

PORTAL creates
space³

PORTAL sliding door hardware:
more ease and freedom of design
for modern architecture.



window systems

door systems

comfort systems

Experience
room comfort.
We bring spaces
to life.





For the room comfort of the future.

Our products and solutions bring spaces to life and give people a sense of well-being. This is our drive and inspiration but also the key to permanent success together with our customers.

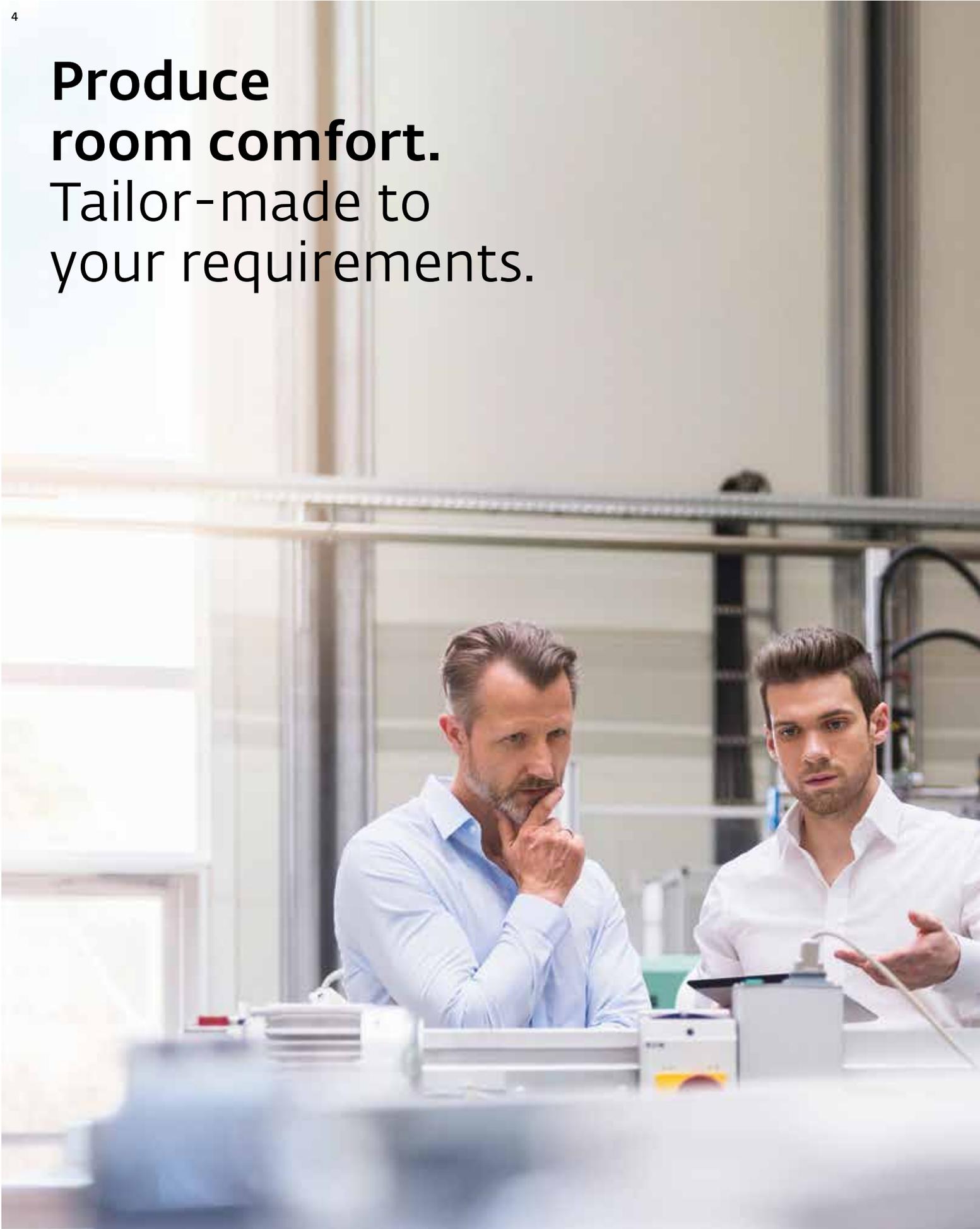
Our instinct for the requirements of the market, the developments of the future and for the demands of our customers has made us one of the leading international innovation providers today. We owe this to a staff of more than 2,800 in around 80 countries and to the intensive exchange of ideas with our partners and customers.

More than 100 years of experience.

As a German family enterprise, for four generations now we have been developing future-oriented systems, which make your life easier in your everyday fabricating processes, and providing your customers with the security that comes with creating a home or a modern working environment out of four walls. You can experience this vision of room comfort for yourself in our showroom. Even if we didn't call it "room comfort" before: we have been working on this for over 100 years.

SIEGENIA®
brings spaces to life

**Produce
room comfort.**
Tailor-made to
your requirements.



More solutions from one single source.

With a very diversified product portfolio for modern window systems, door systems and comfort systems, you can obtain everything from one single source with SIEGENIA, to stringently tested quality and with a wide range of innovations. Our PORTAL sliding door hardware offers you a wide range of opening types as well as solutions with up to 12 m opening width for 0 mm threshold height.

More flexibility and cost-effectiveness.

With PORTAL sliding door hardware, you have all the options for individual scalability in order to precisely adjust your systems to every project requirement. The high degree of pre-assembly, the optimum adjustment options and the small number of components ensure more efficient processes and streamlined logistics. We provide our lift-slide systems as a zero-hassle COMFORT UNIT package ready for assembly.

Customised services.

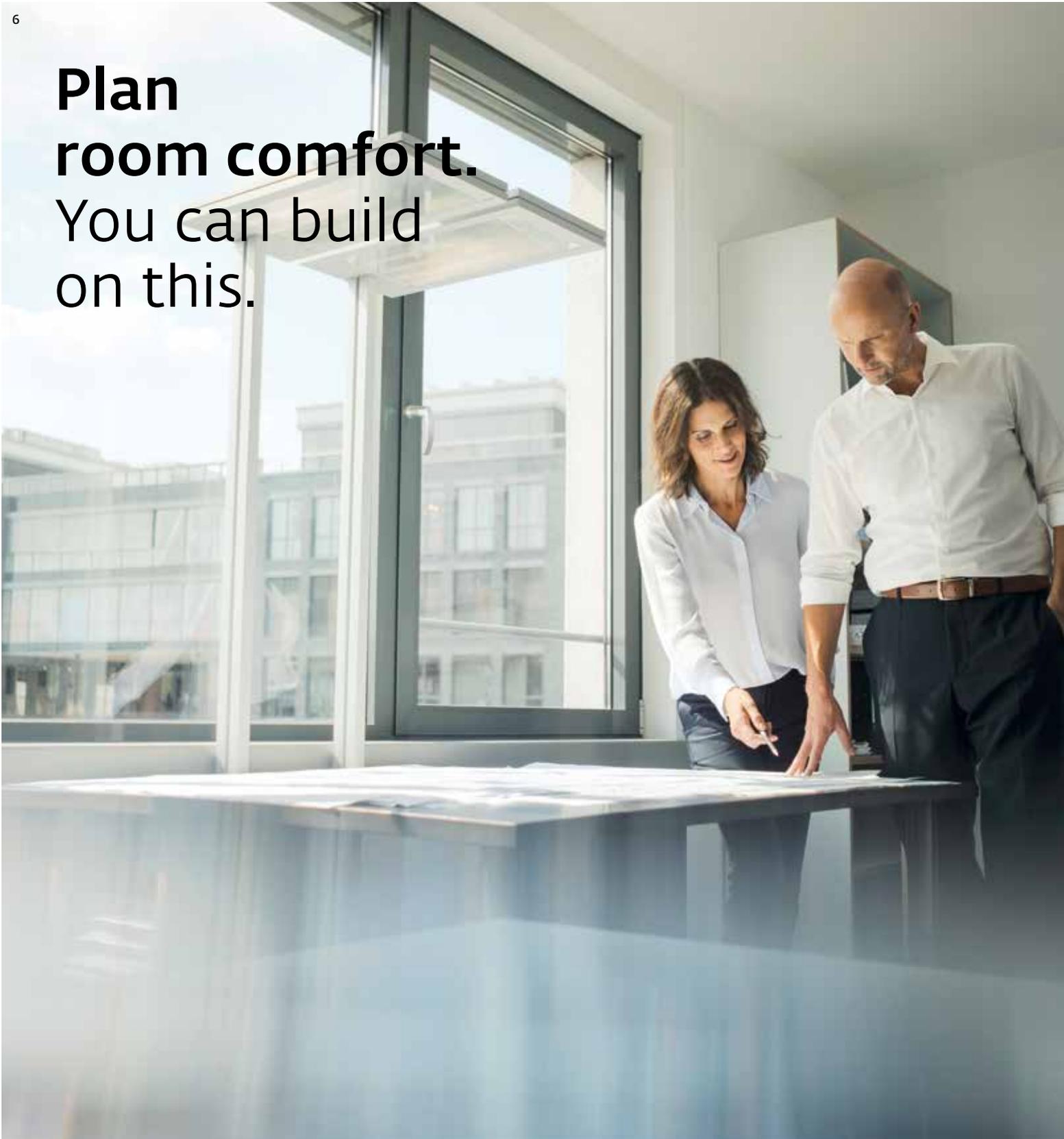
It is often minor details that make such a decisive difference in practice. With SIEGENIA, you have a partner, who pays attention to every detail and who is aware of your everyday requirements better than anyone else. For this reason, we have pooled our product systems together perfectly with our complete know-how for you: in service packages that provide precise advice, information or on-site support. Whether this is for your production, training your staff, your marketing or your assembly line: we are there for you!



