ah!60

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introduction

ah!60 is a groundbreaking exterior opening system with unmatched thermal and acoustic performance (up to Minergie-P and Passivhaus), ideal for very cold climates. It also stands out as an intrusion prevention solution for high demanding security specifications (RC4/WK4). It offers great flexibility in the modular composition of openings, including opening corner solutions, pocket sliding configurations, curved layouts, tilted spans and retractable mosquito nets. The alternatives come in a wide range of formats such as sliding and vertical sliding opening units. It allows for the introduction of a wide range of accessories, including heated glass, and it can be completely automated.
ah!60 is a system that allows double glazed surface areas of up to 29m², or triple glazed of up to 19m². Both options use 20mm vertical profiles.

sliding system

	fixed	sliding	invisible	pocket	corner	curved	vertical
monorail	•			•	•	•	
birail	•	•	•	•	•	•	•
multirail	•	•	•	•	•	•	•

main dimensions up to

vertical profile	20mm	
max. leaf height	9000mm	
max. leaf width	9000mm	
max. weight	up to 2.000kg / glass pannel	
max. glazed area	double glazing	up to 29m²
	triple glazing	up to 19m²
glass thickness	60mm	

performance up to

light transmission	up to 98%
thermal coefficient	Uw = 0.708W/m².K (Ug = 0.41W/m².K)
security	RC4 / WK4
sound insulation	44dB
water tightness	Class E900
air tightness	Class 4
wind tightness	Class C5

1 main frame

2 polyamide

3 removable bearing profile

4 central mullion

5 glass
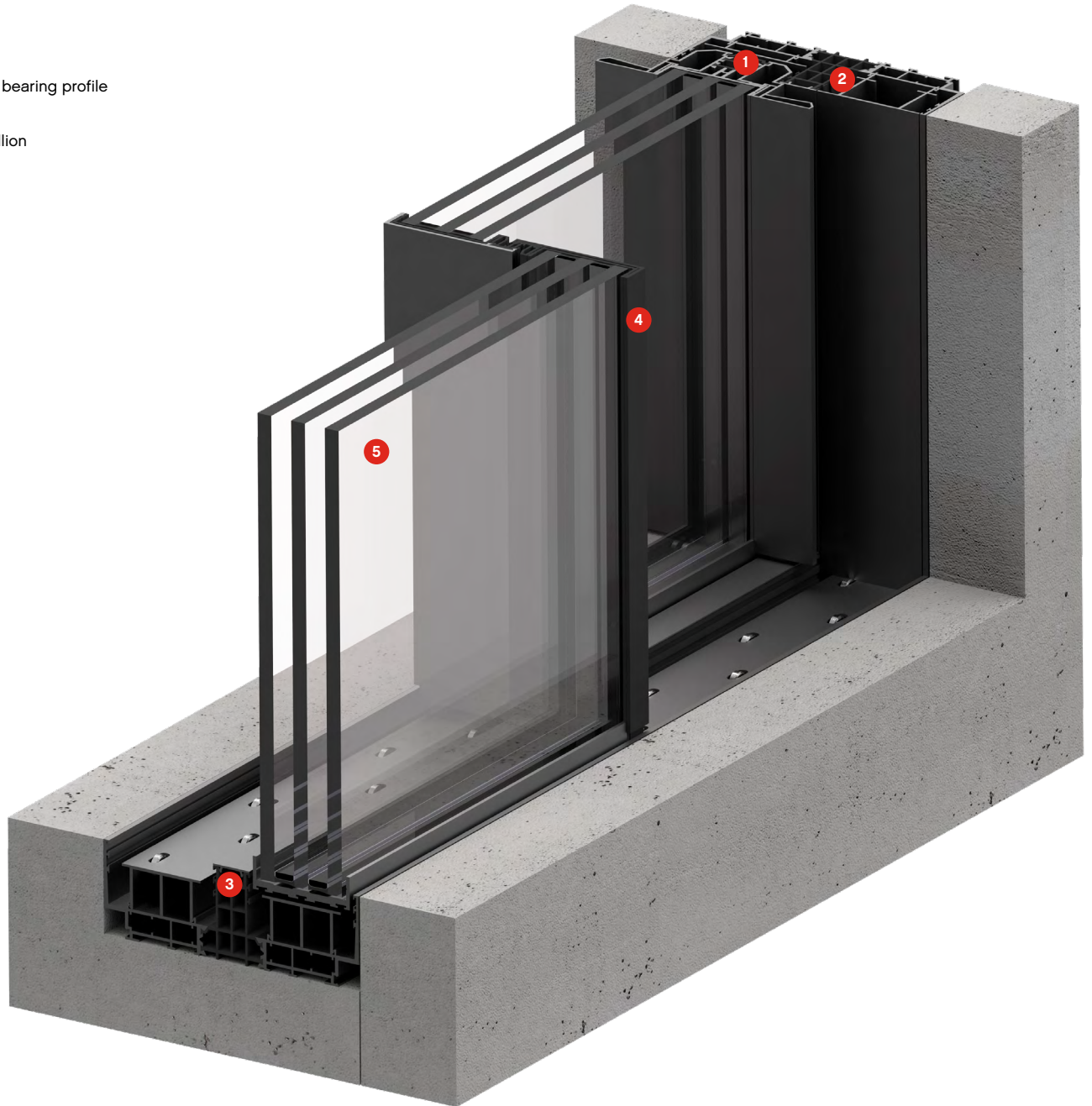
MINERGIE-P®
Mehr Lebensqualität, tiefer Energieverbrauch
Meilleure qualité de vie, faible consommation d'énergie

construction

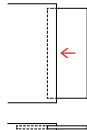| finishes	All **panoramah!®** System series guarantee that the following finishes are carried out by duly certified entities, according to QUALICOAT and QUALANOD directives: Lacquered RAL, Lacquered PVDS, Anodized, Satin, Polished and Repellent.
add-ons	Insect screens / heated glass / intrusion detectors / balustrade / soft close
motorisation	Our motorisation system can be adapted to all sliding or opening systems allowing a full integration with minimum interference in architectural design with a simplified and very quiet opening.

