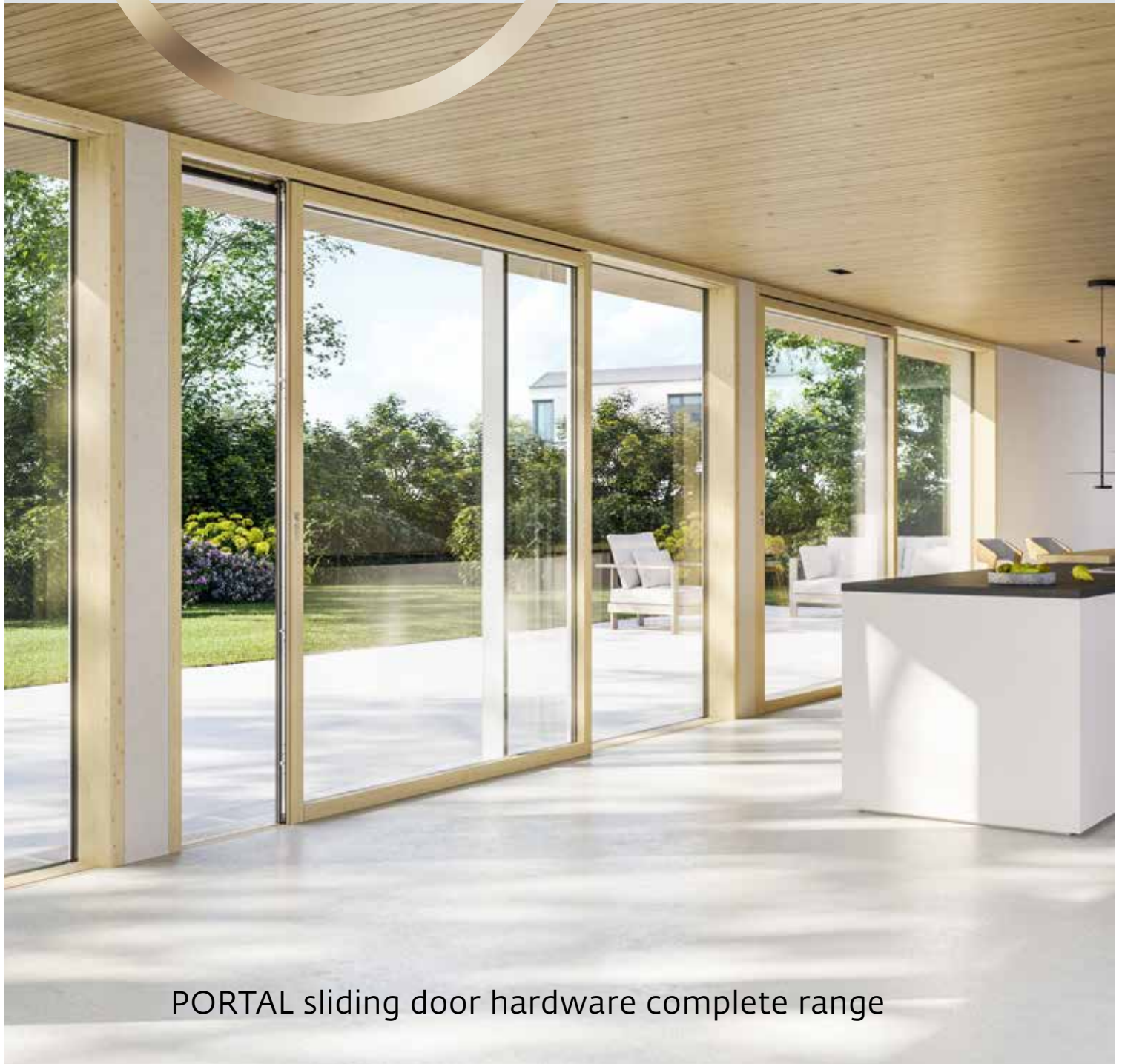


**Open spaces
for the living of
tomorrow.**



PORTAL sliding door hardware complete range

Looking forward 360°.

As a German company with over 100 years of experience we are advancing the future of room comfort – with a holistic approach and innovative ideas to design the best solutions for our customers. In doing so we combine the highest demands in use with precisely matching services along the entire planning and production process and also take responsibility for how room comfort is created sustainably.



Use

Where technology meets comfort.

We focus on people and their needs and create rooms for comfortable feeling with our well thought out products. Rooms which are comfortable, energy efficient and ready for the future and also take every generation into account. Our sliding door solutions ensure light-flooded rooms with a flowing transition to the outside and create an open atmosphere entirely without any barriers. Large elements are able to move easily here too or at the touch of a button.

Services

Conceived from practical application. Produced for practical application.

Because a good product is more than just its function, we take care that our solutions always make the everyday work of our partners appreciably easier too – from planning to production to installation on site.

For example with our COMFORT UNIT for lift and slide elements: threshold, connection solutions and all hardware components in a comprehensive package – configured online and maximally pre-assembled.

This is how we
create rooms with a future.
360° room comfort

Sustainability

Experience, bearing responsibility.

In respecting with the tradition of a fourth generation family led company we act sustainably and responsibly. To reduce our ecological footprint we are therefore continually evaluating our strict climate protection roadmap to be climate neutral in accordance with Scope 1 and 2 by 2028. To do this we are producing our solutions to be not only resource efficient, but also aligning them in detail consistently on sustainability – for rooms and living spaces fit for the future.

One example: our pre-assembled all-inclusive turnkey package for lift and slide elements, which is provided ready for installation and avoids cutting scrap as a result.



PORTAL hardware for sliding elements

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PORTAL opening types, opening schemes

More width and a wide variety of designs.

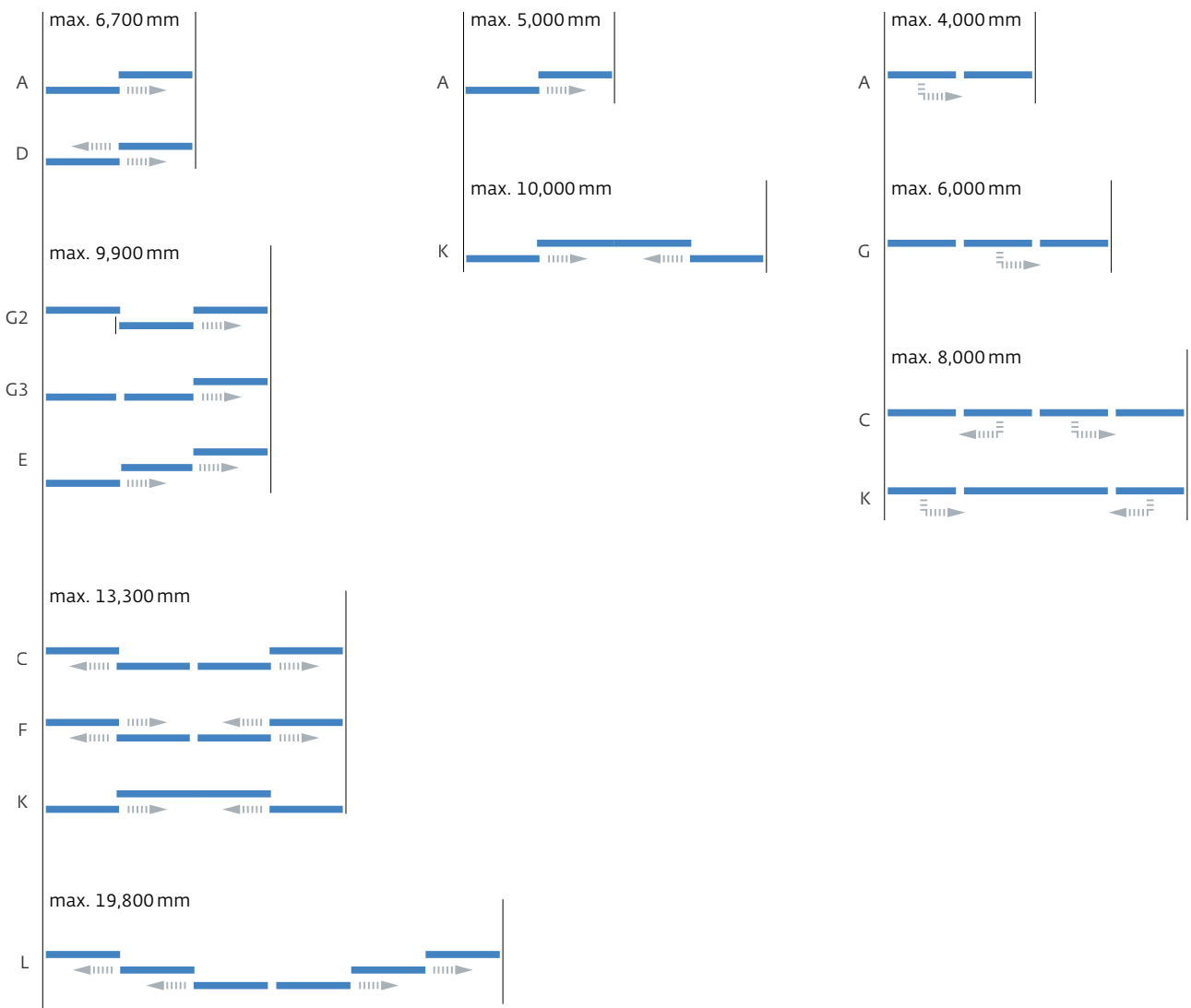
Lift and slide
PORTAL HS



ECO SLIDE slide
PORTAL ES



Parallel slide and tilt
PORTAL PSK comfort

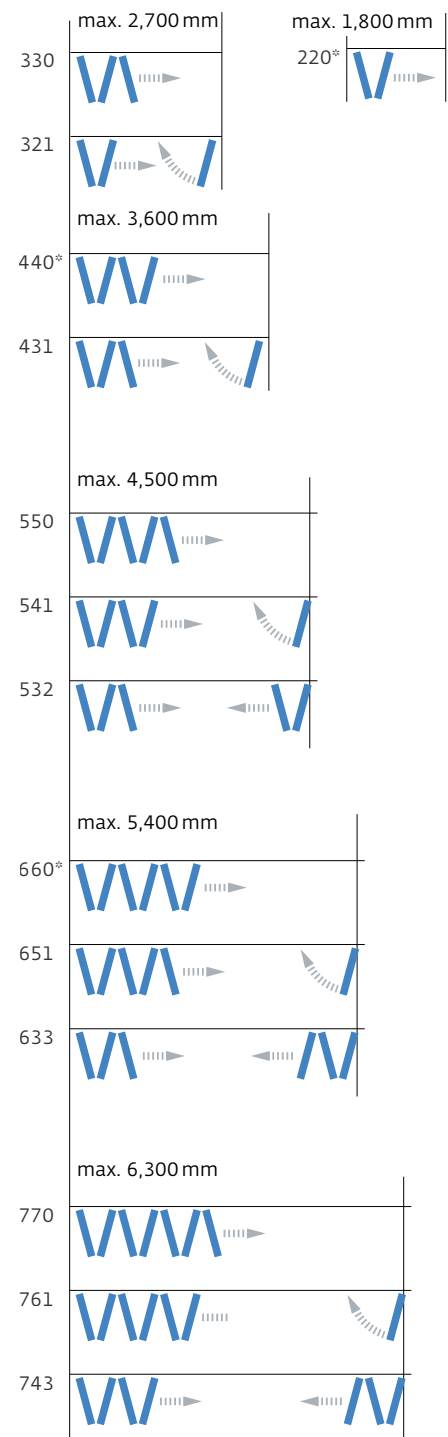
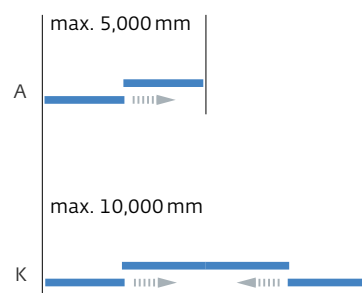
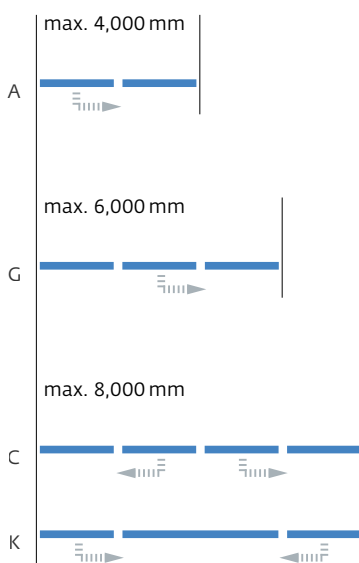


Parallel slide

PORTAL PS comfort

**Slide**

PORTAL CS

**Fold and slide**PORTAL FS^{PLUS}

* Profile-specific clarification is required



PORTAL HS

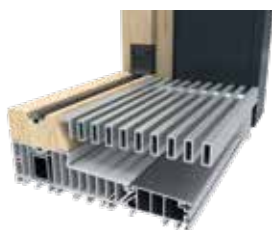
The pioneering lift and slide system
for greater comfort and opening widths.

