



Window & Door Hardware Range Overview



INTRODUCING...

AL DESIGNNO

CONCEALED HARDWARE FOR AESTHETIC ALUMINIUM
WINDOWS AND BALCONY DOORS



Fully concealed hardware
for aluminium windows and doors

Cost-effective modular system

Sash weights up to 150 kg

DISCOVER MORE AT [TITON.COM/ROTO](https://titon.com/roto)



Titon's specialist team offers:

- Free expert advice and technical support
- Time-saving ordering and rod calculation software



SCAN FOR
MORE INFO

Testing & Quality Control

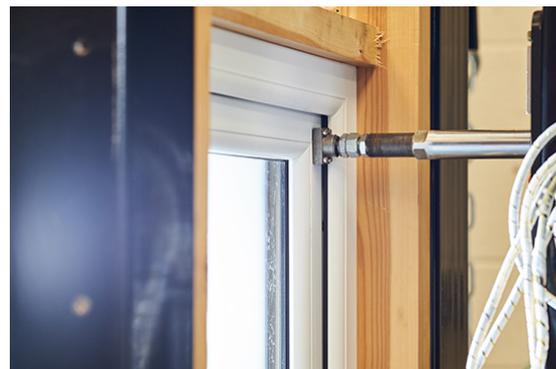
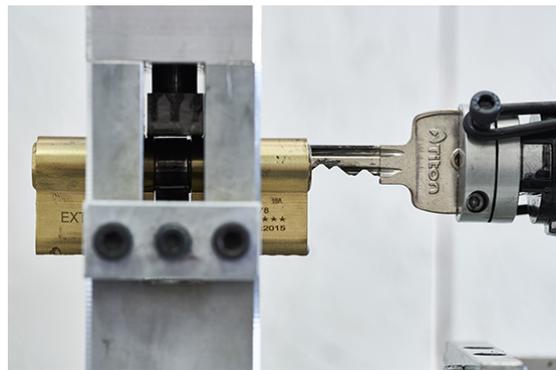
In the competitive world of manufacturing, ensuring the highest quality of products is paramount.

One of the key pillars of our quality assurance process is the rigorous testing that all products undergo before reaching our customers.

At the heart of this testing process lies 'AREA24,' a state-of-the-art testing and quality control facility based at our factory in Haverhill, Suffolk.

AREA24's stringent testing ensures the quality of bought-in products which Titon can confidently pass on reliable products and components to its suppliers and ultimately to its customers.

This commitment to quality maintains Titon's sterling reputation for delivering products that enhance comfort, safety, and at a competitive price.



titon.com/uk/area24

DESIGNED AND
TESTED IN THE

UK

**AREA
24**

AREA24 is Titon's extensive hi-tech product development laboratory. We conduct indicative testing to certified levels so that system companies and fabricators can ensure a hardware specification complies with Standards before going through the expensive third party official testing.

New Products

Roto AL Designo Tilt & Turn

Tilt Turn System

Roto AL Designo is the elegant fully concealed hardware for aluminium windows and balcony doors up to 180kg sash weight.

It meets the most stringent demands of planners and architects with regard to perfect appearance, functionality and ease of fabrication.

- Tilt before Turn Gear
- Tilt Only and Turn Only options available
- Minimalist appearance
- No need to colour match hinges
- Minimal preparation required
- Clampable frame components for quick assembly
- Only five rods per window irrespective of size

Available only from Titon:

- Free expert advice and technical support available
- Ordering and rod calculation software available
- Part numbered packaging for ease of identification
- Ten year manufacturer's warranty



Roto Line

Tilt First Lockable Window Handle

The Roto Line Tilt First Lockable Window Handle uses RAL-tested advanced technology which offers durable functionality. Combined with high-quality aluminium elements, the elegant design with elegant clear lines ensures comfortable handle operation.

The Roto Line Tilt First handle range suites perfectly with the Roto AL Designo hardware system and other window systems with the Tilt First application (tilt before turn).

- Tilt First locking handle
- Multi-function key operation including 'Tilt-Safe' function
- Tilt mode accessible when unlocked
- 'Safe' two stage operation to access turn mode with key
- Can be fully locked in 0 degree position
- 43mm fixing centres / 24mm spindle length
- Suites with the Roto AL Designo hardware system
- Ten-year performance warranty
- Classification in accordance with DIN EN 13126-3



New Products

Hexalok™

High security multi point lock for sliding doors

Titon's new multi-point lock boasts a centre hook bolt and FIVE additional mushroom cams providing extra secure locking and prevents lifting of the sliding doors. It also has unique Torx adjustment to security cams for increased cam strength.