typologies

60
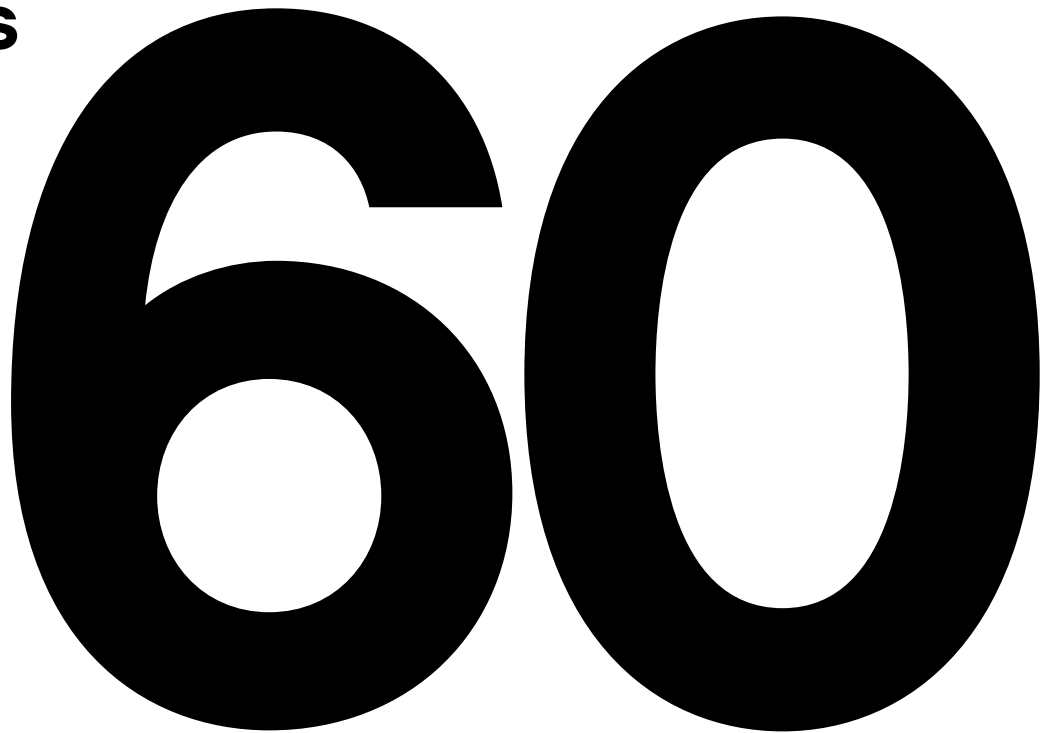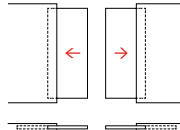
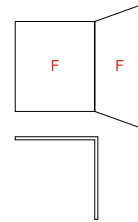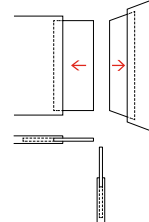## horizontal sliding system > monorail
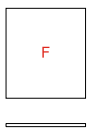
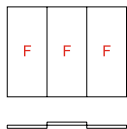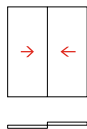| fixed panel	double fixed panel	pocket	double pocket	fixed corner	sliding corner + pocket
F	F F	←	← →	F F	← →
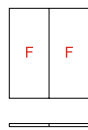
horizontal sliding system > birail
