TRIFLEX

INTERNATIONAL

Façades solutions

EXCELLENCE AND BEYOND

Introduction

In 2007 ***Triflex International*** corner stone has been laid by its founder ***Eng. Ahmed Abo Elmagd***.

Since then ***Eng. Abo Elmagd*** selected the best experienced engineers and the most efficient manpower to provide what he believes in ***(Excellence and Beyond)***.

Triflex International excelled in implementing the most accurate facade works within various sectors available in the market, whether local or imported sectors.

And ***Triflex International*** carried out successfully many projects of all types of buildings covering all sectors ***(administrative, residential, commercial, hospitality, health care, governmental, services, charity, etc.)***

In 2010, Chairman of the Board ***Eng. Ahmed Abo Elmagd*** laid the corner stone for the first factory of the company to manufacture all the needs of customers, including doors, windows, partitions, roofs and facades using various aluminum sectors considering the best raw materials and most accurate installations, taking into consideration the company's local and international experiences.

This gave ***Triflex International*** the preference to represent the best manufacturers of aluminum and glass sectors ***locally and internationally*** since 10 years and more.

2012/2013, after ***Triflex International*** spread all over the nation, the company proceeded its `management, sales, technical and marketing experienced calibers from all over the world, in order to ensure the efficiency of the implemented projects.

Finally, during the past few years ***2016 - 2020***, despite the difficulties and crises that the country and the whole world went through, hard work and exceptional projects continued without interruption, because ***Triflex International*** has a vision, mission, and values that have never been and will never be abandoned by any member of ***Triflex International*** family.

Vision - Mission - Values

Vision

As our accumulative experience in façade solutions qualifies us to expand and develop continuously, we've got the vision to lead the aluminum manufacturing sector not only in Egypt but international wise.
Our aim not to be the first company, we aim to be the only providers of exceptional façade solutions.

Mission

We believe we have to improve people's lives by enhancing their building's performance.
We enhance building's performance by providing solutions with high aesthetic results in accordance to the latest architectural trends.
We provide façade that are energy efficient through our latest products of thermal and acoustic insulation and basically sun shading systems.
We secure façade levels against burglaries, fire, smokes, dust, and weather conditions.
We provide façade with renewable energy.

Values

Triflex International has nonnegotiable values

- Honesty : with our customers.
- Loyalty : to our community.
- Commitment : to highest standards.
- Perseverance : to work hard.
- Insistence : to be the only one not just the first.

Building façade is a building enclosure which is all of the elements of the outer shell that maintain a dry, heated or cooled indoor environment and facilitates its climate control.

Building envelop design is a specialized area of architectural and engineering practice that draws from all areas of building science and indoor climate control.

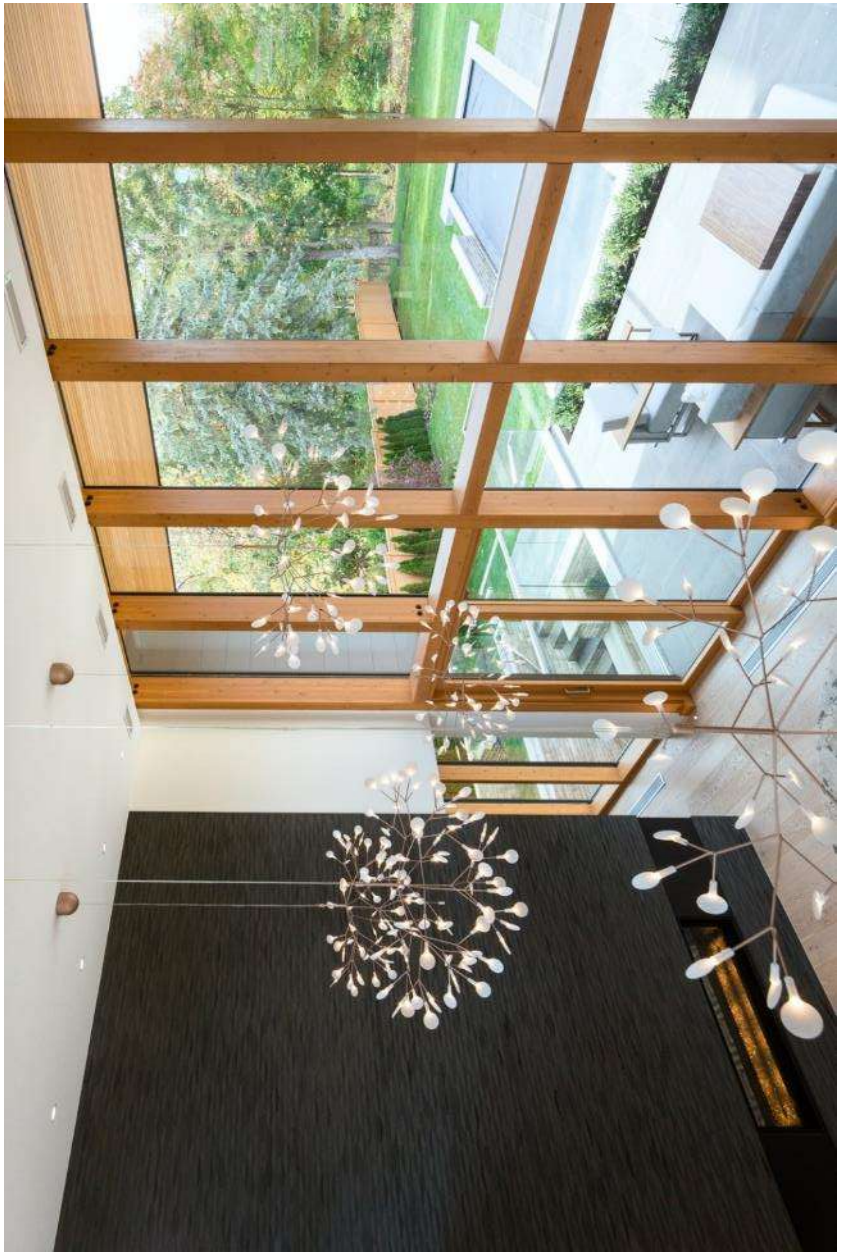
The many functions of the building envelope can be separated into three categories

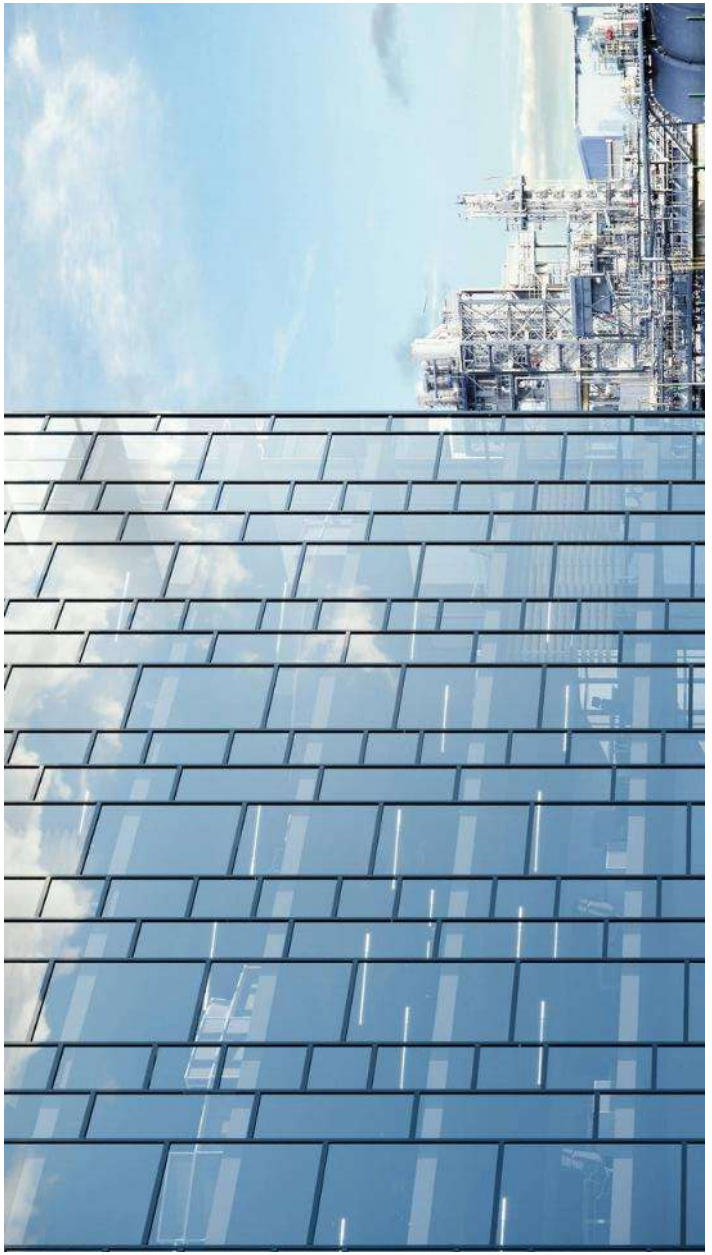
- Support (to resist and transfer structural and dynamic loads)
- Control (the flow of matter and energy of all types)
- Finish (to meet desired aesthetics on the inside and outside
- The control function is at the core of good performance, and in practice focuses, in order of importance, on rain control, air control, heat control, and vapor control.

Aluminum curtain walls

Scope of expertise

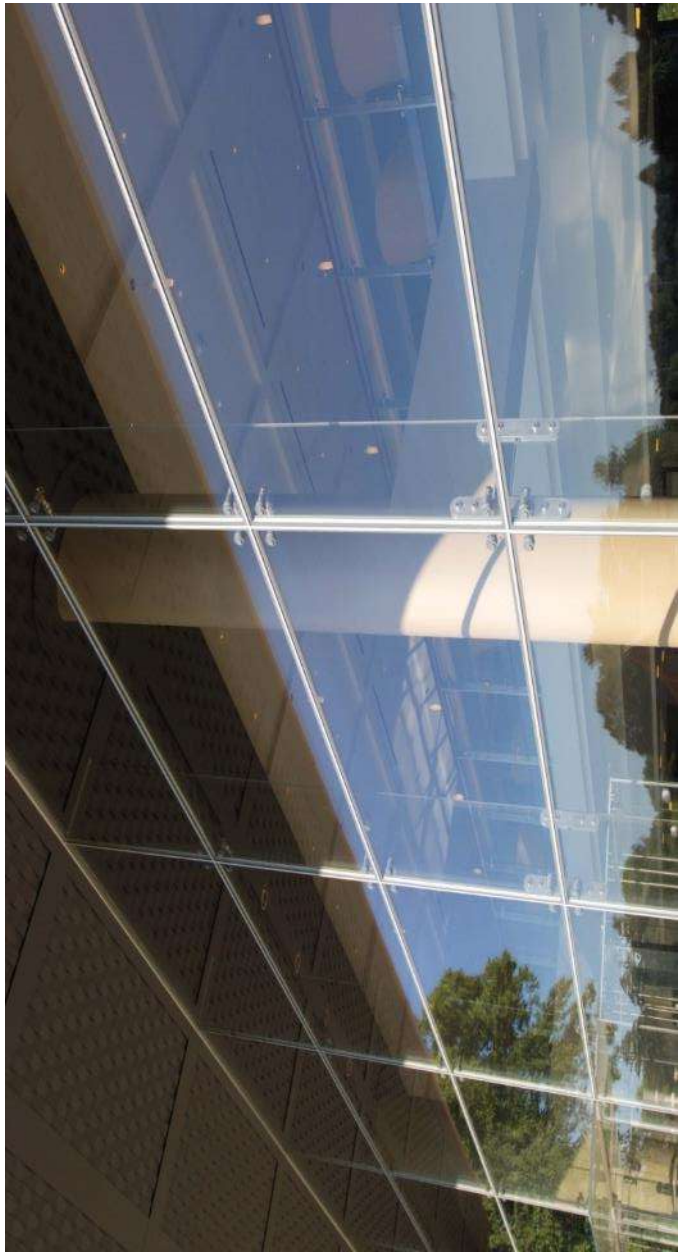
Scope of expertise





Structure Glazing

Scope of expertise



Aluminum Windows, Doors & Louvers

Scope of expertise

Scope of expertise

Aluminum Skylights & Rooflights

Scope of expertise

III

Scope of expertise

Balustrades & Handrails

Scope of expertise

Scope of expertise

Cladding

III

Scope of expertise

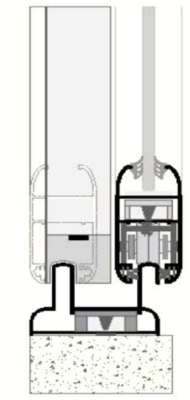
Partitioning

Scope of expertise

Suspended Glass (Spider)

Scope of expertise

Fly Screens



M900 AERO

Cost-effective product line for sliding frames

Basic characteristics:

- ✓ Intended for small to medium size openings
- ✓ 28 mm sash width
- ✓ Supports all sliding systems' typologies
- ✓ Offers basic impermeability and sound insulation
- ✓ Cooperates perfectly with the M940 Mini "tilt-and-turn" system
- ✓ Supports glazing between 6 mm and 19 mm

PROFILE TECHNICAL SPECIFICATIONS	
Extruded Alloy	Al Mg Si 0,5 F22 (6063) DIN 1725
Hardness	12-14 HB
Minimum Powder Coating Thickness	60-90 microns
Profile Thickness (min-max)	1,3 – 1,6 mm
Profile Geometry Control	DIN 17615 Compliant

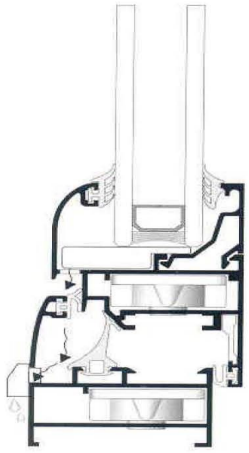
TECHNICAL CHARACTERISTICS OF TYPOLOGIES	
Sash Dimensions (Width\Height)	28 / 61 mm
Sliding Movement	Single or double Teflon roller
Glazing Type	Single or double, up to 19mm
Glazing Weight	Up to 80 kg with double roller
Sealing	Perimetrical, with two rows of high density brushes

Product Line Construction Options:

- ✓ Interlocking (with or without a fly-screen)
- ✓ Internal Fusible (glazing or glazing with shutter or glazing with shutter and fly-screen)
- ✓ External Fusible (glazing or glazing with shutter or glazing with shutter and fly-screen)

Certifications:

- ✓ The design, the production process, and the quality control of all profiles produced by Alumil are certified with ISO 9001.
- ✓ The process of electrostatic powder coating is certified by QUALICOAT and GSB in all plants operated by Alumil.



ALUMIL M940 Mini

The smallest and lightest product line for "tilt-and-turn" frames

Basic characteristics:

- ✓ 37 mm sash width
- ✓ "ALUSEAL" perimetrical sealing system, with three levels of EPDM gaskets.
- ✓ Supports all "tilt-and-turn" typologies.
- ✓ Cooperates perfectly with the M900 Aero for sliding fames.
- ✓ Supports single or double glazing, from 10 to 26 mm.

PROFILE TECHNICAL SPECIFICATIONS	
Extruded Alloy	AlMgSi0.5 6063
Hardness	12-14 HB
Minimum Powder Coating Thickness	0,75 mm
Profile Thickness (min-max)	
Profile Geometry Control	DIN 17615 Compliant

PRODUCT LINE TECHNICAL CHARACTERISTICS	
Basic Sash Width (Actual/Effective)	44\37 mm
Glazing Type	Single or Double, from 10 to 26 mm
Glazing Weight	
Sealing	"ALUSEAL" perimetrical sealing system, with three levels of EPDM gaskets

Construction options:

- ✓ One or two-sash doors and windows, with or without shutters.
- ✓ Main entrances.
- ✓ Profiles for angular constructions and other special applications.
- ✓ Perfect cooperation with Alumil's M900 Aero for sliding fames

Certifications:

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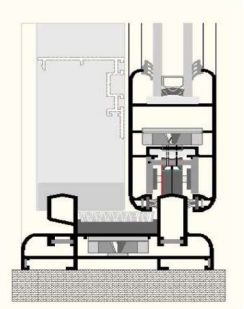
- ✓ The process of electrostatic powder coating is certified by QUALICOAT and GSB in all plants operated by Alumil.



M9200 EXCLUSIVE

Product line for sliding windows, with distinctive curved appearance.

PROFILE TECHNICAL SPECIFICATIONS	
Extruded Alloy	Al Mg Si 0.5 6063
Hardness	12-14 HB
Minimum Powder Coating Thickness	60-90 microns
Profile Thickness (min-max)	1,3 – 1,6 mm
Profile Geometry Control	DIN 17615 Compliant

PRODUCT LINE TECHNICAL CHARACTERISTICS	
Sash Dimensions (Width\Height)	38\82 mm
Sliding Movement	Single or Double teflon roller
Glazing Type	Single or Double, up to 20 mm
Glazing Weight	Up to 120 Kg with a double roller
Sealing	Perimetrical, with two rows of high-density brushes

Product Line Construction Options:

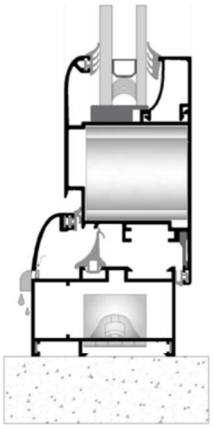
- ✓ Interlocking (with or without a fly-screen)
- ✓ Internal Fusible (glazing or glazing with shutter or glazing with shutter and fly-screen)
- ✓ External Fusible (glazing or glazing with shutter or glazing with shutter and fly-screen)

Certifications:

- ✓ The design, the production process, and the quality control of all profiles produced by
- ✓ Alumil are certified with ISO 9001.
- ✓ The process of electrostatic powder coating is certified by QUALICOAT and GSB
- ✓ In all plants operated by Alumil.

ALUMIL M9400 Softline Plus

M 9400 SOFTLINE PLUS
Product lines for "tilt-and-turn" frames, with a 45 mm sash and wide variety of supported typologies.



M9400

Basic characteristics:

- ✓ 45 mm basic sash width
- ✓ "ALUSEAL" impermeability and water-tightness system
- ✓ Large design variety, offering many aesthetic alternatives for both internal and external frame surfaces.
- ✓ Specially-designed profiles for wood-alike frame construction.
- ✓ Variety of profiles, supporting all "tilt-and-turn" typologies.

TECHNICAL SPECIFICATION OF PROFILES	
Aluminum alloy	AlMgSi 0.5 F22 6063 (DIN 1725)
Hardness	12-14 HB
Minimum Powder Coating Thickness	0,75 mm
Profile thickness (min-max)	1,8 – 5,0 mm
Profile Geometry Control	DIN 17615 Compliant

TECHNICAL SPECIFICATIONS OF SYSTEM TYPOLOGIES	
Basic sash width	45 mm
Glazing types	Single or double, from 10 up to 32 mm
Maximum glazing weight	75 kg using a plain hinge 130 kg using heavy-load hinges
Sealing	"ALUSEAL" system, with EPDM gaskets applied in 3 levels. Class C (DIN 18055)

Certifications:

- ✓ The design, the production process, and the quality control of all profiles produced by Alumil are certified with ISO 9001.
- ✓ The process of electrostatic powder coating is certified by QUALICOAT and GSB in all plants operated by Alumil.

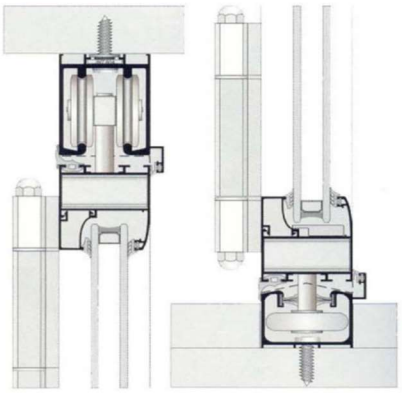
- ✓ M9400 SOFTLINE PLUS is certified by the globally-acknowledged German institute IFT ROSENHEIM, achieving Gruppe C (DIN18055) impermeability classification.

ALUMIL M9800 Accordion

Product line for accordion doors, distincted by its low accessories' cost and its fast and easy fabrication methodology.