The PORTAL solution diversity.

PORTAL dissolves barriers – not only for your customers, but also in planning and assembly. Because PORTAL can be used very flexibly delivering optimum solutions from gear to sill installation.

Plan room comfort. You can build on this.



More planning quality with room comfort.

Our high-quality hardware, ventilation and building technology not only provides the building blocks for modern living and room concepts, but also well-coordinated systems. Because only when all room functions work together as one system can a room truly become a living space.

With SIEGENIA you have the freedom to create the comfort that brings spaces to life: room comfort.

Extensive support.

We want to support you with qualified consultation and services. Our team of property advisors and application technicians as well as the corresponding data technology and software are at your disposal for this purpose.



architekten.siegenia.com

PORTAL sliding door hardware

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PORTAL opening types

More width and a wide variety of designs.

Lift-slide

PORTAL HS



ECO SLIDE slide

PORTAL ES



Parallel slide & tilt

PORTAL PSK comfort



The true size of a room is measured not in square meters, but in apparent spaciousness and natural daylight. Here large sliding elements play out their strengths with our PORTAL hardware. Because thanks to maximum product quality and innovative comfort details, they are operated as lightly as a feather and securely in every size, weight class and material type. Thus, you can practically "dissolve walls into thin air", ensure barrier-freedom and have more freedom of design thanks to the great selection of opening types.



Parallel slide
PORTAL PS comfort



Fold and slide
PORTAL FS^{PLUS}



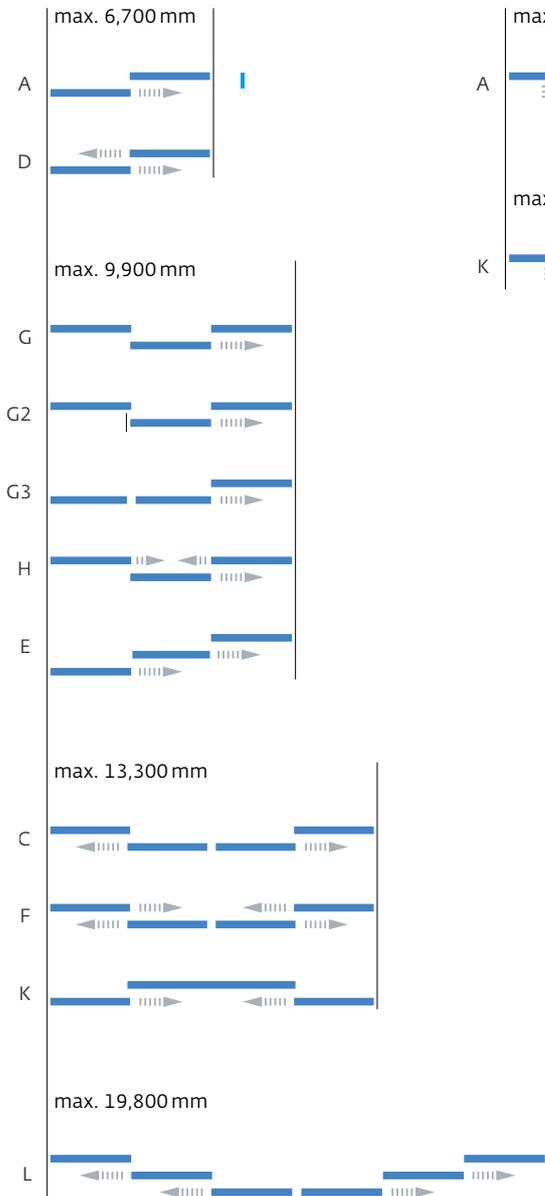
Slide
PORTAL CS



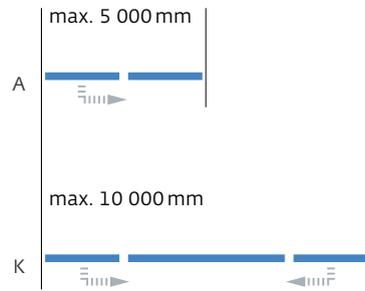
PORTAL opening schemes

More than just scheme F.

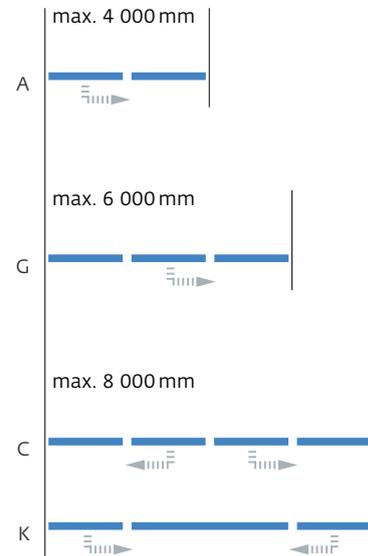
Lift-slide PORTAL HS



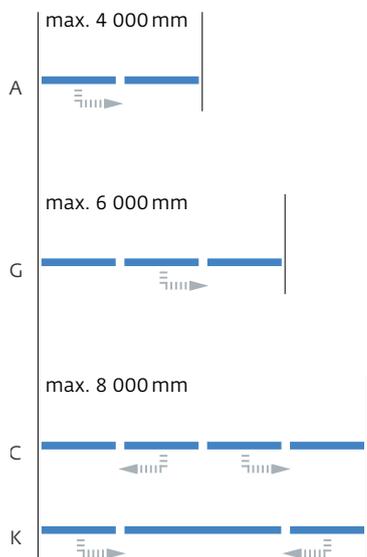
ECO SLIDE slide PORTAL ES



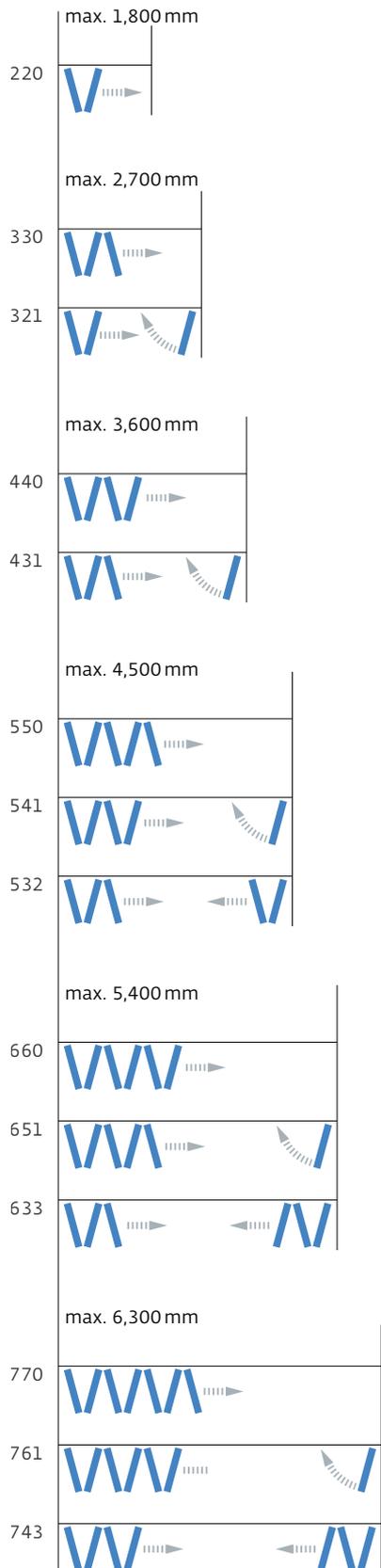
Parallel slide & tilt PORTAL PSK comfort



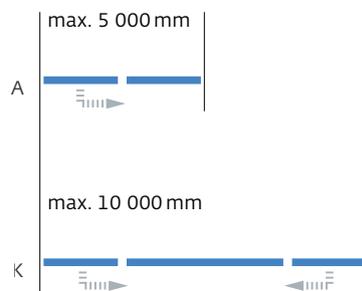
Parallel slide
PORTAL PS comfort



Fold and slide
PORTAL FS^{PLUS}



Slide
PORTAL CS





PORTAL HS

The pioneering lift-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 the 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-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-slide systems as a zero-hassle COMFORT UNIT package ready for assembly.



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Revolutionary production. Outstanding design.

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

With our level threshold ECO PASS SKY axxent, you will offer your customers a barrier-free, energy-efficient and design-pioneering solution. This was worthy of the renowned Red Dot Award, the highest distinction.

PORTAL HS

Product overview.

