

CONFORT 160S

LIFT-SLIDE AND
SLIDE SYSTEM



TECHNAL®

By  Hydro



CONFORT 160S

/ HIGH-END LIFT AND SLIDE
DOORS THAT COMBINE A
MINIMAL SIGHTLINE WITH HIGH
THERMAL PERFORMANCE

The C160S is an optimised, high performing, thermally insulated lift and slide door with a slim sightline combining highly attractive aesthetics with remarkable energy efficiency. The C160S door belongs to an entirely new generation of sliding systems based on technical innovation and well-considered design.

ADVANCED ENERGY SAVING ON A MODULAR BASIS

- C160S 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.
- Larger cavities between profiles are insulated with customised PE strips providing high thermal performance levels and improved insulation values, contributing to lower total energy consumption and a reduced environmental impact.
- The system accommodates glazing up to 53 mm thickness



EXCEPTIONAL AESTHETICS



ATTRACTIVE DESIGN

- C160S offers a high performing sliding system with an attractive, slim sightline
- The frame allows the internal floor finishes to be flush with the inner frame avoiding thresholds
- A range of supplementary profiles offer improved building integration
- Attention to finishing details raise the C160S above the norm
- The reversed locking principle for lift-slide comes with elegant locking plates on the frame side, avoiding unattractive and protruding locking bolts
- Interlock section with patented design gives minimal disruption of the glazed area
- Stylish handles, functional yet unobtrusive, complete the high standard finish

FINISHES

- Over 400 powder coated paint colours in matt, gloss or satin.
- Anodised finish is also available as an option
- Accessories can be supplied in corresponding colours to match the profiles
- The polyamide thermal break allows for dual colour finishes. As a result, the exterior building requirements do not need to affect the interior design choices

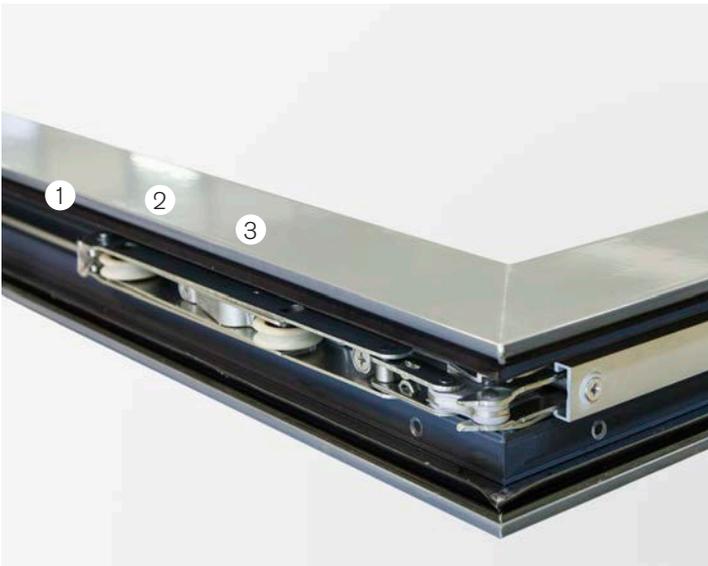
ABOVE AND BEYOND PERFORMANCE



ENHANCED PERFORMANCE

- Water evacuation is ensured via drainage holes and integrated sealings
- Separate drainage: two levels of drainage
- EPDM gaskets for the lift-slide version
- Gasket sealing in central joint of sashes ensures a draught free door
- Special profile for bi-metal solution
- Weather resistance lift-slide:

4 (EN 12207)	E900 (EN 12208)	C3 (EN 12210)
600pa*	900pa*	1800pa*



IMPRESSIVE LIFT/SLIDE STRENGTH AND DURABILITY

- A combination of strong profiles, stainless steel rails and polyamide rollers with needle bearings allows C160S to be used for glazing areas up to 2.8 metre high
- The use of a stainless steel rail ensures the smooth movement of the vents and avoids surface finishing damage
- Polyamide bottom rollers can take up to 330 kg for each vent and still ensure a smooth operation.
- The vent profiles with a building depth of 70 mm accommodate glazing up to 53 mm, so triple and laminated glass options are possible.

1. Brushes keep the rail clean.
2. Synthetic wheels with steel needle bearings
3. Each roller rests on a support (liftslide) to take the load off the wheels in closed position.