Basic characteristics:

- ✓ 50 mm sash width
- ✓ Combination of teflon sliding roller and sash-connecting hinge into a single accessory, able to support 250 Kg (125 Kg per sash)
- ✓ Sealing with both EPDM gaskets and high-density brushes
- ✓ Low threshold for comfortable access and passage
- ✓ Availability of locking door construction, opening inwards or outwards
- ✓ Supports constructions with theoretically infinite sashes, surpassing restrictions that were present in accordion doors with traditional external mechanisms (i.e short external guides, substantial cost increase for every extra sash, etc)
- ✓ Includes special leveling profiles, which adjust the construction to the walls' slope
- ✓ Supports single, double or triple glazing, from 24 up to 32 mm



TECHNICAL SPECIFICATIONS OF PROFILES	
Aluminum alloy	AlMgSi0.5 F22 6063 (DIN 1725)
Hardness	12-14 HB
Minimum Powder Coating Thickness	0,75 mm
Profile thickness (min-max)	1,4 – 1,8 mm
Profile Geometry Control	DIN 17615 Compliant

TECHNICAL SPECIFICATIONS OF SYSTEM TYPOLOGIES	
Basic sash width	50 mm
Glazing supported	Single, double or triple, from 24 up to 32 mm
Maximum glazing weight	250 Kg per roller (-hinge) thus 125 Kg per sash
Sealing	Two level sealing, using two rows of EPDM gaskets and/or high-density brushes

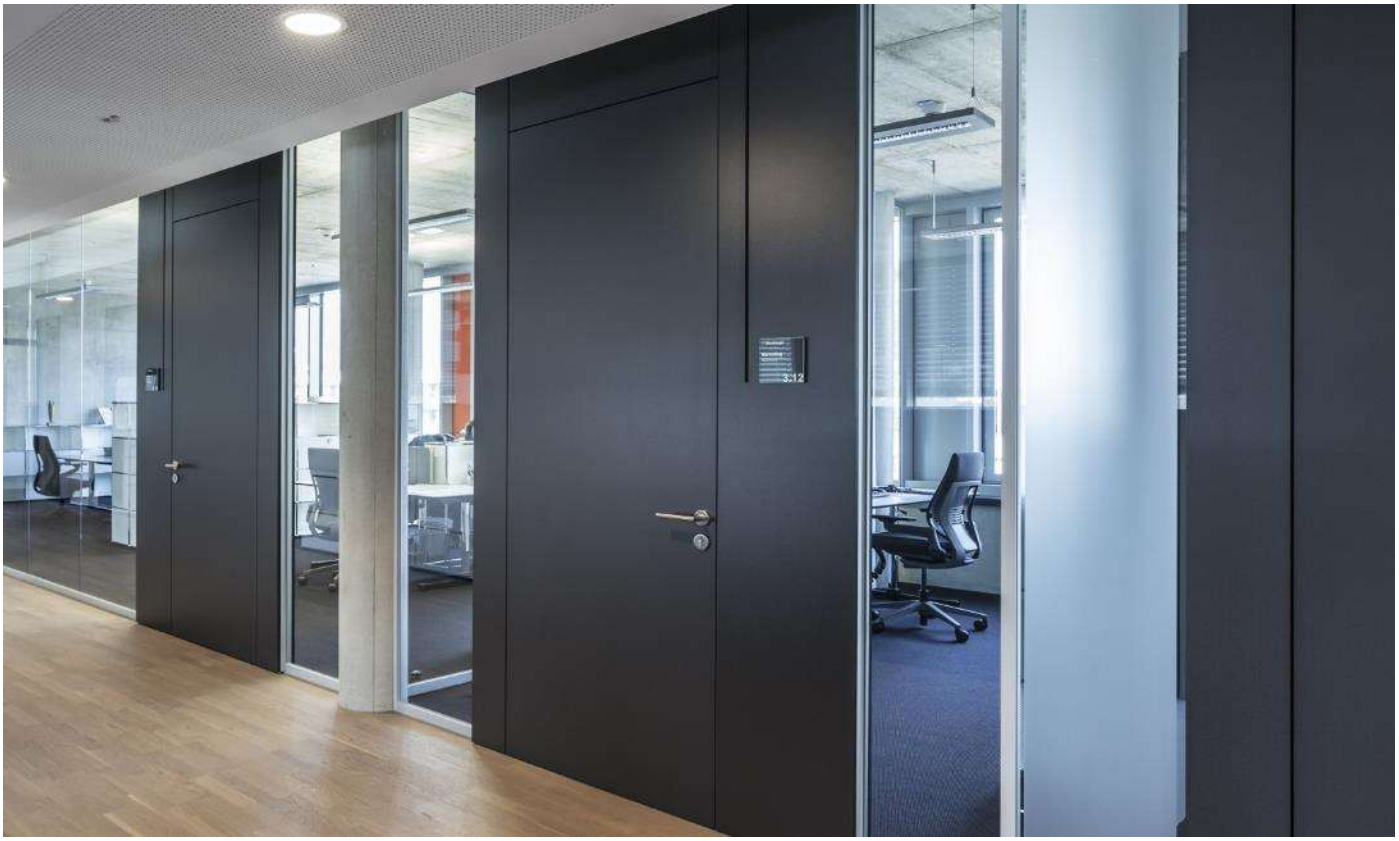
Construction options:

- ✓ Accordion doors, starting from at least three, and ending to a theoretically infinite number of sashes
- ✓ Option of both symmetrical and asymmetrical construction, limited only by an odd number of sashes in each folding side
- ✓ Option of installing "tilt-and-turn" sashes on the folding ones
- ✓ Availability of constructing sash partitions, using a "T" profile in the folding sashes
- ✓ Availability of shutter construction

Certifications:

- ✓ The design, the production process, and the quality control of all profiles produced by Alumil are certified with ISO 9001.
- ✓ The process of electrostatic powder coating is certified by QUALICOAT and GSB in all plants operated by Alumil.

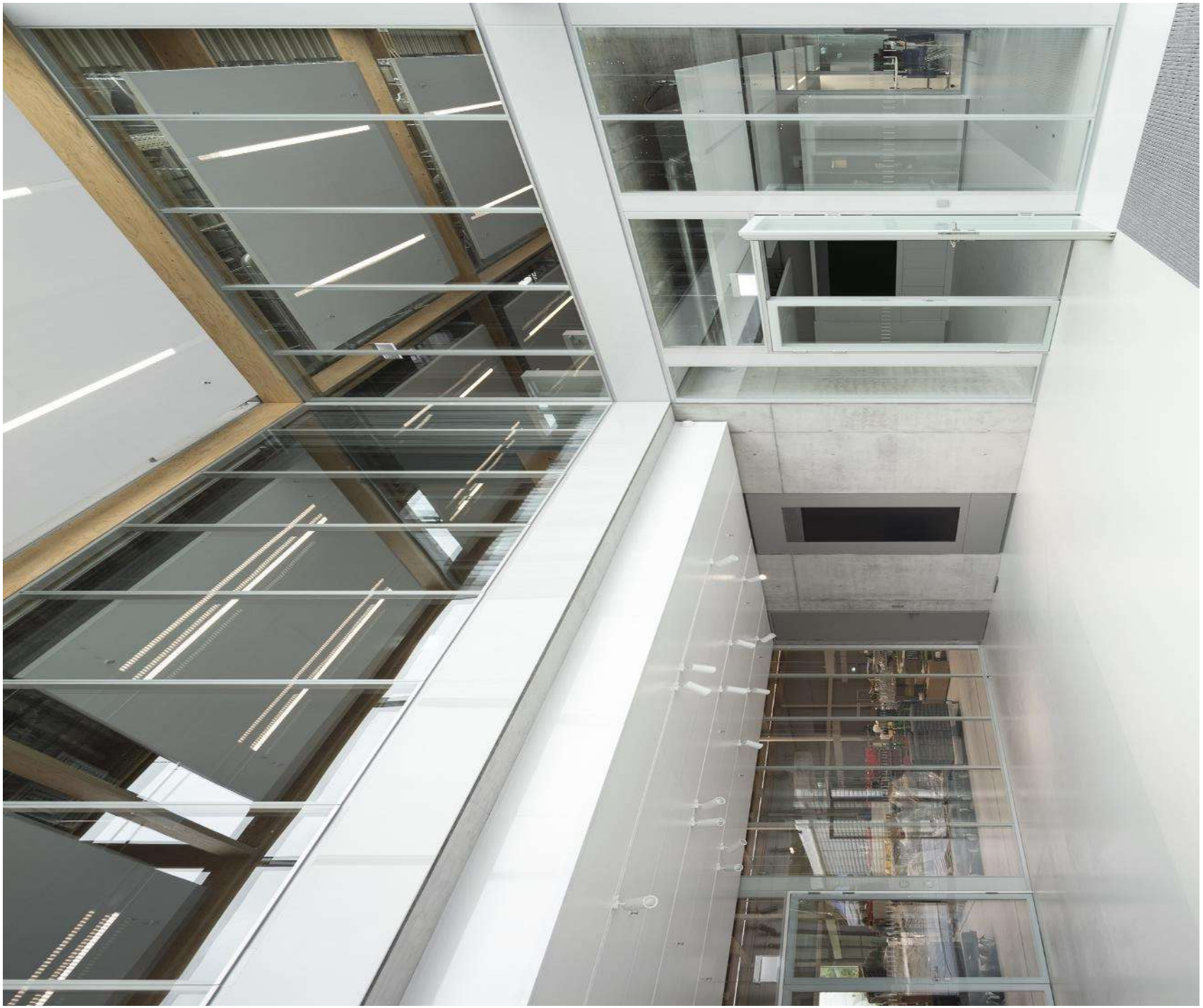
feco



Business Partners

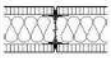
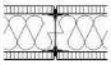
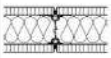
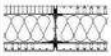
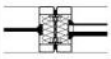
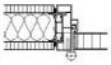
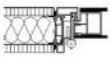
Business Partners

Business Partners



feco

feco product overview

Product	Detail	Description	Wall thickness	Panel/Glass/ Door leaf thickness	Visible width vertical/ horizontal	Sound insulation test values $R_{w,P}$	Fire resistance
feco**wand**		Solid wall	105 mm	2 x 19 mm	-	47-52 dB	EI30 EI90
feco**wand**		Solid wall in special thickness	125 mm 175 mm	2 x 19 mm	-	47-57 dB	EI30
feco**orga**		Wall organisation	105 mm	2 x 19 mm	-	45-52 dB	EI30 EI90
feco**phon**		Acoustic solid wall	105 mm	2 x 19 mm	-	27-49 dB	-
feco**plan**		All-glass construction	35 mm	10-18 mm	0/50 mm	35-42 dB	-
feco**cent**		Wall-centered glazing	105 mm	8 mm 28 mm	35/35 mm	32-37 dB 37-42 dB	G30 F30
feco**fix**		Wall-flush glazing	105 mm	1 x 5-8 mm 2 x 5-8 mm	20/20 mm	32-37 dB 39-49 dB	F30
feco**struct**		Face-flush glazing	105 mm	1 x 6-8 mm 2 x 6-8 mm	20/20 mm	32-37 dB 39-47 dB	-
feco**tür** Wood		Wooden doors	105 mm	40-105 mm	18-50 mm	23-42 dB	T30
feco**tür** Glass		Glassdoors	105 mm	10 mm 40-105 mm	18-50 mm	23-32 dB 32-42 dB	-

The feco partition wall system is constantly being further developed.
Ask us about the latest innovations.

Business Partners

REYNAERS aluminium

TECHNICAL CHARACTERISTICS		FUNCTIONAL	RENAISSANCE	DECO
Min. visible width inward opening window	Frame	60 mm		
	Vent	37 mm		
Min. visible width inward opening window-door	Frame	60 mm		
	Vent	67 mm		
Min. visible width T-profile		87 mm		
Overall system depth window	Frame	97 mm	107 mm	107 mm
	Vent	107 mm		
Rebate height		27 mm		
Glass thickness	Frame	up to 88 mm		
	Vent	up to 88 mm	up to 78 mm	up to 78 mm
Glazing method		60 mm glass fibre reinforced noryl strips		

PERFORMANCES											
	ENERGY										
	Thermal insulation (1) EN ISO 10077-2	Uf-value down to 0.78 W/m²K depending on the frame/vent combination and the glass thickness.									
	COMFORT										
	Acoustic performance (2) EN ISO 140-3; EN ISO 717-1	Rw (C; Ctr) = 46 (-1; -4) dB / 50 (-1;-2) dB, depending on glazing type									
	Air tightness, max. test pressure (3) EN 1026; EN 12207	1 (150 Pa)		2 (300 Pa)			3 (600 Pa)		4 (600 Pa)		
	Water tightness (4) EN 1027; EN 12208	1A (0 Pa)	2A (50 Pa)	3A (100 Pa)	4A (150 Pa)	5A (200 Pa)	6A (250 Pa)	7A (300 Pa)	8A (450 Pa)	9A (600 Pa)	E900 (900 Pa)
	Wind load resistance, max. test pressure (5) EN 12211; EN 12210	1 (400 Pa)		2 (800 Pa)		3 (1200 Pa)	4 (1600 Pa)		5 (2000 Pa)	Exxx (> 2000 Pa)	
	Wind load resistance to frame deflection (5) EN 12211; EN 12210	A (≤ 1/150)				B (≤ 1/200)			C (≤ 1/300)		
	SAFETY										
	Burglar resistance (6) EN 1627-1630	RC 1				RC 2			RC 3		

This table shows possible classes and values of performances. The values indicated in red are the ones relevant to this system.

(1) The Uf-value measures the heat flow. The lower the Uf-value, the better the thermal insulation of the frame.
(2) The sound reduction index (Rw) measures the capacity of the sound reduction performance of the frame.
(3) The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.
(4) The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.
(5) The wind load resistance is a measure of the profile's structural strength and is tested by applying increasing levels of air pressure to simulate the wind force. There are up to five levels of wind resistance (1 to 5) and three deflection classes (A,B,C). The higher the number, the better the performance.
(6) The burglar resistance is tested by statistical and dynamic loads, as well as by simulated attempts to break in using specified tools.

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	Air tightness, max. test pressure (3) EN 1026; EN 12207	1 (150 Pa)		2 (300 Pa)		3 (600 Pa)		4 (600 Pa)			
	Water tightness (4) EN 1027; EN 12208	1A (0 Pa)	2A (50 Pa)	3A (100 Pa)	4A (150 Pa)	5A (200 Pa)	6A (250 Pa)	7A (300 Pa)	8A (450 Pa)	9A (600 Pa)	E900 (900 Pa)
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	Wind load resistance to frame deflection (5) EN 12211; EN 12210	A (≤ 1/150)				B (≤ 1/200)			C (≤ 1/300)		
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(6) The burglar resistance is tested by statistical and dynamic loads, as well as by simulated attempts to break in using specified tools.

DESIGN

The unique MasterLine 8 windows concept offers up to 4 design variants, each with their own distinct look and feel, which make MasterLine 8 suitable for any architectural style.

Needless to say, MasterLine 8 can easily be integrated with other Reynaers Aluminium systems, such as CP 130 and CP 155 sliding systems, the RB glass balustrade, the Mosquito system, and curtain wall system CW 50.

The unique concept makes it possible to combine an extensive range of window opening types, design variants, and different levels of thermal insulation.

FUNCTIONAL

The straightforward design of the MasterLine 8 Functional variant is beautiful in its simplicity, and is suitable for both modern and contemporary buildings.

RENAISSANCE

The MasterLine 8 Renaissance windows have been redesigned, more true to the traditional ogee detailing in heritage windows. The sash is recessed to the frame on the exterior side and the detailing is more refined.

DECO

MasterLine 8 Deco windows offer a modern, unique design that stands out and gives a contemporary feel. The sash is recessed to the frame on the exterior side and the sloped detailing brings a finepalette of reflections and shading.

HIDDEN VENT

For a modern minimalistic appearance MasterLine 8 offers the Hidden Vent system. With Hidden Vent profiles the vents are covered by the outer frames and transoms, which allows for a concealed install of the opening elements behind the window reveal.

PERFORMANCES											
ENERGY											
	Thermal Insulation windows[1] EN ISO 10077-2	Uf-value down to 1.0 W/m²K depending on the frame/vent combination and the glass thickness.									
	Thermal Insulation doors[1] EN ISO 10077-2	Uf-value down to 1.4 W/m²K depending on the frame/vent combination and the glass thickness.									
COMFORT											
	Acoustic performance windows[2] EN ISO 140-3; EN ISO 717-1	Rw(C;Ctr) = 45 (-1;-4) dB, Hidden Vent: Rw(C;Ctr) = 49 (-1;-5) dB, depending on glazing and opening type									
	Acoustic performance doors[2] EN ISO 140-3; EN ISO 717-1	Rw(C;Ctr) = 43 (-1;-4) dB, depending on glazing and opening type									
	Air tightness windows & doors, max. test pressure[3] EN 1026; EN 12207	1 (150 Pa)			2 (300 Pa)		3 (600 Pa)		4 (600 Pa)		
	Water tightness windows[4] EN 1027; EN 12208	1A (0 Pa)	2A (50 Pa)	3A (100 Pa)	4A (150 Pa)	5A (200 Pa)	6A (250 Pa)	7A (300 Pa)	8A (450 Pa)	9A (600 Pa)	E1200 (1200 Pa)
	Water tightness doors[4] EN 1027; EN 12208	1A (0 Pa)	2A (50 Pa)	3A (100 Pa)	4A (150 Pa)	5A (200 Pa)	6A (250 Pa)	7A (300 Pa)	8A (450 Pa)	9A (600 Pa)	E1200 (1200 Pa)
	Wind load resistance windows, max. test pressure[5] EN 12211; EN 12210	1 (400 Pa)		2 (800 Pa)		3 (1200 Pa)	4 (1600 Pa)		5 (2000 Pa)	Exxx (> 2000 Pa)	
	Wind load resistance windows to frame deflection[5] EN 12211; EN 12210	A (≤ 1/150)			B (≤ 1/200)			C (≤ 1/300)			
	Wind load resistance doors, max. test pressure[5] EN 12211; EN 12210	1 (400 Pa)		2 (800 Pa)		3 (1200 Pa)	4 (1600 Pa)		5 (2000 Pa)	Exxx (> 2000 Pa)	
	Wind load resistance doors to frame deflection[5] EN 12211; EN 12210	A (≤ 1/150)			B (≤ 1/200)			C (≤ 1/300)			
SAFETY											
	Burglar Resistance[6] EN 1627 - 1630	RC 1			RC 2			RC 3			

This table shows possible classes and values of performances. The values indicated in orange are the ones relevant to this system.

(1) The Uf-value measures the heat flow. The lower the Uf-value, the better the thermal insulation of the frame.
(2) The sound reduction index (Rw) measures the capacity of the sound reduction performance of the frame.
(3) The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.

(4) The water tightness test involves applying a uniform water spray at increasing air pressure until water penetrates the window.
(5) The wind load resistance is a measure of the profile's structural strength and is tested by applying increasing levels of air pressure to simulate the wind force. There are up to five levels of wind resistance (1 to 5) and three deflection classes (A,B,C). The higher the number, the better the performance.
(6) The burglar resistance is tested by statistical and dynamic loads, as well as by simulated attempts to break in using specified tools.

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06/2019 - 0H0.11C2.00 - Publisher Responsible at Law: Reynaers Aluminium NV, Oude Liersebaan 266, B-2570 Duffel

SLIMLINE 38



TECHNICAL CHARACTERISTICS

Design variants		CLASSIC	CUBIC	FERRO
Min. visible width inward opening window	Frame	33.5 mm	33.5 mm	33.5 mm
	Vent	23 mm	22 mm	21.5 mm
Min. visible width outward opening window	Frame	29 mm	-	18.5 mm
	Vent	60.5 mm	-	60.5 mm
Min. visible width inward opening window-door	Frame	33.5 mm	33.5 mm	59.5 mm
	Vent	52.5 mm	52.5 mm	52.5 mm
Min. visible width outward opening window-door	Frame	29 mm	-	18.5 mm
	Vent	82 mm	-	82 mm
Min. visible width T-profile		48 mm	48 mm	48 mm
Overall system depth window	Frame	99 mm	76 mm	76 mm
	Vent	86 mm	75 mm	72 mm
Rebate height		13.5 mm	13.5 mm	13.5 mm
Glass thickness		up to 55 mm	up to 55 mm	up to 55 mm
Glazing method		dry glazing with EPDM or neutral silicones		
Thermal insulation		omega-shaped fibreglass reinforced polyamide strips (frame 40 mm - vent 32 mm)		
High Insulation variant (HI)		available	available	available

PERFORMANCES

	ENERGY										
	Thermal Insulation [1] EN ISO 10077-2	Uf-value down to 1.7 W/m²K depending on the frame/vent combination and the glass thickness. Uw of less than 1.4 W/m²K for a standard window section[2]									
	COMFORT										
	Acoustic performance[3] EN ISO 140-3; EN ISO 717-1	$R_w(C;C_{tr})$ = 38 (-1; -4) dB / 45 (-1; -5) dB, depending on glazing type									
	Air tightness, max. test pressure[4] EN 1026; EN 12207	1 (150 Pa)		2 (300 Pa)			3 (600 Pa)			4 (600 Pa)	
	Water tightness[5] EN 1027; EN 12208	1A (0 Pa)	2A (50 Pa)	3A (100 Pa)	4A (150 Pa)	5A (200 Pa)	6A (250 Pa)	7A (300 Pa)	8A (450 Pa)	9A (600 Pa)	E (1200 Pa)
	Wind load resistance, max. test pressure [6] EN 12211; EN 12210	1 (400 Pa)		2 (800 Pa)		3 (1200 Pa)	4 (1600 Pa)		5 (2000 Pa)		Exxx (> 2000 Pa)
	Wind load resistance to frame deflection[6] EN 12211; EN 12210	A (≤ 1/150)			B (≤ 1/200)			C (≤ 1/300)			
	SAFETY										
	Burglar resistance[7] EN 1628-EN 1630; EN 1627	RC 1			RC 2			RC 3			

This table shows possible classes and values of performances. The values indicated in red are the ones relevant to this system.

(1) The Uf-value measures the heat flow. The lower the Uf-value, the better the thermal insulation of the frame.
(2) Window dimension of 1.23m x 1.48m, with glass of 1.1 W/m²K.
(3) The sound reduction index (Rw) measures the capacity of the sound reduction performance of the frame.
(4) The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.
(5) The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.
(6) The wind load resistance is a measure of the profile's structural strength and is tested by applying increasing levels of air pressure to simulate the wind force. There are up to five levels of wind resistance (1 to 5) and three deflection classes (A,B,C). The higher the number, the better the performance.
(7) The burglar resistance is tested by static and dynamic loads, as well as by simulated attempts to break in using specified tools. This variant requires specific burglar resistance accessories.

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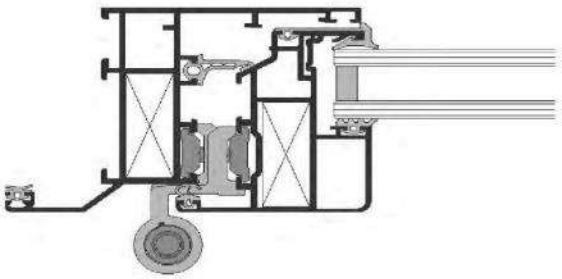
10/2019 - 0H0.10C2.00 - Publisher Responsible at Law: E. Fonteyne, Oude Liersebaan 266, B-2570 Duffel

ROCK 60



Technical Characterestics

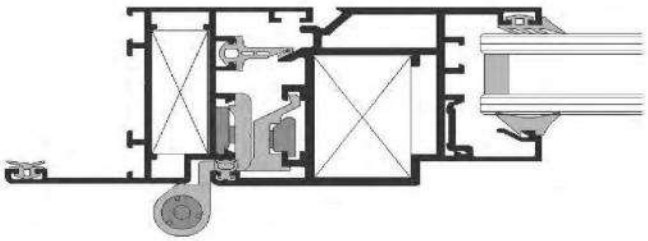
Frame	Depth	61 mm-to-74 mm
	Height	62 mm-to-130 mm
Sash	Depth	39 mm-to-71 mm
	Height	57 mm-to-87 mm
Max Glass Thickness	Up to 44 mm	
Max Sash Weight	Up to 180 kg	
Sealing Type	EPDM gasket with central gasket	

Complies with European norm hEN 1435-1

Air Permability	(Class 4) up to 600 pa
Water Tightness	(Class E900) up to 900 pa
Resistance to wind load	(Class C4) up to 1600 pa

- Used for doors and windows with large openings to obtain a wide view.
- Concealed opening frame that makes fixed and hinged panels have the same appearance from the outside (optional).
- All accessories can be adjusted and fixed with set screws.

SONATA 45



Technical Characterestics

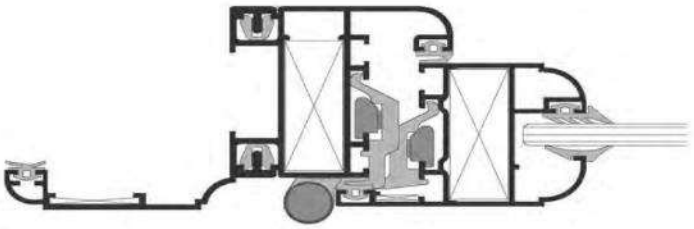
Frame	Depth	45 mm-to-120 mm
	Height	46 mm-to-116 mm
Sash	Depth	45 mm-to-52 mm
	Height	64 mm-to-100 mm
Max Glass Thickness	Up to 44 mm	
Max Sash Weight	Up to 110 kg	
Sealing Type	EPDM gasket with central gasket	

Complies with European norm hEN 1435-1

Air Permability	(Class 4) up to 600 pa
Water Tightness	(Class E900) up to 900 pa
Resistance to wind load	(Class C4) up to 1600 pa

- Used for doors and windows with medium to large openings.
- A full range of accessories available for the various types of door and window openings.
- Wide variety of frames and sashes.
- Wide range of locking systems and multi locking points.
- All accessories can be adjusted and fixed with set screws.

