



# PORTAL for timber

Technical information for HS

### Locking bolt



Two locking bolts generate the 15-mm, handle-driven closing and opening movement of the sash. Special polymer stops absorb the impact noise.

- High-quality cast brass locking bolts in a rounded design
- Locking bolts on roller bearings for a smooth and wear-free closing motion

### Night vent



The ECO SLIDE is fitted with a night vent as standard. This allows for efficient ventilation and optimal air circulation at any time simply by using the handle.

- Integrated as standard
- Easy to operate
- Effective ventilation
- Healthy indoor environment

### Handle



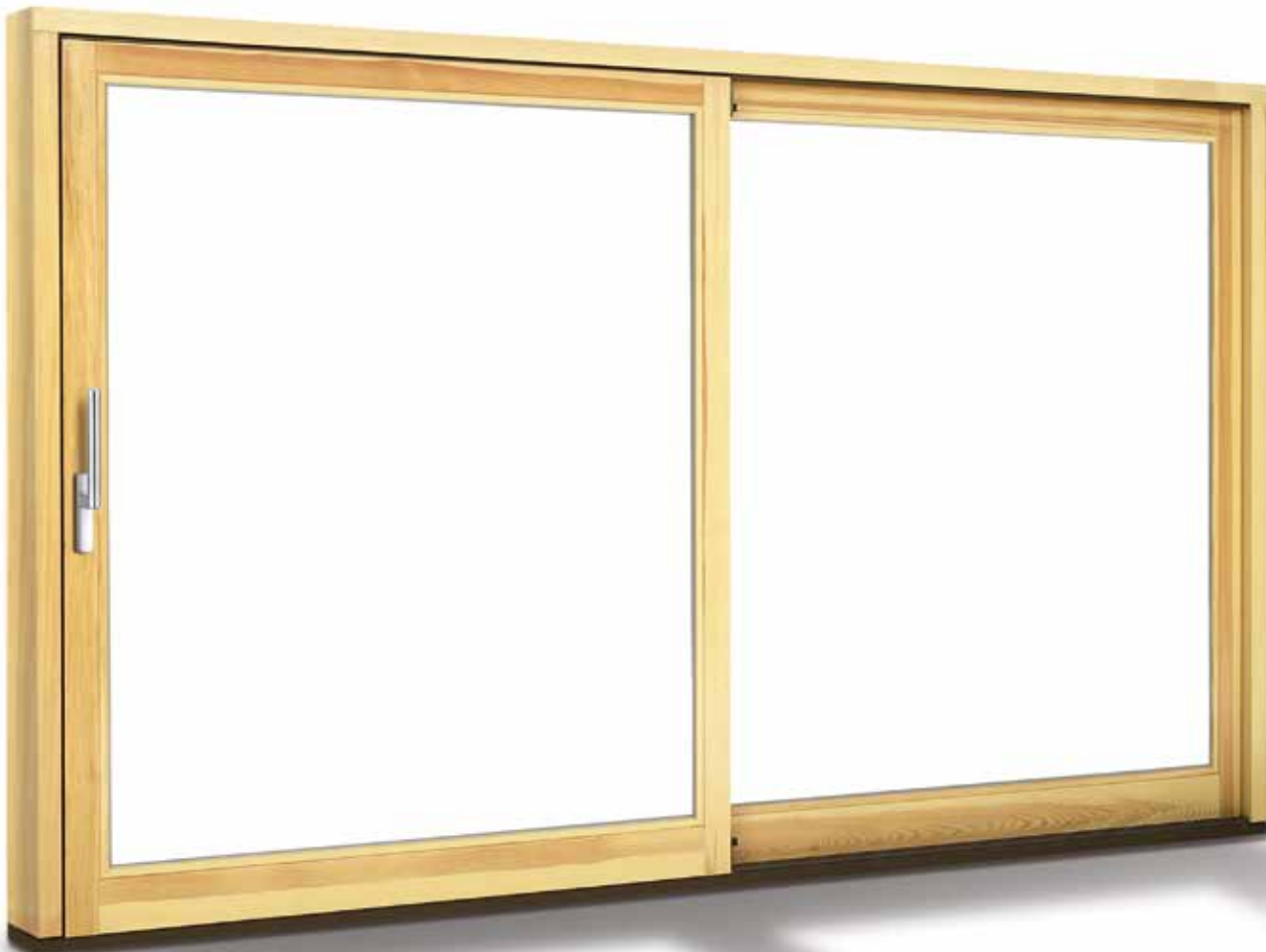
The colour-coordinated SIEGENIA handle range offers a variety of options for your window design.