Hexalok™ is available in two versions for optimum cam positioning: Version A (Long) – locking cams spread further apart, and Version B (Short) – cam positions are more closely spaced.

The removable lockcase with its stainless steel gear simplifies maintenance.

Hexalok™ is supplied with standard cams, security cams (1mm less clearance) and 2mm spacers for increased cam height.



DESIGNED AND TESTED IN THE **UK**

Terminus™

Espagnolette

- High quality robust security espagnolette
- Single direction of travel – stronger than bi-parting espagnolettes
- Size range 205mm to 1400mm (1600mm Sash rebate)
- Salt spray tested to 480 Hrs BS EN 1670 (Grade 5)
- Stainless Steel gear for greater strength and durability
- PAS24 Compliant
- Non-handed espagnolette



DESIGNED AND TESTED IN THE **UK**

DESIGNED AND TESTED IN THE **UK**

 Titon®

Exceptionally strong, high security **SIX** point multi-point lock for inline sliding doors

HEXALOK™

- Available in two versions for optimum cam positioning
- Stainless Steel Drive Gears, Racks, Face Bar, Hook & Cams
- 2350mm Lock and 2400mm Keep length
- Highest Grade Corrosion Resistance BS EN 1670 (Grade 5)
- Tested beyond 50,000 cycles
- Supplied with 2x sets of cams (standard and high security)
- Height extendable cams



01206 713801
sales@titon.co.uk

titon.com/hexalok

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sales@titon.co.uk

titon.com/uk

Window Hardware

Overture E

Espagnolette handle

- Ergonomic design; solid and sculptured grip
- Straight or handed versions
- Non-locking and fire escape retrofit options
- 90 degree lock movement for easy recognition
- Double entry key
- Push-in screw covers
- Supplied with machine screws
- 15mm, 25mm, 30mm or 40mm x 7mm spindle options available



Venture

Friction hinge

- Suitable for domestic and light commercial applications
- Adjustable and controlled friction for smooth operation
- Standard and High Stack heights
- Austenitic stainless steel available for high corrosion resistance
- Egress Easy-Clean version
- Additional arm available

- Fully dimensioned technical sheet available for each hinge



Adventure

Heavy duty friction hinge

- Suitable for larger, heavier sashes or commercial applications
- Adjustable and controlled friction for smooth operation
- 16mm stack height
- Made from austenitic stainless steel for high corrosion resistance
- Additional arm available

- Fully dimensioned technical sheet available for each hinge



Capture

Window safety restrictor

- Automatically engages
- Easy to fit
- No key or tools required to de-restrict
- Three length variations available (66mm/110mm/140mm)
- Various pin heights
- Suits most cavity sizes
- Can be retrofitted
- Austenitic stainless steel for improved



Window Hardware

Roto AL Designo Tilt & Turn

Tilt Turn System

Roto AL Designo is the elegant fully concealed hardware for aluminium windows and balcony doors up to 180kg sash weight.

- Tilt before Turn Gear
- Tilt Only and Turn Only options available
- Minimalist appearance
- No need to colour match hinges
- Minimal preparation required
- Clampable frame components for quick assembly
- Only five rods per window irrespective of size



Maco Multipoint Locks

Espagnolette

A wide variety of open-out casement window solutions enabling a vast range of window styles to be manufactured with multi point locking. MACO espagnolettes impress with their PAS 24 security performance, ease of use in operation and efficient installation.



Flex

Window safety restrictor

- Fits all window types
- Push to release
- Key operated deadlock
- Highly visible
- Special lengths and colours to order
- Retro fit (surface mounted)
- Tested to 1200N with no failure



Roto Line

Tilt First Lockable Window Handle

- Tilt First locking handle
- Multi-function key operation including 'Tilt-Safe' function
- Tilt mode accessible when unlocked
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- Can be fully locked in 0 degree position
- 43mm fixing centres / 24mm spindle length
- Suites with the Roto AL Designo hardware system



Door Hardware

Overture DH

Lever door handle range

- Tested to over 100,000 cycles
- In excess of 480 hours salt spray testing (Polished chrome, PVD gold and powder painted finishes only)
- Short (211.5mm) and long (240mm) baseplate options
- Sprung handles
- Supplied with two spindle lengths and two screw lengths as standard
- Colour coordinated screw heads