More room comfort and scalability options.

With an opening width up to 12 m and a total width of approx. 20 m, PORTAL HS brings movement into modern design concepts with ease. After several decades of development, even lift and slide elements with a sash weight of 400 kg can be operated conveniently and safely. The innovative design and upgradeability options, ranging from a SOFT CLOSE function and burglar resistance up to RC3 to concealed motor function or opening and locking monitoring, offer you all possibilities for individual choice. In this way, you can flexibly design more room comfort or adjust your systems precisely to the actual project requirements.

High efficiency and lean logistics.

The PORTAL lift and slide technology for timber, PVC and aluminium is so versatile and sophisticated that it combines diverse room comfort options with endless possibilities for saving time and reducing costs. The high degree of pre-assembly, the optimum adjustment options and the small number of components ensure more efficient processes and streamlined logistics. Moreover, we provide our lift and slide systems as a zero-hassle COMFORT UNIT package ready for assembly.



reddot winner 2020
best of the best

Revolutionary production. Outstanding design.

Our lift and slide systems with the ECO PASS threshold are perfectly tailored to your requirements. Because of the zero-hassle service of the COMFORT UNIT, you can obtain complete packages ready for assembly in which everything is already cropped, pre-drilled and preassembled.

With our ECO PASS SKY axcent level threshold, you can offer your customers a solution that combines accessibility, energy-efficiency and design in a pioneering way. This was worthy of the renowned Red Dot Award, the highest distinction.

PORTAL HS

Product overview.

Planning and production	PORTAL HS 150	PORTAL HS 250	PORTAL HS 350
Opening type	Lift and slide	Lift and slide	Lift and slide
Profile	Timber	Timber, PVC, Aluminium	Timber, PVC, Aluminium
Sash width in mm	650–2,485	590–2,485	720–3,335
Sash height in mm	1,175–2,690	1,175–2,690	1,175–3,325
Sash weight in kg maximum	150	250	350
Quality assurance	QM-346 certified (H3), corrosion class 5	QM-346 certified (H3), corrosion class 5	QM-346 certified (H3), corrosion class 5
handle position	variable in steps (510, 810, 910, 1010, 1,110 mm)	410 mm for size 170 1,010 mm for sizes 220, 260	410 mm for size 170 1,010 mm for sizes 220, 260
Schemes	A, C, D, G2, G3, K, F, E, L	A, C, D, G2, G3, K, F, E, L	A, C, D, G2, G3, K, F, E, L
Thermally isolated threshold (optionally barrier-free)	⊙	⊙	⊙
Self-cleaning roller	–	–	⊙
Height-adjustable bogie wheels with rollers on ball bearings	–	–	⊙

Options for greater room comfort			
Achievable resistance class in accordance with EN 1627–1630			RC2, RC3
Handle lockable from the inside and outside	⊙	⊙	⊙
Accessibility as per DIN 18040	⊙	⊙	⊙
Glazing down to the threshold level	–	⊙	–
SOFT CLOSE function	⊙	⊙	⊙
Night vent	⊙	⊙	⊙
AEROMAT flex	⊙	⊙	⊙
Motorised drives		DRIVE axxent HSA smart, DRIVE axxent LS, DRIVE axxent LS smart	DRIVE axxent HSA smart, DRIVE axxent LS, DRIVE axxent LS smart
Opening and locking monitoring system AEROCONTROL	⊙	⊙	⊙
Special features		Optional comfort gear with energy storing mechanism, optional fittings in black	Optional comfort gear with energy storing mechanism

Benefits

- Flexible and scalable load capacity up to max 400 kg sash weight
- High level of security as standard, upgradeable up to RC3 depending on the profile system
- Quick and easy assembly: Small number of components, high level of pre-assembly and optimum adjustment opportunities
- Also available as a ready-to-install zero-hassle COMFORT UNIT package
- Smooth, safe operation and night vent as standard
- Profile system dependent with SOFT CLOSE: cushions the sash and closes it gently
- Comfort gear for heavy sashes
- AEROCONTROL opening and locking monitoring system possible
- Barrier-free accessibility and professional installation thanks to the ECO PASS threshold
- More light incidence thanks to the ECO PASS SKY solutions

PORTAL HS 400 PORTAL HS 400 compact

Lift and slide

Timber, PVC, Aluminium

1,370–3,335

1,175–3,325

400

QM-346 certified (H3), corrosion class 5

410 mm for size 170

1,010 mm for sizes 220, 260

A, C, D, G2, G3,
K, F, E, L

⊙

⊙

⊙

RC2, RC3

⊙

⊙

⊙

⊙

⊙

⊙

DRIVE axxent HSA smart, DRIVE axxent LS,
DRIVE axxent LS smart

⊙

Optional comfort gear with energy storing
mechanism, optional fittings in black



PORTAL HS slim

solution with especially slim profile widths.

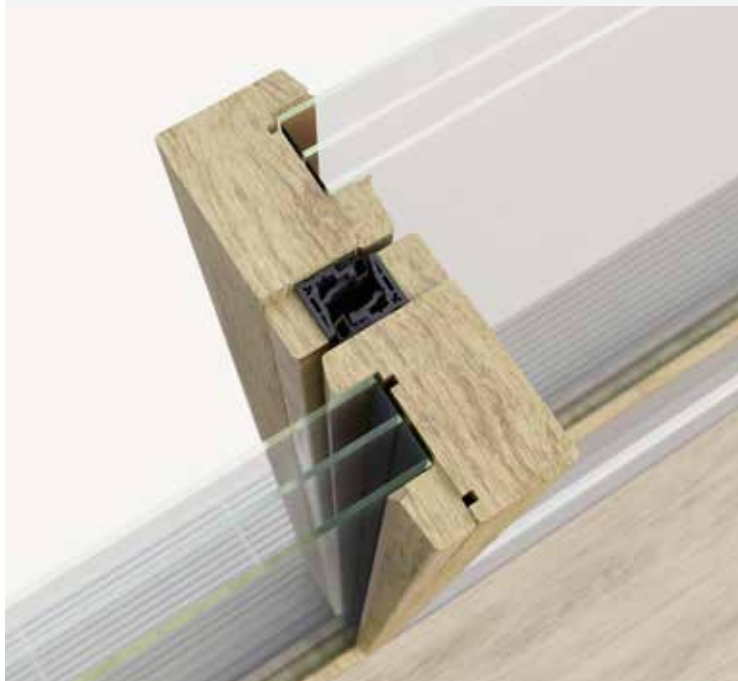
PORTAL HS slim is a high-quality option in the lift and slide range for timber or timber-aluminium elements with their consistently narrow frame weights – even in the mid-section, this is only 60 mm. Just like the HS system for wider profiles, the new solution is convincing due to the superior compression values and optional burglar resistance up to RC2. HS PORTAL slim is mainly based on the use of the same components as the SIEGENIA HS timber 4.0 versions and thus ensures efficient processes and lean warehousing.

60 mm – not only a measure, but a standard

The frame profiles are completely made of timber and do not need foreign material to stabilise them. This makes production of the elements exceptionally easy and efficient. Additional stability is also provided by the adhesion of the glass edge seal to the sash.

No compromises in terms of appearance

The well-conceived design of the hardware allows the complete and discreet integration of the components into the profiles. For example, the concealed stop buffer is virtually invisibly inserted into the flush guiding rail.



Production benefits

- Timber frame profiles, therefore no foreign material stabilisers are required
- No additional components for fabrication of HS timber 4.0 versions
- Also available as a ready-to-install zero-hassle COMFORT UNIT package

Benefits

- Maximum light incidence, a lot of natural daylight
- No loss of ease of use in comparison with wider profile systems
- Best compression values and watertightness according to class 9A
- Optional burglar resistance up to RC2 even with a running rail height of only 5 mm
- Optional motorised solutions, including for Smart Home applications



The new solution for virtually frameless lift and slide elements: PORTAL HS slim SKY PLUS. To achieve this, the advantages of the PORTAL HS slim are combined with the minimalist look of a continuous level threshold. The narrow frame of the lift and slide element can be embedded in the plasterwork. This ensures a smooth transition between the frame and the threshold.

ECO PASS thresholds

Solutions for every property and any design requirements.

The unique ECO PASS threshold for our PORTAL lift and slide elements perfectly brings barrier-freedom and high energy efficiency flexibly and in an easy-to-assemble way down to one single common denominator. In addition, the ECO PASS threshold is available in different versions: as the standard variant, with 5-mm running rail and inclined step plate, with 5-mm running rail and level threshold, or in the level variants with 0-mm running rail (profile system dependent).

The benefits of the ECO PASS threshold include its outstanding insulation characteristics and first-class thermal insulation. The thermal separation of the well-conceived 10-chamber profile prevents the formation of condensate and provides a pleasant indoor environment.

Extremely high stability is provided thanks to aluminium or steel reinforcement integrated in the threshold. This is achieved in the corner area of the threshold by special frame corner connections. The precisely fitting base profiles bear the threshold load to the floor evenly and entirely.

Profile selection

The unique ECO PASS threshold is available for multiple profile systems:

PVC

- Deceuninck HS476
- Gealan S9000
- Profine PremiDoor 76
- Profine PremiDoor 88
- Rehau Geneo
- Rehau Synego
- Salamander evolutionDrive: HST
- Schüco LivingSlide
- Vekamotion 82

Timber

IV 68, IV 78, IV 80, IV 88, IV 92

Timber/aluminium

- Aluron
- Gutmann
- Stemeseder



ECO PASS Standard

Ideal for renovations with floor offset.

The standard ECO PASS version is the classical lift and slide threshold with a small step and a replaceable running rail with a height of 5 mm or 15 mm. This means that it is ideally suited to renovations in which there is a floor offset between the inside and outside areas.

ECO PASS running rail

With convenient passage way height thanks to additional step plates.

In this threshold version, the passage height is reduced to a convenient 10-12 mm, depending on the profile system, thanks to additional step profiles and the special running rail, including the 3° incline. This makes the threshold barrier-free according to DIN 18040-2 and offers an elegant threshold design at the same time.



Production benefits

- For HS systems made of timber, aluminium or PVC
- Professional sill installation made possible by the perfect standard and accessory programme
- Single piece solution with flush adaptation of the threshold to the installation depth of the frame
- Versatile connection profile programme of sealing rails in adequate sizes up to weather bars for homogeneous sealing without edges
- Also available as a zero-hassle COMFORT UNIT package ready for assembly

ECO PASS thresholds

Solutions for every property and any design requirements.

ECO PASS level 0 mm or 5 mm threshold

With level step plate and choice of 0 mm or 5 mm running rail

These threshold versions with their pleasing appearance and flat design underline the elegance and value of PORTAL HS. Moreover, the new thresholds score highly with their excellent watertightness: thanks to the two-level drainage, the same standard of watertightness is achieved as with the conventional thresholds with inclined water drainage channels.

0 mm running rail

5 mm running rail



Production benefits

- For lift and slide systems made of timber-aluminium, timber and also, for 5-mm running rail, PVC
- Professional sill installation made possible by the perfect standard and accessory programme
- Single piece solution with flush adaptation of the threshold to the installation depth of the frame
- Versatile connection profile programme of sealing rails in adequate sizes up to weather bars for homogeneous sealing without edges
- Also available as a zero-hassle COMFORT UNIT package ready for assembly

ECO PASS SKY axxent level threshold for narrow HS slim frame profiles

With level threshold and choice of a 0 mm or 5 mm running rail

Specially developed for combining with narrow HS slim frame profiles, this threshold version enables the creation of virtually frameless elements with a consistently high standard of design. The unobstructed accessibility in the passage way and the seamless transition of the fixed glazing into the floor create a minimalist look. In addition, the colour used for the threshold can be customised to match the material of the floor or frame on the inside.



