Window & Door Hardware
Range Overview

Titon®
Titon offers a wide range of window and door products for all window opening types and materials. Two dedicated Divisions exist within Titon to specifically offer knowledge, support and products for any project or requirement. The Timber & PVCu Division offers standard and specialist product for those respective materials and the Aluminium Division deals with the more specification and project-lead work in the non-domestic and domestic aluminium sector.

This leaflet is intended only as an overview of the most common items in the Titon window and door fittings portfolio. There are many more in the more detailed product catalogues and the redesigned www.titon.co.uk website.

Approved Document Q (Security – Dwellings) of the Building Regulations is now in effect and states that all doors and windows for use in new build projects must be ‘manufactured to a design that has been shown by testing to meet the security requirements of British Standards publication PAS 24:2012.’ Titon offers many window and door products that assist in compliance with PAS 24, provided the window or door is designed and manufactured to applicable levels.

Not only can Titon’s hardware development facility, now known as Titon AREA 24, run indicative testing to help guide fabricators towards full PAS 24 certification, the company is now a member of the Secured by Design initiative. Secured by Design accredits security related products and services through technical and professional evaluations to ensure they offer an effective crime prevention benefit. A number of Titon products are now Secured by Design certified.

Titon has also launched a website, www.titonarea24.co.uk which provides a ready reckoner as to what products in the window and door range should achieve PAS 24 in specific combinations. Every time a new product is launched after extensive development in Titon’s AREA 24 facility, it is added to the titonarea24.co.uk database.
Window Hardware

SecuriStyle Defender & Sterling – Friction Hinge
- Defender suitable for standard duty applications
- Sterling suitable for heavy duty applications
- Top and side hung versions
- Defender ferritic, Sterling austenitic as standard; Defender austenitic available.
- Defender available in Easy Clean, Fire Egress, High Stack and built-in Restrictor variants
- Hinge Guard available for security applications

Venture – Friction Hinge
- Suitable for standard duty applications
- Top and side hung
- Adjustable and controlled friction for smooth operation
- Extended end cap for enhanced weather sealing
- Egress Easy Clean version available
- 13mm stack height. High Stack height version available
- Titon Hinge Guard available for security applications
- Tested to 25,000 cycles
- Developed and tested to enable windows to pass BS EN 14351-1

Adventure – Heavy Duty Friction Hinge
- Suitable for larger, heavier sashes or commercial applications
- Top and side hung
- Adjustable and controlled friction for smooth operation
- Metal end cap for strength
- 16/17mm stack height
- Made from austenitic stainless steel for corrosion resistance
- Tested to 25,000 cycles
- Developed and tested to enable windows to pass BS EN 14351-1

Capture – Restrictor
- Automatically engages
- Easy to fit
- No key or tools required to de-restrict
- Various pin heights available
- Suits all cavity sizes
- Can be retrofitted
- Austenitic stainless steel for improved corrosion resistance
MACO Mk.1, Mk.2 & M-SPAG – Shootbolts

- All suitable for PAS 24 compliance
- M-SPAG is a telescopic shootbolt espagnolette, also with a croppable size
- Shootbolts utilise interlocking keeps for strength
- Choice of mushroom heights, backsets and profile related keeps
- Can be used with low handle height options
- For use in 16mm eurogroove

MACO Espags & R.A.I.L. – Espagnolette

- Inline espag suitable for use in 16mm eurogroove
- Offset espag suitable for use with or without 16mm eurogroove
- Choice of mushroom heights, backsets and profile related keeps
- R.A.I.L. espag reverse action lock designed for PAS 24 compliance
- R.A.I.L. Reach for low handle height situations

Assert – Espagnolette

- Suitable on windows with 16mm eurogroove
- Mushroom head cams aid security
- 7.7mm and 9mm mushroom cam heights
- 20mm and 22mm backset versions
- Size options 280mm to 1200mm
- Range of profile related keeps
- Silver finish BS EN 1670 Grade 4 (240 hours)