Overture DH Stainless Steel

Stainless steel lever door handle range

- Tested to over 100,000 cycles
- Both internal and external handles and screws are manufactured in SS304 stainless steel
- Polished and brushed finishes
- All finishes tested in excess of 480 hours salt spray testing - Grade 5 BS EN 1670
- Exceeds 1000 hours salt spray testing with no effect on function and no corrosion to the visible substrate
- Long (240mm) baseplate
- Colour coordinated screw heads



Asterion II - 3 Star Cylinder

Profile cylinder

- Kitemarked to TS007 3-Star rating
- Designed to attain PAS 24 with standard handles
- Tested to BS EN 1303:2015
- Reduced vulnerability of door lock manipulation
- Strengthened support to sacrificial slot adding stability during fabrication and transit
- Supplied with five keys as standard
- Satin Nickel or Satin Brass finish
- Available options:
 - Double cylinder
 - Cylinder and turn
 - Keyed alike
 - Special key alike variants
- Upgraded locking pin material improving attack resistance
- Benefit of an reset mechanism reducing chances of lock-outs
- New cam restraining feature reducing the risk of separation during an attack



Genesis

Intermediate locking handle for Bi-Fold doors

- No visible screws in the closed or open positions
- Side entry lock mechanism avoids key damage to door
- Fixing screws and spindle included
- A range of standard colours/finishes
- Special colours/finishes possible



Door Hardware

Hexalok™

High security multi point lock for sliding doors

Titon's new multi-point lock boasts a centre hook bolt and FIVE additional mushroom cams providing extra secure locking and prevents lifting of the sliding doors. It also has unique Torx adjustment to security cams for increased cam strength.

- Available in two versions for optimum cam positioning
- Stainless Steel Drive Gears, Racks, Face Bar, Hook & Cams
- 2350mm Lock & 2400mm Keep length

- Highest Grade Corrosion Resistance BS EN 1670 (Grade 5)
- Tested beyond 50,000 cycles
- Supplied with 2x sets of cams (standard and high security)
- Height extendable cams
- Slotted fixing holes in lockcase allow flexibility of choice of handles
- Central alignment mark on faceplate and keep



Roller for Horizontal Sliding Doors

Sliding door accessories

- Tested to BS EN 1191:2012
- Passed 7600 cycles (equivalent to 21 years of usage)
- Ball bearings in lieu of needle bearings reduce roller noise and enhance smooth effortless operation
- 31mm diameter stainless steel wheels
- 8mm diameter stainless steel axles
- 2mm thick stainless steel internal carriage frame

- Re-enforced moulded plastic carrier housing
- Height adjustment of 5mm
- Non-adjustment version available (no nuts and bolts)
- Robust design
- Easy to fit into door profile
- New 4-wheel version available

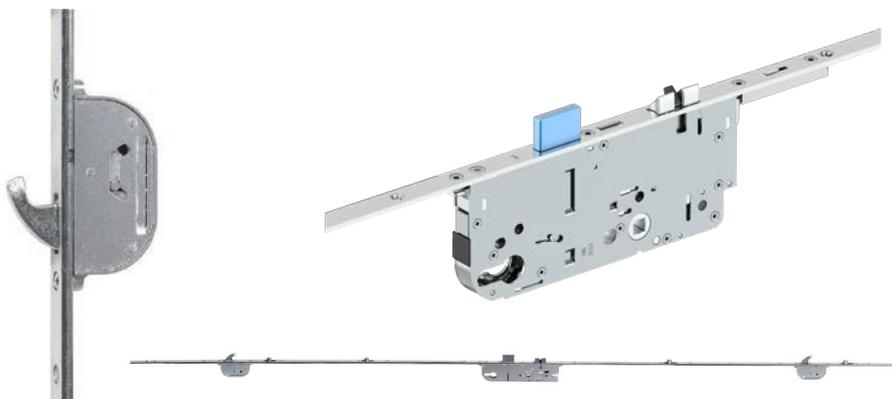


Maco Door Locks

Multipoint security locking systems

The Maco door locks range makes forced entry a difficult job thanks to their special features, which include i.S. security roller cams, steel bolts, locking hooks and a hook & bolt combination.

Various security components, such as the hook&bolt combination, can be used up to burglary-resistance grade PAS24.



Kenrick Door Locks

Multipoint security locking systems

The Kenrick range of multipoint door lock systems are designed to meet the most rigorous standards for security.

The locking systems feature three hooks and two steel anti lift bolts as standard.