Planning and production	PORTAL HS 150	PORTAL HS 200	PORTAL HS 300
Opening type	Lift-slide	Lift-slide	Lift-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	200	300
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, G, G2, G3, H, K, F, E, L	A, C, D, G, G2, G3, H, K, F, E, L	A, C, D, G, G2, G3, H, 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	⊙	⊙	⊙
Barrier-free in accordance with DIN 18040	⊙	⊙	⊙
Glazing down to the threshold level	–	⊙	–
SOFT CLOSE function	⊙	⊙	⊙
Night vent	⊙	⊙	⊙
AEROMAT flex	⊙	⊙	⊙
Motorised drives		DRIVE axxent HSA smart	DRIVE axxent HSA smart
Opening and locking monitoring system AEROCONTROL	⊙	⊙	⊙
Special features		Optional comfort gear with energy storing mechanism	Optional comfort gear with energy storing mechanism

Benefits

- Flexibly scalable load capacity up to 200 kg, 300 kg or 400 kg
- Quick and easy assembly: low number of components, higher degree of preassembly and optimum adjustment opportunities
- Also available as a zero-hassle COMFORT UNIT package ready for assembly
- Smooth, safe operation and night vent as standard
- High level of basic security as standard, depending on profile, upgradeability up to RC3
- Profile-specific with SOFT CLOSE: cushions the sash and closes it gently
- Comfort gear for heavy sashes
- AEROCONTROL opening and locking monitoring system possible
- More energy efficiency and barrier-free thanks to the ECO PASS threshold
- More light incidence thanks to the ECO PASS SKY solutions

PORTAL HS 400
PORTAL HS 400 compact

Lift-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, G, G2, G3,
H, K, F, E, L

⊙

⊙

⊙

RC2, RC3

⊙

⊙

⊙

⊙

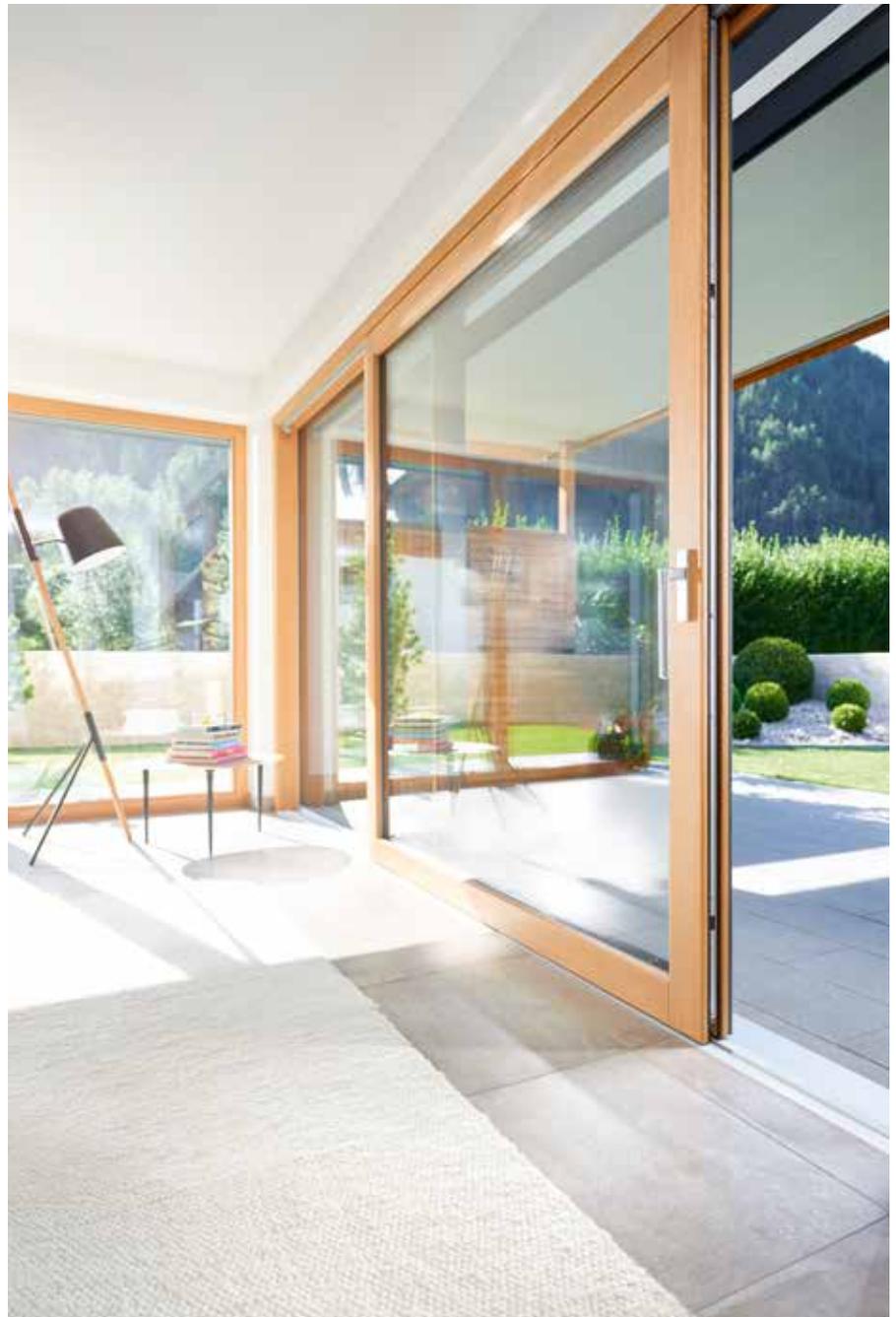
⊙

⊙

DRIVE axxent HSA smart

⊙

Optional comfort gear with energy storing
mechanism



ECO PASS thresholds

Energy efficiency and barrier-free systems as if from a single mould.

The unique ECO PASS threshold is the perfect common denominator for our PORTAL lift and slide elements, flexibly bringing easy-to-assemble accessibility and high energy efficiency. Furthermore, the ECO PASS threshold is available in different versions: as standard variant, with 5 mm running rail, or in the level axxent variant with 0 mm running rail. The first-class thermal insulation and particular stability of the single-part solution is achieved by the innovative 10-chamber profile including reinforcement. The threshold versions are also available as SKY variants for fixed glazing down to the floor.



ECO PASS
Standard



ECO PASS
5-mm running rail



ECO PASS axxent
0-mm running rail



Profile diversity

Tailor-made and cross-profile, can be used very flexibly.

The unique ECO PASS threshold is available for all larger profile systems:

PVC

- Budvar KF C28/48
- Internova HST 6000
- Gealan S8000 IQ
- Gealan S9000
- Profine PremiDoor 76
- Profine PremiDoor 88
- Rehau Geneo
- Rehau Synego
- Salamander evolutionDrive: HST
- Vekaslide 82
- Schüco LivIngSlide
- Further systems are in preparation

Timber

IV 68, IV 78, IV 88, IV 92

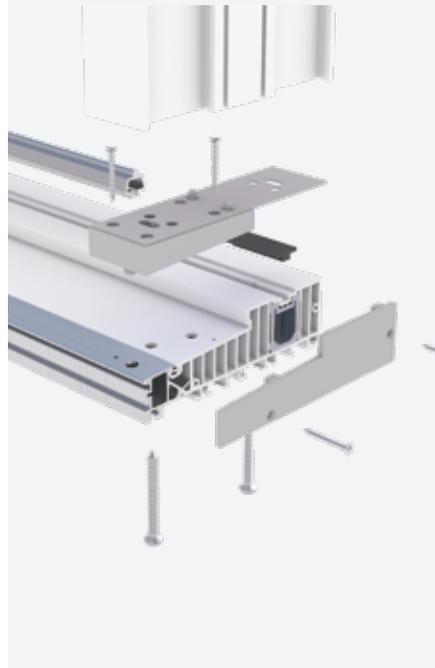
Timber/aluminium

- Aluron
- Bug
- Gutmann
- Stemeseder

Stability

Exceptionally robust technology in an elegant and sleek design.

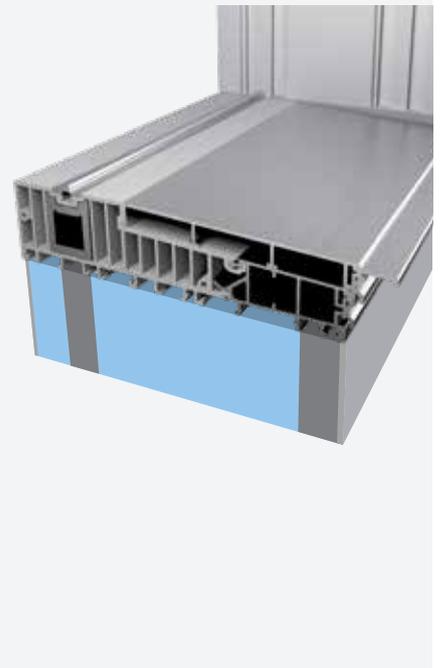
Extremely high stability thanks to aluminium or steel reinforcement integrated in the threshold. This is achieved in the corner area of the threshold by special frame corner connections. The precisely fitting base profiles bear the threshold load to the floor evenly and entirely.



