VetroSlide | MINIMAL SLIDING SYSTEM WINDOWS & DOORS

ALUMINIUM MINIMALIST SYSTEMS
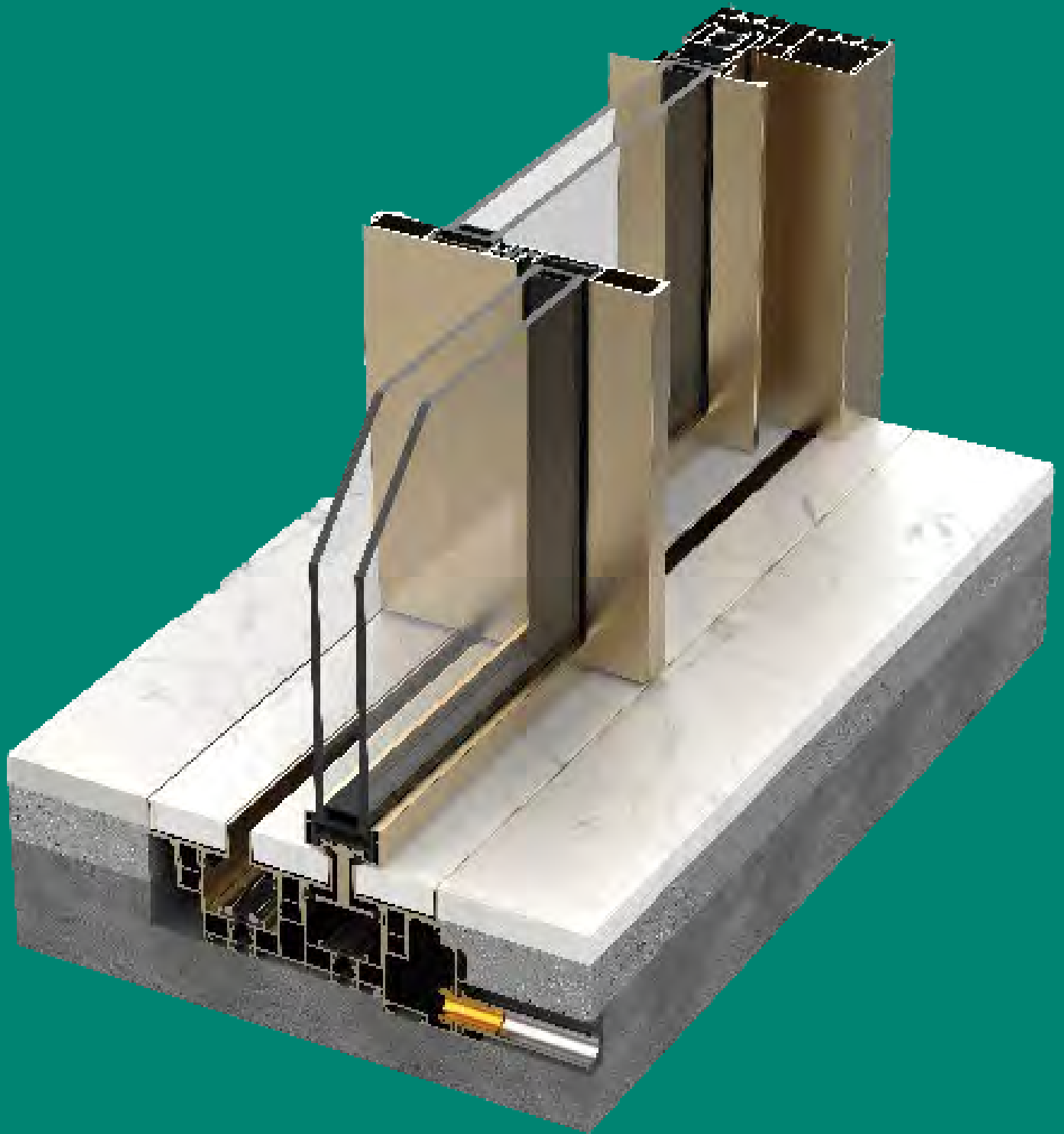
VetroSlide Technical Specifications

	SLIDING VS 28	SLIDING VS 36	SLIDING VS 44
PROFILES	THERMAL BREAK	THERMAL BREAK	THERMAL BREAK
LEAF WEIGHT UP TO	300 Kg	750 Kg	1500 Kg
LEAF HEIGHT	3 m	4 m	6 m
LEAF AREA	4.5 m^2	8 m^2	15 m^2
GLASS THICKNESS UP TO	28 mm	36 mm	44 mm
MEETING STILE WIDTH	20 mm	22 mm	22 mm
CONCEALED TRACKS	YES	YES	YES
NUMBER OF TRACKS	6	6	6
MULTI POINT LOCKING SYSTEMS	OPTIONAL	YES	YES
AUTOMATIC SLIDING MOTORS	NO	YES	YES
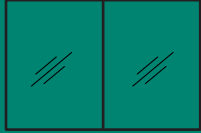
Minimal Profile

The system designed with slimmest possible aluminium interlock profile 22mm.

Structural Stability

The sliding leaf can accommodate glass combinations up to 36 and 44 mm thick, allowing for options ranging from double to triple glazing. Additionally, the aluminum interlock profiles can be provided in different depths, with provision for additional aluminum or steel reinforcement profiles to handle wind loads effectively and ensure maximum structural stability.

Maximum Glass

Maximum glass panels up to 3 meter wide by 6 meter high.
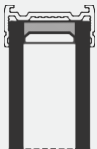
Glass Combination

VetroSlide system accommodates multiple glass thicknesses and compositions to fit the project structural and architectural requirements.

Bottom Track

The VetroSlide bottom track system is designed to incorporate multiple interfaces and materials, which can be hidden under the finished floor, aluminium profiles, or a visible track, according to the client's preference and project details.

Durable Design

Bespoke sliding wheels, specifically designed for the VetroMax system, are crafted from high-grade stainless steel and capable of supporting a leaf weight of up to 1500 kg in the harshest weather conditions.
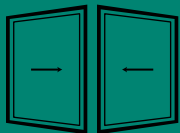
Free Corner

The sliding system features a free corner configuration that ensures uninterrupted views and maximum space when the door is open.

Guillotine

Vertical sliding functionality allows for single or multiple panels to slide from up or down.

Motorized Door

Motorized sliding panels provide additional comfort and can be operated via home automation, smart devices, digital switches, and remote control.

