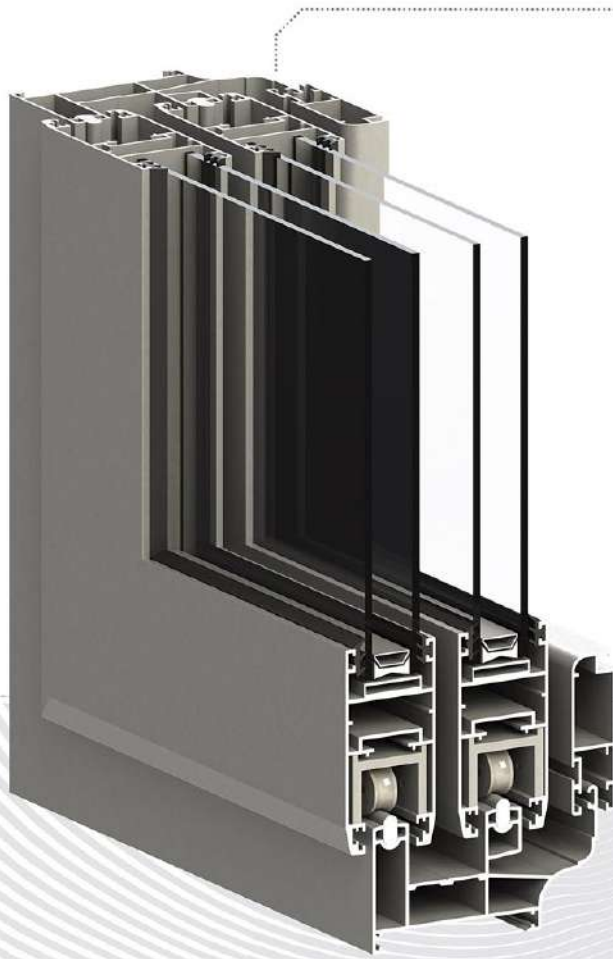
## System Specification

Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | AS74  |
| Frame width:            | 74 mm                                       |
| Sash width:             | 38 mm                                       |
| Wall thickness:         | 1.3 - 1.4 mm                                |
| Glass thickness:        | 24 mm                                       |
| Appearance:             | Flat and smooth from the outside and inside |
| Type of corner fixture: | Oblique with internal hex screw             |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |

Type of opening: lift and slide, Short Frame, Normal Opening, **Normal Sliding**, 70 kg on Sash, 80 kg on Sash, **100 kg on Sash**



# AS60

Sliding Window

Uf: 7.2 W (m2.k)



آموزش مونتاژ

## System Specification

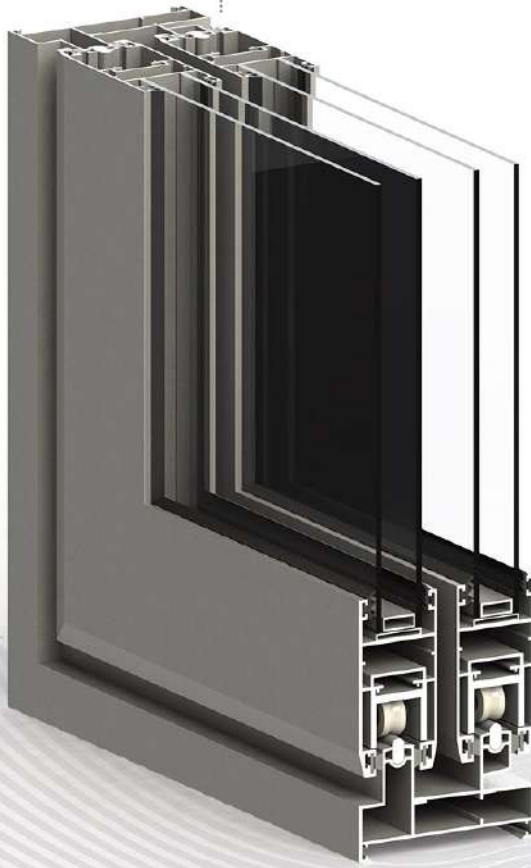
Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | AS60  |
| Frame width:            | 60 and 100 mm                                 |
| Sash width:             | 32 mm   |
| Wall thickness:         | 1.2 - 1.3 mm                                  |
| Glass thickness:        | 18 mm   |
| Thermal conductivity:   | Uf:7.2w/m2k                                   |
| Appearance:             | Curved and arched from the outside and inside |
| Type of corner fixture: | Oblique with internal hex screw               |
|                         |   |
|                         |   |
|                         |   |
|                         |   |



New Production



# AS60

Sliding Window  
New Frame  
Uf: 7.2 W (m2.k)



آموزش مونتاژ

## System Specification

Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | AS60  |
| Frame width:            | 60 and 100 mm                                 |
| Sash width:             | 32 mm   |
| Wall thickness:         | 1.2 - 1.3 mm                                  |
| Glass thickness:        | 18 mm   |
| Thermal conductivity:   | Uf:7.2w/m2k                                   |
| Appearance:             | Curved and arched from the outside and inside |
| Type of corner fixture: | Oblique with internal hex screw               |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |

Type OF opening

lift and slide

Short Frame

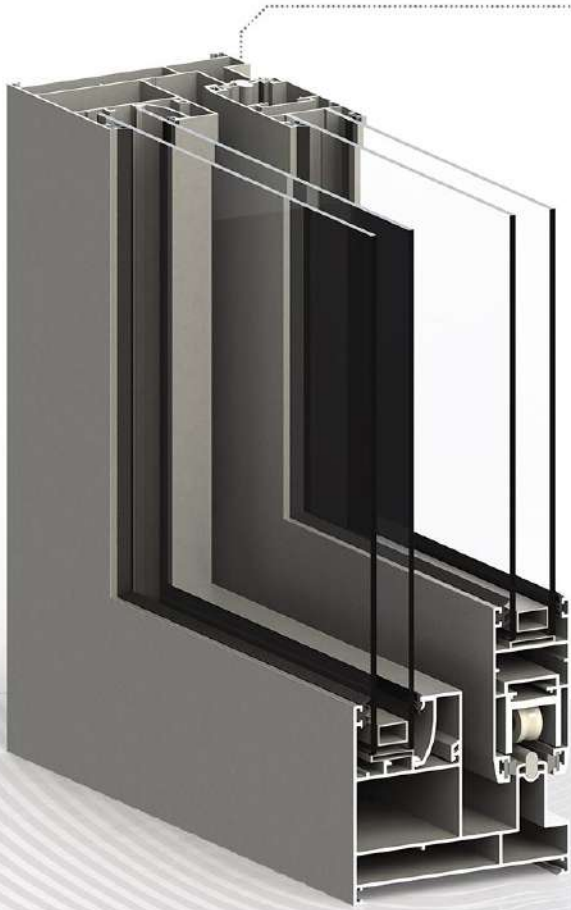
Normal Opening

Normal Sliding

70 kg on Sash

80 kg on Sash

100 kg on Sash



# MAS60

Sliding Window  
with 90mm Frame Profile



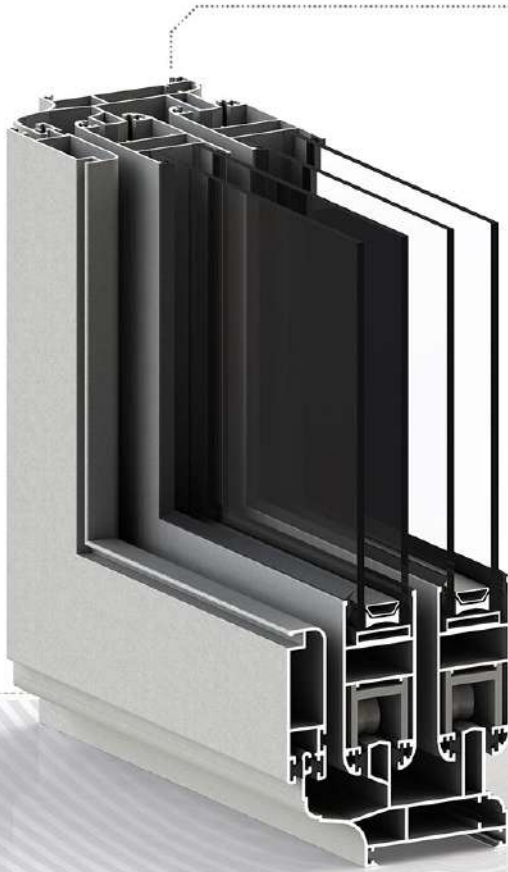
آموزش، مونتاژ

## System Specification

Possibility to install European fittings **EPDM identification and sealing gaskets**

|                         |   |
|-------------------------|---|
| Product code:           | MAS60                                       |
| Frame width:            | 90 mm                                       |
| Sash width:             | 32 mm                                       |
| Wall thickness:         | 1.2 - 1.3 mm                                |
| Glass thickness:        | 18 mm                                       |
| Appearance:             | Flat and smooth from the outside and inside |
| Type of corner fixture: | Oblique with internal hex screw             |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |

Type of opening: lift and slide, Short Frame, Normal Opening, **Normal Sliding**, 70 kg on Sash, **80 kg on Sash**, 100 kg on Sash



# AS55

Sliding Window



آموزش، مونتاژ

## System Specification

Possibility to install European fittings

EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Product code:           | AS55  |
| Frame width:            | 55 mm   |
| Sash width:             | 28 mm   |
| Wall thickness:         | 1.3 - 1.2 mm                                  |
| Glass thickness:        | 18 mm   |
| Appearance:             | Curved and arched from the outside and inside |
| Type of corner fixture: | Oblique with internal hex screw               |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |

Type of opening: lift and slide, Short Frame, Normal Opening, **Normal Sliding**, 70 kg on Sash, 80 kg on Sash, 100 kg on Sash









# Folding

## Door System



آموزش، مونتاژ

### System Specification

#### EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Frame width:            | 50 mm                                       |
| Sash width:             | 50 mm                                       |
| Wall thickness:         | 1.5 - 2.5 mm                                |
| Glass thickness:        | 6 to 32 mm                                  |
| Polyamide size:         | 18 mm                                       |
| Appearance:             | Flat and smooth from the outside and inside |
| Type of corner fixture: | Riveted                                     |
| Specifications:         | Hidden accordion fitting                    |
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# Partition System



آموزش، مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                     |   |
|---------------------|---|
| Product Name:       | Aluminium Partition   |
| Frame width:        | 70 mm   |
| Wall thickness:     | 1.3 -1.4 mm   |
| Appearance:         | Flat and smooth profile of the exterior and interior        |
| Thickness of glass: | 4 - 6 mm Single and Double Glazed for interior and exterior |
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Type OF opening

- Turn
- Tilt and Tum
- Hidden vent
- French
- Parallel
- Tilt and Slide
- Pivot
- Friction



# Glass Handrail

System - Two piece



آموزش، مونتاژ

## System Specification

**EPDM** identification and sealing gaskets

|                                |   |
|--------------------------------|---|
| Type of glass holder profile : | two connecting pieces with 90 cm bolts and nuts |
| Glass cover type :             | 1045  |
| Type of glass :                | laminated                                       |
| Type of work :                 | surface   |
|                                |   |
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# Glass Handrail

System - One piece



آموزش، مونتاژ

## System Specification

**EPDM identification and sealing gaskets**

|   |                                  |
|---|----------------------------------|
| Glass railing installed outside the surface : | Glass Handrail                   |
| Type of glass holder profile :                | 5.5 cm one piece                 |
| Glass cover type :                            | 10415                            |
| Type of glass :                               | laminated                        |
| Type of work :                                | installation next to the surface |

# Side Fix Glass

Support System



آموزش، مونتاژ

## System Specification

**EPDM** identification and sealing gaskets

|                                |   |
|--------------------------------|---|
| Product Name:                  | Glass railing installed outside the surface |
| Type of glass holder profile : | 5.5 cm one piece                            |
| Glass cover type :             | 10415                                       |
| Type of glass :                | laminated                                   |
| Type of work :                 | installation next to the surface            |

New Production

# Outdoor Handrail

Lighting

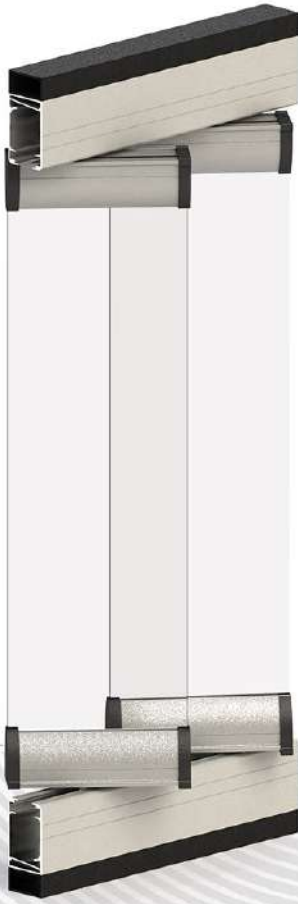


آموزش، مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Frame width:            | 110 mm                                      |
| Sash width:             | 24.5 mm                                     |
| Wall thickness:         | 1.5 - 1.8 mm                                |
| Thickness of glass:     | 10 to 20 mm                                 |
| Appearance:             | Flat and smooth from the outside and inside |
| Type of corner fixture: | Plastic corner                              |



# Glass Balustrade System



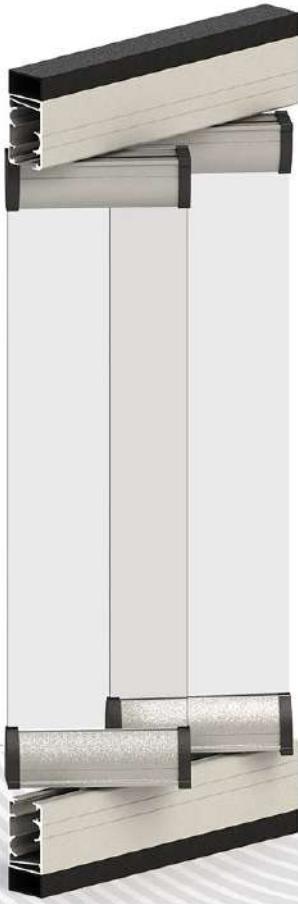
آموزش، مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                         |                         |
|-------------------------|-------------------------|
| Product Name:           | Glass Balustrade System |
| Size of frame width :   | 39 mm                   |
| The width of the sash : | 35 - 40 mm              |
| Wall thickness :        | 1.3 mm                  |
| Glass thickness :       | 8 mm                    |
| Appearance :            | flat and smooth         |
| Open type :             | rail                    |
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New Production

# Glass Balustrade System



آموزش، مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                         |                         |
|-------------------------|-------------------------|
| Product Name:           | Glass Balustrade System |
| Size of frame width :   | 39 mm                   |
| The width of the sash : | 35 - 40 mm              |
| Wall thickness :        | 1.3 mm                  |
| Glass thickness :       | 8 mm                    |
| Appearance :            | flat and smooth         |
| Open type :             | rail                    |
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# Roll-up Door System



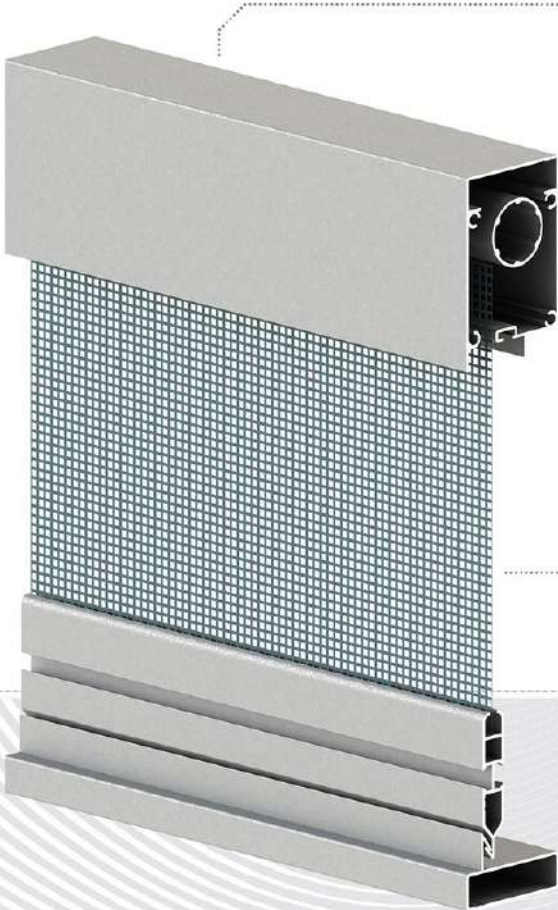
آموزش، مونتاژ

## System Specification

**EPDM** identification and sealing gaskets

|                          |   |
|--------------------------|---|
| Product Name:            | Roll - up Door System                     |
| Rail width :             | 60 - 120 mm                               |
| The size of the blades : | according to different working conditions |
| Wall thickness :         | 1.1 - 1.7 m                               |
| Appearance :             | mesh                                      |

# Grid System



آموزش، مونتاژ

## System Specification

**EPDM identification and sealing gaskets**

|                                      |             |
|--------------------------------------|-------------|
| Product Name:                        | Grid System |
| Size of frame width :                | 40 m        |
| The size of the width of the blade : | 9.3 mm      |
| Lace type :                          | hook clip   |
|                                      |             |
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# Pelisse Grid

System



آموزش، مونتاز

## System Specification

|                          |                     |
|--------------------------|---------------------|
| Product Name:            | Pelisse Grid System |
| Frame height:            | 35.2 mm             |
| Linge height :           | 47.5 mm             |
| Exclusive profile type : | pleated lace        |
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New Production



