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About Titon

Titon is a long established company specialising in ventilation. It was founded in 1972 by John Anderson, its current Deputy Chairman, and is based in Colchester, Essex. It floated on the London Stock Exchange in 1988 as Titon Holdings Plc. Titon employs over 200 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 trickle ventilator to window handles, locking systems and hinge systems, as well as powered ventilation products such as 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.

Concentrating 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 focus is the importance of indoor air quality in the home. To this end the company is a comprehensive resource of information on ventilation 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 – Window & Door Hardware and Ventilation Systems. These divisions have their own dedicated sales teams which cover the UK. They are supported from 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 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.



Quality/Testing/ Guarantees

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. As a company, Titon endeavours to handle and deliver its products in a manner that is not detrimental to the environment, the health and safety of its staff and customers, or the general public (both in 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 ISO 9001 Certification and the Standard 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 mutually beneficial supplier relationships.

In 2007, Titon celebrated the recognition of its green credentials following the award of its ISO 14001 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.



Sales & 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 technical background to assist in application problems and offer 'hands-on' advice.

At Colchester, dedicated sales and technical offices supporting each division 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.

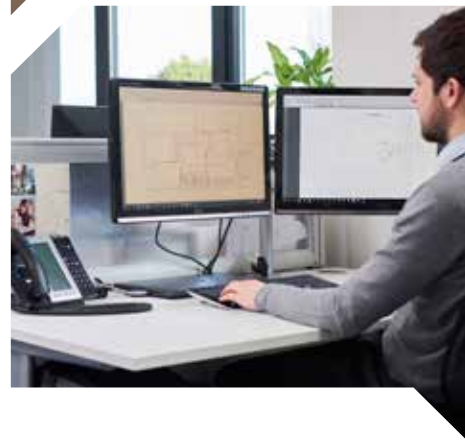
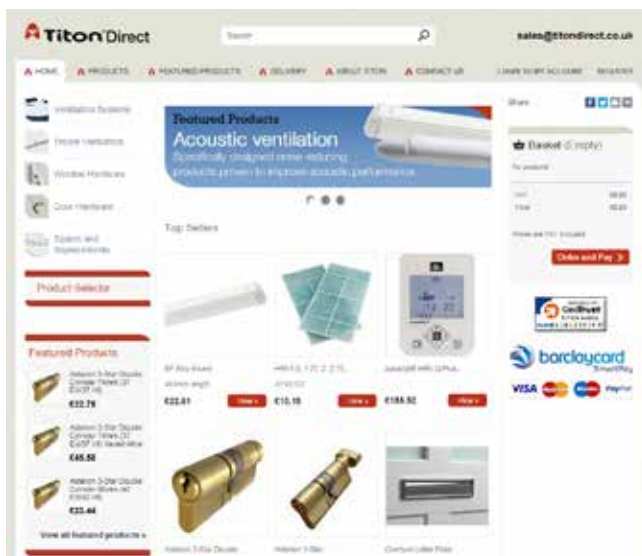
Orders can be placed by emailing the sales office, or online at www.titondirect.co.uk.

Regional sales and specification managers can be contacted to arrange an appointment, either on site or on premises, which allows for more productive discussions.

Titon prides itself on the regulatory and standards knowledge, and can visit to disseminate this information in the structured and unbiased form of CPD presentations.

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 simple via the Titon website or www.partf.co.uk.

Titon: The knowledge behind the products.





The truth revealed

AREA 24 is Titon's extensive hi-tech product development laboratory. Its primary function is the testing and launching of hardware products to achieve PAS 24 security levels on timber, PVCu and composite aluminium windows and doors.

SAFE AND SECURE

Fully compliant

Approved Document Q – Security – Dwellings (2015) stipulates all accessible windows and doors installed in new properties in England must meet certain requirements to resist unauthorised access, in accordance with PAS 24.

Meeting the needs of PAS 24

Many of Titon's hardware products can assist windows and doors in meeting the criteria of PAS 24, as long as they have been designed and manufactured to applicable levels.

FIND OUT MORE

Visit the website www.titonarea24.co.uk to try out the various security hardware combinations available – and discover which products can be grouped together to achieve PAS 24 status.

PASS THE TEST

Setting new standards

No matter the door or window type, security testing remains paramount. That's why Titon's expert AREA 24 hardware development facility runs regular durability and indicative testing to help fabricators achieve full PAS 24 certification.

Police approved

In addition, a number of Titon products are now Secured By Design certified, further highlighting their crime prevention capabilities.



Security Hardware

Security has become an extremely important issue for the specifiers and fabricators of windows. The strength of windows and their ability to resist intrusion has improved over recent years, with the introduction of more stringent standards and better performing products.

Many products in the Titon range have enhanced security versions, and when fitted to a suitably manufactured window can significantly increase performance and ultimately give the building occupant peace of mind.

Enhanced security fittings are available for commercial as well as domestic applications.

A typical domestic side hung casement window fitted with security products would feature the following:

Titon Espagnolette locking handles ▶

Improved window security compared to a Cockspur handle using a wedge. Self latching closure and key locking also ensure proper closure.

High security tilt and turn sets are available; please phone for further details.



◀ Securistyle Defender Friction Hinge with Vector Excluder

With metal end caps to resist 'jemmying'.



Overture E Handle - Right Handed



Titon Trickle Ventilators ▲

To give background ventilation without compromising security. A night vent position on the window is not secure.

Maco Shootbolt Espagnolette ▼

For shootbolt locking at the top and bottom as well as mushroom locking on the side of the sash.



Interlocking shootbolt and mushroom keeps

The Need For Ventilation

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

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



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 Codes and Technical Standards in the US, as well as other countries, are being regularly updated, but the emphasis continues towards more whole building ventilation solutions.

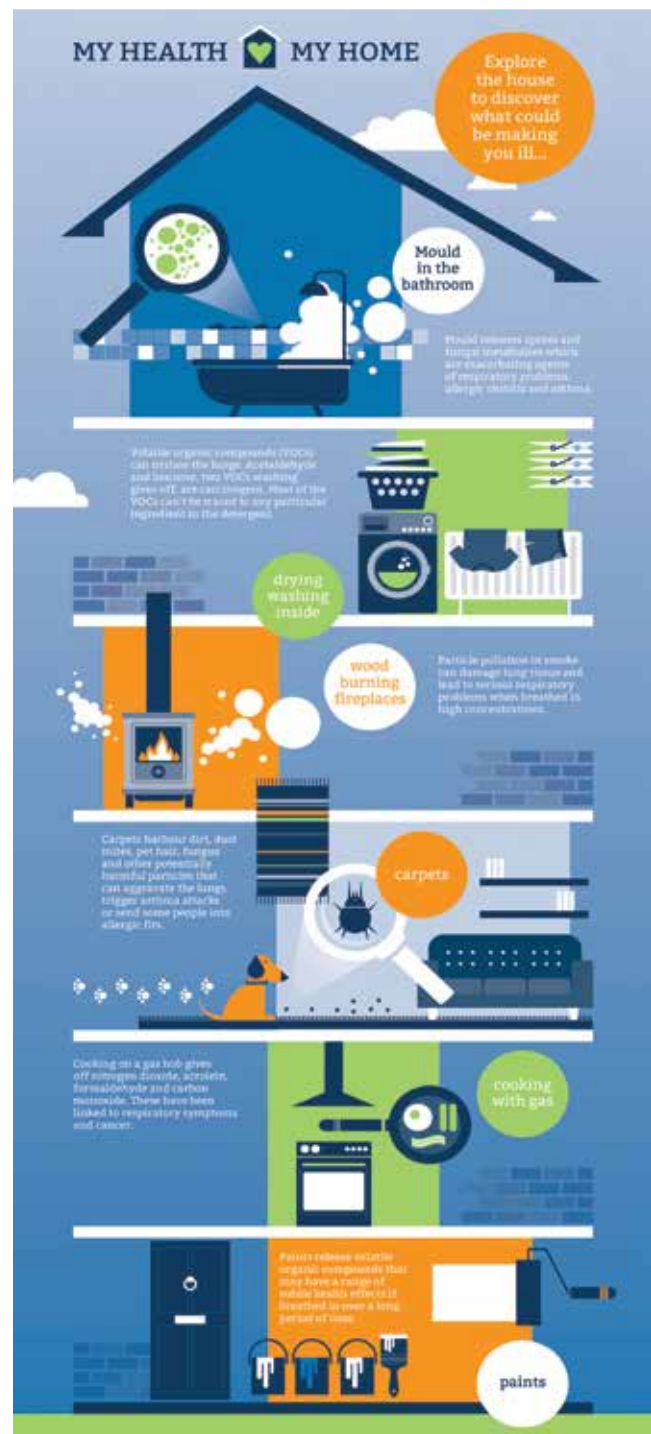
For domestic situations there are more involved requirements which take into account the total ventilation levels throughout the dwelling.

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 Codes and Technical Standards.

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.

Titon is supporting BEAMA's 'My Health My Home' initiative, which is publicising the issues surrounding poor indoor air quality in the UK.

The campaign, which commenced in October 2014, has highlighted how effective ventilation can improve indoor air quality and reduce the risk of Toxic Home Syndrome. For further information visit, www.myhealthmyhome.com.



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. 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.



Window & Door Hardware for PVCu, Aluminium or Timber



Key

Titon products are designed to be used on specific window materials. Each product page specifies which window materials are suitable for that product along with a description and list of features and benefits.

The technical information on each page is separated by the following headings:

Manufactured from

A summary of the main materials used in the manufacture of the product. Full product material specifications are available on request.

Recommended screws

The most suitable screw type and sizes are specified, although equivalents can be used.

Standards

A summary of the standards any particular product performs to or has been designed to meet.

Performance

The most pertinent test result/compliance is shown. Full test reports are available on request.

Finishes

Standard product finishes are specified. Non standard finishes are available for some products. Please phone for details.

Size/Capacity

The maximum size or capacity a product is designed for.

More information

Further information on all of our products is available from the Titon website (www.titon.com).

Slot Ventilators



Trimvent® Select Xtra S13 Ventilator

- 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
- Used successfully for the last forty years

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 airflow

Slot dimensions

Slot sizes shown in the 'Details' tables are for round ended slots. Fully detailed scale slot diagrams and dimensions for square ended slots available on request.

Placing a slot ventilator order

All product codes are listed in the 'Details' table on each product page and should be quoted when ordering. 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 are available on request.

Glazed-in Ventilators



Maxiglaze Ventilator (inside)

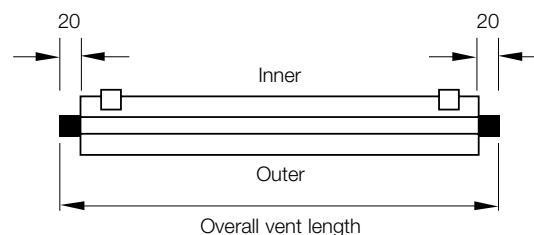
- Easy to glaze-in, can be treated as an extension of the glass
- Can be cut to length and assembled by the customer or supplied made to measure
- Integral canopy for protection against ingress of rain and insects
- Marked with equivalent area figure per metre

Placing a glazed-in ventilator order

All made to measure ventilator product codes are listed in the 'Details' table on each product page. 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:

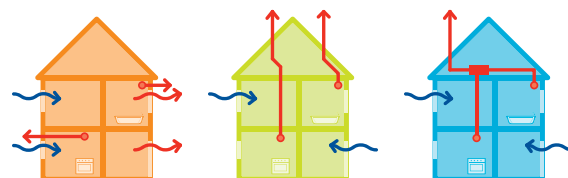


The 20mm dimensions are always constant, Therefore the body length is always 40mm shorter than the overall length. Please make any allowances for fittings beads, gaskets etc, or for manufacturing tolerances.

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



Ventilators

Trimvent® Select S13	18
Trimvent® Select Xtra S13	20
Trimvent® Select Xtra S16	22
Trimvent® Select Xtra R16	24
Trimvent® Select E18	26
Trykvent	28
SF Xtra Vent	30
SF Xtra Sound Attenuator Vent	32
Trimvent® 90 Hi Lift	34
Trimvent® 4000 Hi Lift	36
Trimvent® SM	38
Gas Regulations Ventilator	40
Maxiglaze	42
Variglaze	44
Vent-Trex	46
Other Ventilators	48

Amendments to the product range are made on ongoing basis to meet changing market demands. For the most up to date information, please go to www.titon.com.

Trimvent® Select S13

Surface mounted slot ventilator



Trimvent® Select S13 Ventilator

Suitable for:

PVCu



ALUMINIUM

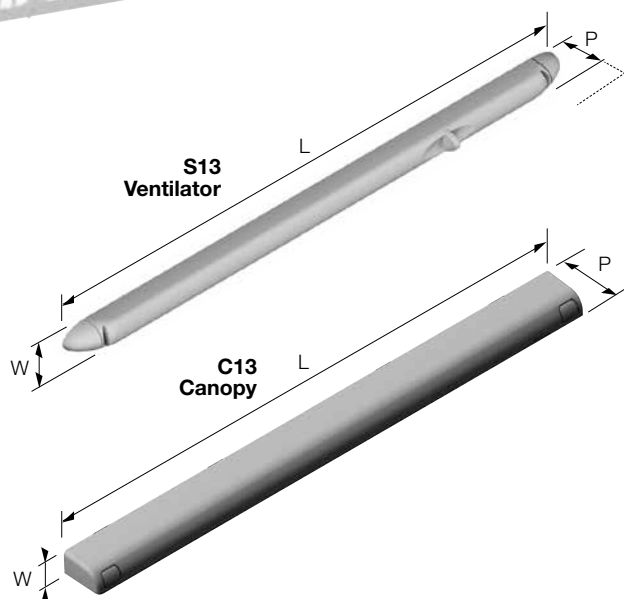


TIMBER



Trimvent Select S13 is a surface mounted plastic slot ventilator that fits over a 13mm slot in a window. It provides an Equivalent Area (EA) of 1700mm² or 2700mm² and can be fitted with a C13 canopy or GS13 grille.

The S13 is ideal for refurbishment situations using any window material and is available in a variety of colours. Trimvent Select ventilators have been specified and fitted on millions of windows throughout the UK and mainland Europe over the last 20 years.



Trimvent® Select C13 Canopy

Features and Benefits

- Deflects air up or down, or both
- 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
- Screw fix or clip fix versions (GS13 clip fix only)
- Patented and registered design
- Available in vent and canopy packs
- Remote control vent available
- Wide range of colours and wood grain finishes available
- When specified correctly complies with Building Regulations



Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	EA (mm²)	Free Area (mm²)	Airflow (m³/hr@10Pa)	Slot Detail / Free Area of Slot (mm²)
S13 1700EA vent screw fix	TS1131750	265	18.5	20 - 26	1700	2212	15.38	<div><div>223</div><div>2862</div><div>13</div></div>
C13 267 canopy screw fix	TS2132020	267	17	24	1700	2351		
S13 1700EA vent & C13 canopy screw fix pack	TS4131720				1700	2212	15.38	
S13 1700EA vent clip fix	TS1131751	265	18.5	20 - 26	1700	2212	24.77	
C13 267 canopy clip fix	TS2132021	267	17	24	1700	2351		
S13 1700EA vent & C13 canopy clip fix pack	TS4131721				1700	2212	24.77	
S13 1700EA remote control	TS6131750	265	18.5	32.5*	1700	2212		
S13 2700EA vent screw fix	TS1132750	411	18.5	20 - 26	2700	4045	26.61	<div><div>173.5</div><div>20</div><div>173.5</div><div>4438</div><div>13</div></div>
C13 412 canopy screw fix	TS2134020	412	17	24	2700	4278		
S13 2700EA vent & C13 canopy screw fix pack	TS4132720				2700	4045	26.61	
S13 2700EA vent clip fix	TS1132751	411	18.5	20 - 26	2700	4045	24.77	
C13 412 canopy clip fix	TS2134021	412	17	24	2700	4278		
S13 2700EA vent & C13 canopy clip fix pack	TS4132721				2700	4045	26.18	
GS13 4000 grille (2 off)	TS3134050	192	17	14	2700	4143		
S13 2700EA remote control	TS6132750	411	18.5	32.5*	2700	4045		

EA figures above and marked on vents are achieved when fitted to manufacturer's recommendations.

Tested in accordance with BS:EN 13141-1 (2004). See Titon fixing instructions for full details.

This product does feature some protrusion into the slot. If the recommended slot size has been cut then the protrusion will not affect fitting or claimed performance. Please contact us if you are using an existing slot which is different to that shown. Using a product without locators could affect the stability of the product in certain extreme conditions.

Manufactured from

Vent – PBTP (UV Stable) & POM, Canopy – PVCu

Recommended screws

C13 – 3.5mm (No.6) Pan Head or equivalent

S13 – No.7 or No.8 countersunk heads



Through sash

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow, air leakage and weather tightness)

Acoustic performance tested in accordance with BS EN ISO20140-10:1992, BS EN ISO140-10:1991 and single figures to BS EN ISO717-1:1991

Performance

(Full test details available on request)

Equivalent Area – see above

Free Area – see above

Airflow – (m³/hr @ 10Pa)

Air Leakage (m³/hr @ 50Pa)

1700EA version (screw fix) – 1.61

2700EA version (screw fix) – 2.61

Water Resistance (Pa) – 1700EA and 2700EA – 600 Pa

Acoustic D_{n,e,w} (+/-) 2700EA version – vent open 33 (-1;0), vent closed 45 (-1,-2)

Finishes

Suffix product code with:

-392 (white), -315 (brown), -496 (bright white), -662 (toffee)

Other colour options available. Please contact sales for details.

More information

export@titon.com / 01206 713801

Trimvent® Select Xtra S13

Surface mounted slot ventilator



Trimvent® Select Xtra S13 Ventilator

Suitable for:

PVCu



ALUMINIUM



TIMBER

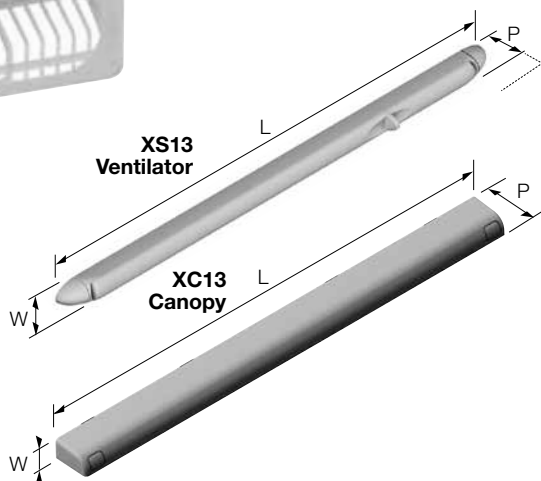


Trimvent Select Xtra S13 is a surface mounted plastic slot ventilator that fits over a 13mm slot in a window and provides an Equivalent Area (EA) of 4400mm² or 5000mm². It can be fitted with an XC13 canopy or GS22 grille.

The XS13 is ideal for both new build and refurbishment situations using any window material, and is available in a variety of colours.

The Xtra design improves the Trimvent Select range to offer increased ventilation. It gives optimum airflow (and therefore EA) utilising existing Trimvent Select slot sizes and vent lengths, making them 60% more efficient than previous models. It has been specifically developed for recent revisions to Part F of the Building Regulations for Ventilation (England & Wales), is optimised for use with the Scottish Technical Standards and to improve performance for requirements throughout the UK and Europe.

Trimvent Select ventilators have been specified and fitted on millions of windows throughout the UK and mainland Europe over the last 20 years.

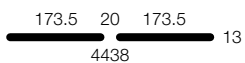

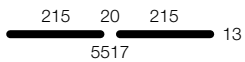

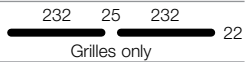


Trimvent® Select Xtra XC13 Canopy

Features and Benefits

- **Upgraded 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**
- **Screw fix or clip fix versions**
- **Patented and registered design**
- **Available in vent and canopy packs**
- **Wide range of colours and wood grain finishes available**
- **When specified correctly complies with Building Regulations**



Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	EA (mm ²)	Free Area (mm ²)	Airflow (m ³ /hr@10Pa)	Slot Detail / Free Area of Slot (mm ²)
XS13 4400EA vent screw fix	TS1134470	411	18.5 - 30	20 - 27	4400	4285	41.39	
XC13 412 canopy screw fix	TS2134040	411	18	32.5	4400	5027		
XS13 & XC13 4400EA screw fix pack	TS4134470							
XS13 4000EA vent clip fix	TS1134071	411	18.5 - 30	20 - 27	4000	4149	39.18	
XC13 412 canopy clip fix	TS2134041	411	18	32.5	4000	4809		
XS13 & XC13 4000EA clip fix pack	TS4134071							
XS13 5000EA vent screw fix	TS1135070	497	18.5 - 30	20 - 27	5000	5230	51.68	
XC13 497 canopy screw fix	TS2135040	497	18	32.5	5000	6258		
XS13 & XC13 5000EA screw fix pack	TS4135070							
XS13 5000EA vent clip fix	TS1135071	497	18.5 - 30	20 - 27	5000	5096	50.37	
XC13 497 canopy clip fix	TS2135041	497	18	32.5	5000	6055		
XS13 & XC13 5000EA clip fix pack	TS4135071							
GS22 241 pair grilles*	TS3224050	241 x 2	27	1.5	5000	10022	58.89	
Sleeve	Please phone for details						Please phone for details	

EA figures above and marked on vents are achieved when fitted to manufacturer's recommendations. Tested in accordance with BS:EN 13141-1 (2004). *Typically used for overhead sections.

This product does feature some protrusion into the slot. If the recommended slot size has been cut then the protrusion will not affect fitting or claimed performance. Please contact us if you are using an existing slot which is different to that shown. Using a product without locators could affect the stability of the product in certain extreme conditions.

Manufactured from

Vent – PBTP (UV Stable) & POM, Canopy – PVCu

Recommended screws

3.5mm (No.6) Pan Head or equivalent



Through sash

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow, air leakage and weather tightness)

Acoustic performance tested in accordance with BS EN ISO20140-10:1992, BS EN ISO140-10:1991 and single figures to BS EN ISO717-1:1991

Performance

(Full test details available on request)

Equivalent Area – see above

Free Area – see above

Airflow – (m³/hr @ 10Pa)

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 D_{n,e,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)

Finishes

Suffix product code with:

-392 (white), -315 (brown), -496 (bright white), -662 (toffee)

Other colour options available. Please contact sales for details.

More information

export@titon.com / 01206 713801

Trimvent® Select Xtra S16

Surface mounted slot ventilator



Trimvent® Select Xtra S16 Ventilator

Suitable for:

PVCu



ALUMINIUM



TIMBER



Trimvent Select Xtra S16 is a surface mounted plastic slot ventilator that fits over a 16mm slot in a window and provides an Equivalent Area (EA) of 4600mm² when fitted with the XC16 canopy.

The XS16 is ideal for both new build and refurbishment situations using any window material, and is available in a variety of colours.