Trickle Vents

SF Xtra Sound Attenuator Vent

Surface mounted noise reducing ventilator

- Cost effective sound attenuating ventilator
- Can provide up to 44 $D_{n,e,w}$ attenuation, depending on combination
- Suitable for use in domestic or non-domestic installations
- Ideal for retrofit applications, over an existing slot
- Available in a range of combinations to suit different acoustic specifications
- Fits over a Trimvent® Select, Trimvent® 4000 Hi Lift or Trimvent® Select Xtra slot size
- High performance gasket combined with compression closing action improves sealing in adverse conditions
- For use over a 13mm slot
- Special paint finishes available



SF Xtra

High performance aluminium ventilator

- Simple construction to aid painting, self-assembly & fitting
- Gasket combines with compression closing action improves sealing in adverse conditions
- Available in competitively sized EA rated combinations for optimum compliance with Building Regulations and Technical Standards on Ventilation
- For use over a 13 or 16mm slot
- Ideal for retrofit applications, over a slot or series of holes
- Ideal for use in non-domestic installations
- Available in bar length
- Bar length product available ready painted for assembly or in mill finish for customer painting
- Special paint finishes available



Trimvent Select Xtra (XS13/XS16/XR16)

Plastic slot ventilators

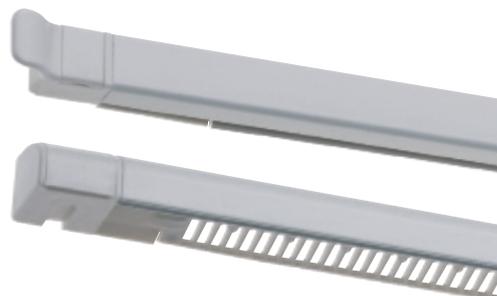
- Suitable for PVCu, timber or aluminium windows - (XR16 timber only)
- Available in competitively sized EA rated combinations for optimum compliance with Building Regulations and Technical Standards on Ventilation
- For use over 13 or 15mm slot (XR16 recesses over 16mm slot in timber)
- Unique occupant controllable tilting T-bar
- For use over 13mm slot - (XR16 recesses over 16mm slot)
- Based on successful Trimvent® principle
- Screw fix or clip fix versions (S13/XS13)
- Patented and registered design



Trimvent SM

Aluminium slot ventilator

- For use on aluminium windows with narrow profiles
- Compression closing action
- For use over 10mm or 12mm slot, ideal for slim sections
- Flexible PVCu seal for improved weather tightness
- Ideal for retrofit applications
- Available in bar length for cutting to size by customer (details on request)
- Special paint finishes available
- Based on successful Trimvent® principle
- Deflects air up and down
- Thermally insulated
- Matching screw covers
- Patented design



Trickle Vents

Trimvent 4000 Hi Lift

Aluminium slot ventilator

- Revised design to improve performance and Regulations compliance
- Compression closing action
- For use on 13mm slot
- Based on successful Trimvent® principle
- T-bar deflects air up and down
- Unique linkages ensure constant friction and smooth action
- Felted gasket for increased performance
- Vent supplied with screw covers, canopy features integral screw covers
- Special colours available on request for all trickle vents
- When specified correctly complies with Building Regulations



Maxiglaze

Energy efficient glazed-in ventilator

- Optimum air opening over length
- Supplied made-to-measure or in bar length
- Designed for easy cutting and assembly from bar length
- Suitable for 24 or 28mm glass thicknesses
- Available in mill finish bar length for customer painting (24mm version only)
- Aluminium or (white) plastic canopy
- Dual colour (inner and outer) finish available
- Cord and rod control versions
- Patented design



SF Xtra Sound Attenuator

Sounds like a good choice...

Ventilation with noise reduction:

- Attenuates up to 44dB ($D_{n,e,w} (C;Ctr) = 44 (-2;-3)dB$)
- Independently tested and verified by BRE and Sound Research Laboratories Ltd
- Available in 2500mm² EA and 5000mm² EA unit sizes
- Standard and special (RAL match) paint finishes
- Can be used on standard Titon slot sizes

 Titon®

TITON.COM/ACOUSTIC



Trickle vents

Plastic Vents

Trimvent® Select Xtra S13/S16

| Product 13mm - 16mm Slot Width | Product Code | (L) Length | (W) Width | (P) Projection Closed-Open | EA (mm ²) | Slot Detail |
|-----------------------------------|--------------|---------------|--------------|----------------------------------|--------------------------|-------------------|
| XS13 2000/2500EA Vent Screw Fix | | | | | 200/2500 | |
| XC13 Canopy Screw Fix | | | | | | |
| XS13 4400EA Vent Screw Fix | TS1134470 | 411 | 18.5 - 30 | 20 - 27 | 4400 | 173.5 20 173.5 13 |
| XC13 412 Canopy Screw Fix | TS2134040 | 411 | 18 | 32.5 | | |
| XS13 5000EA Vent Screw Fix | TS1135070 | 497 | 18.5 - 30 | 20 - 27 | 5000 | 215 20 215 13 |
| XC13 497 Canopy Screw Fix | TS2135040 | 497 | 18 | 32.5 | | |
| XS16 4600EA Vent | TS1164670 | 366 | 21 - 31 | 16 - 28 | 4600 | 151 10 151 16 |
| XC16 364 Canopy | TS2164040 | 364 | 22 | 32.5 | | |