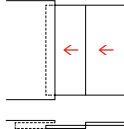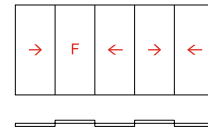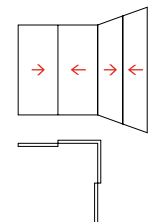
multiple fixed panels	fixed + sliding	double sliding	double pocket	sliding + fixed + multiple sliding	multiple sliding corner [out]
F F F	F ←	→ ←	← ←	→ F ← → ←	→ ← → ←

vertical sliding system > birail
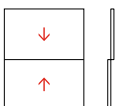
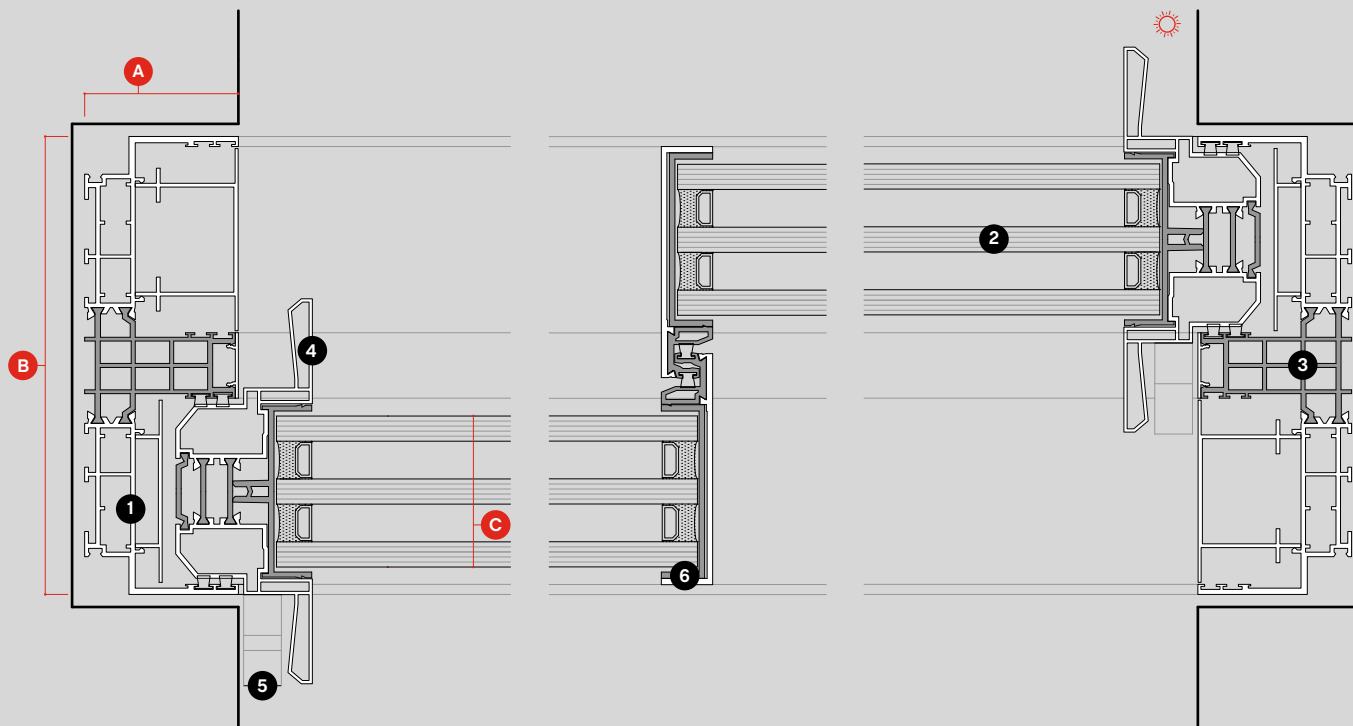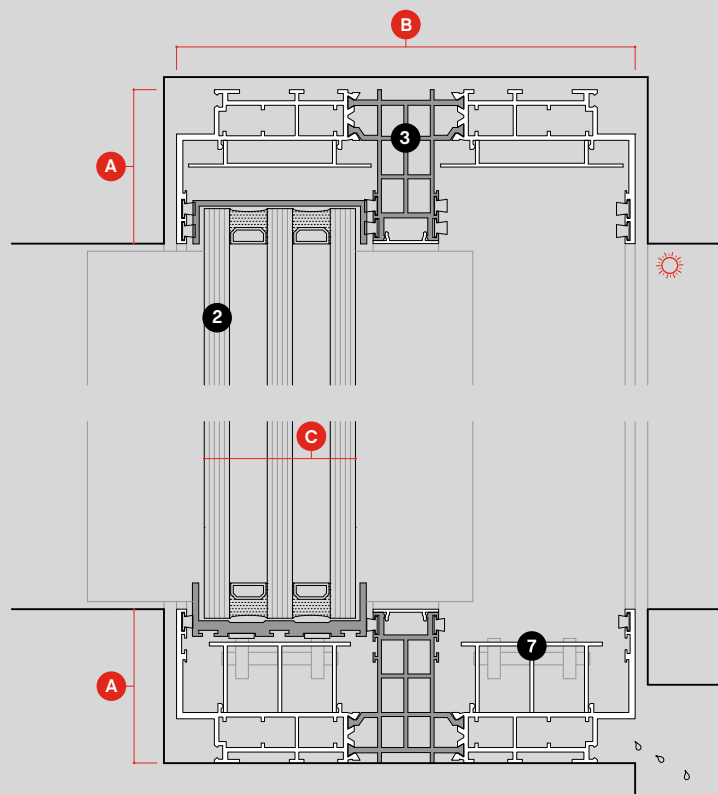| double sliding	fixed + sliding + fixed
↓ / ↑	F / ↑ ↓ / F
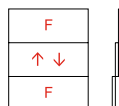
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sliding birail common sections

