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Titon is a long established company specialising in ventilation. It was founded in 1972 by John Anderson, its current Chairman, and is based in Colchester, Essex. It floated on the London Stock Exchange in 1988 as Titon Holdings Plc. Titon employs around 170 people divided between its head office in Colchester and its factory in Haverhill, Suffolk.

Titon manufactures and supplies ventilation and window products—ranging from its signature Trimvent background ventilator to window handles, locking systems and hinge systems to powered ventilation products including whole house systems and extract fans. As a manufacturer, Titon also invests heavily in research and development, which enables the company to use the latest technology to keep its products both innovative and cost effective.

Focusing primarily on new build and social housing, Titon works with house builders to assist in compliance with certain aspects of Building Regulations and Standards, particularly ventilation in housing. Titon’s own dedicated Building Regulations website www.partf.co.uk is a comprehensive resource of information on legislation, how it affects house design, and offers tools such as CPD (Continuing Professional Development) seminars for architects and consultants.
Titon has specialist divisions focusing on its main market areas – Timber and PVCu, Aluminium and Ventilation Systems. These divisions have their own dedicated sales teams which cover the UK. They are supported from the Head Office in Colchester with full administration and marketing departments. Additionally, a state-of-the-art manufacturing base at Haverhill is home to the production and research and development departments.

As you would expect, Titon places a strong emphasis on quality, testing and customer service and is also affiliated to a number of industry organisations.

In addition to its UK activities, Titon exports its products to a range of overseas markets. The USA market is supplied through its wholly owned subsidiary; Titon Inc. Elsewhere Titon has appointed distributors within most major world markets. Titon works closely with these distributors to supply its products effectively and to support them in providing the high level of service synonymous with the Titon brand.
When it comes to quality, Titon is committed to excellence and the total satisfaction of its customers and their specific requirements. It strives to be an efficient supplier and to offer its customers a prompt, courteous and effective service. The company seeks to handle and deliver products and services in a manner that is not detrimental to the environment or to the Health and Safety of its staff, customers, or the general public both inside and outside its facilities.

Titon’s objective of consistent high quality performance is met by mandatory adherence to procedures, through staff training and the development of personal responsibility for all employees, together with the provision of adequate resources, according to the principles of Quality Assurance.

Titon has full ISO9001 Certification which is the internationally recognised standard for the quality management of businesses. ISO9001 ensures standards are met and monitored in eight core quality management areas, including customer focus, leadership, the involvement of people, a process approach, a systematic approach to management, continual improvement, a factual approach to decision making and a mutually beneficial supplier relationship.

In 2007, Titon celebrated the recognition of its green credentials following the award of its ISO14001 Environmental Management Standard certification.

Titon has a large research, development and testing department in Haverhill, Suffolk. All of Titon’s products are subjected to a rigorous regime of quality testing to ensure they meet the performance criteria specified, as well as delivering reliability and optimum performance. To enable Titon to demonstrate its quality, it will test products, wherever applicable, to the latest British and European standards – including full CE approval.

If you have a specification which requires product use in extreme conditions then Titon will investigate further. Please call Titon on: 01206 713800 for more details.
Sales and Service

Titon has a strong Sales and Specification presence throughout the UK and overseas. The Company employs specialists for each market sector in regional locations, in order to give fast and efficient support to customers and specifiers. The Sales teams have a solid technical background to assist in application problems and offer ‘hands-on’ advice.

At Colchester dedicated Sales and Technical Offices supporting the three divisions offer peace of mind to callers via modern systems and extensive product knowledge. Many Titon employees have years of experience in the window and door hardware sector or in domestic ventilation products and this is reflected in the Company’s high service levels. This is unique in an industry where the traditional route to market is through wholesalers or distributors, who by definition cannot provide the same standard of service and expertise. It is therefore very important to the Company to retain its existing research, design, development and manufacturing focus, benefiting the Sales team with a more empathetic approach to market demands.

Orders can be placed via the Sales Office, or by email and soon via the Titon website, giving the purchaser the choice of the most convenient method for them.

Regional Sales and Specification Managers can be contacted to arrange an appointment, either on site or on premises, which allows for more productive discussions and a better appreciation of the customer’s requirements.

Titon prides itself on the Regulatory and Standards knowledge the Company has gathered over the years, and can visit to disseminate this information in the structured and unbiased form of CPD presentations. These are particularly useful when legislative revisions have just been made and the Company has received very positive feedback on the quality of these seminars.

Titon’s position as experts on domestic ventilation is re-enforced by the publication of regular email newsletters to update subscribers on new products, information and services. Subscription to these newsletters is easy via the Titon or www.partf.co.uk websites.

Titon: The knowledge behind the products.
Ventilation

Energy efficiency is the order of today. Seal up and insulate houses to reduce heating requirements and therefore greenhouse gases. But getting the ventilation right is vital.

Ventilation, heating and insulation are the three factors which combine to affect a building’s performance, and also the occupants’ health. Ventilation is key to reducing condensation and associated mould growth – protecting both the building fabric and the wellbeing of the homeowners.

To achieve improved levels of ventilation, heating and insulation and the balance between them, the Building Regulations in England & Wales, as well as other countries, are being regularly updated, but the emphasis continues towards more whole building ventilation solutions.

For domestic situations there are more involved requirements which take into account the total ventilation levels throughout the dwelling.

In non-domestic buildings, as before, each project has its own set of design issues and to allow for this there are various documents available which give guidance according to the building type. These are referred to within the Regulations.

Windows and doors play an important part in providing ventilation in a home, whether it’s opening a window for ‘purge’ ventilation or through the use of trickle vents for controlled and secure background ventilation.