# Sliding Fly System



آموزش، مونتاژ

## System Specification

EPDM identification and sealing gaskets

Product Name : Sliding Grid System

type : Remote control



# Handrail

Pipe Aluminium Handrail System



پروفیل سیستم

## System Specification

**EPDM** identification and sealing gaskets

|                         |                                |
|-------------------------|--------------------------------|
| Product Name:           | Pipe Aluminium Handrail System |
| The smallest diameter : | 15.8 m                         |
| The largest diameter :  | 50 m                           |
| Minimum thickness :     | 1.2 m                          |
| Maximum thickness :     | 4.9 m                          |



# Handrail

Square Aluminium Handrail System

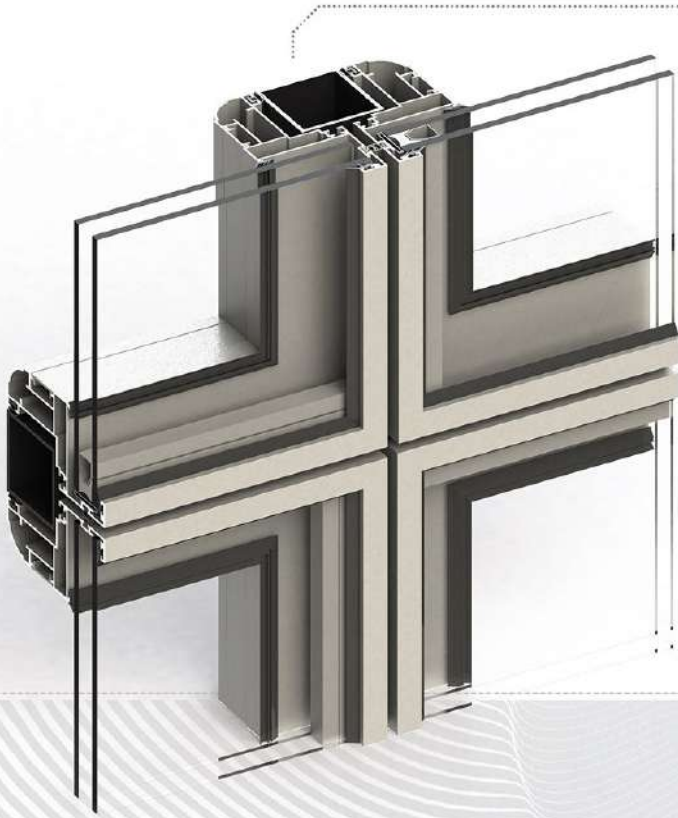


پروفیل سیستم

## System Specification

**EPDM** identification and sealing gaskets

|                 |                                  |
|-----------------|----------------------------------|
| Product Name:   | Square Aluminium Handrail System |
| Minimum width : | 14 x 14                          |
| Maximum width : | 40 x 40 - 70 x 70                |
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# Frameless System



آموزش، مونتاز

## System Specification

**EPDM identification and sealing gaskets**

|  |                  |
|--|------------------|
| Product Name:  | Frameless System |
| The width of the single-wall frame :                 | 45 m             |
| The size of the width of the double - glazed frame : | 50 m             |
| The size of the width of the ledge :                 | 58 m             |
| Wall thickness :                                     | 1.3 m            |
| Glass thickness :                                    | 10 - 18          |
| Appearance :   | round            |
| Open Type :  | Cardi            |
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# Glass Support Profiles



آموزش، مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|               |                         |
|---------------|-------------------------|
| Product Name: | Tempered glass profiles |
| Frame width:  | 37 to 95 meters         |
| Glass size :  | 10 meters               |

New Production

# AW110 System



آموزش، مونتاز

## System Specification

✓ Carrier Reinforcement ✓ Gutter Reinforcement

|                                      |               |
|--------------------------------------|---------------|
| Product code:                        | AW110         |
| Pole Profile Width:                  | 110 mm        |
| Gutter profile Width:                | 155.2 mm      |
| Glazing Carrier Profile Width:       | 60.3*112.2 mm |
| Profile Wall Thickness:              | 1.4 - 5 mm    |
| Max. veranda Depth:                  | 4000 mm       |
| Max. Distance Between Pole Profiles: | 7000 mm       |
| Max. Veranda Back Height:            | 2800 mm       |
| Max. Veranda Front Height:           | 2400 mm       |
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New Production

# AFW135 System



آموزش، مونتاژ

## System Specification

There are no limits on the width

Maximum Projection is 6500 mm

Front over-hang available 300 mm to 1000 mm

LED Rafter Lighting

Heating

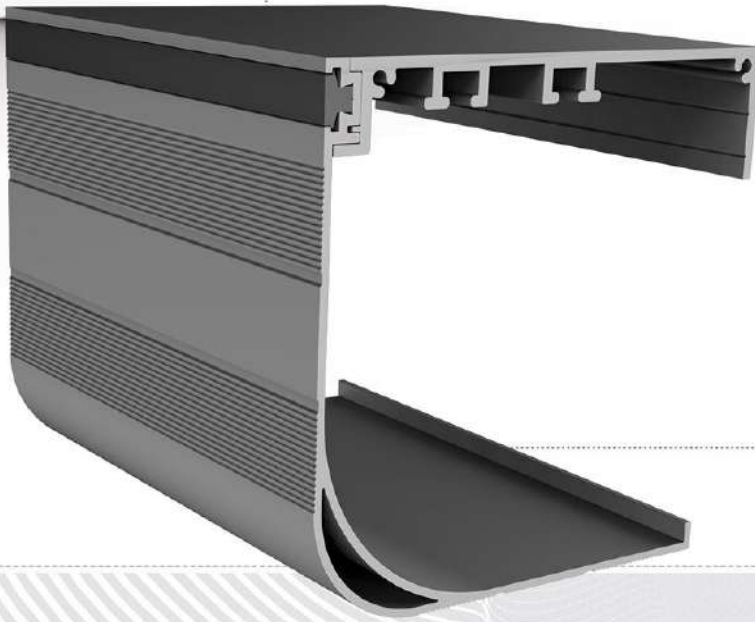
Glass Sliding Doors

Fixed Glazing Walls

New Production

# SES - D1

System



آموزش، مونتاژ

## System Specification

There are no limits on the width

Competitive price.

Easy installation

Ability to connect for all sliding systems (before and after installation)

Easy maintenance



# Automatic Door System



آموزش، مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                 |                |
|-----------------|----------------|
| Product Name :  | Automatic Door |
| Rail profile :  | 76 x 148 mm    |
| Cover profile : | 120 x 92 mm    |
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# Louvre System

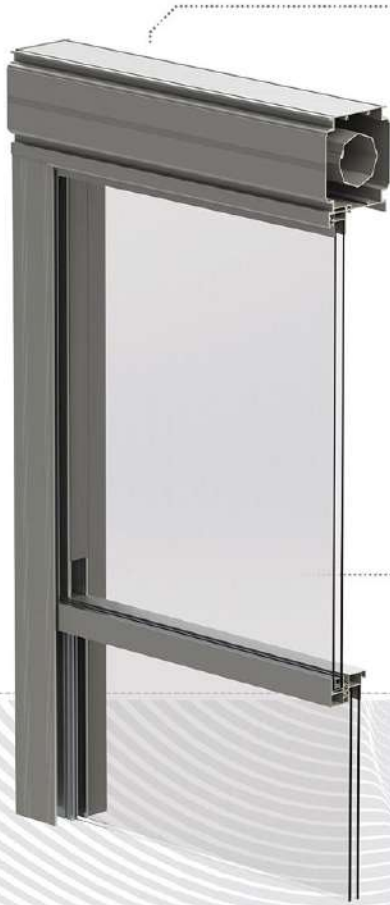


آموزش، مونتاز

## System Specification

**EPDM identification and sealing gaskets**

|                   |                             |
|-------------------|-----------------------------|
| Product Name :    | Louvre                      |
| Frame width :     | 200 x 111.5 mm              |
| Type of profile : | rectangular - oval - louvre |