dimensions and main components

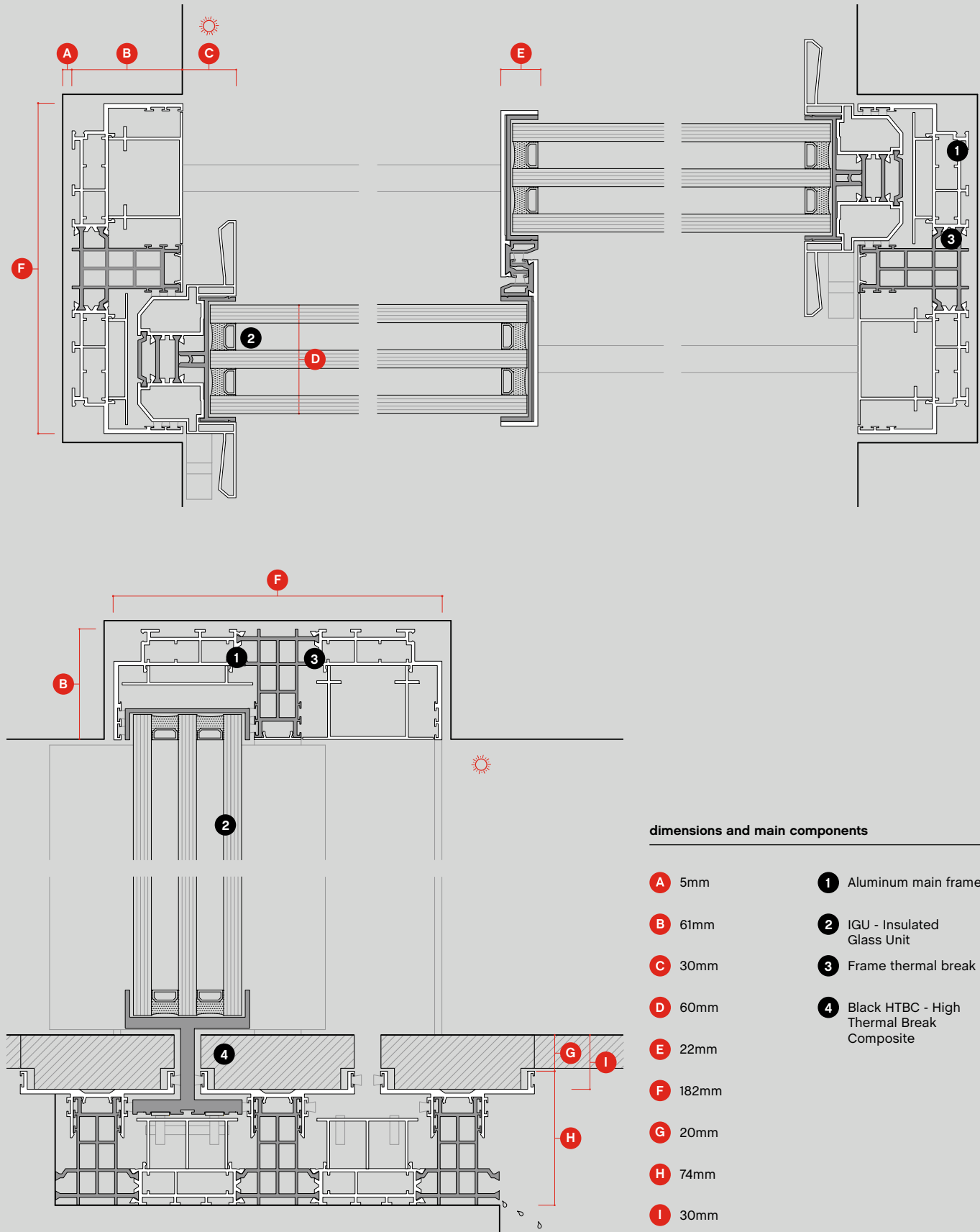**A** 61mm

B 182mm

C 60mm

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1 main frame

2 glass

3 polyamide

4 handle

5 multipoint locking system

6 central mullion

7 removable bearing profile

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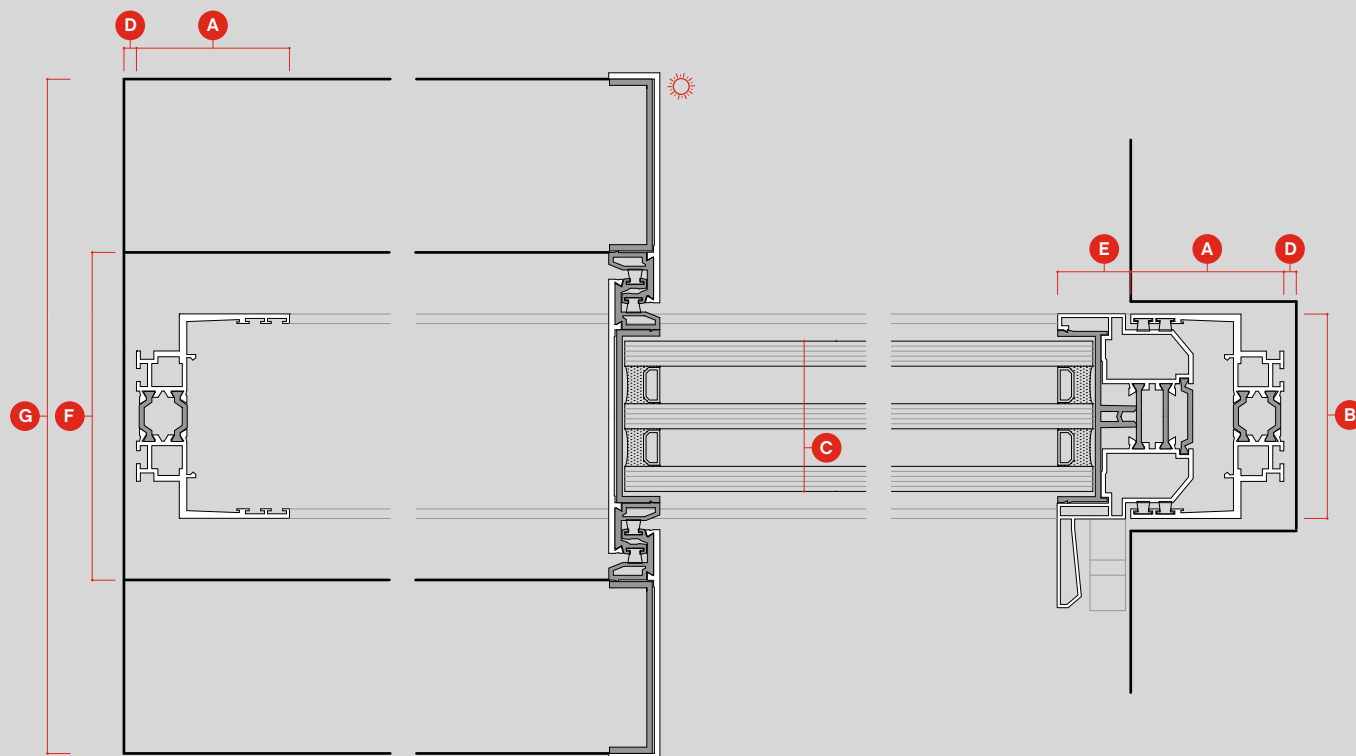invisible frame common sections

dimensions and main components

A	5mm		**1**	Aluminum main frame
B	61mm		**2**	IGU - Insulated Glass Unit
C	30mm		**3**	Frame thermal break
D	60mm		**4**	Black HTBC - High Thermal Break Composite
E	22mm			
F	182mm			
G	20mm			
H	74mm			
I	30mm			