System Performance

Tested and certified system for water penetration, air infiltration, and structural stability, complying with both American and European standards to ensure maximum performance.

Thermal Performance

Thermal broken Aluminum profiles offer maximum heat insulation. The system is meticulously designed to accommodate thermal expansion, accounting for temperature variations between the inner and outer spaces.
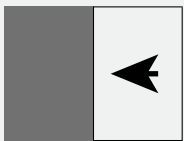
Unlimited Solutions

The VetroSlide system is crafted to offer our clients limitless opening solutions for windows and doors, enabling them to optimize space usage and ensure effortless movement.
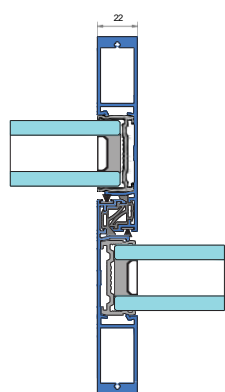
22 mm

Sleek 22 mm wide slim aluminium profile, designed to complement modern aesthetics, while maximizing natural light intake and providing unobstructed views.

INSIDE

OUTSIDE
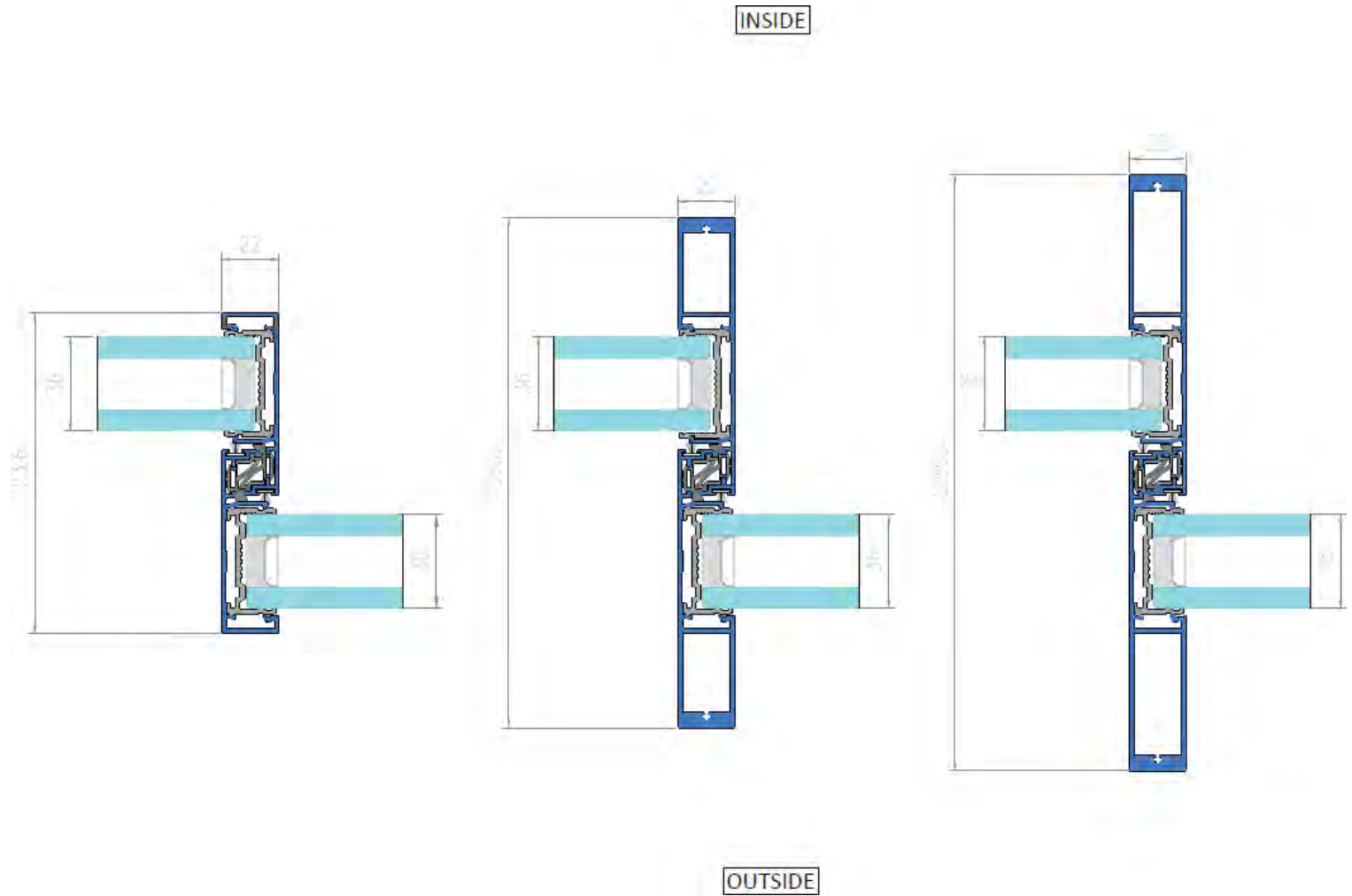
Interlock Profile

Aluminium interlock profiles with multiple depths, meticulously designed to guarantee structural stability and integrity. These versatile profiles are engineered to support different glass sizes and withstand varying wind loads.

3 meter by 6 meter

Large glass panels measuring up to 3 meters wide by 6 meters high offer expansive and impressive views, allowing ample natural light to flood into interior spaces.

VetroSlide 28

Double Glass
(6+6)

Double Glass
(8+8)

Double Glass
(10+10)

VetroSlide 36

Double Glass
(6+6)
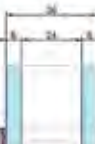
Double Glass
(8+8)
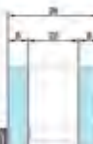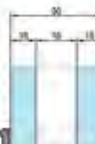
Double Glass
(10+10)