# Guillotine System



آموزش، مونتاژ

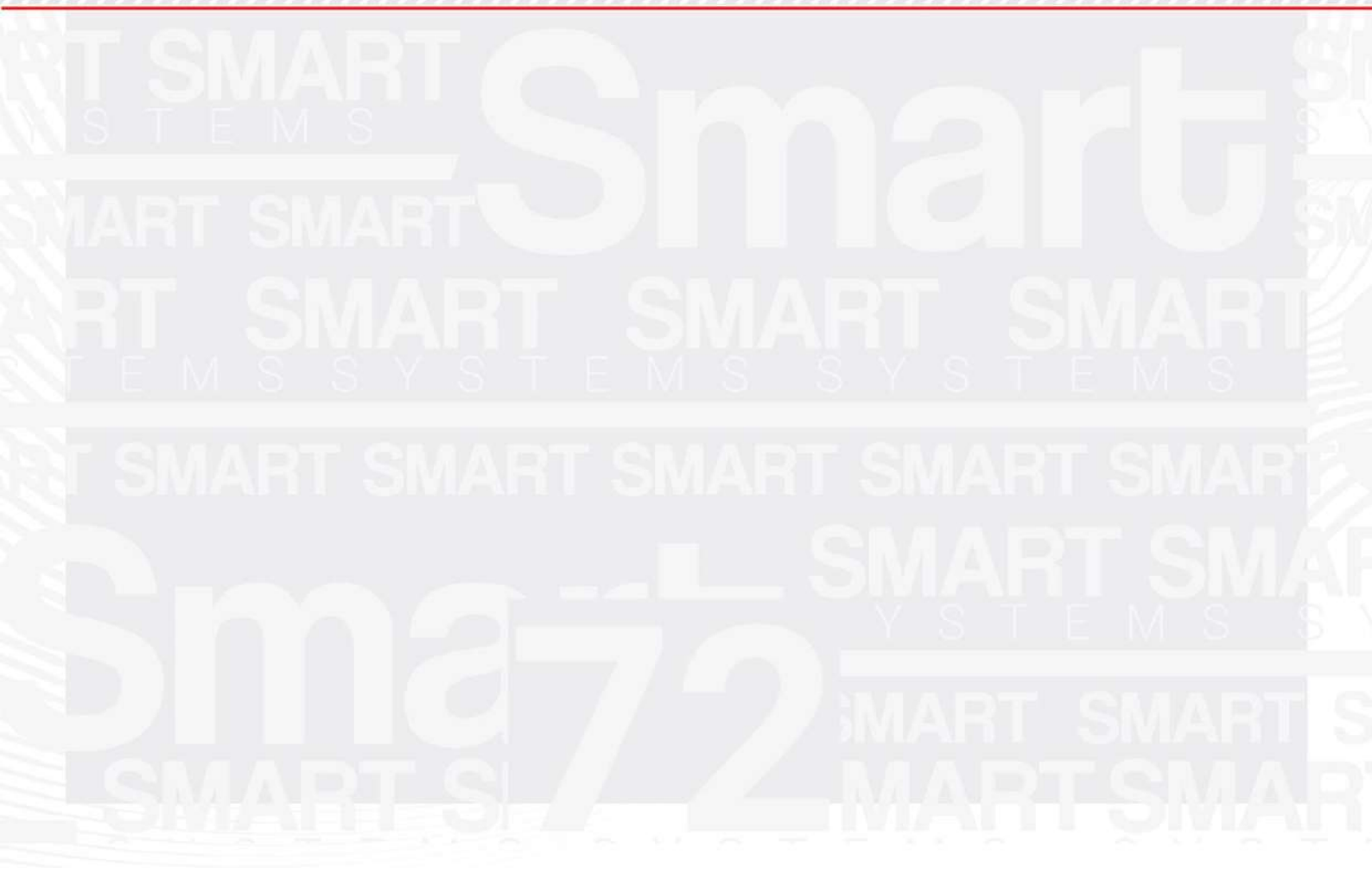
## System Specification

### EPDM identification and sealing gaskets

|                         |   |
|-------------------------|---|
| Frame width:            | 110 mm                                      |
| Sash width:             | 24.5 mm                                     |
| Wall thickness:         | 1.5 - 1.8 mm                                |
| Thickness of glass:     | 10 to 20 mm                                 |
| Appearance:             | Flat and smooth from the outside and inside |
| Type of corner fixture: | Plastic corner                              |
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# Smart Systems







Smart Production

# TS143

Sliding Door & Window

Lift & Slide

Uf: 3.2 W (m2.k)



آموزش مونتاز

## System Specification

Possibility to install European fittings

EPDM identification and sealing gaskets

|   |   |
|---|---|
| Product code:                             | TS143                                       |
| Frame width:                              | 143 mm                                      |
| Sash width:                               | 70 mm                                       |
| Wall thickness:                           | 2 - 2.2 mm                                  |
| Glass thickness:                          | 28 to 52 mm                                 |
| Polyamide size:                           | 18 - 24 - 38 mm                             |
| Thermal conductivity:                     | Uf: 3.2w/m2k                                |
| Appearance:                               | Flat and smooth from the outside and inside |
| Type of corner fixture:                   | Riveted                                     |
| Possibility to install European fittings: | Lift and slide 300- 400 kg                  |

Type of opening

lift and slide

Short Frame

Normal Opening

Normal Sliding

70 kg on Sash

80 kg on Sash

100 kg on Sash



# AI & Smart Homes

Smart Production

# TS115

Sliding Window

Thermal Break Normal

Uf: 3.6 - 4.4 W(m2.k)



آموزش مونتاز

## System Specification

Possibility to install European fittings EPDM identification and sealing gaskets

|   |  |
|---|--|
| Product code:                             | TS115  |
| Frame width:                              | 115 mm                                       |
| Sash width:                               | 45 mm  |
| Wall thickness:                           | 1.5 - 1.7 mm                                 |
| Glass thickness:                          | 24 mm  |
| Polyamide size:                           | 12 - 16 - 24 mm                              |
| Thermal conductivity:                     | Uf:3,6-4,4w/m2k                              |
| Appearance:                               | Flat and smooth from the outside and inside  |
| Type of corner fixture:                   | Punch punches and Allen punches in the frame |
| Possibility to install European fittings: | Lift and slide 200 kg                        |
|   |  |
|   |  |

Type OF opening: lift and slide (highlighted), Short Frame, Normal Opening, Normal Sliding (highlighted), 70 kg on Sash, 80 kg on Sash, 100 kg on Sash

New Production Smart Production

# Glass Roof System



آموزش، مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                 |                             |
|-----------------|-----------------------------|
| Frame width:    | 200 - 111/5                 |
| Type of profile | rectangular - oval - louvre |

|                 |                |             |                |                |               |               |                |
|-----------------|----------------|-------------|----------------|----------------|---------------|---------------|----------------|
| Type OF opening | lift and slide | Short Frame | Normal Opening | Normal Sliding | 70 kg on Sash | 80 kg on Sash | 100 kg on Sash |
|                 |                |             |                |                |               |               |                |



Smart Production

# Louvre

System



آموزش، مونتاژ

## System Specification

private Profile cover

It has a **3-mode** control board

No width limit

It has a hidden outlet for rainwater

Type OF opening

lift and slide

Short Frame

Normal Opening

Normal Sliding

70 kg on Sash

80 kg on Sash

100 kg on Sash

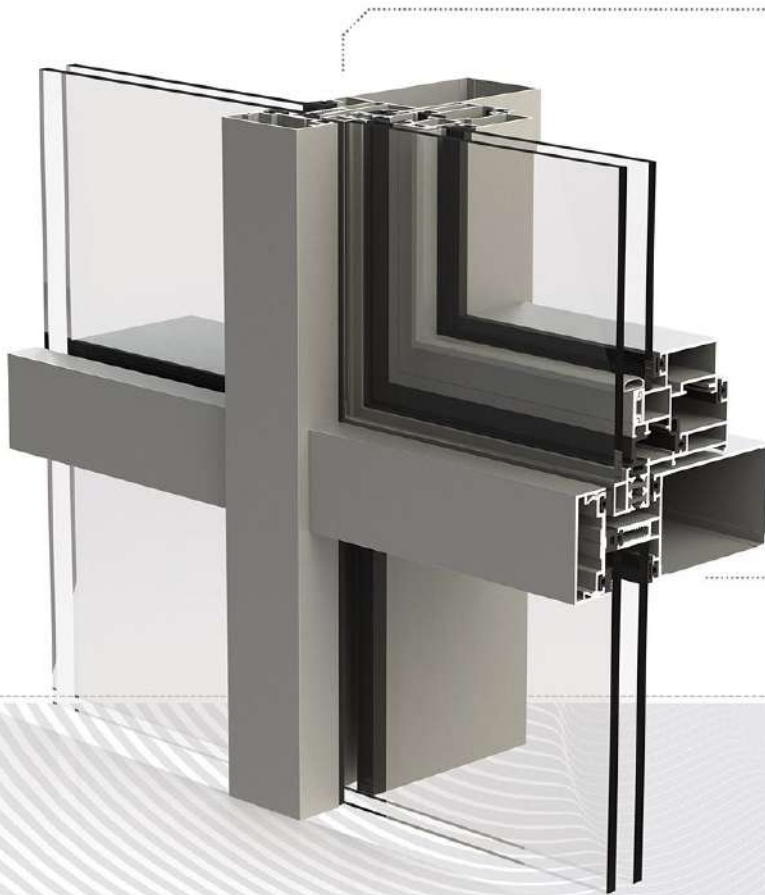


# Curtain Wall

## Systems

M S  
Wall Curtain Wall  
WALL Curtain Wall Curtain Wall  
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Wall Curtain Wall Curtain Wall  
WALL SYSTEMS  
Wall  
M S  
Wall Curtain W  
WALL Curta 78 Curtain Wall  
E M S S Y S S Y S T E M S





# Curtain Wall

*Caped*

Uf: 4.60 W(m2.k)