"Titon is a major source of knowledge on ventilation and offers advice on all aspects of the subject."

Titon’s ventilation range includes full whole house systems, which have come to the fore due to the emphasis on improved energy efficiency, as well as trickle vents and window opening systems.

Replacement windows are fitted to reduce air leakage and insulate from the cold outside. It is essential to fit trickle ventilators in these circumstances, as they will compensate for the reduction in accidental air leakage around old or poorly fitted frames and glass. Major building research bodies and energy efficiency programmes advocate the need for secure background ventilation. Ventilation through handle night vent positions is being discouraged as a result. Trickle vents should therefore be installed as good practice in all replacement windows as endorsed by recent GGF guidance.
Titon also has a number of fittings and accessories suitable for use in what are called ‘limited access’ situations. The term ‘limited access’ includes windows and ventilators that cannot be reached in normal circumstances, for instance over a sink, in a stairwell or high up in a sports hall, as well as windows where the user has limited dexterity or mobility.

Titon is a major source of knowledge on ventilation and offers advice on all aspects of the subject. A dedicated information website www.partf.co.uk is regularly updated with news on legislative developments in England & Wales. The site also runs a subscription service to those interested in receiving Updates via email.

Titon has also produced a number of publications to help the window fabricator and specifier learn more.
Handles, Fittings & Ventilation for PVCu or timber windows and doors

Titon's has a team specialising in timber and PVCu products and they can be contacted for technical and installation advice, as well as advice on specification to ensure the right products are chosen for an installation. The team liaises closely with the technical and testing department at Titon to deliver an integrated approach to product selection.

The range of products available includes Titon's signature trickle ventilators – Trimvent. There are several types of trickle vents – from surface mounted to recessed mounted – as well as glazed-in vents and purpose made acoustic ventilators. Titon also has an extensive range of handles, espagnolettes, hinge and locking systems. These include the Select range of handles which feature push button opening, self latching closure, refined ergonomics, easy operation to reduce wear and tear, clearly indication 90° locking movement, screw covers and a high quality finish thanks to Titon's new die-casting methods. The Select handles are designed to match the Trimvent range of trickle ventilators.

Titon's range of espagnolettes and shoot bolts are easy to operate and simple to adjust. They provide added security over traditional window handle and keep-type closures and have been designed for easy fabrication with simple fixings. Complementing these products are hinges and hinge systems, including tilt-and-turn options and fully reversible window hinges. The ranges feature different window materials, higher security options, ability to clean easily, different methods of restriction and scope for rapid or purge ventilation.

Titon's customers for its timber and PVCu products include all the major window manufacturers and fabricators, as well as specifiers such as local authorities, ALMOs, and RSLs. Titon also works directly with architects, architectural technologists and housebuilders.

Contact: timberandpvcu@titon.co.uk
Domestic ventilation products for all types of dwellings

Ventilation has become one of the hot topics of the building industry in recent years – particularly now that the Building Regulations for England & Wales are revised on a regular basis. We have a fully trained and experienced team which specialises in domestic ventilation. They work with house builders and developers, as well as local authorities and housing associations, to provide the right solution for any development to ensure it complies with Part F (Ventilation) of the Building Regulations and other Technical Standards.

Titon offer products to comply with Part F:

**System One**
Historically the most common method of ventilation for new dwellings and refurbishment situations, and still applicable in many circumstances. Our products include everything from trickle vents to glazed-in vents and extractor fans.

**System Three**
Titon offers highly competitive Central Mechanical Extract units, together with a full range of ducting and accessories. Fully SAP Appendix Q rated versions are available, with energy efficient output and ventilation levels.

**System Four**
Titon is also well known for its whole house systems and has successfully supplied MVHR units across the UK. Again, some versions are fully SAP Appendix Q rated, developed using Titon’s expertise in all aspects of ventilation. Ducting and accessories are available.

Contact: ventsales@titon.co.uk
Handles, Fittings and Ventilators for aluminium windows and doors
This catalogue is an overview of the Titon range of fittings for aluminium windows and doors.

The range includes products from market leaders such as; Sobinco, Peder Nielsen, Securistyle, and Maco, as well as Titon’s own ventilators and handles.

The catalogue can be used as an introduction to the comprehensive Sobinco product range, for which Titon is the exclusive UK distributor.

There are three Sobinco product catalogues, featuring thousands of fittings specifically designed for use on aluminium windows and doors suitable for either domestic or commercial projects.

Each of the three catalogues (Windows, Doors and Ventilation) shows fully dimensioned drawings of all the product variations. The catalogues are available in pdf version at www.titon.co.uk or can of course be supplied in hard copy.

Throughout this catalogue you will find helpful symbols to inform you which type of profile the product is most suitable for.

- Flat profile without vent groove
- 16mm PVCu type vent groove
- Link-rod type vent groove
Windows

This section shows the wide variety of hardware available from Titon for aluminium windows.

An extensive range of hinges and pivots provide a choice of different opening formats. Handles, locks and restrictors enable specifiers and fabricators to select the best combination for virtually any application.

Most of the product lines have been specified and used over many years and all feature high levels of manufacturing quality and therefore durability.