INNOVATIVE CLOSURE

The reversed locking principle places the strikes on the outer frame and the bolts on the vent, thus protecting the operator from risk of snagging with bolts during use.

SECURITY

Multipoint locking is standard on the C160S system with various handle and cylinder arrangements available. PAS 24 certified variants are available on 2 Rail options.

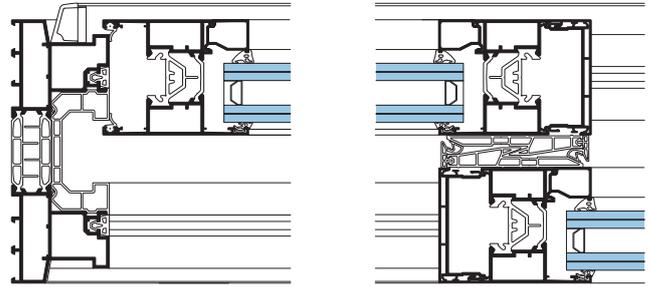
* Performance indication only. For more information, please refer to product manual



THERMAL VALUES IN THREE LEVELS

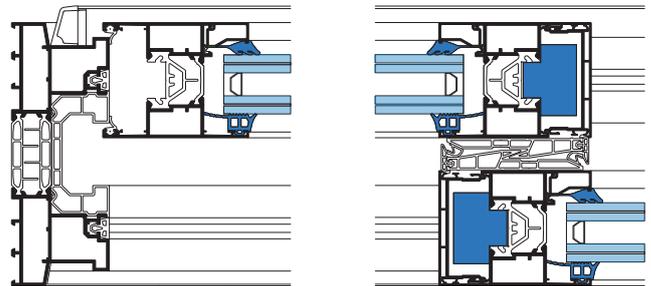
C160S BASIC

- Uf up to 1,88 W/m²K for 1 rail
- Uf up to 2,64 W/m²K for 2 rail slide version



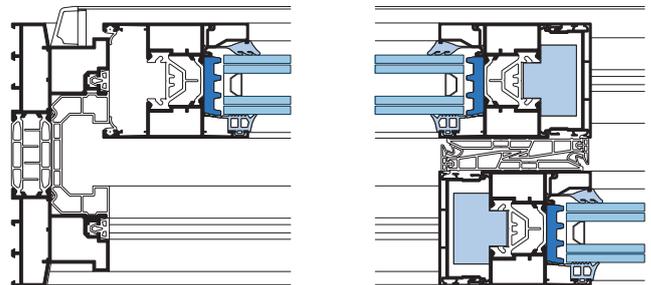
C160S SI

- Improved thermal glazing gaskets
- PE inserts in vent profile (Foam-power®)
- Uf up to 1,75 W/m²K for 1 rail
- Uf up to 2,59 W/m²K for 2 rail slide version



C160S SHI

- Improved thermal glazing gaskets
- PE inserts in vent profile (Foam-power®)
- PE insert thermal improved glazing unit
- Uf up to 1,40 W/m²K for 1 rail
- Uf up to 2,48 W/m²K for 2 rail slide version

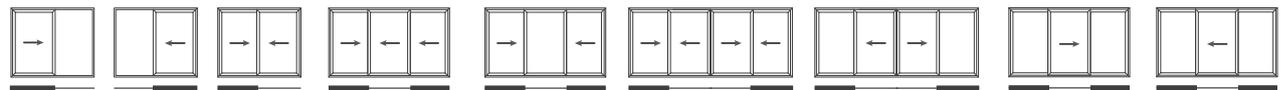


CONFIGURATIONS

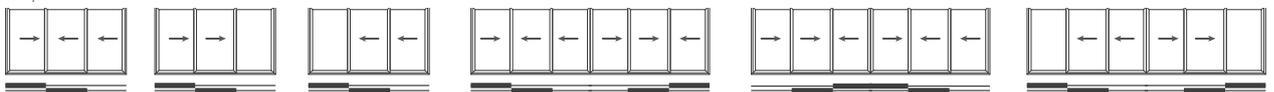
Sliding version, 1 Rail



Sliding version, 2 Rail



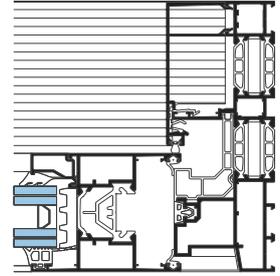
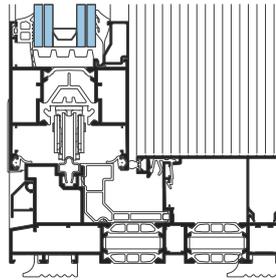
Sliding version, 3 Rail