Thermal Break



آموزش مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                               |                |
|-------------------------------|----------------|
| Maximum height of Mullion:    | 180 mm         |
| Minimum height of Mullion:    | 50 mm          |
| Maximum height of Transom:    | 162 mm         |
| Minimum height of Transom:    | 35 mm          |
| Width of Mullion and Transom: | 50 & 51 mm     |
| Wall thickness:               | 1.5 - 2.5 mm   |
| Glass thickness:              | 6 to 50 mm     |
| Thermal Conductivity:         | Uf: 4.60 w/m2k |
|                               |                |
|                               |                |
|                               |                |
|                               |                |







# Curtain Wall

*Semi Caped*

Uf: 4.60 W(m2.k)

Thermal Break



آموزش مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                               |                |
|-------------------------------|----------------|
| Maximum height of Mullion:    | 180 mm         |
| Minimum height of Mullion:    | 50 mm          |
| Maximum height of Transom:    | 162 mm         |
| Minimum height of Transom:    | 35 mm          |
| Width of Mullion and Transom: | 50 & 51 mm     |
| Wall thickness:               | 1.5 - 2.5 mm   |
| Glass thickness:              | 6 to 50 mm     |
| Thermal Conductivity:         | Uf: 4.60 w/m2k |
|                               |                |
|                               |                |
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|                               |                |
|                               |                |





# Modules System

with Structural Glazing

Uf: 4.45 W(m2.k)



آموزش مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                               |                |
|-------------------------------|----------------|
| Maximum height of Mullion:    | 180 mm         |
| Minimum height of Mullion:    | 50 mm          |
| Maximum height of Transom:    | 162 mm         |
| Minimum height of Transom:    | 35 mm          |
| Width of Mullion and Transom: | 50 & 51 mm     |
| Wall thickness:               | 1.5 - 2.5 mm   |
| Glass thickness:              | 6 to 30 mm     |
| Thermal Conductivity:         | Uf: 4.45 w/m2k |
|                               |                |
|                               |                |
|                               |                |
|                               |                |



Turn

Tilt and Turn

Hidden vent

French

Parallel

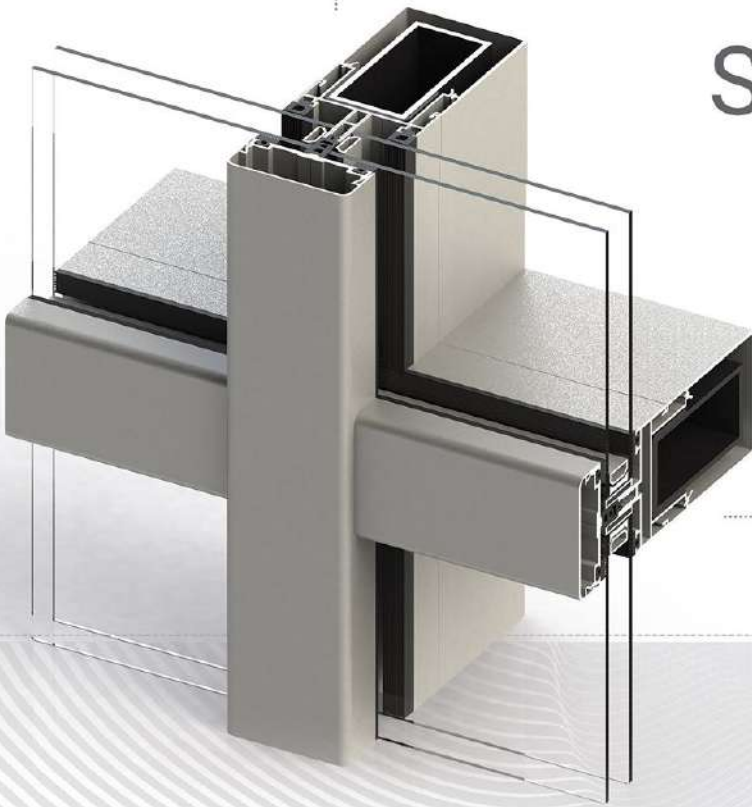
Tilt and Slide

Pivot

Friction

# Steel Reinforced

65mm  
Facade System



آموزش، مونتاژ

## System Specification

### EPDM identification and sealing gaskets

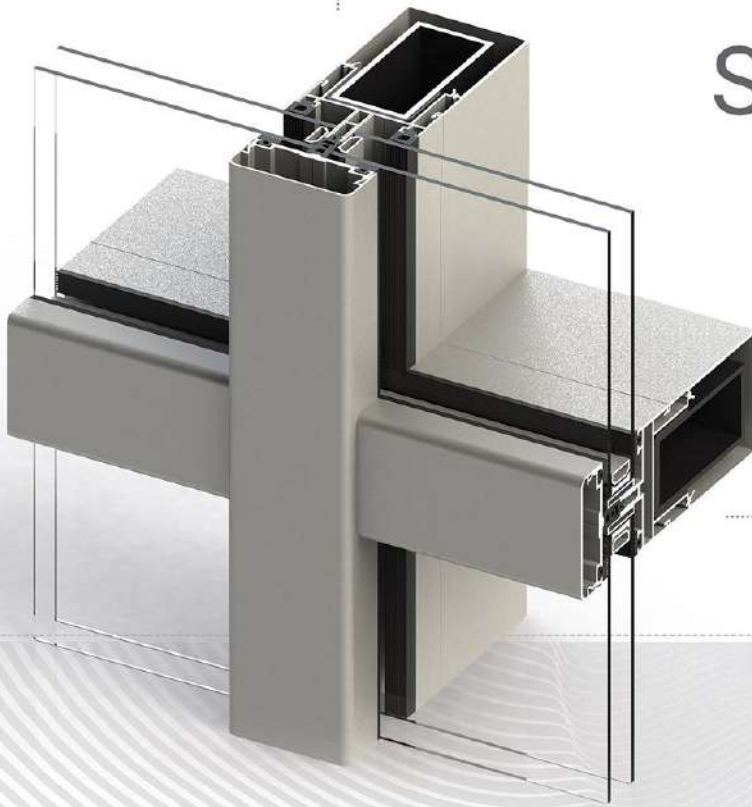
|                               |              |
|-------------------------------|--------------|
| Maximum height of Mullion:    | 162 mm       |
| Minimum height of Mullion:    | 62 mm        |
| Maximum height of Transom:    | 168 mm       |
| Minimum height of Transom:    | 68 mm        |
| Width of Mullion and Transom: | 65 mm        |
| Wall thickness:               | 1.5 - 2.5 mm |
| Glass thickness:              | 6 to 40 mm   |



- Turn
- Tilt and Turn
- Hidden vent
- French
- Parallel
- Tilt and Slide
- Pivot
- Friction

# Steel Reinforced

75mm  
Facade System



آموزش مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                            |              |
|----------------------------|--------------|
| Mullion height:            | 162 mm       |
| Maximum height of Transom: | 168 mm       |
| Minimum height of Transom: | 68 mm        |
| Mullion width:             | 75 mm        |
| Transom width:             | 65 mm        |
| Wall thickness:            | 1.5 - 2.5 mm |
| Glass thickness:           | 6 to 40 mm   |