SAMBA 40



Technical Characterestics

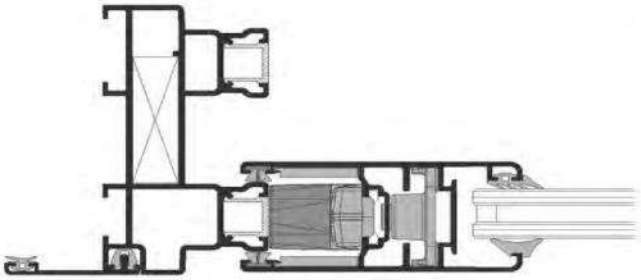
Frame	Depth	40 mm-to-50 mm
	Height	47 mm-to-101 mm
Sash	Depth	40 mm
	Height	67 mm-to-83 mm
Max Glass Thickness	Up to 24 mm	
Max Sash Weight	Up to 80 kg	
Sealing Type	EPDM gasket	

Complies with European norm hEN 1435-1

Air Permability	(Class 4) up to 600 pa
Water Tightness	(Class E1050) up to 1050 pa
Resistance to wind load	(Class C4) up to 1600 pa

- Ideal solution for small to medium openings and economic resdential buildings.
- Same profile can be used as frame or sash (optional).
- All accessories can be adjusted and fixed with set screws.

TENDU 120



Technical Characterestics

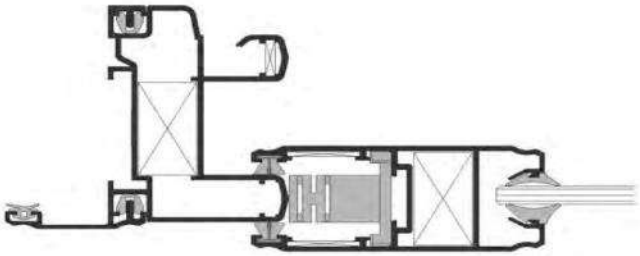
Frame	Depth	98 mm-to-134 mm
	Height	52 mm
Sash	Depth	40 mm
	Height	86 mm
Max Glass Thickness	Up to 24 mm	
Max Sash Weight	Up to 200 kg	
Sealing Type	Perimetrical, with two rows of high-denisty brushes EPDM gaskets for tilt and slide.	

Complies with European norm hEN 1435-1

Air Permability	(Class 3) up to 600 pa
Water Tightness	(Class 6A) up to 250 pa
Resistance to wind load	(Class B3) up to 1200 pa

- Used for doors and windows with large openings to obtain a wide view.
- Wide range of locking systems with multi locking points and anti-lift blocks.
- Compatible with GOS lift & slide accessories.
- All accessories can be adjusted and fixed with screws.

JUMBO 100



Technical Characterestics

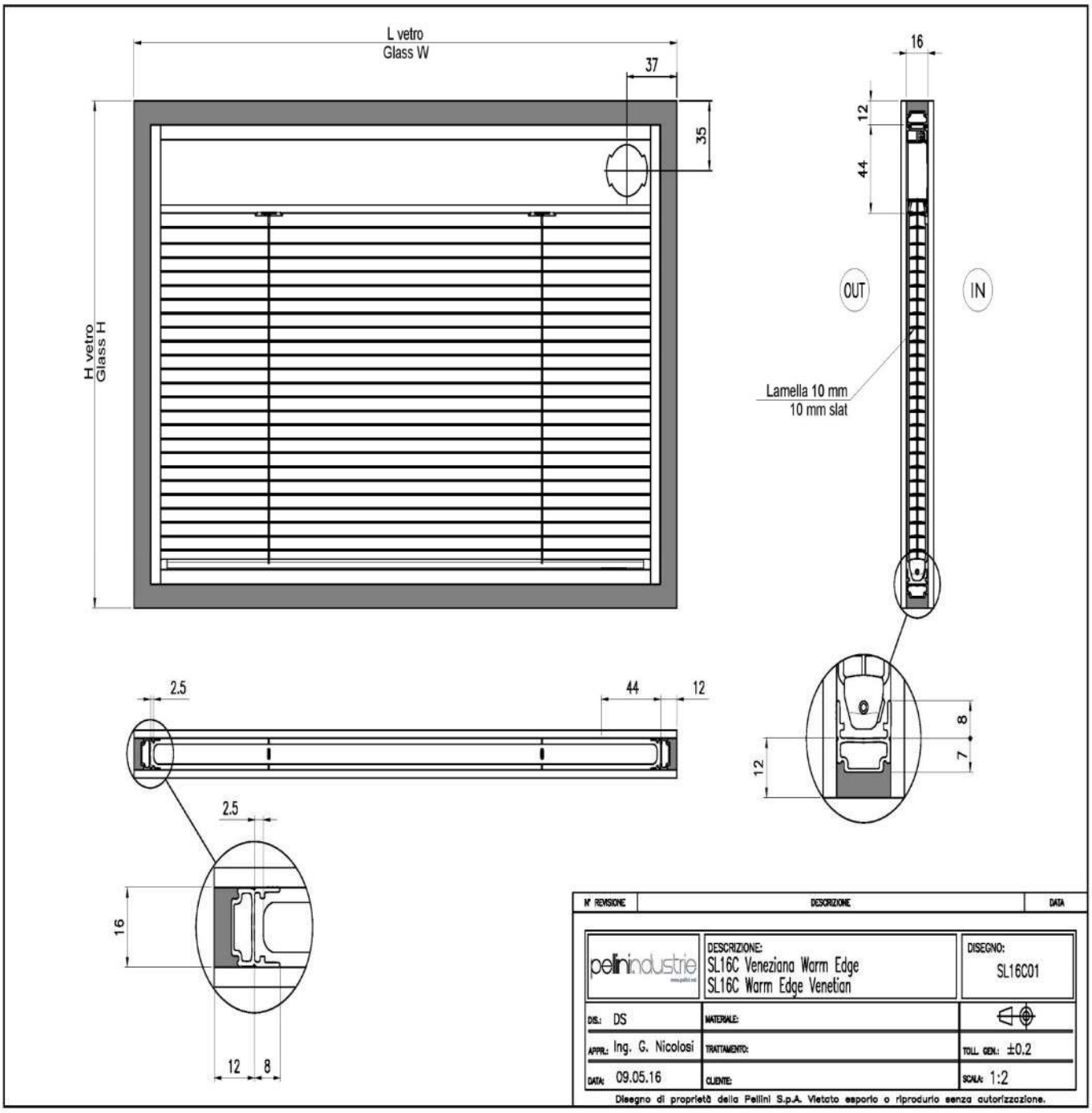
Frame	Depth	74 mm-to-134 mm
	Height	53 mm-to-106 mm
Sash	Depth	36 mm
	Height	86 mm
Max Glass Thickness	Up to 24 mm	
Max Sash Weight	Up to 170 kg	
Sealing Type	Perimetrical, with two rows of high-density brushes	

Complies with European norm hEN 1435-1

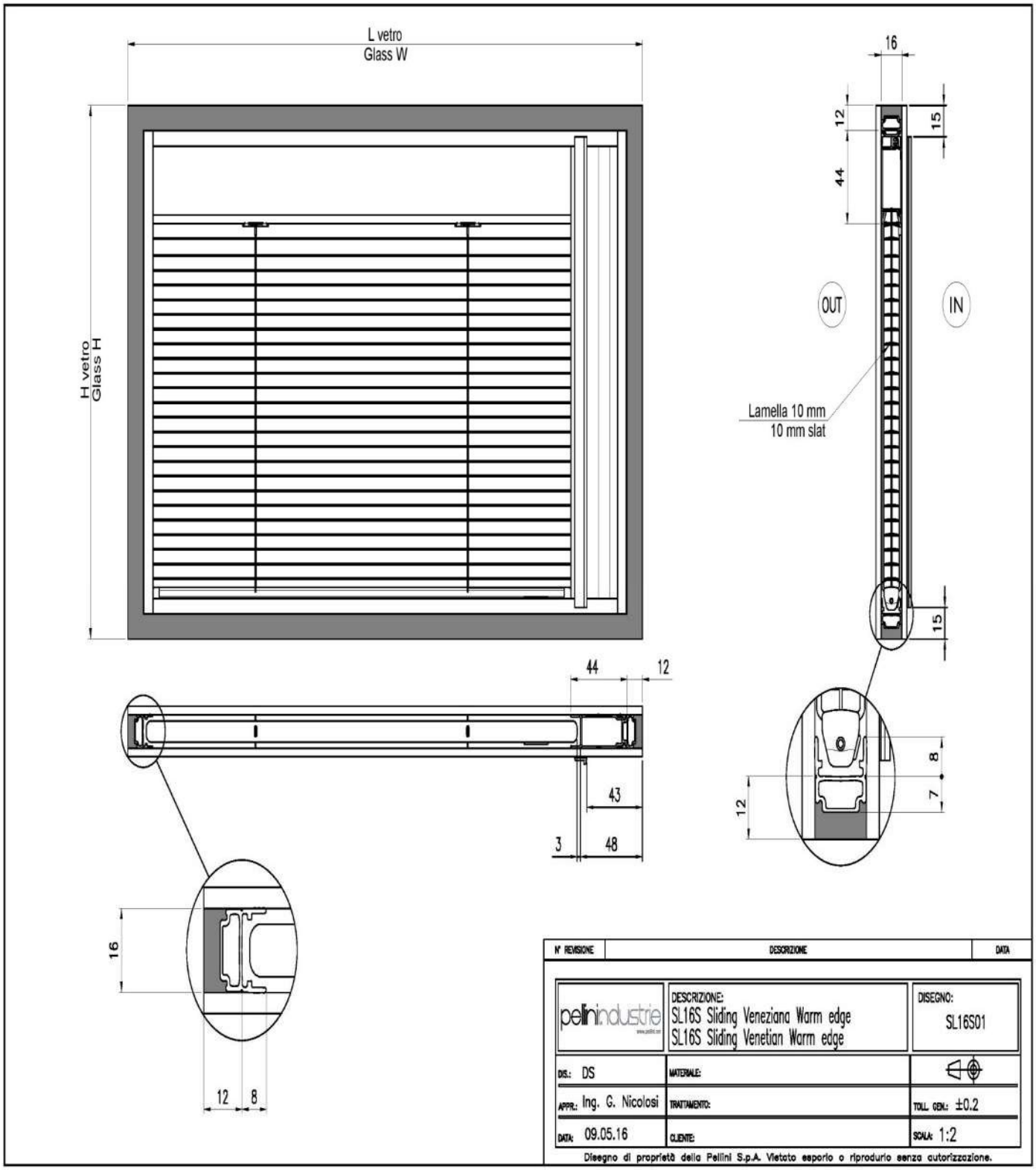
Air Permability	(Class 3) up to 600 pa
Water Tightness	(Class 8A) up to 450 pa
Resistance to wind load	(Class B2) up to 800 pa

- Used for doors and windows with large openings.
- Wide variety of frames and sashes.
- Wide range of locking systems and multi locking points and anti-lift blocks.
- All accessories can be adjusted and fixed with set screws.

ScreenLine®



Business Partners


L vetro
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N° REVISIONE
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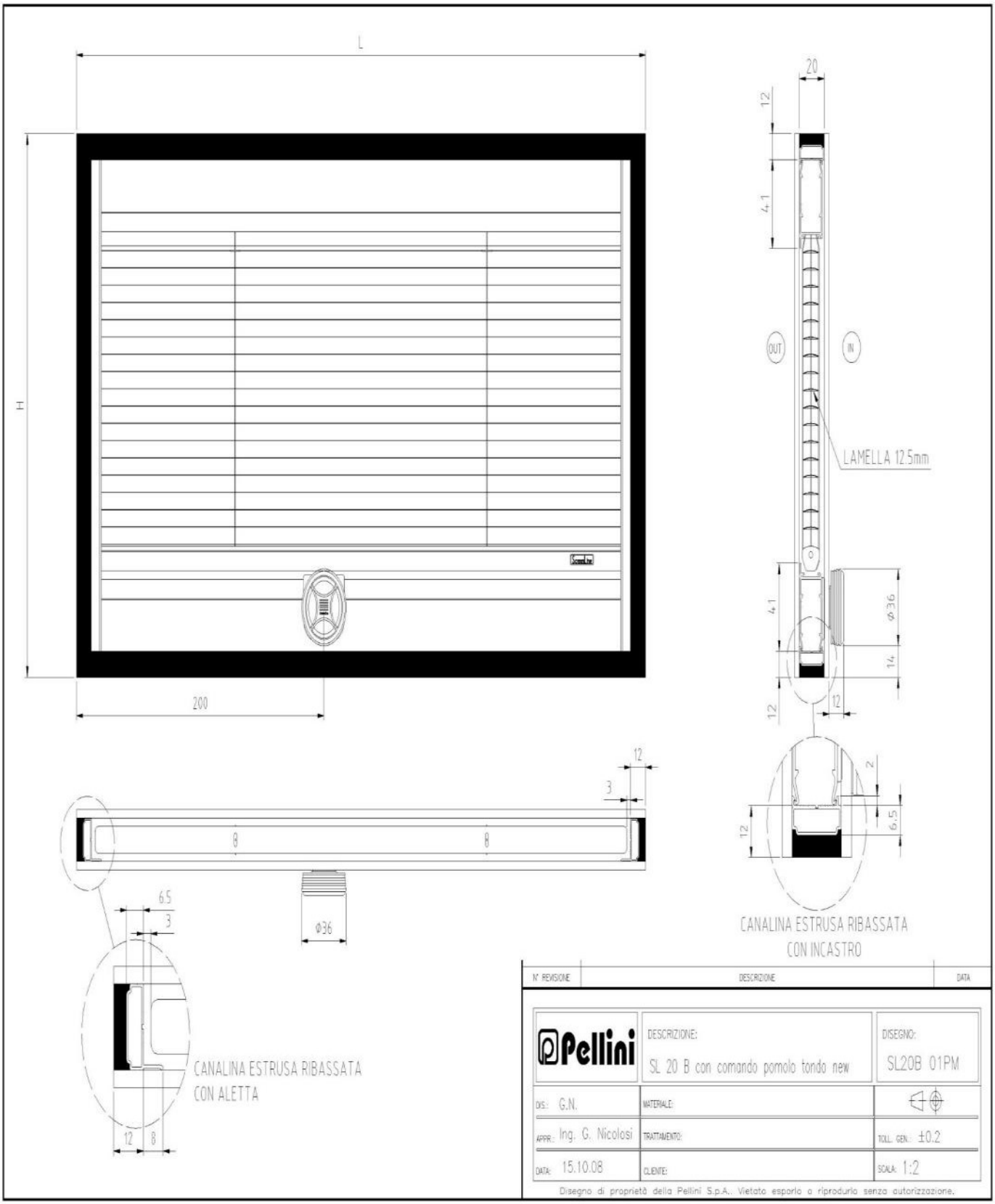
DATA
pellini industrie
DESCRIZIONE:
SL16S Sliding Veneziana Warm edge
SL16S Sliding Venetian Warm edge
DISEGNO:
SL16S01
DIS.: DS
MATERIALE:
APPR.: Ing. G. Nicolosi
TRATTAMENTO:
TOLL. GEN.: ±0.2
DATA: 09.05.16
CLIENTE:
SCALA: 1:2
Disegno di proprietà della Pellini S.p.A. Vietato esporlo o riprodurlo senza autorizzazione.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CON ALETTA
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N° REVISIONE
DESCRIZIONE
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Pellini
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SL 20 B con comando pomolo tondo new
DISEGNO:
SL20B 01PM
DIS.: G.N.
MATERIALE:
APPR.: Ing. G. Nicolosi
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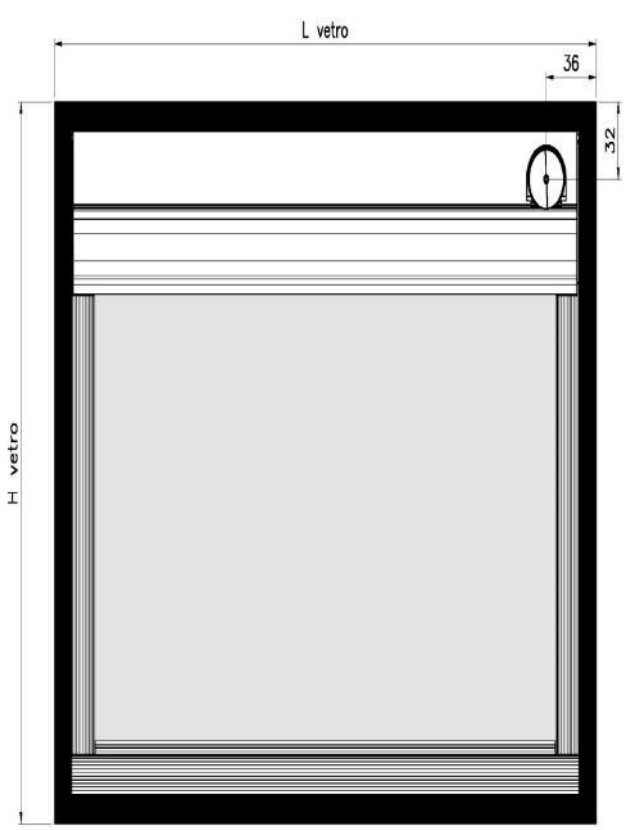

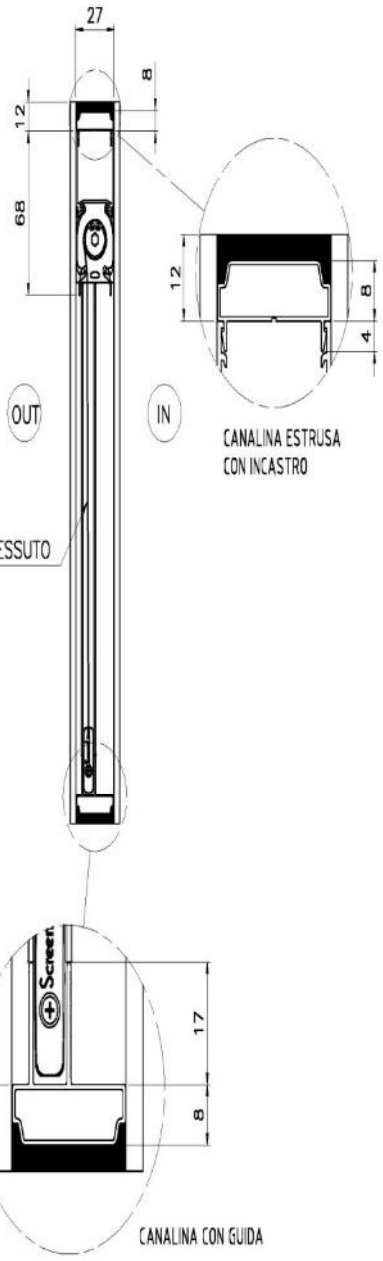

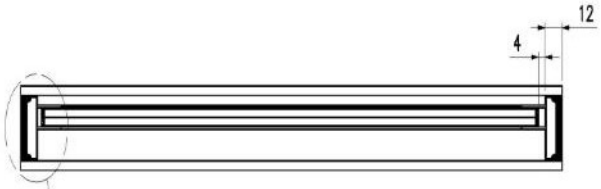

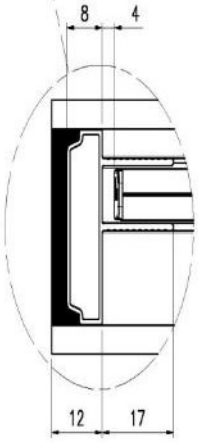

CANALINA CON GUIDA

CANALINA CON GUIDA

N° REVISIONE	DESCRIZIONE	DATA

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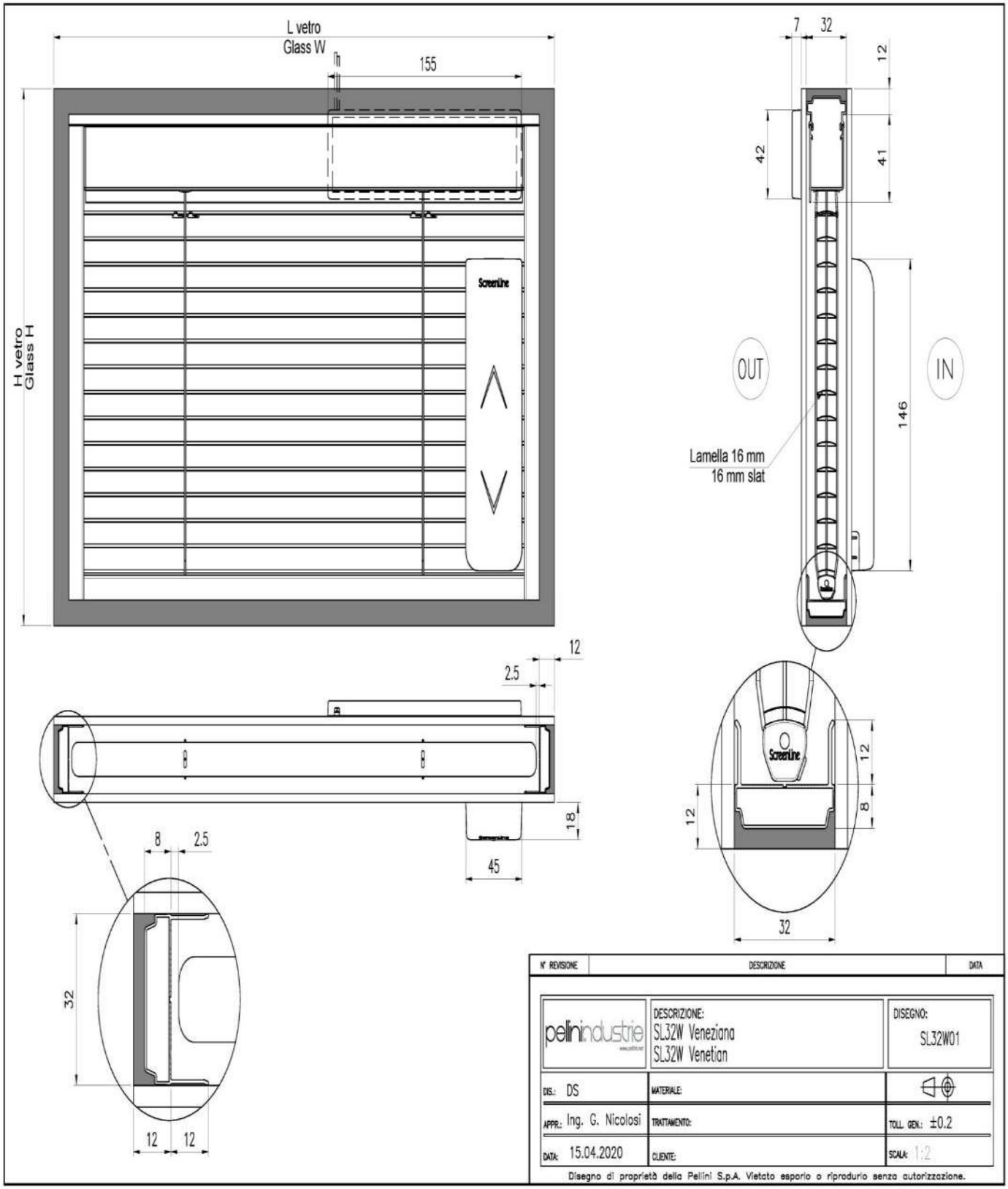
DIS.: G.N.	MATERIALE:	
APPR.: Ing. G. Nicolosi	TRATTAMENTO:	TOLL. GEN.: ±0.2
DATA: 11.04.06	CLIENTE:	SCALA: 1:2.5