Production benefits

- For lift and slide systems made of timber-aluminium with fixed glazing that extends down into the floor
- Designed for narrow HS slim frame profiles
- 0 mm or 5 mm running rail with level threshold for barrier-free accessibility in accordance with DIN 18040-2
- Customisable threshold design to match the material of the floor or frame
- Professional installation

ECO PASS thresholds

Solutions for every property and any design requirements.

ECO PASS SKY axxent level threshold

Threshold and drainage grille in a uniform design.

The outstanding solution for gap area: the identical appearance and uncluttered design of the threshold and drainage grille combine to create a truly seamless transition. The colour used for the threshold can also be customised to match the floor or the frame material. A pioneering combination of accessibility, energy efficiency and design – earning it the renowned Red Dot Award, the highest distinction.



reddot winner 2020
best of the best

Production benefits

- 0-mm running rail with level threshold for barrier-free accessibility in accordance with DIN 18040-2
- For lift and slide systems made of timber-aluminium with fixed glazing that extends down into the floor
- Customisable threshold design to match the material of the floor or frame
- Possibility of using an identical design for the threshold and drainage grille
- Professional sill installation possible thanks to optional components

ECO PASS GRP thresholds

For the highest design and stability demands.



ECO PASS GRP threshold

Made from glass reinforced plastic.

The glass reinforced plastic threshold is available in various designs and in grey and black. The on-trend black colour, in particular, makes a bold design statement when combined with black hardware components on timber and timber-aluminium elements. The homogenous surface and high dimensional stability are also impressive, even under severe thermal stresses. The design-oriented SKY solutions with a fixed panel rather than a fixed sash benefit from the GRP material in particular: the thermal stresses are minimised here under the glass.

Production benefits

- GRP R version especially for renovations (with planned sill installation): thresholds with a height of 25 mm for installation on the finished floor, in overall depths of 171, 182 and 203 mm for timber, timber-aluminium or PVC systems
- GRP NL164 version especially for the Dutch market: with a slim design, in overall depth 164 mm for timber systems, in colour black
- ECO PASS GRP B version: 0 mm or 5 mm thresholds with 50 mm footing into the floor, in overall depths of 182 and 203 for timber and timber-aluminium systems in IV 78, IV 88 and IV 92, available from Q2 2026

ECO PASS sill installation

Certified complete solutions for ECO PASS thresholds.

Architects and planners benefit from the complete solutions for professional sill installation, thanks to the security that comes with standard-compliant, consistently high-quality solutions. A further solution with SIEGENIA connection flange is available in addition to the tried-and-tested design with vertical and horizontal sealing plates, sealing wedges and base profiles. It makes the professional sealing of the building element simple and durably reliable, especially for applications with, for example, roller shutter guide profiles or timber-aluminium elements.

Each of the two solutions has been certified as a complete solution with carefully coordinated threshold, connection joint tape and sealing with liquid plastic in accordance with the demanding MO-01/1 test procedure from the ift Rosenheim. Moreover, the tried-and-tested horizontal sealing plate is available in a new, process-optimised version for both solutions: in future it will be clamped into place with the rolled seal in one step and will reliably prevent water from running diagonally into the wall.



Production benefits

- Complete solutions for professional sill installation
- Certified in accordance with ift directive MO-01/1
- Reliable compression
- Flexible and time-saving fabrication



Solution 1**Vertical sealing plate**

Perfectly coordinated: the great strength is the uniform base throughout the complete sealing surface. This makes the combination of vertical and horizontal sealing plates extremely efficient and low cost.

**Solution 2****SIEGENIA connection flange**

Maximum flexibility: the seal ends at the connection flange, meaning that the narrow frame remains free from the seal e. g. for roller shutter guide profiles. Their well-conceived, practical design makes the sealing extremely simple and facilitates the collaboration between the different trades.

**Horizontal sealing plate:**

The optimised horizontal sealing plate is combined with one of the two vertical connection solutions. Its design, thought out to the last detail, ensures a time-saving and absolutely production-optimised finish: it is clamped into place with the rolled seal in one step and reliably prevents water from running diagonally into the wall.



COMFORT UNIT

The production-optimised lift & slide complete package with ECO PASS threshold.

Ready for assembly at once: everything is trimmed, pre-drilled and pre-assembled.

With the COMFORT UNIT, you will obtain a zero-hassle service that will revolutionise your production processes. Because not only is the ECO PASS threshold already completely pre-drilled and assembled, this also applies to all of the other hardware components. From the bogie wheels to the guiding rail and extending to the handle and gear: everything is cut to size and preassembled as much as possible. The new SIEGENIA online shop makes ordering and configuration even safer, faster and easier.

Tailor-made for fast production processes: the new online shop with configurator.

With the new SIEGENIA online shop, the entire ordering process is tailored to the production. Thanks to the configurator, with just a click you have a solution on hand that automatically displays all possibilities and eliminates all ordering errors. You have an overview of the process at all times thanks to the order history and the delivery tracking. SIEGENIA does the rest.



Production benefits

- Considerable saving of time, production costs and storage space
- No expensive warehousing, no searching for components and no inventory risks
- No waste, no scrap cuttings, no production risks
- Higher flexibility in case of production peaks
- Fast and easy configuration in the SIEGENIA online shop with plausibility testing
- 48-hour express delivery within Germany when ordered before 12 noon
- Standard delivery time within Germany 5 – 8 working days, delivery time for other countries on request

shop.siegenia.com



Secure configuration with
immediate plausibility testing



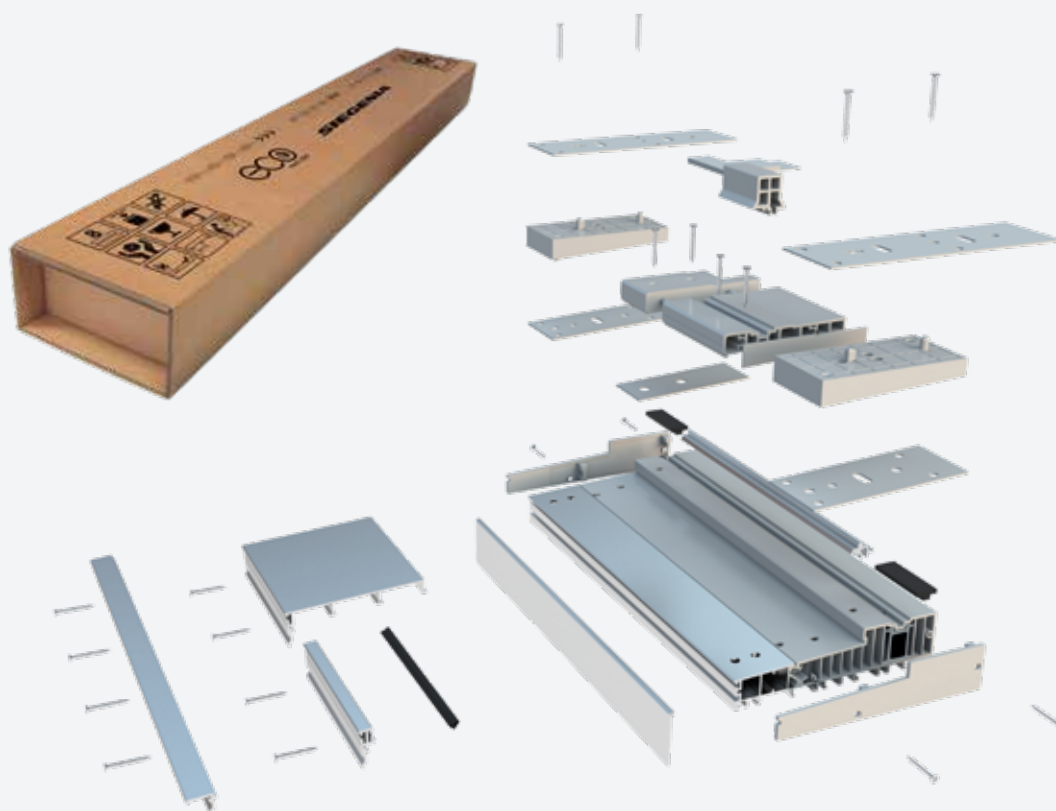
Quick processing of the individual order



Quick delivery,
within 48 hours on request

The COMFORT UNIT includes
all hardware components
such as bogie wheels, gear and handle:
precisely assembled and cut to size.

ECO PASS threshold with frame corner connector,
mid-section, support rail, adapter rail, all seals
and the running rail: cut to size, pre-drilled and
completely assembled.



Gear

High-quality solutions to ensure the perfect combination of safety and ease of use.

Locking bolt gear

Burglar resistance up to RC3.

The locking parts are mounted on the gear housing on the sash and are largely concealed by the sash rebate. The frame is fitted with special locking pockets. These ensure a discreet appearance without any protruding locking parts on the frame. In addition to the flexible choice of two to four locking points, this includes burglar resistance up to resistance class RC3 (EN 1627 ff). The locking bolt gear, with frame parts adapted to the profile geometry, is suitable for all types of material.



Production benefits

- 27.5 mm and 37.5 mm backsets
- Pressure adjustment at the locking point in 0.5 mm increments

Sealing rail B axxent

No visible screws.

As a high-quality solution for timber and timber-aluminium elements, the sealing rail B axxent is the perfect complement to the new locking bolt gear. The continuous strip of the sealing rail covers the screw connections of all of the frame parts, leaving only the lock openings for the locking parts visible. Depending on the profile system, this design principle can also be applied to aluminium lift-and-slide elements.



Production benefits

- Easy pre-positioning of the strikers with spring clips
- Simple fine positioning with positioning aid
- In colours white, light grey, black

Hook bolt gear

Flush, tight and secure.

First-class sealing is provided by up to three hook bolts with their integrated locking function and effective burglar resistance up to RC2 is guaranteed when used in conjunction with accessories. The flush-mounted frame strikers mean that there are no protruding hardware components in the gap area. When the sash is closed, the hook bolts slide over the locking rollers into the frame strikers, smoothly and with zero wear from bottom to top, thus reducing the load on the gear. The night vent function is integrated as standard and the concealed pressure adjustment is ± 2 mm.



Production benefits

- Backsets 27.5 mm and 37.5 mm
- Concealed pressure adjustment ± 2 mm
- No wear to the frame part due to roller-guided hook bolts

Comfort gear

So that the handle does not spring back and lifting is easier.

The comfort gear is available for the standard and the hook bolt gear. This includes a preassembled accumulator. A spiral spring uses the weight of the sash to reduce the torque and lift the sash more easily. The handle is prevented from snapping back in an uncontrolled manner when the sash is lowered into the locking position. Depending on the comfort level required, a damper can be used additionally for the comfort gear for sash weights from approx. 300 kg. This will further prevent the handle from snapping back.



Special spring: if the element is closed, the spring serves as an energy storage mechanism.



Gear damper

Perfect, noiseless power transmission without loss of stroke.



The gear damper ensures a backlash-free connection between handle and gear. This means that no cracking noises are generated or loss of stroke is incurred when operating heavy sashes. The damper is integrated in all PORTAL HS gears with a backset of 27.5 and 37.5 mm as standard.

When the element is opened, the spring discharges the force again.

Production benefits

- Preassembled accumulator, ready for installation
- Additional damper for even more operating safety, can be retrofitted on site

Production benefits

- No additional part or expenditure: already integrated in all HS gears with 27.5 mm or 37.5 mm backset

Gear

High-quality solutions to ensure the perfect combination of safety and ease of use.



	170	220	260	280
Standard gear	⊙	⊙	⊙	⊙
hook bolt gear	–	⊙	⊙	–
locking bolt gear	⊙	⊙	⊙	⊙
Gear extension	⊙	⊙	⊙	⊙

Production benefits

- Efficient production
- Flexible configuration of the product range

Sealing rails

Let neither cold and heat nor burglars through.

Sealing rail C

Good insulation values.

The sealing rail C for timber elements facilitates the creation of a reliable seal of the space between the sliding and fixed sash. To achieve burglar resistance up to RC2, three aluminium rear security interlocks can be attached to the rail as necessary to effectively prevent the sash from being pried open.



Production benefits

- Easy installation of the PVC sealing rail
- Large seal compensates for production tolerances
- Easy adjustment due to centre lock with compression adjustment

Sealing rail C28/48

Optimum insulation for narrow profile views.

Sealing rail C28/48 allows effective sealing in the vertical and in the critical top horizontal sash area. Moreover, burglar resistance up to RC2 can be achieved with only a few additional components. Hence, this solution offers all prerequisites for a high level of room comfort.