Further, more detailed, information on all the products shown, is available at www.titon.co.uk, alternatively email aluminium@titon.co.uk or call 01206 713800 where our dedicated Aluminium team can offer advice and prices.
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Sobinco Chrono
Fast fit hinge and locking system for Tilt and Turn, Side or Bottom-Hung Open-In windows

Features and Benefits

- Suitable for all window types
- Standard, High Security French Casement and Fully Concealed Hinge versions available
- No cutting or drilling of link rods required
- Assembly in under five minutes using revolutionary rod system
- Maximum sash weight; 130kg or 170kg
- Choice of handle designs and types
- Self locating clamp-on hinges

Technical Details - Sobinco Catalogue Sections
C.4, C.6, C.9, C.10, C.22, B.1, B.3, B.4, B.5, D.1, D.3, & D.4

Revolutionary rod system
Sobinco Invisi-Top
Concealed remote control operating system for Bottom-Hung Open-In windows

Features and Benefits

- Concealed multipoint locking system
- Low operating force
- Quick assembly using Chrono rod system
- High security option

Technical Details - Sobinco Catalogue Sections E.9 & E.10
Perimeter Locking
Multi-point locking for pivot windows

Features and Benefits

Pivot perimeter locking system

- For pivot windows with locking rod groove
- Single handle multi-locking operation
- Various sizes and configurations of wedges and locking rollers available to suit different profiles
- Various types of handles available
- Chrono rod option

Technical Details - Sobinco Catalogue
Sections A.10 & A.13
Sobinco Top V
Remote control operating system

Features and Benefits

Top V remote control system
• For open in or open out windows
• Manual or electric operation
• Manual control with lever or winder operation
• Positive closure mechanism
• Multi sash control
• 170mm total sash movement
• Ideal for limited access situations

Technical Details - Sobinco Catalogue
Sections E.11 & E.12
Securistyle Defender
Friction hinge

Features and Benefits

- Adjustable and controlled friction for smooth operation
- Efficient locating system by means of a patented asymmetrical end cap
- Extended enclosed end cap for enhanced weather sealing
- 13, 16 & 17mm stack heights
- Austenitic stainless steel versions available for high corrosion resistance
- Can be supplied with built-in restrictor
- Easy Clean and Fire Egress versions available
- Vector Excluder Security device available to improve security
- Defender Plus version offers increased carrying capacity
Securistyle Sterling
Heavy duty friction hinge

Features and Benefits

- Heavy duty hinge
- Adjustable and controlled friction for smooth operation
- Efficient locating system by means of a patented asymmetrical end cap
- Improved weather sealing and draught proofing performance
- Easy clean version available
- 17mm stack height as standard
- Made from austenitic stainless steel for high corrosion resistance
Trojan Mega Egress
Friction hinge

Features and Benefits

• For use on fire escape windows
• One size suits all frame widths up to 900mm (subject to minimum requirements)
• Opens like a butt hinge
• Stainless steel
• Maximum 40kg vent weight
PN Uni System
Fully reversible window hinge system

Features and Benefits

- All versions utilise the same section details
- All versions give a universal external appearance to all windows
- Available in Top Swing fully reversible, Side Hung Easy Clean or Top Hung projecting versions
- Safe and smooth operating action
- Fully reversible models allow safe cleaning of window from within the building
- Open outwards with no projection into the room
- Top Swing features two point restrictor and reverse positions
- Side Hung suitable for fire egress opening

Size limits

Top Swing
Sash height: 458-1558mm.
Top and side hung sizes are dependant on window material. Details on request.

Weight capacity

Maximum sash weight:
Top Swing - 60kg
Projecting Top Hung - 60kg
Projecting Side Hung - 50kg
Side Hung - 50kg
### Sobinco Luna
Fully reversible pivot hinge

#### Features and Benefits

- For horizontally or vertically pivoted sections
- Available with integral automatic restrictor with stop at 10 or 15 degrees and automatically engaging reverse stop at 170 degrees
- Restrictor design reduces risk of accidental operation
- Restrictor on front face of pivot for easy access and clearance for plaster line
- Pivot design is profile related
- Adjustable friction mechanism
- Demountable or non-demountable versions
- Integral skirts and sealed angular legs for optimum weathering - optional on some models
- Key operated restrictor available
- Elongated fixing holes for adjustment during installation
- Pivot design service for new profiles

#### Technical Details - Sobinco Catalogue Section A.11

#### Size limits

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![Closed position](image1)

![Fully reversed position](image2)

![Closed](image3)

![Restricted](image4)

!['A' type](image5)

!['C' type](image6)
Sobinco 490
Fully reversible pivot hinge

Features and Benefits

- For horizontally or vertically pivoted sections
- Available with integral automatic restrictor with stop at 10 or 15 degrees and automatically engaging reverse stop at 180 degrees
- Restrictor available in three different designs
- Pivot design is profile related
- Adjustable friction mechanism
- Demountable or non-demountable versions
- Integral skirts and sealed angular legs for optimum weathering - optional on some models
- Key operated semi-automatic integral restrictor available
- Elongated fixing holes on some models
- Pivot compatibility design service for new profiles

Technical Details - Sobinco Catalogue Section A.12

Size limits

Maximum sash weight:
Horizontal – 180Kg
Vertical – 120Kg
Maco Multi Trend Invisible
Concealed tilt and turn hinge system

Features and Benefits

- Anti-slam device
- Three dimensional hinge adjustment
- Adjustable sash lifter prevents sash drop
- Enhanced Security version available
- Fits smaller mullion profiles

Size limits

Sash widths 395-1310mm.
Sash heights 500-2350mm.
For sizes close to these limits check if other limiting factors apply.
Maximum sash weight 100kg
Corner Transmissions

- Many different designs
- Customised solutions for your profiles

Technical Details - Sobinco Catalogue
Section A.16

Wedges

- Many designs
- Customised solutions for your profiles

Technical Details - Sobinco Catalogue
Section A.18

Features and Benefits
Derwent and Virage
Cockspur handles

Features and Benefits

Key locking cockspur handle

Virage
- Handed grip
- Key locking or fire escape option
- Available in white, silver and black