Thermal insulation

High energy efficiency and considerably lower risk of condensation water.

With its unique 10-chamber design, the profile of the threshold provides first class thermal insulation, to which the custom-fit base profiles with their different height variants contribute significantly. The danger of condensation formation in the cold season is also significantly reduced.



ECO PASS thresholds

Designs for the passageway:
threshold height.

ECO PASS Standard

Ideal for renovations with floor offset.

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

ECO PASS 5-mm running rail

With convenient 5-mm gap area height due to retrofittable step plates.

In this threshold version, the gap area height is reduced to a convenient 5 mm with additional step plates and the special running rail. This makes the threshold barrier-free according to DIN 18040-2 and offers an elegant threshold design at the same time.

ECO PASS axxent

The level threshold for flowing transitions without inclines.

The level threshold for timber-aluminium systems lowers the height of the threshold, including the running rail, to 0 mm without any incline. Cooperation with a leading drainage system manufacturer allows a high-quality overall solution and optimum sill installation. Maximum compression is provided by the efficient design with sealing plates, sealing wedges and base profiles, while the grille system prevents the accumulation of water and dirt.



Production benefits

- 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
- ECO PASS: for HS systems made of timber, timber-aluminium or PVC
- ECO PASS axxent: for HS systems made of timber-aluminium
- Also available as a zero-hassle COMFORT UNIT package ready for assembly



The ECO PASS axcent threshold allows a seamless transition of the threshold into the floor. For the drainage gutter in front of the fixed glazing, a grille design that is identical to that in the threshold area is possible.



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ECO PASS thresholds

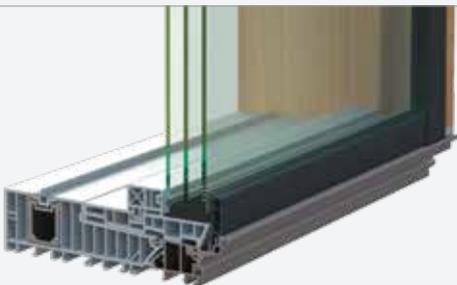
Designs for the fixed glazing area:
the SKY effect.

ECO PASS SKY

Glazing right down to the threshold level for more light incidence and visual expanse.

For living in light and without boundaries, the ECO PASS SKY threshold permits fixed sash glazing right down to the threshold. In conjunction with lean sash profiles, you will achieve a sliding door design that eliminates the boundary between inside and outside and will optically enlarge your living space. Because of the barrier-free threshold, this of course also applies to the gap area. The ECO PASS SKY threshold is suitable for PORTAL HS elements made of timber or timber-aluminium.

Fixed glazing down to the threshold



ECO PASS SKY axxent

Seamless transition of the fixed glazing in the threshold for maximum design requirements.

The ECO PASS SKY axxent threshold for timber-aluminium systems does not just lower the threshold and running rail to zero millimetres, it also allows a seamless transition of the fixed glazing into the threshold, combining barrier-freedom with maximum light incidence. The colour design of the threshold can be adapted to the floor or frame material and the cube design of the sash cover caps meets special demands: the merely two millimetre deep metal covers are barely noticeable and can be adapted to all handle colours.

Fixed glazing in the threshold



Production benefits

- Diversification of the product programme for tailor-made solutions for customers
- Also available as a zero-hassle COMFORT UNIT package ready for assembly
- Available timber profile systems: IV 78, IV 88, IV 92
- Available timber-aluminium profile systems: Aluron, Bug, Gutmann, Stemeseder



ECO PASS SKY axxent: seamless transitions in the gap area and the fixed glazing create a barrier-free and clean design, which is rounded off by especially flat and elegant metal sash cover caps (cube design). The colour design of the threshold can be flexibly adapted to the floor or frame material.



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COMFORT UNIT

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

Ready for assembly on the spot: everything is trimmed, pre-drilled and pre-assembled.

With the COMFORT UNIT, you will obtain an all-round trouble-free 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 provides a made to measure solution. With a click and with the ECO PASS configurator, you have a solution on hand that automatically displays all possibilities and excludes 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 12.00 noon
- Standard delivery time within Germany 5 – 8 working days

shop.siegenia.com



Safe configuration with immediate plausibility testing



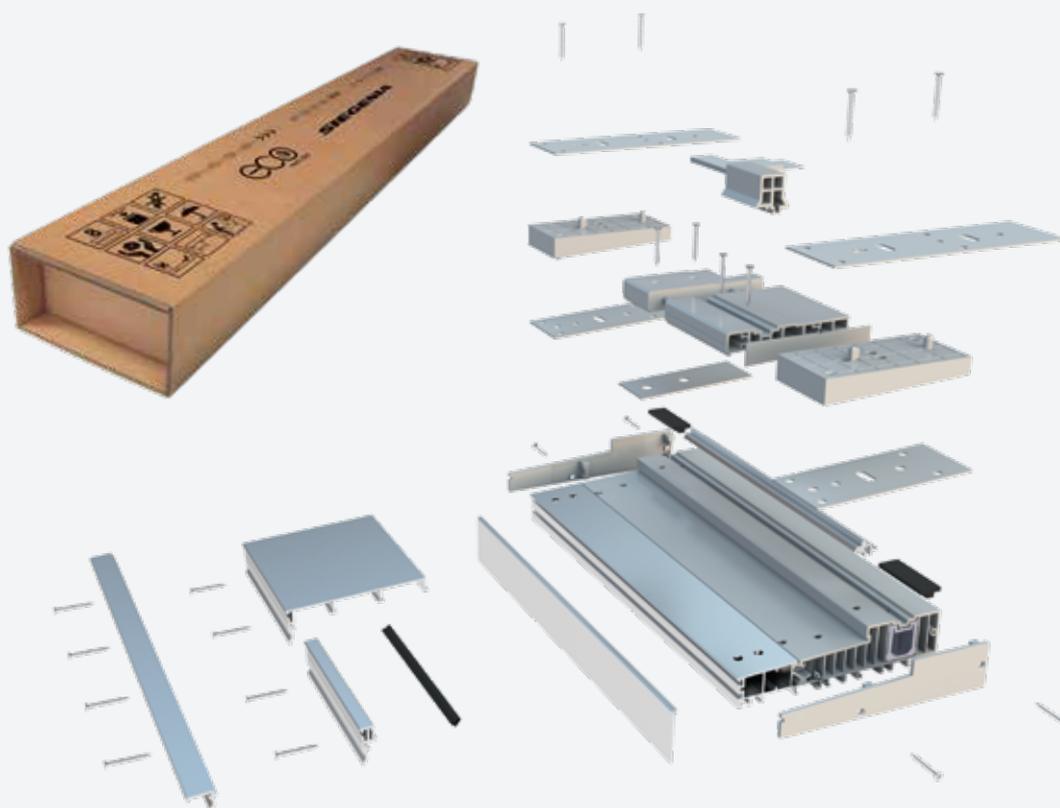
Quick processing of the individual order



Quick delivery, within 48 hours on request

The COMFORT UNIT includes all hardware components such as bogie wheels, gear and handle: also cut to measure, pre-drilled and preassembled

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 so that security and ease of use go perfectly hand in hand.

Gear with locking bolt

Burglar resistance up to RC3.

According to profile system, burglar resistance up to RC2 is easily achieved with two or four locking bolts and accessory equipment. Moreover, a certified RC3 burglar resistance can be achieved for some profile systems with four locking bolts and accessory equipment.



Production benefits

- 27.5 mm and 37.5 mm backsets
- The new generation of locking parts and gear are coordinated so that a greater dimensional tolerance is achieved.

Hook bolt gear

Flush, sealed and safe.

Up to three hook bolts, with integrated blocking function, ensure effective, first-class sealing and high burglar resistance up to RC2 in combination with accessory components. The flush-mounted frame strikers mean that there are no protruding hardware components in the gap area. When the door sash is closed, the hook bolts slide over the locking rollers into the frame strikers gently and wear-free from bottom to top, thus reducing the gear load. The gap vent function is integrated as standard and the concealed pressure adjustment is +/- 2 mm.



Production benefits

- 27.5 mm and 37.5 mm backsets
- 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 locking bolt 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. According to the comfort requirement, 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.



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

Gear damper

Perfect, noiseless power transmission without loss of stroke.



The gear damper ensures a backlash-free connection between handle and gear, meaning 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.

Production benefits

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

Production benefits

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

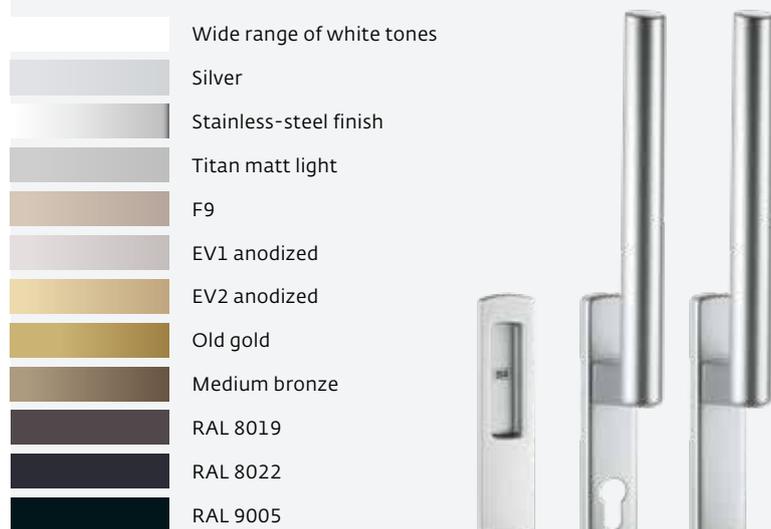
Accessories

More comfort and security,
more freedom of design and fresh air.