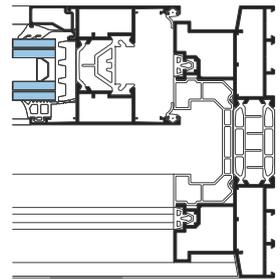
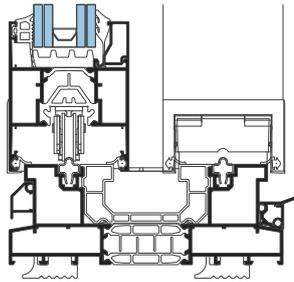
A VARIETY OF OPTIONS /

Slide and lift slide versions using the same profile dimensions to handle all vent size and weight requirements up to the largest glazing requirements. Internal or external sliding vents are available with reparation methods including mitred and straight cut profiles designed to reduce on site requirements.

1 RAIL

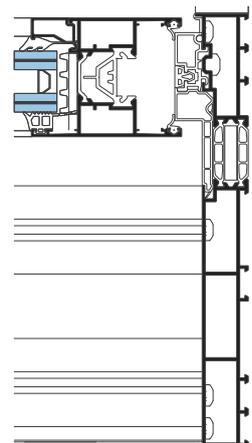
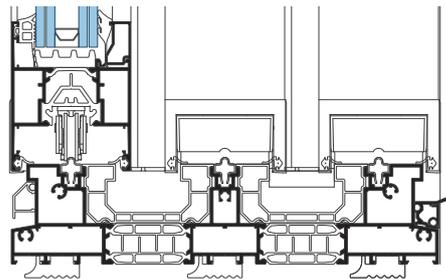


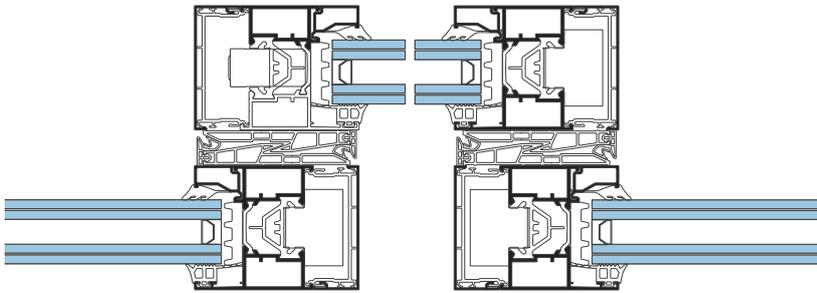
2 RAIL



3 RAIL

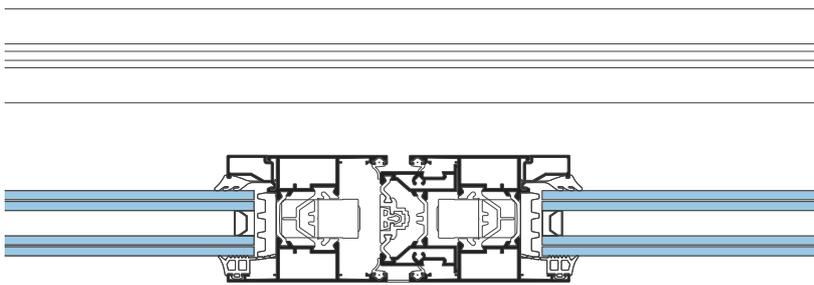
- 3 vents beside each other
- 2/3 of the window can be opening vents