Derwent
- Handed grip
- Key locking, non locking or fire escape option
- Powder coated or plated finishes
Derwent and Cadenza
Espagnolette handles

Features and Benefits

Locking espagnolette solutions

Cadenza
- Handed, In-line autolock, push to open (PTO) options
- Gearing mechanism self contained within handle
- Slide option lengths: 18, 35 & 48mm, other sizes to order
- Satin chrome and white paint finishes (other finishes available on request)

Derwent
- Handed grip
- Key locking, non locking or fire escape options
- Standard spindle size 30 x 7mm, other sizes available
- Powder coated or anodised plated finishes
Caldwell Folding Openers
Openers for top hung windows

Features and Benefits

- Type ‘18’ for 100mm sash movement (top swing windows)
- Type ‘110’ & ‘112’ for 150mm sash movement
- ‘Extended’ type for 315mm sash movement
- Suitable for top hung, fully reversible and pivot windows
- Suitable for school, hospital and office applications
- Can be linked in pairs, or threes for wide windows
- Can be operated at high level by using a tandem eye & pole operator

Tandem bars
- Simple easy to use hand operation
- Should be used on window sashes wider than 800mm

Pole operators
- Standard length 1400mm, longer or shorter poles available on request
- Supplied with large or small boss depending on style of tandem eye

Hand operator
- Will fit any folding opener

Tandem eye adaptor kit
- For use where 263 tandem eye is required on single folding opener
- Kit includes tandem eye, adaptor bar, end cap and fixing screws.

Tandem eyes
- For use with opener linked by tandem bar with pole operation
- Fitted centrally or immediately to the side of the central folding opener
- 260, 263 used on 110 type folding openers.
  For use with small boss pole operator
- 262 used on 112 type folding opener.
  For use with large boss pole operator

Packers
- Vent bracket packers available to accommodate intermediate step sizes
- Powder coated or anodised finishes
Ligature Resistant Fittings
Fittings for windows in controlled environments

Features and Benefits

• A range of products is available for use. Due to the complexities and variations in each application, there is not a single solution. We are happy to discuss your requirements and provide customised solutions where applicable.
• Other "Fireman’s axe" fittings are available
• Powder coated or anodised finishes available
• Note: The final choice of product is the responsibility of the specifier
Maco Fixed Faceplate Espagnolettes
Multi-point locking systems

Features and Benefits

16mm Eurogroove
- Designed to give greater security in line with BS7950 and Secured By Design
- Integral shootbolts with selectable 10 or 13mm throw*
- Interlocking keeps for improved strength*
- 20 or 22mm backset
- 7.7, 9 or 10.5mm mushroom cam heights*
- Low handle height options*
- 3 sided locking options*
- Adjustable compression
- Large range of strikes and bespoke strike options
* Not available on all models

No Eurogroove
- Can fit to a flat surface
- 20 or 25mm backset

Shootbolt (Non Croppable) Detail
Slide Espagnolette
Slide driven multi-point locking systems

Features and Benefits

- Special sizes made to order
- Design your own espagnolette
- For use on profiles without eurogroove
- 400, 600, 800, 1000 & 1200mm bar lengths available
- Custom made keeps available
- Use with ‘Cadenza’ style handle
- Supplied with fixing bushes
Trojan Espagnolettes
Multi-point locking systems

Features and Benefits

- Four different designs
- Shootbolt options
- Option for flat profiles without Eurogroove
- In-line and offset lockcases
- Mushroom headed adjustable locking points
- Capable of achieving BS7950
- Stainless steel
- Large range of keeps
- Fast-fit with no cropping
Spring Catch and Window Stay
Clampable catch and window stay

Features and Benefits

- Quick and easy to install: no drilling or machining
- Spring catch clamps into eurogroove
- Maximum window movement: 185mm
  Minimum vent width: 300mm
- Adjustment range: +/- 2mm.
- Used with a purpose designed, detachable window stay
- Powder coated or anodised finishes
- Connecting bars for twin catches
- Pole operator with hook for bars
- Various other designs of traditional spring catches and keeps

See Sobinco catalogue section D.13, D.14 for further information

Operating with Pole and Hook
Autolatch Restrictor
Window restrictor

Features and Benefits

- Automatically engages
- Easy to fit
- No key or tools required to de-restrict
- Various pin heights
- Suits all cavity sizes
- Can be retrofitted
- Austenitic stainless steel version available for improved corrosion resistance

Right Hand (RH) shown

16mm  
85mm  
40mm  
16mm
Macco Laminated Window restrictor

Features and Benefits

- Designed to comply with BS8213
- Automatically engages
- Easy to fit
- No key or tools required to de-restrict
- De-restriction is a two handed operation
- Various pin heights
- Suits all cavity sizes
- Can be retrofitted

Left Hand (RH) shown
Securistyle Restrictor Stays
Window restrictor stay

Features and Benefits

- Withstands a force of up to 600N in restricted position
- Enhanced corrosion resistance
- Easy to fit, no routing required
- Suitable for cavities between 13 and 18mm
- Non handed
PN Lock Bar
Window restrictor stay

Features and Benefits

- Face mounted, factory fit or retrofit
- Open window may be latched in three positions
- Can only be de-restricted when window is closed
- Designed to accommodate all sash opening angles
- Works on inward and outward opening sashes
- Retainer clip supplied
Flex
Window restrictor stay

Features and Benefits

- 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
Swing Opener
For top hung windows

Features and Benefits

- Opens, closes and locks the window
- Adjustable locking pressure
- Detachable option
- Powder coated or anodised finishes

See Sobinco section D.15 for further information
Res-Lok
Window restrictor

Features and Benefits

- Automatic locking
- Automatic engaging
- Concealed
- Key release
- Restricts to 100mm opening
- Complies with BS6375 part 2 and BS8213-1

For tilt and turn and open in

For open out
Doors

This section shows the wide variety of hardware available from Titon for aluminium doors. An extensive range of hinges, handles, locks and restrictors enable specifiers and fabricators to select the best combination for virtually any application.