Handles

Quality that you grasp immediately.

PORTAL HS handles provide noiseless locking and release free of play with lasting high functional security. They are perfectly coordinated with the lift-slide hardware and the sash weight and are available in a large range of colours. There is also an option of subsequent painting for special requests. A wide range of sliding door configurations is possible due to the variant diversity.



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 for special requests

Night vent

Fresh air standard.

PORTAL lift-slide systems in all gear versions are equipped with a night vent function as standard that is simply selectable via 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 for all gear versions including hook bolt gears

AEROMAT flex

The optionally integrated passive ventilator for user-independent ventilation.

User-independent ventilation can be achieved with the AEROMAT flex passive ventilator in addition to the manual night vent. The ventilator 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 ventilator version, the supply air opening is independently regulated by the humidity in the room.



SOFT CLOSE function

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

The innovative SOFT CLOSE function that can be invisibly integrated into the sash consists of a trigger in the SC guide track 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.



Production benefits

- Can be used singly or in pairs, horizontally or vertically on the element in the available installation space – without milling groove
- 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

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

Bogie wheels

Make heavyweights practically weightless.

HS 400 compact bogie wheels

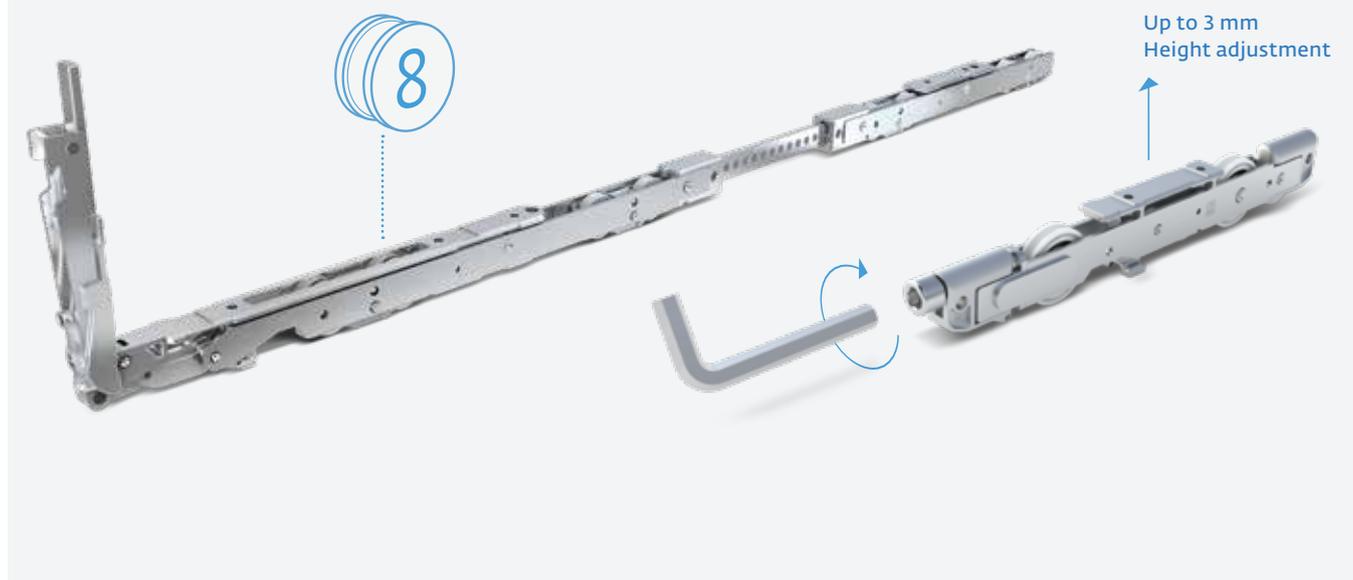
Set sash weights up to 400 kg effortlessly into motion on eight self-aligning rollers.

Due to their self-aligning load distribution on eight rollers, these bogie wheels effortlessly slide even heavyweight sashes back and forth. Its exceptionally low installation height allows especially narrow sash profiles and with the enhanced proportion of glass, provides both more daylight and better U-values. The omission of a tandem solution for 350–400 kg sash weights shortens the assembly time.

HS bogie wheels height-adjustable

The solution for perfect fine adjustment up to 400 kg.

The height-adjustable bogie wheels not only make the sliding motion smooth and effortless, they also significantly facilitate onsite assembly.



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 with retention of the bottom sash stability

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 in assembly on site
- Tolerance compensation of a potential V-joint on the locking side is possible

Sealing rails

Let neither cold, 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-scale seal compensates for production tolerances
- Easy adjustment due to centre lock with compression adjustment

Sealing rail C28/48

Optimum insulation for narrow profile views.

The new sealing rail C28/48 allows effective compression 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.



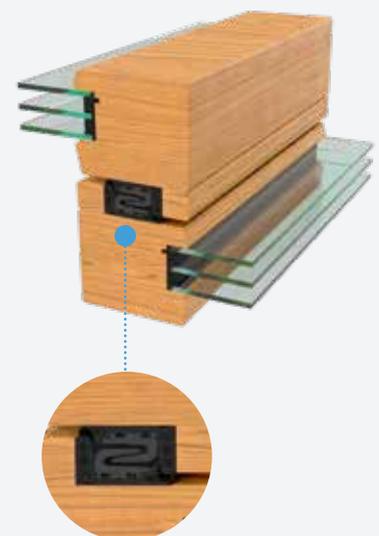
Production benefits

- 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

Motor function and monitoring

The new ease of living.

DRIVE axxent HSA smart

Fully automatic, partially concealed drive system for maximum ease of use and clear design.

Sash weights of up to 400 kg can be opened, closed and securely locked fully automatically with this partially concealed drive system, which can be scaled to meet your individual cost-benefit requirements. And the fully concealed lift drive provides clear benefits in design. Thanks to the standard integrated WIFI module, provided by its own WIFI network, but which can so easily be connected to the home network, operation functions per button or via the SIEGENIA Comfort app. This opens additional comfort functions and includes a smart installation assistant like all SIEGENIA smart devices.



Production benefits

- Suitable for opening schemes A and C with sash weights up to 400 kg
- Quick and easy installation and commissioning: preassembled drive and automatic teach-in
- Scalable for lighter lift & slide sashes: additional product variants up to 200 kg sash weight



SIEGENIA Comfort app

All designs and functions of the smart SIEGENIA world in one single app.

The SIEGENIA Comfort app allows you to operate, network and monitor all SIEGENIA "smart" products intuitively and also via remote access. As well as smart ventilators, monitoring and access control systems, this naturally also applies to the smart drives. Hence, large lift and slide elements can be conveniently operated and automated.

The SIEGENIA Comfort app opens numerous additional functions such as motorised starting of the night vent and the free timer setting of 1 to 59 minutes as alternative to the 10-minute automatic ventilation system.

 Locking and release

 Open and close

 Night vent

 Intermediate stop

 Ventilation timer



AEROCONTROL magnetic switch

Opening and locking monitoring up to VdS class C.

With these integrated magnetic switches, concealed in the profile, lift and slide elements can be optimally integrated in the central monitoring and alarm system. This means that the opening status as well as the correct locking status can be controlled.



Production benefits

- For universal use
- There is also a concealed variant for timber, timber-aluminium and some PVC systems
- BUS-compatible for integration in building control technology
- VdS tested and certified to the maximum monitoring class C, depending on switch type



PORTAL ECO SLIDE

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

Ease of use and compression perfectly combined.

The exceptionally cost-effective and assembly-friendly PORTAL ECO SLIDE sliding hardware consistently brings the ease of use of lift-slide systems and the high compression of parallel slide & tilt systems under one umbrella. The combination of special bogie wheels and innovative guiding and locking elements ensures intuitive operation with night vent function as standard. Assembly is very easy and cost-effective due to the common components. The hardware is always identical in the sash width.

Versatile opportunities, for perfect utilisation of the space.

PORTAL ECO SLIDE provides enhanced 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.

But ECO SLIDE also opens a lot of freedom of design in sliding doors: with efficient solutions that can be operated so easily and, with their compression, can withstand any strain they are exposed to. According to the frame material and profile, the system can be used up to widths of 5 m or heights up to 2.50 m.



Innovative guide and locking elements.

They guide the sash at all four corners precisely into its closing position and ensure high compression.



PORTAL ECO SLIDE

Product overview.