- Handle length 160 mm
- Square spindle 7 mm

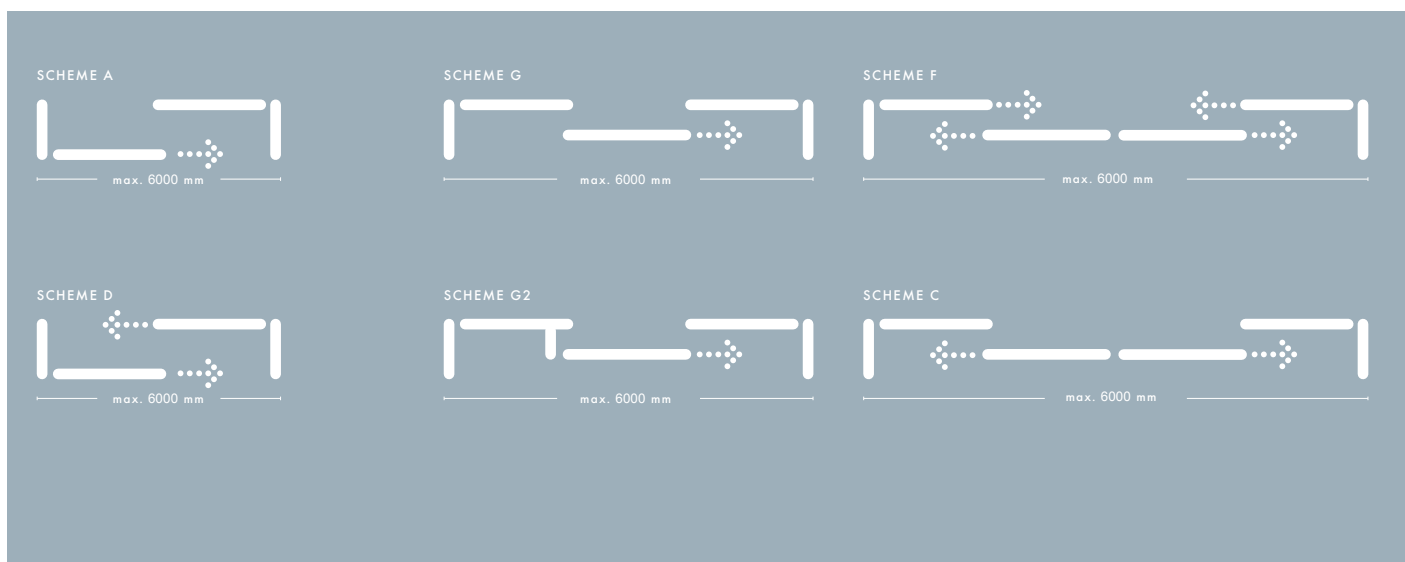
## PORTAL HS. Movement in all weight classes.

Decades of development expertise have made SIEGENIA Lift & Slide technology so sophisticated that even a sash weighing up to 400 kg can be operated safely, conveniently, and effortlessly. This is how the new PORTAL HS technology is able to reach opening widths of up to 12 metres, at a total width of over 19 metres, in timber, PVC and aluminium.

- With a step of 19 mm, the new threshold allows for disabled access in accordance with DIN 18040
- Night vent as standard
- Standard hardware already features the basic security level; easy to upgrade to RC2 resistance requirements in accordance with EN 1627-1630
- Bogie wheels fixed during installation: this simplifies assembly and reduces the potential for errors
- 3 gear sizes only, reducing logistics costs
- The functional frame corner connections provide high stability in the corner area and, together with the end caps, create an attractive appearance
- Minimum recess for gear box – the stability of the sash profile is maintained



			PORTAL HS 300	
> Sash weight			max. 300 kg	
> Sash width			720 mm – 3335 mm	
> Sash height			1175 mm – 3325 mm	
> Backset			37.5 mm	
> Handle position			Constant 410 mm, size 170 1010 mm, sizes 220, 260	
> Schemes			A, C, D, G, G2, F,	
> Handle colours			<b>EV1 (standart)</b> , also possible - White, cream, brown, titan matt light, F9, middle bronze, EV2, old gold, black	
			■ Thermally-isolated aluminium threshold (barrier-free option available)	
> Quality testing	 The QM 346 seal of approval issued by the Rosenheim Institute for Window Technology (IFT) in Germany guarantees that the quality of the tested hardware is consistently high. Tested in accordance with EN 13126-16 and EN 1191.			

