



With over 100 years' experience and an international reputation for producing high-quality window and door hardware, we develop innovative products with healthy living, cross-generational design, smart living and sustainability for people and the environment in mind. With SIEGENIA you have the freedom to create the comfort that brings spaces to life: room comfort.

TITAN AF

Tilt and turn hardware for timber, PVC and aluminium 16mm groove.

Features:

- Large weight bearing capacity and size limits:
 - Face fixed: width 230 – 1650mm, height 434 – 3000mm, weight up to 130kg with no additional components
 - axxent 24+ concealed: width 380 – 1650mm, height 434 – 3000mm, weight up to 150kg standard or 185kg with additional load transfer cable.
- Comfort mushroom cam with integrated automatic adjustment – total 5mm adjustment up and down and +/- 1mm compression adjustment.
- Large adjustment on hinges:
 - Face fixed: +/- 2mm height and lateral, +/- 1mm compression top and bottom
 - axxent 24+ concealed: +/- 2mm height, + 2.5mm/- 1mm lateral, +/- 1mm compression top, +/- 0.7mm compression bottom.
- Tested to 20,000 tilt and turn cycles and Class 5 weather corrosion resistance. Extensive PAS 24 testing completed in the UK with solutions for all profiles.
- Run up block VSU - incorporated in all TBT windows ensures smooth closing of the window and counteracts any drop even after years of use.



Benefits:

- **Smooth operation** - due to connecting teeth with fine 1.5mm pitch, built-in slide plates to protect teeth from damage and wear, and roller cams aiding smooth locking despite any slight misalignment.
- **Standardised hardware** – less stock required as same fittings used for standard and PAS 24 tilt and turn as well as for turn-only windows, Juliet balconies, wraparound open-out gearing and our new ECO SLIDE CO sliding system.
- **Quick to manufacture** – croppable components, built-in slide plates and 1.5mm pitch on teeth makes hardware quick to manufacture and assemble.



ALU 5200

Face fixed tilt and turn hardware for aluminium.

Features:

- Large weight bearing capacity and size limits:
 - Width 365 – 1600mm, height 550 – 2800mm, weight up to 170kg as standard.
- Tested to 20,000 tilt and turn cycles and Class 5 weather corrosion resistance.
- Large adjustment on hinges:
 - +/- 1.5mm height, + 2mm/- 3mm lateral on top stay, +/- 1mm compression on top stay, +/- 1mm compression on cams.



Benefits:

- **Non-handed hinges** – require less stock and available in 5 standard colours or customised.
- **Fully clampable system** – saves manufacturing time, no need for predrilling or jigs.
- **Pre-assembled components** – faster, simpler manufacturing with less chance of error due to pre-installed 2mm packer on rebate top hinge meaning sash automatically set to correct position.

ALU axxent PLUS

Concealed tilt and turn hardware for large aluminium systems.

Features:

- Large weight bearing capacity and size limits:
 - Width 380 – 1600mm, height 550 – 2800mm, weight up to 150kg as standard.
- 2 concealed hinges available for standard aluminium grooves A0004 (14/18) and A0006 (10/14).
- Tested to 20,000 tilt and turn cycles and Class 5 weather corrosion resistance.
- Large adjustment on hinges:
 - +/- 1.5mm height, + 2mm/- 3mm lateral on top stay, +/- 1mm compression on top stay, +/- 1mm compression on cams.



Benefits:

- **Fully clampable system** – saves manufacturing time, no need for predrilling or jigs.
- **Pre-assembled hinges** – faster, simpler manufacturing, sash easier to hang with less chance of error.

PORTAL HS 4.0

Lift and slide hardware for large, slim timber sliding doors.

Features:

- Large weight bearing capacity and size limits:
 - Width up to 10,000mm, height up to 2800mm, weight up to 400kg as standard.
- Tested to 20,000 lift and slide cycles, Class 5 weather corrosion resistance and 9A weather performance rating. PAS 24 options are available.
- Comfort gear – supplied as standard for sash weights > 200kg ensuring stable opening for end user, integrated spring means no bounce back of the handle and effortless lifting.
- Both hook and locking bolt gears come with night vent as standard allowing air exchange of 265m³/h without draughts.
- PORTAL HS handles – provide noiseless locking, release free of play and lasting function. They are coordinated perfectly with the hardware and available in over 14 colours with options for Euro cylinder.
- SOFT CLOSE – can be used as standard, brakes sash gently just before end position and pulls shut automatically, adjusting to each sash position and tolerance.
- Sealing rail DS28/48/28 – enables optimum compression horizontally at the top and vertically for certified burglar resistance and helping towards the 9A weather rating.



Benefits:

- **Available as COMFORT UNIT** – all-in-one package containing all hardware cut-to-measure, pre-drilled and pre-assembled to save time and minimise errors. ECO PASS threshold comes pre-assembled with all sealing components to ensure your door achieves substantial weather performance ratings.
- **Standardised bogie wheels for HS200 and HS400 and same handle height for gear sizes 220 and 260** – fewer routing details required and less chance of error.
- **Slim profile sections** – narrower wheels and slimmer 27.5mm backset gear mean slimmer sightlines and more glass.



Other SIEGENIA products ranges available:

- **KFV** – handle and key-operated multipoint locks, available in mechanical, electro-mechanical and automatic versions.
- **DRIVE** – motorised systems for sliding doors and windows.
- **AERO** – single-room window and wall-mounted ventilation units.

For more information contact SIEGENIA directly via info-uk@siegenia.com or 024 7662 2000.