VetroSlide 44

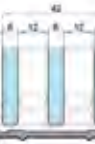Double Glass
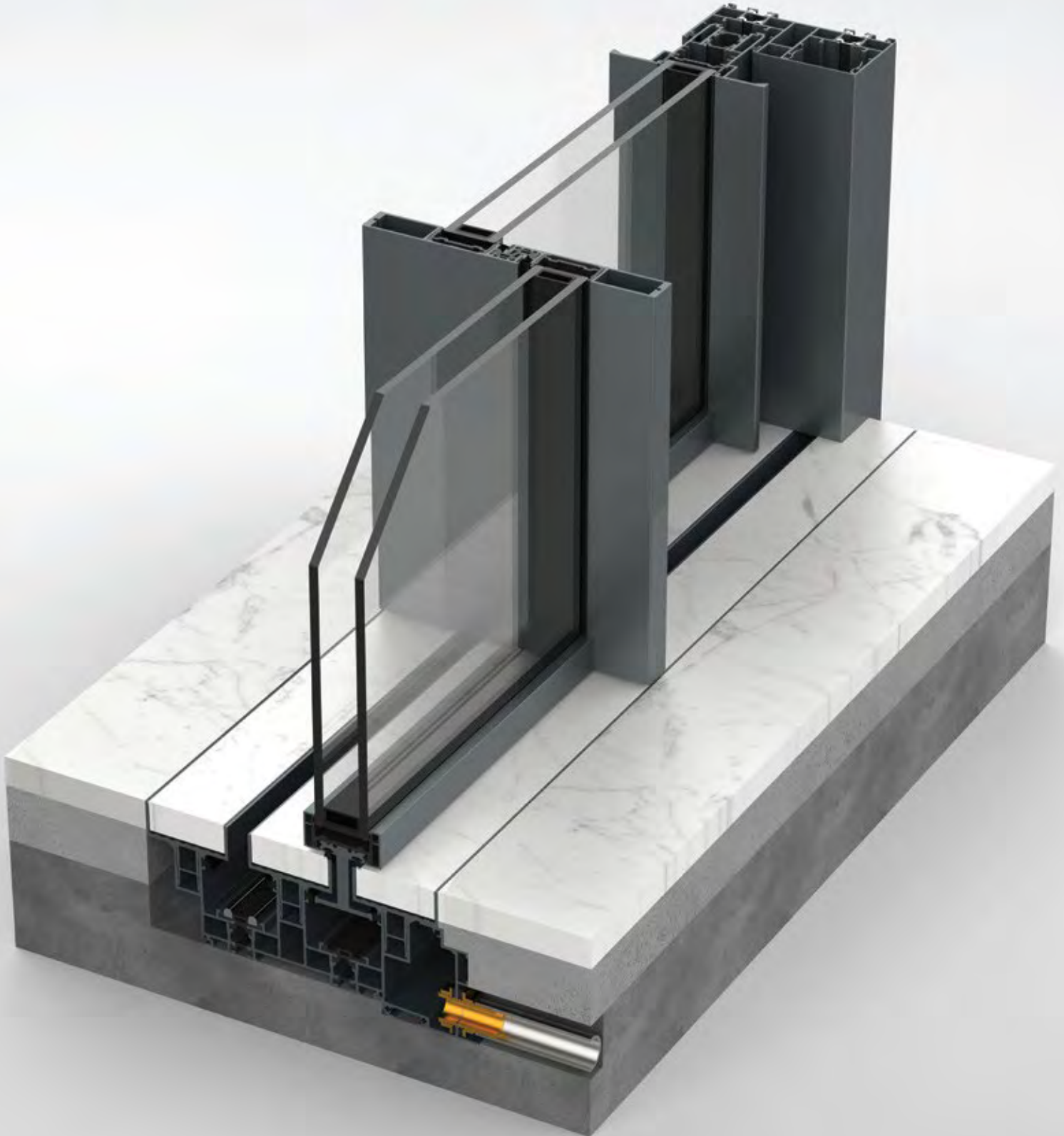(12+12)

Double Laminated Glass
(13.52+13.52)

Double Glass
(6+6+6)

Glazing

The Vetro Slide system is engineered to accommodate varying glass thicknesses upto 28 mm, 36 mm and 44 mm, catering to a range of glass compositions to meet structural, thermal, and acoustic specifications.

Concealed Sliding Door Under Floor

Seamless connection between indoor and outdoor spaces is achieved with our hidden bottom track system. It is by concealing the track under the floor that this innovative solution eliminates any visual obstacles, allowing for smooth merge and transition between indoor and outdoor living.

Concealed Sliding Door Under Aluminium

Seamless connection between indoor and outdoor spaces is also achieved with our hidden bottom track system based on concealing the track under the aluminium.

Sliding Door Visible Track

On the one hand, Vetromax sliding system, gives provides you with a wide range of options, but on the other hand Visible track system is another option for you.

Support 1500 kg

Bespoke hardware solutions are engineered to handle significant weight loads, with the capability to support up to 1500 kg per leaf. This robust hardware ensures the safe and reliable operation of large and heavy glass panels, providing stability and security for architectural projects that demand exceptional strength and durability.

Uninterrupted Views

The s liding system features a f ree corner configuration that ensures uninterrupted views and maximum space when the door is open. With a seamless corner connection, there is no need for a fixed corner post or pillar, allowing for a continuous and unobstructed flow. When fully opened, the doors provide a truly immersive experience, bringing the beauty of the surroundings directly into your living space.

Motorized Vertical Sliding

The Guillotine Door's unique vertical sliding mechanism sets it apart from traditional doors, offering a seamless and graceful operation that transforms any space into a work of art. Its precise engineering ensures smooth and precise movements, guaranteeing reliable performance for years to come.

- Synchronized motion for up to 4 panels connected to one motor, allowing all sliding panels to move simultaneously at different speeds until they reach the open or close position.

- Multiple control options, including smart devices, home automation, remote control, and hardware switch.

- Safe operation with adjustable obstacle detection and additional safety sensors.

- Self-programming via a smart bespoke control panel that automatically detects the open and close position.

- Easy installation, as the system comes fully assembled in the factory and only requires connection to the sliding panels and 230 Volt standard plug.

- Soft closing at the open and close end points, providing a smooth and gentle operation.

- Supports a weight of up to 1500 Kg per leaf.

- Multiple speed options to cater to different panel sizes and client preferences.

- Silent mechanism for maximum comfort without any noise disturbances.

- Backup battery for continued operation in case of power supply failure.

- Manual mode option available for added convenience.