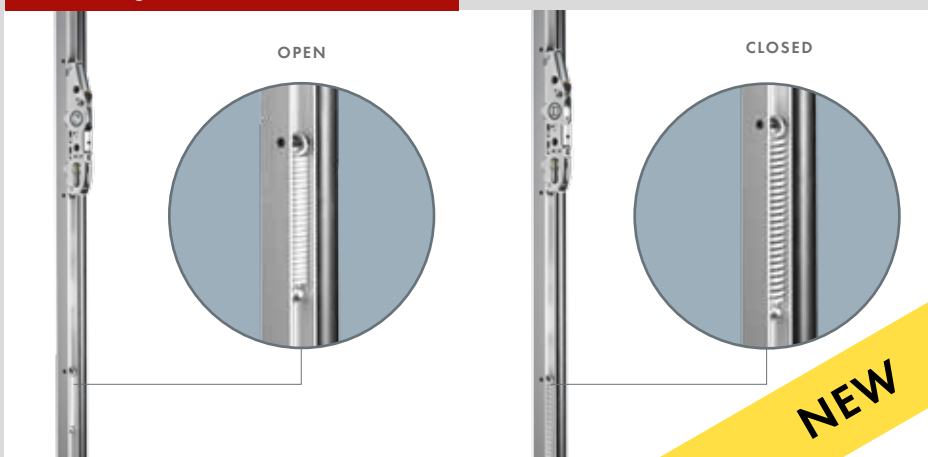


## Benefits



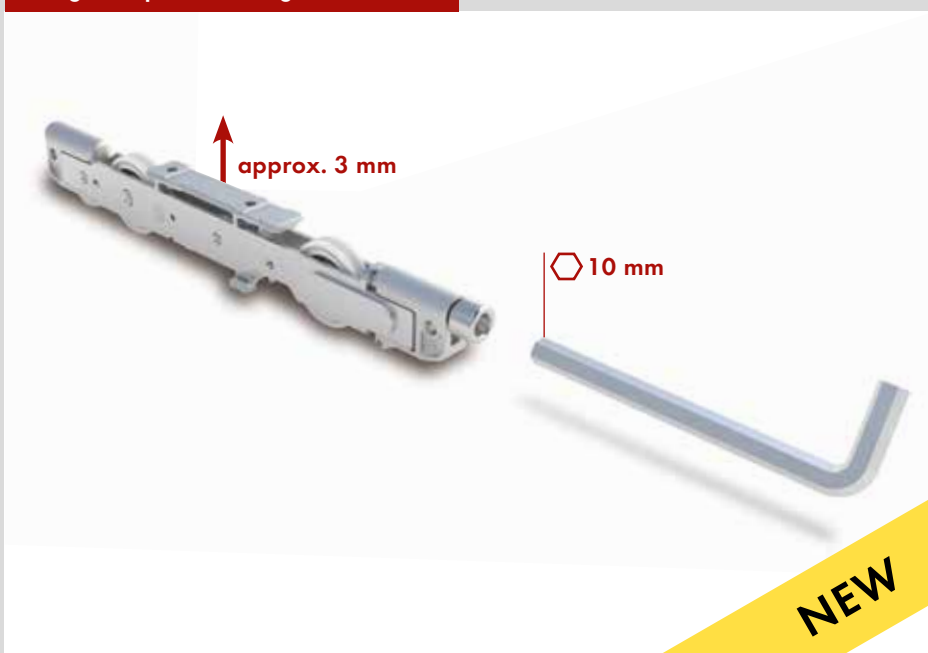
- 10-chamber design allows for optimal heat insulation
- Fully accessible (barrier-free) system thanks to retrofittable step plates
- Fits flush with the frame both inside and out and can be transported easily and economically
- Stable, single-part solution with individual design options
- Optimal sealing thanks to 50 mm adhesive surface
- Removable running rail

## Comfort gear



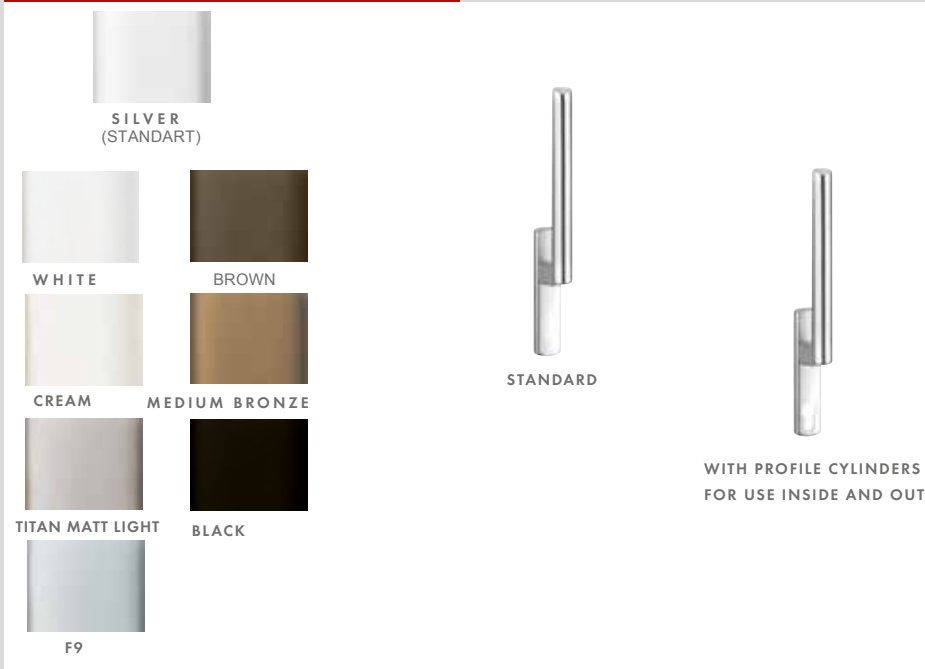
- Preassembled damper unit, ready for installation
- Reduction in force required when lifting sash into the slide position
- Handle is prevented from snapping back in an uncontrolled manner when the sash is lowered into its locked or open position
- Greater ease of operation and safety