The Xtra design improves the Trimvent Select range to offer increased ventilation. It gives optimum airflow (and therefore EA) utilising existing Trimvent Select slot sizes and vent lengths, making them 60% more efficient than previous models. It has been specifically developed for recent revisions to Part F of the Building Regulations for Ventilation (England & Wales), is optimised for use with the Scottish Technical Standards and to improve performance for requirements throughout the UK and Europe.

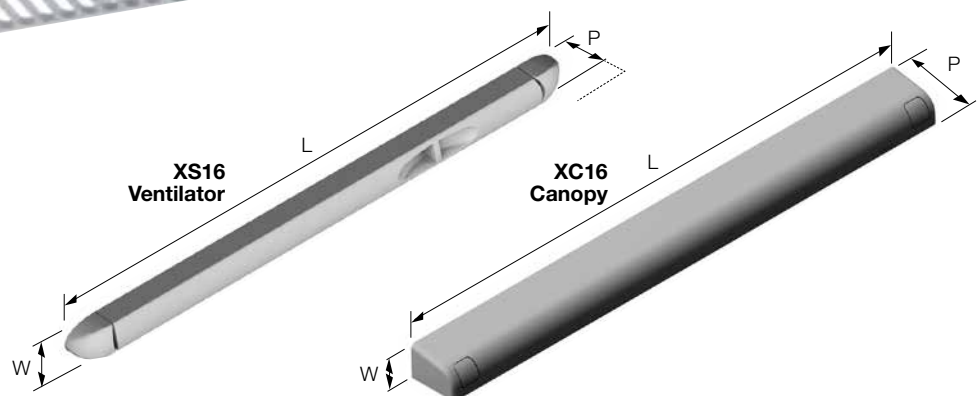
Trimvent Select ventilators have been specified and fitted on millions of windows throughout the UK and mainland Europe over the last 20 years.

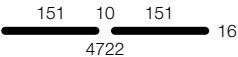


Trimvent® Select Xtra C16 Canopy

Features and Benefits

- **Upated design to improve performance and Regulations compliance**
- **Unique occupant controllable tilting T-bar**
- **Rounded unobtrusive shape**
- **For use over 16mm slot**
- **Based on successful Trimvent® principle**
- **Sculpted finger recess**
- **Patented and registered design**
- **Available in vent and canopy packs**
- **When specified correctly complies with Building Regulations**



Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	EA (mm ²)	Free Area (mm ²)	Airflow (m ³ /hr@10Pa)	Slot Detail / Free Area of Slot (mm ²)
XS16 4600EA vent	TS1164670	366	21 - 31	16 - 28	4600	4511	44.53	
XC16 364 canopy	TS2164040	364	22	32.5	4600	4990		
XS16 & XC16 4600EA pack	TS4164670							

EA figures above and marked on vents are achieved when fitted to manufacturer's recommendations.

Tested in accordance with BS:EN 13141-1 (2004).

This product does feature some protrusion into the slot. If the recommended slot size has been cut then the protrusion will not affect fitting or claimed performance. Please contact us if you are using an existing slot which is different to that shown. Using a product without locators could affect the stability of the product in certain extreme conditions.

Manufactured from

Vent – PBTP (UV Stable) & POM, Canopy – PVCu

Recommended screws

3.5mm (No.6) Pan Head or equivalent



Through head

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow, air leakage and weather tightness)

Acoustic performance tested in accordance with BS EN ISO20140-10:1992, BS EN ISO140-10:1991 and single figures to BS EN ISO717-1:1991

Performance

(Full test details available on request)

Equivalent Area – See above

Free Area – See above

Airflow – (m³/hr @ 10Pa)

Air Leakage (m³/hr @ 50Pa) – 2.12

Water Resistance (Pa) – 600

Acoustic D_{n,e,w} (+/-) – vent open 31 (0;0), vent closed 41 (-1;-2)

Finishes

Suffix product code with:

-392 (white), -315 (brown), -496 (bright white), -662 (toffee)

Other colour options available. Please contact sales for details.

More information

export@titon.com / 01206 713801

Trimvent® Select Xtra R16

Recessed slot ventilator



Trimvent® Select Xtra R16 Ventilator

Suitable for:

TIMBER



Trimvent Select Xtra R16 is a fully recessed plastic slot ventilator that fits over a 16mm slot in a window and provides an Equivalent Area (EA) of 4600mm² when fitted with the XHD16 grille or XC16 canopy. The XR16 is ideal for both new build or refurbished situations using timber windows and is available in a variety of colours.

The Xtra design improves the Trimvent Select range to offer increased ventilation. It gives optimum airflow (and therefore Equivalent Area) utilising existing Trimvent Select slot sizes and vent lengths, making them 60% more efficient than previous models.

It has been specifically developed for recent revisions to Part F of the Building Regulations for Ventilation (England & Wales), and to improve performance for requirements throughout the UK and Europe.

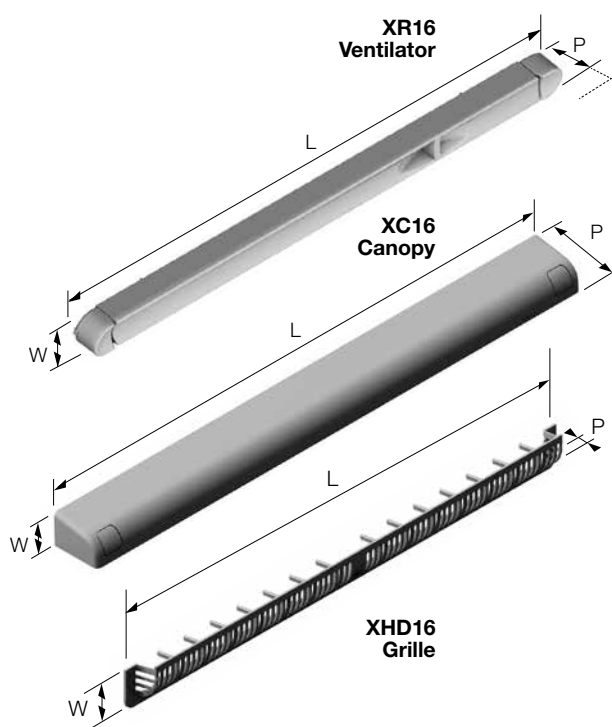
Trimvent Select ventilators have been specified and fitted on millions of windows throughout the UK and mainland Europe over the last twenty years.



Trimvent® Select Xtra XHD16 Grille

Features and Benefits

- Upgraded design to improve performance and Regulations compliance
- Unique occupant controllable tilting T-bar
- No projection (when closed) for ease of window stacking
- Recesses over 16mm slot
- Based on successful Trimvent® principle
- Sculpted finger recess
- Patented and registered design
- Supplied with paint protection adhesive cover
- When specified correctly complies with Building Regulations



Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	EA (mm ²)	Free Area (mm ²)	Airflow (m ³ /hr@10Pa)	Slot Detail / Free Area of Slot (mm ²)
XR16 4600EA vent	TS1164630	351	21 - 32	0 - 18.5	4600	4530	44.46	151 10 151 16*
XC16 364 canopy	TS2164040	364	22	32.5	4600	4990		4722
XR16 4600EA vent	TS1164630	351	21 - 32	0 - 18.5	4600	4530	42.69	151 10 151 16*
XHD16 grille **	TS3164030	358	26	13.5	4600	5345		

* Slot detail should also include a 352 x 22 x 16 recess for the ventilator.

** Special preparation required for XHD16 Grille. See Titon Fixing Instructions for full details.

EA figures above and marked on vents are achieved when fitted to manufacturer's recommendations. Tested in accordance with BS:EN 13141-1 (2004).

Manufactured from

Vent – PBTP (UV Stable) & POM, XHD16 – PP,
Canopy – PVCu

Recommended screws

3.5mm (No.6) Pan Head or equivalent

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow, air leakage and weather tightness)

Acoustic performance tested in accordance with BS EN ISO20140-10:1992, BS EN ISO140-10:1991 and single figures to BS EN ISO717-1:1991

Performance

(Full test details available on request)

Equivalent Area – See above

Free Area – See above

Airflow – (m³/hr @ 10Pa)

Air Leakage (m³/hr @ 50Pa) – 6.04 (with XHD16),
2.43 (with XC16)

Water Resistance (Pa) – Vent & Canopy 600, Vent & Grille 300

Acoustic D_{n,e,w} (+/-) – vent open 31 (0;1), vent closed 40 (-1;-1)

Finishes

Suffix product code with: -392 (white), -315 (brown)

Other colour options available. Please contact sales for details.

More information

export@titon.com / 01206 713801



Through Frame (with XC16)



Through Frame (with XHD16)

Trimvent® Select E18

Recessed clip-fix slot ventilator



Trimvent® Select E18 Ventilator

Suitable for:

PVCu



Trimvent Select E18 is a semi recessed clip fix plastic slot ventilator that fits into an 18mm slot in a window overhead section or cavity closer and provides an Equivalent Area (EA) of 4200mm² when fitted with a pair of GS18 grilles.

The E18 is ideal for both new build and refurbishment situations using PVCu windows and is available in a variety of colours.

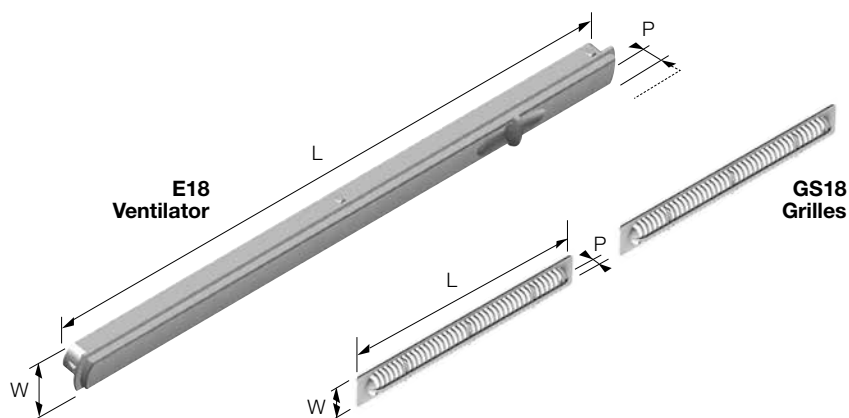
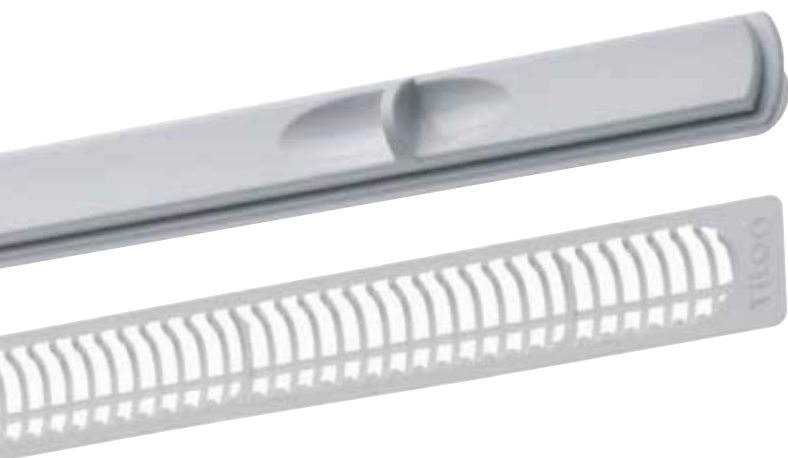
Trimvent Select ventilators have been specified and fitted on millions of windows throughout the UK and mainland Europe over the last 15 years.



Trimvent® Select GS18 Grilles

Features and Benefits

- Revised design to improve performance and Regulations compliance
- Unique occupant controllable tilting T-bar
- Deflects air up or down, or both
- Ideal for overhead sections
- Push to fit, no tools or screws required
- Minimal projection (when closed) for ease of window stacking during transit
- Flange covers slot edges
- Clips into an 18mm slot
- For use with GS18 grilles
- Based on successful Trimvent® principle
- Sculpted finger recess
- Patented and registered design
- When specified correctly complies with Building Regulations



Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	EA (mm ²)	Free Area (mm ²)	Airflow (m ³ /hr@10Pa)	Slot Detail / Free Area of Slot (mm ²)
E18 4200EA vent	TS1134212	372	24	13 - 23	4200	4247	38.61	366 18
GS18 210 pair grilles	TS3184050	210 X 2	25	1.5	4200	4608		194 20 194 18

NOTE: Vent can only be used on sections with wall thickness of 2-2.5mm. Slot tolerances of ± 0.5 mm are required.

EA figures above and marked on vents are achieved when fitted to manufacturer's recommendations. Tested in accordance with BS:EN 13141-1 (2004).

This product does feature some protrusion into the slot. If the recommended slot size has been cut then the protrusion will not affect fitting or claimed performance.

Manufactured from

Vent – PBTP (UV Stable) & POM, GS18 – PP

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow, air leakage and weather tightness)

Acoustic performance tested in accordance with BS EN ISO20140-10:1992, BS EN ISO140-10:1991 and single figures to BS EN ISO717-1:1991

Performance

(Full test details available on request)

Equivalent Area – See above

Free Area – See above

Airflow – (m³/hr @ 10Pa)

Air Leakage (m³/hr @ 50Pa) – 2.31 (with GS18)

Acoustic D_{n,e,w} (+/-) – vent open 31 (-1;-1), vent closed 43 (-1;-2)

Finishes

Suffix product code with:

-392 (white), -315 (brown)

More information

export@titon.com / 01206 713801



Overhead Section

Trykvent

Recessed clip-fix slot ventilator



Trykvent Ventilator

Suitable for:

TIMBER



The Trykvent is an unobtrusive semi-recessed plastic ventilator that fits over a 16mm slot in a timber window.

The Trykvent is specifically designed for high performance timber windows and is ideal for both new build or refurbished situations. It is available in white, brown or grey.

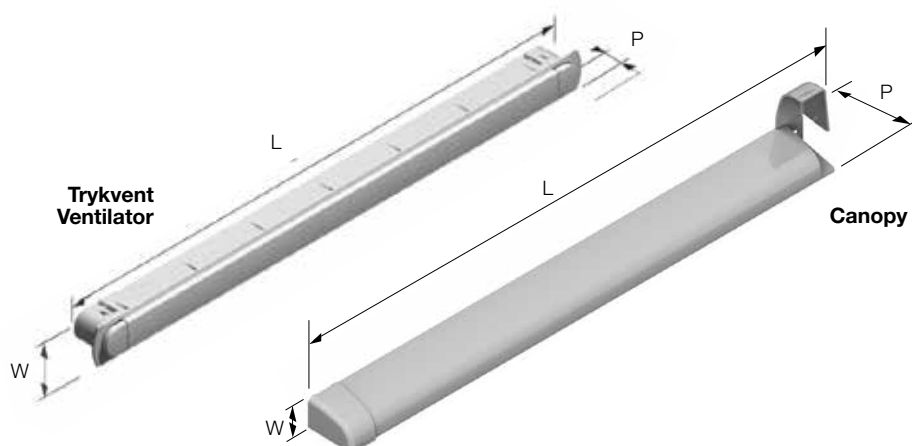
When fitted correctly, the Trykvent seals extremely well when closed, while offering a higher EA than most other similar vents available.



HF Canopy

Features and Benefits

- Specifically designed for high performance timber windows
- Press to open and close principle
- High airtightness in closed position
- Thermal insulation all plastic with gas injection moulded T-bar
- Gasket seal between T-bar and channel
- Unique auto drop down opening
- High quality, robust operating mechanism
- Unobtrusive low profile design
- Latching mechanism in closed position
- High airflow or 4300mm² free area
- GF Polyester



Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	EA (mm ²)	Free Area (mm ²)	Airflow (m ³ /hr@10Pa)	Slot Detail / Free Area of Slot (mm ²)
Trykvent 389	TA7701	389	27	6.2 - 19	4300	4800	28.04	151 10 151
HF 441 Canopy	TA6054	441	24	36.5		6763		16*
Trykvent 283	TA7702	283	27	6.2 - 19	3000	3616	39.83	226
HF 303 Canopy	TA6057	303	24	36.5		4458		16**

* Slot detail should also include a 386 x 23 x 22 recess for the ventilator.

** Slot detail should also include a 280 x 23 x 22 recess for the ventilator.

Manufactured from

Ventilator: Glass filled PBT & POM

Canopy: Aluminium 6063 HIT T6 & PP (UV Stable)

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow, air leakage and weather tightness)

Performance

(Full test details available on request)

Equivalent Area – See above

Free Area – See above

Airflow – (m³/hr @ 10Pa)

Air Leakage – 0.40m³/hr @ 50 Pascal

Water Resistance – No test data available

Finish

Suffix product code with:

-392 (white), -315 (brown), -464 (grey) matches

RAL9006

More information

export@titon.com / 01206 713801

SF Xtra Vent

Surface mounted ventilator



SF Xtra Ventilator

Suitable for:

PVCu



ALUMINIUM



TIMBER



The SF Xtra is a high performance, surface mounted aluminium slot ventilator. It is the shortest vent available to provide 5000mm² EA. This product is equally suitable for domestic and non-domestic applications.

There are two width variants, one for use over a 13mm slot, the other for a 16mm slot. The SF Xtra is also available in made-to-measure sizes or bar length for self-assembly.

All versions can be used with either a plastic or aluminium canopy.



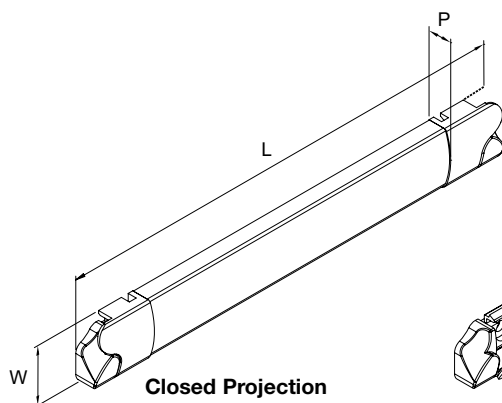
SF Canopy

Features and Benefits

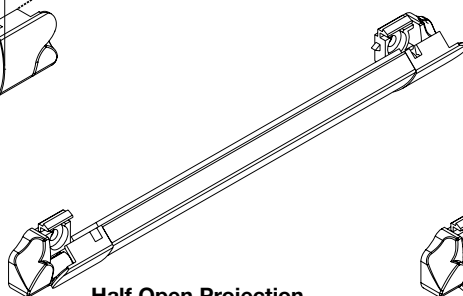
- Shortest vent available to provide 5000mm² EA*
- Simple construction to aid painting, self-assembly & fitting
- High performance gasket combined with compression closing action improves sealing in adverse conditions
- For use over a 13 or 16mm slot
- Ideal for retrofit applications, over a slot or series of holes**
- Ideal for use in non-domestic installations
- Available in bar length for cutting to size by customer (details on request)
- Bar length product available in mill finish for customer painting
- Special paint finishes available
- When specified correctly complies with Building Regulations
- Can be mounted to deflect air upwards or downwards

* This vent is designed for use where no protection from weathering required or for ventilation of a habitable room through another room or conservatory.

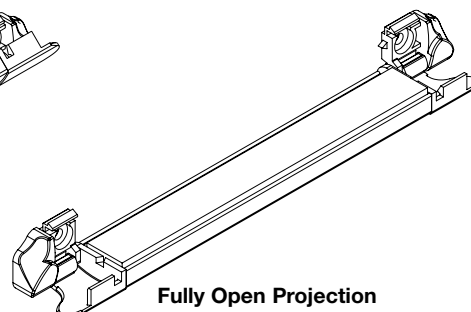
** This may not achieve the marked Equivalent Area.



Closed Projection
SFX13: 10mm
SFX16: 10mm



Half Open Projection
SFX13: 20.5mm
SFX16: 23mm



Fully Open Projection
SFX13: 24mm
SFX16: 27.5mm

Product 13mm Slot Width	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	EA (mm ²)	Free Area (mm ²)	Airflow (m ³ /hr@10Pa)	Slot Detail / Free Area of Slot (mm ²)
SFX 13 2500EA Vent 294mm	TA7831	294	23	10 - 24	2500	2863	22.94	223
SF 318 Canopy	TA5010	318	23	27		3775		13
SFX 13 2500EA Vent 294mm	TA7831	294	23	10 - 24	2500	2863	26.36	223
XC13 Canopy (plastic)	TS2132040	270	18	32.5		3003		13
SFX 13 2500EA Vent 253mm	TA7837	253	23	10 - 24	2500	2485	24.07	194
SFX 205 Plastic Clip Fix canopy	TA7821	203	18	36.5		2442		13
SFX 13 4000EA Vent 434mm	TA7833	434	23	10 - 24	4000	4438	41.31	173.5 20 173.5
SF418 Canopy	TA5005	418	23	27		5423		13
SFX 13 4000EA Vent 434mm	TA7833	434	23	10 - 24	4000	4438	41.31	173.5 20 173.5
XC13 412 Canopy (plastic)	TS2134040	411	18	32.5		5027		13
SFX 13 4400EA Vent 420mm	TA7839	420	23	10 - 24	4400	4568	42.89	178.5 10 178.5
XC13 412 Canopy (plastic)	TS2134040	411	18	32.5		5027		13
SFX 13 4400EA Vent 420mm	TA7839	420	23	10 - 24	4400	4568	41.66	178.5 10 178.5
XC13 412 Plastic Clip Fix Canopy	TS2134041	411	18	32.5		4809		13
SFX 13 5000EA Vent* 400mm	TA7832	400	23	10 - 24	5000	4218	47.22	165 10 165
SFX 13 5000EA Vent 465mm	TA7838	465	23	10 - 24		4737		13
HF441 Canopy	TA6054	441	24	36.5	5000	6763	46.13	185 10 185
SFX 13 5000EA Vent 465mm	TA7838	465	23	10 - 24		5340		13
SFX418 Plastic Clip Fix Canopy	TA7841	418	18	36.5	5500	5714	49.93	198 10 198
SFX 13 5500/6000EA Vent	TA7834	529	23	10 - 24		5517		13
XC13 497 Canopy Screw Fix	TS2135040	497	18	32.5	6000	6258	58.17	215 13 215
SFX 13 5500/6000EA Vent	TA7834	529	23	10 - 24		5517		13
HF529 Canopy	TA6058	529	24	36.5		6601		230 10 230

*This vent is designed for use where no protection from weathering required or for ventilation of a habitable room through another room or conservatory.