L vetro
Glass W
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H vetro
Glass H
ScreenLine
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OUT
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Lamella 16 mm
16 mm slat
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8
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18
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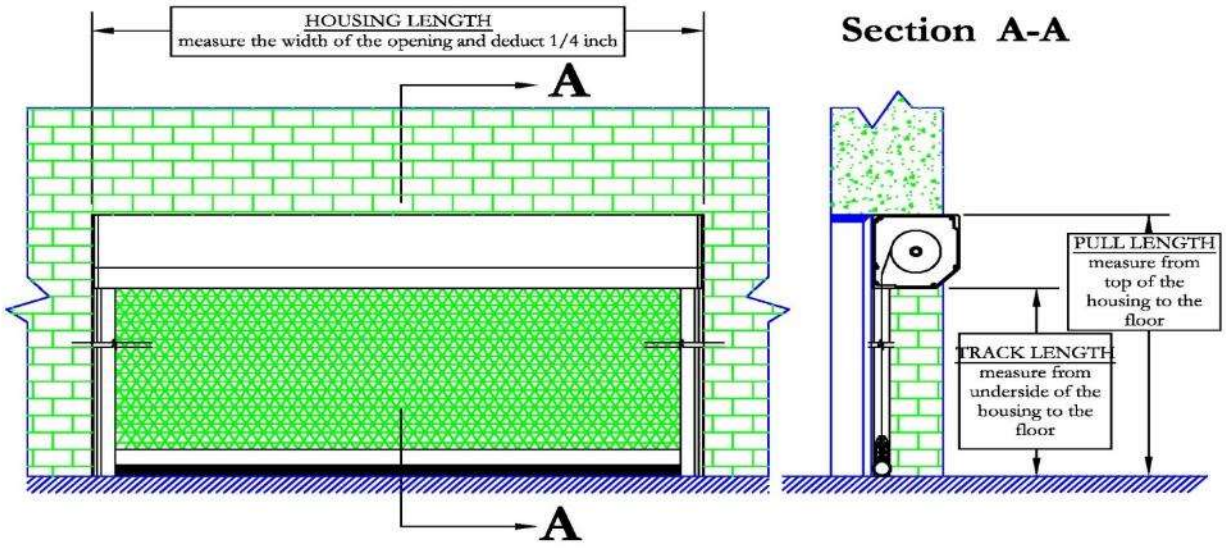
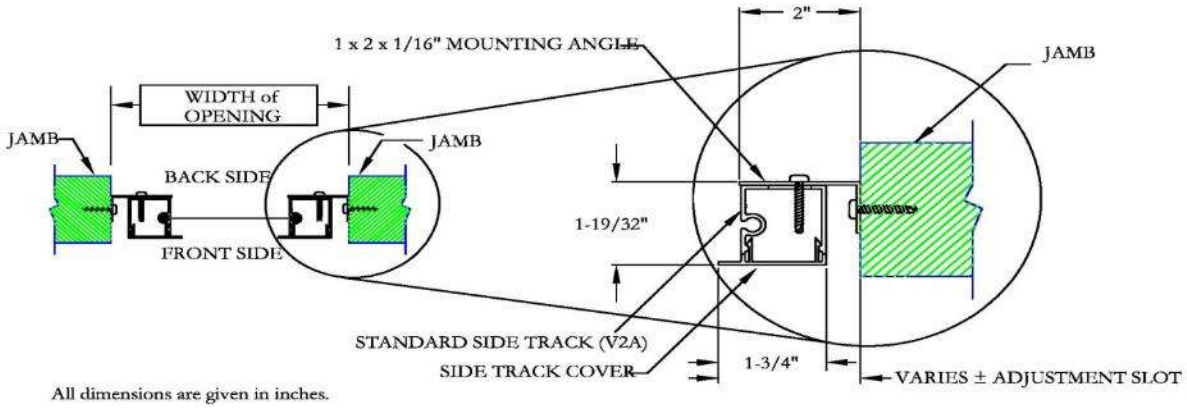
8
2.5
32
12
12
ScreenLine
12
12
8
32
N° REVISIONE
DESCRIZIONE
DATA
pellini industrie
DESCRIZIONE:
SL32W Veneziana
SL32W Venetian
DISEGNO:
SL32W01
DIS.: DS
MATERIALE:
APPR.: Ing. G. Nicolosi
TRATTAMENTO:
TOLL. GEN.: ±0.2
DATA: 15.04.2020
CLIENTE:
SCALA: 1:2
Disegno di proprietà della Pellini S.p.A. Vietato esporlo o riprodurlo senza autorizzazione.

PHANTOM SCREENS
experience the moment

Motorized Retractable Wall Screen
"Inside Jamb" Installation
System With Standard Side Track (V2A)
Inside Jamb Above Header - (IJUH)

FOR ILLUSTRATION PURPOSES ONLY - NOT DRAWN TO SCALE





All dimensions are given in inches.

Creator:	Date:	Revision:
NDR	10/04/2004	Rev: 01
Drawing Title: PSEXECINSTALLIJUH01(C)		
© 2010 Phantom Mfg. Intl Ltd.		Scale: NTS

1. Title change	03/01/18
Description of Revision	

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OUTSWING DOOR WITH TRIM SILL

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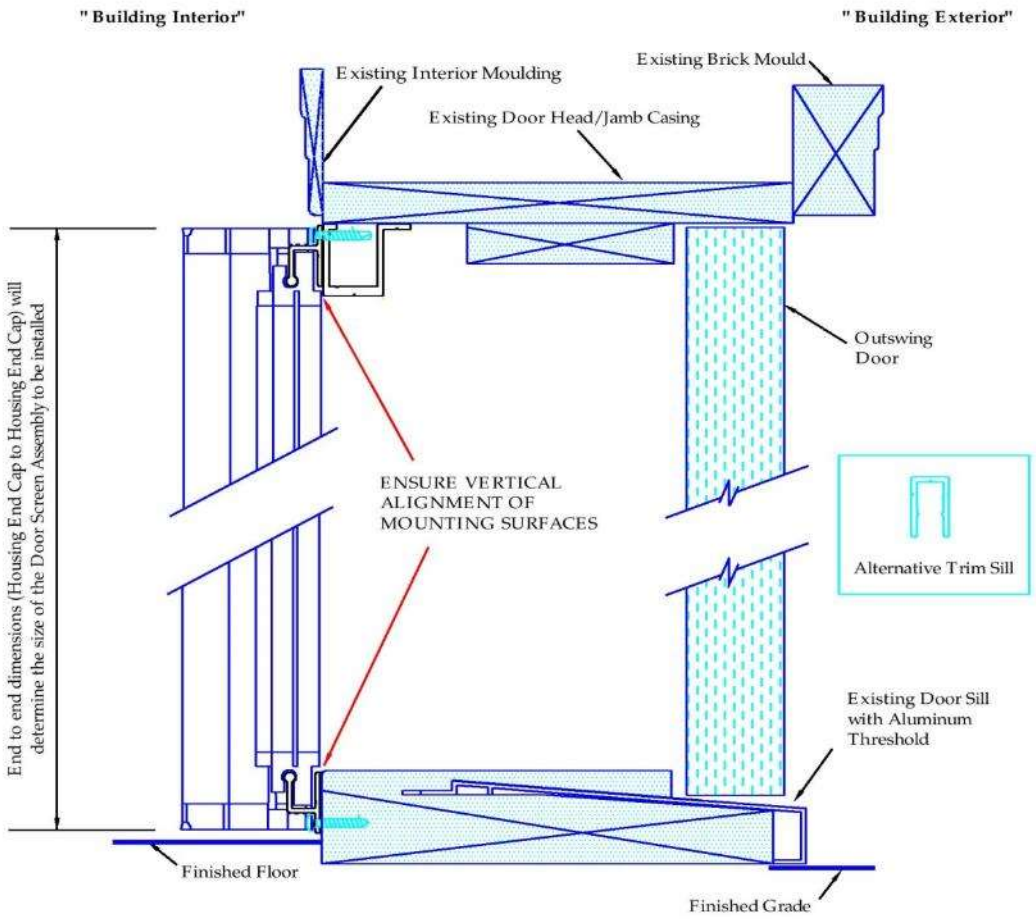
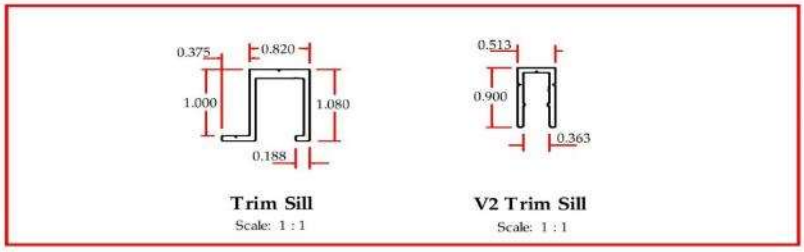




Creator:	Date:	Revision:
NDR	03/14/2006	Rev:
Drawing Title: PSPHANINSTOUTSWING-TRIM01		
© 2010 Phantom Mfg. Intl Ltd.		Scale: As Shown

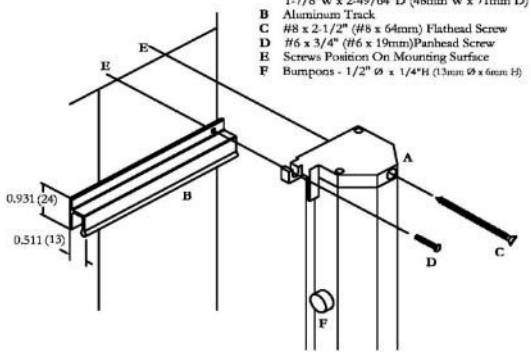
Retractable Door Design Specifications
c/w Latching Handle
External Assembled View

For Illustration Purposes Only - Not Drawn to Scale

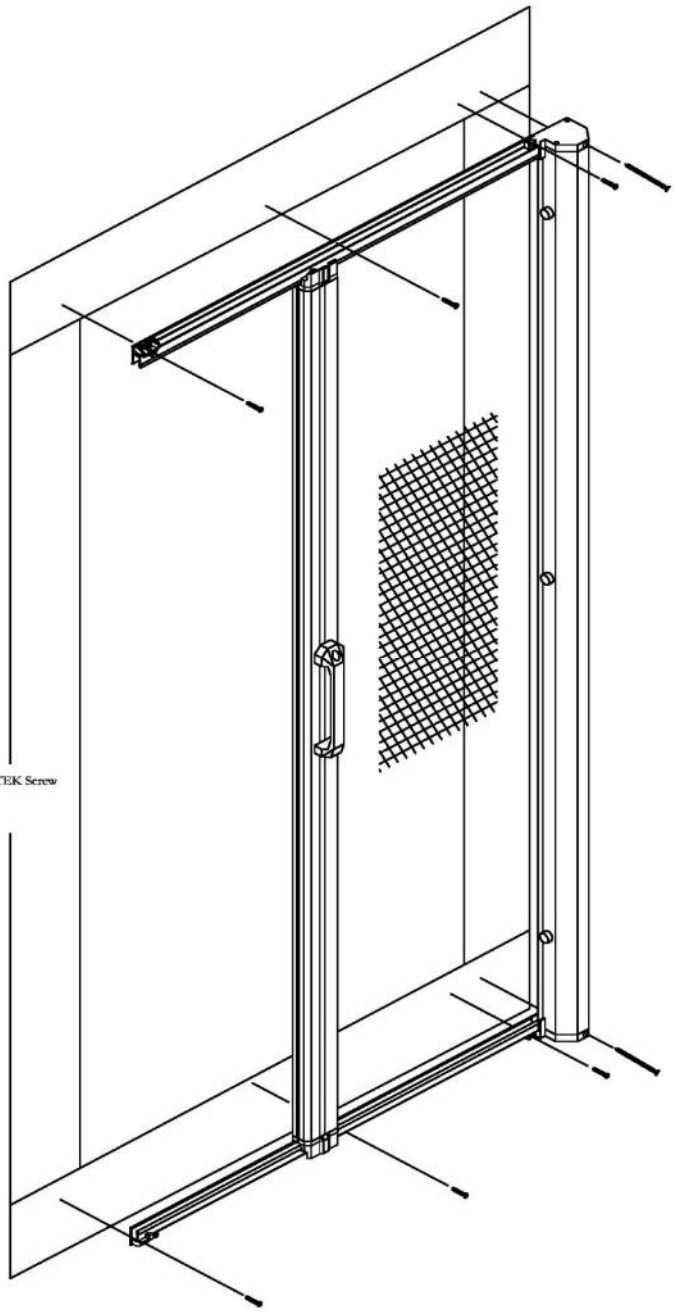
All Dimensions Are Shown In Inches and Millimeters In Brackets

Parts Spec

- **A** Aluminum Housing c/w Nylon End Cap 1-7/8"W x 2-49/64"D (48mm W x 71mm D)
- **B** Aluminum Track
- **C** #8 x 2-1/2" (#8 x 64mm) Flathead Screw
- **D** #6 x 3/4" (#6 x 19mm)Panhead Screw
- **E** Screws Position On Mounting Surface
- **F** Bumpons - 1/2" Ø x 1/4"H (13mm Ø x 6mm H)

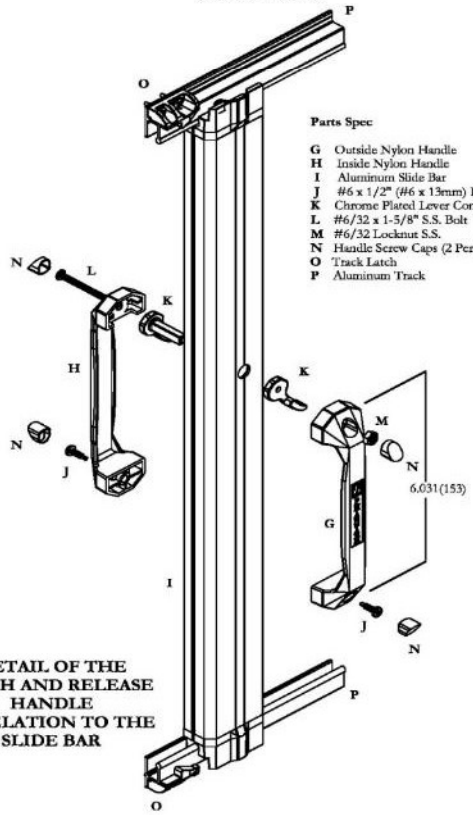


DETAIL OF TRACK POSITION IN RELATION TO THE HOUSING AND HOUSING END CAP
(HEAD VIEW)



Parts Spec

- **G** Outside Nylon Handle
- **H** Inside Nylon Handle
- **I** Aluminum Slide Bar
- **J** #6 x 1/2" (#6 x 13mm) Panhead TEK Screw
- **K** Chrome Plated Lever Components
- **L** #6/32 x 1-5/8" S.S. Bolt
- **M** #6/32 Locknut S.S.
- **N** Handle Screw Caps (2 Per Handle)
- **O** Track Latch
- **P** Aluminum Track



DETAIL OF THE LATCH AND RELEASE HANDLE IN RELATION TO THE SLIDE BAR

Creator:	Date:	Revision:
NDR	03/08/16	Rev: 02

Drawing Title: **PSLEGACYPRODDESIGNSPEC01**

Scale: NTS

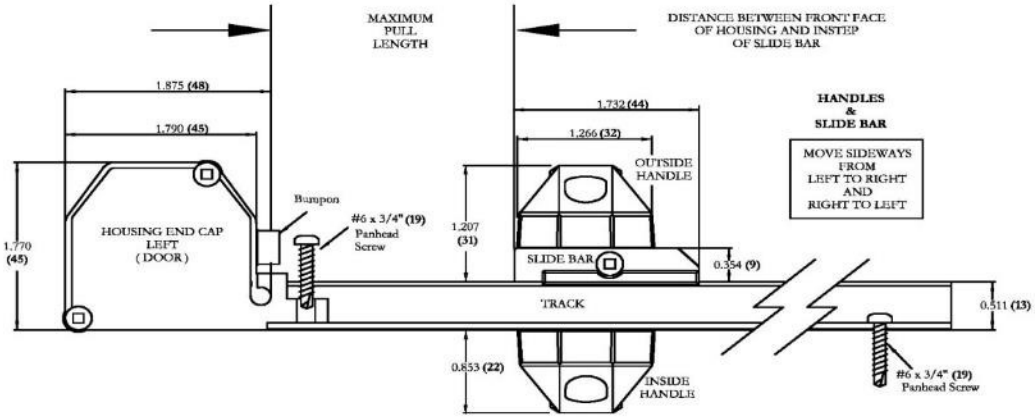
Description of Revision	
2. Revised Title	02/27/18
1. Revised Lever Materials	03/08/16

Business Partners

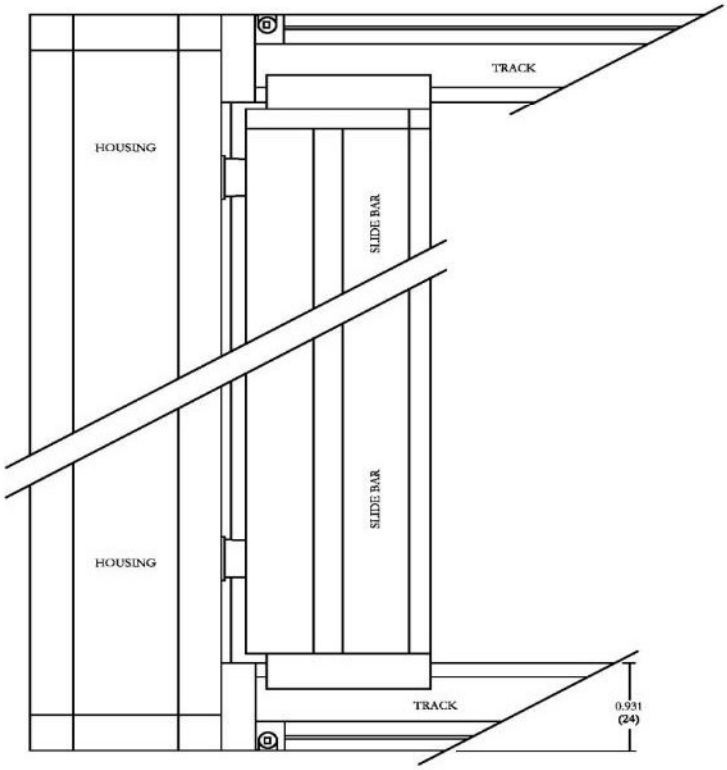
Retractable Door Design Specifications c/w Magnet Latch System

Detail Views

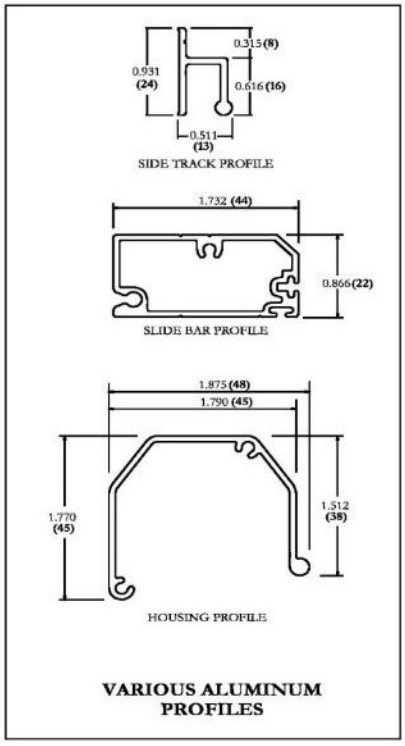
All Dimensions Are Shown In Inches Millimeters In Brackets



BOTTOM VIEW



FRONT VIEW



VARIOUS ALUMINUM PROFILES

Creator:	Date:	Revision:
NDR	01/24/12	Rev: 01
Drawing Title: PSPRODDESIGNSPEC02		
1. Revised title name 02/26/18 Description of Revision	© 2012 Phantom Mfg. Intl Ltd.	Scale: N.T.S.