Overture E – Espagnolette Handle

- High quality finish
- Ergonomic design; solid and sculptured grip
- Suites with Overture DH door handle range
- Straight and handed options
- Non-locking and fire escape retrofit options
- 90 degree lock movement for user recognition
- Supplied with screw covers and machine screws
- Choice of spindle lengths
- 7mm square spindle
- 43mm fixing centres
Other Window Opening Gear

- Tilt and turn fittings (MACO and Sobinco)
- Fully reversible hinges (Peder Nielsen)
- Pivot hinges (Sobinco)

Other Window Locks

Titon offers a comprehensive range of window handles and locks suitable for a variety of window types and materials.

- Cockspur handle and Casement Stay
- Restrictors

Alliance – Cam Catch

- Locking or non locking versions
- Front facing lock
- Spring loaded to ensure sash clearance
- Various keep designs available
- Capable of achieving PAS 24 (dependent on window design)
- Interlocking design for increased security

Trickle Ventilators

- Suitable for PVCu, timber or aluminium windows
- Metal or plastic designs available
- Slot or glazed-in types
- Screw or clip fix versions
- High EA provision over length for Building Regulation Technical Standards compliance
- Canopy and grille options for some designs
- Sound attenuating (acoustic) model available
- Metal vents have high performance seal
Door Hardware

MACO CT-S – Door Lock
- Single door lock for use as lift lever or split spindle operation
- Single and double door configurations available
- Suitable for sprung and unsprung handle sets
- Forged steel deadbolt locking hook bolts for increased security
- High levels of adjustability
- PAS 24 capability using hook bolts
- Available in MACO TriCOAT

Asterion - Three Star Profile Cylinder
- Capable of achieving PAS 24 with standard handles
- Tested to BS EN 1303:2005
- Kitemarked to TS007 3-Star rating - Kitemark No. 631878
- Available in sizes 74mm to 110mm
- Supplied with five keys
- Newly developed design with sacrificial break-slots
- Two stage Thumb Turn mechanism assists in compliance with TS008
- Double Cylinder, Cylinder and Turn, Half Cylinder and Keyed Alike options
- Satin Nickel Plate or Satin Brass finish

Overture DH - Door Handles
- Sculptured design suites with Overture E window handle
- Lever/Lever and Lever/Pad options
- Choice of 211.5mm or 240mm baseplate
- Tested to over 100,000 cycles
- All finishes salt spray tested to BS EN 1670 Class 4 240 hours
- Sprung handles
- Individually packed, including two spindle lengths and two screw lengths

Overture FH – Flag Hinge
- Newly developed product
- Strong design capable of use on doors up to 120kg
- Suitable for use on PAS 24 doors
- Part of the Overture suited window and door hardware range
- Fixing jigs available
Overture LP - Letter Plate
- High quality sprung letter plate
- All finishes salt spray tested to BS EN 1670 Class 4 240 hours
- Features weather brush
- Frame gaskets provided
- External flap features weather gasket

Overture DK & V – Door Knocker & Viewer
Door knocker
- Urn design
- Available with or without Door Viewer aperture
- All finishes salt spray tested to BS EN 1670 Class 4 240 hours

Viewer
- 35-60mm or 60-90mm long options available
- Minimum 120 degree viewing angle
- Polished Brass or Chrome finish

Overture SC & N – Security Chain & Numerals
Security Chain
- Visible chain to act as a deterrent
- Sturdy design
- Easy to fit on different door/frame details
- Gold or Chrome finish

Numerals and letters
- All finishes salt spray tested to BS EN 1670 Class 4 240 hours
- Classic design
- Easy to fit
- Gold or Chrome finish
- 0-9 and A-B available

Genesis – Bi-Fold Handle
- Can be used instead of ‘D’ handles
- No visible screws in closed or open positions
- Easy to fit bi-parting gearbox, rods and end pieces also available
- Range of colours and finishes available
- Side entry lock mechanism means no protruding keys, avoids damage