Most of the product lines have been specified and used over many years and all feature high levels of manufacturing quality and therefore durability.

Further, more detailed, information on all the products shown, is available at www.titon.co.uk, alternatively email aluminium@titon.co.uk or call 01206 713800 where our dedicated Aluminium team can offer advice and prices.
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Sobinco Tilt and Slide 55
Sobinco Penta-lock 56
Sobinco Door Locks
Door locking systems

Features and Benefits

- Latch bolt and dead lock
- Roller and dead bolt
- Dead bolt only
- High Security option
- Multipoint locking
- Hook and pin version
- Flat and "U" faceplates
- Electric strike options

Technical Details - Sobinco Catalogue Sections K.10, K.11 & K.12

Pivoting dead bolt locking systems with high security options

Roller and dead bolt
Latch bolt and dead bolt
Hook and pin lock
3 point lock
Sobinco Cylinders
Security door lock cylinders

Features and Benefits

- Key/key
- Key/thumb or knob
- Half cylinders
- High-security cylinder
- Mastering

Technical Details - Sobinco Catalogue Section K.13
Sobinco Door Hinges
Clamp-on or face fixed door hinges

Features and Benefits

2800 Series:
• Hinge clamps on; no drilling or milling required
• Suitable for rebated Open In and Out doors with eurogroove
• Door weight up to 120kg
• 2 dimensional adjustment

Face fixed:
• Suitable for heavy duty applications; door weight up to 120kg
• 2-part hinge available with 2D or 3D adjustment. 3-part hinge is 2D only
• Aluminium cover caps cannot be removed from the outside
• Jigs available

Technical Details - Sobinco Catalogue Sections K.22 and K.17
Sobinco Door Bolts
Slave leaf door bolts

**Features and Benefits**

- Various designs of bolt available to suit different applications

Technical Details - Sobinco Catalogue
Section K.18

Concealed lever
Flat bolt
Lever operation
Sobinco Door Fittings
Door accessories

Features and Benefits

- Foot operated doors stay
- Patio, slave door or folding door lock
- Security pin provides additional security for windows or doors

Technical Details - Sobinco Catalogue
Section K.21

Door stay 760
Lock 529TB
Security pin 4208-141
Sobinco Door Closers
Adjustable door closers

Features and Benefits

- Surface mounted models 3710 & 3711 for doors up to 1400mm wide
- Optional hold open device
- Floor mounted model 3600 suitable for single and double doors
- Concealed overhead model 3800 suitable for double door action aluminium doors

Technical Details - Sobinco Catalogue
Section K.19
Sobinco Sobinox Handles and Pulls
Stainless steel door handles and pulls

Features and Benefits

Handles
• Manufactured from high-grade stainless steel AISI 304
• 8mm square spindle as standard
• Many shapes and combinations of grip/backplate
• Long and short backplates available
• Matching window handles

Pulls
• Various shaped designs
• Various sizes

Stainless steel escutcheons and door knobs

Escutcheons
• Used on door handles with short backplates

Door knobs
• Fixed and turn knobs available
• Turn knob features red-green indicator

Technical Details - Sobinco Catalogue
Section K.15
Sobinco Exit Panic Devices
Emergency exit door openers

Features and Benefits

- Can be used on left or right hand doors
- Option with open/closed indicator
- Option for cylinder inside and/or outside
- CE marked
- Vertical rods and latch bolts provide additional top and bottom locking points
- Can be supplied in any RAL colour

Technical Details - Sobinco Catalogue
Section K.20
**Sobinco Lift-Slide**

Operating system for sliding doors

### Features and Benefits

- Ideal for very heavy and large doors
- Suitable for 2, 4 and 6 part lift-slide doors
- Easy operation even with very heavy doors

### Size range

- Vent weight: 150 - up to 250 kg
- Vent width: 625 - 3265mm
- Vent height: 730 - 2860mm

Technical Details - Sobinco Catalogue  
Section G.18
Sobinco Tilt and Slide
Operating system for tilt and slide doors

Features and Benefits

Tilt and Slide operating system
- Door handle controls lock, unlock, tilt, slide and close positions
- System is suitable for aluminium sections with a vent groove of 15/20mm and a frame groove of 14/18mm
- Height adjustable, balanced bogies
- Also available for windows

Size range
Width: 650 - 1880mm
Height: 930 - 2430mm
Ratio of window height/window width: 2.7 maximum
Maximum window weight: 180kg

Technical Details - Sobinco Catalogue
Section H.11
Sobinco Penta-lock
High security multi-point locking system for sliding doors

Features and Benefits

- Handle operated multipoint locking system
- Optional safety pin prevents incorrect handle operation
- Can be operated by 'Softline' door handle or 'D' handle with turn lever
- Long or short faceplates available
- Flat stainless steel 16 or 20mm faceplates
- "U" stainless steel 20 or 24mm faceplates
- Pivoting night hook and 0, 2 or 4 mushroom head bolts
- Euro profile cylinder lock
- Non-corroding materials
- Optional top and bottom shootbolt for security
- Stainless steel night hooks to prevent "lifting-up"

Technical Details - Sobinco Catalogue
Section G.10
Slot Ventilators

- Fitted onto the window sash or frame or mounted on an overhead section
- Metal or plastic models
- Canopies and grilles give protection against ingress of rain and insects
- Marked with equivalent area figure achieved with standard vent and canopy/grille combination

Trimvent ventilators
- Deflect the incoming air in all directions
- Ventilator opening cannot be obstructed by a reveal
- The first Trimvents were fitted approximately thirty years ago

Trimvent Select ventilators
- As Trimvent products but with the added unique feature of an adjustable tilting T-bar
- Allows building occupant to control both the direction and the amount of incoming air
- Trimvent Select ventilators are part of the Select Suite of products, the first matching window handle and trickle ventilator range.