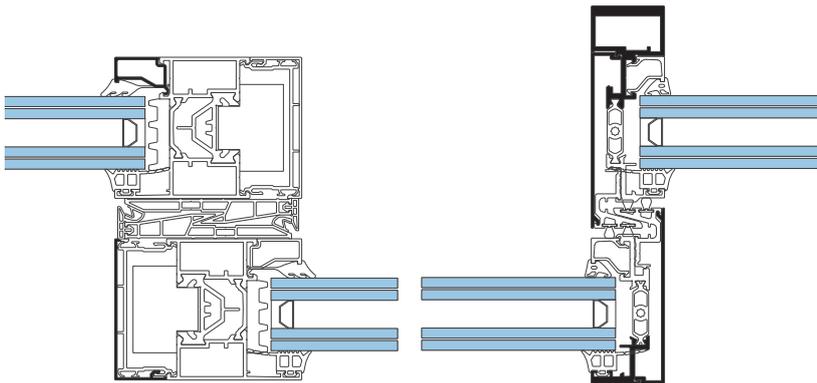
FIX-SLIDING-FIX SOLUTION

- Slide and lift-slide version
- No additional profile on the lockside, reducing the sightline



BI-PART SOLUTION

- Designed to maintain thermal path
- Standard locking plate
- Available for slide and lift-slide versions



INTERLOCK SOLUTIONS

- Standard width 92 mm
- Slim interlock of 36 mm
- Available for slide and lift-slide versions

SPECIFICATION

PERFORMANCES

Thermal break	50 mm PA 6.6 GF25 (30 or 35 mm in the vent)
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Thermal insulation*

	1 Rail version	2 Rail lift-slide version	
SHI:	U_i to 1,40 W/m ² K	U_i to 2,46 W/m ² K	EN ISO 10077-2
SI:	U_i to 1,75 W/m ² K	U_i to 2,62 W/m ² K	EN ISO 10077-2
Basic:	U_i to 1,88 W/m ² K	U_i to 2,68 W/m ² K	EN ISO 10077-2

* (U_i = U value of the profile, without glazing)

	Lift-Slide version	
Air permeability	4 - 600 Pa	EN 12207
Watertightness	E900 - 900 Pa	EN 12208
Windresistance	C3 - 1200 Pa, sec. 1800 Pa	EN 12210

This information is only an indication. For more information, please consult your local Technal Building System consultant.

DIMENSIONS

Min. sightline 1 Rail (fixed glazing)	53 mm
Min. sightline 1 Rail (sliding part)	132 mm
Min. sightline 2 Rail (fixed and sliding part)	127 mm
Min. sightline 2 Rail (lift-slide version)	138 mm
Min. sightline 2 Rail (straight cut)	122 mm
Min. sightline mid section	36 mm

Profile depth 2 Rail	160 mm
Profile depth 3 Rail	250 mm
Profile depth vent	70 mm

Max dimensions vent - hardware related* - (W x H) * weight limit = 330 kg (lift-slide)	3100 x 2800 mm
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GLAZING

Infill thickness sliding parts 2- and 3-rail	23 - 53 mm
Glazing method	dry glazed with EPDM gaskets or silicon