Benefits

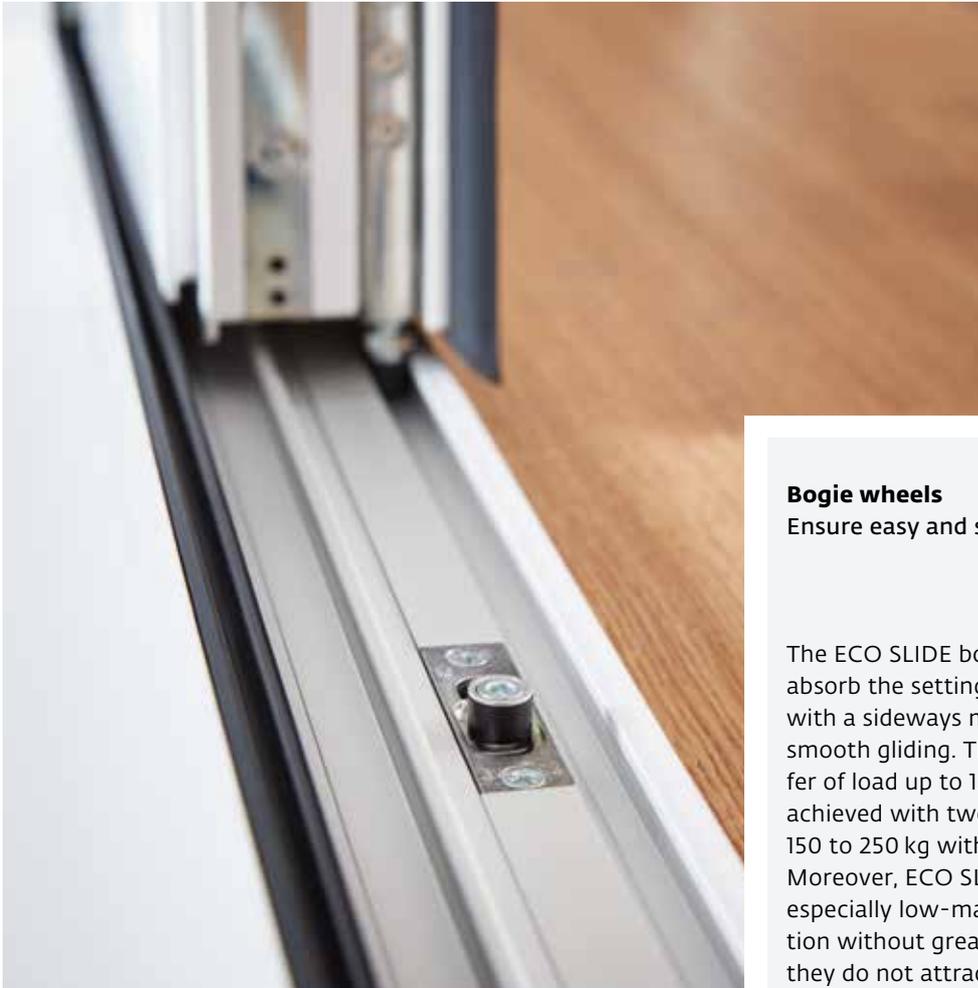
- Cost-effective solution for sliding windows or sliding doors with sash weights of up to 250 kg
- Small number of components for quick and easy assembly
- High energy efficiency due to continuous seal for high compression
- Innovative guide and locking elements in each sash corner for enhanced compression
- Intuitive operation: ideal for changing user groups
- Night vent as standard
- Profile-specific with SOFT CLOSE: cushions the sash and closes it gently
- Can be combined with narrow profiles for maximum light incidence
- Also available as a zero-hassle COMFORT UNIT package ready for assembly:
Profine PremiSlide system with aluminium frame

Planning and production

	PORTAL ES 150/250
Opening type	Slide
Profile	Timber, PVC, aluminium; for profiles with 16 mm fittings groove
Sash rebate width in mm	680–2,500
Sash rebate height in mm	1,200–2,500
Sash weight in kg maximum	150/250
Handle position	constant 300, 400, 500 or 1,000 mm
Quality assurance	QM 346 certified (H2) corrosion class 5
Schemes	A, K

Options for greater room comfort

Handle lockable from the inside and outside	⊙
SOFT CLOSE function	profile-specific
Night vent	⊙
Positive control	⊙
Special features	Possible as sliding window or sliding door, concealed bogie wheels and innovative guiding and locking elements



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 setting aside of the sash with a sideways movement and ensure smooth 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 grease. Consequently, they do not attract dirt, which could impair operation.



Production benefits

- Three screwing variants are possible: in the eurogroove, in the groove base or laterally (figure)
- 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

Gear and locking technology

Convenient, compressed and secure.



Innovative guide and locking elements at all four sash corners.

The PORTAL ECO SLIDE sliding hardware is equipped with unique guiding and locking elements at all four sash corners. The guiding elements guide the sash very precisely into its closing position or trigger the night vent. The necessary sealing forces are transmitted simply and force-controlled from the handle via the gear and transferred to the two locking hooks, which draw the sash into the frame and seal optimally. The rounded locking hooks consist of high-quality brass cast.

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

Sturdy 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

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

SOFT CLOSE function

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 track 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.



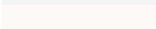
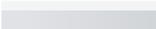
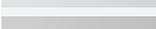
Production benefits

- 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

Handles

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 event of special colour requests.

	White
	Cream white
	Silver
	Titan matt light
	F9
	Medium bronze
	Brown
	Black



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 for special requests

Accessories

For a healthy indoor environment.

Night vent

Fresh air 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 ventilator for user-independent ventilation.

User-independent ventilation can be achieved with the AEROMAT flex passive ventilator in addition to the manual night vent. The ventilator 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 ventilator 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 available installation space – without milling groove
- 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

COMFORT UNIT

The production-optimised complete sliding package for Profine Premislide 76.

**Ready for assembly on the spot:
everything is trimmed, pre-drilled and pre-assembled.**

With the COMFORT UNIT for the PVC profile system Profine Premislide 76 (with aluminium frame), you will obtain an all-round trouble-free service that will revolutionise your production processes. Because you will then obtain all necessary ECO SLIDE hardware and sliding components in the exact number of pieces and lengths. The tailor-made COMFORT UNIT complete package ranges from bogie wheels and the precisely cropped and pre-assembled support rails to handle and gear.



Production benefits

- Considerable saving of production 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
- Standard delivery time within Germany 5 – 8 working days



PORTAL PS/PSK comfort

Parallel-slide and parallel slide & tilt systems

For intuitive operation and fabrication.

The PORTAL PSK comfort is a class in itself from the modular system to operation.

The new PSK comfort generation offers you a hardware concept, which is unique from the modular structure to the gentle and protective sliding movement. 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 also 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 at any time with only a few and quickly mounted additional parts, which meets even the highest demands.

Clever comfort components.

With these you enable even higher sash weights to swing in or out evenly, with gentle braking. The entire running behaviour 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 & tilt	Parallel slide & tilt	Parallel slide & 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 behaviour and swings open and closed smoothly
- Customised solutions for different sash weights
- Easy scalability due to innovative comfort components
- High level of basic security as standard, upgradeability up to RC2 without problems
- Simplified installation: bogie wheels with height and tilt adjustment and a self-supporting running rail without lining up to 160 kg (dependent on profile)
- 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 also suitable 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 slider

Quiet, smooth sliding.