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pocket common sections

dimensions

A	61mm	E	29mm
B	82mm	F	136mm
C	60mm	G	269mm
D	5mm		

pocket

Opening configuration that allows for a complete recessing of the window's moving panels into a wall, ceiling or floor creating the experience of a full flowing space.
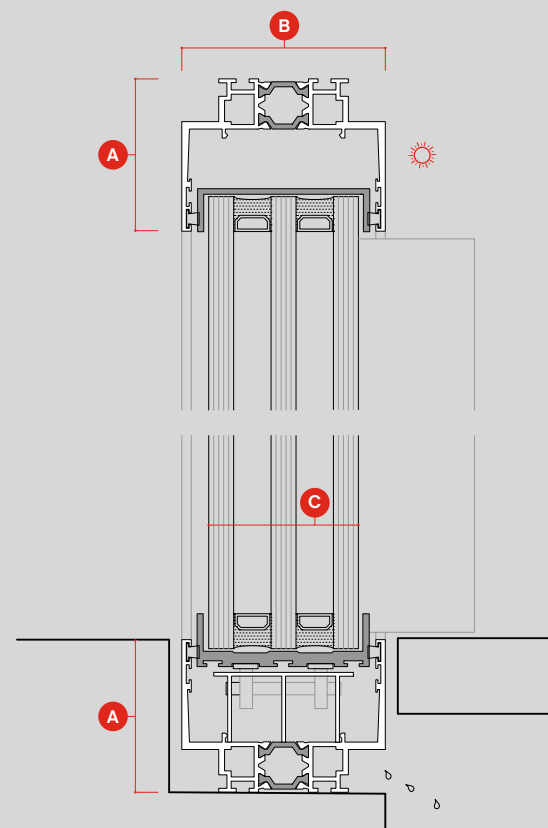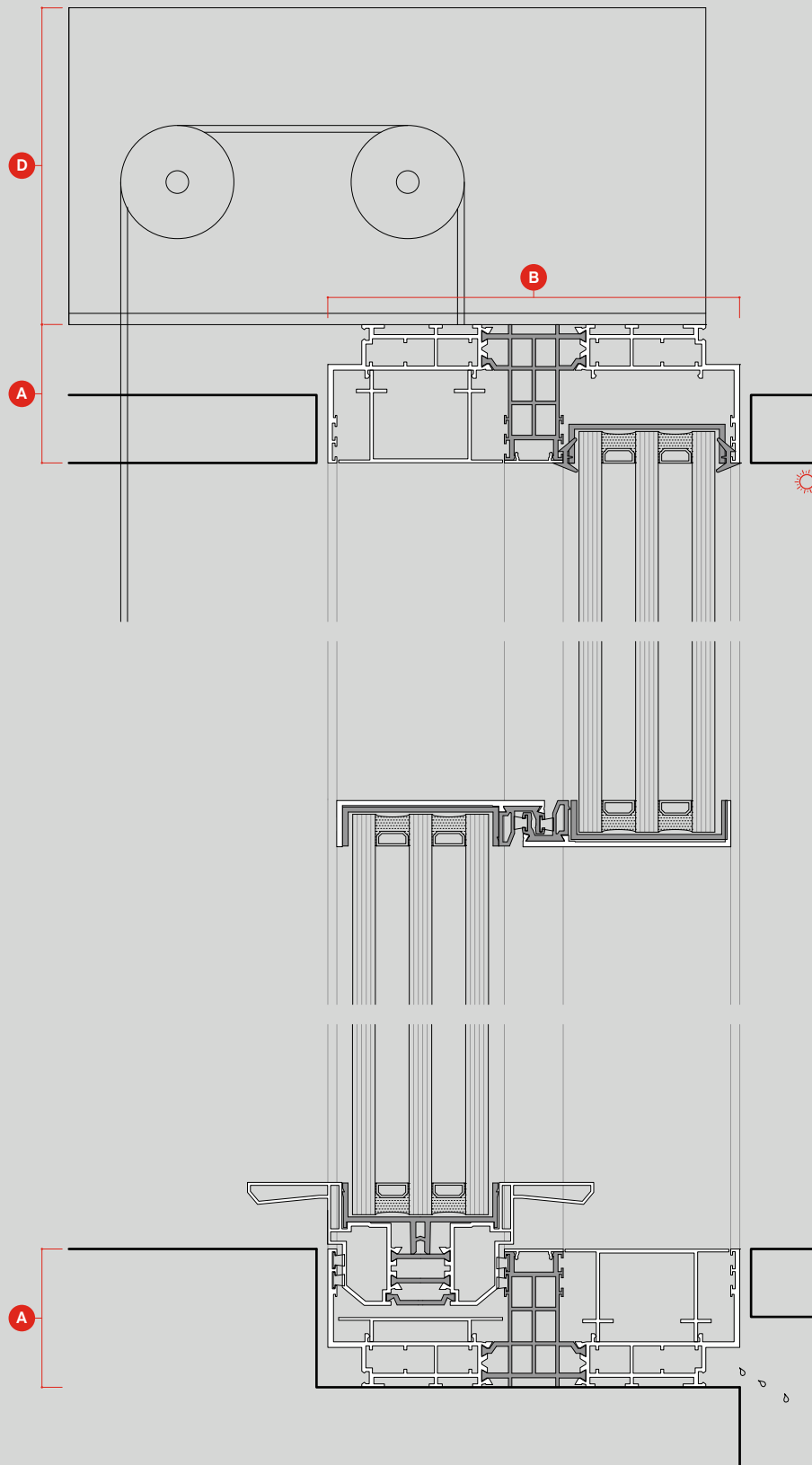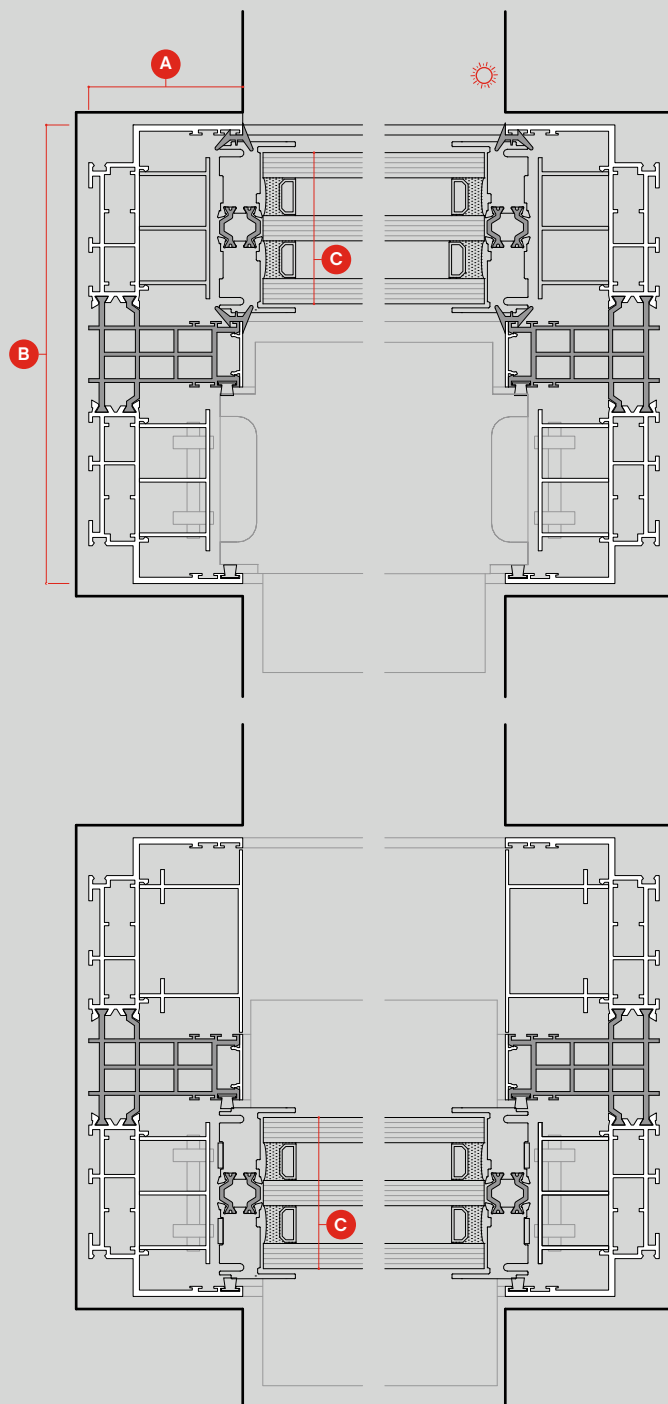
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vertical sliding common sections