Retractable Door Design Specifications c/w Magnet Latch System

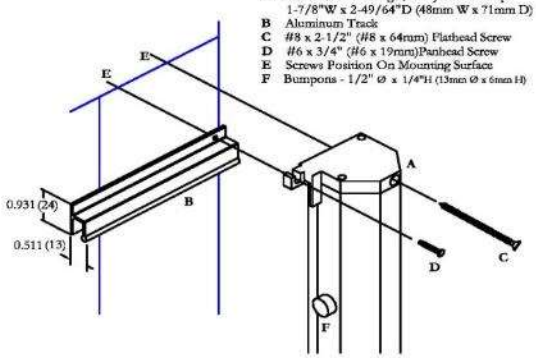
External Assembled View

For Illustration Purposes Only - Not Drawn to Scale

All Dimensions Are Shown In Inches and Millimeters In Brackets

Parts Spec

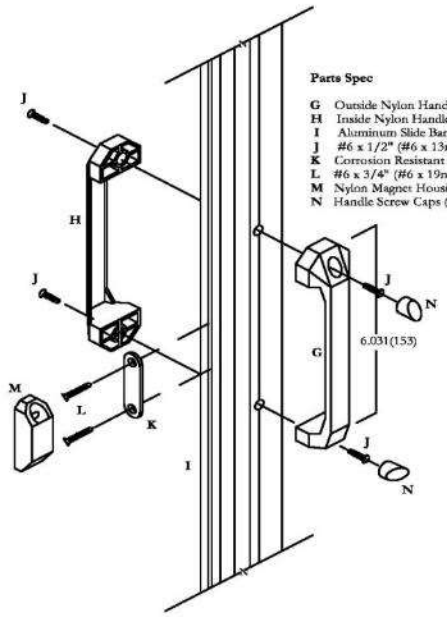
- **A** Aluminum Housing c/w Nylon End Cap 1-7/8"W x 2-49/64"D (48mm W x 71mm D)
- **B** Aluminum Track
- **C** #8 x 2-1/2" (#8 x 64mm) Flathead Screw
- **D** #6 x 3/4" (#6 x 19mm)Panhead Screw
- **E** Screws Position On Mounting Surface
- **F** Bumpons - 1/2" Ø x 1/4"H (13mm Ø x 6mm H)



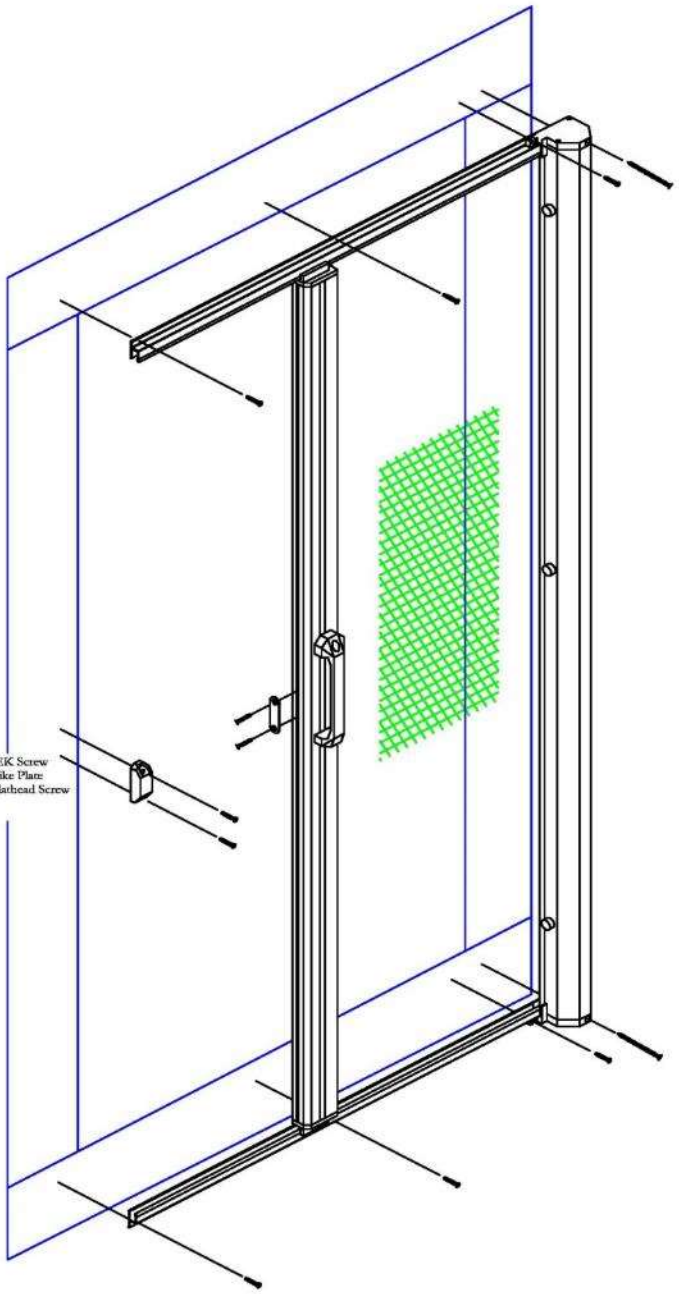
DETAIL OF TRACK POSITION IN RELATION TO THE HOUSING AND HOUSING END CAP
(HEAD VIEW)

Parts Spec

- **G** Outside Nylon Handle V2
- **H** Inside Nylon Handle V2
- **I** Aluminum Slide Bar
- **J** #6 x 1/2" (#6 x 13mm) Panhead TEK Screw
- **K** Corrosion Resistant Steel Magnet Strike Plate
- **L** #6 x 3/4" (#6 x 19mm)(#5 Head) Flathead Screw
- **M** Nylon Magnet Housing
- **N** Handle Screw Caps (2 Per Handle)



DETAIL OF HANDLE AND STRIKE PLATE POSITION IN RELATION TO THE SLIDE BAR



Creator:	Date:	Revision:
NDR	01/24/12	Rev: 01
Drawing Title: PSPROPRODDESIGNSPEC01		
1. Revised title name 02/26/18	© 2012 Phantom Mfg. Intl Ltd.	Scale: NTS

Description of Revision

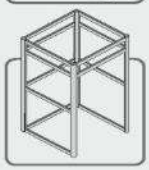
Technical Specifications

Hydraulic
- Complying with European 2006/42/EC Machinery Directive
- Machine roomless (MRL) hydraulic drive
- Direct telescopic suspension or roping version
- 1 or 2-piece ram
- Load up to 400 kg
- Stops: up to 7; Travel: 12 m
- Pit starting from 100 mm, headroom from 2250 mm
- Speed: 0.15 m/s (0.30 m/s max outside the European Community)
- Rated power: 2.2 kW

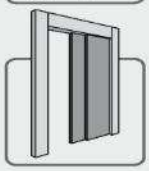
XL model
- Headroom: 2500 mm min
- Stops: up to 7; travel: 17 m
- Load: 450 kg
- Maximum car dimensions: 1200 x 1500 mm

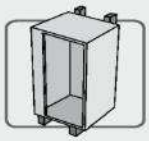
Electric gearless with counterweight
- Complying with European 2006/42/EC Machinery Directive
- Machine roomless (MRL)
- Gearless machine, with counterweight
- Load up to 400 kg
- Stops: 7; Travel: 20 m
- Pit: 200 mm; Headroom: 2500/2600 mm
- Speed: 0.15 m/s (0.30 m/s max outside the European Community)
- Rated power: 0.5 kW

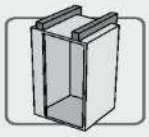

Masonry shaft
Net dimensions between finished walls


Metal shaft structure
Fixing of at least 3 uprights at pit, headroom and each floor level


Swing doors


Automatic sliding doors


Bottom cantilevered car sling

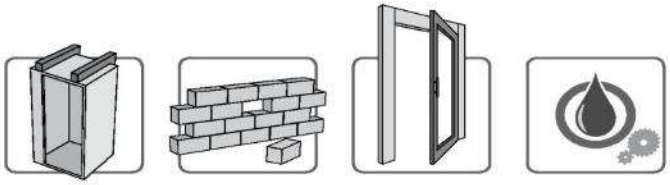

Top cantilevered car sling

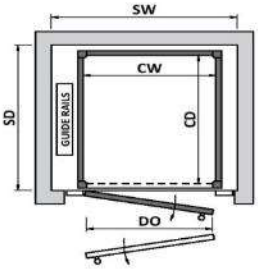

Hydraulic


Electric gearless with counterweight

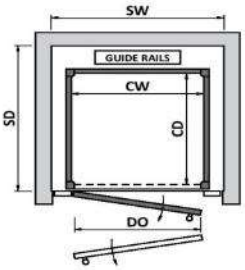
Business Partners

DomusLift® Aluminium





1C	1C/1	1C/2	1C/3	1C/4	1C/5	1C/6	1C/7	1C/8	1C/12
CW	830	830	830	1030	1030	1030	830	1130	1030
CD	830	1030	1300	1300	1030	830	1200	1400	1400
SW	1160	1160	1160	1360	1360	1360	1160	1460	1360
SD	950	1150	1450	1450	1150	950	1350	1550	1550
DO	750	750	750	950	950	950	750	900	950
kg max	300	300	340	400	340	340	300	400	400
max	3	4	4	5	4	4	4	5	5



1L	1L/1	1L/2	1L/3	1L/4	1L/5	1L/6	1L/7
CW	830	1030	1300	1300	1030	830	830
CD	830	830	830	1030	1030	1030	1200
SW	1030	1230	1530	1530	1230	1030	1030
SD	1106	1106	1106	1306	1306	1306	1476
DO	750	950	950	950	950	750	750
kg max	300	300	340	400	340	340	400
max	3	4	4	5	4	4	5

Disponibili cabine con dimensioni intermedie.

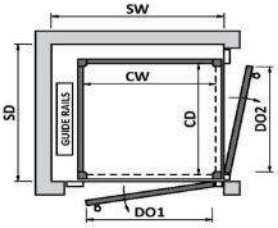
Cars with intermediate dimensions are available.

Cabines avec dimensions intermoyennes sont disponibles.

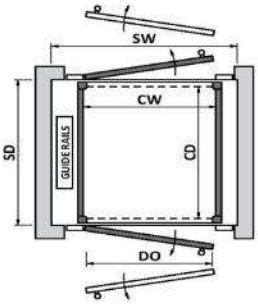
Zwischenmasse der Kabinen sind verfuegbar.

Cabinas disponibles con dimensiones medianas.

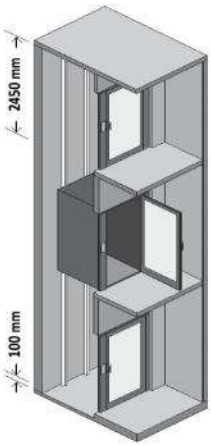
В наличии кабины с промежуточными размерами.



2A	2A/1	2A/2	2A/3	2A/4	2A/5	2A/6	2A/7	2A/9
CW	830	830	830	1030	1030	1030	1200	1200
CD	830	1030	1300	1300	1030	830	830	1200
SW	1106	1106	1106	1306	1306	1306	1476	1476
SD	975	1175	1445	1445	1175	975	975	1345
DO1	750	750	750	950	950	950	950	950
DO2	750	950	950	950	950	750	750	950
kg max	300	300	340	400	340	340	400	400
max	3	4	4	5	4	4	5	5



2P	2P/1	2P/2	2P/3	2P/4	2P/5	2P/6	2P/7	2P/8
CW	830	830	830	1030	1030	1030	830	1130
CD	830	1030	1300	1300	1030	830	1200	1400
SW	1160	1160	1160	1360	1360	1360	1160	1460
SD	920	1120	1390	1390	1120	920	1290	1490
DO	750	750	750	950	950	950	750	900
kg max	300	300	340	400	340	340	300	400
max	3	4	4	5	4	4	4	5



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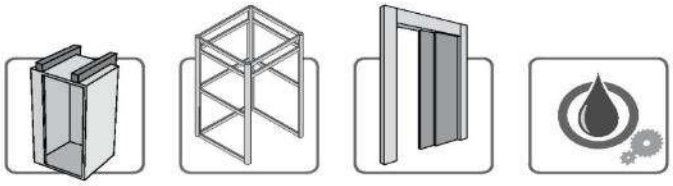
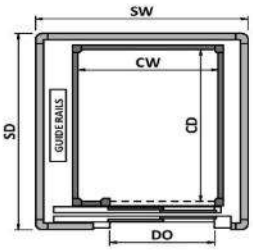
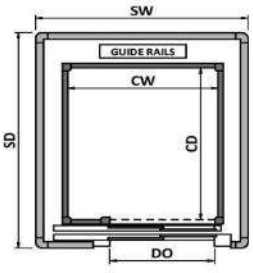
DomusLift Aluminium



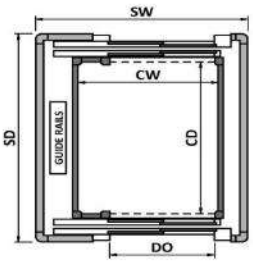


1C-2AT	1C/2	1C/3	1C/4	1C/5	1C/7	1C/10
CW	830	830	1030	1030	830	980
CD	1030	1300	1300	1030	1200	1200
SW	1340	1340	1520	1520	1340	1490
SD	1385	1685	1685	1385	1585	1585
DO	650	650	750	750	650	750
kg max	300	340	400	340	300	400
max	4	4	5	4	4	4

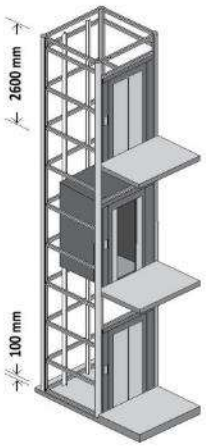
Disponibili cabine con dimensioni intermedie.
Cars with intermediate dimensions are available.
Cabines avec dimensions intermoyennes sont disponibles.
Zwischenmasse der Kabinen sind verfuegbar.
Cabinas disponibles con dimensiones medianas.
В наличии кабины с промежуточными размерами.



1L-2AT	1L/2	1L/3	1L/5
CW	1030	1300	1030
CD	830	830	1030
SW	1640	1640	1640
SD	1340	1340	1540
DO	850	850	850
kg max	300	340	340
max	4	4	4

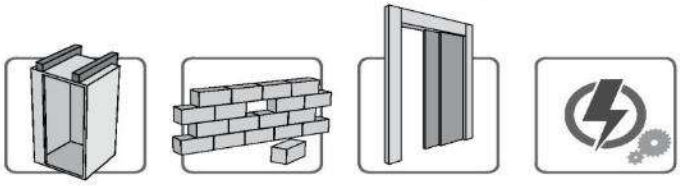


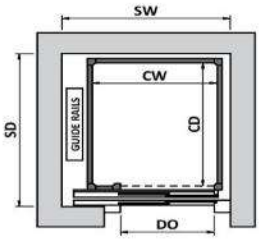
2P-2AT	2P/2	2P/3	2P/4	2P/5	2P/7
CW	830	830	1030	1030	830
CD	1030	1300	1300	1030	1200
SW	1340	1340	1520	1520	1340
SD	1472	1742	1742	1472	1642
DO	650	650	750	750	650
kg max	300	340	400	340	300
max	4	4	5	4	4



Business Partners

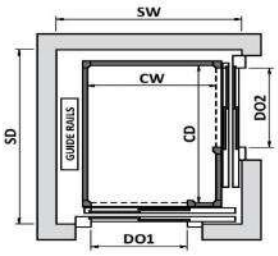
DomusLift Aluminium/Steel Gearless





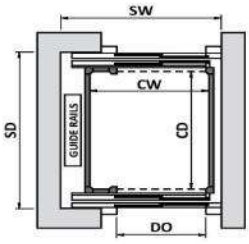
1C-2AT				
CW	830	980	1030	1130
CD*	1300	1200	1300	1400
SW	1310	1460	1510	1610
SD	1550	1450	1550	1650
DO	750	800	850	900
kg max	340	400	400	450
max				

* CD min = 1130



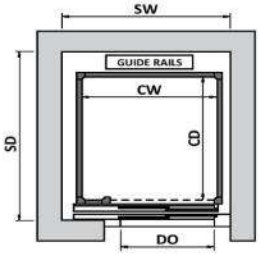
2A-2AT			
CW	1030	1030	1130
CD*	1200	1300	1400
SW	1596	1596	1696
SD	1466	1566	1666
DO1	750	750	850
DO2	800	850	850
kg max	400	400	450
max			

* CD min = 1200



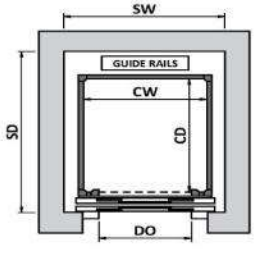
2P-2AT				
CW	830	980	1030	1130
CD*	1300	1200	1300	1400
SW	1310	1460	1510	1610
SD	1652	1552	1652	1752
DO	750	800	850	900
kg max	340	400	400	450
max				

* CD min = 1200



1L-2AT	
CW*	1300
CD	1130
SW	1535
SD	1696
DO	900
kg max	400
max	

* CW min = 1130



1L-4AO	
CW	1130
CD*	1130
SW	1350
SD	1696
DO	800
kg max	400
max	

* CW min = 1130

Versioni consigliate. Disponibili cabine con altre dimensioni.

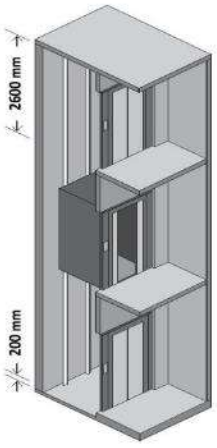
Suggested versions. Cars with other dimensions are also available.

Versions conseillées. Cabines avec autres dimensions sont disponibles.

Empfohlene Ausfuehrungen. Kabinen mit verschiedenen Massen sind verfuegbar.

Versiones aconsejadas. Cabinas disponibles con dimensiones distintas.

Варианты рекомендованные. В наличии кабины с разными размерами.



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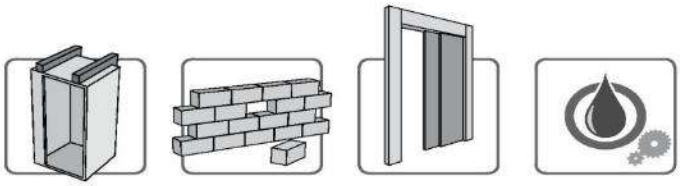
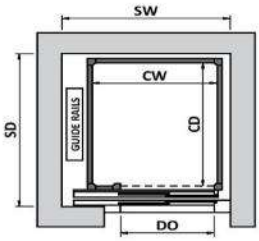
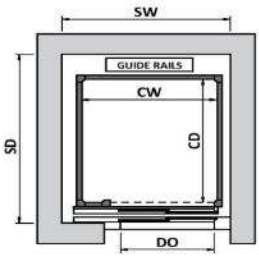
DomusLift® Aluminium



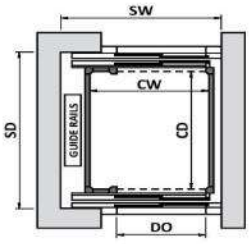


1C-2AT	1C/2	1C/3	1C/4	1C/5	1C/7	1C/10
CW	830	830	1030	1030	830	980
CD	1030	1300	1300	1030	1200	1200
SW	1160	1160	1350	1350	1160	1310
SD	1290	1590	1590	1290	1490	1490
DO	650	650	750	750	650	750
kg max	300	340	400	340	300	400
max	4	4	5	4	4	4

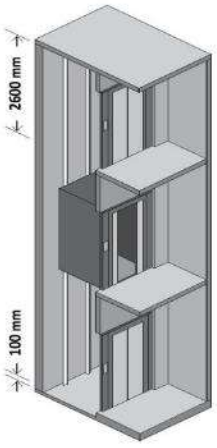
Disponibili cabine con dimensioni intermedie.
Cars with intermediate dimensions are available.
Cabines avec dimensions intermoyennes sont disponibles.
Zwischenmasse der Kabinen sind verfuegbar.
Cabinas disponibles con dimensiones medianas.
В наличии кабины с промежуточными размерами.



1L-2AT	1L/2	1L/3	1L/5
CW	1030	1300	1030
CD	830	830	1030
SW	1460	1460	1460
SD	1240	1240	1440
DO	850	850	850
kg max	300	340	340
max	4	4	4



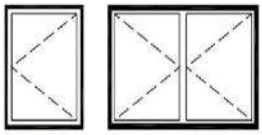
2P-2AT	2P/2	2P/3	2P/4	2P/5	2P/7
CW	830	830	1030	1030	830
CD	1030	1300	1300	1030	1200
SW	1160	1160	1350	1350	1170
SD	1382	1652	1652	1382	1552
DO	650	650	750	750	650
kg max	300	340	400	340	300
max	4	4	5	4	4

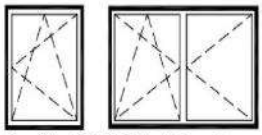


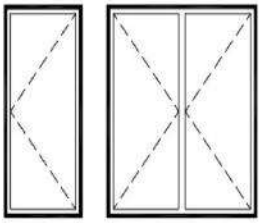
Ouverture Intérieure

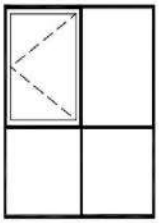

Châssis fixe


Fenêtre à soufflet


Fenêtre française 1 et 2 vantaux


Fenêtre OB/BO 1 et 2 vantaux

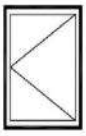

Porte-fenêtre 1 et 2 vantaux

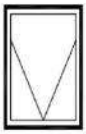

Ensemble menuisé fenêtre française

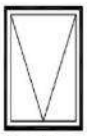

Fenêtre basculante

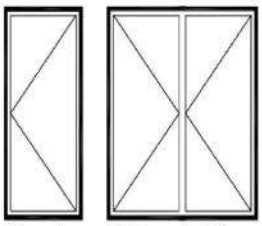

Fenêtre pivotante

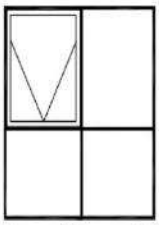
Ouverture Extérieure

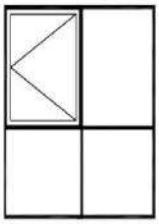

Fenêtre à l'anglaise 1 vantail


Fenêtre à l'italienne


Fenêtre à projection


Ouverture extérieure 1 et 2 vantaux


Ensemble menuisé fenêtre italienne

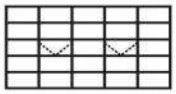

Ensemble menuisé fenêtre ouverture extérieure

TECHNAL

Géode Isolation renforcée serreur filant : mur-rideau, ouvrant caché à l'italienne (MX)

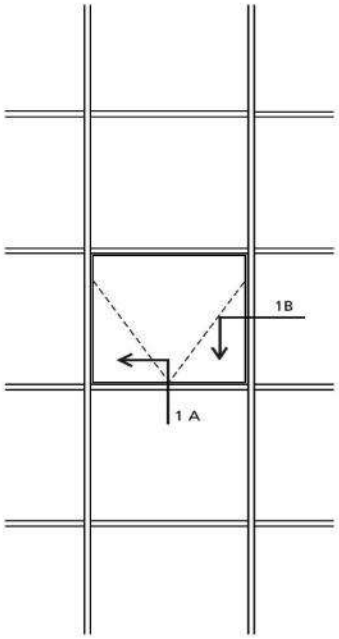
10/07 **01 - 1.24**

- Application :

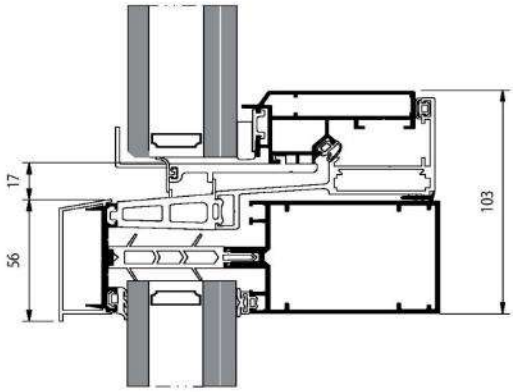


Intégration châssis à l'italienne

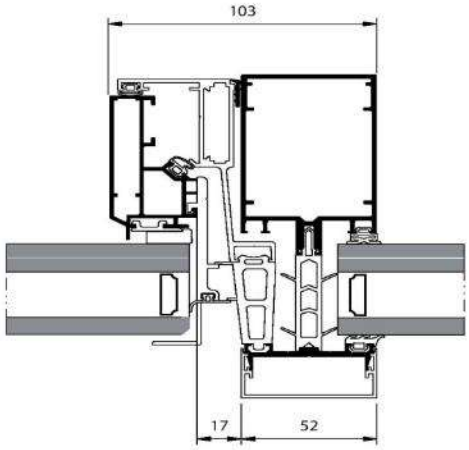
- Elévation (échelle 1/50) :