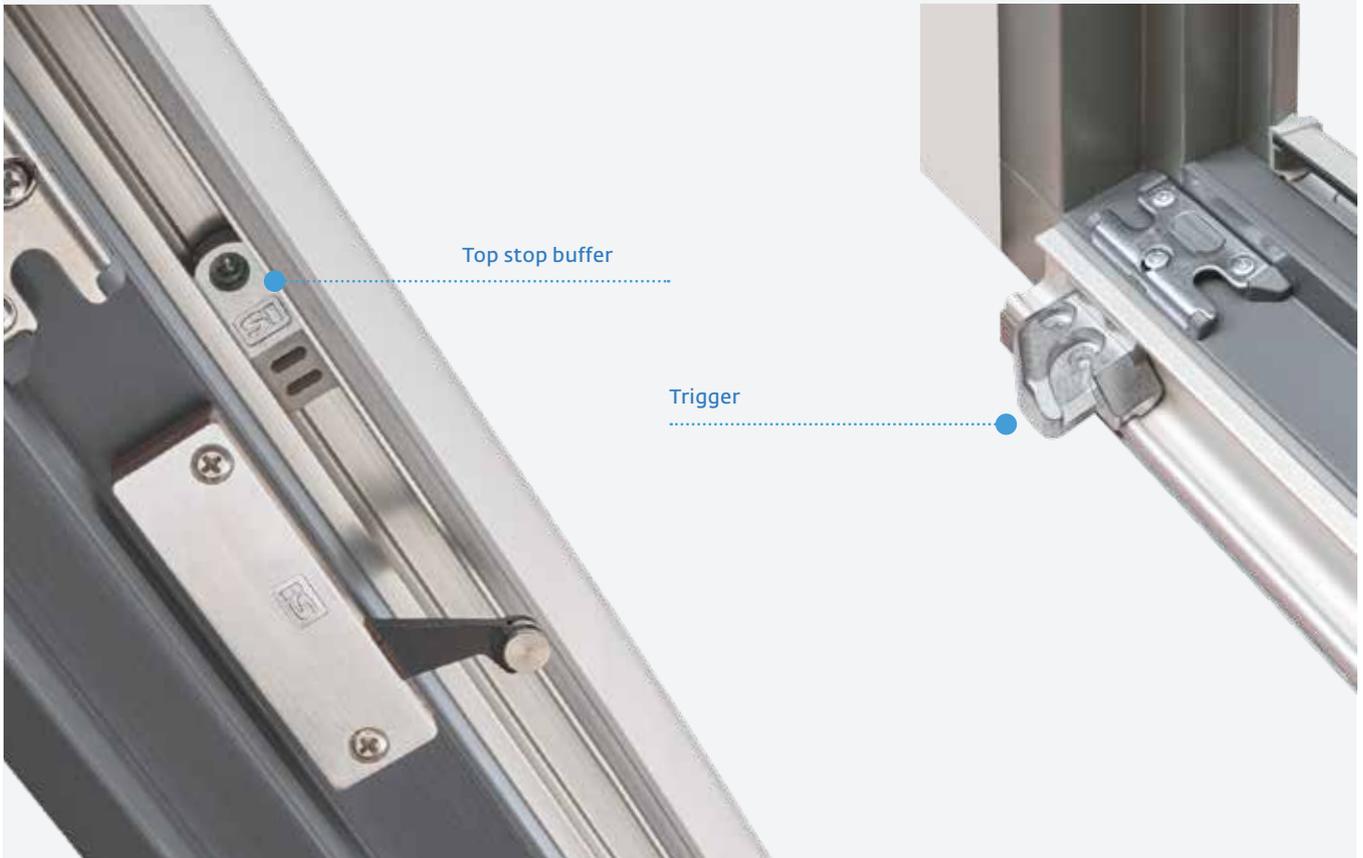
To ensure that operation is also child's play for unfamiliar and frequently changing users upon the first touch, it is essential that it functions intuitively as well as safely. With the PORTAL PS/PSK comfort, the ease begins in production. Because the smart comfort components are so easy to assemble,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

The two sliders are synchronised in the guide track 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 synchronously, which mutually ensure smooth swinging.



Stop buffer

Dampened and safe stopping.

A stop buffer, integrated in the guiding 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.

Additional 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 track 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.

Handles

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.

PSK 100/130/160 comfort:

- The sash can be opened and slid after a 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:

- The sash can be opened and slid after a 90° rotation of the handle
- SIEGENIA central locking gear from standard turn and tilt components

PSK 200-Z comfort:

- A 90° rotation brings the sash automatically into the tilt position
- The sash can be slid after a further 45° rotation.

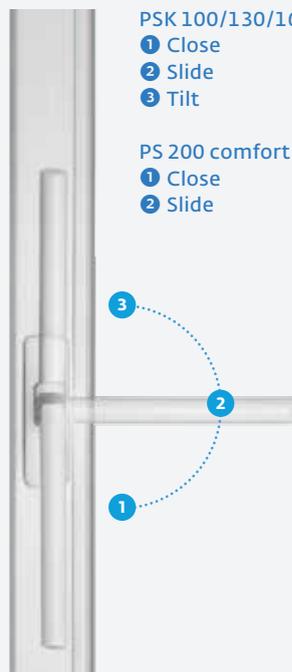
	Signal white
	Cream white
	Silver
	F9
	Old gold
	Medium bronze
	Brown

PSK 100/130/160 comfort

- 1 Close
- 2 Slide
- 3 Tilt

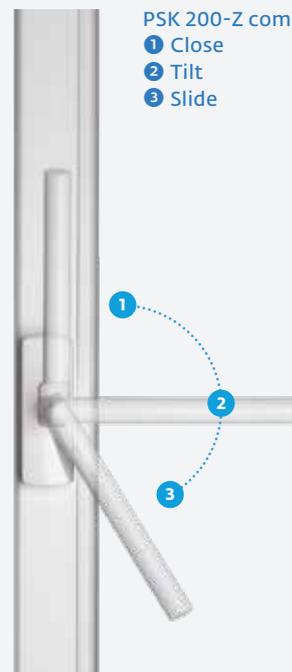
PS 200 comfort

- 1 Close
- 2 Slide



PSK 200-Z comfort

- 1 Close
- 2 Tilt
- 3 Slide



Gear set PZ**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 sturdy burglar resistance permanently 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 frame conditions. This minimises the installation expenditure 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
- Equalises 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.

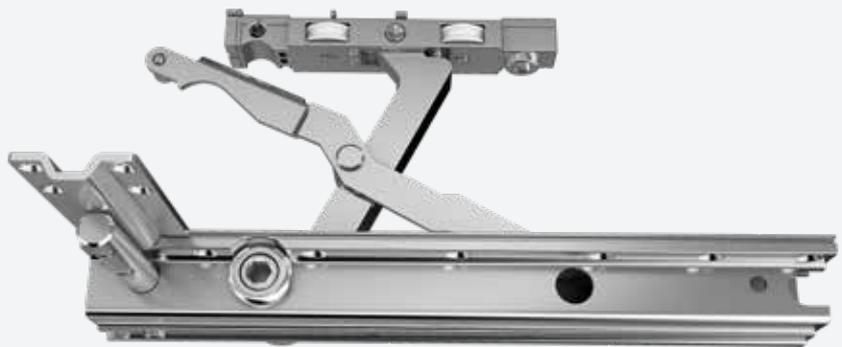
The laser-welded stays are explicitly secure components due to the combination of high-quality materials like brass and high-tensile steel. They are available in two versions: the PS-/PSK stay allows sliding up to 200 kg and tilting up to 160 kg. Tilting up to a sash weight of 200 kg is possible in the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



Bogie wheels

High ease and frame to sash clearance with small dimensions.

With their diameter increased by up to 25 %, the new PORTAL PS/PSK rollers make the sliding even smoother and more comfortable. 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 also suitable for extremely narrow or deep-set sash profiles
- Self-supporting running rail up to 160 kg; no lining required (depending on profile)

Accessories

For a healthy indoor environment.

AEROMAT flex

The optionally integrated passive ventilator for user-independent ventilation.

User-independent ventilation can be achieved with the AEROMAT flex passive ventilator in addition to the manual night vent. The ventilator 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 ventilator 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 available installation space – without milling groove
- 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 a gap open and still be well protected against burglary, vandalism, rain and draughts. Through TITAN vent secure, tested, scalable burglar resistance 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.

More 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 also 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 permanent use in outside areas due to the use of new materials and coating techniques. This opens all options for outward opening fold and slide elements and consequently to additional business fields.



Up to 6.3 m free gap area.

All elements can be easily folded inward or outward. Every centimetre of the gap area width 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 for more cost-effective flexibility.
- 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

Folding hinges

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

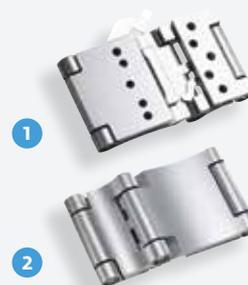
With their special friction bearings, PORTAL FS^{PLUS} rebate hinges guarantee easy, noiseless and long-lasting use. The rebate hinges are maintenance-free thanks to their innovative PVC bearing. The hardware components are weather-resistant due to their high-quality surface technology and are also available in a highly anti-corrosive 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. The hinges can only be removed when the sash is open.

Also as cleaning hinges.

The special FS-RS sash hinge makes it possible to conveniently clean the outsides from the inside. This can be a huge relief on narrow balconies.



- ① Open hinge: secured cleaning position
- ② Closed hinge: normal function as rebate hinge

Threshold and bogie wheels

More ease of use and freedom of movement.

Threshold

Low gap area height and high thermal insulation.

The thermally separated threshold for fold and slide elements with its low gap area 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 PVC on ball bearings ensure the sashes are particularly smooth running and also minimise the need for adjustment. 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 expenditure thanks to large, ball-bearing bogie wheels
- Integrated brush elements to clean the running rail

Handle and locking system

Attractive, secure and smooth-running.

Handles

Quality that you grasp immediately.

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.



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 expenditure and ensures a permanent smooth-running locking system.