Product 16mm Slot Width	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	EA (mm ²)	Free Area (mm ²)	Airflow (m ³ /hr@10Pa)	Slot Detail / Free Area of Slot (mm ²)
SFX 16 4000EA Vent 374mm	TA7861	374	27	10 - 27.5	4000	4722	43.48	151 10 151
HF404 Canopy	TA6059	404	24	6.5		6145		16
SFX 16 4000EA Vent 374mm	TA7861	374	27	10 - 27.5	4000	4722	42.71	151 10 151
XC16 364 Canopy (plastic)	TS2164040	364	22	32.5		4990		16
SFX 16 6000EA Vent 419mm	TA7862	419	27	10 - 27.5	6000	5500	52.91	360
HF404 Canopy	TA6059	404	24	36.5		6145		16

Manufactured from

Aluminium 6063A T6, component parts POM

Recommended screws

3.5mm (No.6) Round Head or equivalent

Standards

Tested in accordance with BS EN 13141-1:2004

Finishes

Suffix product code with: -020 (white), -023 (brown)

Brown vents fitted with black end caps

Other colours available contact sales for details

Performance

(Full details available on request)

Equivalent Area – See above

Free Area – See above

Airflow – (m³/hr @ 10Pa)

Air Leakage (m³/hr @ 50Pa) – 0.11m³/hr @ 50Pa (SFX 4000EA version)

Water Resistance (Pa) – 750Pa

Acoustic D_{n,e,w}

- 13mm slot version – vent open 32 (-1;0), vent closed 52 (-2;-4)

- 16mm slot version – vent open 32 (0;0), vent closed 55 (-1;-4)

** For optimum performance the ventilator should be installed on a flat surface free from defects

More information

export@titon.com / 01206 713801

SF Xtra Sound Attenuator Vent

Surface mounted noise reducing ventilator



SF Xtra Sound Attenuator internal

Suitable for:

PVCu



ALUMINIUM



TIMBER



The SF Xtra Sound Attenuator ventilator is a slot ventilator which provides high levels of sound attenuation compared to similar 'acoustic' products, in a compact size.

The SF Xtra Sound Attenuator can be purchased in a number of combinations based on different sizes of inner (ventilator) and outer (canopy). Combinations can be chosen depending on the sound attenuation requirement and can achieve up to $D_{n,e,w} (C;Ctr) = 44 (-2;-3)$ dB when the vent is open.

The product is a cost effective method of reducing incoming noise in situations where conventional slot ventilators are unable to assist with acoustic issues.

The SF Xtra Sound Attenuator comes fitted with a Titon SF Xtra Ventilator and/or SF Canopy (HF Canopy for 5000EA version) and fits the 2500mm² EA version over the Trimvent Select, Trimvent 4000 Hi Lift or Select Xtra slot size.



SF Canopy version



SF Sound Attenuator Canopy external

Features and Benefits

- **Cost effective sound attenuating ventilator**
- **Independently tested by Sound Research Laboratories in accordance with BSEN20140-10:1992, ISO140-10:1991**
- **2500mm² EA and 5000mm² EA versions available**
- **Vent sizes available: V25, V50, V75 and canopy sizes: C25, C50 and C75**
- **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**
- **Supplied with SF Xtra Ventilator and/or SF Canopy fitted (HF Canopy for 5000EA version)**
- **High performance gasket combined with compression closing action improves sealing in adverse conditions**
- **Can be mounted to deflect air upwards or downwards**
- **For use over a 13mm slot**
- **Special paint finishes available**

Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	Free Area (mm ²)	Airflow (m ³ /hr@10Pa)	Slot Detail
SF Xtra 2500EA Vent only	TA5220	425	28	10-24	4207		
SF 418 Canopy only	TA5005	418	23	27	5114		
SF Xtra Sound Attenuator 2500EA Vent 25mm	TA5221	464	35	37-51	3470	26.66	
SF Sound Attenuator 2500EA Canopy 25mm	TA5202	464	35	54	3470		
SF Xtra Sound Attenuator 2500EA Vent 50mm	TA5223	464	35	62-76	3470	23.93	
SF Sound Attenuator 2500EA Canopy 50mm	TA5204	464	35	79	3470		
SF Xtra Sound Attenuator 2500EA Vent 75mm	TA5225	464	35	87-101	3470	24.6	
SF Sound Attenuator 2500EA Canopy 75mm	TA5206	464	35	104	3470		
SF Xtra Sound Attenuator 5000EA Vent 75mm	TA5235	523	35	87-101	5517	47.14	
HF Sound Attenuator 5000EA Canopy 75mm	TA5236	523	35	113.5	5517		

173.5 20 173.5 13

215 8 215 13

Acoustic Ratings

Product	Open	Closed	EA (mm ²)
V75 + C75 (2500EA)	$D_{n,e,w}(C;Ctr) = 44 (-2;-3)$ dB	$D_{n,e,w}(C;Ctr) = 55 (-1;-5)$ dB	2500
V75 + C50 (2500EA)	$D_{n,e,w}(C;Ctr) = 42 (-1;-2)$ dB	$D_{n,e,w}(C;Ctr) = 55 (-2;-5)$ dB	2500
V75 + Standard Canopy (2500EA)	$D_{n,e,w}(C;Ctr) = 40 (-1;-2)$ dB	$D_{n,e,w}(C;Ctr) = 53 (-1;-4)$ dB	2500
V50 + C25 (2500EA)	$D_{n,e,w}(C;Ctr) = 39 (-1;-2)$ dB	$D_{n,e,w}(C;Ctr) = 55 (-2;-5)$ dB	2500
V50 + Standard Canopy (2500EA)	$D_{n,e,w}(C;Ctr) = 38 (-1;-2)$ dB	$D_{n,e,w}(C;Ctr) = 55 (-2;-5)$ dB	2500
V25 + C25 (2500EA)	$D_{n,e,w}(C;Ctr) = 36 (0;-2)$ dB	$D_{n,e,w}(C;Ctr) = 55 (-1;-5)$ dB	2500
V25 + Standard Canopy (2500EA)	$D_{n,e,w}(C;Ctr) = 35 (0;-1)$ dB	$D_{n,e,w}(C;Ctr) = 54 (-1;-4)$ dB	2500
Standard Vent + C25 (2500EA)	$D_{n,e,w}(C;Ctr) = 35 (0;-1)$ dB	$D_{n,e,w}(C;Ctr) = 55 (1;-5)$ dB	2500
Standard Vent + Standard SF Canopy (2500EA)	$D_{n,e,w}(C;Ctr) = 32 (1;0)$ dB	$D_{n,e,w}(C;Ctr) = 52 (-2;-4)$ dB	2500
V75 + C75 (Hi Spec Foam) (5000EA)	$D_{n,e,w}(C;Ctr) = 40 (-2;-3)$ dB	$D_{n,e,w}(C;Ctr) = 51 (-1;-4)$ dB	5000

Manufactured from

Aluminium 6063A T6, component parts POM

Recommended screws

4mm (No.8) Round Head or equivalent

When fitting to PVCu screw must go through two walls or into reinforcement

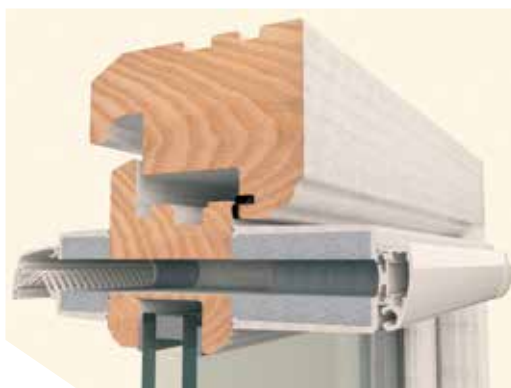
Standards

Tested in accordance with BS EN 13141-1:2004 (airflow air leakage and weather tightness)

Finishes

Suffix product code with -20 (white)

Other colour options available. Please contact sales for details.



Through sash

Performance

(Full details available on request)

Equivalent Area – See above

Free Area – See above

Airflow – (m³/hr @ 10Pa)

Air Leakage – 0.11m³/hr @ 50Pa (Vent and Canopy only)

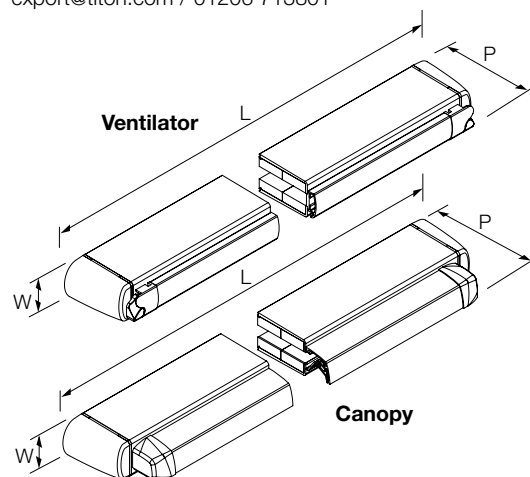
Water Resistance (Pa) – 750Pa

Acoustic $D_{n,e,w}$ – see above

NB: For optimum performance the ventilator should be installed on a flat surface free from defects, and sealant should be used along all edges to achieve the desired acoustic result.

More information

export@titon.com / 01206 713801



Trimvent® 90 Hi Lift

High performance aluminium slot ventilator



Trimvent® 90 Hi Lift Ventilator

Suitable for:

PVCu



ALUMINIUM



TIMBER



Trimvent 90 Hi Lift is a semi-recessed aluminium slot ventilator that fits over a 16mm slot in a window and provides an Equivalent Area (EA) of up to 8600mm² when fitted with the Hi Flow canopy. The TV90 Hi Lift is ideal for both new build or refurbished situations using any window material, and is also available in a variety of colours.

The Hi Lift design improves the Trimvent range to offer increased ventilation. It gives optimum airflow (and therefore EA) utilising existing Trimvent slot sizes and vent lengths, making them 60% more efficient than previous models.

It has been specifically developed for recent revisions to Part F of the Building Regulations for Ventilation (England & Wales), is optimised for use with the Scottish Technical Standards and to improve performance for requirements throughout the UK and Europe.

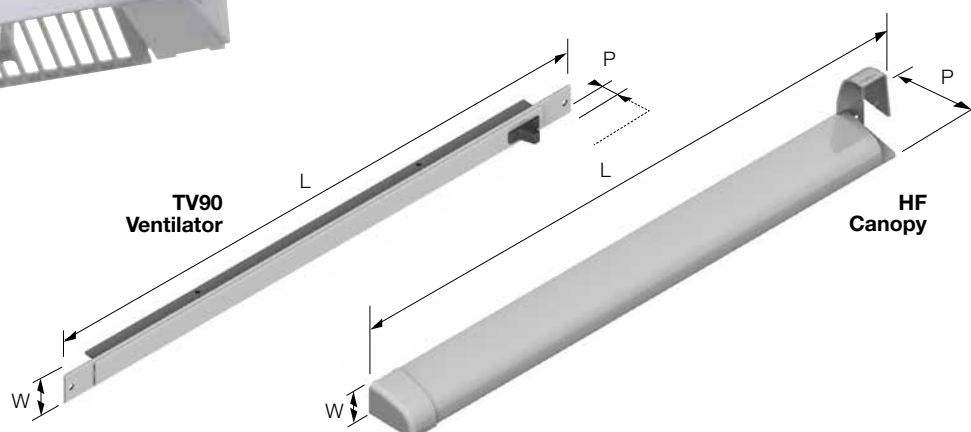
The Trimvent 90 range of ventilators has been specified and fitted on to millions of windows throughout the UK and mainland Europe over the last 35 years.

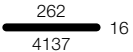
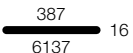
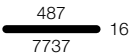
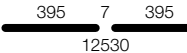


Trimvent® 90 Hi Flow Canopy

Features and Benefits

- Up-rated design to improve performance and Regulations compliance
- T-bar deflects air up and down
- Compression closing action
- For use on 16mm slot
- Based on successful Trimvent® principle
- Unique linkages ensure constant friction and smooth action
- Canopy features integral screw covers
- Special colours available on request
- Felted gasket for increased performance
- When specified correctly complies with Building Regulations



Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	EA (mm ²)	Free Area (mm ²)	Airflow (m ³ /hr@10Pa)	Slot Detail / Free Area of Slot (mm ²)
TV90 HL 2500EA 300 vent	TA634	300	22	17 - 27	2500	2649	25.02	 16
HF 303 canopy	TA6057	303	24	36.5		4458		4137
TV90 HL 4300EA 425 vent	TA631	425	22	17 - 27	4300	4184	39.32	 16
HF 441 canopy	TA6054	441	24	36.5		6763		6137
TV90 HL 5000EA 525 vent	TA635	525	22	17 - 27	5000	5308	49.89	 16
HF 529 canopy	TA6058	529	24	36.5		8233		7737
TV90 HL 8600EA 835 vent	TA633	835	22	17 - 27	8600	8368	78.61	 7
HF 844 canopy	TA6056	844	24	36.5		13493		12530

EA figures above and marked on vents are achieved when fitted to manufacturer's recommendations.

Tested in accordance with BS:EN 13141-1 (2004).

This product does feature some protrusion into the slot. If the recommended slot size has been cut then the protrusion will not affect fitting or claimed performance.

Manufactured from

Aluminium 6063 HIT T6, component parts PVCu, POM & PP (UV Stable)

Recommended screws

3.5mm (No.6) Round Head or equivalent

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow, air leakage and weather tightness)

Acoustic performance tested in accordance with BS EN ISO20140-10:1992, BS EN ISO140-10:1991 and single figures to BS EN ISO717-1:1991

Performance

(Full test details available on request)

Equivalent Area – See above

Free Area – See above

Airflow – (m³/hr @ 10Pa)

Air Leakage (m³/hr @ 50Pa) – 1.09 (4300EA version)

Water Resistance (Pa) – 600

Acoustic D_{n,e,w} (+/-) – vent open 31 (0;1), vent closed 42 (-1;-2)

Finishes

Suffix product code with:

-020 (white), -001 (SAA) (Canopy -026), -023 (brown)

Other colour options available. Please contact sales for details.

More information

export@titon.com / 01206 713801



Through sash

Trimvent® 4000 Hi Lift

High performance aluminium slot ventilator



Trimvent® 4000 Hi Lift Ventilator

Suitable for:

PVCu



ALUMINIUM



TIMBER



Trimvent 4000 Hi Lift is an aluminium slot ventilator that fits over a 13mm slot in a window and provides an Equivalent Area (EA) of up to 6000mm² when fitted with the Hi Flow canopy. The TV4000 Hi Lift is ideal for both new build or refurbished situations using any window material and is available in a variety of colours.

The Hi Lift design improves the Trimvent range to offer increased ventilation. It gives optimum airflow (and therefore EA) utilising existing Trimvent slot sizes and vent lengths, making them 60% more efficient than previous models.

It has been specifically developed for recent revisions to Part F of the Building Regulations for Ventilation (England & Wales), is optimised for use with the Scottish Technical Standards and to improve performance for requirements throughout the UK and Europe.

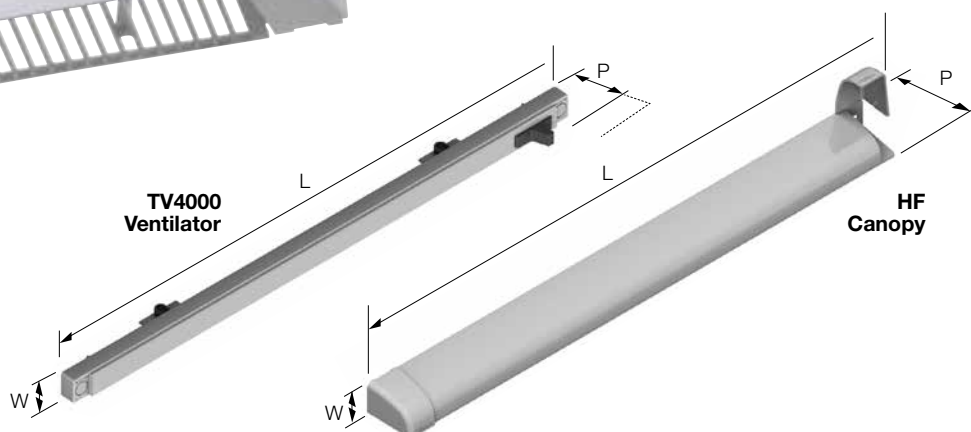
Trimvent 4000 ventilators have been specified and fitted on millions of windows throughout the UK and mainland Europe for 25 years.



Trimvent® 4000 Hi Flow Canopy

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
- Felted gasket for increased performance
- When specified correctly complies with Building Regulations



Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	EA (mm²)	Free Area (mm²)	Airflow (m³/hr@10Pa)	Slot Detail / Free Area of Slot (mm²)
TV4000 HL 2200EA 255 vent	TA4042	255	17	28 - 38	2200	2169	21.00	<div><div>223</div><div>13</div></div>
HF 263 canopy	TA6053	263	24	36.5		3790		2862
TV4000 HL 4000EA 400 vent	TA4041	400	17	28 - 38	4000	3989	36.84	<div><div>173.5</div><div>20</div><div>173.5</div><div>13</div></div>
HF 441 canopy	TA6054	441	24	36.5		6763		4438
TV4000 HL 6000EA 575 vent	TA4044	575	17	28 - 38	6000	5925	55.55	<div><div>173</div><div>12</div><div>173</div><div>12</div><div>173</div><div>13</div></div>
HF 582 canopy	TA6004	582	24	36.5		9118		6657
Sleeve	Please phone for details							Please phone for details

EA figures above and marked on vents are achieved when fitted to manufacturer's recommendations.

Tested in accordance with BS:EN 13141-1 (2004).

This product does feature some protrusion into the slot. If the recommended slot size has been cut then the protrusion will not affect fitting or claimed performance.

Manufactured from

Aluminium 6063 HIT T6, component parts POM & PP (UV Stable)

Recommended screws

3.5mm (No.6) Round Head or equivalent

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow, air leakage and weather tightness)

Acoustic performance tested in accordance with BS EN ISO20140-10:1992, BS EN ISO140-10:1991 and single figures to BS EN ISO717-1:1991

Performance

(Full test details available on request)

Equivalent Area – See above

Free Area – See above

Airflow – (m³/hr @ 10Pa)

Air Leakage (m³/hr @ 50Pa) – 0.99 (4000EA version)

Water Resistance (Pa) – 600

Acoustic D_{n,e,w} (+/-) – vent open 32 (0;1), vent closed 43 (0;-1)

Finishes

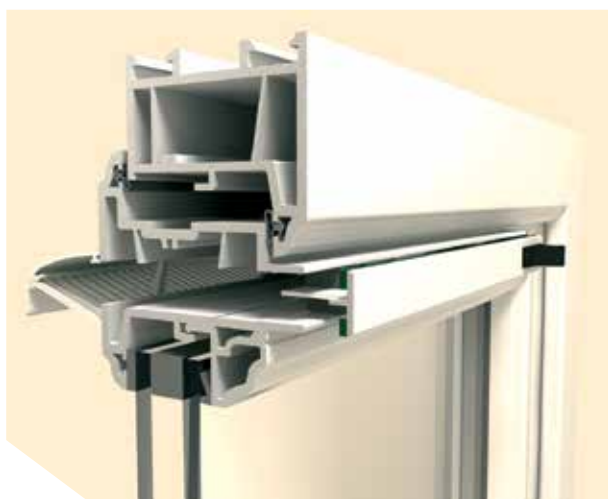
Suffix product code with:

-020 (white), -001 (SAA) (Canopy -026), -023 (brown)

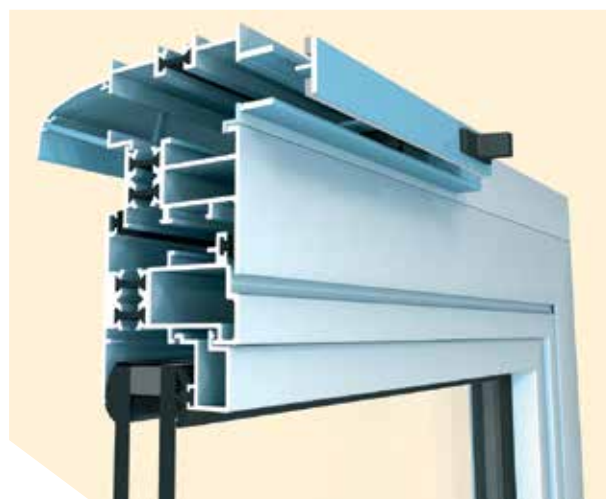
Other colour options available. Please contact sales for details.

More information

export@titon.com / 01206 713801



Through sash



Through add-on section

Trimvent® SM

Aluminium slot ventilator



Trimvent® SM Ventilator

Suitable for:

PVCu



ALUMINIUM



TIMBER



Trimvent SM vent is a surface mounted aluminium slot ventilator that fits over a 10mm or 12mm slot in a window and provides an Equivalent Area (EA) of up to 5000mm² when fitted with an SM canopy.

The Trimvent SM is available in made to measure sizes or in bar length in a variety of colours.

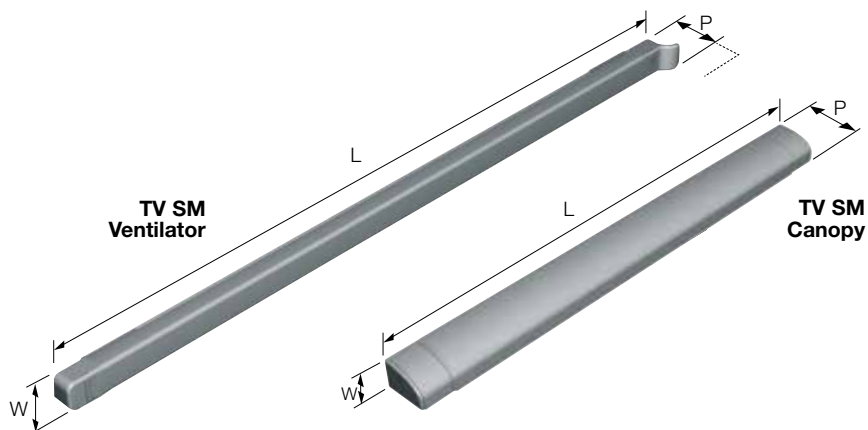


Trimvent® SM Canopy

Features and Benefits

- **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, over a slot or series of holes***
- **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**
- **When specified correctly complies with Building Regulations**

*This may not achieve the marked Equivalent Area



Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	EA (mm ²)	Free Area (mm ²)	Airflow (m ³ /hr@10Pa)	Slot Detail / Free Area of Slot (mm ²)
SM 1500EA 314 vent (10mm slot)	TA902	314	15	15.5 - 23	1500	2048	16.50	<div> <div>209</div> <div>2068</div> <div>10</div> </div>
SM 302 plastic canopy	TA906	302	17	24.5				
SM 302 aluminium canopy	TA906	302	17	24.5				
SM 1500EA pack	TA952							
SM 2900EA 457 vent (12mm slot)	TA903	457	15	15.5 - 23	2900	4006	28.62	<div> <div>169.5</div> <div>13</div> <div>169.5</div> <div>4246</div> <div>12</div> </div>
SM 445 plastic canopy	TA907	445	17	24.5				
SM 445 aluminium canopy	TA907	445	17	24.5				
SM 2900EA pack	TA953							
SM 3500EA 544 vent (10mm slot)	TA901	544	15	15.5 - 23	3500	4097	34.20	<div> <div>212</div> <div>15</div> <div>212</div> <div>4197</div> <div>10</div> </div>
SM 532 plastic canopy	TA905	532	17	24.5				
SM 532 aluminium canopy	TA905	532	17	24.5				
SM 3500EA pack	TA951							
SM 4000EA 635 vent (12mm slot)	TA909	635	15	15.5 - 23	4000	6027	36.93	<div> <div>170</div> <div>10</div> <div>170</div> <div>10</div> <div>170</div> <div>6027</div> <div>12</div> </div>
SM 588 aluminium canopy	TA912	588	17	24.5				
SM 5000EA 700 vent (12mm slot)	TA913	700	15	15.5 - 23	5000	6750	46.94	<div> <div>190</div> <div>12.5</div> <div>190</div> <div>12.5</div> <div>190</div> <div>6747</div> <div>12</div> </div>
SM 705 aluminium canopy	TA914	705	17	24.5				

Bar length codes on request.