Production benefits

- Easy installation of the PVC sealing rail
- Can also be mounted horizontally to seal the top sash area
- Sash tolerance range +/- 3mm in both directions
- Optionally available with additional sealing brush
- Easy, invisible fixing due to pre-drilled screw holes

Sealing rail DS28/48/28

Optimum insulation and optionally high security with narrow profile views.

The consistent further development of the sealing rail C28/48 ensures even more room comfort and more speed in fabrication. In combination with the HS 4.0 sealing system, the DS28/48/28 guarantees optimum compression horizontally at the top and vertically and enables certified burglar resistance up to RC3 with only a few additional components.



Production benefits

- Easy installation of the PVC sealing rail
- Increased sash tolerance range
- Fastest fabrication and easy fixing due to pre-drilled screw holes and a corner part between the horizontal and vertical sealing rail

Bogie wheels

Make heavyweights practically weightless.

HS 400 compact / HS 500 compact bogie wheels

Moves sash weights of up to 400 kg effortlessly on eight self-aligning rollers, or even up to 500 kg with an extension.

HS 400 compact: Due to their self-aligning load distribution on eight rollers, these bogie wheels effortlessly slide even heavyweight sashes back and forth. Their exceptionally low height allows especially narrow sash profiles and with the enhanced glass proportion, provides both more daylight and better U-values. The omission of a tandem solution for 350–400 kg sash weights shortens the assembly time. The new coupling piece for the connection of the bogie wheels optimises the hardware assembly. Its sophisticated design enables the use of a square connecting rod and ensures easy handling in production.

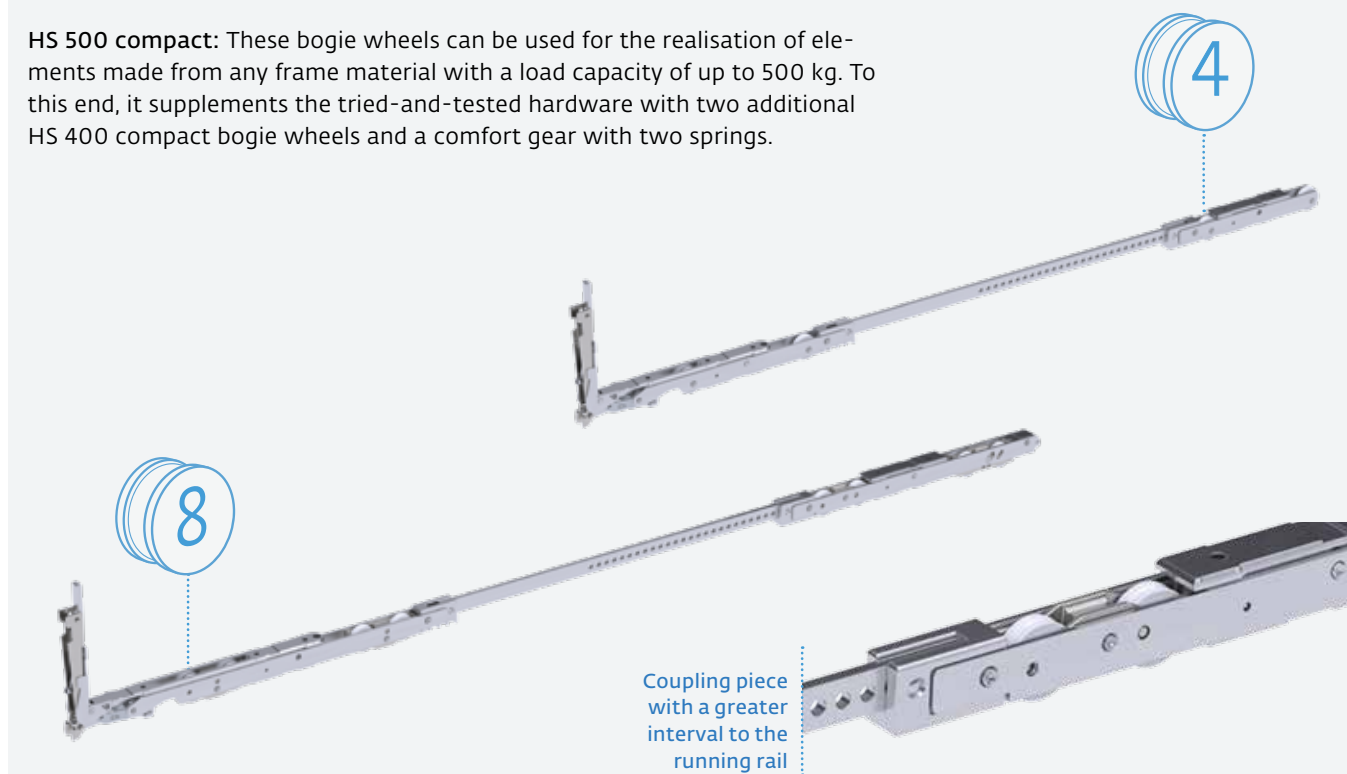
HS 500 compact: These bogie wheels can be used for the realisation of elements made from any frame material with a load capacity of up to 500 kg. To this end, it supplements the tried-and-tested hardware with two additional HS 400 compact bogie wheels and a comfort gear with two springs.

HS 250 compact bogie wheels

The cost-effective option for sash weights up to 250 kg.

The little brother HS 250 compact is the cost-effective option for light lift and slide sashes up to 250 kg.

Both bogie wheels have the same width and height dimensions, making it possible to work with a uniform bogie wheel groove during the production process.



Production benefits

- Shortened assembly time by dispensing with a tandem solution for 350–400 kg sash weight
- Up to 12 mm narrower and more efficient frame design while retaining the bottom sash stability

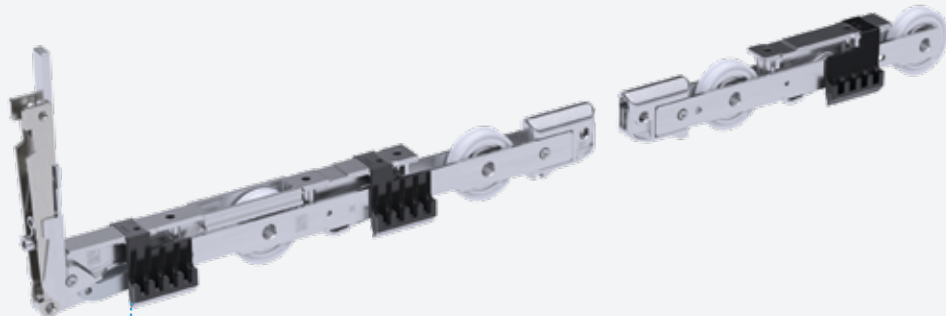
Production benefits

- For light lift and slide sashes up to 250 kg
- Can be used for narrow sash widths

Centering piece for the HS 350 bogie wheels

Optional accessories precisely coordinated with several PVC profile systems.

Simply clipped into place, the distance pieces guarantee the precise seating of the bogie wheels in the sash groove. In this way, they provide reliable protection against shear forces and prevent the frequently associated slightly inclined position of the bogie wheels. The precise seating of the bogie wheels means a high degree of smooth-running and ease of use.

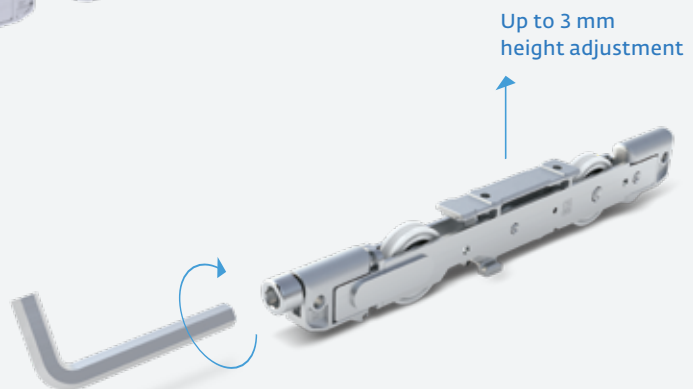


Simply clipped in and the bogie wheels are precisely seated in the sash groove.

Height-adjustable HS bogie wheels

Perfect precision adjustment.

The height-adjustable bogie wheels not only make the sliding motion smooth and effortless, they also significantly aid onsite assembly. Available for the HS 350, HS 250 compact and HS 400 compact bogie wheels.



Up to 3 mm height adjustment

Production benefits

- Easy operation
- Precise seating of the bogie wheels in the sash groove
- Secured vertically even in case of severe wind load

Production benefits

- Integrated precision adjustment with readjustment reserves of 3 mm for easy lifting of the sash in the rear area
- Saving time and cost due to faster and more flexible adjustment of the sash when assembling on site
- Tolerance compensation of a potential V-joint on the locking side is possible

Accessories

More comfort and fresh air.

Stop buffer

Elegant, discreet, easy to clean.

The new stop buffer stands for clear design benefits: directly integrated into the guiding rail, it is virtually invisible and gives lift and slide elements an elegant and discreet appearance. This also makes cleaning elements in the bottom profile area considerably easier. The new stop buffer is suitable for all SC guiding rails of the PORTAL HS system.

Suitable for the following profile systems:

PVC

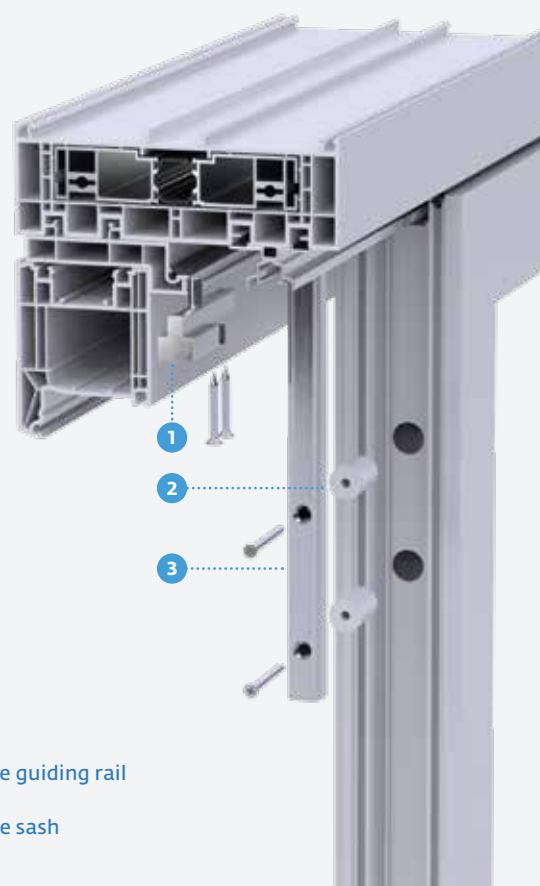
- Aluplast HST85
- Deceuninck HS476
- Gealan S9000
- Profine PremiDoor 76
- Profine PremiDoor 88
- Rehau Geneo
- Rehau Synego
- Salamander evolutionDrive: HST
- Schüco LivIngSlide
- Vekamotion 82

Timber

IV 68, IV 78, IV 80, IV 88, IV 92

Timber/aluminium

- Bug
- Gutmann
- Stemeseder



- 1 Stop buffer in the guiding rail
- 2 Distance pieces
- 3 Stop plate on the sash

Production benefits

- Virtually invisible because it is directly integrated in the guiding rail
- Elegant, discreet appearance
- Easy cleaning of the elements in the bottom profile area
- Suitable for all SC guiding rails of the PORTAL HS system

Night vent

Fresh air as standard.

PORTAL lift-and-slide systems can be fitted with a night vent as standard, which can be activated using the handle. Hence, a healthy indoor environment is provided with an air exchange of up to 265 m³/h conveniently and without annoying draughts.



Production benefits

- Achievable with standard gear or hook bolt gear

AEROMAT flex

The optionally integrated passive vent for user-independent ventilation.

User-independent ventilation can be achieved with the AEROMAT flex passive ventilation unit in addition to the manual night vent. The ventilation unit makes optimal use of the existing installation space and can be integrated in the element without milling grooves and virtually concealed. Fresh air supply is possible even with closed roller shutters or blinds and provides a high level of sound absorption up to 55 dB due to optional sound insulation modules. Depending on the ventilation unit version, the supply air opening is independently regulated by the humidity in the room.