VetroMax

OPEN

STOP

CLOSE

www.vetromax.com

OPEN

STOP

CLOSE

VETROMAX

VETROMAX

EUROPEAN STANDARD

Air Infiltration
600 PA
CLASS 4 (BS EN 1026:2016)

Water Tightness
450 PA
CLASS 8A (BS EN 1027:2016)
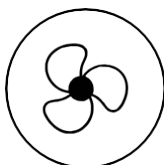
Wind Resistance
CLASS B4 (BS EN 12211:2016)

AMERICAN STANDARD

Air Infiltration
600 PA
ASTM E283/E283M-19

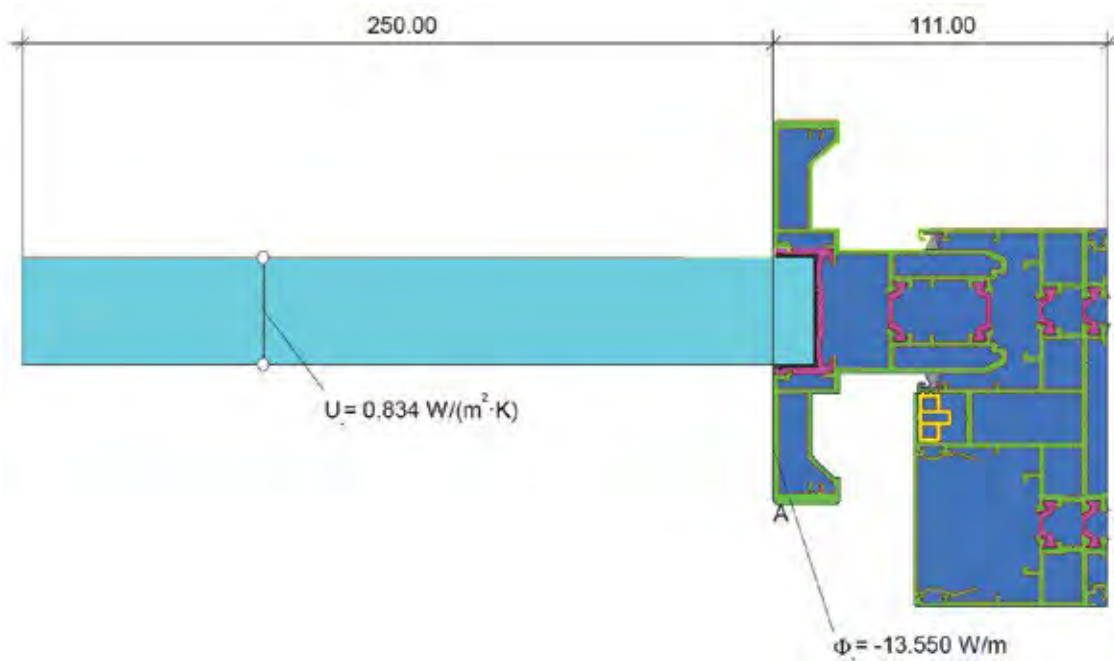### Water Tightness
420 PA
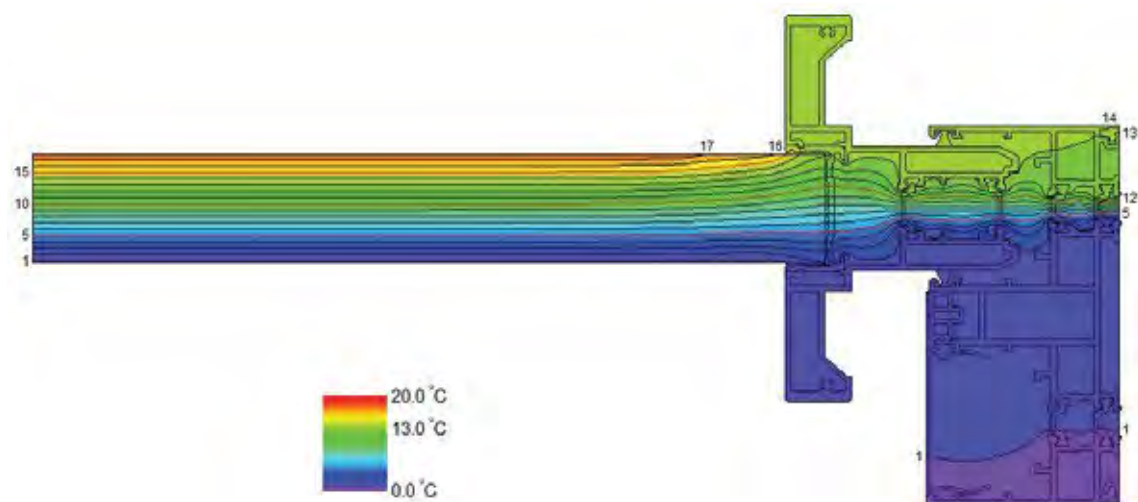ASTM E 331-00 (2016)
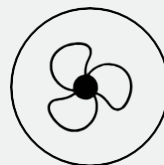
Wind Resistance
ASTM E 330-14

$$U_f = 0.834 \text{ W/(m}^2 \cdot \text{K)}$$
$$\Phi_f = -9.270 \text{ W/m}$$

Material	λ [W/(m·K)]	ε
Aluminium (Si Alloys)	160.000	0.900
EPDM (ethylene propylene diene monomer)	0.250	0.900
Panel	0.035	
Pile weather stripping (polyester mohair)	0.140	0.900
Polyamid 6.6 with 25% glass fibre	0.300	0.900
Silicone, pure (1)	0.350	0.900
Unventilated air cavity		

Boundary Condition	q [W/m²]	θ [°C]	R [(m²·K)/W]	ε
Epsilon 0.9				0.900
Exterior, frame		0.000	0.040	
Interior, frame, normal		20.000	0.130	
Interior, frame, reduced		20.000	0.200	
Symmetry/Model section	0.000			

$$U_{fA} = \frac{\dfrac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\dfrac{9.270}{20.000} - 0.834 \cdot 0.249}{0.064} = 3.98 \text{ W/(m}^2 \cdot \text{K)}$$