EA figures above and marked on vents are achieved when fitted to manufacturer's recommendations.

Tested in accordance with BS:EN 13141-1 (2004).

Manufactured from

Vent – Aluminium 6063 HIT T6 & PVCu seal, canopy – Aluminium 6063 HIT T6, PP (UV Stable)

Recommended screws

3.5mm (No.6) Pan or Round Head or equivalent

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow, air leakage and weather tightness)

Acoustic performance tested in accordance with BS EN ISO20140-10:1992, BS EN ISO140-10:1991 and single figures to BS EN ISO717-1:1991

Performance

(Full test details available on request)

Equivalent Area – See above

Free Area – See above

Airflow – (m³/hr @ 10Pa)

Air Leakage (m³/hr @ 50Pa) – 1.72 (2900EA version)

Water Resistance (Pa) – 750

Acoustic D_{n,e,w} (+/-) – 2900EA version – vent open 33 (-1;0), vent closed 51 (-1;-4)

Finishes

Suffix product code with:

-020 (white), -023 (brown), -002 (black),

PVCu Canopy: -393 (white)

Other colours available contact sales for details

More information

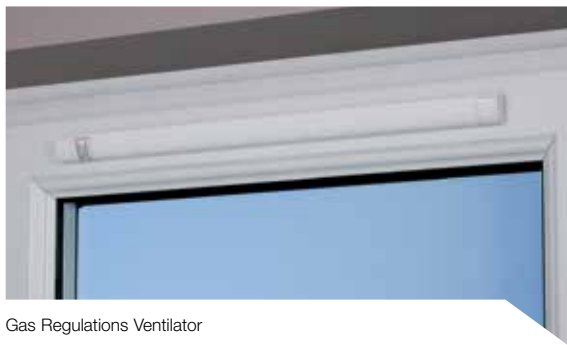
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Add-on section

Gas Regulations Ventilator

Permanent slot ventilator



Gas Regulations Ventilator

Suitable for:

PVCu



ALUMINIUM



TIMBER



The Gas Regulations vent is a surface mounted aluminium slot ventilator that fits over a 13mm or 16mm slot in a window.

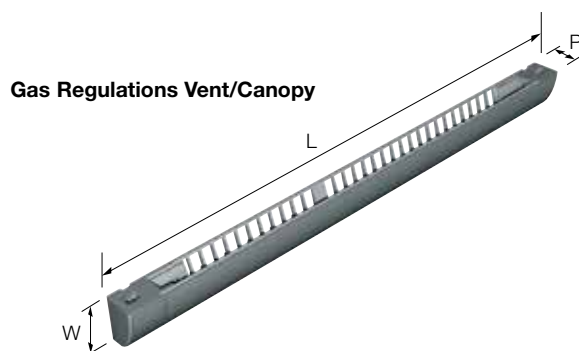
Gas Regulations ventilator can provide a Free Area of up to 10000mm² permanent ventilation when fitted with a Gas Regulations canopy. The Gas Regulations vent is available in white or brown paint.



Gas Regulations Canopy

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 7kW to 15kW open flue boilers, 7500mm² Free Area for 15 to 22kW open flue boilers, 5000mm² for use with certain flueless 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**



Gas Regulations Vent/Canopy

Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	EA (mm ²)	Free Area (mm ²)	Slot Detail / Free Area of Slot (mm ²)			
4000 Free Area GR ventilator pack	TA934	389	24	17	-	4000	160	10	160	13 or 16
5000 Free Area GR ventilator pack	TA937	475	24	17	-	5000	200	20	200	13
							165	20	165	16
7500 Free Area GR ventilator pack	TA938	675	24	17	-	7500	295	10	295	13
							240	20	240	16
10000 Free Area GR ventilator pack	TA939	787	24	17	-	10000	320	20	320	16

Orientation of ventilator varies according to slot width

Manufactured from

Aluminium 6063 HIT T6, component parts PP (UV Stable)

Recommended screws

3.5mm (No.6) Pan Head Self Tapping or equivalent

Standards

Designed to comply with Building Regulations (England & Wales) Approved Document J and BS 5440 Part 2:2000

Performance

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

Finishes

Suffix product code with:
-020 (white), -023 (brown)

More information

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Through sash

Maxiglaze

Energy efficient glazed-in ventilator



Maxiglaze Ventilator (inside)

Suitable for:

PVCu



ALUMINIUM



TIMBER*



Maxiglaze is an energy efficient glazed-in aluminium ventilator that provides an Equivalent Area (EA) of 12000mm² per metre of extrusion (equal to vent length minus 57mm).

Optimum performance over length requires fewer vents to be fitted to achieve total requirement.

The Maxiglaze is available in made to measure sizes or in bar length in a variety of colours.



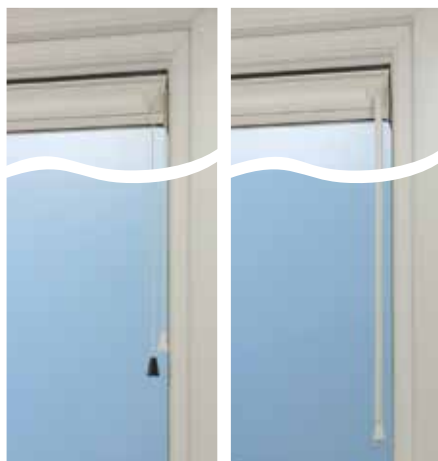
Maxiglaze Ventilator (outside)

Features and Benefits

- Optimum air opening over length
- 2500mm² EA / 4600mm² Free Area at 270mm long, 5000mm² EA / 8900mm² Free Area at 470mm long
- 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)
- Vent Injection Process (VIP); rapid sealing method to improve weather tightness
- Aluminium or (white) plastic canopy
- Dual colour (inner and outer) finish available
- Thermally improved (not mill finish version)
- Channel gasket
- Available in Gas Regulations version
- Cord and rod control versions
- Patented design
- When specified correctly complies with Building Regulations

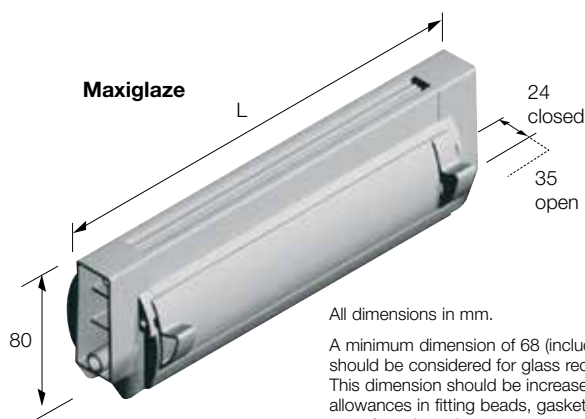


*Suitability on timber windows dependent on bead fitting method and sealing. Please phone for further details.



Cord operation

Rod operation



All dimensions in mm.

A minimum dimension of 68 (including gasket) should be considered for glass reduction. This dimension should be increased for any allowances in fitting beads, gaskets etc., or for manufacturing tolerances.

Manufactured from

Aluminium 6063 HIT T6, component parts PVCu, POM, PA6 & PP (UV Stable)

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow, air leakage and weather tightness)

Gas Regulations version designed to comply with Building Regulations (England & Wales) Approved Document J and BS 5440 Part 2:2000

Acoustic performance tested in accordance with BS EN ISO20140-10:1992, BS EN ISO140-10:1991 and single figures to BS EN ISO717-1:1991

Performance

(Full test details available on request)

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

Free Area (mm²) – 21476 per metre of extrusion*

(*extrusion length should be calculated as the overall length minus 57mm)

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

Water Resistance (Pa) – 600

Acoustic D_{n,e,w} (+/-) – 500mm overall length – vent open 29 (0;0), vent closed 48 (-1;-3)

Finishes

Suffix product code with:

-387 (white with PVCu canopy), -020 (white with white aluminium canopy), -475 (white with black aluminium canopy)

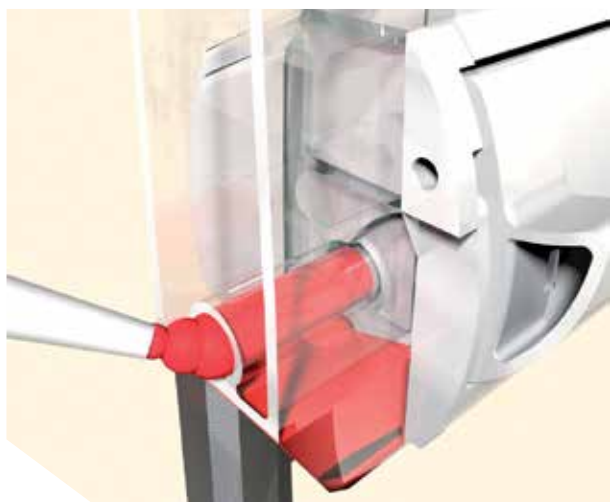
*This product cannot be supplied anodised

More information

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Product	Product Code	
	24mm Glass Thickness	28mm Glass Thickness
207-399	GV18401	GV18501
400-499	GV18402	GV18502
500-599	GV18403	GV18503
600-699	GV18404	GV18504
700-799	GV18405	GV18505
800-899	GV18406	GV18506
900-999	GV18407	GV18507
1000-1099	GV18408	GV18508
1100-1199	GV18409	GV18509
1200-1299	GV18410	GV18510
1300-1399	GV18411	GV18511
1400-1499	GV18412	GV18512
1500-1599	GV18413	GV18513
1600-1699	GV18314	GV18314
1700-1799	GV18315	GV18315
Cord control	TA18002/012 Black or TA18002/392 White	
Rod control 600mm rod pack	TA18003/012 Black or TA18003/392 White	
Rod control 1000mm rod pack	TA18004/012 Black or TA18004/392 White	

Vent supplied with unrestricted Equivalent Area over length. Product can be supplied with Equivalent Area limited to 2500 or 5000mm² EA figures marked on vents are achieved when fitted to manufacturer's recommendations. Tested in accordance with BS:EN 13141-1 (2004).



Vent injection process



Over glass

Variglaze

Slim thermally improved glazed-in ventilator



Variglaze Ventilator (inside)

Suitable for:

PVCu



ALUMINIUM



TIMBER*



Variglaze is a thermally improved glazed-in aluminium ventilator that provides an Equivalent Area (EA) of 5400mm² per metre of extrusion (equal to vent length minus 78mm).

Its slim size minimises impact on window sight size.

The Variglaze is available in made to measure sizes or in bar length in a variety of colours.



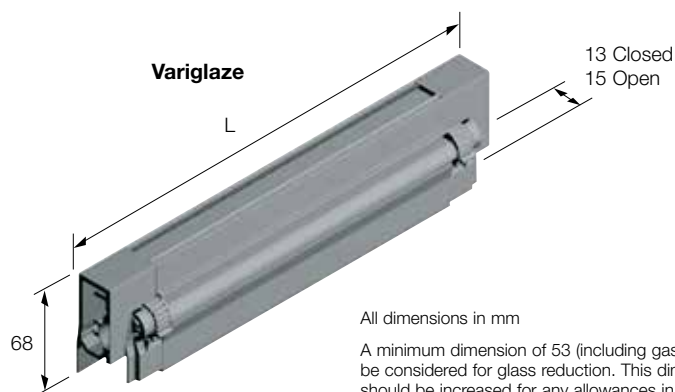
Variglaze Ventilator (outside)

Features and Benefits

- Slim size minimises impact on window sight size
- 2500mm² EA at 540mm long
5000mm² EA at 1005mm long
- Supplied made-to-measure or in bar length (pre painted only)
- Bar length for cutting to size by customer (pre painted only)
- Suitable for 20, 22, 24 or 28mm glass thicknesses
- Aluminium or white plastic canopy
- Dual hardness flap gasket improves weather tightness
- Minimal projection for inline patio doors
- Thermally improved
- Available in Gas Regulations version, complies with BS5440 Part 2
- Retrofit or fitted cord control unit
- When specified correctly complies with Building Regulations



*Suitability for timber windows dependent on bead fitting method and sealing. Please phone for further details.



All dimensions in mm

A minimum dimension of 53 (including gasket) should be considered for glass reduction. This dimension should be increased for any allowances in fitting beads, gaskets etc., or for manufacturing tolerances.

Product	Product Code			
	20mm Glass Thickness	22mm Glass Thickness	24mm Glass Thickness	28mm Glass Thickness
178-299	GV12301	GV12351	GV12401	GV12501
300-399	GV12302	GV12352	GV12402	GV12502
400-499	GV12303	GV12353	GV12403	GV12503
500-599	GV12304	GV12354	GV12404	GV12504
600-699	GV12305	GV12355	GV12405	GV12505
700-799	GV12306	GV12356	GV12406	GV12506
800-899	GV12307	GV12357	GV12407	GV12507
900-999	GV12308	GV12358	GV12408	GV12508
1000-1199	GV12309	GV12359	GV12409	GV12509
1200-1500	GV12310	GV12360	GV12410	GV12510

EA figures above and marked on vents are achieved when fitted to manufacturer's recommendations.
Tested in accordance with BS:EN 13141-1 (2004).

Manufactured from

Aluminium 6063 HIT T6, component parts PVCu, POM, PA6 & PP (UV Stable)

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow, air leakage and weather tightness)
Acoustic performance tested in accordance with BS EN ISO20140-10:1992, BS EN ISO140-10:1991 and single figures to BS EN ISO717-1:1991



Over glass

Performance

(Full test details available on request)
Equivalent Area (EA) (mm²) – 5400 per metre of extrusion*
Free Area (mm²) – 9650 per metre of extrusion*
(*extrusion length should be calculated as the overall length minus 78mm)
Air Leakage (m³/hr @ 50Pa) – 500mm overall length – 2.49
Water Resistance (Pa) – 300
Acoustic D_{n,e,w} (+/-) – 500mm overall length – vent closed 48 (-1;-1), vent open 33 (0;-2)

Finishes

Suffix product code with:
-387 (white with white PVCu canopy), -020 (white with white aluminium canopy), -475 (white with black aluminium canopy)

More information

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Vent-Trex

Before

Suitable for:

PVCu



ALUMINIUM



TIMBER



Vent-Trex is a unique combined overhead extract fan and trickle ventilator for kitchens and bathrooms that fits within the aperture on top of the window frame.

Vent-Trex is ideal for refurbishment situations where wall penetration is undesirable, as it does not damage the fabric of the building or where external aesthetics need to be preserved.

It provides a trickle ventilation performance Equivalent Area (EA) of 2500mm² minimum and extract ventilation rates to suit either kitchens or bathrooms.



After

Features and Benefits

- **Unique combined extract fan/trickle ventilator**
- **Suitable for all window types**
- **Integral with window, ideal for refurbishment situations**
- **Avoids damage or penetration of building fabric**
- **Easy to install**
- **Saves wall space**
- **Low installation costs compared to traditional extract ventilators**
- **Bathroom version – single speed (15 l/s)**
- **Kitchen version – two speed (60 l/s and 30 l/s)**
- **2500mm² EA minimum**
- **Low energy usage**
- **Easy to clean**
- **Easy to maintain**
- **IP24 rating**
- **Pull cord switch and power light (dependant on model)**
- **Humidistat option available (integral or remote)**
- **Available with remote PSU (SELV) option for bathrooms**
- **Continuous power or continuous running versions**
- **Variable speed version**
- **Suitable for use in conservation areas**
- **2-year guarantee**

Configurations

Hanging – pull cord and cable entry can be either on the left or right side (viewed from inside the property)

Flex entry to the unit can be either from the front or the end.

Optional Extras

Units can be supplied with or without external mesh.

Units can be supplied as permanent ventilators, i.e. no slide (Not available for cord control units).

Meanings

Remote PSU

To provide extra low voltage capability for use in bathrooms SELV.

Standard

Pull cord or ceiling switch must be pulled to switch unit on and to allow humidity sensing to operate.

Continuous Power

Pull cord or ceiling switch manually operates the fan, unit will always respond to humidity change.

Continuous Running

Fan will run at low speed continuously and increase to the higher speed on pulling the pull cord.

Cord Control

The unit has two pull cords one each side.
One to open the slide, one to close the slide.
Also switching the unit on & off.

Variable Speed

Variable boost speed – used to reduce fan boost speeds in conjunction with open flued appliances, to avoid fumes being pulled back into property. (integral potentiometer adjustment).

Humidistat

Measures a change in humidity to trigger the fan to run or increase in speed.

Ceiling Switch

Momentary switch (**M**) – using pull cord to break contacts.
Latching switch (**L**) using normally open and common contacts.
Fitting, wiring and operation instructions are available, please contact Titon Technical Dept.

Performance

Equivalent Area (EA) – 2500mm² (minimum)

Free Area (mm²) – Bathroom model:

Integral PSU (length 520-2500mm): 5280mm² min

Remote PSU (length 405-2500mm): 5280mm² min

Kitchen model: Length 880-2500mm: 9000mm²

Details

230V AC Voltage / Power Consumption (standard version)

12V Bathroom – 3.95W @ 15 l/s (540mm length) (Integral PSU)

24V Kitchen – 21W @ 60 l/s (1200mm length) (Integral PSU)

Motor protection: IP24 Rating CE marked according to LVD and EMC directives

Finishes

White finish as standard to RAL 9010. Can be supplied in different colours. External canopy and internal fan can be coloured independently. Details available on request.

More information

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Minimum length mm	Minimum unit length to achieve stated airflow mm	Airflow l/s
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Bathroom Fan Options			
Standard Integral PSU + Pull Cord	420	520	15 *
Standard Remote PSU + Pull Cord	390	505	15 *
Standard Remote PSU + Ceiling Switch	290	405	15 *

Standard Integral PSU + Pull Cord + Humidistat	420	520	15 *
Standard Remote PSU + Pull Cord + Humidistat	390	505	15 *
Standard Remote PSU + Ceiling Switch (L) + Humidistat	390	505	15 *

Continuous Power Integral PSU + Pull Cord + Humidistat	420	520	15 *
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Continuous Running Integral PSU + Pull Cord	420	520	8.6/11.8 *
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Cord Control Integral PSU	420	520	15 *
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Kitchen Fan Options			
Standard Integral PSU + Pull Cord	450	1200	30/60 *
Standard Integral PSU + Ceiling Switch (L)	450	1200	30/60 *

Standard Integral PSU + Pull Cord + Humidistat	450	1200	30/60 *
Standard Integral PSU + Ceiling Switch (L) + Humidistat	450	1200	30/60 *

Continuous Power Integral PSU + Pull Cord + Humidistat	450	1200	30/60 *
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Continuous Power Integral PSU + Ceiling Switch (M) + Humidistat	450	1200	30/60 *
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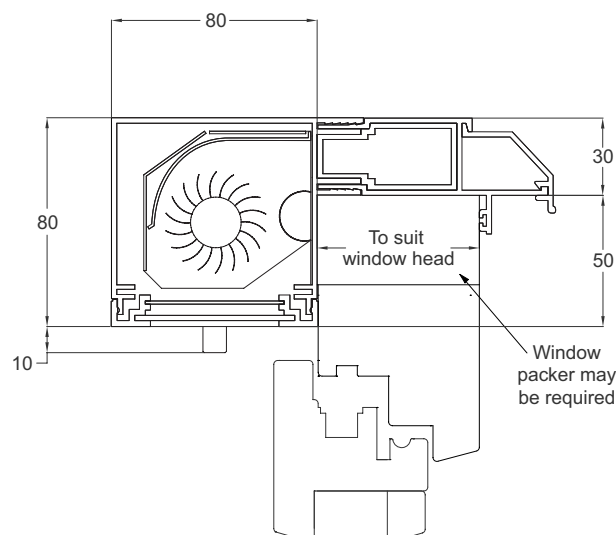
Continuous Running Integral PSU + Pull Cord	520	1200	8.7/21.6 *
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Cord Control Integral PSU	450	1200	30/60 *
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Variable Speed Integral PSU	450	1200	30/60 *
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* Single speed * Two speed

Please contact sales quoting unit type to receive Vent-Trex quotation/order sheet.

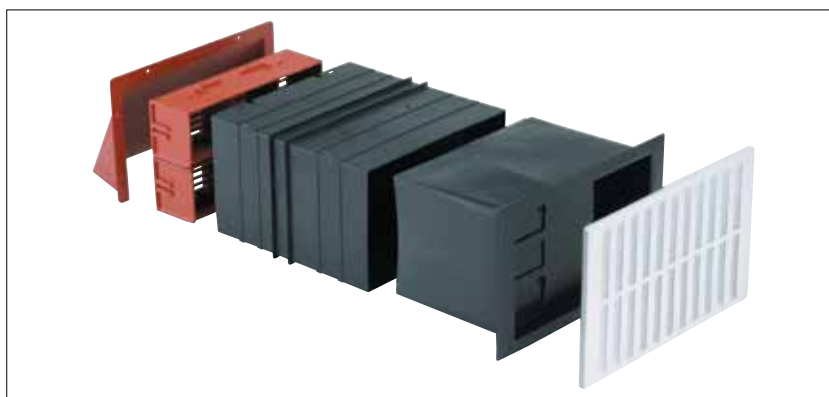


Other Ventilators

Alternative or supplementary types of ventilation

When good or best practice calls for more background ventilation than can be provided through window trickle ventilators, Titon offers a range of products to assist with compliance in domestic situations.

Some products also work in conjunction with, or instead of, window trickle ventilators, to provide the extract and whole building ventilation rates required in an up-to-date, energy efficient dwelling.



Central Mechanical Extract Ventilation



Filtered Supply Ventilation with Sound Attenuation



Extract Fans



Mechanical Ventilation with Heat Recovery



Accessories



Please refer to the Titon Ventilation Systems catalogue or www.titon.com for further information on all these ranges.

Window Hardware



Amendments to the product range are made on ongoing basis to meet changing market demands. For the most up to date information, please go to www.titon.com.

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Overture E

Espagnolette handle

Suitable for:

PVCu



ALUMINIUM



TIMBER



Overture espagnolette handles are part of Titon's Overture suite of window and door hardware.

This stylish range has been designed by Titon to provide specifiers with a collection of window handles, door handles, letter plates and more.

The Overture E is ergonomically designed to include a solid and sculptured grip, and is available in straight or handed versions, in a variety of finishes.