- Coupes (échelle 1/2) :



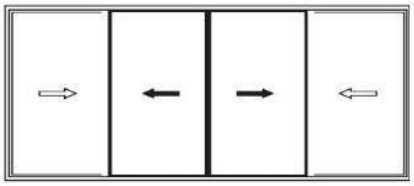
Coupe verticale 1 A



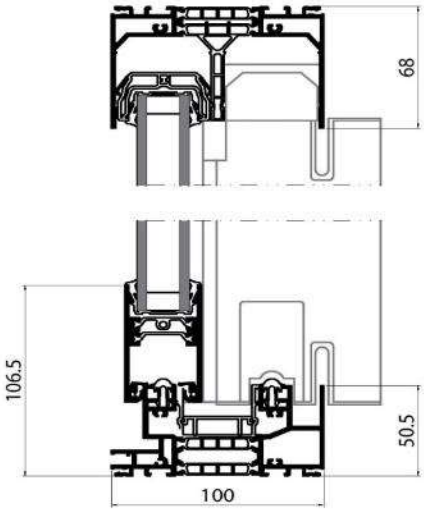
Coupe horizontale 1 B

Luméal : porte fenêtre coulissante 4 vantaux (GA)

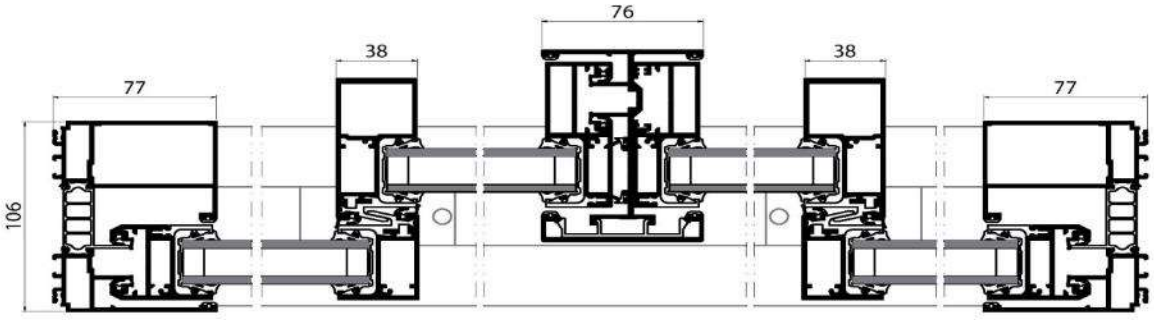
- Applications :



- Coupes (échelle 1/3) :

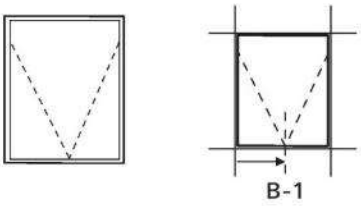


Coupe verticale



Coupe horizontale

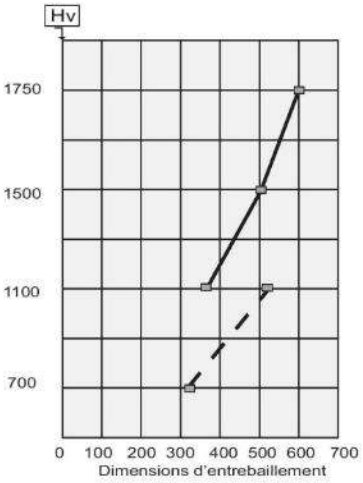
Soléal : chassis à l'italienne (FY)



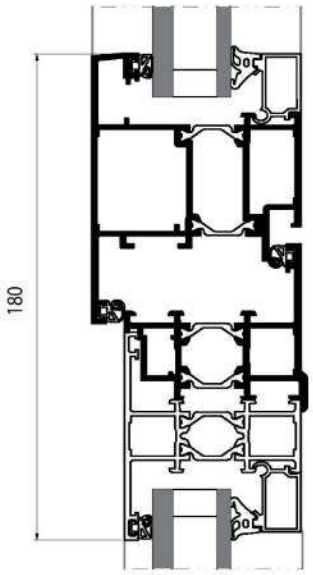
Dimensions Maxi par Ouvrant
Largeur = 1500 mm
Hauteur = 1750 mm

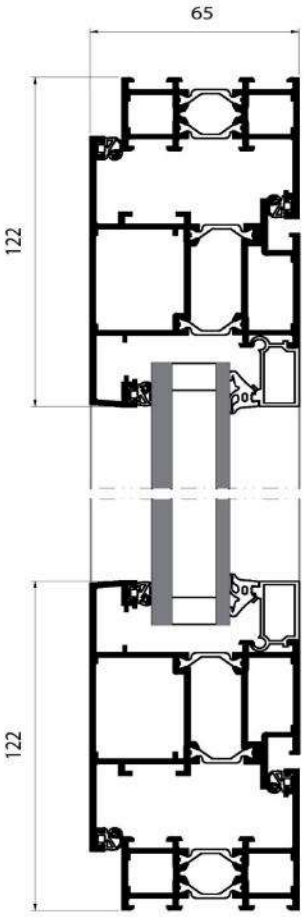
Poids Maxi par Ouvrant
100 kgs

Dimensions d'entrebaillemment

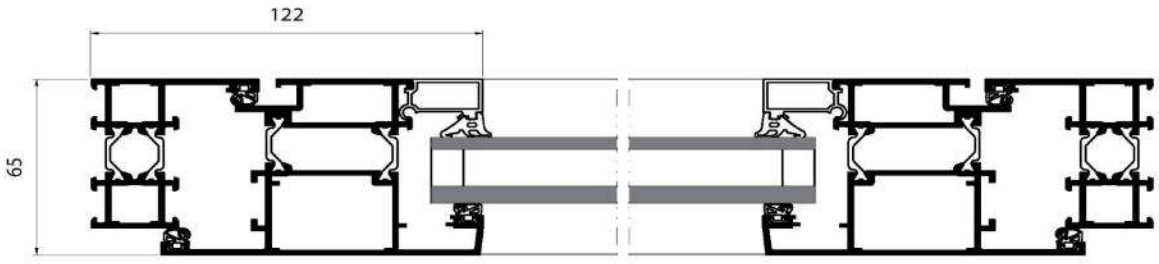


Intégration ensemble menuisé
Coupe B-1

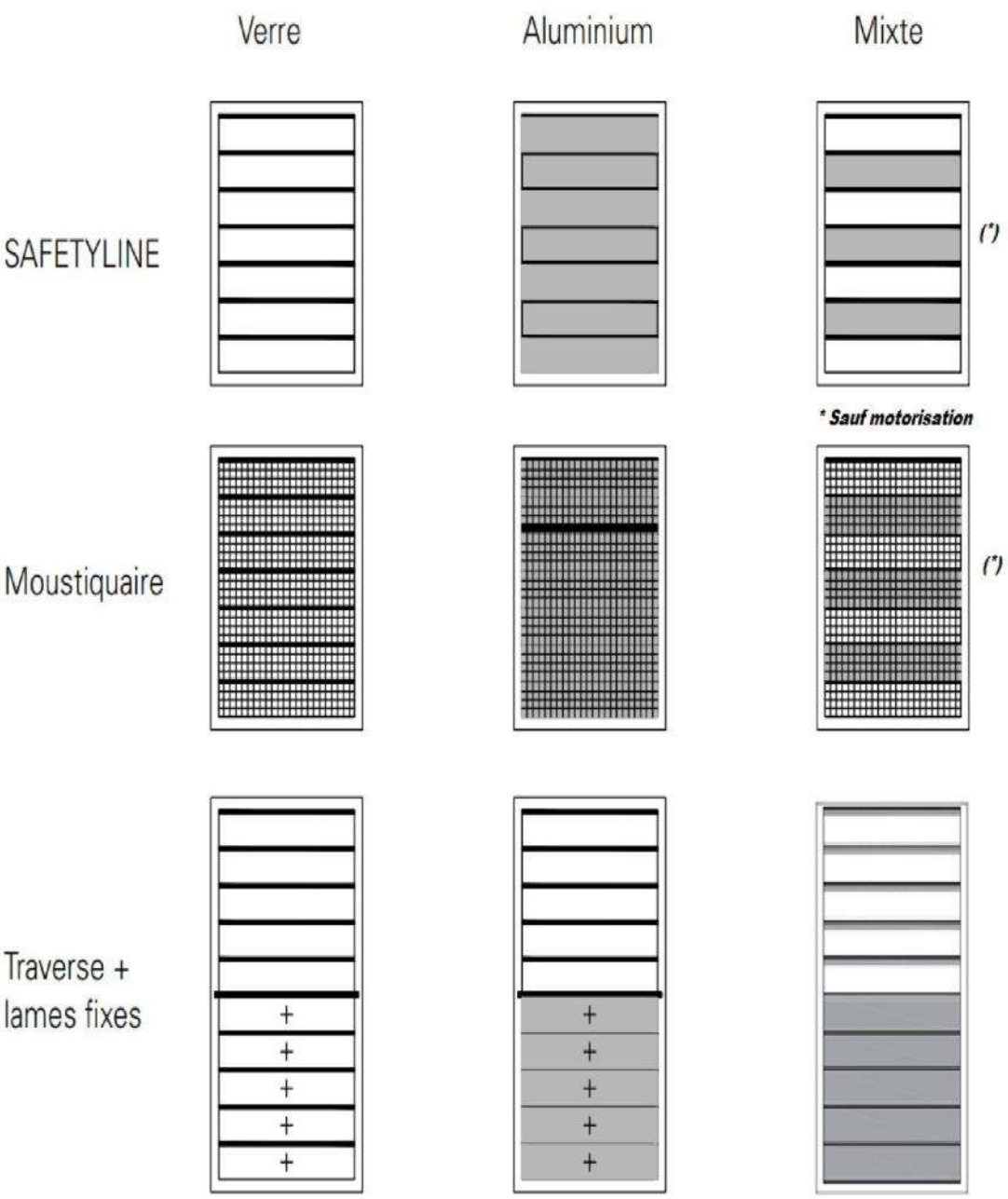




Coupe verticale

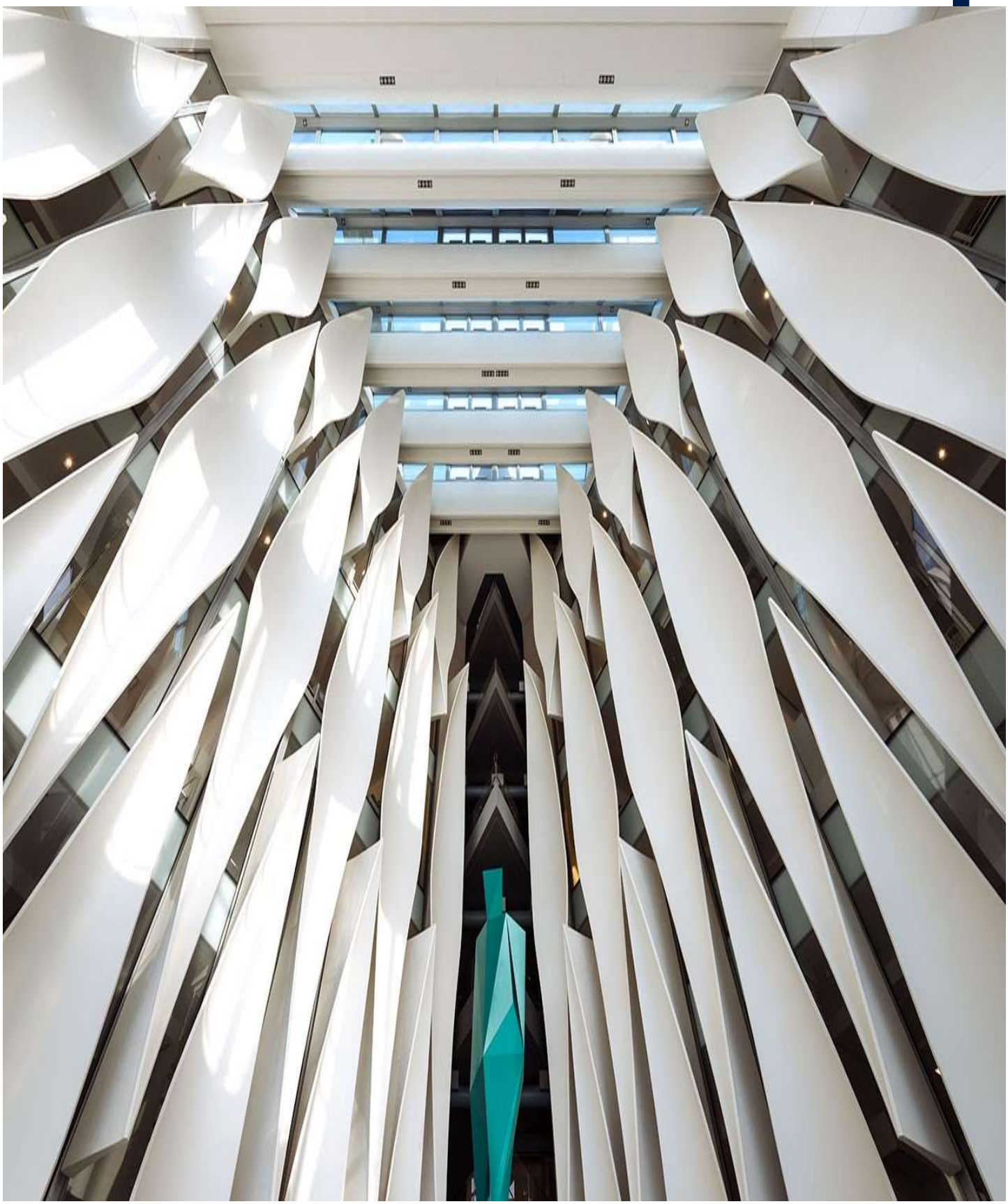


Coupe horizontale


Verre
Aluminium
Mixte
SAFETYLINE
(*)
* Sauf motorisation
Moustiquaire
(*)
Traverse +
lames fixes

Our Projects

dar al-handasah
shair and partners



Al-Rehab


Sittin Group


Sittin Group


25/04/2013 00:58


25/04/2013 00:58


25/04/2013 00:56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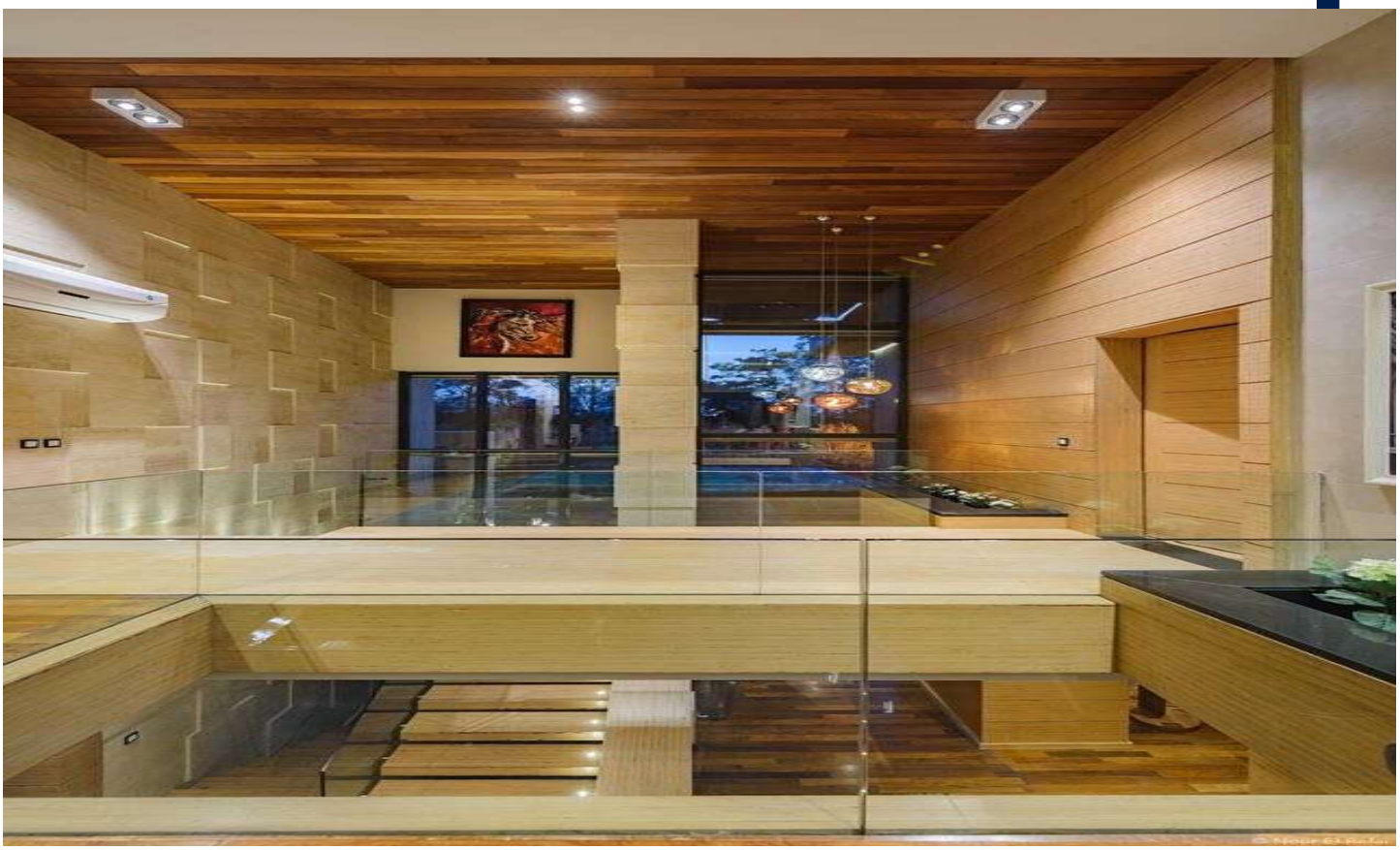

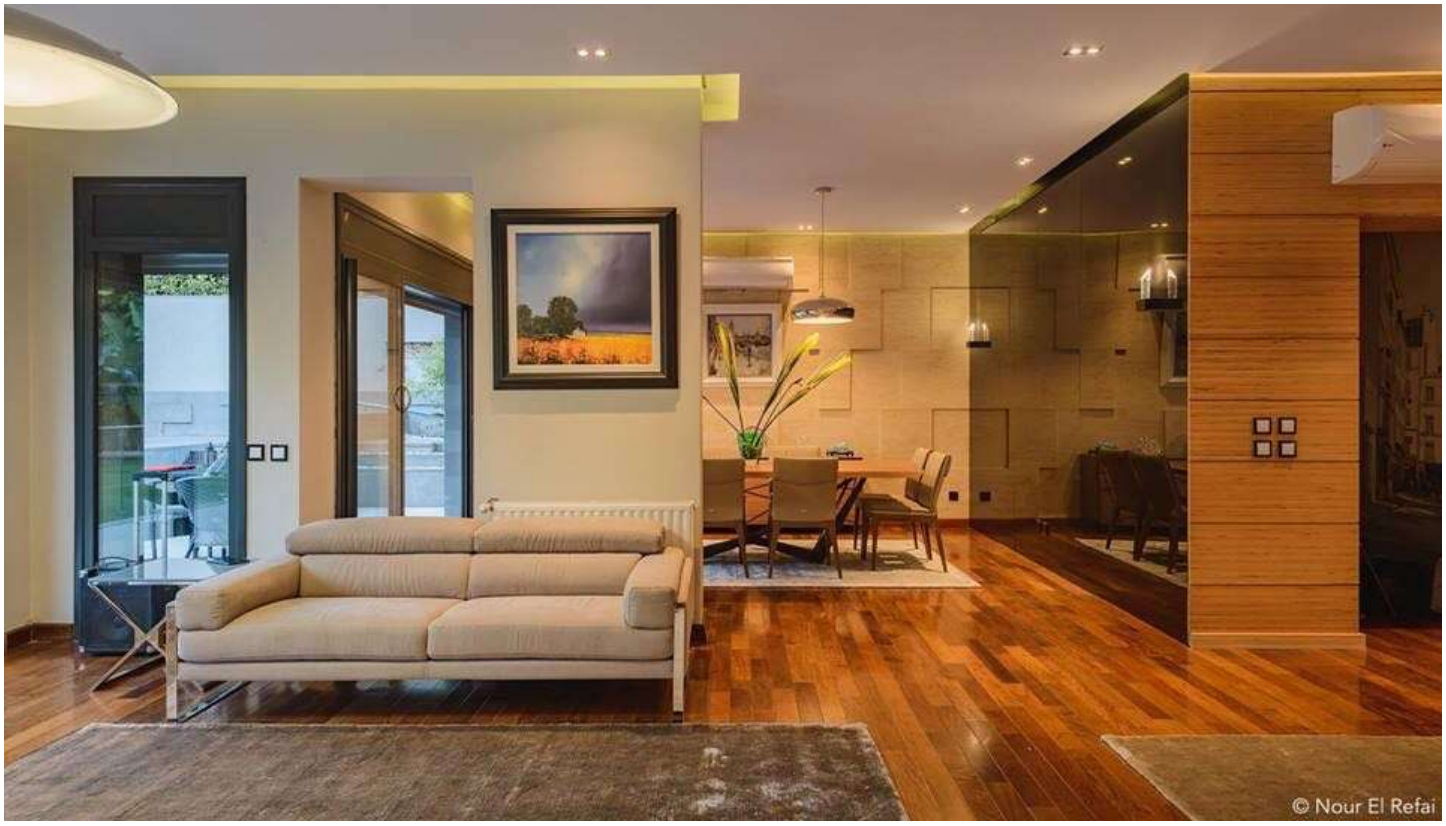
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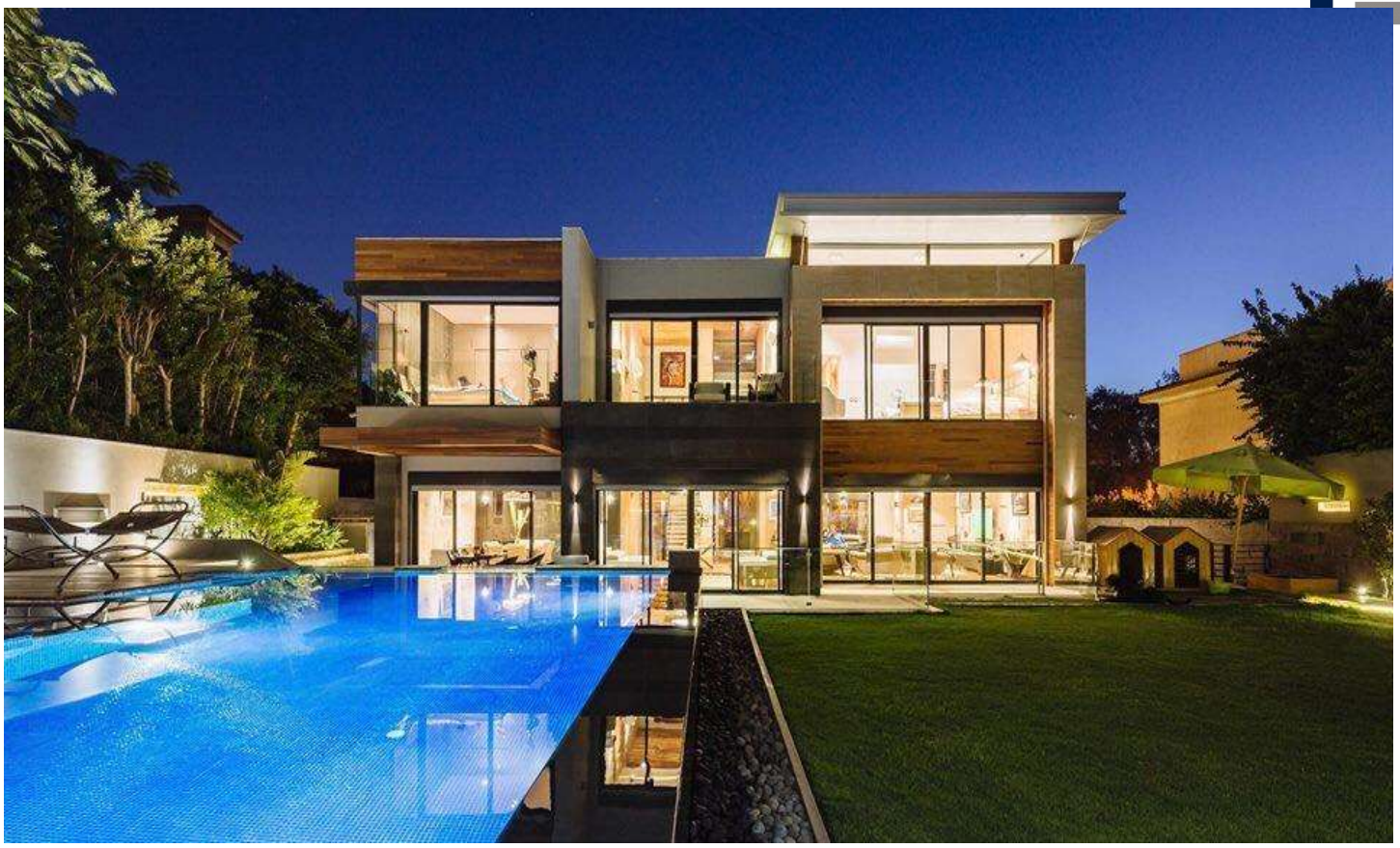