250.00   111.00

$U = 0.834\ W/(m^2 \cdot K)$

A

$\Phi = -13.550\ W/m$
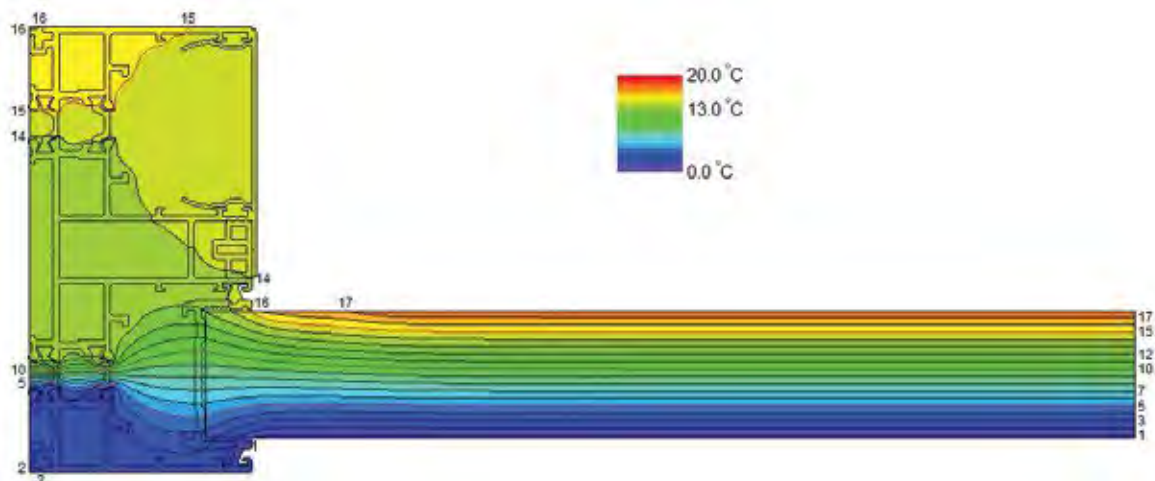
Material		$\lambda\,[W/(m\cdot K)]$	ε	Boundary Condition	$q\,[W/m^2]$	$\theta\,[^{\circ}C]$	$R\,[(m^2\cdot K)/W]$	ε
	Aluminium (Si Alloys)	160.000	0.900	Epsilon 0.9				0.900
	EPDM (ethylene propylene diene monomer)	0.250	0.900	Exterior, frame		0.000	0.040	
	Panel	0.035		Interior, frame, normal		20.000	0.130	
	Pile weather stripping (polyester mohair)	0.140	0.900	Interior, frame, reduced		20.000	0.200	
	Polyamid 6.6 with 25% glass fibre	0.300	0.900	Symmetry/Model section	0.000			
	Silicone, pure (1)	0.350	0.900					
	Unventilated air cavity							

20.0 °C
13.0 °C
0.0 °C

$$U_{fA,B} = \frac{\frac{\Phi}{\Delta T} - U_{p1} \cdot b_{p1} - U_{p2} \cdot b_{p2}}{b_f} = \frac{\frac{19.142}{20.000} - 0.834 \cdot 0.272 - 0.834 \cdot 0.272}{0.022} = 22.9 \ W/(m^2 \cdot K)$$