Turn

Tilt and Turn

Hidden vent

French

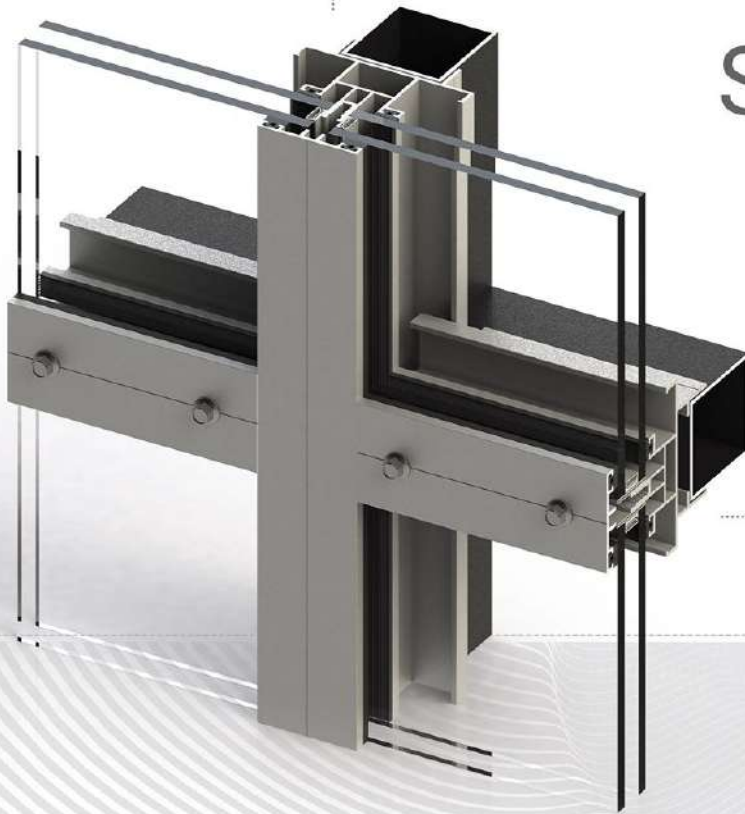
Parallel

Tilt and Slide

Pivot

Friction

# Skylight Facade



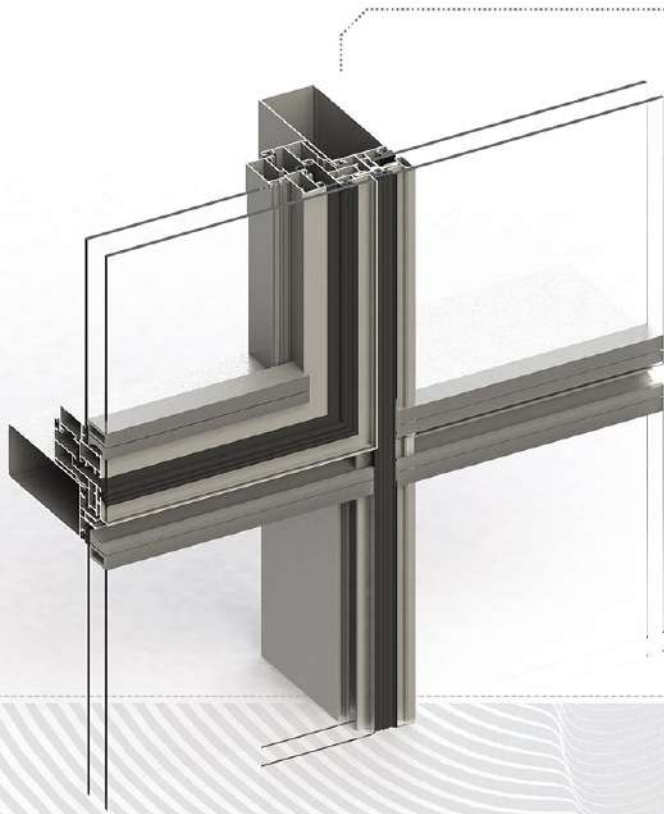
آموزش، مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                               |                          |
|-------------------------------|--------------------------|
| Width of Mullion and Transom: | 85 mm                    |
| Face of outer profile:        | Full glass and U-channel |
| Aluminium Cap:                | 50 mm                    |
| Size of metal Structure:      | 50 mm                    |
| Wall thickness:               | 2 mm                     |
| Glass thickness:              | 6 to 40 mm               |
| Type of opening:              | Skylight outside opening |
|                               |                          |
|                               |                          |
|                               |                          |
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|                               |                          |





# Structural Glazing

Install with Fix and Sliding Piece

Uf: 2.84 W(m2.k)



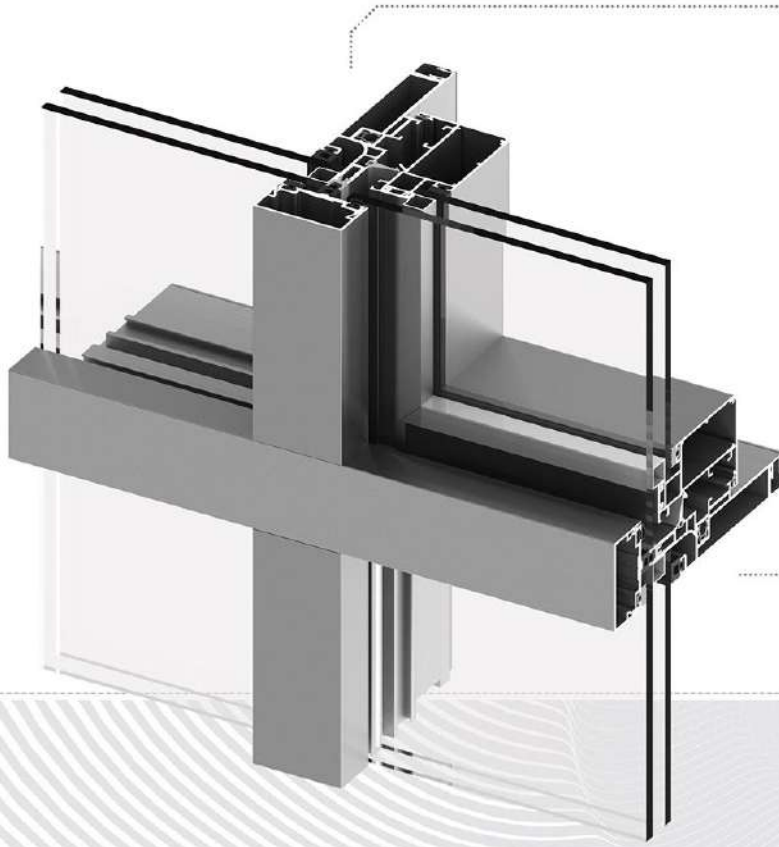
آموزش مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                               |               |
|-------------------------------|---------------|
| Maximum height of Mullion:    | 180 mm        |
| Minimum height of Mullion:    | 100 mm        |
| Maximum height of Transom:    | 162 mm        |
| Minimum height of Transom:    | 80 mm         |
| Width of Mullion and Transom: | 50 - 51 mm    |
| Wall thickness:               | 1.5 - 2.5 mm  |
| Glass thickness:              | 6 to 50 mm    |
| Thermal conductivity:         | Uf: 2.84w/m2k |
|                               |               |
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# Curtain Wall

*Hidden Vent*

Uf: 2.84 W(m2.k)



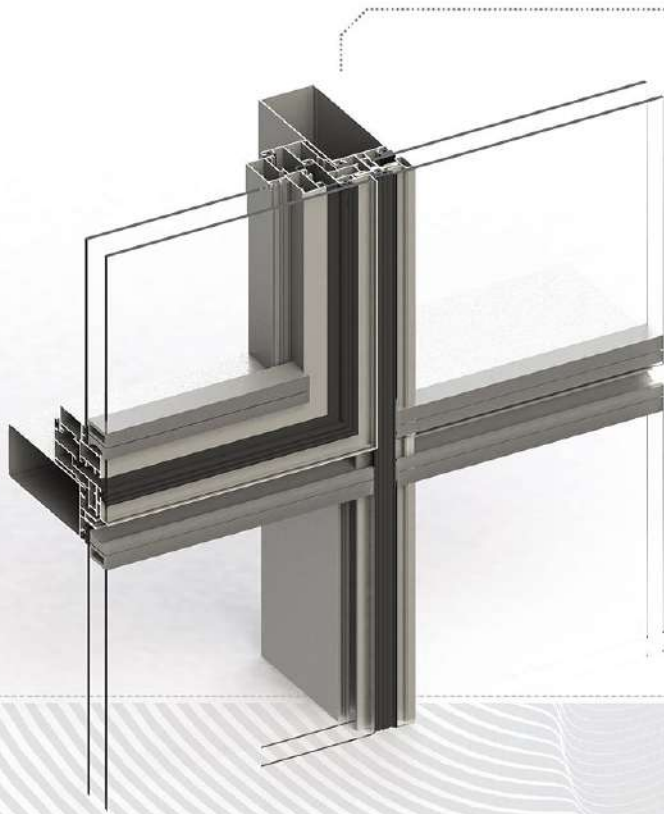
آموزش مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|  |                |
|--|----------------|
| Maximum height of Mullion:               | 180 mm         |
| Minimum height of Mullion:               | 100 mm         |
| Maximum height of Transom:               | 162 mm         |
| Minimum height of Transom:               | 80 mm          |
| Width of Mullion and Transom:            | 50 & 51 mm     |
| Width of Mullion and Transom on opening: | 20 mm          |
| Wall thickness:                          | 1.5 - 2.5 mm   |
| Glass thickness:                         | 6 to 50 mm     |
| Thermal Conductivity:                    | Uf: 2.84 w/m2k |
|  |                |
|  |                |
|  |                |





# Curtain Wall

Hidden Vent Glazing

Uf: 2.84 W(m2.k)



آموزش مونتاژ

## System Specification

### EPDM identification and sealing gaskets

|                               |               |
|-------------------------------|---------------|
| Maximum height of Mullion:    | 180 mm        |
| Minimum height of Mullion:    | 100 mm        |
| Maximum height of Transom:    | 162 mm        |
| Minimum height of Transom:    | 80 mm         |
| Width of Mullion and Transom: | 50 - 51 mm    |
| Wall thickness:               | 1.5 - 2.5 mm  |
| Glass thickness:              | 6 to 50 mm    |
| Thermal conductivity:         | Uf: 2.84w/m2k |
|                               |               |
|                               |               |
|                               |               |
|                               |               |
|                               |               |



- Turn
- Tilt and Tum
- Hidden vent
- French
- Parallel
- Tilt and Slide
- Pivot
- Friction