D

B

A

A

ah!60

vertical sliding common sections

dimensions

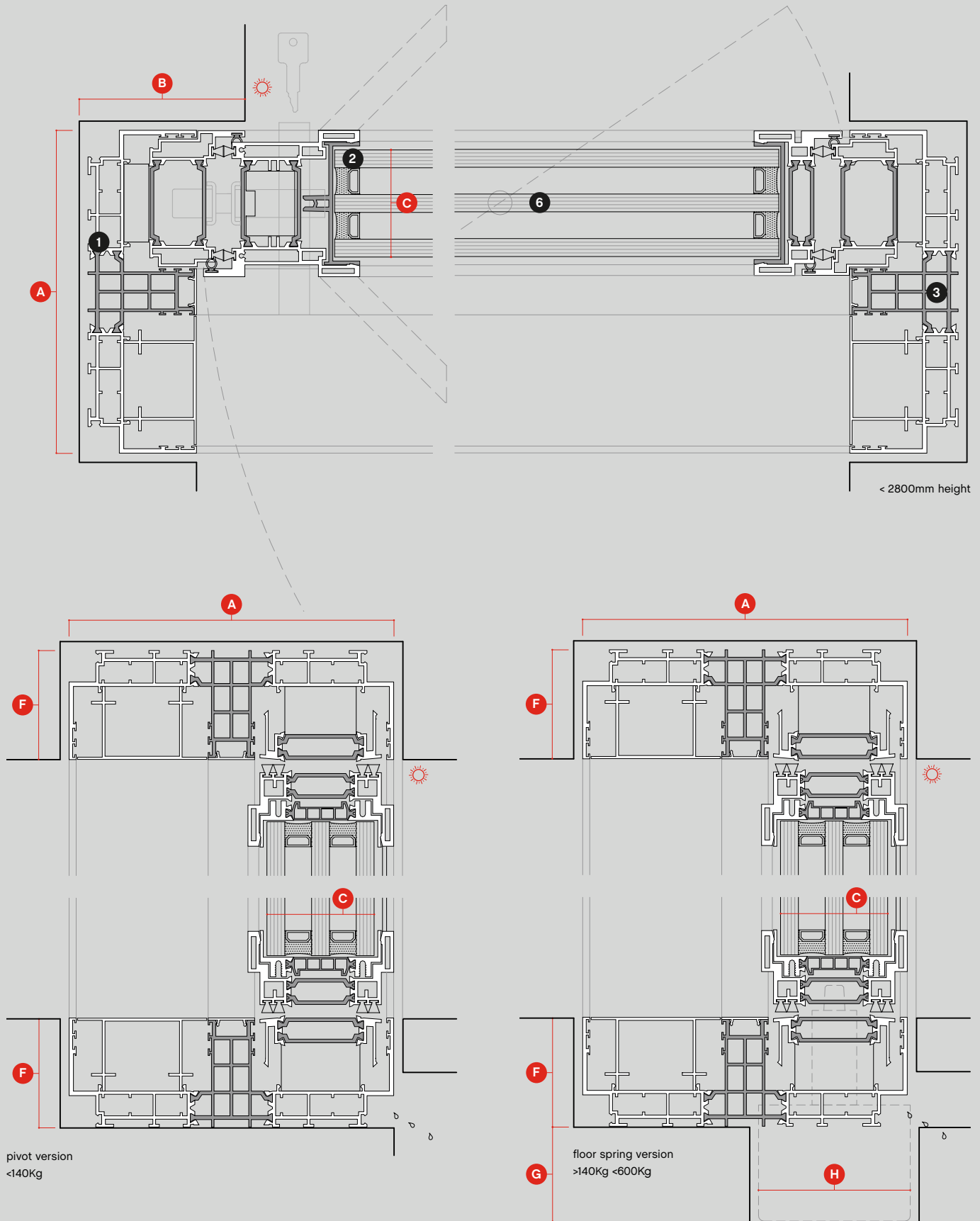|				
A	61mm		**C**	60mm
B	182mm		**D**	150mm

vertical sliding guillotine

This opening system operates by connecting two or more vertical sliding glass panes through an internal counterweight system. Perfectly balanced the glass panes move effortlessly in opposite directions and are freed to cover large surface areas. This allows the use of horizontal aluminium profiles with reduced dimensions and a manual or motorised operation of very large units.
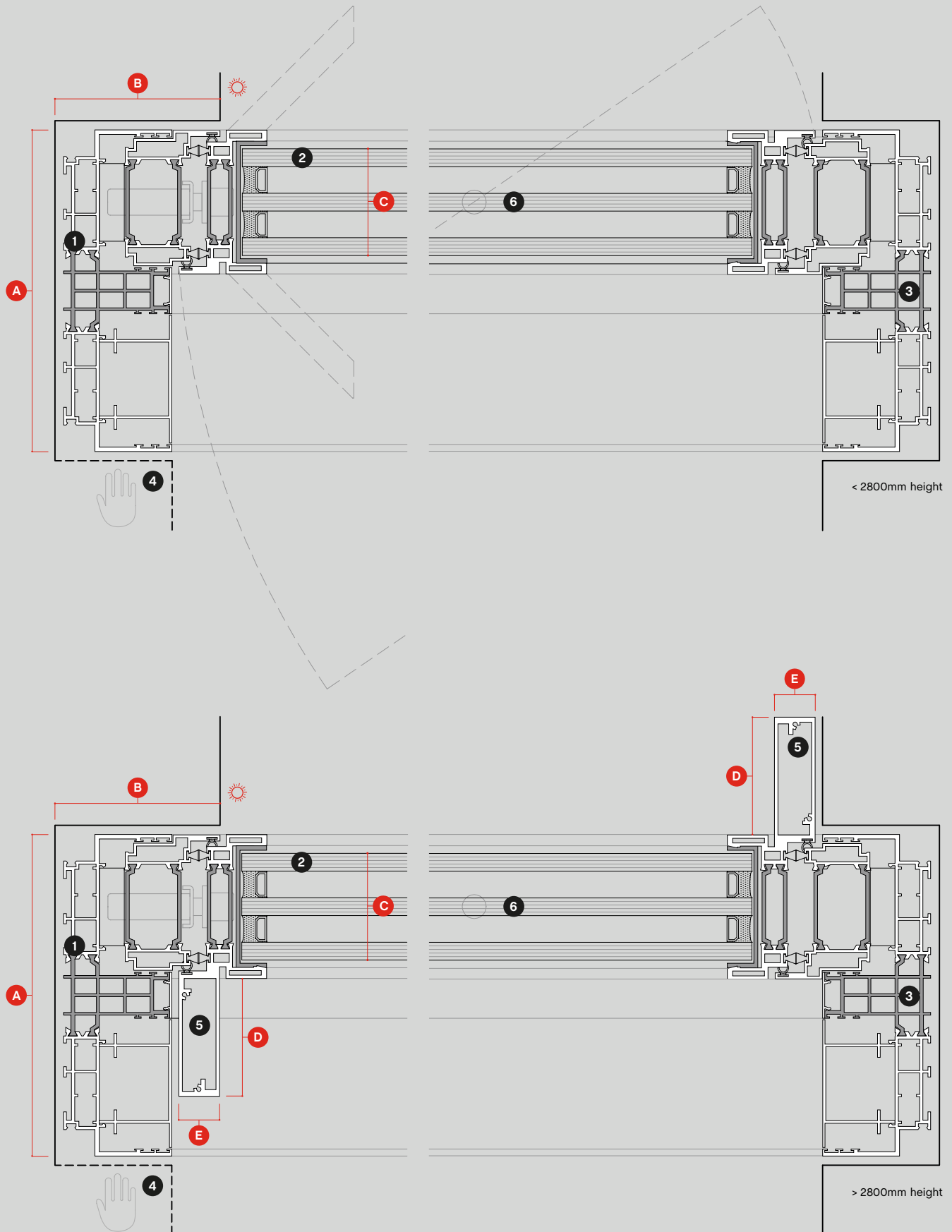
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pivot common sections, manual lock