Right hand – satin chrome – on timber



Straight – white – on PVCu



Features and Benefits

- Suitable for timber, PVCu or aluminium windows
- Ergonomic design; solid and sculptured grip
- Please contact us for the latest test results
- 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 bagged with machine screws
- 15mm, 25mm, 30mm or 40mm x 7mm spindle options available



Available in straight or handed versions with 15mm, 25mm, 30mm or 40mm x 7mm spindles.
Non-locking and fire escape retrofit options are also available.

Manufactured from

Zinc Alloy to BS EN 1774 ZL3
Aluminium to BS EN 1490 LM20

Recommended screws

M5 machine screws

Standards

Please contact us for the latest test results

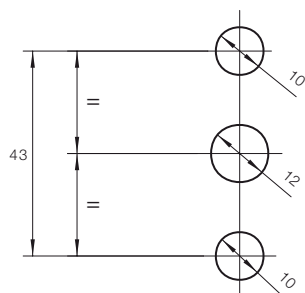
Finishes

White, Polished chrome, Satin chrome,
PVD gold and Black

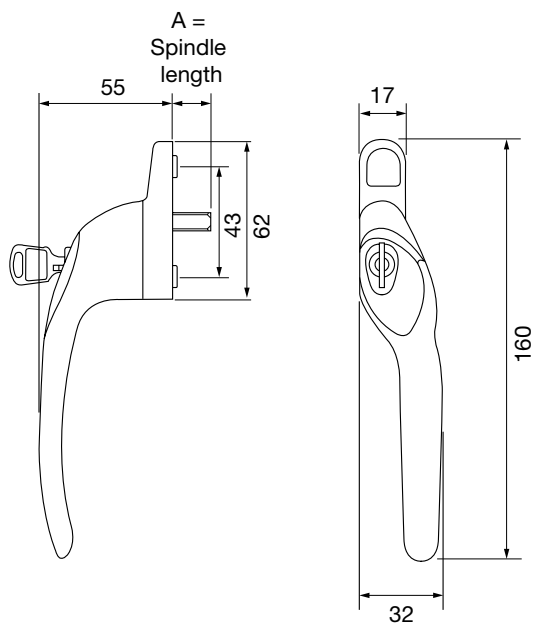
More information

export@titon.com / 01206 713801

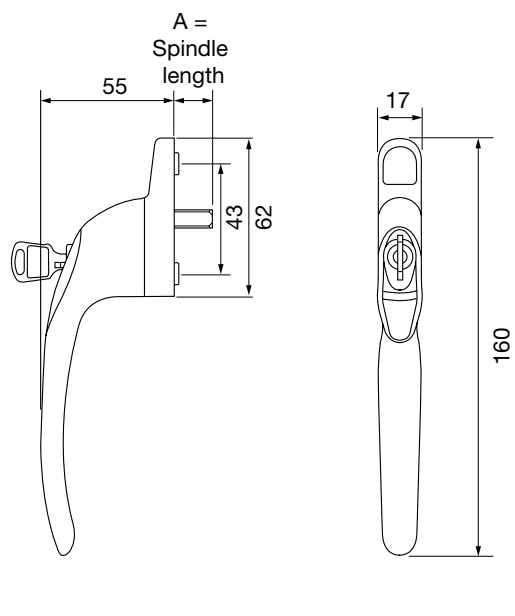
Handle fixing detail



Right hand handle



Straight handle



A = 15mm, 25mm, 30mm or 40mm x 7mm spindles.

All dimensions in mm

Overture Tilt & Turn Handle

Suitable for:

PVCu



ALUMINIUM



TIMBER



The Tilt & Turn handle is designed for use on PVCu, aluminium or timber tilt & turn windows.

It is available as a locking or non locking handle and comes in a wide range of finishes.



Features and Benefits

- Tilt & Turn locking handle
- Part of the fully suited Overture product range
- Range of finishes available – please phone for availability
- Push button to open
- 35mm x 7mm spindle
- Locking or non locking versions
- Supplied with screws, key & non-locking insert as standard
- 10-year mechanical guarantee
- BBA approved
- Please contact us for the latest test results

Available in straight versions with 35mm x 7mm spindles.
Locking or non locking versions are also available.

Manufactured from

Zinc Alloy to BS EN 1774 ZL3
Aluminium to BS EN 1490 LM20

Recommended screws

M5 machine screws

Standards

Please contact us for the latest test results

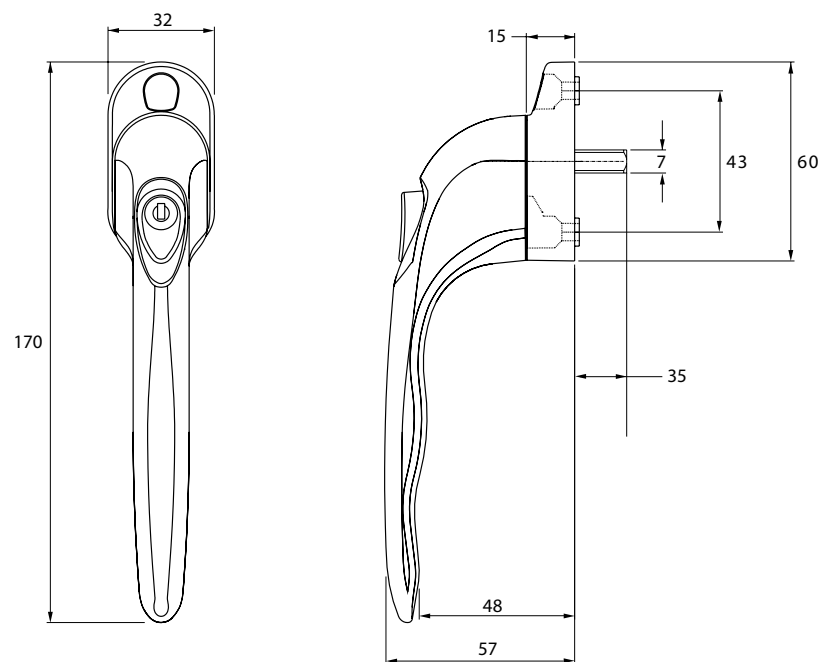
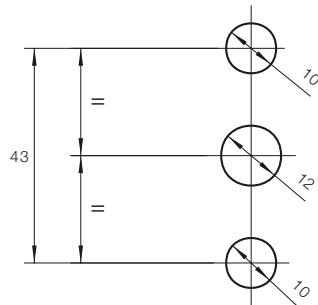
Finishes

White, Polished chrome, Gold,
Satin Silver and Black

More information

export@titon.com / 01206 713801

Handle fixing detail



All dimensions in mm

Select Standard

Espagnolette handle

Suitable for:

PVCu



ALUMINIUM



TIMBER



Select Standard is a locking espagnolette handle for PVCu, aluminium or timber windows.

Select Standard features a strong ergonomic grip and is ideal for larger sashes. The handle is available in handed versions and in a variety of plated or painted finishes.



Right hand - bright nickel

Features and Benefits

- Suitable for PVCu, aluminium or timber windows
- Available in handed versions
- Locking, non-locking or fire escape versions
- Smooth handle action and streamlined design
- Ideal for larger sashes, fully reversible or pivot windows
- Ergonomic grip for ease of operation in limited access environments
- Non standard spindle sizes available on request
- Registered design
- Patented
- 30mm, 40mm x 7mm spindle lengths as standard



Large key

Standard key



Product	Product Code
Select Standard Espagnolette right hand handle – locking, 7 x 30mm spindle	TF1430RH7
Select Standard Espagnolette left hand handle – locking, 7 x 30mm spindle	TF1430LH7
Select Standard Espagnolette right hand handle – non-locking, 7 x 30mm spindle	TF1430RH7DM
Select Standard Espagnolette left hand handle – non-locking, 7 x 30mm spindle	TF1430LH7DM
Select Standard Espagnolette right hand handle – fire escape, 7 x 30mm spindle	TF1430RH7FE
Select Standard Espagnolette left hand handle – fire escape, 7 x 30mm spindle	TF1430LH7FE
Large Key	TF1206

Other spindle sizes available upon request. (Standard key supplied with each handle.)

Manufactured from

Zinc Alloy to BS EN 1774 ZL3

Recommended screws

M5 machine screws

Standards

Please contact us for the latest test results.

Finishes

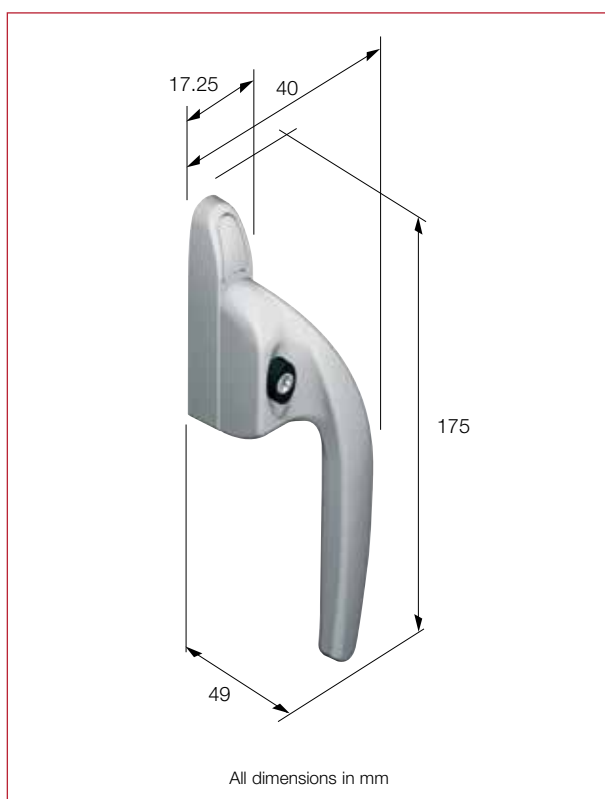
Suffix product code with:

-020 (white paint), -023 (brown paint), -825 (satellite chrome),
-818 (bright nickel), -102 (albratin gold)

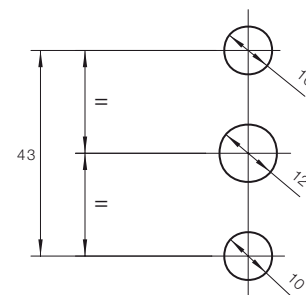
NOTE: Plated finishes are not suitable for use in coastal or highly corrosive environments

More information

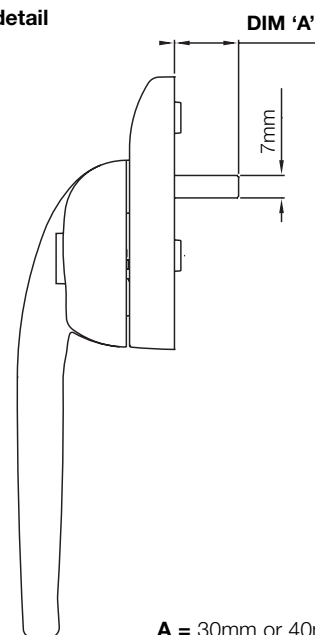
export@titon.com / 01206 713801



Handle fixing detail



Spindle detail



Locking



Non-locking



Fire escape – green button

Select Compact

Low height espagnolette handle

Suitable for:

PVCu



ALUMINIUM



TIMBER



Select Compact is a locking espagnolette handle for PVCu, aluminium or timber windows.

Select Compact features a compact design that has a very low 28mm stack height for ease of window transit and is available in a variety of plated or painted finishes.



Right hand - brown paint

Features and Benefits

- Suitable for timber or PVCu windows
- Very low 28mm stack height for ease of window transit and ideal for use behind window blinds or shutters
- Unique compact design
- Locking, non-locking or fire escape versions
- Smooth handle action and streamlined design
- Non standard spindle sizes available on request
- Registered design
- Patented



Large key

Standard key

Product	Product Code
Select Compact Espagnolette right hand handle – locking, 7 x 30mm spindle	TF1330RH7
Select Compact Espagnolette left hand handle – locking, 7 x 30mm spindle	TF1330LH7
Select Compact Espagnolette right hand handle – non locking, 7 x 30mm spindle	TF1330RH7DM
Select Compact Espagnolette left hand handle – non locking, 7 x 30mm spindle	TF1330LH7DM
Select Compact Espagnolette right hand handle – fire escape, 7 x 30mm spindle	TF1330RH7FE
Select Compact Espagnolette left hand handle – fire escape, 7 x 30mm spindle	TF1330LH7FE
Large Key	TF1206

Non-standard spindle sizes available upon request. (Standard key supplied with each handle.)

Manufactured from

Zinc Alloy to BS EN 1774 ZL3

Recommended screws

M5 machine screws

Standards

Please contact us for the latest test results.

Finishes

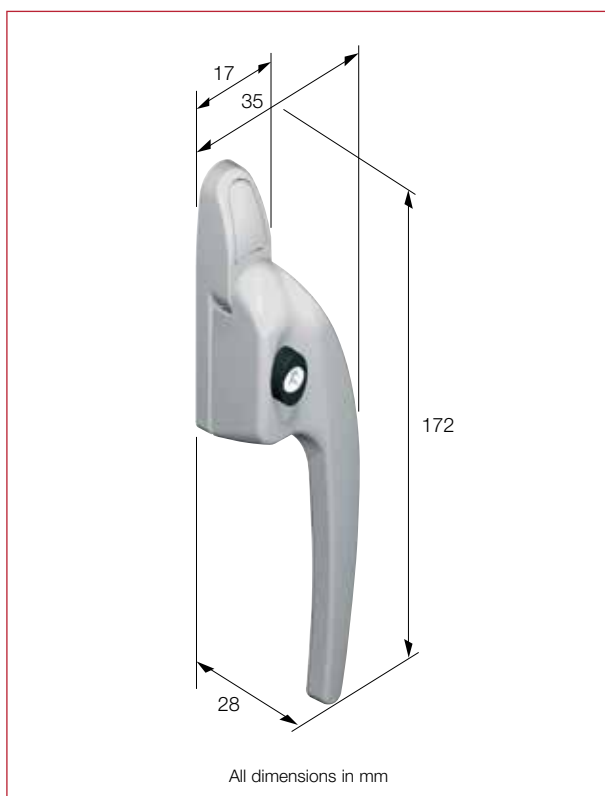
Suffix product code with:

-020 (white paint), -023 (brown paint), -825 (satellite chrome),
-818 (bright nickel), -102 (albratin gold)

NOTE: Plated finishes are not suitable for use in coastal or highly corrosive environments

More information

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Locking

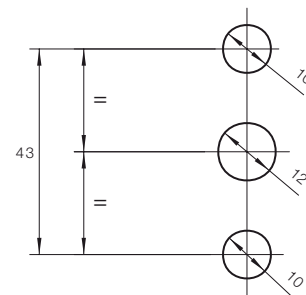


Non-locking

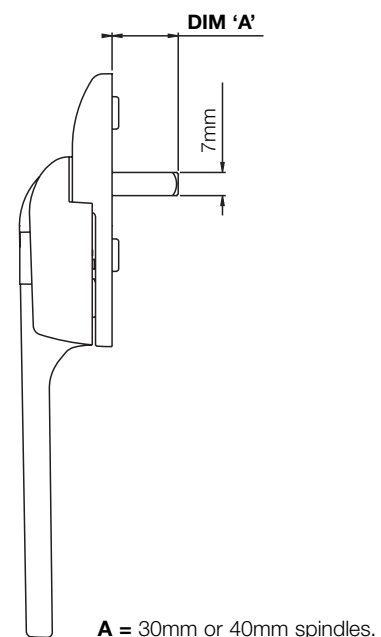


Fire escape – green button

Handle fixing detail



Spindle detail



Select Cockspur

Cockspur handle

Suitable for:

TIMBER



Select Cockspur is a locking window handle for timber windows that is available with a suited casement stay.

Select Cockspur features a compact design that has a very low 28mm stack height for ease of window transit.

It is available in a variety of plated or painted finishes and has the option of plastic or metal keeps.



Select Cockspur



Keep lead-in



Open

Features and Benefits

- Specifically designed for timber windows
- Minimal projection for ease of window stacking
- Unique lead-in on handle nose
- Section related non-handed narrow wedge which acts as a sash aligner
- Handle incorporates sash lift
- Locking, non-locking or fire escape versions
- Metal keep option for added security
- Handle uses same lock and key as Select Casement Stay



Large key



Standard key

Product	Product Code
Select Cockspur right hand handle – locking	TF1200
Select Cockspur left hand handle – locking	TF1201
Select Cockspur right hand handle – non locking	TF1200DM
Select Cockspur left hand handle – non locking	TF1201DM
Select Cockspur right hand handle – fire escape	TF1200FE
Select Cockspur left hand handle – fire escape	TF1201FE
Metal flat keep	TF1263
Metal bevelled keep	TF1264
Plastic flat keep	TF1243
Plastic bevelled keep	TF1244
Large key	TF1206

(Standard key supplied with each handle)

Manufactured from

Zinc Alloy to BS EN 1774 ZL3,
Component Parts – POM, PA6

Recommended screws

4mm (No.8) countersunk head

Standards

Please contact us for the latest test results.

Finishes

Suffix product code with:

-020 (white paint), -023 (brown paint),
-825 (satalyte chrome), -818 (bright nickel),
-102 (albrafin gold)

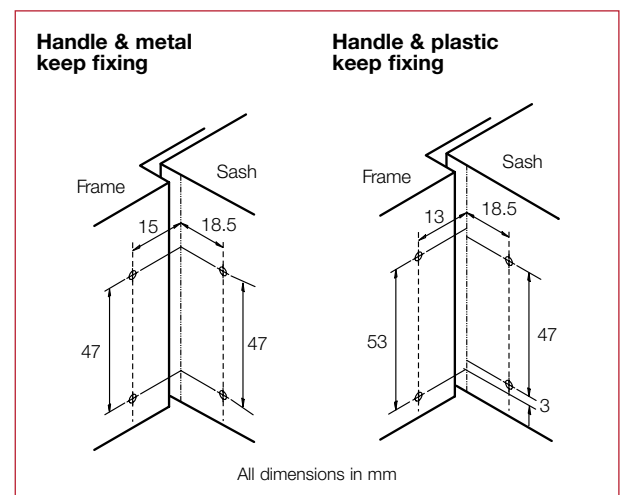
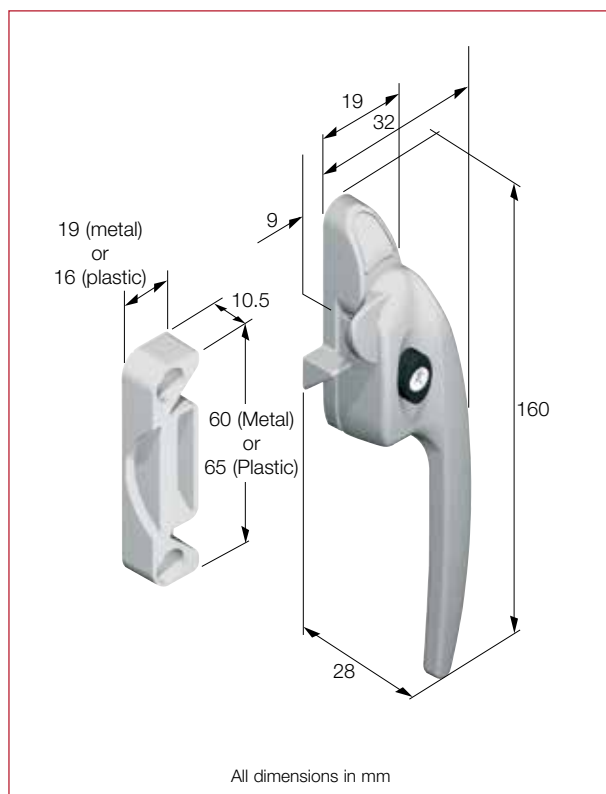
Plastic keep:

-012 (black), -315 (brown), -392 (white)

NOTE: Plated finishes are not suitable for use in coastal or highly corrosive environments.

More information

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Locking



Non-locking



Fire escape – green button

Select Casement Stay

Casement stay

Suitable for:

TIMBER



Select Casement Stay is a locking casement stay for timber windows that is available with a suited cockspur handle.

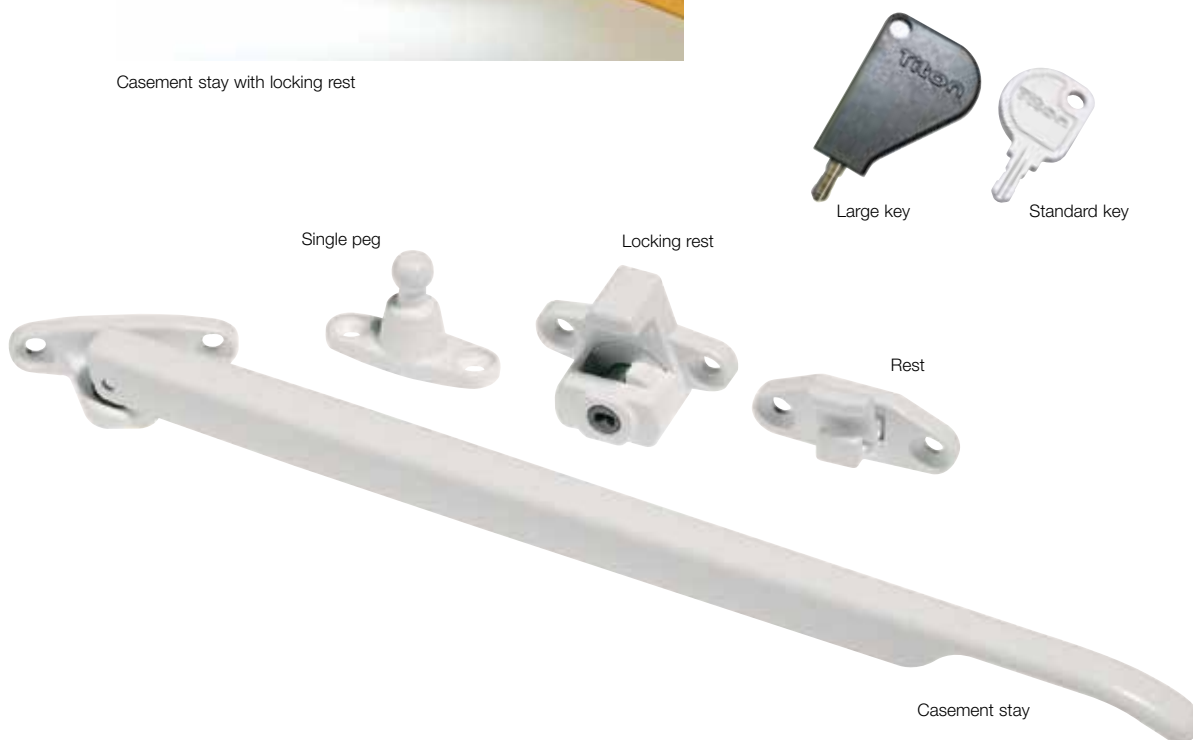
Select Casement Stay features a compact design and comes with a variety of accessories including pegs and rests.