# Structural Glazing

60mm Caped

$U_{cw} = 1.8 \text{ w/m}^2\text{k}$



آموزش مونتاژ

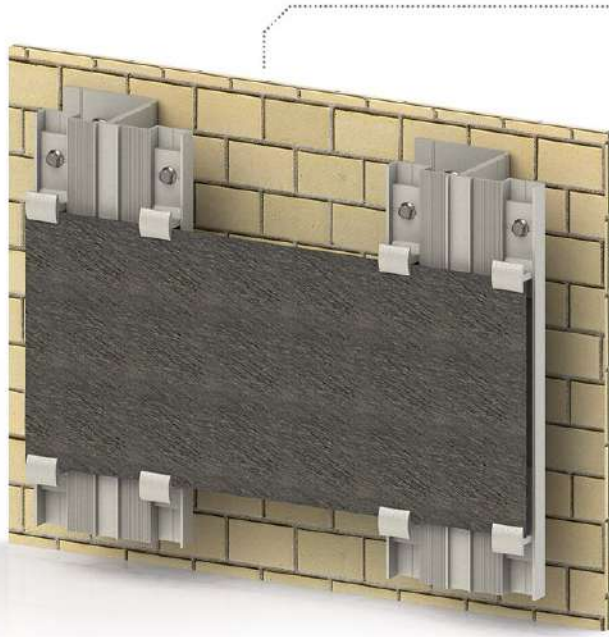
## System Specification

Possibility of installing mullion and transom of one type of profile

EPDM identification and sealing gaskets

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| Biggest size of Mullion and Transom: | 149.8 mm                             |
| inner and outer size of Profile:     | 60 mm                                |
| Wall thickness:                      | 2.8 - 3.2 mm                         |
| Glass thickness:                     | 27.5 to 50 mm                        |
| Thermal Conductivity:                | $U_{cw} = 1.8 \text{ w/m}^2\text{k}$ |





# Facade System

6mm Ceramic



آموزش مونتاژ

## System Specification

Possibility of installing million and transom of one type of profile

EPDM identification and sealing gaskets

### Characteristics Al 6063 T5

|   |   |
|---|---|
| Specific Gravity:                                   | 2.700 kg/m <sup>3</sup>                 |
| Coefficient of Thermal Expansion from 20 to 100 °C: | 23,6 x 10 <sup>-6</sup> K <sup>-1</sup> |
| Modulus of elasticity:                              | 69.500 N/mm <sup>2</sup>                |
| Poisson Coefficient:                                | 0.33                                    |
| Tensile Resistance:                                 | 215 N/mm                                |
| Shear Resistance:                                   | 140 N/mm <sup>2</sup>                   |
| Yield stress (Rp 0,2%):                             | 160 N/mm                                |
| Elongation (L0-mm):                                 | 12%                                     |
| Elongation (L50-mm):                                | 14%                                     |
| Brinell Hardness: 70                                | 70                                      |

### Characteristics AISI 304

|   |   |
|---|---|
| Specific Gravity:                                   | 7.930 kg/m <sup>3</sup>                 |
| Coefficient of Thermal Expansion from 20 to 100 °C: | 17.3 x 10 <sup>-6</sup> K <sup>-1</sup> |
| Modulus of elasticity:                              | 190.000 N/mm <sup>2</sup>               |
| Poisson Coefficient:                                | 0.33                                    |
| Tensile Resistance:                                 | 540-750 N/mm                            |
| Yield stress (Rp 0,2%):                             | ≥ 230 N/mm                              |
| Elongation (L0-mm):                                 | <45%                                    |
| Brinell Hardness:                                   | 183                                     |



- Turn
- Tilt and Turn
- Hidden vent
- French
- Parallel
- Tilt and Slide
- Pivot
- Friction



# Composite Panel

Systems



آموزش، مونتاژ

## System Specification

**EPDM identification and sealing gaskets**

Possibility of installation with T and U shaped aluminum Mullions

Application of **EPDM** rubber in the joint point

Resistance to building vibrations and static stresses to the facade

More durability and corrosion resistance

Possibility of replacing panels in different cases

Installation of joints with bolts and the possibility of estimating the engineering of the substructure



- Turn
- Tilt and Turn
- Hidden vent
- French
- Parallel
- Tilt and Slide
- Pivot
- Friction



# Cottal

## Aluminium Cladding System



آموزش، مونتاز

### System Specification

#### EPDM identification and sealing gaskets

Ability to create surfaces with various geometric shapes

Chemical corrosion resistance

Installation of EPDM rubber between the panels and the possibility of creating tension resistance in the structure

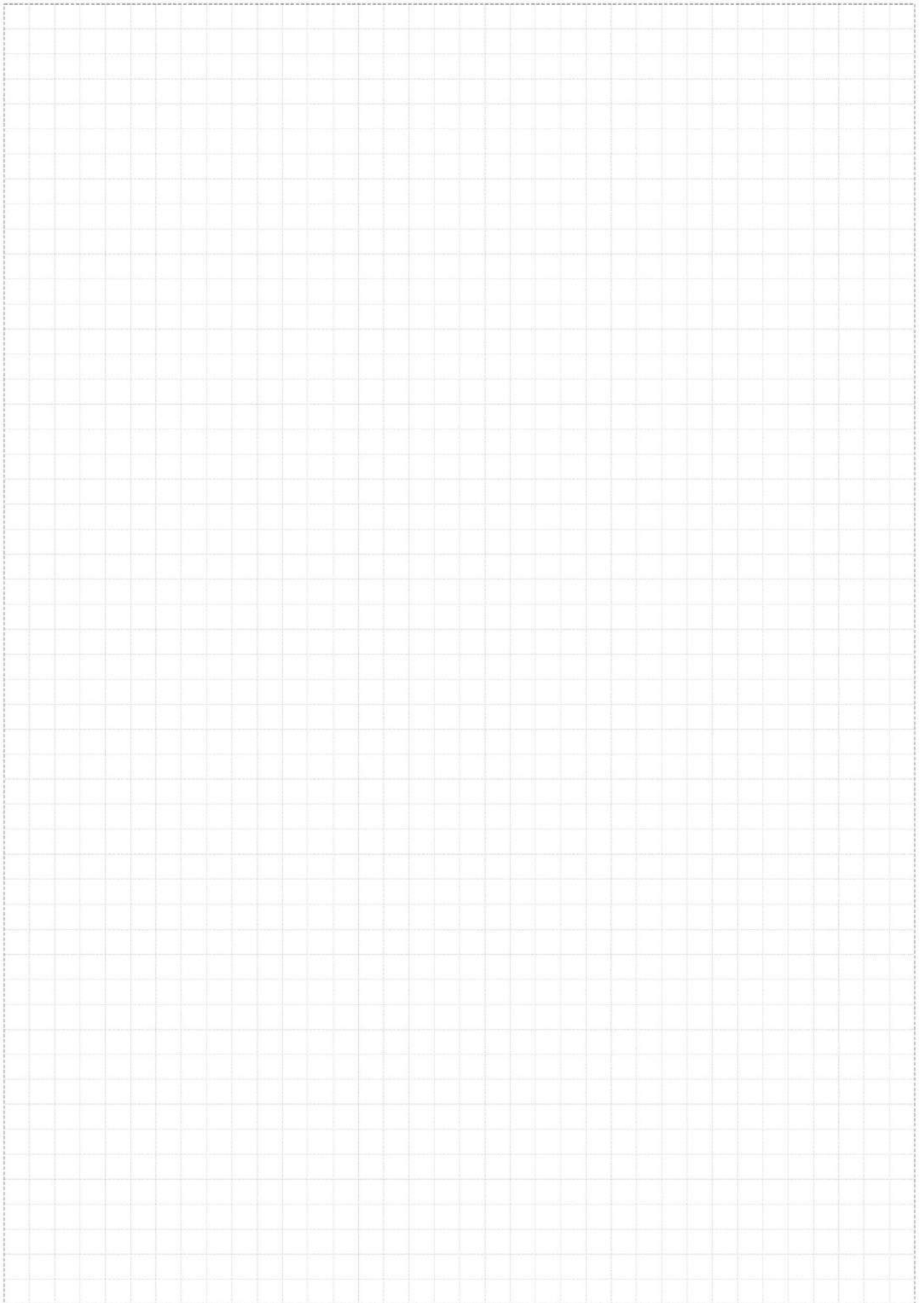
Installation of joints with bolts and the possibility of estimating the engineering of the substructure

Possibility of creating internal and external arches in the facade of the building

- 
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- 



- Turn
- Tilt and Turn
- Hidden vent
- French
- Parallel
- Tilt and Slide
- Pivot
- Friction





Top brand in the production of aluminum profiles by the Aluminum Industries Syndicate of Iran for Ten consecutive years from 2012 to 2022





Golden statue of consumer rights in the years 2018 to 2022 (5 periods)