1:3
scale

B

A

1

2

C

6

< 2800mm height

A

F

C

F

pivot version
<140Kg

A

F

C

F

floor spring version
>140Kg <600Kg
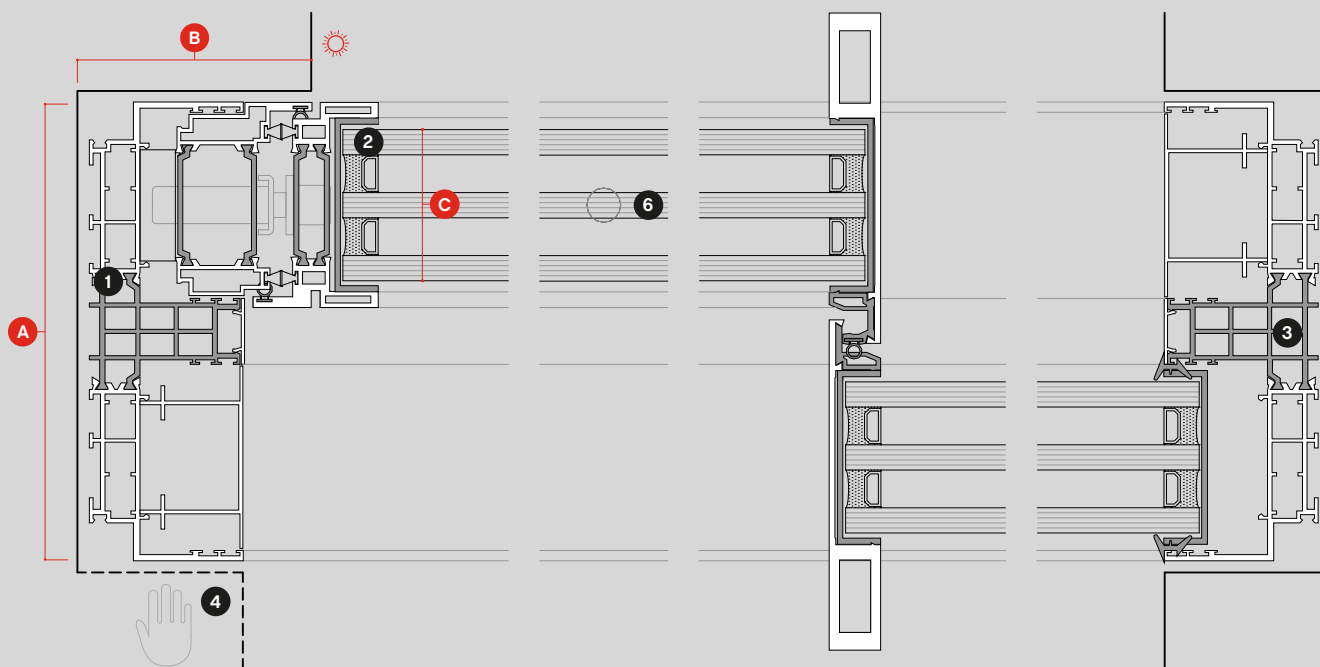
G

H

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pivot common sections, motorized lock

< 2800mm height

> 2800mm height

ah!60 Pivot

pivot common sections, motorized lock

1:3
scale

dimensions

A	182mm	**1**	main frame
B	88mm	**2**	glass
C	60mm	**3**	polyamide
D	67mm	**4**	accessible area
E	23mm	**5**	reinforced profile
F	61mm	**6**	pivot or floor spring
G	53mm		
H	85mm		

handle

finishes: stainless steel and lacquered steel

300mm
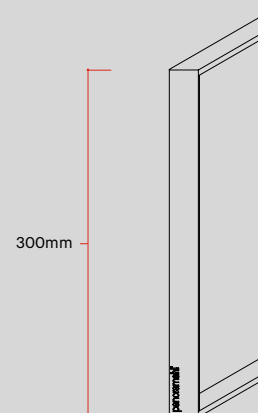
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corner common sections

dimensions

A	61mm		**D**	35mm
B	182mm		**E**	73mm
C	60mm			

full corner opening

Framed corner angle setup that allows two bi-parting units to slide without the need for a fixed vertical upright.
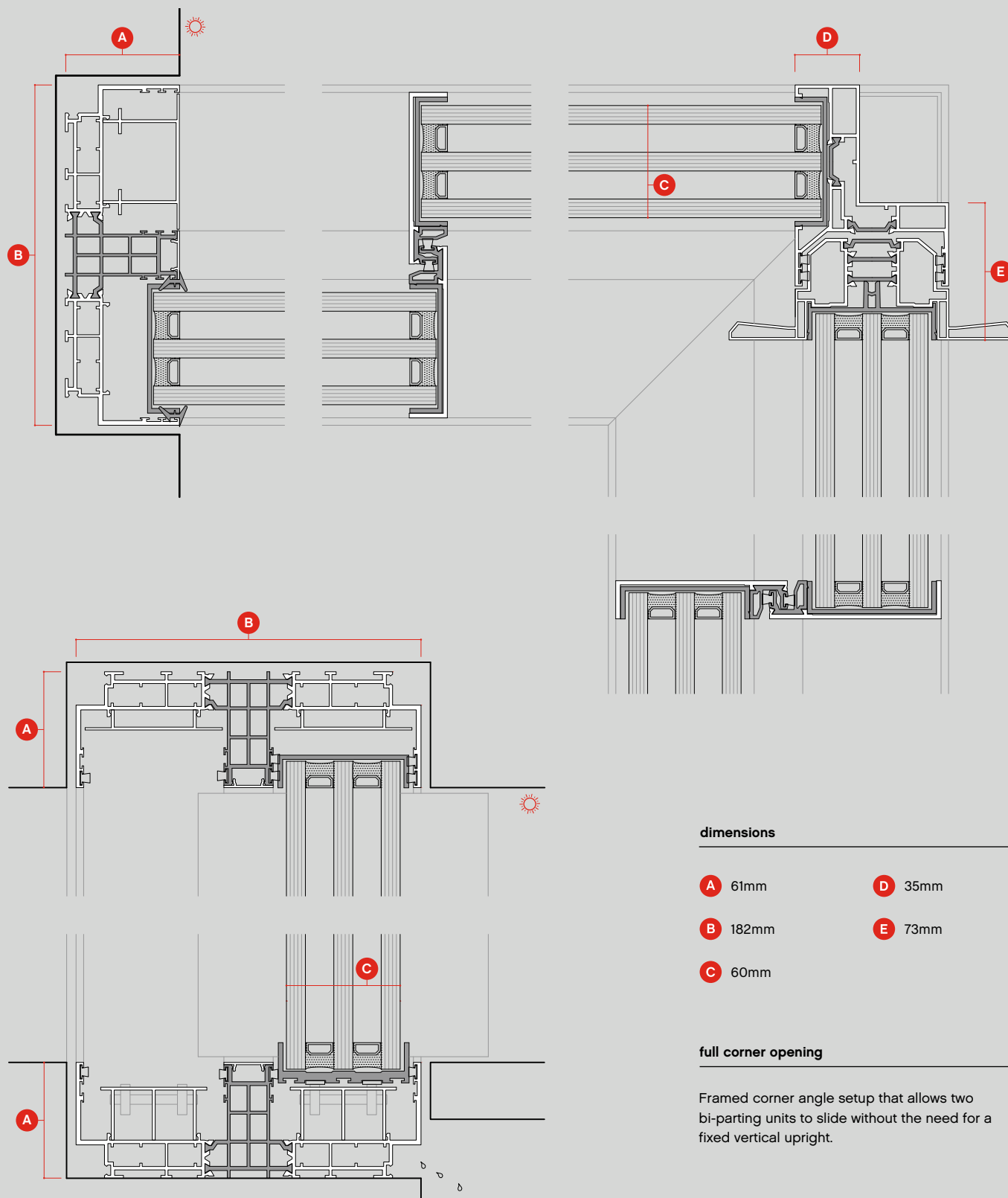
ah!60 motorisation