## Height-adjustable bogie wheels



The height-adjustable bogie wheels make it possible to lift the rear sliding sash up to approx. 3 mm. This facilitates the quick and easy alignment of the sliding sash during assembly.

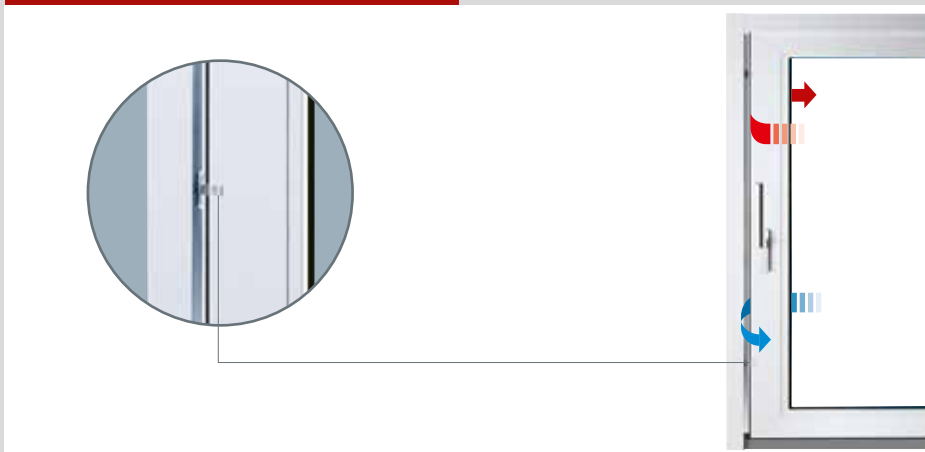
## Handle and hardware covers



Whether a standard design, with profile cylinders or a design for indoor and outdoor use, whatever your installation requirements, this range of handles offers the right grip. A wide range of handles is available to allow you to choose the best colours for your Lift & Slide doors.

- The variable pin length means that sash thicknesses of 56 – 98 mm can be accommodated
- Handles can be painted in absolutely any colour retrospectively, as required

## Night vent



The PORTAL HS is fitted with a night vent as standard. This allows for efficient ventilation and optimal air circulation at any time simply by using the handle.

- Integrated as standard
- Easy to operate
- Effective ventilation up to 265 m<sup>3</sup>/h air circulation
- Healthy indoor environment

## Intruder Resistance



- High level of basic security as standard
- Upgradable in stages up to RC2 resistance requirements in accordance with EN1627-1630
- Electronic locking monitoring can be integrated into the standard hardware

## ECO PASS threshold. Accessible and ECOlogical.

NEW



Highly energy efficient and fully accessible – the unique benefits of the ECO PASS threshold from SIEGENIA. A versatile system that is also easy to install.

With its sights set firmly on the future, SIEGENIA has developed its new ECO PASS threshold to fulfil both the requirements of the existing German energy saving regulations (EnEV 2009) as well as the anticipated requirements of the new EnEV. In addition to excellent heat insulation, the product also offers a fully-accessible (barrier-free) option,

thus offering optimum comfort combined with attractive design. Only the running rail is raised above the threshold by 5 mm. The new 10-chamber profile lies at the heart of this innovative development for pvc and timber systems, providing an exceptional thermal transmission values. At the same time, the special design, with its integrated aluminium reinforcement, makes the threshold particularly robust. Thanks to its one-piece construction and unique degree of pre-assembly, the ECO PASS is quick and inexpensive to install. Together with the

frame profile, this energy efficient threshold provides the perfect finishing touch both inside and out. An extensive modular system also offers various possibilities for expansion and customisation to the existing building structure, including a variety of weather protection, adapter and compensation profiles. The individual sealing profile can be used to generate a sufficient adhesive surface (50 mm) for sealing membranes.