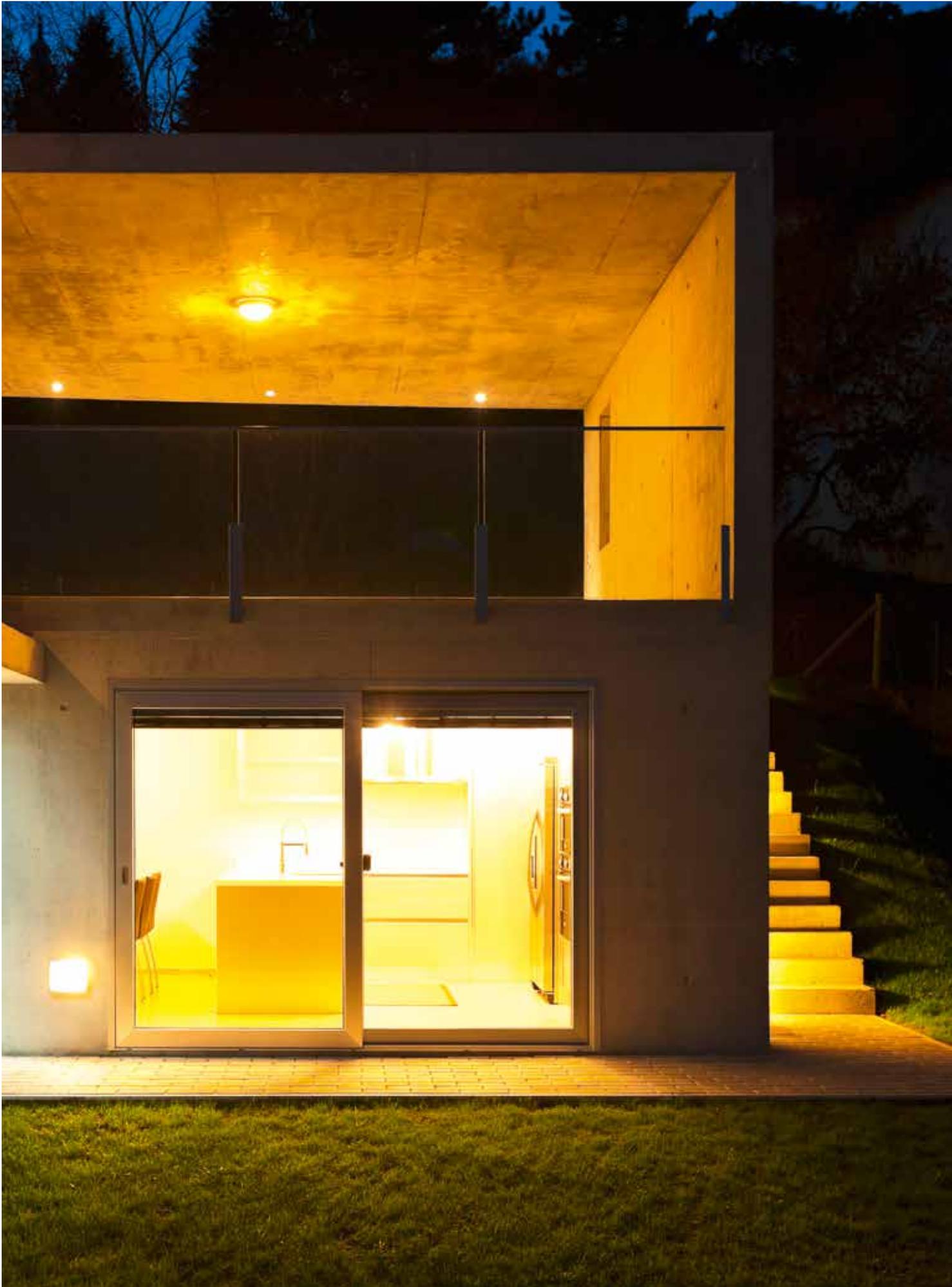


Production benefits

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

Production benefits

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

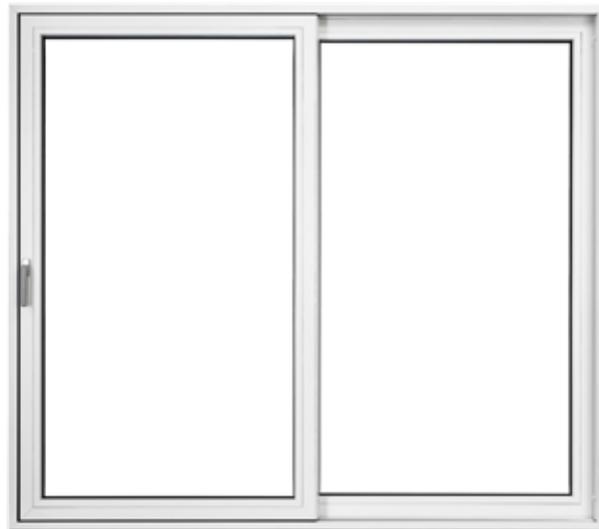


PORTAL CS

The economical solution for upgrading conventional sliding elements.

Conveniently ensuring more comfort.

The PORTAL CS sliding hardware allows you to convert basic sliding doors and windows 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 permanent 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 so that the sliding system can be flexibly adapted 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.



Handles

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 tilt and slide 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 locking indicator. You can therefore see from the outside whether the element is locked.



① ② ③ ④

- 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 a particularly wide performance spectrum for aluminium sliding doors, which offers you more options for high ease of use 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 in our ALU complete range, 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 motor function.

PORTAL brings more light and ease of movement into clear design concepts. Even sash weights of up to 400 kg can be moved and locked via an app with our drive system.



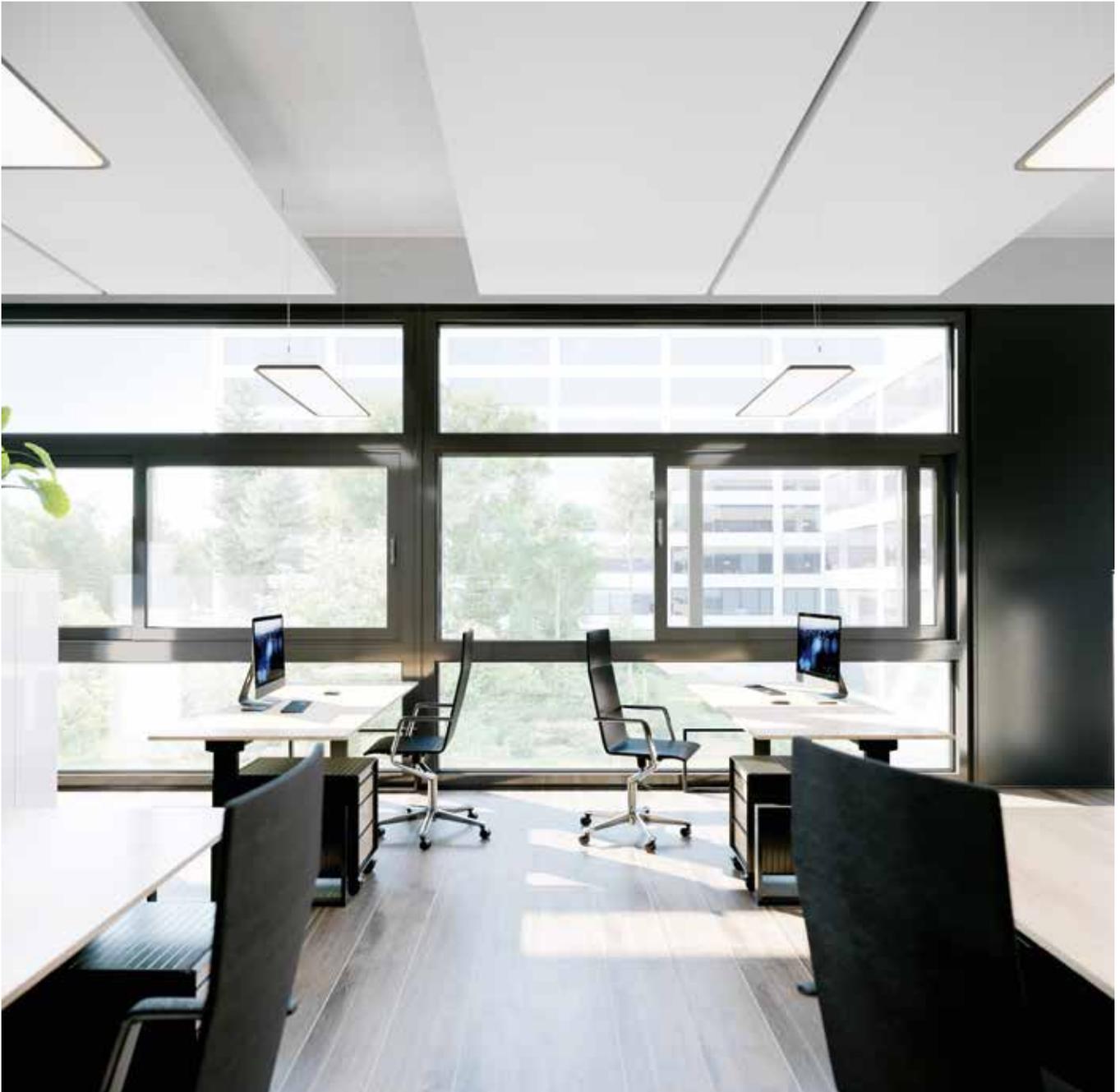
PORTAL HS ALU

Lift-slide system for aluminium.

Opening type	Lift-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, depending on profile, upgradeability up to RC3
- Profile-dependent with SOFT CLOSE function



PORTAL ECO SLIDE ALU

Sliding system for aluminium.

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

Benefits

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



PORTAL PS/PSK comfort ALU

Parallel-slide and parallel slide & tilt systems for aluminium.

Opening type	Parallel slide Parallel slide & 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-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 behaviour and swings open and closed gently
- High energy efficiency due to continuous seal
- High level of basic security as standard, upgradeability 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

SIEGENIA[®]

brings spaces to life

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