common sections
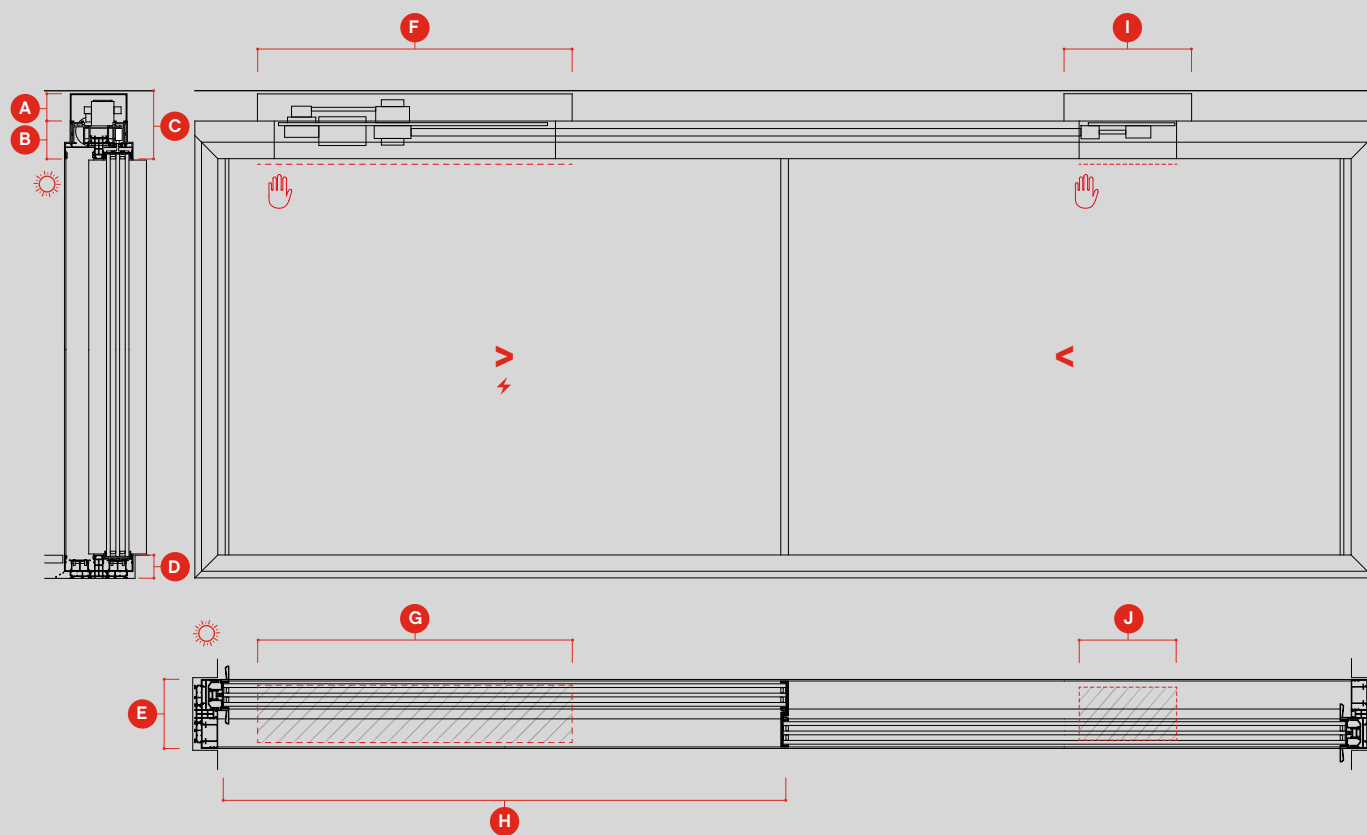
opening typologies
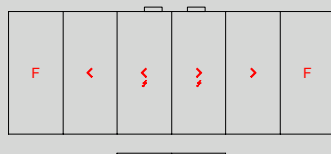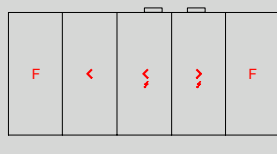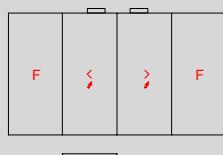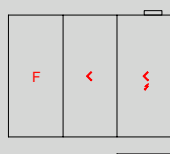
dimensions

A	75mm	F	840mm
B	100mm	G	750mm
C	180mm	H	≥1100mm
D	60mm	I	340mm
E	182mm	J	260mm

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GM Architectes Associés
© Julia Wimmerlin

Villa D | Vaud, Switzerland
Grégory GARCIA Architecte DPLG
© Adrien Barakat

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