Casement stay with locking rest

Features and Benefits

- Specifically designed for timber windows
- Minimal projection for ease of window stacking
- Non-handed
- Locking or non-locking versions
- Integral stay clip
- Stay uses same lock and key as Select Cockspur handle to aid end user



Product	Product Code
Casement stay	TR51
Locking rest	TR202
Rest	TR53
Single peg	TR54
Large key	TF1206

(Standard key supplied with each stay)

Manufactured from

Zinc Alloy to BS EN 1774 ZL3,
Component Parts – POM, PA6

Recommended screws

4mm (No.8) countersunk head

Standards

Please contact us for the latest test results.

Finishes

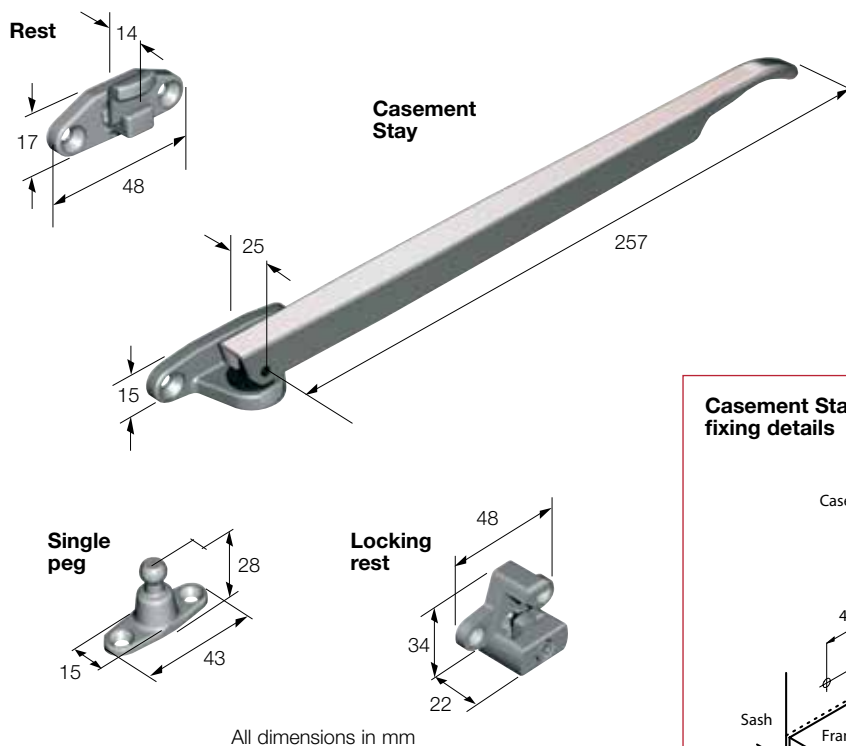
Suffix product code with:

-020 (white paint), -023 (brown paint),
-825 (satelite chrome), -818 (bright nickel),
-102 (albrafin gold)

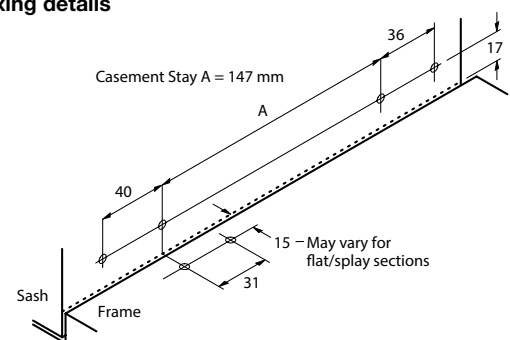
NOTE: Plated finishes are not suitable for use in coastal or highly corrosive environments.

More information

export@titon.com / 01206 713801



Casement Stay fixing details



Derwent

Cockspur or espagnolette handle

Suitable for:

PVCu



ALUMINIUM



TIMBER



Derwent is a substantial locking window handle with options of cockspur, espagnolette or a combination of both.

Derwent is suitable for aluminium, PVCu or timber windows and is available in a variety of plated or painted finishes.



Right hand – brown paint

Features and Benefits

- Substantial handed grip
- Particularly suitable for use by the elderly
- Cockspur available in short or long nose versions
- Espagnolette available with or without nose
- Fire escape version available
- Supplied with key and screw covers



Standard key

Product	Product Code
Derwent Cockspur right hand locking handle – short nose	TF500SN
Derwent Cockspur left hand locking handle – short nose	TF501SN
Derwent Cockspur right hand locking handle – long nose	TF500LN
Derwent Cockspur left hand locking handle – long nose	TF501LN
(Suffix code with 'F' for Fire escape version)	
Double lead-in keep	TF203
Flat night vent keep	TF205
Bevelled night vent keep	TF246
Derwent Espagnolette right hand locking – no nose 7 x 30mm spindle	TF530R7
Derwent Espagnolette left hand locking – no nose 7 x 30mm spindle	TF530L7
Derwent Espagnolette right hand locking – with nose 7 x 30mm spindle	TF630R7
Derwent Espagnolette left hand locking – with nose 7 x 30mm spindle	TF630L7

(Suffix code with 'F' for Fire escape version)

Manufactured from

Zinc Alloy to BS EN 1774 ZL3, Keep – POM

Recommended screws

M5 machine screws or 4mm (No.8) countersunk head

Standards

Please contact us for the latest test results.

Finishes

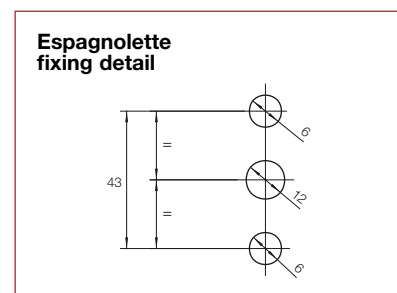
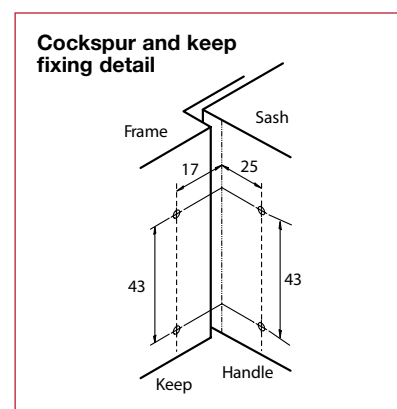
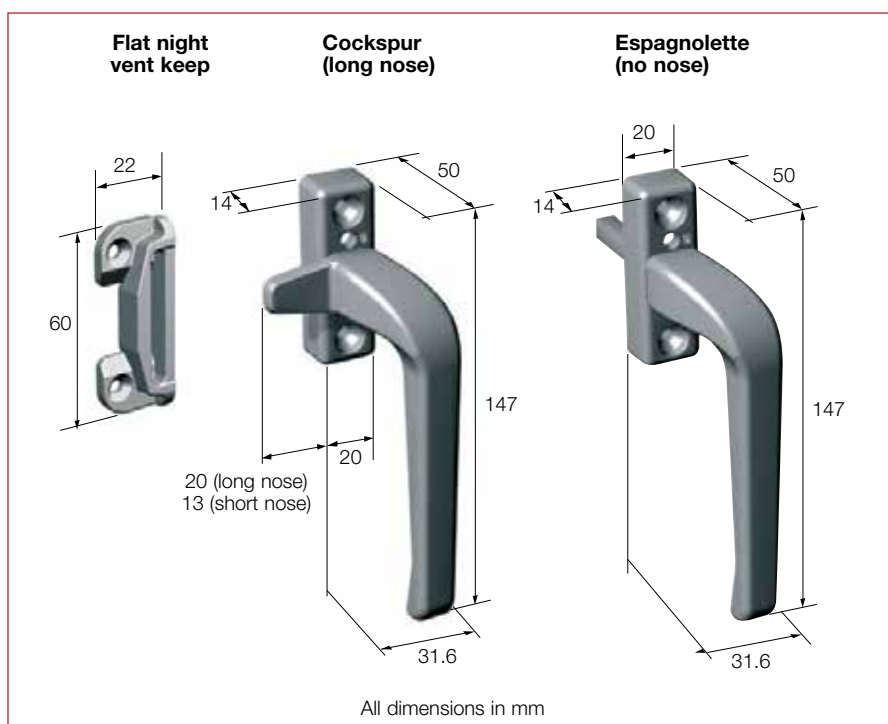
Suffix product code with:

-020 (white paint), -023 (brown paint),
-818 (bright nickel), -102 (albratin gold)

NOTE: Plated finishes are not suitable for use in coastal or highly corrosive environments.

More information

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Virage and Fireman's Axe

Cockspur handle and resistant fittings

Suitable for:

PVCu



ALUMINIUM



TIMBER



Virage
cockspur

Fireman's Axe

Features and Benefits

Virage

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

Fireman's axe

- 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

Details - Virage

Window Hardware

Available in straight versions with 35mm x 7mm spindles.
Locking or fire escape versions are also available.

Manufactured from

Zinc Alloy to BS EN 1774 ZL3
Aluminium to BS EN 1490 LM20

Recommended screws

M5 machine screws

Standards

Please contact us for the latest test results.

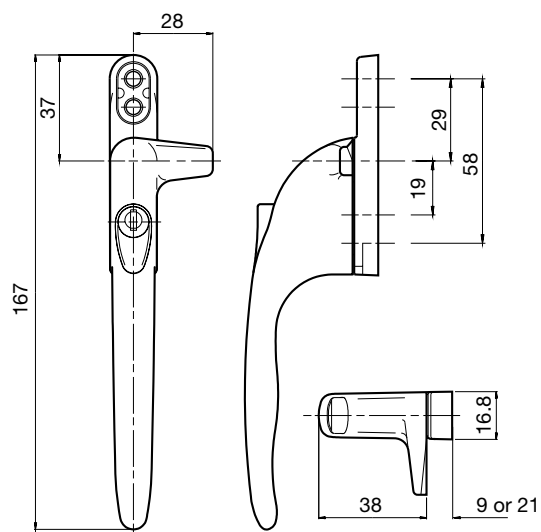
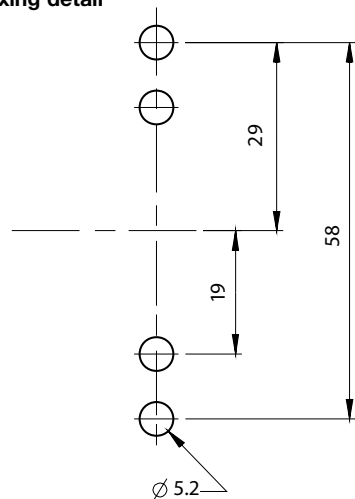
Finishes

White, silver and black

More information

export@titon.com / 01206 713801

Handle fixing detail



LH shown

All dimensions in mm

Kenrick Standard Espagnolette

Suitable for:

PVCu



ALUMINIUM



TIMBER



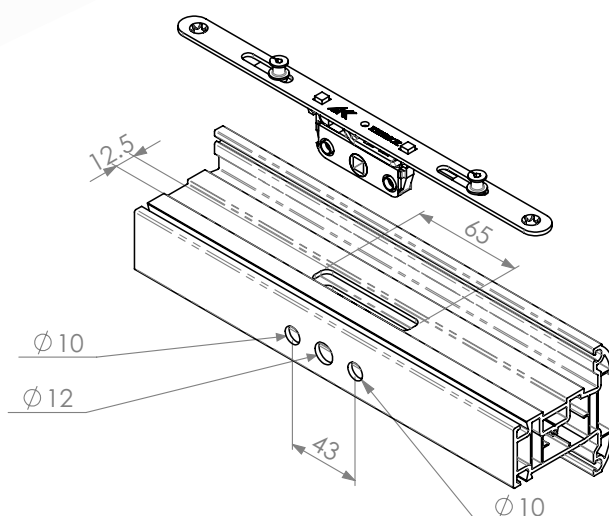
The Standard Espagnolette locking mechanism is designed to meet the requirements of the UK market – where peace of mind, performance, longevity and enhanced security are vital.

Features and Benefits

- Adjustable mushroom cams
- Simple to install
- Available in 20mm and 22mm backset gearbox
- 62mm robust unhandled die-cast gearbox
- Profile related keeps with night vent facility
- 8mm and 10mm cam heights
- Bar sizes from 250mm to 1200mm
- Tested to 100,000 cycles
- 10 year mechanical guarantee
- Minimum of 240 hours salt spray testing - BSEN 1670:2007



Handle fixing and lockcase routing detail



20mm Backset

Product Code	Espag Size (mm)	Cam Height (mm)	No. of Fixing Points	No. of Mushroom Cams
KSES25020	250	8	2	2
KSES40020	400	8	4	2
KSES60020	600	8	6	2
KSES80020	800	8	6	2
KSES100020	1000	8	6	3
KSES120020	1200	8	8	4
KSES2502010U	250	10	2	2
KSES4002010U	400	10	4	2
KSES6002010U	600	10	6	2
KSES8002010U	800	10	6	2
KSES10002010U	1000	10	6	3
KSES12002010U	1200	10	8	4

22mm Backset

Product Code	Espag Size (mm)	Cam Height (mm)	No. of Fixing Points	No. of Mushroom Cams
KSES25022	250	8	2	2
KSES40022	400	8	4	2
KSES60022	600	8	6	2
KSES80022	800	8	6	2
KSES100022	1000	8	6	3
KSES120022	1200	8	8	4
KSES2502210U	250	10	2	2
KSES4002210U	400	10	4	2
KSES6002210U	600	10	6	2
KSES8002210U	800	10	6	2
KSES10002210U	1000	10	6	3
KSES12002210U	1200	10	8	4

Size range

250 - 1200mm

Manufactured from

Mild steel

Finish

Zinc plate

Performance

(Full test details available on request.)

Minimum of 240 hours salt spray testing - BSEN 1670:2007

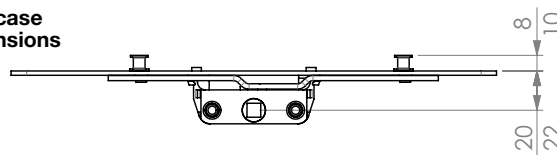
When ordering please specify:

1. Espagnolette type
2. Sash rebate
3. Backset size
4. Cam size
5. Profile name and number

More information

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Lockcase dimensions



Kenrick Interceptor

Security espagnolette

Suitable for:

PVCu



ALUMINIUM



TIMBER



Interceptor twin cam espagnolette has been designed with time saving as a high priority.

This Secured by Design espagnolette features twin adjustable mushroom cams and is non-crop, meaning it can be fitted in seconds.

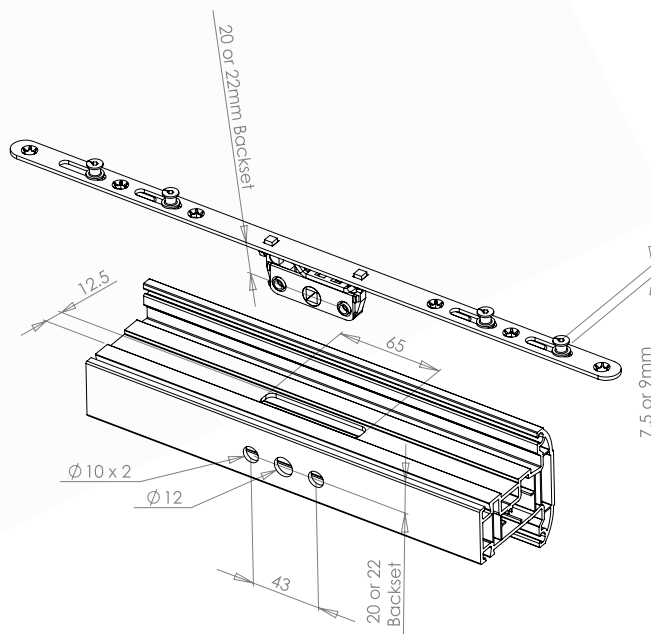


Features and Benefits

- No Cropping
- Simple to install
- Twin adjustable mushroom cams
- Secure by Design product
- Available in 20mm and 22mm backset gearbox
- 7.5mm/9mm and 11.5mm Mushroom Cams
- Robust unhandled die-cast gearbox
- Profile related keeps with night vent facility
- Bar Size from 280mm to 1400mm
- Tested to 100,000 cycles
- 10 year mechanical guarantee
- Minimum of 240 hours salt spray testing - BSEN 1670:2007
- Patented high security locking
- Guaranteed security
- PAS24 Capable



Handle fixing and lockcase routing detail



20mm Backset

Product Code	Bar Size (mm)	Number of Locking Points	Number of Keeps
INT28020	280	2	1
INT40020	400	4	2
INT60020	600	4	2
INT80020*	800	4	3
INT100020*	1000	4	3
INT120020*	1200	6	3
INT140020*	1400	8	4

22mm Backset

Product Code	Bar Size (mm)	Number of Locking Points	Number of Keeps
INT28022	280	2	1
INT40022	400	4	2
INT60022	600	4	2
INT80022*	800	6	3
INT100022*	1000	6	3
INT120022*	1200	6	3
INT140022*	1400	8	4

*Low handle height version available. Call for more details.

Size range

280 - 1400mm

Manufactured from

Gearbox - Zinc

Extensions - Mild Steel

Striker Steel Top - Plastic Profile related base

Finish

Zinc plate



Performance

(Full test details available on request.)

Minimum of 240 hours salt spray testing - BSEN 1670:2007

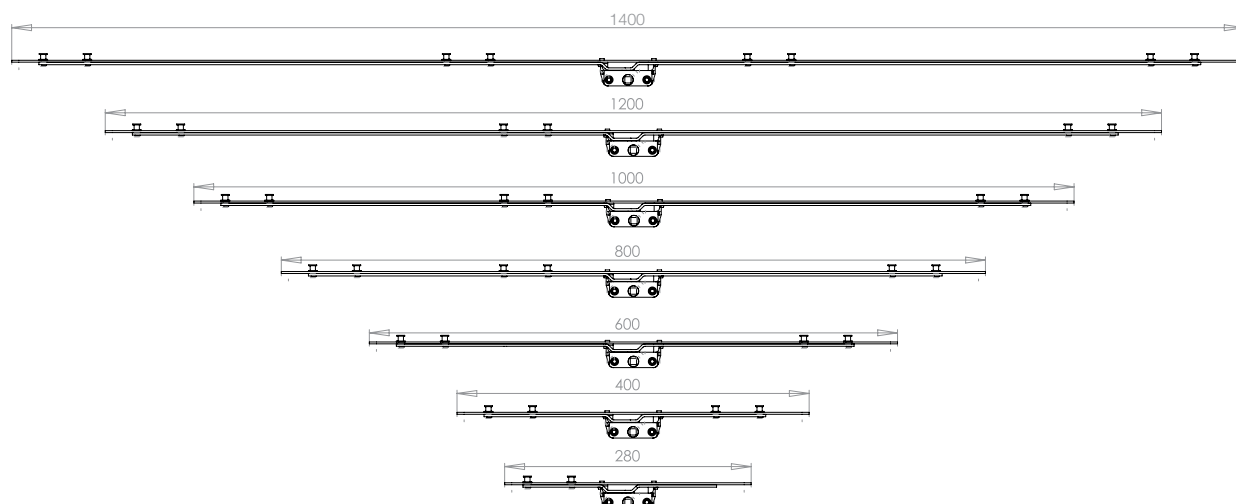
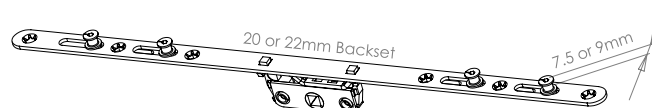
When ordering please specify:

1. Espagnolette type
2. Sash rebate
3. Backset size
4. Cam size
5. Profile name and number
6. Handing as keeps are handed

More information

export@titon.com / 01206 713801

Lockcase dimensions



Kenrick Easi-Fit

Security espagnolette

Suitable for:

PVCu



ALUMINIUM



TIMBER



Easi-Fit provides very high levels of security by way of the patented claw locking mechanism.

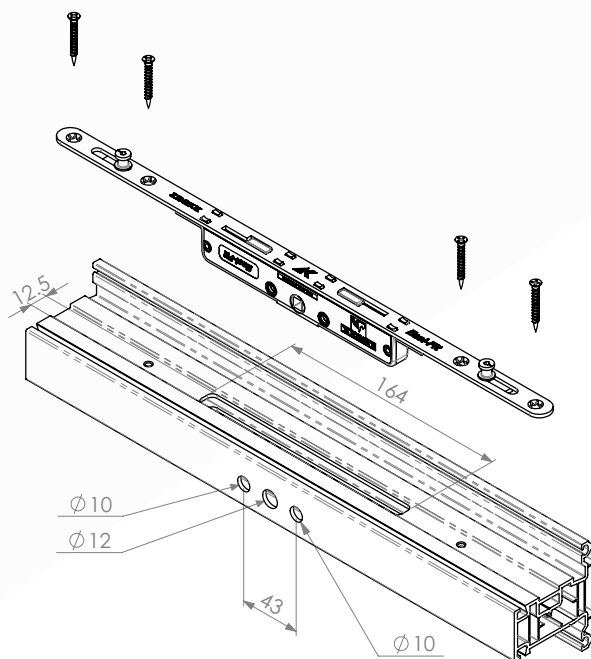
No cropping required, six bar sizes cover sash rebates from 200mm up to 1200mm. The faceplate has rounded ends to help avoid damage to the profile surface during fabrication.



Features and Benefits

- Patented high security claw locking
- Secure by Design product
- Available in 20mm and 22mm backset gearbox
- Robust unhandled die-cast gearbox
- Profile related keeps with night vent facility
- Bi-directional die cast claws
- Tested to 100,000 cycles
- 10 year mechanical guarantee
- Minimum of 240 hours salt spray testing - BSEN 1670:2007
- Guaranteed Security
- PAS24 Capable

Handle fixing and lockcase routing detail



20mm Backset

Product Code	Bar Size (mm)	No. of Fixing Points	No. of Mushroom Cams	No. of Locking Claws
KSEF20020	200	2	0	2
KSEF40020	400	4	2	2
KSEF60020	600	4	2	2
KSEF80020	800	6	2	2
KSEF100020	1000	6	2	2
KSEF120020	1200	8	4	2

22mm Backset

Product Code	Bar Size (mm)	No. of Fixing Points	No. of Mushroom Cams	No. of Locking Claws
KSEF20022	200	2	0	2
KSEF40022	400	4	2	2
KSEF60022	600	4	2	2
KSEF80022	800	6	2	2
KSEF100022	1000	6	2	2
KSEF120022	1200	8	4	2

Size range

200 - 1200mm

Manufactured from

Gearbox - Zinc
Face and drive bar - Mild Steel
Striker - Zinc

Finish

Zinc plate

Performance

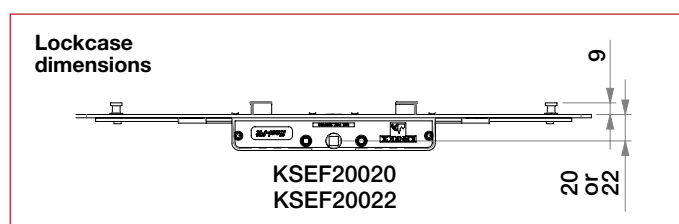
(Full test details available on request.)
Minimum of 240 hours salt spray testing - BSEN 1670:2007

When ordering please specify:

1. Espagnolette type
2. Sash size
3. Backset size
4. Cam size
5. Profile name and number

More information

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Kenrick Nemesis

Security espagnolette

Suitable for:

ALUMINIUM



Multipoint locking espagnolette with mushroom cams for side hung and top hung applications, designed for profiles with, or without eurogroove.