EASY TO MANUFACTURE AND INSTALL

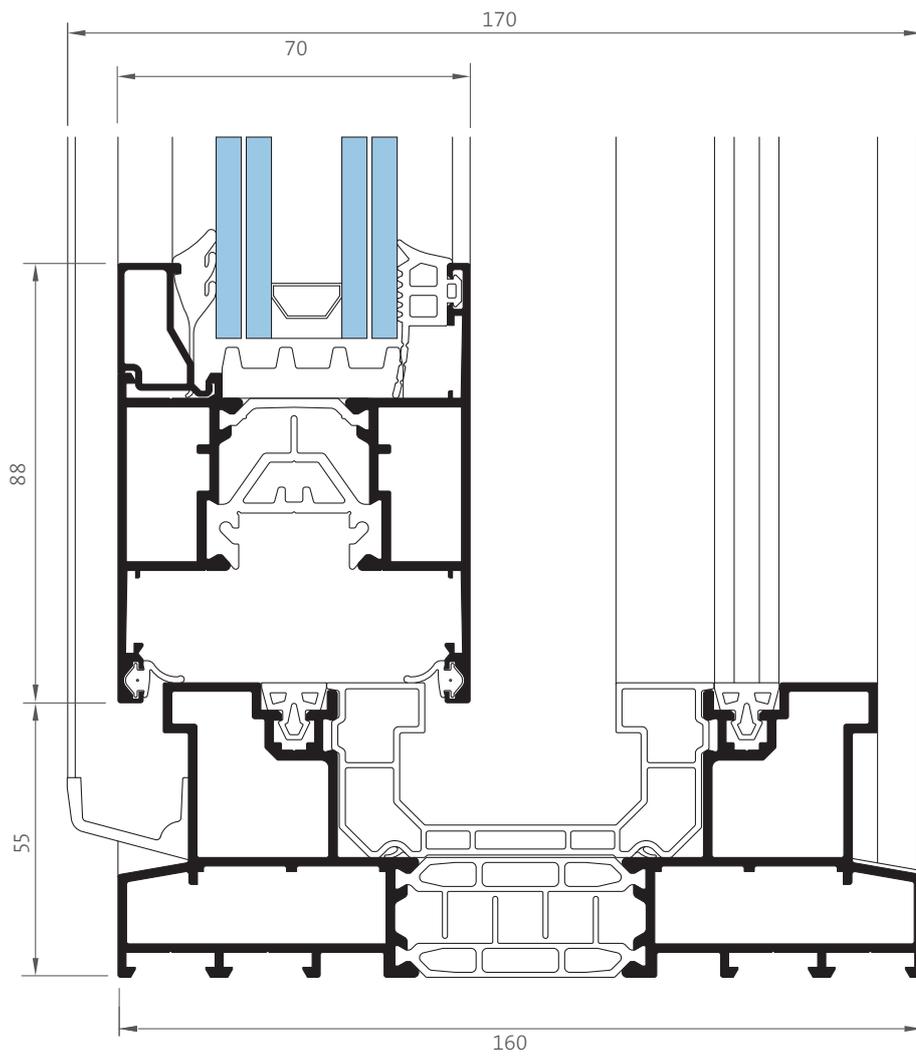
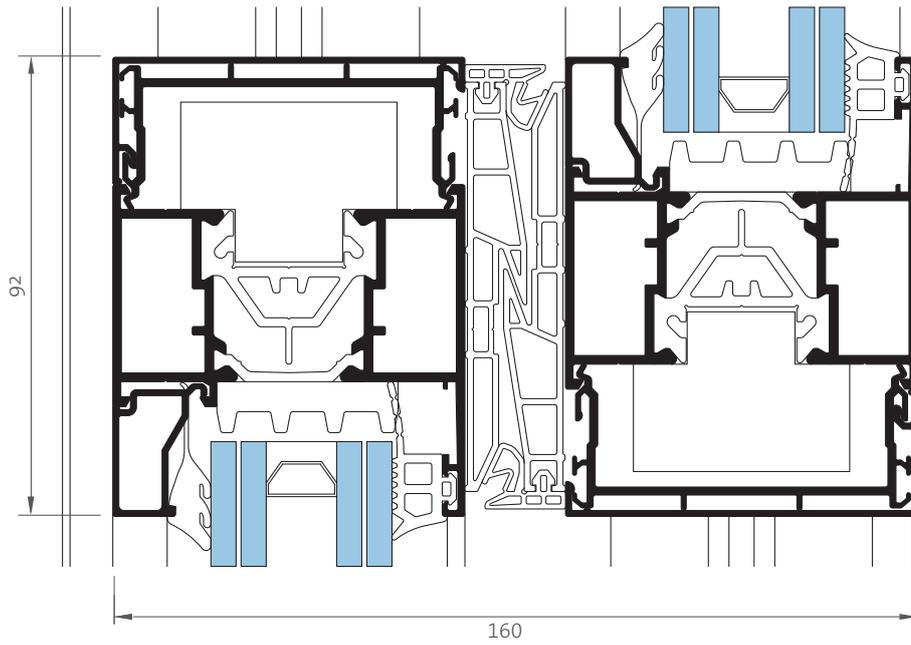
- The C160S sliding system is designed in such a way to ease fabrication, including both the mitred and square cut options.
- Frames and sashes are assembled using eccentric, pen or press corners. Stainless steel corner chevrons ensure a perfect alignment of the corners
- All profiles are prefabricated using the specially designed punching tools or machining centers. Drainage holes, vent cut outs and the holes punched for the eccentric cleats are therefore very precise, ensuring fast and accurate assembly.
- No punching needed for the installation of the bottom rollers for the lift-slide version.
- Easy to install central drainage system
- Straight cut finishing profiles at interlock
- Maximum preparation in-house, reduces assembly on site
- Fabrication manuals and precise software give the fabricator the information he requires to proceed swiftly



FM 01154

EMS 562855

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