**Awards Donated to Akpa Iran:**

- 1 The Best Units Sign in Fajr 2010
- 2 he Best Entrepreneur Sign in Fajr 2010
- 3 The Superior Brand Sign in 2013
- 4 The Superior Brand Sign in 2015
- 5 The Superior Brand Sign in 2017
- 6 The Largest Producer of Aluminum Profills Statue by the Aluminum Syndicate in 2011
- 7 The Largest Producer of Aaluminum Profills Statue by the Aluminum Syndicate in 2013
- 8 The Largest Producer of Aluminum Profills Statue by the Aluminum Syndicate in 2015
- 9 The Largest Producer of Aluminum Profills Statue by the Aluminum Syndicate in 2017
- 10 Pro-labor Employers Honoring Statue by the Social Security Organization
- 11 Iran National Standard License
- 12 Technical Certification of the Research Center of Housing and Urban Development in 2022

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Designing and Production of Specific Aluminum Profiles and Thermal Break with Electrostatic Powder Coating, Decoral, Anodizing and Sales of Door & Window Fitting and Machinery

AN AUDIT WAS PERFORMED, REPORT No. RC-1119-QEOR-TIC-MS-1002647-19

Expiring date 10.11.2022

*L. Leest*

Nov. 11. 2019 Eng. K. Lindemann  
TUV InterCert Saarland Body

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Expiring date 10.11.2022

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Nov. 11. 2019 Eng. K. Lindemann  
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**ISO 10002:2018**

QUALITY MANAGEMENT - CUSTOMER SATISFACTION GUIDELINES FOR COMPLAINTS HANDLING IN ORGANIZATIONS

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*L. Leest*

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TUV InterCert Saarland Body

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**ATTESTATION**

Attestation No. 19-B2B4-1002647-TIC

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**ISO 10004:2018**

QUALITY MANAGEMENT - CUSTOMER SATISFACTION GUIDELINES FOR MONITORING AND MEASURING

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*L. Leest*

Nov. 11. 2019 Eng. K. Lindemann  
TUV InterCert Saarland Body

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**ISO 50001:2011**

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Expiring date 19.08.2021  
(0.11.2022 after transition to ISO 50003:2018)

*L. Leest*

Nov. 11. 2019 Eng. K. Lindemann  
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ISO 14001:2015  
ISO 45001:2018**

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Expiring date 10.11.2022

*L. Leest*

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**TÜV WORLD**  
**Registration Certificate**  
**Attestation of Compliance**

Order No. 9992647

**Holder:** Akpa Iran Kish Co.  
**Products:** Aluminum Profiles with Electrostatic Powder Coating, Decoral & Anodizing  
**Factory:** No. 86, Sanaat Sq., Europe St., 2nd Asia Ave., Foreign Investment Town, Tabriz, Iran

This attestation of compliance is hereby issued for the above named company.  
The use of this registration is only based on data in ISO Certificates.  
Self-certified and industrial file not provided by company in this document.

**Directive:** Regulation (EU) No. 301/2013

This device has been shown to be in compliance with the technical file and assessment file. (to be updated by company)

Issue of Issue: 26 Sep 2019  
Expiry Date: 26 Sep 2021

*Hans Jullien*

[www.tuv.com](http://www.tuv.com)

**TÜV WORLD**  
**Registration Certificate**

This Certificate Confirms that the Management System of

**Akpa Iran Kish Co.**  
No. 86, Sanaat Sq., Europe St., 2nd Asia Ave., Foreign Investment Town, Tabriz, Iran

Has been audited and approved by TÜV WORLD to the Following Standard or Guidelines:

**ISO 9001:2015  
ISO 14001:2015  
ISO 45001:2018**

The approved management system applies to the following scope:

Designing & Production of Specific Aluminum Profiles and Thermal Break with Electrostatic Powder Coating, Decoral, Anodizing, Precision & Distribution of Fitting and Sale of Door & Window Machinery

Original Approval: 26 Sep 2019  
First Surveillance: 26 Sep 2020  
Certificate Expiry: 26 Sep 2022  
Certificate Number: 9992647

*Hans Jullien*

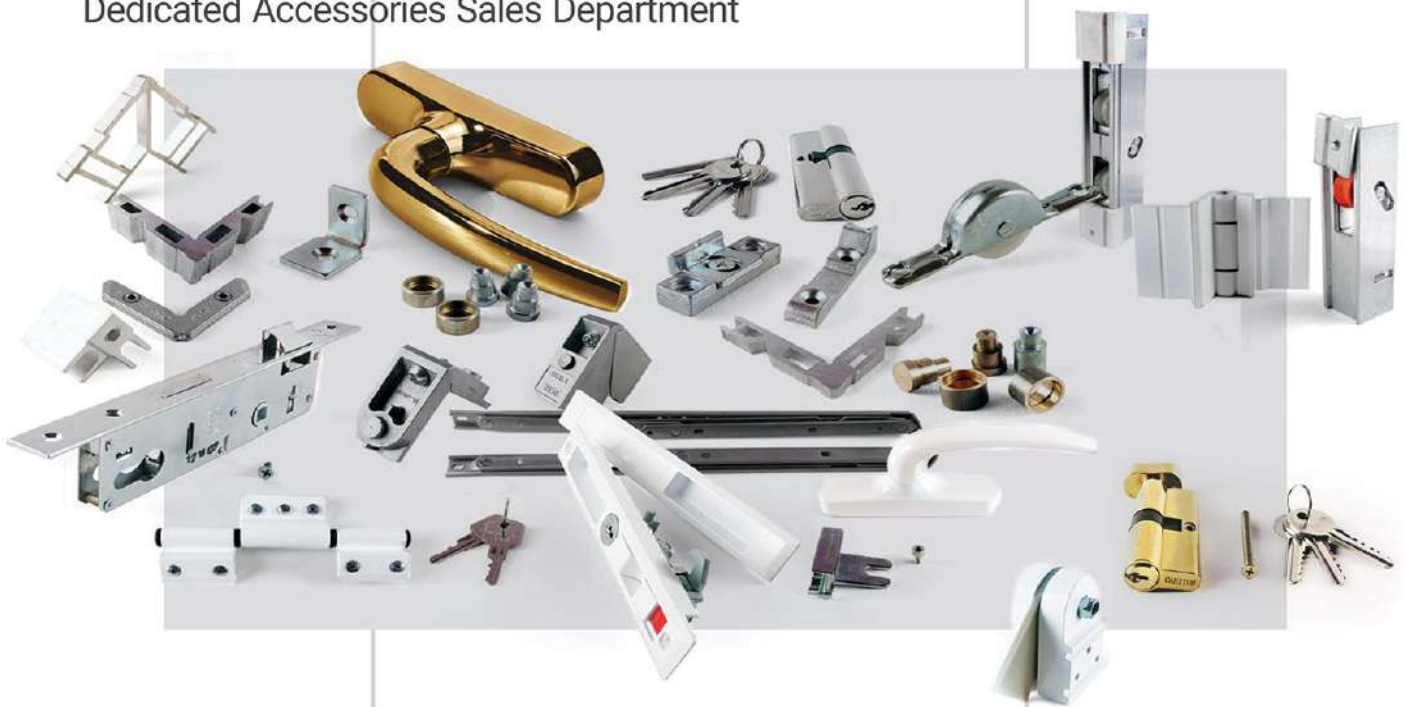
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تاریخ صدور: ۱۴۰۲/۰۱/۰۱

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expiring date : 2023.05.11  
تاریخ اعتبار : ۱۴۰۲.۱۲.۰۱

Gholamreza Hakimi  
CEO



تائیدیه گواهی نامه  
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Violation report  
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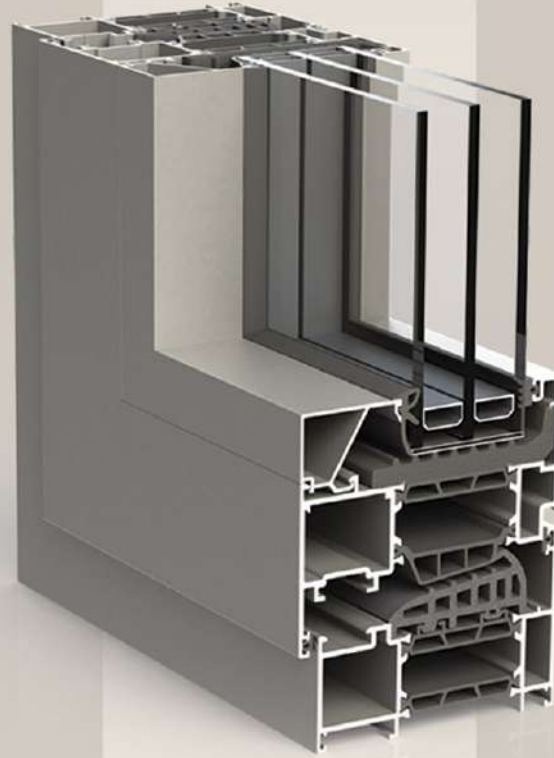


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 تلفن : ۰۴۱-۳۱۰۳۳۱۰۳ فکس : ۰۴۱-۳۲۴۶۶۰۹۹۹  
 دفتر فروش تهران : زعفرانیه، خیابان مقدس اردبیلی،  
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**Tehran Sales Office:** 3 Unit, 11th floor, No. 15, Corner  
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