

# SAPA SLIDING DOORS

2160 / 2160S / 2160S XS



**sapa:**

By  Hydro

**SAPA LIFT-AND-SLIDE DOOR 2160 / 2160S / 2160S XS  
HIGH INSULATED SLIDING DOOR  
WITH A SLEEK DESIGN**





## **HIGH-END LIFT-AND-SLIDE DOORS FOR LARGE GLASS SURFACES.**

A generation of durable lift-and-slide doors with a compact profile design. The profiles are coupled with 50 mm glass fibre reinforced polyamide strips, which reduce thermal conduction. These polyamide strips are specially designed in order to improve the thermal values.

The system is designed to be compatible with other SAPA products such as our curtain walls and glass partitions.

## **LOW CARBON FOOTPRINT**

SAPA 2160 is made from Hydro CIRCAL, recycled low carbon aluminium. That means it's high quality aluminium made with a minimum of 75% recycled end-of-life aluminium (post-consumer scrap). Hydro CIRCAL has a carbon footprint of 2.3 kg of CO<sub>2</sub>/kg of aluminium on average.





SAPA 2160

# SAPA LIFT-AND-SLIDE DOOR 2160 / 2160S / 2160S XS

/ IDEAL FOR LARGE OPENINGS IN EXTERIOR WALLS.

## COMPACT PROFILE DESIGN

The sliding door belongs to a new generation of sliding systems thanks to technical innovation and well-considered design. The Lift-and-Slide Door is made of insulated aluminum profiles with a frame depth of 160 mm and a door leaf depth of 70 mm. The insulation consists of 50 mm wide glass fibre reinforced polyamide strips.

## USER-FRIENDLY HANDLING

Strong aluminium profiles and nylon wheels permit large doors, up to 3.2 m wide. The use of stainless steel rails and large corrosion-resistant rollers provides good durability and enables doors to slide smoothly and quietly. When the handle is raised, the door can be parked in any position. 2160 can also be equipped with a locking feature to allow nighttime ventilation.

The threshold is designed to be integrated into the floor.

## HIGH PERFORMANCE

The profiles are coupled with 50 mm glass fibre reinforced polyamide strips, which reduce thermal conduction. These polyamide strips are specially designed in order to improve the thermal values, without adding extra internal inserts in the profiles. The bigger cavities between profiles are insulated with customised PE-strips. The result is that SAPA 2160 achieves a high thermal performance

level, leading to lower total energy consumption and a reduced environmental impact.

The system accommodates glazing up to 53 mm.

EPDM gaskets guarantee a high level of airtightness and watertightness. Two levels of drainage.

## DESIGN

Concealed attachments, specially designed end pieces and a slim door leaf profile give 2160 a harmonious design. Uniform handles complement the exclusive look.

## SAPA 2160

SAPA 2160 allow a maximum width of 3200 mm and door leaf weight up to 400 kg.

## SAPA 2160S

2160S lift-and sliding door is designed to offer a high performing sliding system with an attractive, slim sightline.

## SAPA 2160S XS

2160S XS is based on 2610 S. 2160S XS offers a bigger glass surface and transparency through reducing sightline to 36 mm compared with 92 mm for 2160S.



# SAPA 2160S XS





# SAPA 2160



126 mm



149 mm

159 mm

# SAPA 2160S



92 mm



133 mm

143 mm

# SAPA 2160S XS



36 mm

2160S XS offers a bigger glass surface and transparency through reducing sightline to 36 mm compared with 92 mm for 2160S.



133 mm

143 mm



# SAPA LIFT-AND-SLIDE DOORS 2160 / 2160S / 2160S XS

/ AN EXCELLENT CHOICE FOR NEW BUILDS OR CONVERSIONS AND EXTENSIONS.



## SAPA 2160

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Door leaf max dimension: W 3200 x H 3250 mm

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Profile depth door leaf/frame: 70/160 2-rail

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Interlockprofile door leaf: 126 mm

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Door leaf max weight: 400 kg

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Glass thickness: 20 - 53 mm

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Variants: Single- or double-opening

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Thermal values in 3 levels: BASIC, SH och SHI

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Fitting type: Lift-and-slide with lockable espagnolette

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Handle: Aluminium

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## SAPA 2160S

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Door leaf max dimension: W 3200 x H 2950 mm

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Profile depth door leaf/frame: 70/160 2-rail

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Interlockprofile door leaf: 92 mm

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Door leaf max weight: 330 kg

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Glass thickness: 20 - 53 mm

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Variants: Single- or double-opening

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Thermal values in 3 levels: BASIC, SH och SHI