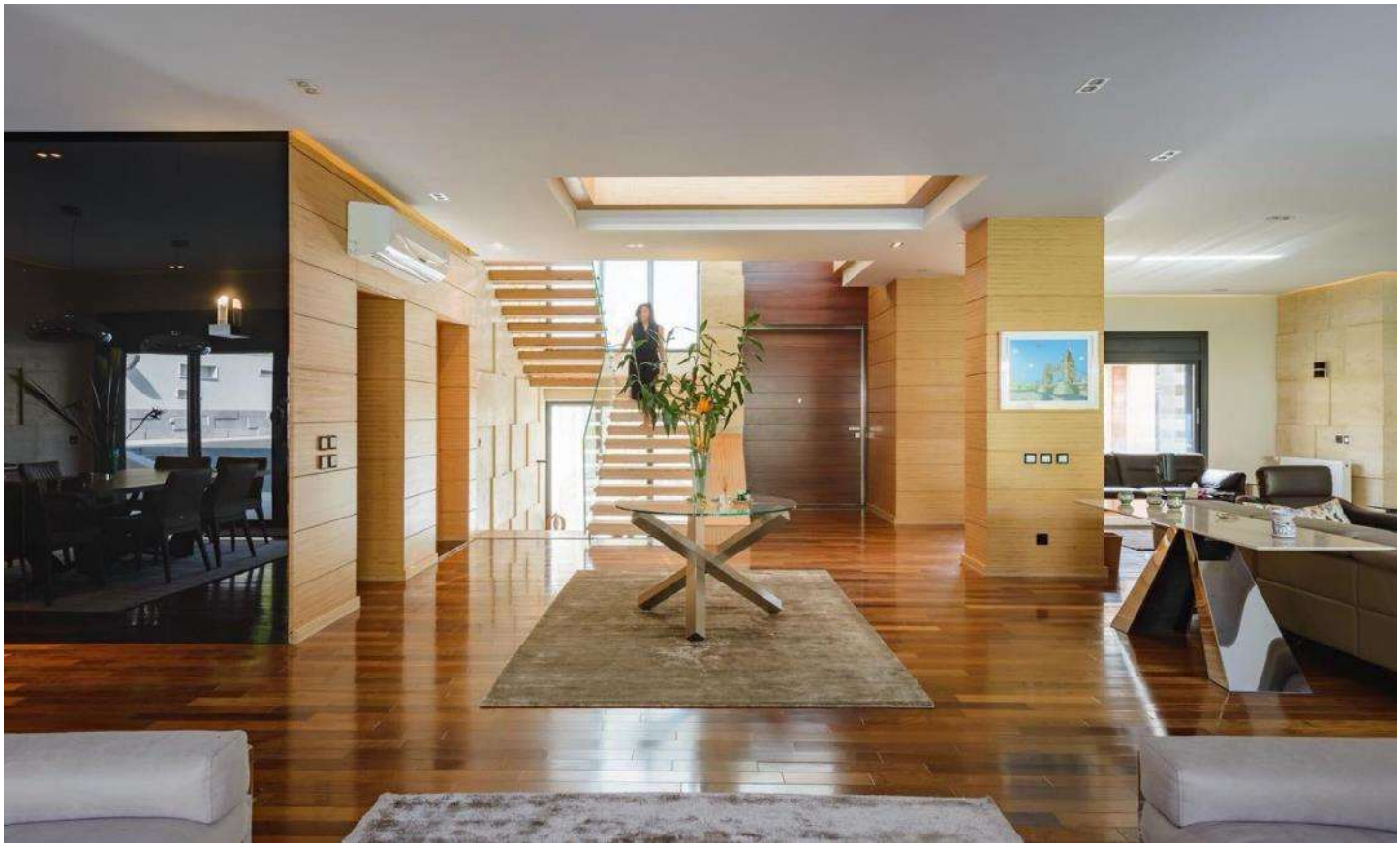

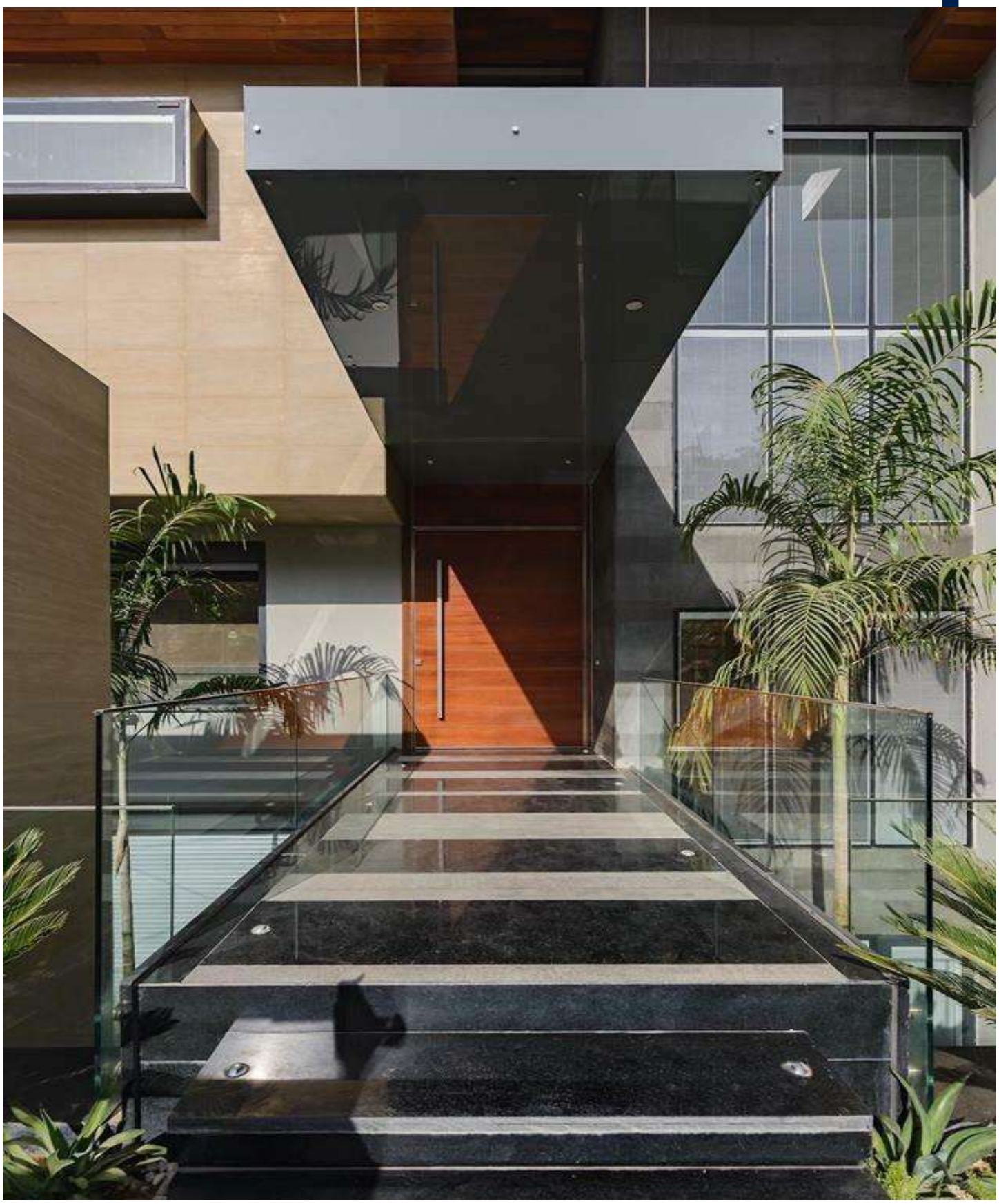

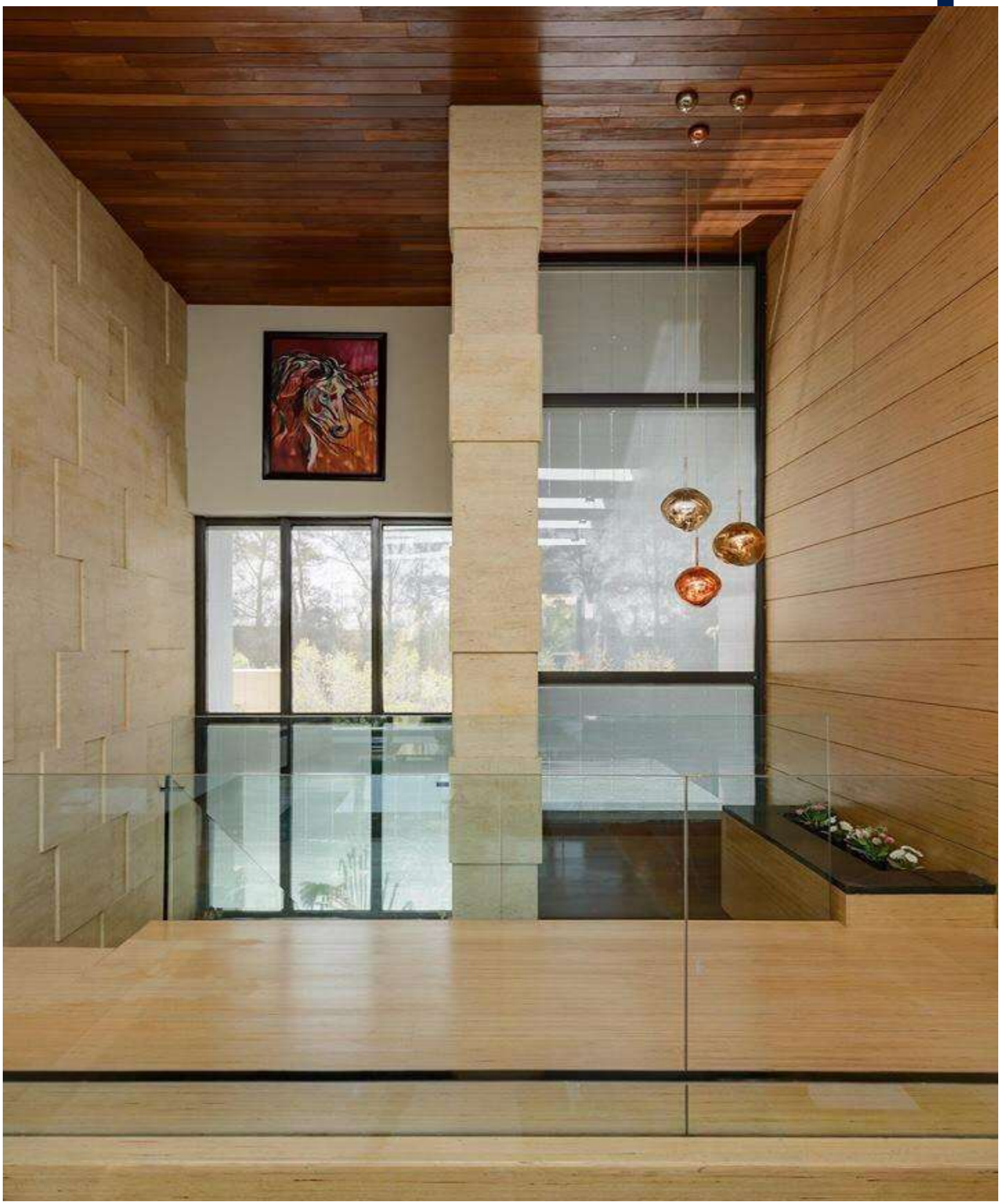


03/01/2013 01:25


03/01/2013 01:24


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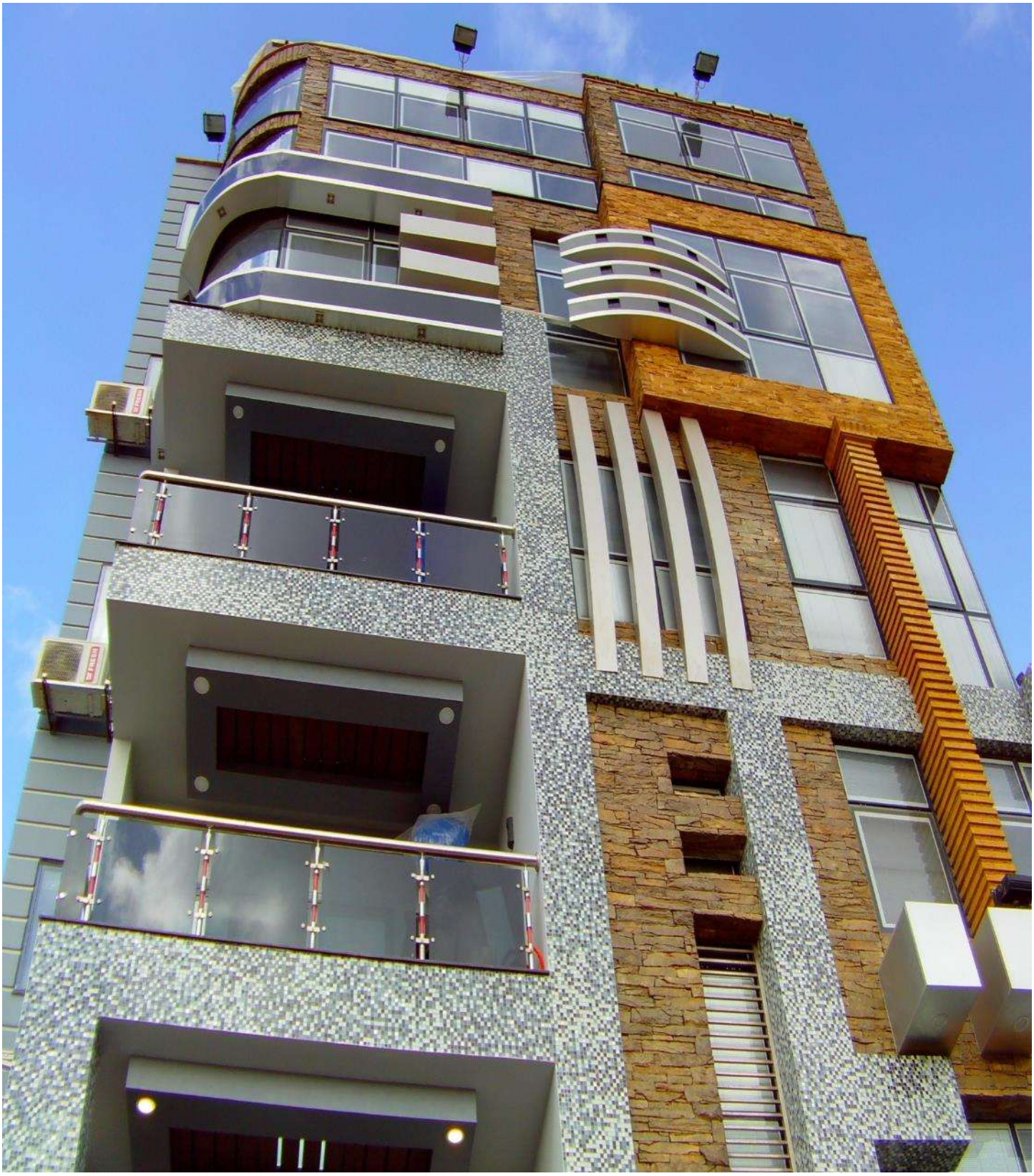
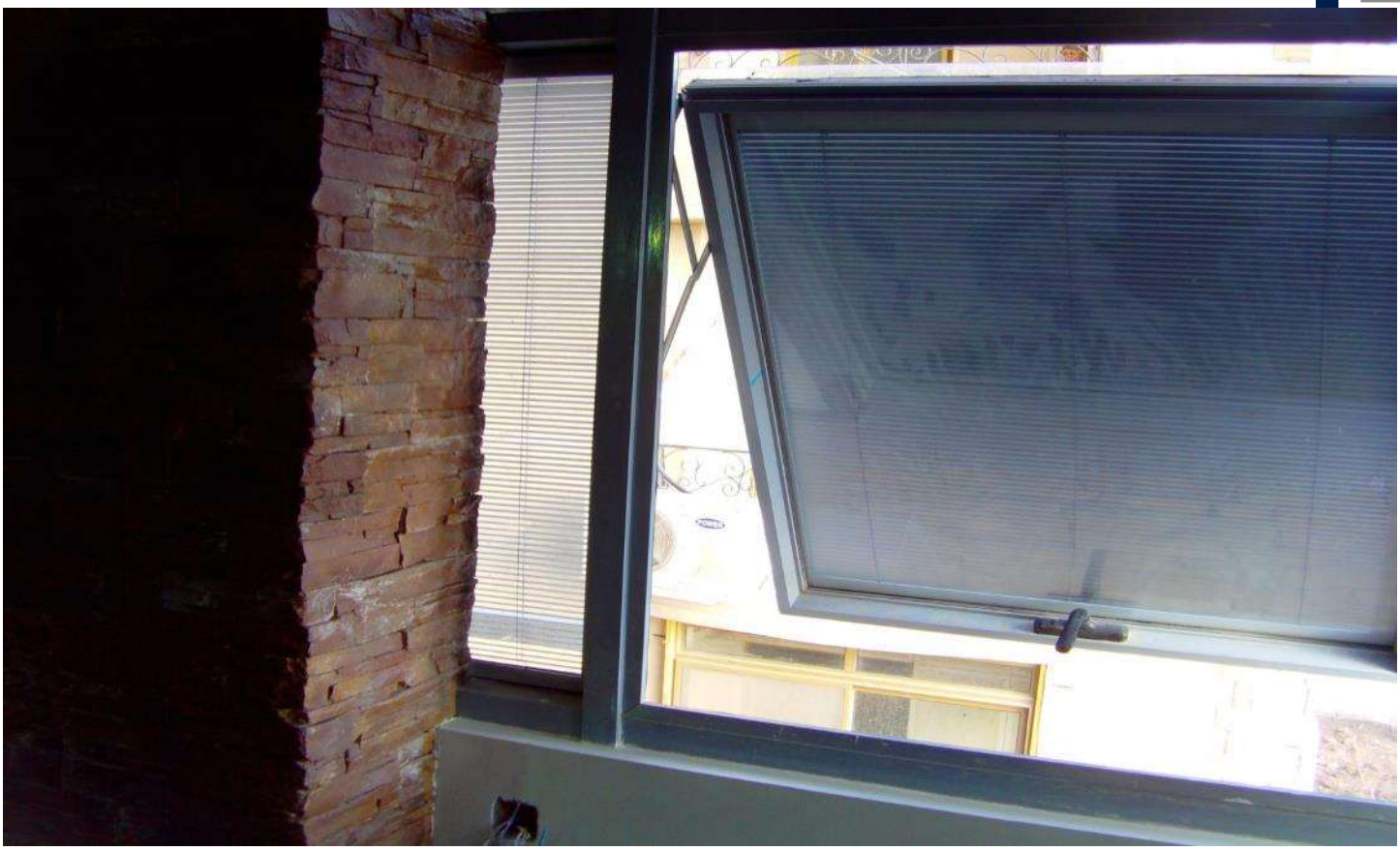
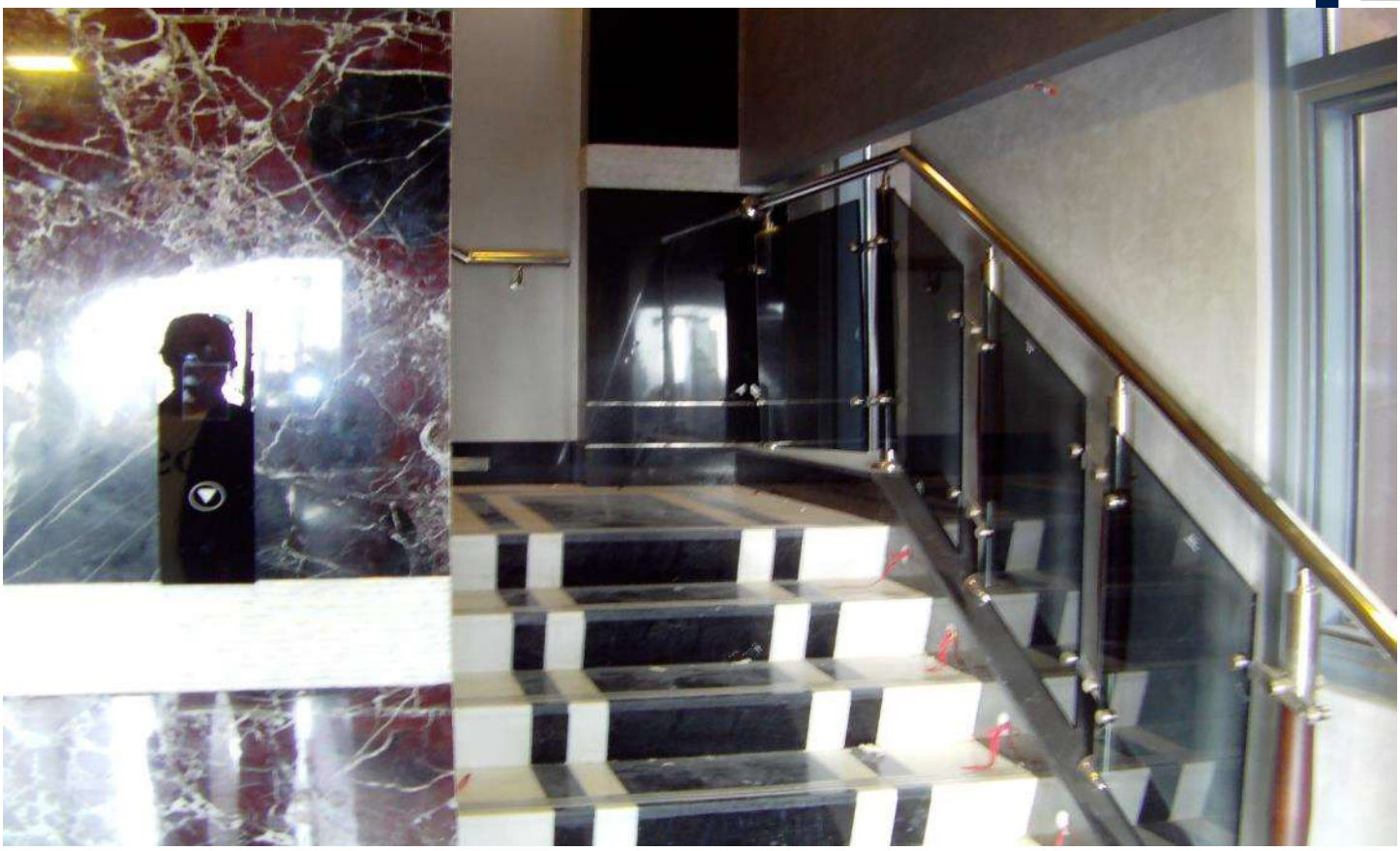
VIDRIOPANTALLA