ALUMINIUM MINIMALIST SYSTEMS
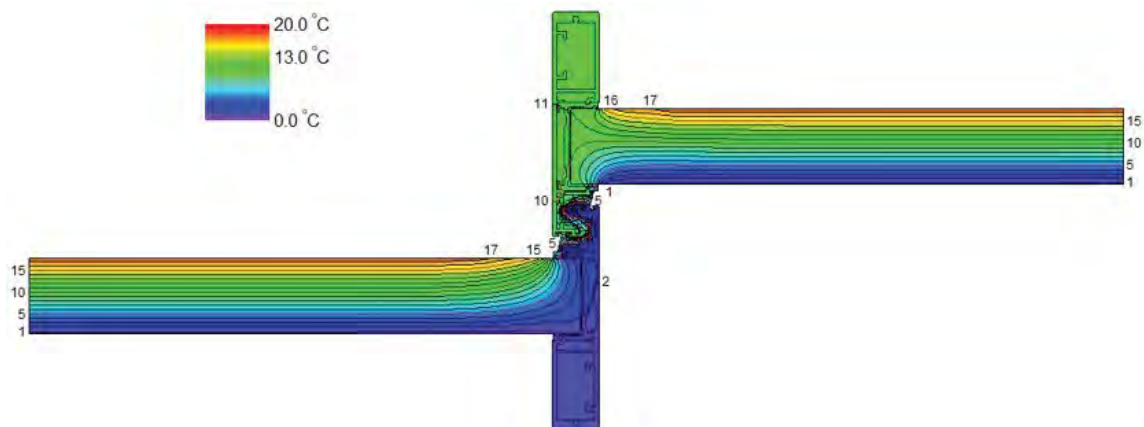
STRAIGHT SOLUTIONS

Single Track
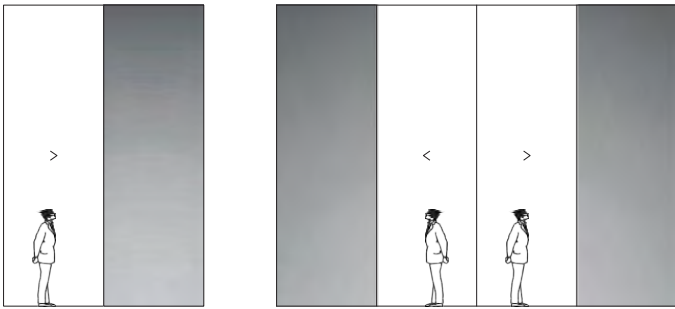
Two Track
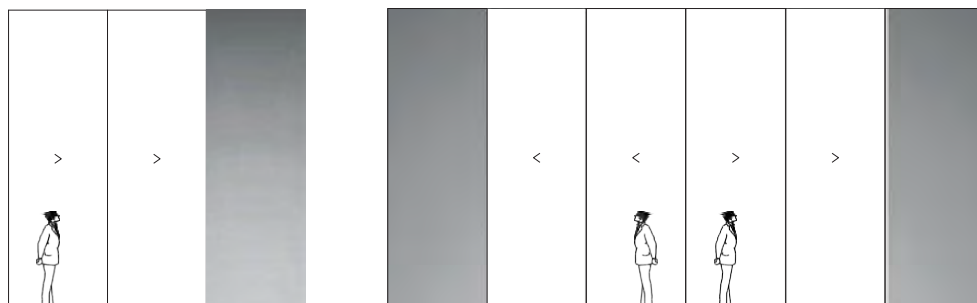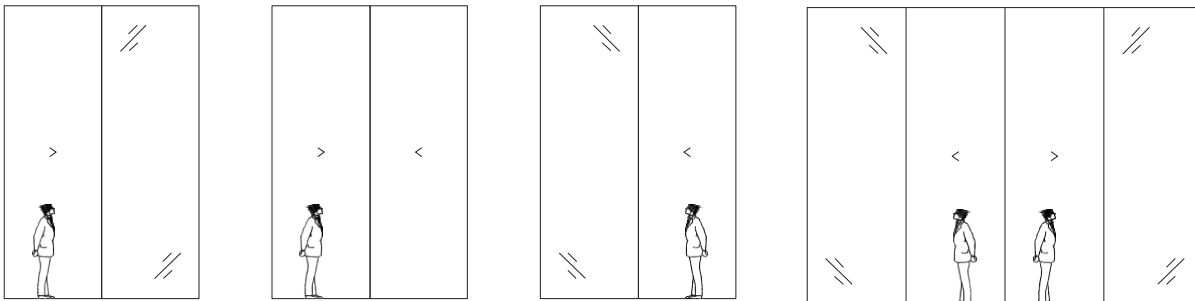