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Fitting type: Lift-and-slide with lockable espagnolette

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Handle: Aluminium

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## SAPA 2160S XS

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Door leaf max dimension: W 3200 x H 2600 mm

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Profile depth door leaf/frame: 70/160 2-rail

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Interlockprofile door leaf: 36 mm

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Door leaf max weight: 330 kg

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Glass thickness: 23 - 50 mm

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Variants: Single-opening

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Thermal values in 3 levels: BASIC, SH och SHI

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Fitting type: Lift-and-slide with lockable espagnolette

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Handle: Aluminium

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# EASY HANDLING FOR GOOD COMFORT

/ IMPRESSIVE STRENGTH AND DURABILITY



## ENHANCED PERFORMANCE

- Perfect water evacuation is ensured via drainage holes and integrated sealings
- Separate drainage: two levels of drainage
- EPDM-gaskets.
- Very efficient gasket sealings in central joint of sashes
- Special profile for dual metal solution

	Air Tightness EN 12207	Water Tightness EN 12208
<b>2160</b>	Class 4	Class E1350
<b>2160S</b>	Class 4	Class E900
<b>2160S XS</b>	Class 4	Class 9A



## DESIGNED FOR DURABILITY

- A combination of strong profiles, stainless steel rails and polyamide rollers with needle bearings allows the lift-and-slide door to be used for large glazing areas without external reinforcement.
- The use of a stainless steel rail ensures the smooth movement of the vents and avoids surface finishing peeling off.
- Polyamide bottom rollers can take up to 300 kg for each vent and still ensure a smooth operation.
- The vent profiles with a building depth of 70 mm accommodate triple and double glass options.

	Max weight 2 wheels	Max weight 4 wheels
<b>2160</b>	300 kg	400 kg
<b>2160S</b>	250 kg	330 kg
<b>2160S XS</b>	250 kg	330 kg



# FITTINGS AND CONFIGURATIONS

## / ELEGANT HANDLES IN TWO MODELS

### STANDARD FITTINGS, FINISHED IN ALUMINIUM OR WHITE



Lifting handle, inside  
Art. no ZB 0024



Lifting handle, inside  
Art. nr ZB 0024  
Pull handle, outside



Lifting handle for cylinder lock, inside  
Art. no ZB 0025



Lifting handle for cylinder lock  
Art. no ZB 0025 inside  
Art. no ZB 0027 outside



Lifting handle for cylinder lock, inside  
Art. no ZB 0025  
Pull handle, outside  
Art. no ZB 0028

### S-LINE HARMONY FITTINGS, FINISHED IN TITANIUM OR BLACK PEARL



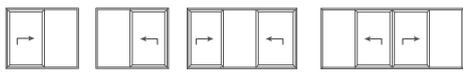
Lifting handle  
Art. no HLH 301  
Pull handle, outside  
Art. no HLH 304



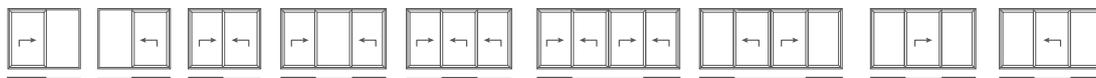
Lifting handle for cylinder lock  
Art. no HLH 302  
Pull handle, outside  
Art. no HLH 304

### CONFIGURATIONS

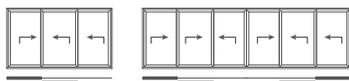
#### Monorail 2160 / 2160S / 2160S XS



#### Duo-Rail 2160 / 2160S / 2160S XS



#### 3-rail 2160 / 2160S





SAPA 2160

# CHARACTERISTICS

DIMENSIONS	2160	2160S	2160S XS
Min. sightline monorail (fixed glazing), Top/Bottom/Side	53/53/53 mm	53/53/53 mm	53/53/53 mm
Min. sightline monorail (sliding part), Top/Bottom/Side	143/153/153 mm	127/137/137 mm	127/137/137 mm
Min. sightline 2-rail (fixed or sliding), Top/Bottom/Side	149/159/159 mm	133/143/143 mm	133/143/143 mm
Min. sightline interlock section in vent	126 mm	92 mm	36 mm
Profile depth, vent	70 mm	70 mm	70 mm
Profile depth, 2-rail	160 mm	160 mm	160 mm
Profile depth, 3-rail	250 mm	250 mm	-
Max vent dimensions - hardware related* (W x H) weight limit	3200 x 3250 mm weight limit = 400 kg	3200 x 2900 mm weight limit = 330 kg	3200 x 2600 mm weight limit = 330 kg
Max recommended vent dimensions (W x H) considering normal windload	3200 x 2700	2800 x 2500 mm	2800 x 2500 mm
Min vent dimensions (W x H)	720 x 1303 mm	660 x 1130 mm	660 x 1130 mm