Trimvent Select Xtra ventilators
- As Trimvent Select range, with less tilt but considerably improved equivalent area
- Slot sizes as standard, however products approximately 60% more efficient for air flow

Placing a Slot ventilator order
Consult our Aluminium department for details when placing a slot ventilator order. Please ensure both an internal ventilator and an external grille or canopy are ordered for each particular window.

Some Titon ventilators are available in vent and canopy packs, full details on request.

Glazed-in Ventilators

- Easy to glaze-in, can be treated as an extension of the glass
- Can be cut to length and assembled by the customer or supplied made to measure
- Integral canopy for protection against ingress of rain and insects
- Marked with equivalent area figure per metre

Placing a Glazed-in ventilator order
Consult our Aluminium department for details when placing a slot ventilator order. As every made to measure glazed-in ventilator is produced specifically for each order, please quote the following information when placing an order:
- The overall vent length
- The glass thickness
- Plastic or aluminium canopy
- Finish (inner and outer)
- Equivalent area or free area required
- Quantity

To calculate the overall vent length see diagram:

The 20mm dimensions are always constant, therefore the body length is always 40mm shorter than the overall length. Please make any allowances for fittings beads, gaskets etc., or for manufacturing tolerances.

An exact glass reduction dimension is not given for each product. Consideration must be given to the glazing method.

For glazed-in ventilators in bar length, please contact us for ordering details.
Ventilators Section

Ventilation Section

- Slot / Glazed-in Ventilators: 58
- Contents: 59
- Sobinco Silentbloc: 60
- Sobinco Swing Up: 61
- Sobinco Isobloc Variant: 62
- Maxiglaze: 63
- Trimvent Select Xtra S13: 64
- Trimvent 4000 Hi Lift: 65
- Trimvent Sleeve: 66
- SF Ventilator: 67
- Trimvent SM: 68
- Gas Regulations Ventilator: 69
- Secure Ventilator: 70
- Sobinco Louvre Grilles: 71
Sobinco Silentbloc
Purpose made acoustic (sound attenuating) glazed-in ventilator

Features and Benefits

- Two versions available depending on acoustic requirement
- Made to measure
- Thermally broken
- Suitable for fitting over the glass, above a transom or over the top of the window
- Suitable for various glass thicknesses
- Special colours available on request
- Dual colour option
- Cord or rod operation option
- Facia detachable for cleaning

Technical Details - Sobinco Catalogue Section L.17

Performance

(Full test details available on request)

Equivalent Area (EA) (mm²)
Silentbloc 3 - 12500 per metre
Silentbloc 5 - 14000 per metre

Free Area (mm²)
Silentbloc 3 - 20000 per metre
Silentbloc 5 - 20000 per metre

Air Leakage (m³/hr @ 50Pa)
Silentbloc 3 - 2.65 @ 507mm overall length
Silentbloc 5 - 1.21 @ 507mm overall length

Acoustic Dn,e,w (+/-)
Silentbloc 3 - vent open 40, vent closed 49
(1000mm overall length)
Silentbloc 5 - vent open 43, vent closed 52
(1000mm overall length)
Sobinco Swing Up
Slim profile glazed-in ventilator

Features and Benefits

- Above or below (22mm only) glass options
- Free Area (mm²) 17000 per metre, Equivalent Area (mm²) 14000 per metre
- Minimal internal and external projection, suitable for sliding doors
- Made-to-measure
- Thermally improved
- Three intermediate open positions
- Easy-clean detachable fly screen
- Flush snib, cord, rod or detachable rod control options
- Dual colour option
- For 20, 22, 24 or 26mm glass units powder coated or anodised finishes

Technical Details - Sobinco Catalogue Section L.12
Sobinco Isobloc Variant
High airflow louvred glazed-in ventilator

Features and Benefits

- Above or below (26mm only) glass options
- Free Area (mm²) 28500 per metre, Equivalent Area (mm²) 13000 per metre
- Made-to-measure
- Thermally improved
- Exterior weather louvre
- Flush snib, cord, lever or remote control options
- Dual colour option
- Powder coated or anodised finishes

Technical Details - Sobinco Catalogue Section L.14
Maxiglaze
Energy efficient glazed-in ventilator

Features and Benefits

- Optimum air opening over length
- 2500mm² EA / 4600mm² Free Area at 270mm long, 5000mm² EA / 8900mm² Free Area at 470mm long
- Made-to-measure
- For 20, 24 or 28mm glass units
- Vent Injection Process (VIP); rapid sealing method to improve weather tightness
- Dual colour (inner and outer) finish available
- Thermally improved
- Channel gasket
- Gas Regulations version
- Cord and rod control options
- Patented design

Performance

(Full test details available on request)