Production benefits

- Can be used singly or in pairs, horizontally or vertically on the element in the existing installation space – without routing out
- Quick and easy assembly on site: flexible telescopic duct for 70 to 125 mm profile depth, optional duct extension for up to 235 mm profile depth

Accessories

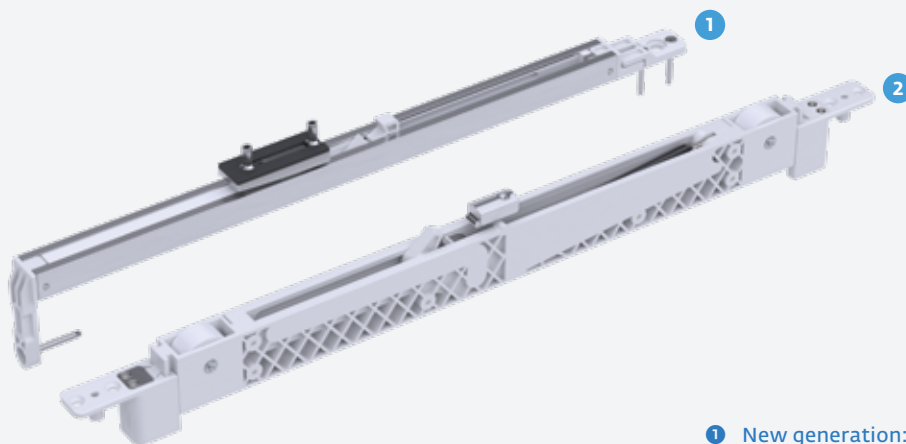
More comfort and freedom of design.

SOFT CLOSE function

Automatically slows down the sash before the end position, like a kitchen drawer.

The innovative SOFT CLOSE function that can be invisibly integrated into the sash consists of a trigger in the SC guiding rail and a damper. This brakes the sash gently just before the end position and then pulls it shut automatically. This minimises any risk of injury in the case of improper operation and precludes any material damage.

A further SOFT CLOSE generation is available alongside the tried-and-tested version. A distinction is made between a SOFT CLOSE compact and a SOFT STOP compact, which, can be used separated from or in combination with each other. SOFT STOP compact balances the functional mode of SOFT CLOSE compact and offers an attractive alternative, depending on the specific behaviour of the user. Both solutions with their low space requirement have been specially developed for lean profile systems and can be integrated into the sash without the need for milling. The triggers for the SOFT CLOSE or SOFT STOP function no longer need a special contour in the frame, meaning that this version is especially interesting for aluminium profile systems.



- ① New generation: SOFT CLOSE compact and SOFT STOP compact for lean profile systems
- ② Tried-and-tested SOFT CLOSE generation

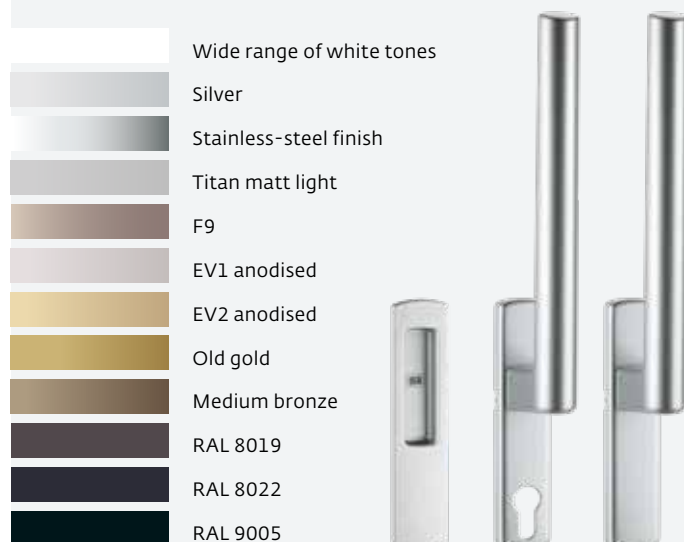
Production benefits

- Spring-mounted, it automatically adjusts to each sash position and tolerances
- Fully concealed and maintenance-free solutions
- Protects the lift and slide elements thus preventing material damage
- Possible for lean profile systems without milling

Handle

Quality you can feel instantly.

PORTAL HS handles provide noiseless locking and release, without any play, with outstanding functional reliability that lasts. They are perfectly coordinated with the lift and slide gear and the sash weight and are available in a large range of colours. There is also the option of painting at a later date for special requests. A wide range of sliding door configurations is possible due to the variety of variants available.



Production benefits

- Large choice of variants ranging to version with cylinder
- Perfectly coordinated with the hardware and the sash weight
- Available in a versatile colour range
- There is also an option of subsequent painting in the event of special colour requests

Black hardware components

For sophisticated living.

- Suitable for timber and timber-aluminium elements of the HS 4.0 system, these optionally available components enable the realisation of customised solutions tailored to the customer's requirements for modern architecture.
- **Available components:**
 - SC002 guiding rail, including concealed stop buffer and SOFT CLOSE trigger
 - Guides for SC002 guiding rail
 - Kubus Design covers or standard covers
 - Sealing rails DS28/48 and DS28/28 including security interlocks
 - Stop and adapter running rail
 - Sealing rail B / sealing rail axxent B including filling piece
 - Locking bolt or standard gear
 - DRIVE axxent LS components in the guiding rail
 - DRIVE axxent LS handle / operator push button
 - Black threshold available from Q2 2026



Production benefits

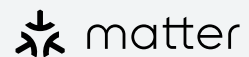
- Suitable for timber and timber-aluminium elements of the HS 4.0 system

DRIVE axxent LS

A fully concealed drive for lift and slide elements made of timber, PVC or aluminium.

Designed to look good. Made to perform. The DRIVE axxent LS which also meets the requirements of DIN 18040 for accessibility, has been completely redeveloped to reflect this philosophy. The battery-operated motor is completely concealed within the sash and moves large elements both quickly and extremely quietly. The discreet operating button is the only indication that this is a motorised element.

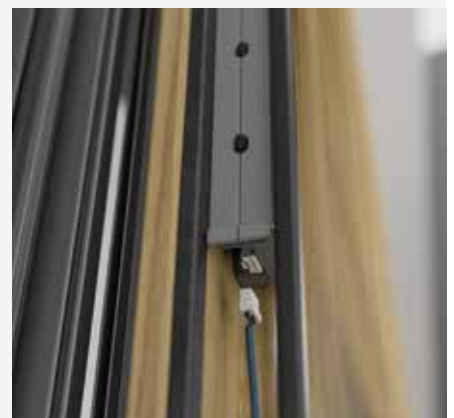
The DRIVE axxent LS smart version is Matter-compatible and can be integrated into existing smart home systems. End users can control it intuitively via an app, voice assistant or remote control.



Benefits

- Lift and slide drive integrated in the sash
- Operating button with LED indication
- 3-second lifting action, low-noise operation
- Customised programming
- Compliant with the requirements of DIN 18040 for accessibility
- Electronic jam protection feature
- Continuous condition monitoring
- Compatible with Matter smart home standard
- Intuitive control via app, voice assistant or remote control
- Simple setup via QR code

What's special about this is that it doesn't just look like a manual solution. There is hardly any difference in the production process either. No different frames, no covers and no special design. All the components in the DRIVE axxent LS are easy to integrate into standard profile systems and connect with Plug & Play. From manual to motorised in just 20 minutes.



Production benefits

- For elements with SC guiding rail
- Suitable for timber, PVC and aluminium elements
- Also for slim 60 mm profiles
- For sash weights up to 400 kg
- Delivered pre-assembled, ordering process via configurator
- Fitting time only about 20 minutes longer than for a manual element
- Simple Plug & Play connection between the individual components
- Simple set-up process using operating button



PORTAL ECO SLIDE, ECO SLIDE CO

More options and cost-effectiveness
for sliding windows and doors.

Ease of use and compression perfectly combined.

The explicitly cost-effective and assembly-friendly sliding hardware of the PORTAL ECO SLIDE consistently brings the ease of use of lift and slide systems and the compression of Parallel slide and tilt systems consistently under one umbrella. The combination of special bogie wheels and innovative guiding and locking elements ensures intuitive operation with night vent function as standard. The assembly is very easy and cost-effective for both ECO SLIDE systems.

Versatile opportunities, for perfect utilisation of the space.

PORTAL ECO SLIDE and ECO SLIDE CO provide more freedom of design; especially when used in window systems where the hardware saves considerable space in interior rooms. Because when sashes do not pivot inwards, but easily and smoothly slide alongside each other, every centimetre on the window can be used. In this way, the system presents an interesting comfort option to turn and tilt systems. ECO SLIDE is also a good alternative to other systems in the door market with its attractive appearance, its intuitive operation and its night vent function.

PORTAL ECO SLIDE, ECO SLIDE CO

Product overview.



Planning and production

	PORTAL ECO SLIDE	PORTAL ECO SLIDE CO
Opening type	Slide	Slide
Profile	PVC profile systems: Profine, Deceuninck, Aluplast, aluminium systems: for profiles with 16 mm fittings groove	PVC profile systems: Aluplast, Gealan, Profine Rehau, Salamander, Schüco, Veka timber systems: IV 68 und IV 78 from Q4 2026, aluminium systems in preparation
Sash rebate width in mm	680–2,500	640–2,130 (profile system dependent)
Sash rebate height in mm	1,200–2,500	460–2,600 (profile system dependent)
Sash weight in kg maximum	150/250	150/250
handle position	constant 300, 400, 500 or 1,000 mm	constant 300, 400, 500 or 1,000 mm
Quality assurance	QM 346 certified (H2), corrosion class 5	QM 346 certified (H2), corrosion class 5
Schemes	A, K	A, K, C

Options for greater room comfort

Handle lockable from the inside and outside	⊙	⊙
SOFT CLOSE / SOFT STOP function	⊙	SOFT STOP
Night vent	⊙	–
positive control	⊙	⊙
Burglary resistance	–	RC2
Special features	Possible as sliding window or sliding door, concealed bogie wheels and innovative guiding and locking elements	Possible as sliding window or sliding door, elegant, continuous locking rails without visible screwing Solution with threshold is possible for timber elements

Benefits

- Cost-effective solution for sliding windows or sliding doors with sash weights of up to 250 kg – depending on profile system
- Small number of components for quick and easy assembly
- High energy efficiency due to continuous seal for high compression
- Innovative guide and locking elements on each sash side for enhanced compression
- Intuitive operation: also suitable for frequently changing user groups
- Night vent as standard for ECO SLIDE
- Profile system dependent with SOFT CLOSE for ECO SLIDE and SOFT STOP for ECO SLIDE CO: slows down the sash and prevents the sash from slamming onto the frame
- Can be combined with narrow profiles for maximum light incidence



PORTAL ECO SLIDE

Innovative guide and locking elements:
convenient, sealed and secure.



The extremely cost-effective hardware solution PORTAL ECO SLIDE brings the ease of use of lift and slide systems and the compression of Parallel slide and tilt down to one single common denominator, even for sliding windows. This is provided by the assembly-friendly, perfect combination of a unique seal, special bogie wheels and innovative guiding and locking elements at all four sash corners.

Production benefits

- Integrated height adjustment with optimised adjustment options
- The 16 mm eurogroove is identical to that used in turn-and-tilt windows: no modifications required



Moving practically by themselves: sliding elements with ECO SLIDE are distinguished by the optimum gliding motion and high ease as far as the locking position, which is additionally safeguarded by horizontal centre locks.

Bogie wheels

Ensure easy and smooth gliding.

The ECO SLIDE bogie wheels gently absorb the put-down movement of the sash by a side movement and ensure silent gliding. The necessary transfer of load up to 150 kg sash weight is achieved with two bogie wheels; from 150 to 250 kg with four bogie wheels. Moreover, ECO SLIDE bogie wheels are especially low-maintenance and function without greasing. Consequently, they do not attract dirt that could impair operation.



- ① Guiding elements
- ② Locking elements
- ③ Centre locks

Robust guiding and locking elements draw the sash to the frame and seal perfectly. Horizontal centre locks supplement the four strikers for the guiding elements.