GLAZING	2160	2160S	2160S XS
Infill thickness sliding parts 2- and 3-rail	20-53 mm	20-53 mm	23-50 mm

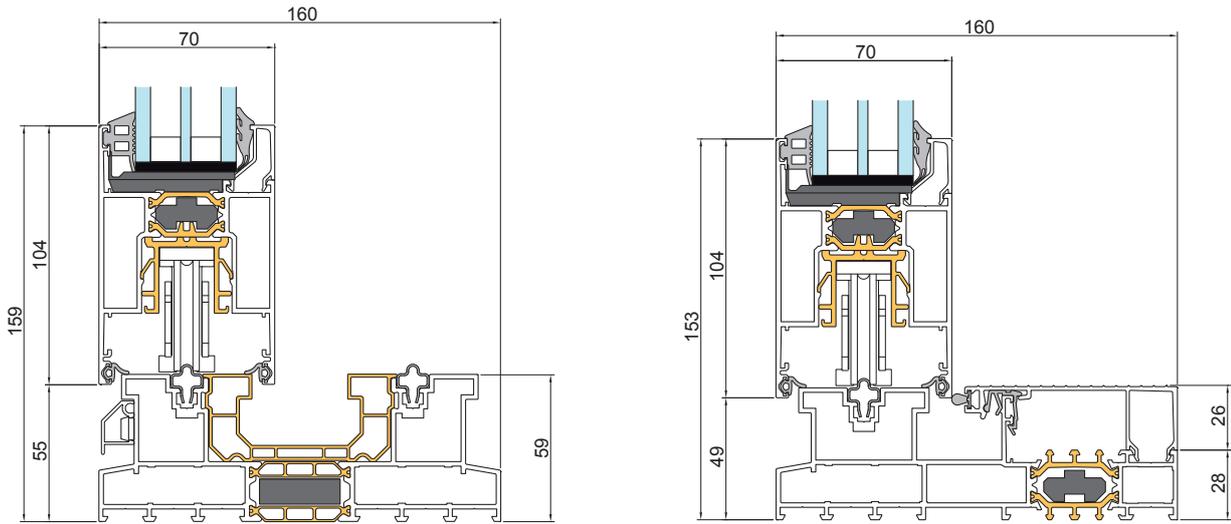
PERFORMANCES	2160	2160S	2160S XS	
Air permeability	EN 12207	Class 4 – 600 Pa		
Watertightness	EN 12208	Class E1350 - 1350 Pa	Class E900 – 900 Pa	Class 9A - 600 Pa
Wind resistance	EN 12210	C3 – 1200 Pa	C3 – 1200 Pa	C3 – 1200 Pa

THERMAL BREAK	
Thermal break	50 mm PA 6,6 GF25 (30 eller 35 mm in the vent)

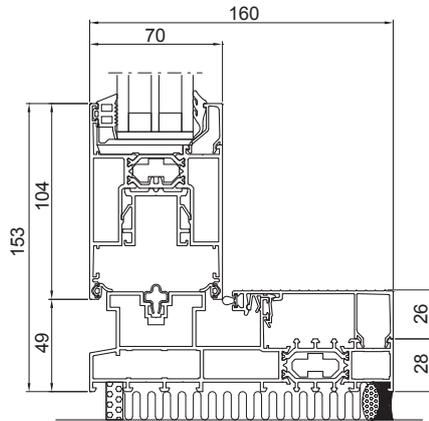
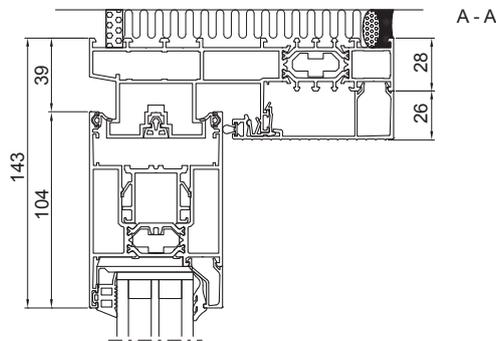
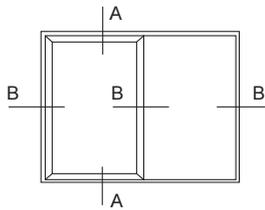
U-VALUE	U value of glass $U_g$ W/m <sup>2</sup> K (middle point) Warm edge distance strip		
Lift-sliding door, width x height mm 2160 / 2160S / 2160S SX, 2-rail, example			
width x height mm	$U_g = 0,6$	$U_g = 0,9$	$U_g = 1,1$
3000 x 2300	1,3	1,5	1,7
4000 x 2300	1,2	1,4	1,6
5000 x 2300	1,1	1,4	1,6

\*This information is only an indication. For more information, please consult your local SAPA office.