Equivalent Area (EA) (mm²)
12000 per metre of extrusion

Free Area (mm²)
21476 per metre of extrusion

Air Leakage (m³/hr @ 50Pa)
500mm overall length - 0.98

Water Resistance (Pa)
600

Acoustic Dn,e,w (+/-)
500mm overall length -
vent open 29 (0;0)
vent closed 48 (-1;-3)
Trimvent® Select Xtra S13
Surface mounted plastic slot ventilator

Features and Benefits

- Revised design to improve performance and Regulations compliance
- Unique occupant controllable tilting T-bar
- Rounded unobtrusive shape
- Can be fitted on the sash, frame or overhead section
- For use over 13mm slot
- Based on successful Trimvent® principle
- Sculpted finger recess
- Matching screw covers
- Patented and registered design
- Remote control vent available
- Sleeve available to seal profiles

Performance

(Full test details available on request)
Equivalent Area - see below, Free Area - see below
Air Leakage (m³/hr @ 50Pa)
screw fix - 2.42
clip fix - 7.29
5000 version screw fix - 4.57
clip fix - 5.69
Water Resistance (Pa)
4400EA version - 600Pa
5000EA version - 450Pa
Acoustic Dₙₑ,w (+/-)
4400EA version - vent open 32 (0;1)
vent closed 41 (0;-1)
5000EA version - vent open 32 (-1;0)
vent closed 35 (0;0)

<table>
<thead>
<tr>
<th>Product</th>
<th>(L) Length</th>
<th>(W) Width</th>
<th>(P) Projection</th>
<th>EA (mm²)</th>
<th>Free Area (mm²)</th>
<th>Slot Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS13 4400EA Vent screw fix</td>
<td>411</td>
<td>18.5 - 30</td>
<td>20 - 27</td>
<td>4400</td>
<td>4285</td>
<td>173.5 20 173.5 13</td>
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<td>XC13 412 Canopy screw fix</td>
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<td>32.5</td>
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<td>5027</td>
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<tr>
<td>XS13 5000EA Vent screw fix</td>
<td>497</td>
<td>18.5 - 30</td>
<td>20 - 27</td>
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<td>5230</td>
<td>215 20 215 13</td>
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<tr>
<td>XC13 497 Canopy screw fix</td>
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<td>17</td>
<td>32.5</td>
<td>5000</td>
<td>6258</td>
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</table>

EA figures achieved when fitted to manufacturer’s recommendations. Tested in accordance with BS:EN 13141-1 (2004).
*Special preparation required for GS22 Grilles. See Titon fixing instructions for full details.
Trimvent® 4000 Hi Lift
Aluminium slot ventilator

Features and Benefits

• 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
• Vent supplied with screw covers, canopy features integral screw covers
• Special colours available on request
• Sleeve available to seal profiles
• Felted gasket for increased performance

Performance

(Full test details available on request)
Equivalent Area – See below.
Free Area – See below.
Air Leakage (m³/hr @ 50Pa)
0.99 (4000EA version)
Water Resistance (Pa)
600
Acoustic Dn,e,w (±/d-)
vent open 32 (0;1)
vent closed 43 (0;-1)

<table>
<thead>
<tr>
<th>Product</th>
<th>(L) Length</th>
<th>(W) Width</th>
<th>(P) Projection</th>
<th>EA (mm²)</th>
<th>Free Area (mm²)</th>
<th>Slot Detail</th>
</tr>
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<td>TV4000 HL 2200EA 255 Vent</td>
<td>255</td>
<td>17</td>
<td>28 - 38</td>
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<td>223 13</td>
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<td>HF 263 Canopy</td>
<td>263</td>
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<td>TV4000 HL 4000EA 400 Vent</td>
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<td>28 - 38</td>
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<td>36.5</td>
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</tr>
</tbody>
</table>

EA figures achieved when fitted to manufacturer’s recommendations. Tested in accordance with BS:EN 13141-1 (2004).
Trimvent® Sleeve
For use with Trimvent 4000 ventilator

Features and Benefits

- Connects internal trickle vent to external canopy
- Does not compromise Equivalent Area (EA) performance of the ventilator
- Helps prevent water and air ingress into profile
- Helps prevent thermal bridging and cooling of internal surfaces
SF Ventilator
Aluminium slot ventilator

Features and Benefits

- Compression closing action
- High performance gasket for increased performance
- For use over a 13mm slot
- Supplied made-to-measure or in bar length
- Available in bar length for cutting to size by customer (details on request)
- Special paint finishes available
- Integral screw covers
- Registered design

Performance

(Equivalent Area – See above. Free Area – See below.

Air Leakage (m³/hr @ 50Pa)
2.39 (3300EA version)

Water Resistance (Pa)
600

Acoustic Dn,e,w (+/-)
3300EA version - vent open 32 (-1;1) vent closed 41 (-1;-2)

Bar length codes on request.

EA figures achieved when fitted to manufacturer’s recommendations. Tested in accordance with BS:EN 13141-1 (2004).
Trimvent® SM
Aluminium slot ventilator

Features and Benefits

• Compression closing action
• For use over 10mm or 12mm slot, ideal for slim sections
• Flexible PVCu seal for improved weather tightness
• Supplied made to measure or in bar length
• Special paint finishes available
• Based on successful Trimvent® principle
• T-bar deflects air up and down
• Thermally insulated
• Matching screw covers
• Patented design

Performance

(Full test details available on request)
Equivalent Area – See above.
Free Area – See above.
Air Leakage (m³/hr @ 50Pa)
1.72 (2900EA version)
Water Resistance (Pa)
750
Acoustic Dn,e,w (+/-)
2900EA version -
vent open 33 (-1;0), vent closed 51 (-1;-4)