Production benefits

- Three screwing variants are possible: in the eurogroove, in the groove base or laterally (picture)
- Load-bearing capacity up to 150 kg with two bogie wheels; 150 – 250 kg with four bogie wheels
- Fixing of the axial movement of the rollers for easy insertion of the sash
- Grooves for sealing brushes available

PORTAL ECO SLIDE CO

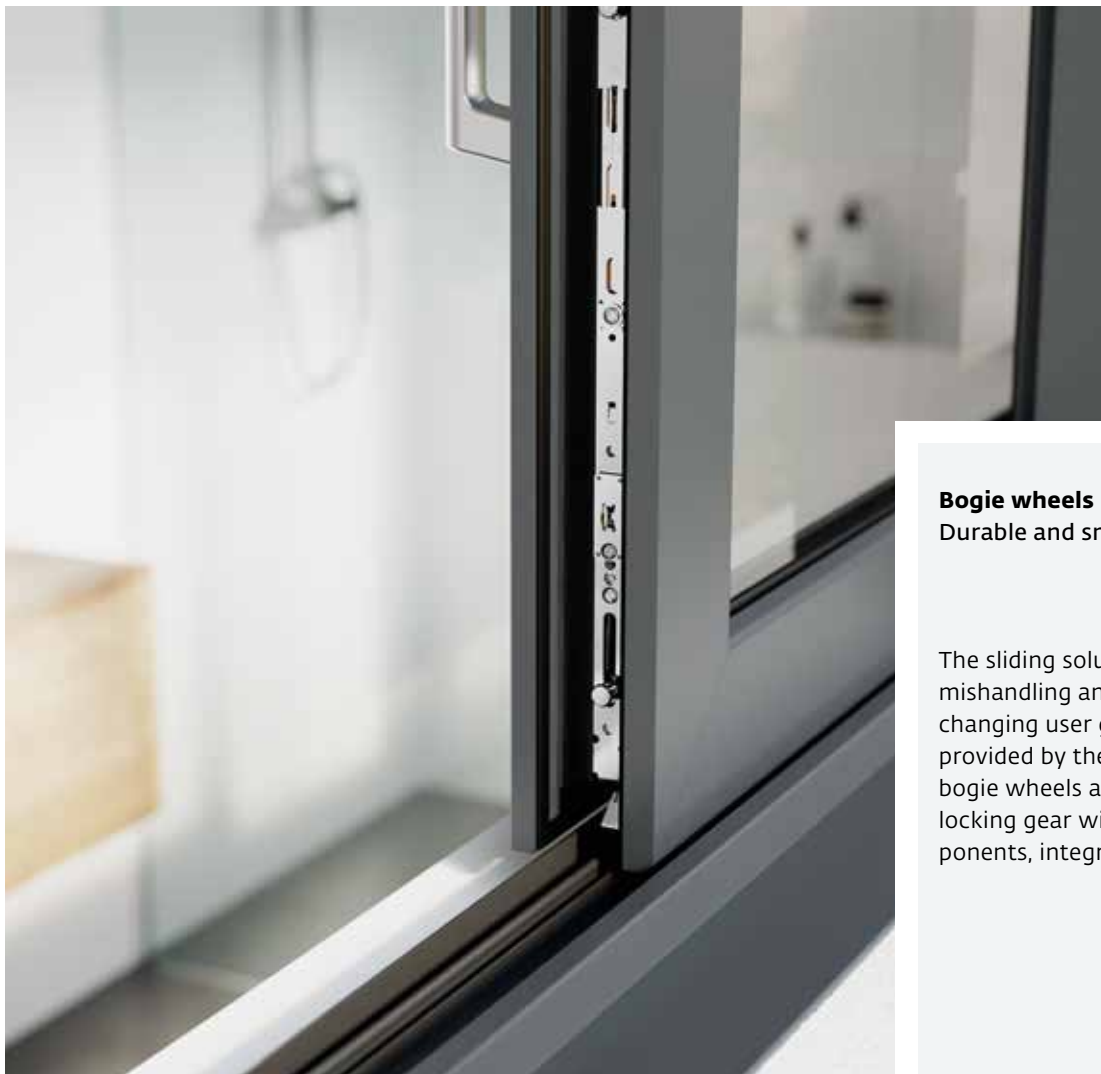
With TITAN central locking gear:
versatile, sturdy, time-saving.



PORTAL ECO SLIDE CO combines the smooth-running and intuitive operation of a sliding solution with the benefits of turn-and-tilt hardware. The wraparound sash hardware is based on the TITAN central locking gear and only needs a few additional components. This means it ensures efficient processes from lean warehousing to easy assembly.

Production benefits

- Versatile offerings: available for a wide range of profile systems
- Lean warehousing thanks to few additional components and only one multifunctional rail for the striker packer of the frame hardware
- Easy assembly: quick installation and simple hardware adjustments
- Modular configuration of standard, design and burglar resistant hardware for lean and secure processes
- Pre-assembled COMFORT UNIT for ECO SLIDE CO timber elements



Bogie wheels

Durable and smooth operation.

The sliding solution is resistant to mishandling and very suitable for changing user groups. This is also provided by the pivot-mounted bogie wheels and the TITAN central locking gear with the sliding components, integrated in the linkages.



Design-oriented version:

The strikers without visible screwing and the continuous locking rails on the locking side and in the centre part combine safe functioning with a contemporary appearance.

Production benefits

- No canting: resistant against asynchronous starting and stopping
- Protection of the hardware
- Outside grease and maintenance-free bearing positions
- No contamination and blocking

Accessories

For ease of use and a healthy indoor environment.

SOFT CLOSE function for ECO SLIDE

Gently slows down the sash and automatically guides it reliably into its end position.

The innovative SOFT CLOSE function that can be invisibly integrated into the sash consists of a trigger in the top guide rail and a damper. It reduces the speed of the sash when closing or opening just before the frame and guides it safely into its end position. This minimises any risk of injury in the case of improper operation and precludes any material damage.

SOFT STOP function for ECO SLIDE CO

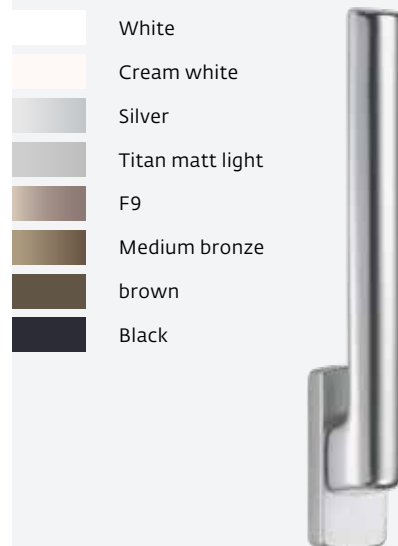
Gently slows down the sash.

The innovative SOFT STOP function slows down the sash according to the sash weight and the operating speed. This minimises any risk of injury in the case of improper operation and precludes any material damage.

Handle

Perfectly coordinated with the hardware and the sash weight.

PORTAL handles combine a noiseless ease of use free of play with high functional safety. They are available in a wide range of colours and there is also an option of painting in the event of special colour requests.



Production benefits

- Fully concealed, but easy to access and therefore easy to adjust
- Maintenance-free thanks to oil-lubricated gas pressure spring
- Protects the ECO SLIDE elements thus preventing material damage

Production benefits

- Large choice of variants ranging to version with cylinder
- Perfectly coordinated with the hardware and the sash weight
- Available in a versatile colour range
- There is also an option of subsequent painting in the event of special colour requests

Night vent

Fresh air as standard.

PORTAL ECO SLIDE sliding systems are equipped with a night vent function as standard that is simply selectable via the handle. Hence, a healthy indoor environment is simply provided at any time via the handle without annoying draughts.



Production benefits

- Integrated as standard
- Operating function easily explained

AEROMAT flex

The optionally integrated passive vent for user-independent ventilation.

User-independent ventilation can be achieved with the AEROMAT flex passive ventilation unit in addition to the manual night vent. The ventilation unit makes optimal use of the existing installation space and can be integrated in the element without milling grooves and virtually concealed. Fresh air supply is possible even with closed roller shutters or blinds and provides a high level of sound absorption up to 55 dB due to optional sound insulation modules. Depending on the ventilation unit version, the supply air opening is independently regulated by the humidity in the room.



Production benefits

- Can be used singly or in pairs, horizontally or vertically on the element in the existing installation space – without routing out
- Quick and easy assembly on site: flexible telescopic duct for 70 to 125 mm profile depth, optional duct extension for up to 235 mm profile depth



PORTAL PS/PSK comfort

Parallel slide and Parallel slide and tilt systems
For intuitive operation and fabrication.

The PORTAL PSK comfort: from its modular system to operation, it's simply in a class of its own.

The PSK comfort generation offers you a hardware concept which is truly unique, from the modular configuration to the gentle and protective operation. The innovative comfort components make the opening and closing process especially safe and easy as well as offering you a wide range of scalability options. Because you can elevate your basic equipment, according to customer requirement, with just a few additional parts very quickly and flexibly to the maximum level of comfort.

**PORTAL PS 200 comfort:
intuitive operation even for changing user groups.**

Less is often more. With the parallel sliding hardware PORTAL PS 200 comfort, this means: the reduction to the basic function of sliding. Because, with this hardware, even large sliding elements can be operated with ease and intuitively solely via the 90° rotation of the handle. Misuse is practically impossible even in the case of frequently changing user groups. Moreover, with PORTAL PS 200 comfort, you will benefit from a very efficient and flexible hardware concept that converts the basic equipment into a comfort variant, which meets even the highest demands at any time with only a few quickly mounted additional parts.

Clever comfort components.

Thereby, you enable even higher sash weights to swing in or out gently and evenly with deceleration. The entire running motion is stabilised and sash overshoot is prevented at the same time. This minimises wear and elevates the room comfort to a high standard.



PORTAL PS/PSK comfort

Product overview.



Planning and production	PORTAL PSK 100/130 comfort	PORTAL PSK 160 comfort	PORTAL PSK 200-Z comfort
Opening type	Parallel slide and tilt	Parallel slide and tilt	Parallel slide and tilt
Profile	Timber, PVC	for turn and tilt profiles with 16 mm Fittings groove	for turn and tilt profiles with 16 mm Fittings groove
Sash rebate width in mm	670–1,200	670–2,000	770–2,000
Sash rebate height in mm	840–2,360	840–2,800	1,000–2,360
Sash width in mm	–	–	–
Sash height in mm	–	–	–
Sash weight in kg maximum	100/130	160	200
Quality assurance	QM-347 certified (H3) Corrosion class 5	QM-347 certified (H3) Corrosion class 5	QM-347 certified (H3) Corrosion class 5
Schemes	A, C, G, K	A, C, G, K	A, C, G, K
Frame to sash clearance in mm	125	125	125 118 (ALU)
35 mm space requirement for running rail	⊙	⊙	⊙
Self-cleaning roller	⊙	⊙	⊙
Special features	–	–	with force-controlled stays

Options for greater room comfort

Achievable resistance class in accordance with EN 1627–1630	–	RC2	RC2
Handle lockable from the inside and outside	⊙	⊙	⊙
SOFT CLOSE function	–	⊙	–
Night vent	–	⊙	–
Opening and locking monitoring system AEROCONTROL	⊙	⊙	⊙
positive control	–	–	⊙
Intuitive operation	–	⊙	⊙

Benefits

- Intuitive ease of use due to additional comfort components
- Very quiet running motion and smooth action when swinging open and closed
- Customised solutions for different sash weights
- Easy scalability due to innovative comfort components
- High level of basic security as standard, easy to upgrade up to RC2
- Simplified installation: bogie wheels with height and tilt adjustment and a self-supporting running rail without support profile up to 160 kg (profile system dependent)
- Standard turn-and-tilt hardware can be used for the central locking gear
- Maximum flexibility: with 125 mm frame-to-sash clearance and small dimensions, making it ideal for extremely narrow or deep-set sash profiles

PORTAL PS 200 comfort

Parallel slide

for turn and tilt profiles with 16 mm
Fittings groove

–

–

670–2,000 (up to 160 kg)
770–2,000 (> 160 kg)

840–2,800

200

QM-347 certified (H3)
Corrosion class 5

A, C, G, K

125
118 (ALU)

⊙

⊙

–

RC2

⊙

⊙

⊙

⊙

–

⊙

Frame clearance of just 35 mm

These 35 mm do not only reduce the threshold height and allow larger glass surfaces to be inserted. The use of narrow and more economical frame profiles is also possible.



Comfort components

Also provide more ease in production.

Connecting rod sliders

Quiet, smooth sliding.