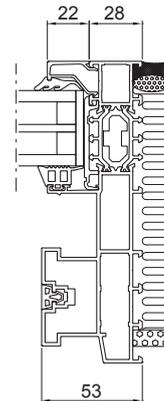
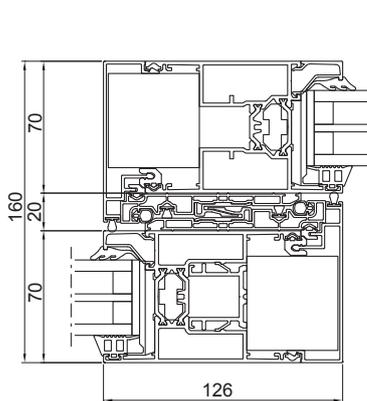
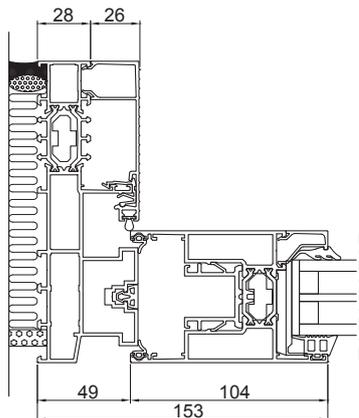
SAPA 2160 -DETAIL DRAWINGS 2-RAIL AND MONORAIL



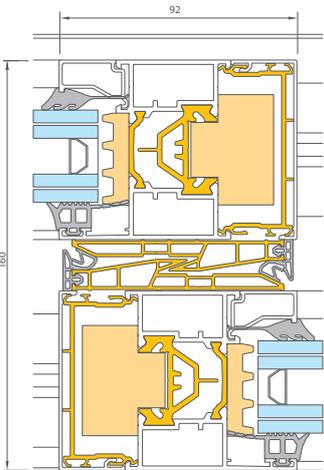
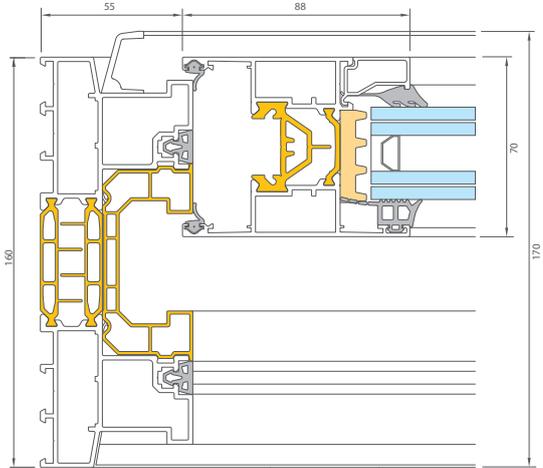
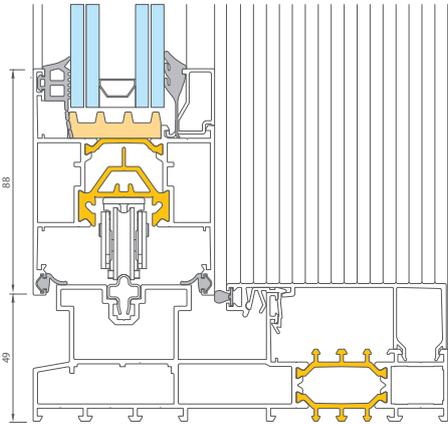
SAPA 2160 -DETAIL DRAWINGS



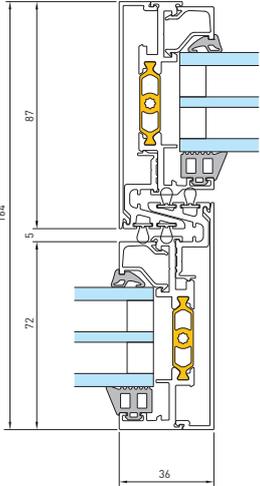
B - B



SAPA 2160 S / 2160S XS - DETAIL DRAWINGS



SAPA 2160S INTERLOCKPROFILE



SAPA 2160S XS INTERLOCKPROFILE

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By  **Hydro**

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