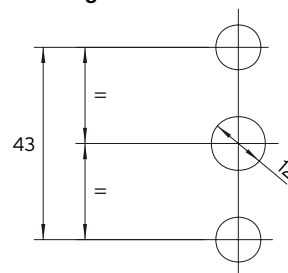
Available in a range of lengths with one backset and two cam heights. The Nemesis espagnolette is compatible with all standard espag handles with 43mm fixing centres and a 7mm square spindle and is capable of achieving PAS24.



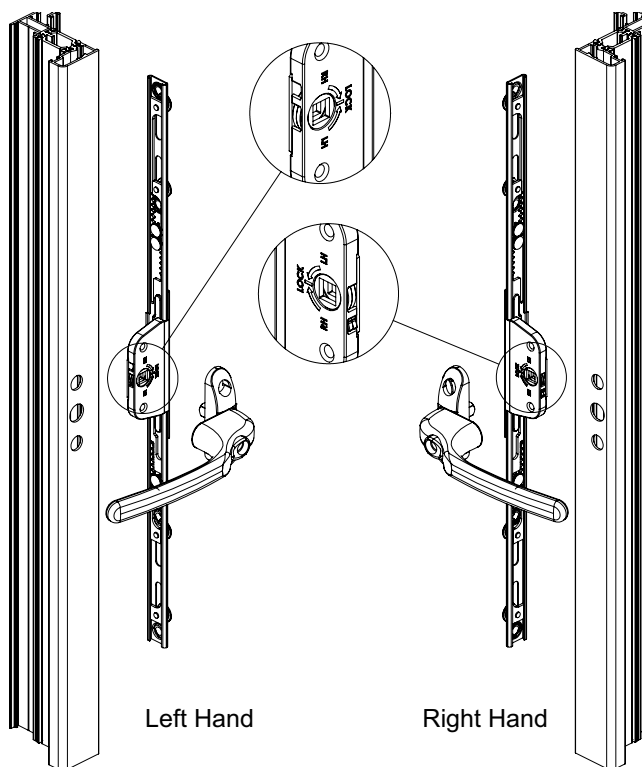
Features and Benefits

- Bidirectional locking system which
- Designed for PAS24 security
- Low cost and rapid tooling for bespoke keeps and packers
- Suitable for use on windows with, or without eurogroove
- Mushroom head cams aid security
- Adjustable compression
- 2 sizes of mushroom cam heights
- Available in 7 different lengths 400mm to 1300mm
- Keeps are profile related, please contact us for suitability or custom design service
- Manufactured from 304 stainless steel

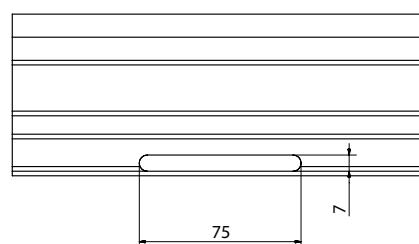
Handle fixing detail



Handing detail



Lockcase routing detail



Nemesis Espagnolette - 20mm backset version

Length (mm)	LH 5mm Cam	RH 5mm Cam	RH 7mm Cam	RH 7mm Cam
400	NEM400205LH	NEM400205RH	NEM400207LH	NEM400207RH
550	NEM550205LH	NEM550205RH	NEM550207LH	NEM550207RH
700	NEM700205LH	NEM700205RH	NEM700207LH	NEM700207RH
850	NEM850205LH	NEM850205RH	NEM850207LH	NEM850207RH
1000	NEM1000205LH	NEM1000205RH	NEM1000207LH	NEM1000207RH
1150	NEM1150205LH	NEM1150205RH	NEM1150207LH	NEM1150207RH
1300	NEM1300205LH	NEM1300205RH	NEM1300207LH	NEM1300207RH

Size range

400 to 1300mm espagnolette lengths

Manufactured from

304 Stainless steel

Finish

Silver finish - BS EN 1670 Grade 4 (240 hours)

Recommended screws

Espagnolette - 4mm countersunk head

Handle fitting - M5 Machine screw

Keeps/Strikes and packer

A clever combination of universal top plate and bespoke packer, provides a quick and economical way to provide bespoke keep solutions. Contact Titon to discuss your requirements.

Performance

Full test details available on request

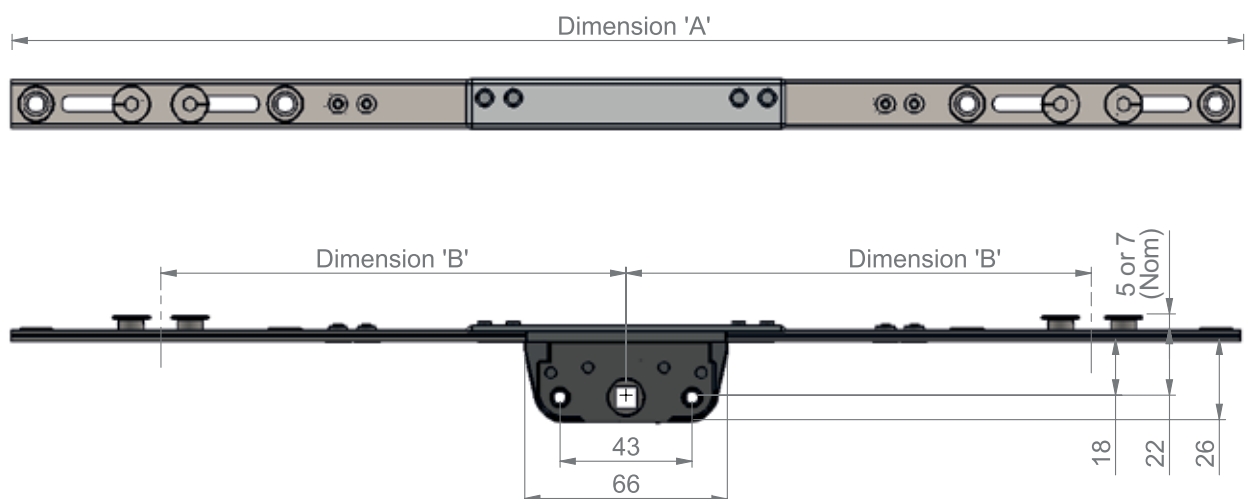
When ordering please specify

1. Espagnolette length
2. Handing
3. Cam height
4. Profile name and number

More information

export@titon.com / 01206 713801

Espagnolette details



Mushroom Position

Dimension 'A' (mm)	400	550	700	850	1000	1150	1300
Dimension 'B' (mm)	151.5	226.5	301.5	376.5	451.5	526.5	601.5

Kenrick Excalibur

Security shootbolt espagnolette

Suitable for:

PVCu



ALUMINIUM



TIMBER



Excalibur is a market leading product that constantly enables window fabricators to sell effective solutions to their customers, be they trade or domestic.

Excalibur offers first rate security features with longevity and reliability. No other window locking system can match Excalibur for value. Excalibur is a multi point locking system that ensures each window is sealed against weather and intruders, supported by an insurance backed guarantee scheme.

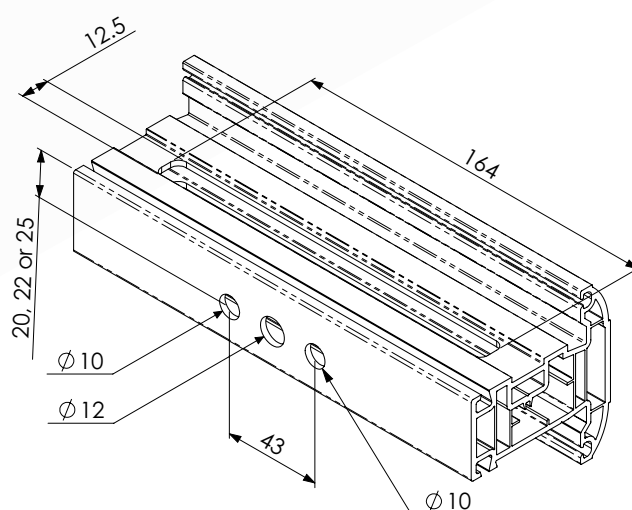


Features and Benefits

- Patented high security claw locking (No claw version available)
- Steel shootbolts
- Secure by Design product
- Available in 20mm/22mm and 25mm backset gearbox
- Robust unhandled die-cast gearbox
- Profile related keeps with night vent facility
- Fully retractable or with mushroom cams
- Bi-directional die cast claws
- Low handle height capability
- Tested to 100,000 cycles
- 10 year mechanical guarantee
- Minimum of 240 hours salt spray testing - BSEN 1670:2007
- Guaranteed Security
- PAS24 Capable



Handle fixing and lockcase routing detail



Product Code	Gearbox Backset (mm)
EXC0020XL	20
EXC0022XL	22
EXC0025XL	25

Product Code (No Claws)	Gearbox Backset (mm)
EXC0020NC	20
EXC0022NC	22
EXC0025NC	25

Standard Extension Part Numbers (No Cams)

Product Code	Sash Rebate Size (mm)	Number of Locking Points
EXC300440	310-440	4
EXC370500	364-500	4
EXC430700	430-692	4
EXC490700	492-692	4
EXC690950	690-950	4
EXC9501210	946-1210	4
EXC12101470	1210-1470	4

Plus Extension Part Numbers (With Adjustable Mushroom Cams)

Product Code	Sash Rebate Size (mm)	Number of Locking Points
CLS240370	310-400	2
CLSFFBAR01	436-576	6
CLSFFBAR03	570-880	6
CLSFFBAR05	870-1180	8
CLSFFBAR07	1168-1476	8

Size range

310 - 1470mm (Standard Extensions)
310 - 1476mm (Plus Extensions)

Manufactured from

Gearbox - Zinc
Extensions - Mild Steel
Striker - Zinc

Finish

Zinc plate

Performance

(Full test details available on request.)
Minimum of 240 hours salt spray testing - BSEN 1670:2007

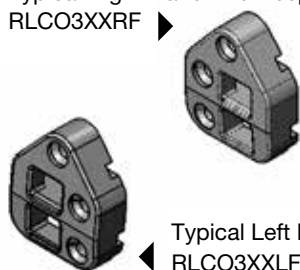
When ordering please specify:

1. Espagnolette type
2. Sash rebate
3. Backset size
4. Cam size
5. Profile name and number

More information

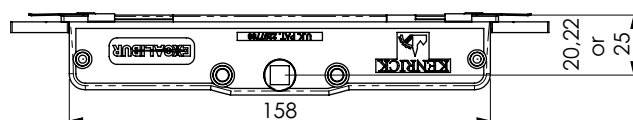
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Typical Right Hand End Keep
RLCO3XXRF

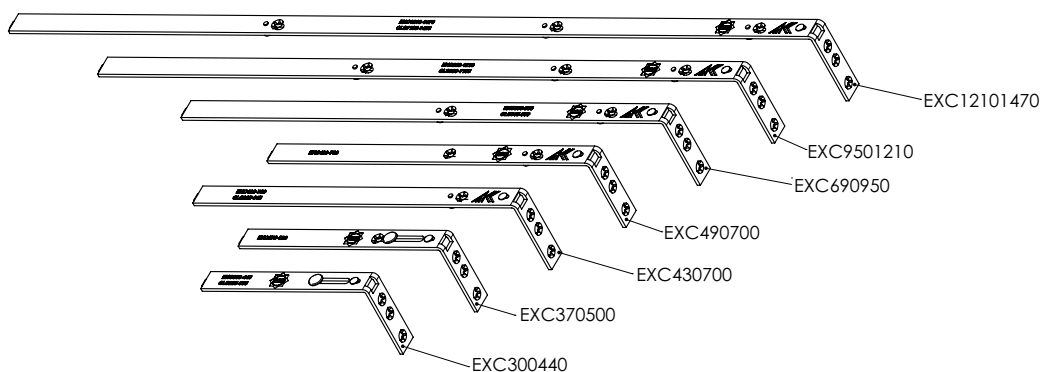


Typical Left Hand End Keep
RLCO3XXLF

Lockcase dimensions



EXC0020 Excalibur 20mm backset gearbox
EXC0022 Excalibur 22mm backset gearbox
EXC0025 Excalibur 25mm backset gearbox



Kenrick Centurion

Security shootbolt espagnolette

Suitable for:

PVCu



ALUMINIUM



TIMBER



Centurion is an adaptable locking system providing high levels of security whilst also satisfying the demand for cost effective production.

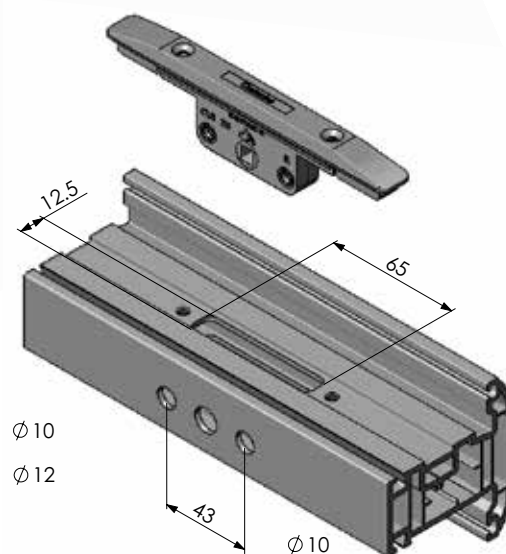
Centurion allows window fabricators of any size the opportunity to market a high value finished product at a cost effective price.



Features and Benefits

- Simple to install
- Mushroom bolts
- Secure by Design
- Available in 20mm and 22mm backset gearbox
- Robust unhandled die-cast gearbox
- Profile related keeps with night vent facility
- Steel shootbolts
- Low handle height capability
- Tested to 100,000 cycles
- 10 year mechanical and design guarantee
- Minimum of 240 hours salt spray testing - BSEN 1670:2007
- PAS24 Capable

Handle fixing and lockcase routing detail



Centurion Gear Box

Product Code	Gearbox Backset (mm)
CLS20	20
CLS22	22

Standard Extension Part Numbers (With Adjustable Mushroom Cams)

Product Code	Sash Rebate Size	Number of Locking Points
CLS240370	250-376	2
CLS370620	376-634	4
CLS620890	634-892	4
CLS8901155	892-1156	4

Size range

250-1414mm espagnolette lengths **(Standard Extension)**

568-1466mm **(Plus Extension)**

300mm Extension - EXD300EXTM **(With Mushroom)**

300mm Extension - EXD300EXT **(Without Mushroom)**

Manufactured from

Gearbox- Zinc

Extensions- Mild Steel

Striker- Zinc

Finish

Zinc plate

Performance

(Full test details available on request.)

Minimum of 240 hours salt spray testing - BSEN 1670:2007

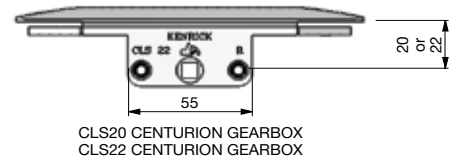
When ordering please specify:

1. Espagnolette type
2. Sash rebate
3. Backset size
4. Cam size
5. Profile name and number

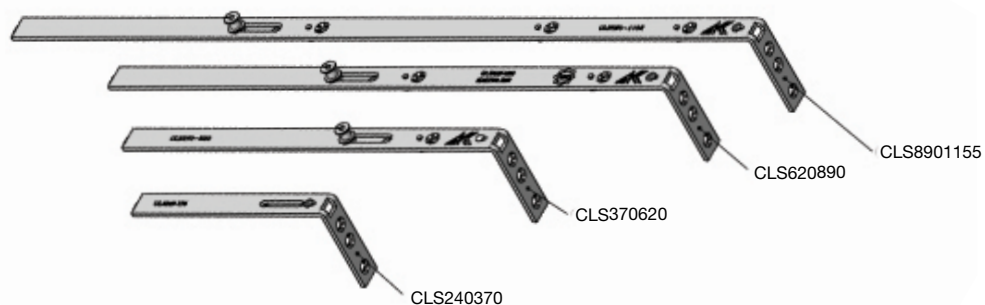
More information

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Lockcase dimensions



End detail



Kenrick Centurion Fast-Fit

Security shootbolt espagnolette

Suitable for:

PVCu



ALUMINIUM



TIMBER



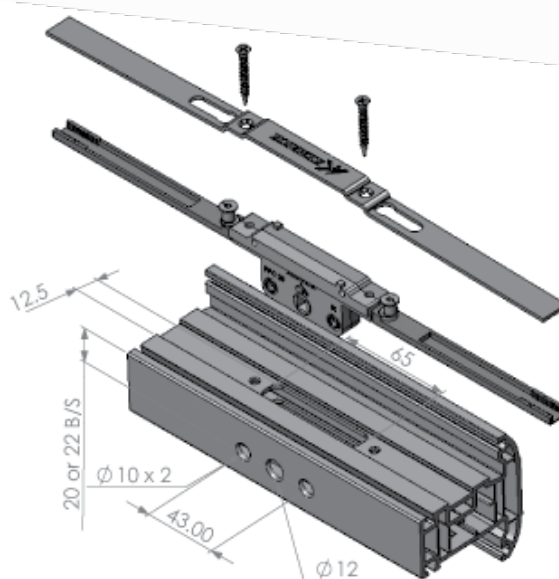
Centurion Fast-Fit is an adaptable locking system providing high levels of security while still remaining cost effective.

Available in various non-croppable lengths with two backsets and up to 8 locking points, Centurion Fast-Fit allows window fabricators of any size the opportunity to market a high value finished product at a cost effective price.

Features and Benefits

- Simple to install
- Steel shootbolts
- 4-8 Locking points
- Secure by Design Product
- Available in 20mm and 22mm backset gearbox
- Robust unhandled die-cast gearbox
- Non crop shootbolts
- Profile related keeps with night vent facility
- Tested to 100,000 cycles
- 10 year mechanical guarantee
- Minimum of 240 hours salt spray testing exceeding BSEN 1670:2007
- PAS24 Capable

Handle fixing and lockcase routing detail



Centurion Fast Fit Gear Box

Product Code	Gearbox Backset (mm)
CLSFF0020	20
CLSFF0022	22

Standard Extension Part Numbers (With Adjustable Mushroom Cams)

Product Code	Sash Rebate Size	Number of Locking Points
CLS240370	450-567	2
CLSFFBAR01	568-716	4
CLSFFBAR02	716-866	6
CLSFFBAR03	866-1016	6
CLSFFBAR04	1016-1170	6
CLSFFBAR05	1170-1320	8
CLSFFBAR06	1320-1466	8
CLSFFBAR07	1468-1608	8

Size range

450-1608mm

Manufactured from

Gearbox- Zinc
Extensions- Mild Steel
Striker- Zinc

Finish

Zinc plate

Performance

(Full test details available on request.)
Minimum of 240 hours salt spray testing exceeding BSEN 1670:2007

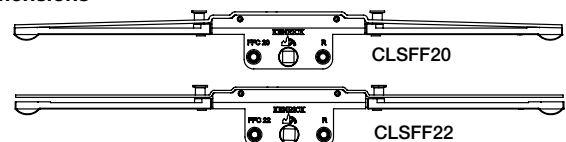
When ordering please specify:

1. Espagnolette type
2. Sash rebate
3. Backset size
4. Cam size
5. Profile name and number

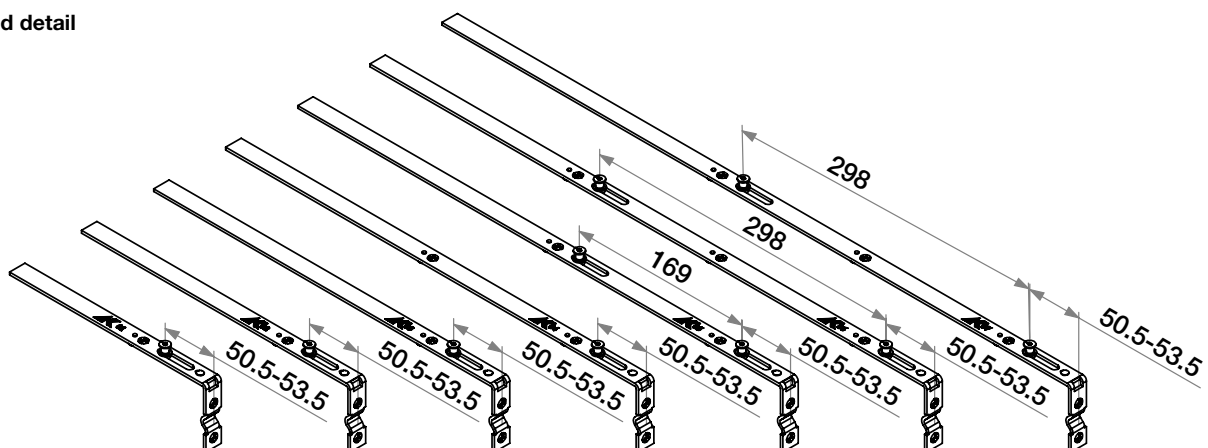
More information

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Lockcase dimensions



End detail



Venture

Friction hinge

Suitable for:

PVCu



ALUMINIUM



TIMBER

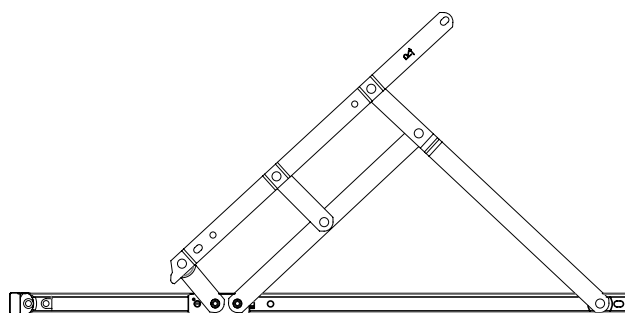


The Venture friction hinge range is suitable for domestic applications on side or top hung windows.