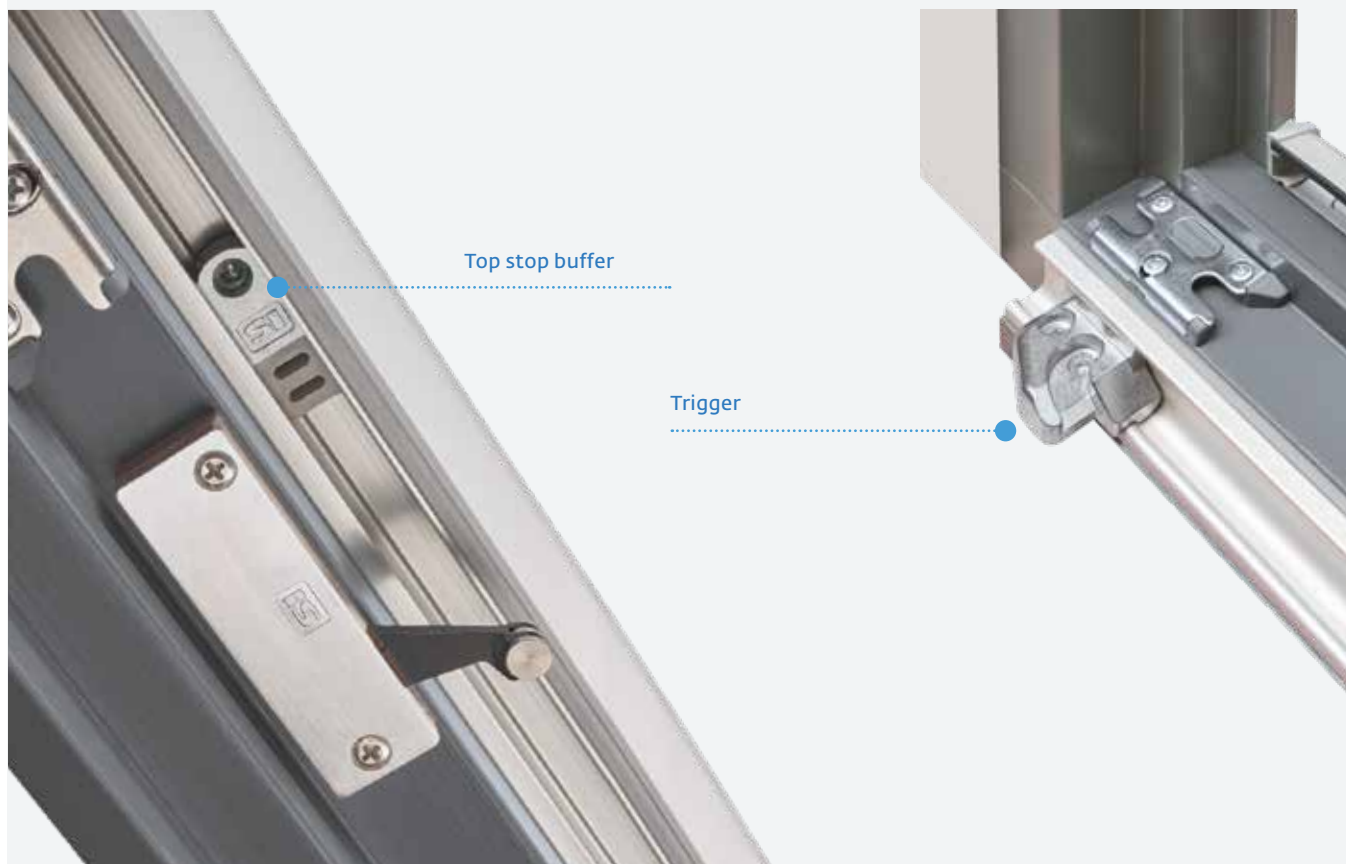
To ensure that operation is child's play even for unfamiliar and frequently changing users upon the first touch, it is essential that it functions intuitively as well as safely. With the PORTAL PS/PSK comfort, the ease begins in production. Because the smart comfort components are so easy to assemble, thus making maximum comfort supremely efficient.

The two sliders are synchronised in the guide rail via a connecting rod. This provides additional smooth and stable sash guidance.

Trigger

Swings open and closed smoothly.

On the locking side, there is a special trigger in the running rail and a stop buffer integrated in the guiding rail at the same time, which mutually ensure smooth swinging.



Stop buffer

Dampened and safe stopping.

A stop buffer, integrated in the guide rail on the hinge side, stops the slider and therefore the sash particularly gently at the top and bottom. A further stop buffer on the locking side is another possibility in order to enable the sash, as an additional trigger, to swing open and closed more gently.

Additional brakes

Soft pivoting for minimum overshoot.

Slam-shut brakes, positioned diagonally to each other at the top of the locking side and at the bottom of the opposite side brake the sash, enabling gentle swinging and minimising overshoot.

Running and guiding rail

More quietness and stability.

In interaction with the stable running rail, the specially coated guide rail supports smooth sash motion and steers sash weights of up to 200 kg safely on the right tracks without problems.

Additional brake



Handle and gear

So that every user gets the hang of it.

Handle

Intuitive ease of use.

PORTAL PS/PSK comfort handles combine a noiseless ease of use free of play with lasting high functional safety and modern design. They are available in a wide range of variants extending to the version with cylinder as well as in a large range of colours. They therefore ideally adapt to the living space and the hardware covers.

PSK100/130/160 comfort:

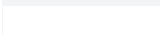
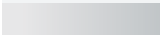
- Opening and sliding of the sash after 90° rotation of the handle
- A further 90° rotation allows the sash to be tilted
- SIEGENIA central locking gear from standard turn and tilt components

PS 200 comfort:

- Opening and sliding of the sash after 90° rotation of the handle
- SIEGENIA central locking gear from standard turn and tilt components

PSK 200-Z comfort:

- A 90° rotation of the handle brings the sash automatically into the tilt position
- A further 45° rotation allows the sliding of the sash

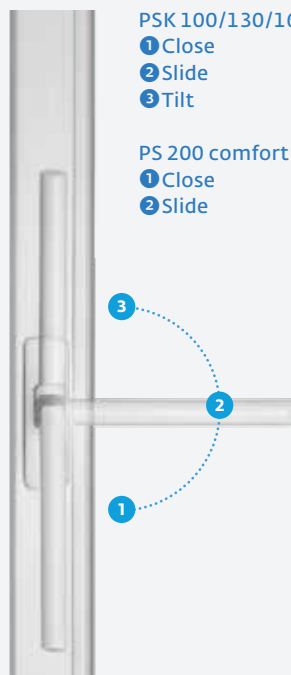
	Signal white
	Cream white
	Silver
	F9
	Old gold
	Medium bronze
	brown

PSK 100/130/160 comfort

- 1 Close
- 2 Slide
- 3 Tilt

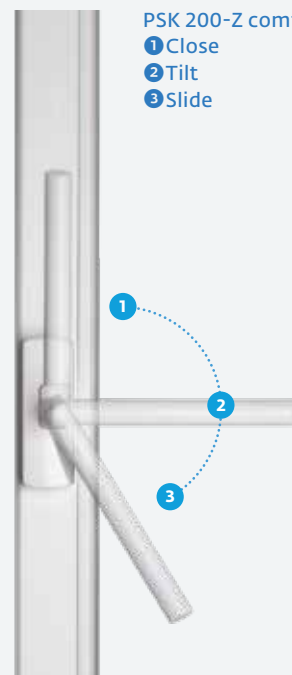
PS 200 comfort

- 1 Close
- 2 Slide



PSK 200-Z comfort

- 1 Close
- 2 Tilt
- 3 Slide



PZ gear set PSK 200-Z comfort

Minimum operating force when tilting and locking.

In the PSK 200-Z version the stays are force-controlled via the hardware, meaning that the sash is automatically moved into the tilt position by a 90° handle rotation. After a further 45°, the sash can be moved. This allows convenient single-handed operation of sash weights up to 200 kg.

**Production benefits**

- 30, 35, 40, 45 and 50 mm backsets for optimal adaptation to profile requirements
- Also lockable in tilt position
- For adaptation to standard linkages
- Low logistics costs

Comfort mushroom cam

The only locking part that compensates the tolerances itself and makes robust burglar resistance durably smooth-running.

The unique comfort mushroom cam from the TITAN family offers great benefits in the smallest space: with a sturdy mushroom head, its roller function and continuous height adjustment, which automatically balances the airgap tolerances or changed conditions. This minimises the installation work and ensures an optimally adjusted and smooth-running locking system. In this way, the comfort mushroom cam combines lasting high ease of use with consistent burglar resistance and maximum efficiency in production like no other.

**Production benefits**

- Ensures straightforward and absolutely precise installation with its continuous height adjustment
- Compensates air-gap tolerances independently, therefore simplifying installation
- Prevents costly and time-consuming complaints

Stays and bogie wheels

More comfort and frame to sash clearance.

Stays

High-performance solutions up to 160 kg or 200 kg.

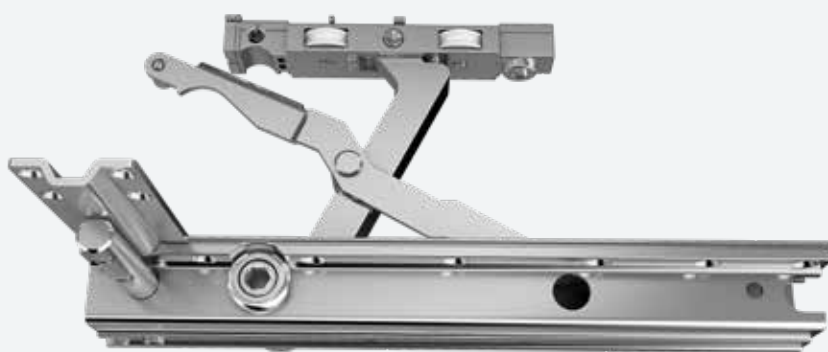
The laser-welded stays are extremely secure components due to the combination of high-quality materials like brass and high-tensile steel. They are available in two versions: the PS-/PSK stay allows sliding up to 200 kg and tilting up to 160 kg. Tilting up to a sash weight of 200 kg is possible in the PSK 200-Z version.



Bogie wheels

High ease of use and frame to sash clearance with small dimensions.

With their diameter increased by up to 25 %, the new PORTAL PS/PSK comfort rollers make the sliding even smoother and easier. Positive-locking metal bogie wheel safeguards securely and durably hold the bogie wheels in the running rail and allow the sash to be tilted without tension with PSK comfort hardware. For sash weights up to 160 kg, the running rail does not need a support profile as a rule and the large frame to sash clearance of 125 mm permits use in deeper, highly insulated profiles.



Production benefits

- Rational assembly: optimum screw positions and an assembly fixing
- 125 mm frame to sash clearance: also suitable for elements with very deep sash profiles

Production benefits

- Simplified assembly: height and tilt adjustment for optimum adaptation to the weight and size of the sash
- Maximum flexibility: with 125 mm frame-to-sash clearance and small dimensions, making it ideal for extremely narrow or deep-set sash profiles
- Self-supporting running rail up to 160 kg; no support profile required (profile system dependent)

Accessories

For a healthy indoor environment.

AEROMAT flex

The optionally integrated passive vent for user-independent ventilation.

User-independent ventilation can be achieved with the AEROMAT flex passive vent. The ventilation unit makes optimal use of the existing installation space and can be integrated in the element without milling grooves and virtually concealed. Fresh air supply is possible even with closed roller shutters or blinds and provides a high level of sound absorption up to 55 dB due to optional sound insulation modules. Depending on the ventilation unit version, the supply air opening is independently regulated by the humidity in the room.



Production benefits

- Can be used singly or in pairs, horizontally or vertically on the element in the existing installation space – without routing out
- Quick and easy assembly on site: flexible telescopic duct for 70 to 125 mm profile depth, optional duct extension for up to 235 mm profile depth

Secured night vent - TITAN vent secure

Supplying fresh air whilst providing burglar-resistance.

High burglar resistance and healthy ventilation are no longer a contradiction in terms. Because with the secured night vent, TITAN vent secure, you can leave your tilt sash cracked open and still be well protected against burglary, vandalism, rain and draughts. Through TITAN vent secure, tested, scalable burglar resistance from basic security to up to RC2 is achieved, not only in the locked position but also in the 10 mm tilt gap position. The intuitive operation corresponds to the familiar turn and tilt operation and the appearance of the sliding door remains unchanged.



Production benefits

- Implemented using special frame parts, no additional parts required
- Simply upgradeable solution



PORTAL FS^{PLUS}

The fold-and-slide hardware for large opening widths and full flexibility.

Larger opening width, more freedom of design.

With the PORTAL FS^{PLUS}, fold and slide elements with up to seven elements can be folded together easily up to a sash weight of 80 kg and can also be used with a low threshold if desired. This results in opening widths of up to 6.3 m and just as much freedom of design. The efficient assembly technology makes fabrication very flexible, quick and cost-effective. The hardware covers can be painted in different colours and the high-quality surfaces are also suitable for long-term use in outside areas due to the use of new materials and coating techniques. This opens up all options for outward opening fold and slide elements and consequently additional business opportunities.