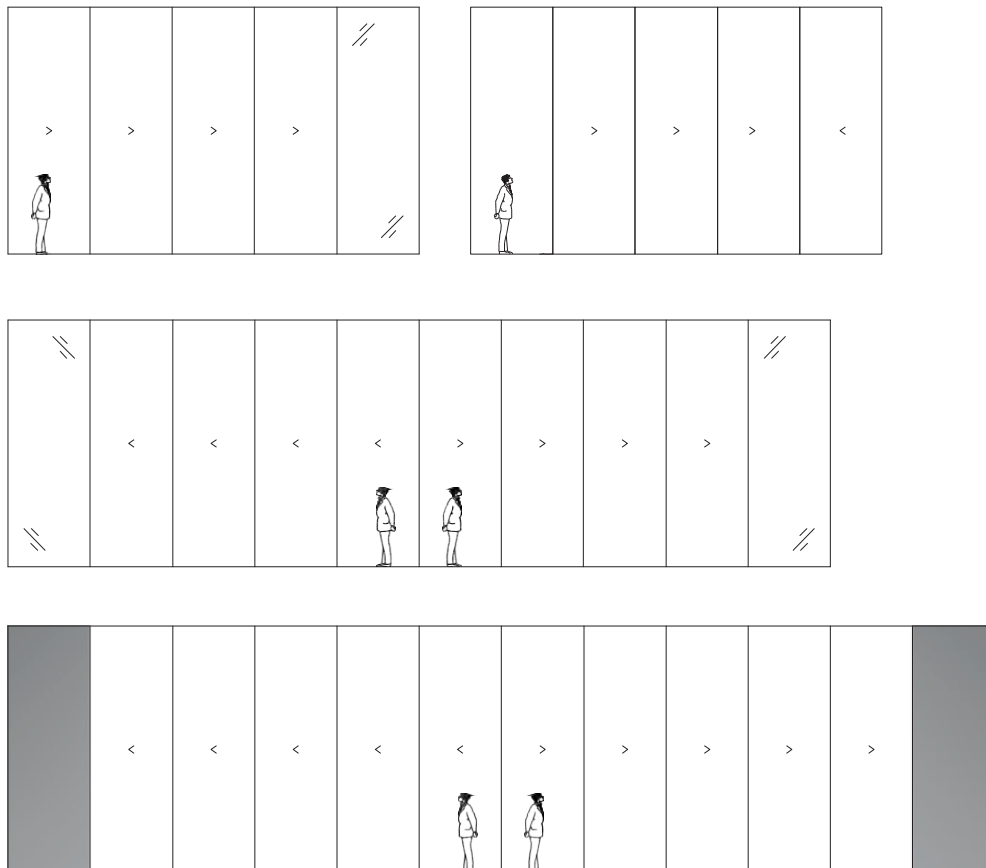## STRAIGHT SOLUTIONS

Three Track

Four Track

ALUMINIUM MINIMALIST SYSTEMS
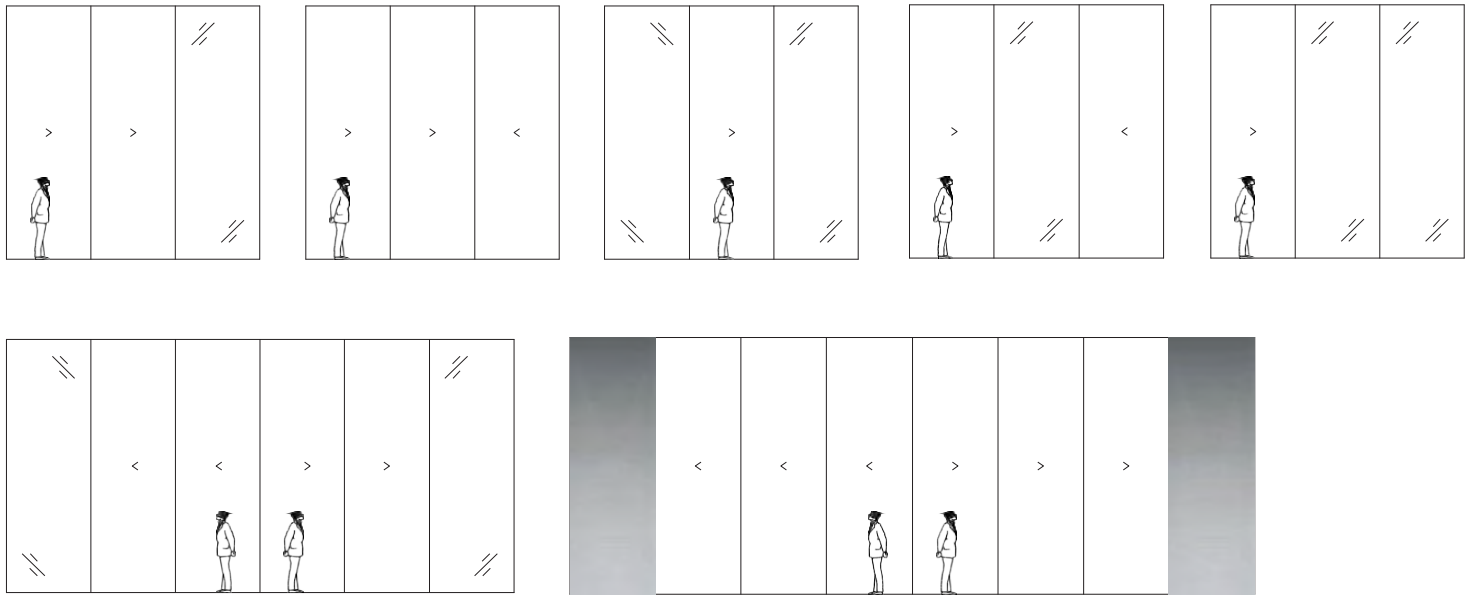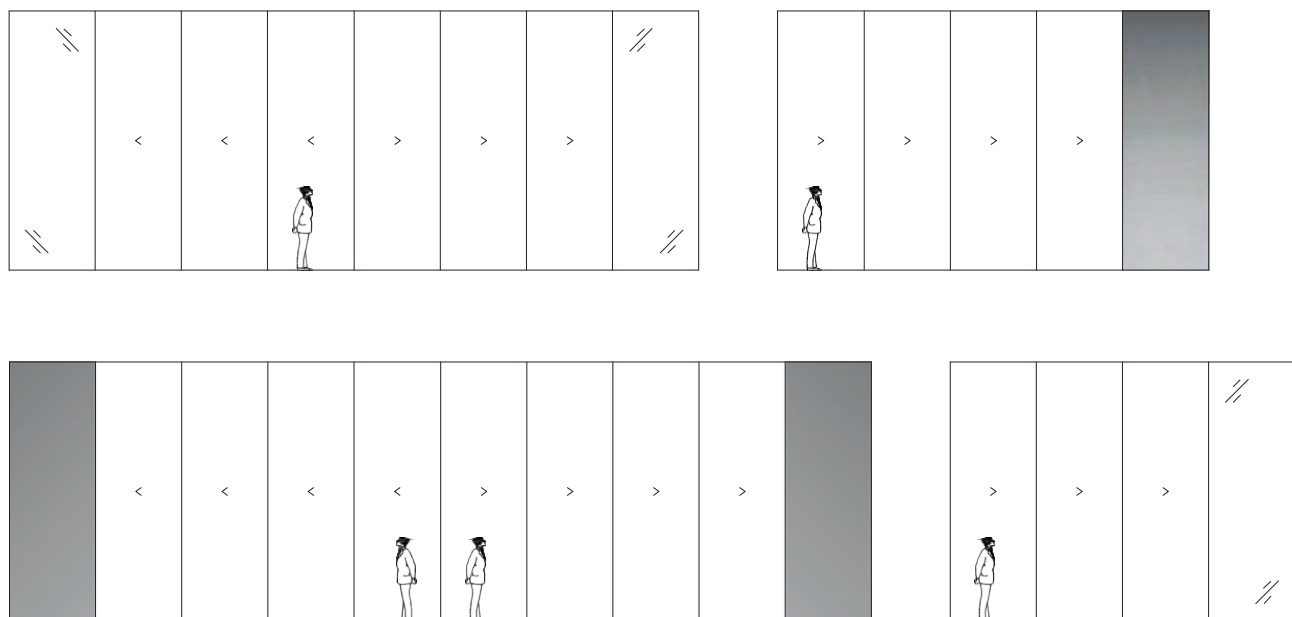
STRAIGHT SOLUTIONS