Metal Vents

SF Xtra Vent

| Product 13mm - 16mm Slot Width | Product Code | (L) Length | (W) Width | (P) Projection Closed-Open | EA (mm ²) | Slot Detail |
|-----------------------------------|--------------|---------------|--------------|----------------------------------|--------------------------|-------------------|
| SFX 13 2500EA Vent 294mm | TA7831 | 294 | 23 | 10 - 24 | 2500 | 223 13 |
| SF 318 Canopy | TA5010 | 318 | 23 | 27 | | |
| SFX 13 2500EA Vent 294mm | TA7831 | 294 | 23 | 10 - 24 | 2500 | 223 13 |
| XC13 Canopy (plastic) | TS2132040 | 270 | 18 | 32.5 | | |
| SFX 13 4000EA Vent 434mm | TA7833 | 434 | 23 | 10 - 24 | 4000 | 178.5 10 178.5 13 |
| SF418 Canopy | TA5005 | 418 | 23 | 27 | | |
| SFX 13 4000EA Vent 434mm | TA7833 | 434 | 23 | 10 - 24 | 4000 | 173.5 20 173.5 13 |
| XC13 412 Canopy (plastic) | TS2134040 | 411 | 18 | 32.5 | | |
| SFX 13 5000EA Vent 465mm | TA7838 | 465 | 23 | 10 - 24 | 5000 | 185 10 185 13 |
| HF441 Canopy | TA6054 | 441 | 24 | 36.5 | | |
| SFX 13 5000EA Vent 465mm | TA7838 | 465 | 23 | 10 - 24 | 5000 | 198 10 198 13 |
| SFX418 Plastic Clip Fix Canopy | TA7841 | 418 | 18 | 36.5 | | |
| SFX 16 4000EA Vent 374mm | TA7861 | 374 | 27 | 10 - 27.5 | 4000 | 151 10 151 16 |
| HF404 Canopy | TA6059 | 404 | 24 | 6.5 | | |
| SFX 16 4000EA Vent 374mm | TA7861 | 374 | 27 | 10 - 27.5 | 4000 | 151 10 151 16 |
| XC16 364 Canopy (plastic) | TS2164040 | 364 | 22 | 32.5 | | |

TV4000 Hi Lift

| Product | Product Code | (L) Length | (W) Width | (P) Projection Closed-Open | EA (mm ²) | Slot Detail |
|---------------------------|--------------|---------------|--------------|----------------------------------|--------------------------|----------------------|
| TV4000 HL 2200EA 255 Vent | TA4042 | 255 | 17 | 28 - 38 | 2200 | 223 13 |
| HF 263 Canopy | TA6053 | 263 | 24 | 36.5 | | |
| TV4000 HL 4000EA 400 Vent | TA4041 | 400 | 17 | 28 - 38 | 4000 | 173.5 20 173.5 13 |
| HF 441 Canopy | TA6054 | 441 | 24 | 36.5 | | |
| TV4000 HL 6000EA 575 Vent | TA4044 | 575 | 17 | 28 - 38 | 6000 | 173 12 173 12 173 13 |
| HF 582 Canopy | TA6004 | 582 | 24 | 36.5 | | |

Acoustic Vents

SF Xtra Sound Attenuator

Available in three inner and outer projection combinations, 25mm, 50mm and 75mm. A standard vent and canopy can also be used on inner or outer if higher performance according to attenuation spec.

| Product | Product Code | (L) Length | (W) Width | (P) Projection Closed-Open | EA (mm ²) | Slot Detail |
|---|--------------|---------------|--------------|----------------------------------|--------------------------|-------------------|
| SF Xtra Sound Attenuator 2500EA Vent 25mm | TA5221 | 464 | 35 | 37-51 | 3470 | 173.5 20 173.5 13 |
| SF Xtra Sound Attenuator 4000EA Vent 75mm | | | | | | |
| SF Xtra Sound Attenuator 5000EA Vent 75mm | TA5235 | 523 | 35 | 87-101 | 5517 | 215 8 215 13 |