Up to 6.3 m free thoroughfare.

All elements can be easily folded inward or outward. Every centimetre of the width of the space is useable as there is no post standing in the way.

PORTAL FS^{PLUS}

Product overview.

Benefits

- Up to 6.3 m opening width
- Up to 80 kg sash weight
- Especially smooth sash running: top or bottom, same profile set
- Maintenance-free sash hinges due to PVC bearing
- The efficient assembly technology provides more flexibility and cost-effectiveness
- Available in a highly corrosion-resistant stainless-steel finish
- Turn-and-tilt sash can be integrated
- Low threshold version is possible



Planning and production

PORTAL FS ^{PLUS}	
Opening type	Fold and slide
Profile	for turn and tilt profiles with 16 mm fittings groove
Sash rebate width in mm	up to 900
Sash rebate height in mm	840–2,360 (sash rebate height) ALU: 850–2,400 (sash rebate height)
Maximum sash weight	80 kg per sash
Quality assurance	QM 345 certified (H3), corrosion class 5
Schemes	220*, 321, 330, 431, 440*, 532, 541, 550, 633, 651, 660*, 743, 761, 770
Top and bottom running	⊙

Options for greater room comfort

Handle lockable from the inside and outside	⊙
Opening and locking monitoring system AEROCONTROL	⊙
Special features	Turn-and-tilt sash can be integrated, inward and outward opening achievable

* Profile-specific clarification is required

Folding hinges

Maintenance-free, weather-resistant and can also be outward opening.

With their special friction bearings, PORTAL FS^{PLUS} rebate hinges guarantee a high standard of noiseless and long-lasting use. The rebate hinges are maintenance-free thanks to their innovative plastic bearing. The hardware components are weather-resistant due to their high-quality surface technology and are also available in a highly corrosion-resistant stainless-steel finish. A turn-and-tilt sash can also be integrated in PORTAL FS^{PLUS} elements, without any problems, for even more freedom of design.

Also outward opening.

The fold and slide elements can also be designed to be outward opening thanks to the high-quality surface technology. Burglar resistance is further prioritised in these elements through the use of bolt security and special screws. Because the hinges can only be removed when the sash is open.



Threshold and bogie wheels

More ease of use and freedom of movement.

Threshold

Low passage way height and high thermal insulation.

The thermally separated threshold for fold and slide elements with its low passage way height enables a barrier-free version and prevents the formation of condensation.

Bogie wheels

Running comfort on ball bearings.

The large bogie wheels made of special plastic on ball bearings ensure especially smooth running of the sashes and also minimise installation time. The brush elements keep the running rail free from dirt and dust and contribute to a continual ease of use.



Production benefits

- Low threshold version is possible

Production benefits

- Minimum installation time thanks to large, ball-bearing bogie wheels
- Integrated brush elements to clean the running rail

Handle and locking system

Attractive, secure and smooth-running.

Handle

Quality you can feel instantly.

PORTAL FS^{PLUS} handles combine a noiseless ease of use free of play with lasting high functional safety and are perfectly coordinated to the hardware and the sash weight. The handles are available in a large range of colours and perfectly match the handles of the turn and tilt programme in design.



Production benefits

- Large choice of variants ranging to version with cylinder
- Perfectly coordinated with the hardware and the sash weight
- Available in a versatile colour range
- Match the handles from the turn and tilt range in terms of colour and design

Comfort mushroom cam

The only locking part that compensates the tolerances itself.

The unique comfort mushroom cam from the TITAN range combines high ease of use with consistent burglar resistance: with a sturdy mushroom head, its roller function and continuous height adjustment, which automatically balances the airgap tolerances. This minimises the installation work and ensures a permanent smooth-running locking system.



Production benefits

- Ensures straightforward and absolutely precise installation with its continuous height adjustment
- Compensates air-gap tolerances independently, therefore simplifying installation
- Prevents costly and time-consuming complaints



PORTAL CS

The economical solution for upgrading conventional sliding elements.

Conveniently ensuring more comfort.

The PORTAL CS sliding hardware allows you to convert basic sliding windows and doors into high-quality sliding elements using an economical system. Height-adjustable bogie wheels on ball bearings mean that timber or PVC elements with sash weights up to 150 kg can be moved with ease. Up to four special-steel locking hooks and an integrated anti-lift device provide the necessary security and can be operated very conveniently via the different handle versions.

We also offer matching solutions for aluminium elements with sash weights of up to 100 kg: the PORTAL CS ALU hardware range and its special locking sides. The locking hooks and locking parts are made out of stainless steel and the millable, clampable recessed handle has a locking indicator.



The sliding system for more ease of use and long service life for timber, PVC and aluminium profiles up to 150 kg sash weight.

PORTAL CS

Product overview.

Bogie wheels

With very smooth-running rollers on ball bearings for lasting comfort.

With the PORTAL CS 150 version, weights up to 150 kg can be moved easily and safely using the height-adjustable bogie wheels on ball bearings. With the PORTAL CS 80, there is also a variant available for smaller elements to flexibly adapt the sliding system to individual requirements.



Planning and production	PORTAL CS 80	PORTAL CS 150	PORTAL CS ALU
Opening type	Slide	Slide	Slide
Profile	Timber, PVC, aluminium; for profiles with 16 mm Fittings groove	Timber, PVC, aluminium; for profiles with 16 mm fittings groove	Aluminium with ALU eurogroove
Sash weight in kg maximum	80	150	100
handle position	variable, centre	variable, centre	variable, centre
Schemes	A, C, D, K	A, C, D, K	A, C, D, K
Gear with locking hook	⊙	⊙	—
Special features	Stainless steel bogie wheels	—	Recessed handle that can be milled and clamped
Height-adjustable bogie wheels with rollers on ball bearings	⊙	⊙	⊙

Gear

Reliable, sturdy and convenient.

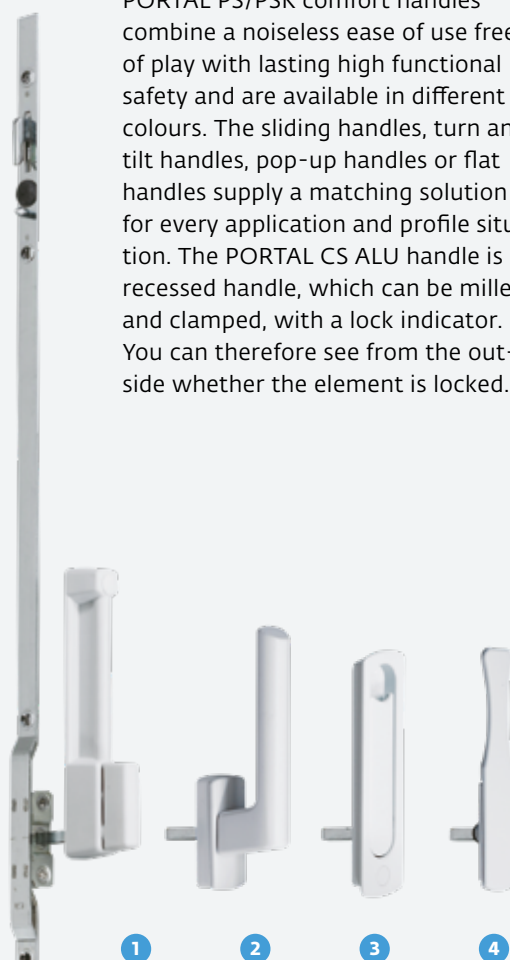
The PORTAL CS 80 and CS 150 gear is suitable for profiles with 16 mm fittings groove in all frame materials. It is equipped with up to four locking hooks made of special steel, an integrated security lock and is also available as a lockable version. Integrated stop buffers increase the ease of use. The locking hooks and locking parts of the PORTAL CS ALU are made out of stainless steel.



Handle

Solutions for every requirement.

PORTAL PS/PSK comfort handles combine a noiseless ease of use free of play with lasting high functional safety and are available in different colours. The sliding handles, turn and tilt handles, pop-up handles or flat handles supply a matching solution for every application and profile situation. The PORTAL CS ALU handle is a recessed handle, which can be milled and clamped, with a lock indicator. You can therefore see from the outside whether the element is locked.



- ① Tilt and slide handle
- ② Turn and tilt handle
- ③ Pop-up handle
- ④ Flat handle



PORTAL for aluminium.

The basis for big ideas for all opening types.

Everything from one source: PORTAL and the complete ALU range.

PORTAL also opens up a particularly wide performance spectrum for aluminium sliding elements, which offers you more options for a high standard of room comfort in all opening types, sizes and weight classes with low expenditure. Because PORTAL is also an important building block in our ALU complete range. This covers all size ranges from high-quality sliding door and window hardware to intelligent locking systems for entrance doors. With a versatility that delivers the right solution for every safety, comfort and design requirement with ease and consequently will also be the ideal basis for great ideas in the future.

Complete freedom and innovations: for more than 50 years.

Aluminium is the material that lends pioneering concepts to sashes. For this purpose, visions of the future and practical suitability must be perfectly coordinated. The know-how of over 50 years of consistent development work is contained not just in every component, but also in the modular system, in order to fulfil these requirements. Thanks to targeted innovations and individual special solutions, ALU opens all possibilities to distinguish yourself in the market.



Large lift and slide elements with smart motors.

PORTAL brings more light and ease of movement into clear design concepts. With our drive systems even sash weights up to 400 kg can be motor operated, depending on the version also by radio remote control or by app.



Portal HS ALU

Lift and slide system for aluminium.

Opening type	Lift and slide
Max. overall width	19800 mm (for scheme L)
Sash width	590–3,335 mm
Sash height	1,175–3,325 mm
Max. sash weight	400 kg
Quality assurance	QM346 certified (H3) Corrosion class 5

Benefits

- Scalable load capacity up to 200 kg, 300 kg or 400 kg
- Possible in schemes A, C, D, G and E
- Small number of components and high level of pre-assembly
- Smooth, safe operation
- Night vent as standard
- High level of basic security as standard, upgradeable up to RC3 depending on the profile system
- Profile system dependent with SOFT CLOSE function



Portal ECO SLIDE ALU, ECO SLIDE CO ALU

Sliding system for aluminium.

Opening type	Slide
Max. overall width	10,000 mm (for scheme K)
Sash width	680–2,500 mm / 640–2,130 mm (profile system dependent)
Sash height	1,200–2,500 mm / 460–2,442 mm (profile system dependent)
Max. sash weight	250 kg / 200 kg
Quality assurance	QM-346 certified (H2) Corrosion class 5

Benefits

- Cost-effective solution for sliding windows or sliding doors
- Possible in scheme A
- Small number of components and high level of pre-assembly
- High energy efficiency due to continuous seal
- Innovative guiding and locking elements
- Intuitive operation: ideal for changing users
- Night vent as standard
- Profile system dependent with SOFT CLOSE function



PORTAL PS/PSK comfort ALU

Parallel slide and Parallel slide and tilt systems for aluminium.

Opening type	Parallel slide Parallel slide and tilt
Max. overall width	8,000 mm (for scheme C/K)
Sash width	670–2,000 mm
Sash height	840–2,800 mm
Max. sash weight	PORTAL PS: 200 kg PORTAL PSK: 200 kg (profile system dependent)
Quality assurance	QM-347 certified (H3) Corrosion class 5

Benefits

- Possible in schemes A, C, G and K
- Scalability due to innovative comfort components
- Bogie wheels with height and tilt adjustment
- 125 mm frame to sash clearance and small dimensions: also suitable for extremely narrow or deep-set sash profiles
- Running rail height of only 29 mm
- Intuitive operation: very quiet running motion and swings open and closed gently
- High energy efficiency due to continuous seal
- High level of basic security as standard, upgradeable up to RC2



PORTAL FS^{PLUS} ALU

Fold and slide hardware for aluminium.

Opening type	Fold and slide
Max. overall width	6,300 mm
Sash width	330–900 mm
Sash height	840–2,400 mm
Max. sash weight	80 kg
Quality assurance	QM-345 certified (H3) Corrosion class 5

Benefits

- Possible in different schemes
- Up to 6.3 m opening width and 80 kg sash weight
- Especially smooth sash running: top or bottom, same profile set
- Only 26 mm threshold height
- Maintenance-free sash hinges due to PVC bearing
- Available in a highly corrosion-resistant stainless-steel finish
- Turn-and-tilt sash can be integrated
- Barrier-free threshold version is possible

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