Three Track

Five Track

ALUMINIUM MINIMALIST SYSTEMS
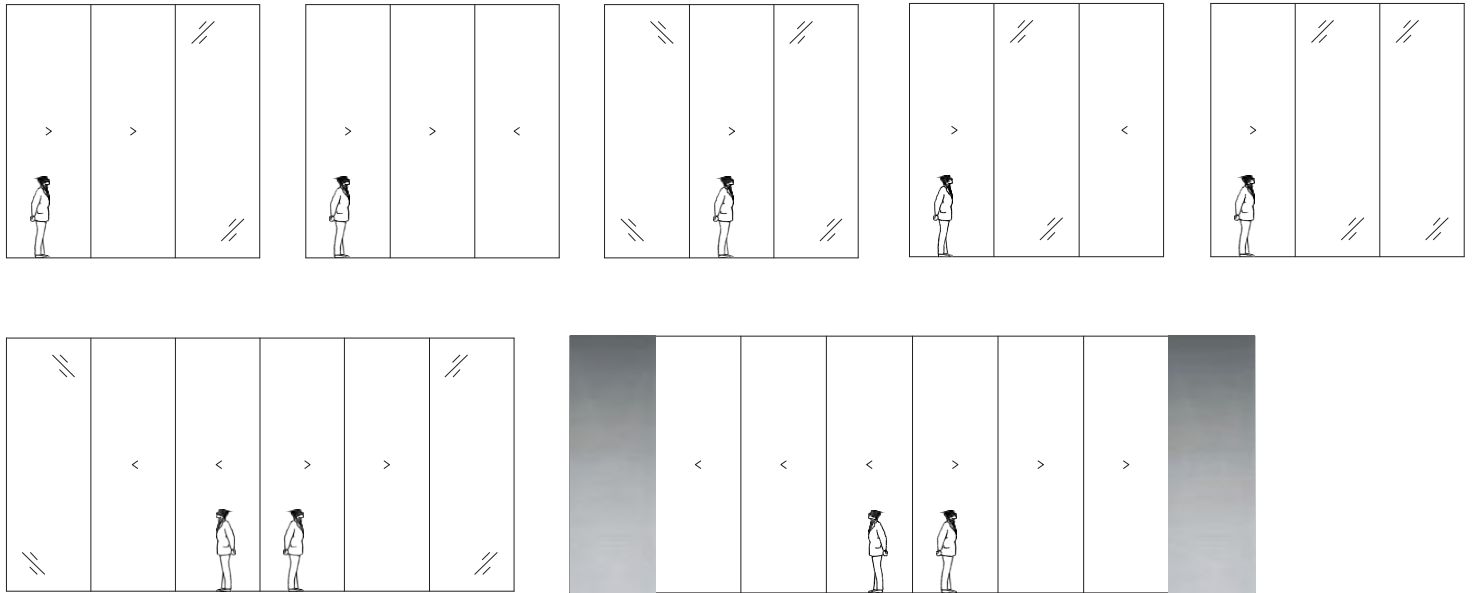
CORNER SOLUTIONS

GUILLOTINE SOLUTIONS
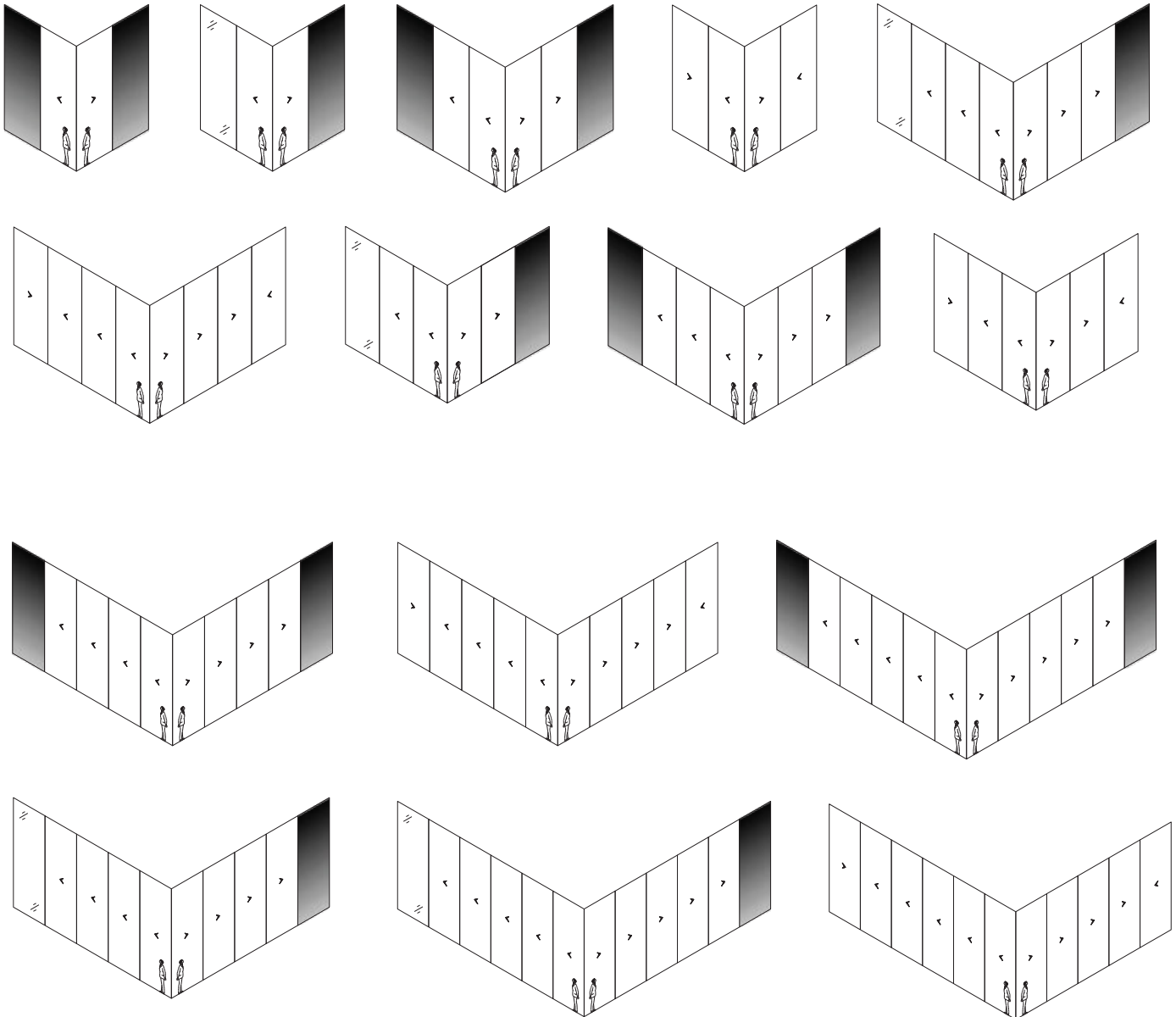
SWIFTROOMS
WINDOWS | DOORS | GLASS ROOMS
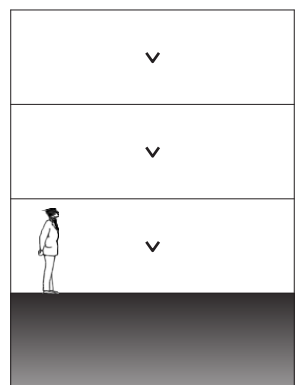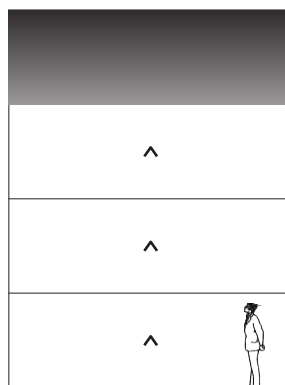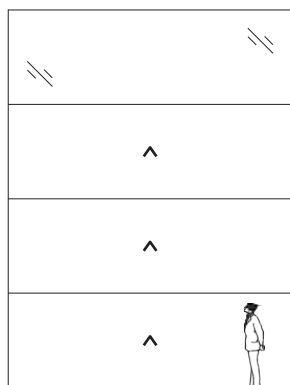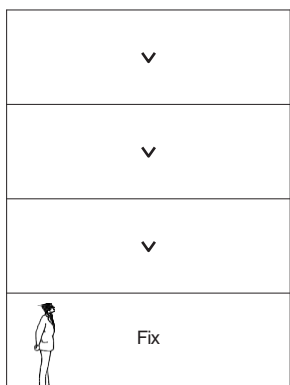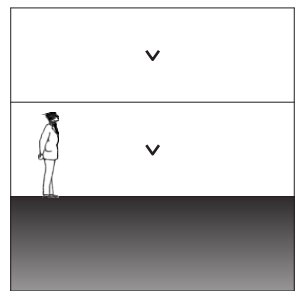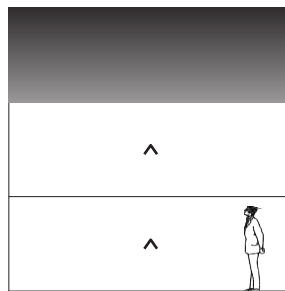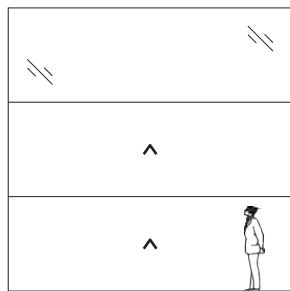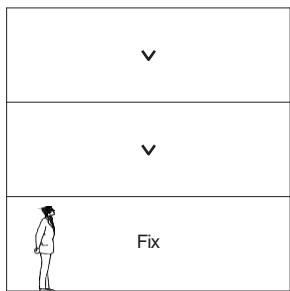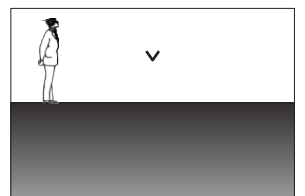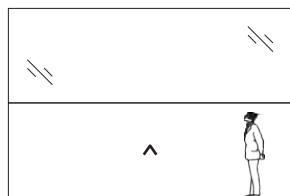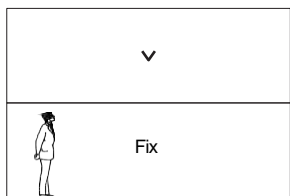
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