<table>
<thead>
<tr>
<th>Product</th>
<th>(L) Length</th>
<th>(W) Width</th>
<th>(P) Projection</th>
<th>EA (mm²)</th>
<th>Free Area (mm²)</th>
<th>Slot Detail</th>
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<tbody>
<tr>
<td>SM 1500EA 314 Vent (10mm slot)</td>
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<td>15.5 - 23</td>
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<tr>
<td>SM 302 Aluminium Canopy</td>
<td>302</td>
<td>17</td>
<td>15.5 - 23</td>
<td>2900</td>
<td>4006</td>
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<tr>
<td>SM 2900EA 457 Vent (12mm slot)</td>
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<td>15</td>
<td>15.5 - 23</td>
<td>3500</td>
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<td>SM 445 Aluminium Canopy</td>
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<td>SM 3500EA 544 Vent (10mm slot)</td>
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<td>SM 532 Aluminium Canopy</td>
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</tr>
</tbody>
</table>

Bar length codes on request.
EA figures achieved when fitted to manufacturer’s recommendations. Tested in accordance with BS:EN 13141-1 (2004).
Gas Regulations Ventilator
Permanent slot ventilator

Features and Benefits

- Complies with BS 5440 Part 2 & Building Regulations Part J
- For use mounted over a 13mm or 16mm slot
- Integral screw covers for concealed fixing
- Four sizes available; 4000mm² Free Area for use with 7 to 15kW open flue boilers, 7500mm² Free Area for 15 to 22kW open flue boilers, 5000mm² for use with certain flue-less appliances.
- Two ventilators supplied per pack (one fitted internally, one fitted externally)
- Supplied with warning label, screws and fixing instructions
- PLEASE REFER TO A QUALIFIED GAS PROFESSIONAL FOR ADVICE ON CORRECT SIZING OR USAGE OF GAS REGULATIONS VENTILATORS

Performance

(Full test details available on request)
Free Area – See above.

<table>
<thead>
<tr>
<th>Product</th>
<th>(L) Length</th>
<th>(W) Width</th>
<th>(P) Projection</th>
<th>EA (mm²)</th>
<th>Free Area (mm²)</th>
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Orientation of ventilator varies according to slot width
Secure Ventilator
High security and ligature tamper resistant ventilator

Features and Benefits

- Ideal for secure locations, such as prisons, police stations or hospitals
- Designed to meet Home Office security specifications
- Minimises opportunity for self-harm
- Very strong and tamper resistant
- Stainless steel internal perforated grille
- Optional external perforated grille for ground floor/accessible areas
- Can be colour finished externally where grille is not fitted to match window colour

Performance

(Full test details available on request)

Free Area (mm²)
9227 per metre

Equivalent Area
- Single Mesh - 11588mm² per metre
- Twin Mesh - 9389mm² per metre

With added 4mm spacer
- Single Mesh - 16358mm² per metre
- Twin Mesh - 12453mm² per metre
Aluminium louvre grilles

- Powder coated or anodised finishes.

Technical Details - Sobinco Catalogue Section L.18
To ensure Titon products continue to work effectively, it is important to ensure they are installed correctly and that they are well maintained throughout their lifecycle. Failure to do so can invalidate your product warranty.

For many products it is sufficient to clean them using only a damp cloth and mild domestic detergent. Abrasive or corrosive cleaners should not be used.

Hinges and locking devices should be lubricated after cleaning with a light machine oil or grease with an acid free lubricant such as petroleum jelly.

Powered ventilation products require regular servicing by a qualified engineer.

For specific details of how to care for your Titon product, visit the Titon website using the link on each product page within this catalogue, under the 'more information' section. The link takes you to a dedicated page for the product. The downloads section on that page contains instructions for installing, operating or maintaining each product.

Each product must be installed, used and maintained according to our written instructions (or those of our suppliers) or, if we have not produced such instructions, according to normal good working practices.

It is the customers’ responsibility to ensure product suitability in any application.

For more information, visit the Titon website using the link on each product page within this catalogue, under the 'more information' section.
Further Information

If you require more details on Titon’s products and services please go to www.titon.co.uk. The Titon website is full of comprehensive information on the complete Titon range. Any recent product specification changes will appear on the site and a subscription service is available to automatically inform you of updates.

For regular news and advice on Part F (England & Wales) go to www.partf.co.uk

For details on Titon Part F Ventilation CPD Seminars go to www.partf.co.uk/cpd

To subscribe to News Updates on domestic ventilation email subscribe@partf.co.uk

For details on the Code for Sustainable Homes rating scheme for sustainability of new dwellings, go to www.planningportal.gov.uk/codeforsustainablehomes

For further information on SAP Appendix Q, how buildings are assessed for energy performance and a list of applicable products, go to www.sap-appendixq.org.uk

For details on energy efficiency go to the Energy Savings Trust (EST) www.energysavingtrust.org.uk


For Scottish Technical Standards go to www.sbsa.gov.uk

The trade association for ventilation in housing is the Residential Ventilation Association (RVA), part of the Heating Ventilating & Air Conditioning Manufacturers Association, go to www.feta.co.uk/rva

The trade association for the fenestration industry, the Glass & Glazing Federation (GGF), can be found at www.ggf.co.uk

The trade association for aluminium in building, the Council for Aluminium in Building (CAB), can be found at www.c-a-b.org.uk

The trade association for timber windows, the British Woodworking Federation (BWF), can be found at www.bwf.org.uk

The trade association for the plastics industry, the British Plastics Federation (BPF), can be found at www.bpf.co.uk

Note: All website addresses correct at time of going to press.