27/01/2013 01:26








G-1
ELMANSOUR
LEJOUR


ELECTRO

ADMINISTRATIVE OFFICE


صيدلية


Porta D'oro
italian cuisine
Porta D'oro
Italian cuisine


Italian cuisine


NT VITA
ROUP

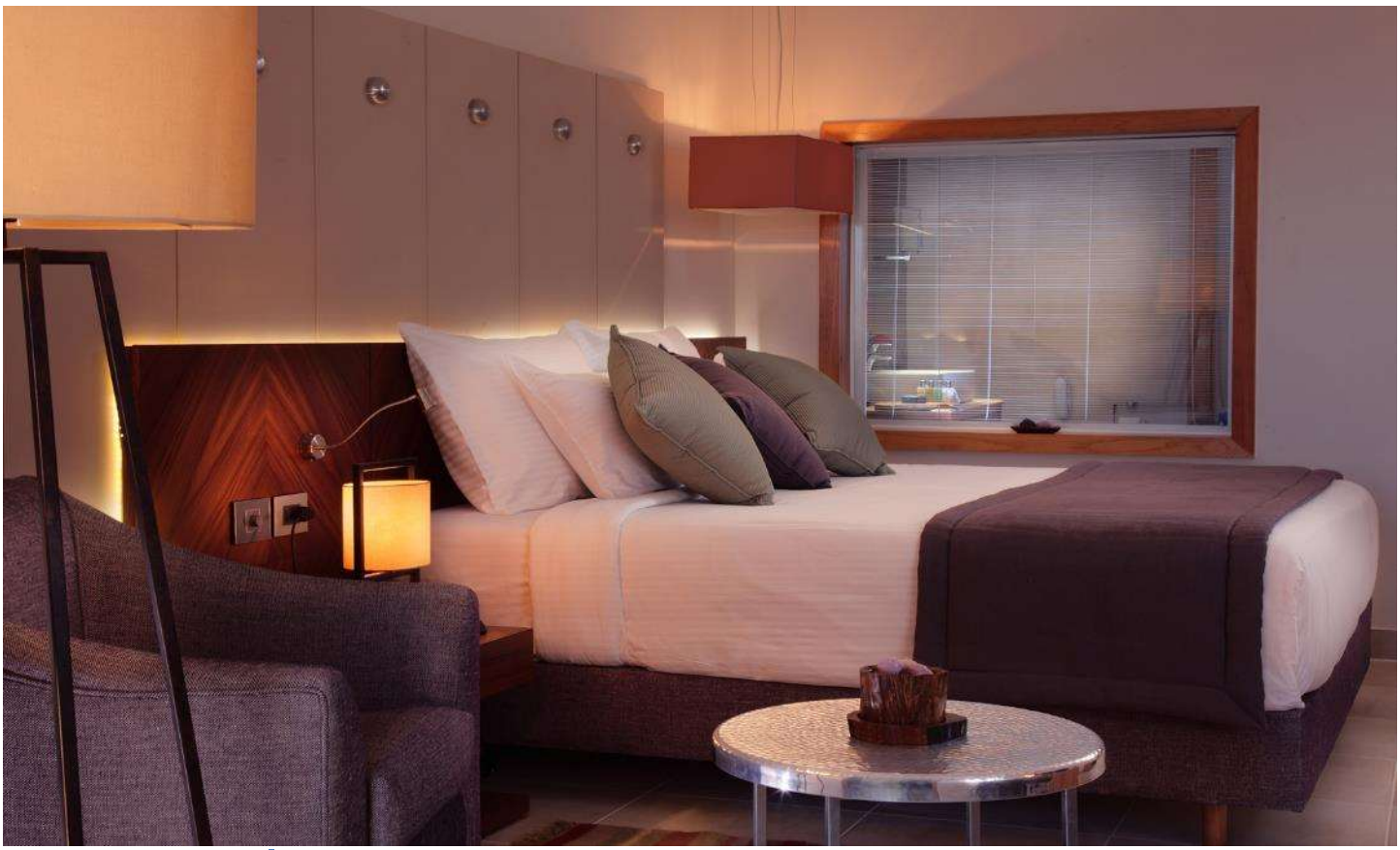

أسواق عبدالله العثيم
Welcome
مرحبا بكم

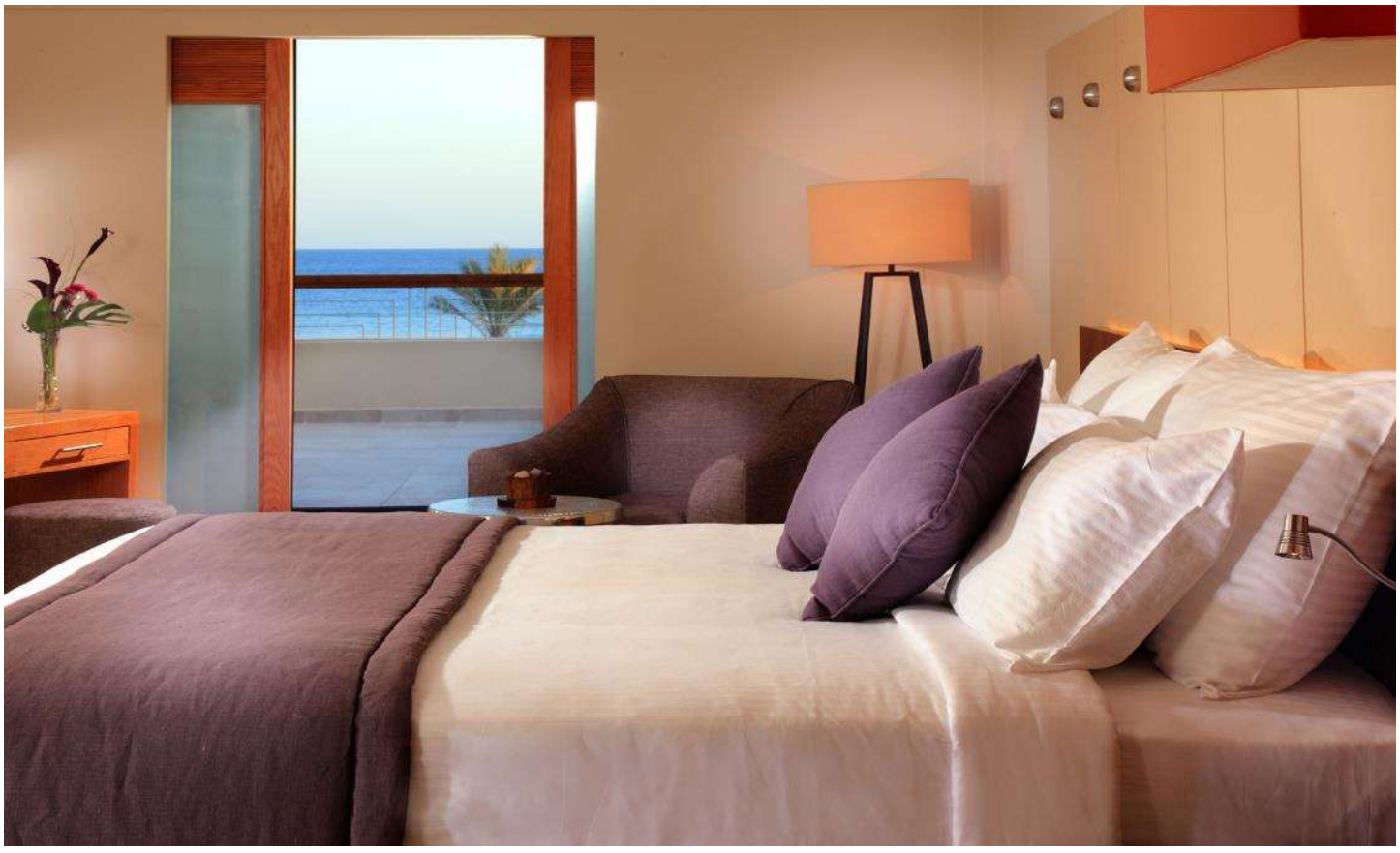

Welcome
مرحبا بكم
Entrance
دخول


عبدالله العثيم
ممكن أساعدك؟


أسـواق العثيم
Othaim Markets
Welcome
مرحبا بكم


Othaim Markets
أسـواق العثيم
Welcome
مرحبا بكم
Welcome
مرحبا بكم
Welcome
مرحبا بكم
تم الافتتاح
Open Now



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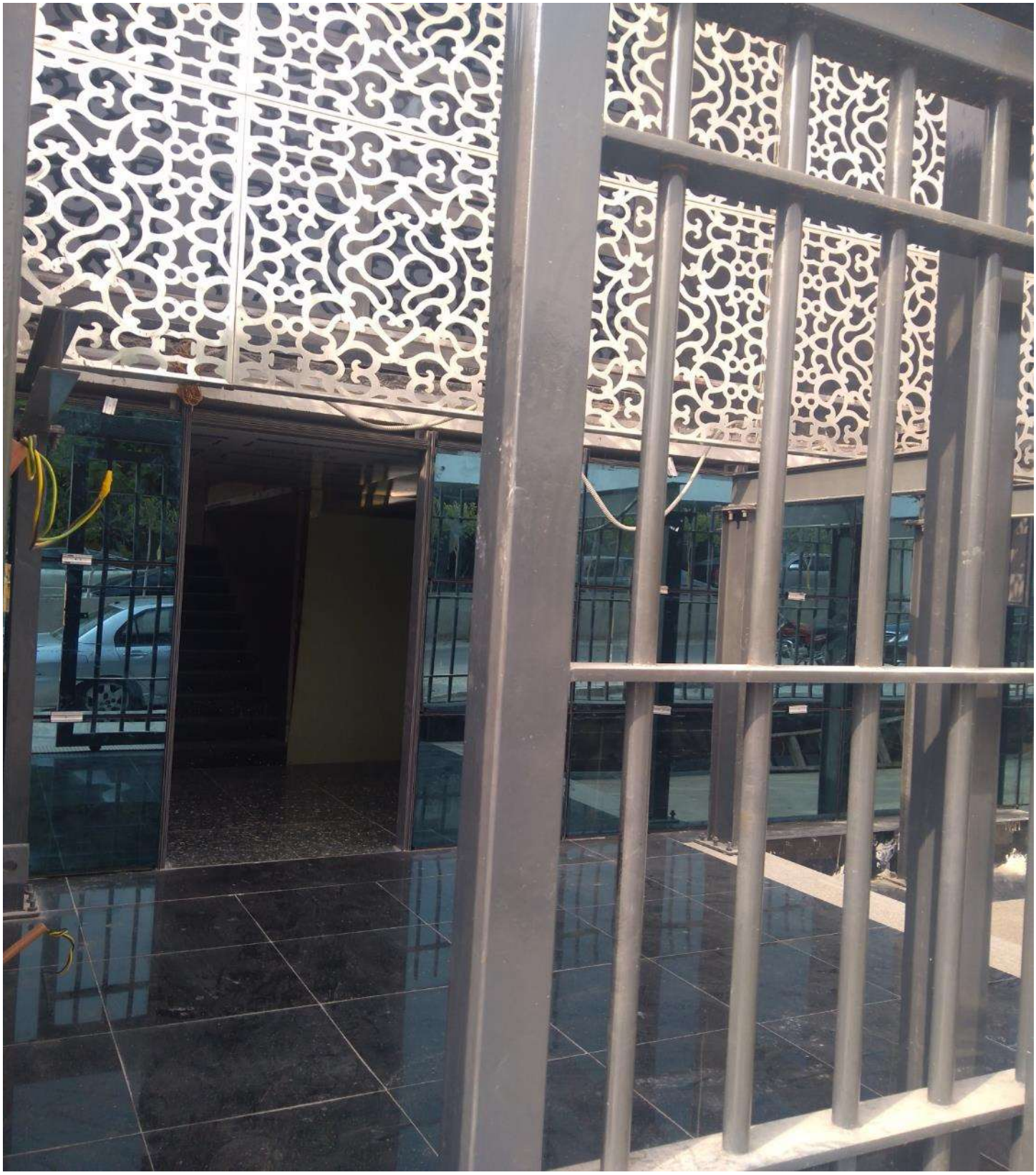
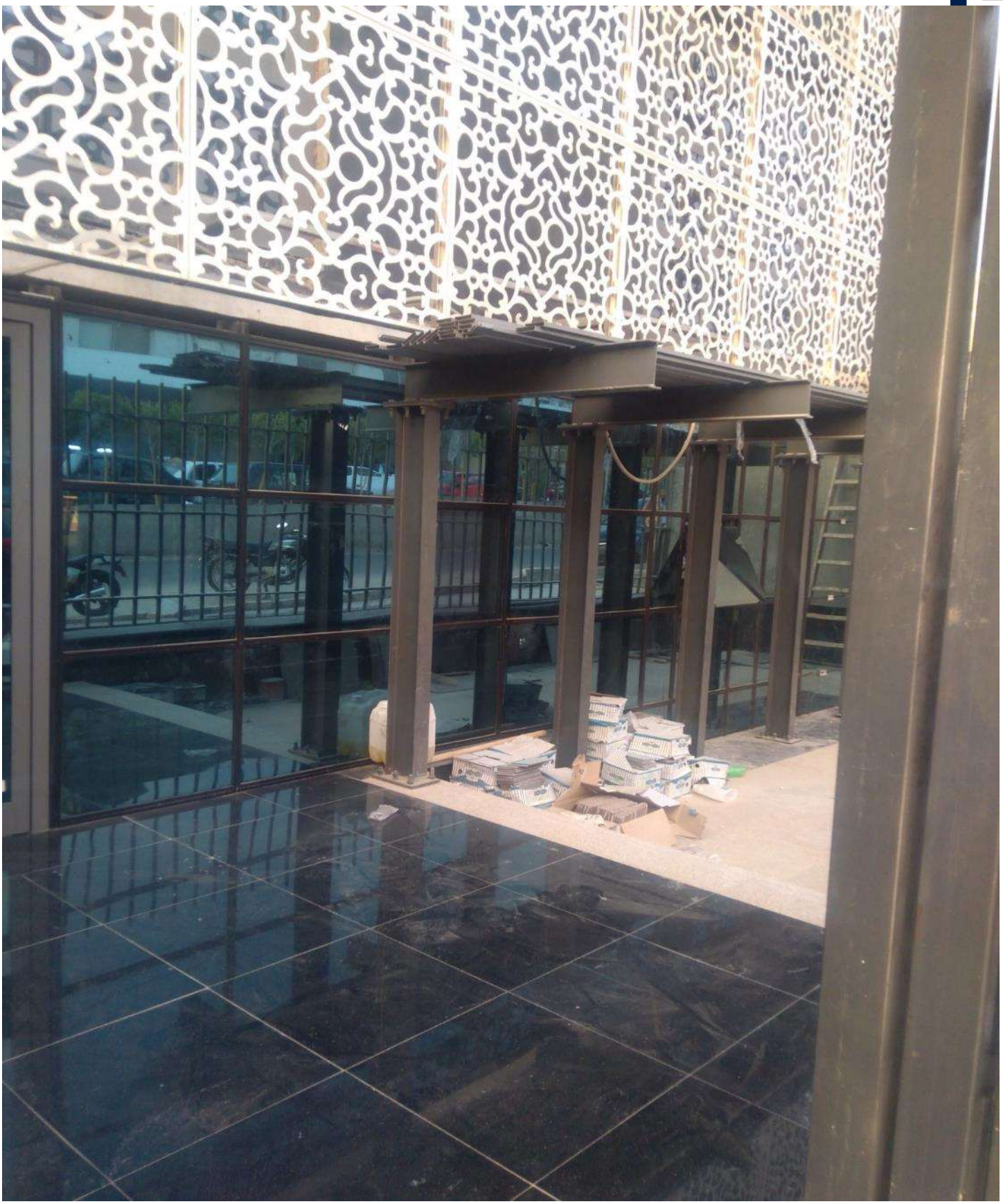
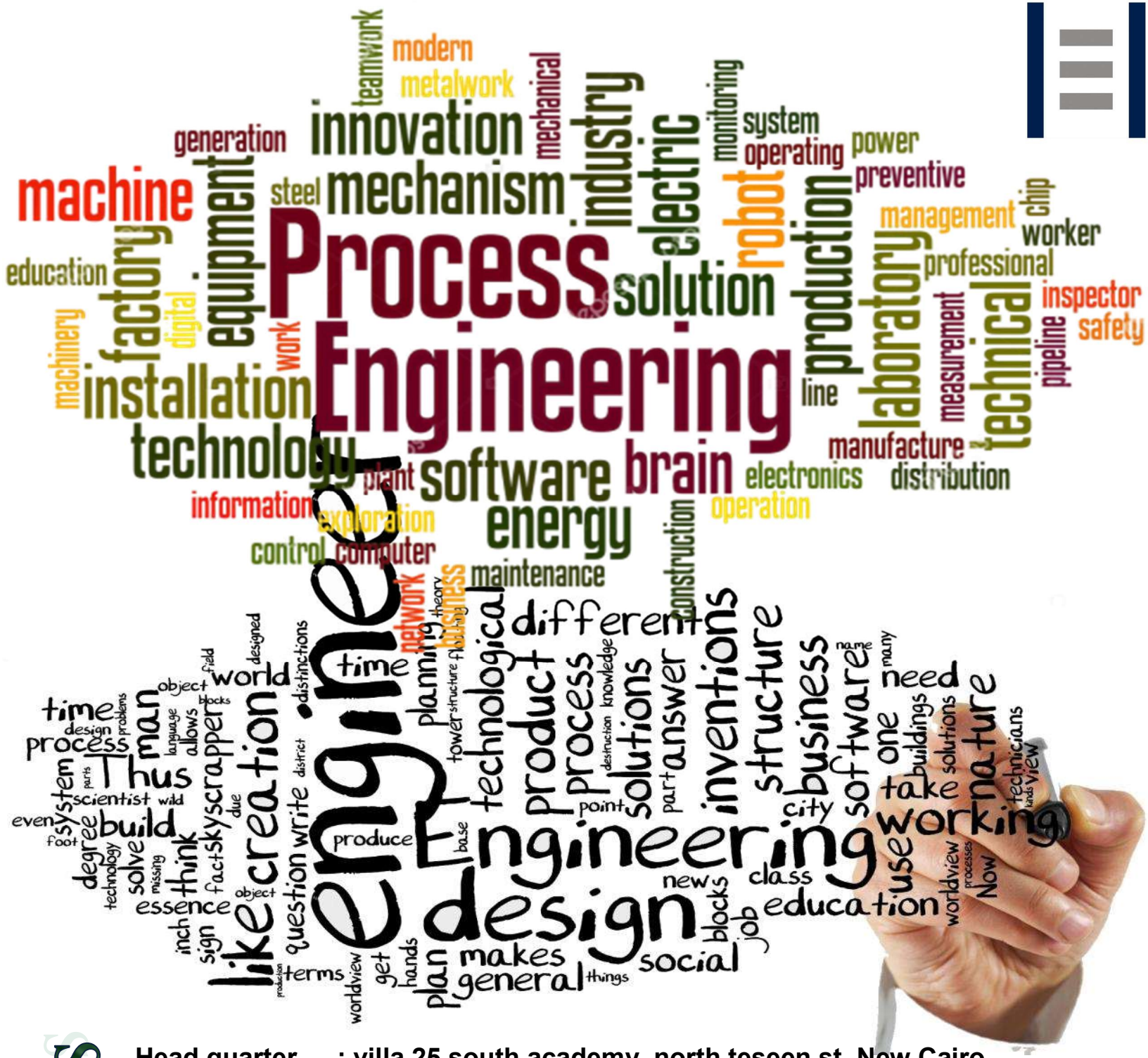
Façades Solutions





References



Contacts

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