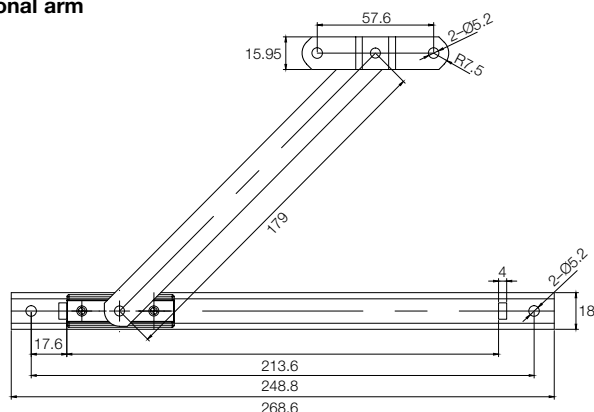
Venture has been developed by Titon's experienced window fittings team and is tested to the latest hardware standards. All Venture hinge dimensions and opening geometries have been calculated and designed to fit most window profiles.

There are a number of Lo and Hi Stack height versions in the range including top hung, side hung and Egress Easy-Clean.

The addition of the Tenure Hinge Security Guard means that the Venture hinge is capable of meeting the requirements of PAS 24 as part of a compliant window system.



Additional arm



Features and Benefits

- Suitable for domestic and light commercial applications
- Adjustable and controlled friction for smooth operation
- Lo and Hi Stack heights
- Secure by Design Product
- Designed to meet the requirements of PAS 24 as part of a compliant window system
- Austenitic stainless steel version available for high corrosion resistance - please contact us for the latest test results
- Egress Easy-Clean version
- Additional arm available
- Fully dimensioned technical sheet available for each hinge
- Free profile/selection suitability advice available from the Titon Technical Department



Tenure Hinge Security Guard for use with Venture friction hinges



Data sheets for each hinge size are available on request

Venture Side Hung

Lo-Stack	Hi-Stack	Hinge Size (")	Hinge Size (mm)	Max Sash Weight (kg)	Min Sash Width (mm)	Max Sash Width (mm)	Max Sash Height (mm)	Hinge Projection (mm)	Opening Angle (+/-2.5°)	Box Quantity (pairs)
TN5001	TN5024	10	260	18	260	380	1200	144	85	50
TN5002	TN5025	12	311	24	311	600	1600	122	86	25
TN5003	TN5026	16	414	26	414	700	1800	241	83	25

Venture Top Hung

Lo-Stack	Hi-Stack	Hinge Size (")	Hinge Size (mm)	Max Sash Weight (kg)	Min Sash Height (mm)	Max Sash Height (mm)	Max Sash Width (mm)	Hinge Projection (mm)	Opening Angle (+/-2.5°)	Box Quantity (pairs)
TN5004	TN5018	8	210	10	210	300	1200	82	64	50
TN5005	TN5019	10	260	16	260	450	1400	121	57	50
TN5006	TN5020	12	311	21	311	600	1600	172	64	25
TN5007	TN5021	16	414	22	414	750	1800	162	50	25
TN5008	TN5022	20	514	24	514	900	2000	144	42	25
TN5009*	TN5023*	24	616	50	616	1500	2000	144	38	25

Venture Egress Easy-Clean Side Hung**

Lo-Stack	Hi-Stack	Hinge Size (")	Hinge Size (mm)	Max Sash Weight (kg)	Min Sash Width (mm)	Max Sash Width (mm)	Max Sash Height (mm)	Initial Hinge Projection (mm)	Easy Clean Projection (mm)	Opening Angle (+/-2.5°)
TN5032	TN5033	12	321	18	321	600	1400	42	121	80
TN5012	TN5029	16	443	21	443	650	1600	48	240	85

Bottom Hinge Packer 6-7 degrees

Product Code	Length (mm)
TY212	305
TY216	408

Venture additional arm (used to provide additional friction and limit window opening)

Product Code	Arm Length (")	Arm Length (mm)	Box Quantity (Pairs)
TN5030	10 nominal	270	25

Tenure Hinge Guard (4 of required for window)

Product Code	Stack Height (mm)	Box Quantity
TN5034 (1 Hinge Guard)	Lo-Stack	100
TN5035 (1 Hinge Guard)	Hi-Stack	100

All operating parameters are indicative and will vary according to window profile design and operating characteristics. Larger hinges may require an additional arm to achieve maximum performance.

* Window restricted to 15° to pass clause 5.2.2 "Racking Class 3" when tested in accordance with BS 6375-2:2009

** Compliance to Approved Document 'B' is the window manufacturer's responsibility

Manufactured from

Ferritic stainless steel

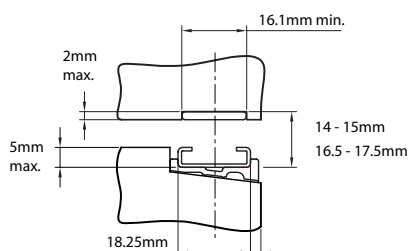
Performance

Tested to 25,000 cycles (hinge only)

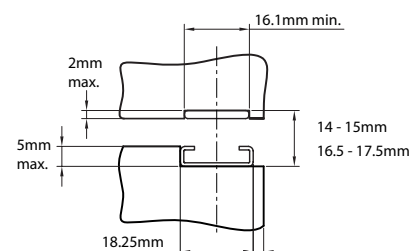
More information

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Venture with bottom hinge packer section details



Venture section details



Adventure

Heavy duty friction hinge

Suitable for:

PVCu



ALUMINIUM



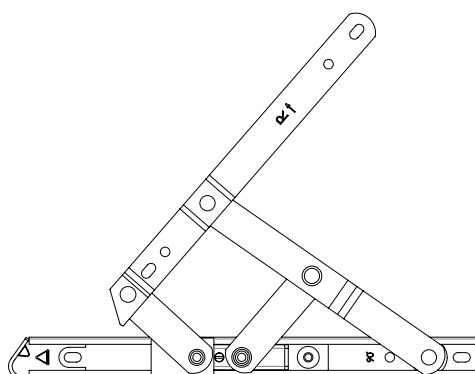
TIMBER



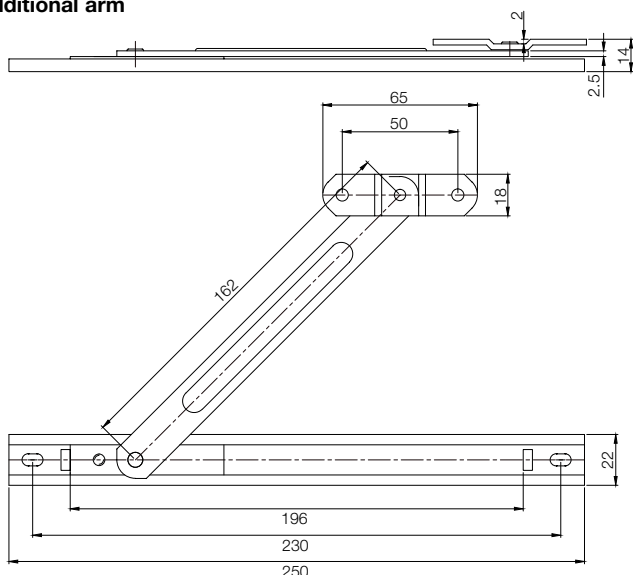
The Adventure friction hinge is suitable for many commercial or heavy sash domestic applications on side or top hung windows.

Adventure has been developed by Titon's experienced window fittings team and is tested to the latest hardware standards. All Adventure hinge dimensions and opening geometries have been calculated and designed to provide solutions on most window profiles.

The range is manufactured from high grade SS304 austenitic stainless steel, including the enclosed metal end cap, fitted for added strength compared to a standard hinge.



Additional arm



Features and Benefits

- Suitable for larger, heavier sashes or commercial applications
- Adjustable and controlled friction for smooth operation
- 16mm stack height
- Secure by Design Product
- Made from austenitic stainless steel for high corrosion resistance
- Additional arm available
- Fully dimensioned technical sheet available for each hinge
- Free profile/section suitability advice available from the Titon Technical Department



Tenure Hinge Security Guard for use with Adventure Heavy Duty friction hinges



Data sheets for each hinge size are available on request

Adventure Side Hung

Code	Hinge Size (")	Hinge Size (mm)	Max Sash Weight (kg)	Opening Angle (+/-2.5°)	Min Sash Width (mm)	Max Sash Width (mm)	Max Sash Height (mm)	Box Quantity (pairs)
TN5013A	10	271	34.5	83/50	271	660	1800	25
TN5014A	16	414	32/42/42	90/50/30	414	762	2000	25

Adventure Top Hung

Code	Hinge Size (")	Hinge Size (mm)	Max Sash Weight (kg)	Opening Angle (+/-2.5°)	Min Sash Height (mm)	Max Sash Height (mm)	Max Sash Width (mm)	Box Quantity (pairs)
TN5013A	10	271	50	50	271	650	2000	25
TN5014A	16	414	55/100 ¹	50/30 ¹	414	800	2000	25
TN5015A	22	570	80/100 ²	45/20 ²	570	1500	2000	10
TN5016A	26	690	120/150 ³	20/10 ³	690	2500	2000	10

Additional Arm (used to provide additional friction and limit window opening)

Code	Arm Length (")	Arm Length (mm)	Box Quantity
TN5031A	10 nominal	250	25

Tenure Hinge Guard (4 off required for window)

Code	Stack Height (mm)	Box Quantity
TN5035 (1 Hinge Guard)	16 Stack	100

All operating parameters are indicative and will vary according to window profile design and operating characteristics. Larger hinges may require an additional arm to achieve maximum performance.

*Restricted to 15° to pass clause 5.5 "Resistance to repeated opening and closing"

Class 2 when tested in accordance with BS 6375-2:2009

¹ Sash weight of 55kg to limit of 100kg, opening must be restricted to 30° using integral limit stop

² Sash weight of 80kg to limit of 100kg, opening must be restricted to 20° using integral limit stop

³ Sash weight of 120kg to limit of 150kg, opening must be restricted to 10° using 2 x additional stay TN5031 or similar

NOTE: The above are general minimum requirements, further limitations may be found necessary following customer trials/tests on their specific application.

Integral stops are not suitable for use as a safety restrictor.

Manufactured from

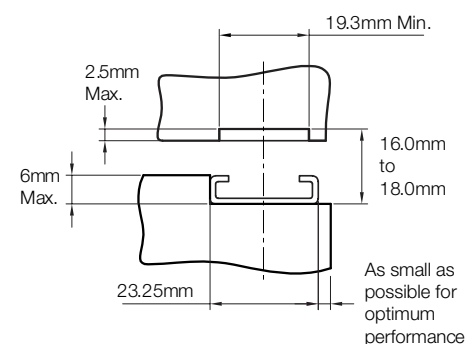
Austenitic stainless steel (hinge only)

More information

export@titon.com / 01206 713801

Performance

Please contact us for the latest test results.

Adventure section details

Alliance Cam Catch

Cam catch

Suitable for:

PVCu



TIMBER



Alliance is a security cam catch capable of achieving PAS 24 (dependent on window design), with a front facing lock.

Alliance is suitable for all vertical sliding windows made from PVCu or timber and has various flat and cast keep designs suitable for all profiles. Available in a variety of plated or painted finishes.



Alliance with cast keep

Features and Benefits

- 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
- Available in painted or plated finishes



Pressed steel keep



Cast keep



Cam catch - white paint

Product	Product Code
Alliance Cam Catch – non-locking	TL100DM
Alliance Cam Catch – key locking	TL100
Standard Cast Keep	TL120
Wide Cast Keep	TL121
17mm Pressed Steel Keep	TL122
30.5mm Pressed Steel Keep	TL124
38mm Pressed Steel Keep	TL125

Manufactured from

Zinc Alloy to BS EN 1774 ZL3

Recommended screws

4mm (No.8) countersunk head or equivalent

Standards

Please contact us for the latest test results.

Finishes

Suffix product code with:

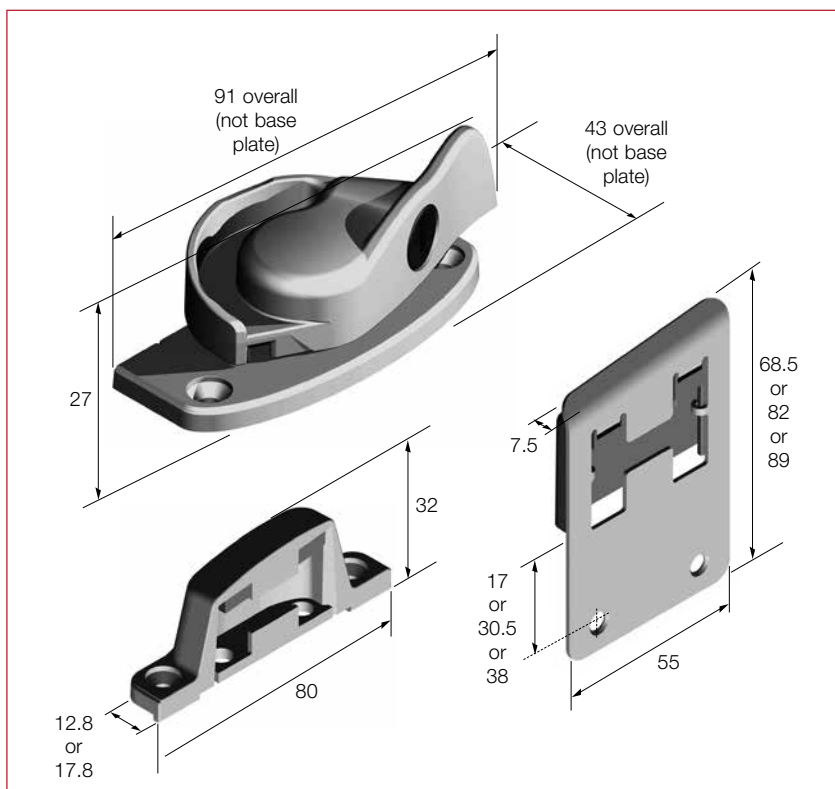
-020 (white paint), -818 (bright nickel), -102 (albratin gold), K-023 (brown paint), -825 (satin chrome)

NOTE: Plated finishes are not suitable for use in coastal or highly corrosive environments.

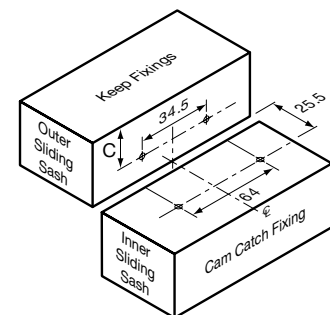
More information

export@titon.com / 01206 713801

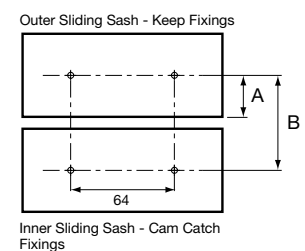
Cast Keep			Pressed Metal Keeps	
Product	A'	B'	Product	C'
Standard Cast Keep	4.5	30	17mm Pressed Steel Keep	17
Wide Cast Keep	9.5	35	30.5mm Pressed Steel Keep	30.5
			38mm Pressed Steel Keep	38



Pressed steel keep



Cast keep



Capture

Window safety restrictor

Suitable for:

PVCu



ALUMINIUM



TIMBER



Capture is an automatically engaging spring-loaded window safety restrictor for use on side and top hung windows to limit opening. Capture is supplied in austenitic steel.

Various pin heights are available to suit all cavity sizes and can be retrofitted.



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 for improved corrosion resistance
- Suitable for aluminium, PVCu and Timber windows (left and right hand versions)
- Can be used on windows without reinforcement



Product	Product Code
Capture Restrictor LH Austenitic	TN1121
Capture Restrictor RH Austenitic	TN1120
Capture Restrictor Pin 9.5mm Austenitic	TN1122
Capture Restrictor Pin 10.5mm Austenitic	TN1123
Capture Restrictor Pin 11.5mm Austenitic	TN1124
Capture Restrictor Pin 14.5mm Austenitic	TN1125
Capture Restrictor Pin 16.5mm Austenitic	TN1126

Manufactured from

Austenitic stainless steel 304 to BS EN 10088-2
Grade 1.4301

Recommended screws

Designed to accept a maximum screw diameter
Ø4.8mm with a maximum head diameter Ø8mm

NOTE: All screws must be stainless steel

Performance

Please contact us for the latest test results.

Finishes

Natural

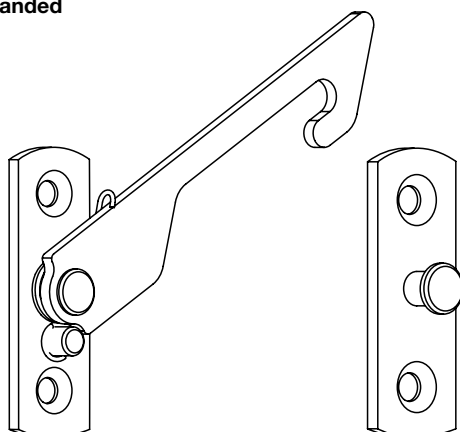
Standards

Tested in accordance with BS 6375 Part 2:2009
BS EN 1670 Grade 4

More information

export@titon.com / 01206 713801

Right handed



Reflex

Face mounted cable safety restrictor



Tamper resistant

Suitable for:

PVCu



ALUMINIUM



TIMBER



The Reflex face mounted cable safety restrictor has been designed with the intention to prevent people from inadvertently falling out of windows.

Reflex is suitable for windows of all materials, inward and outward opening. There are three variations available:

1. Push to release
 2. Key to release
 3. Tamper resistant
- Variation requires the use of the Pin Torx key to release (supplied separately).

NOTE: It is the responsibility of the duty holder to decide the suitability of product.



Push to release

Features and Benefits

- Suitable for all window materials
- Suitable for inward and outward opening windows
- Three variations available
- Fully tested to BS and BS EN standards (see overleaf)
- White and black finishes
- Special lengths and colours available
- Ideal for retrofit applications



Key to release



Pin Torx key

Product	Product Code	
	White	Black
Reflex Key to Release Cable Window Restrictor	FEN165FSL/544	FEN165FSL/543
Reflex Push to Release Cable Window Restrictor	FEN165FSN/544	FEN165FSN/543
Reflex Tamper Resistant Cable Window Restrictor	FEN165FST/5440	FEN165FST/543
Reflex 'Key to Release' Replacement Key	FEN165FSLKEY	
Reflex 'Pin-Torx' Replacement Key	FEN165FSTKEY	

Manufactured from

Zinc castings. Steel cable & stainless steel bullet

Recommended screws

For timber – the longest & widest diameter possible depending on window section

For PVCu – 4.8mm peel pop rivets stainless steel

For aluminium – no. 8 x 16 BZP, CSK self drilling

Standards

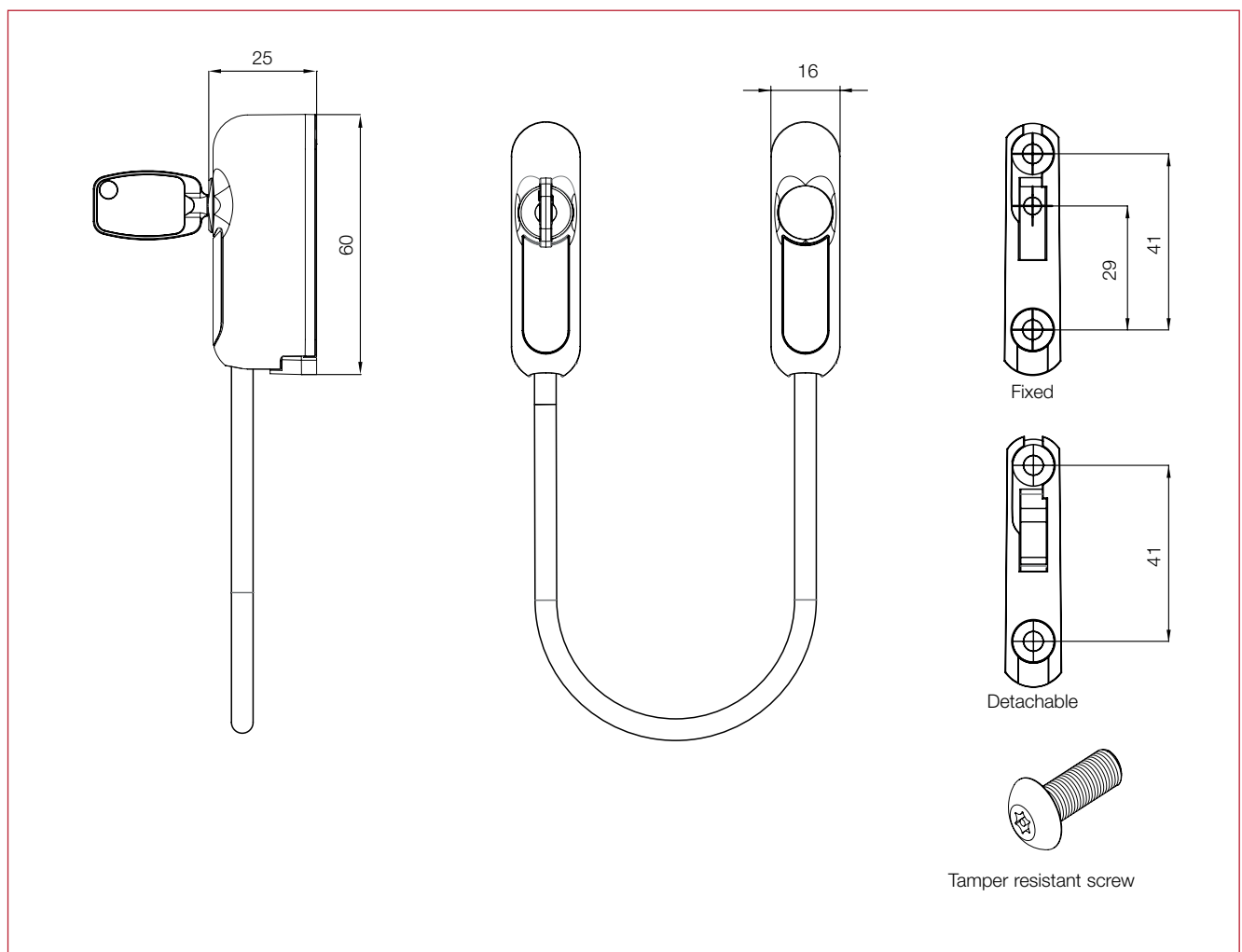
Tested in accordance with DD CEN/TS 13126-5:2004 and BS 6375 Part 2:2004

Finishes

Available in the following finishes, suffix product code with -543 (Black), -544 (White). Other finishes available on request.

More information

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Flex

Safety restrictor

Suitable for:

PVCu



ALUMINIUM



TIMBER



Flex is a face mounted cable restrictor device suitable for doors and windows.

The Flex safety restrictor can be fitted to all window sections and materials that are both inward and outward opening. The Flex restrictor has a dead lock button which can be blocked against accidental release by using the key supplied.

NOTE: It is the responsibility of the Duty Holder to decide the suitability of product.

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 with no failure



Product	Product Code
Flex Restrictor 200mm	FEN200

Manufactured from

Zinc castings. Steel cable & stainless steel bullet

Recommended screws

For timber – the longest & widest diameter possible depending on window section
For PVCu – 4.8mm peel pop rivets stainless steel
For aluminium – no. 8 x 16 BZP, CSK self drilling

Finishes

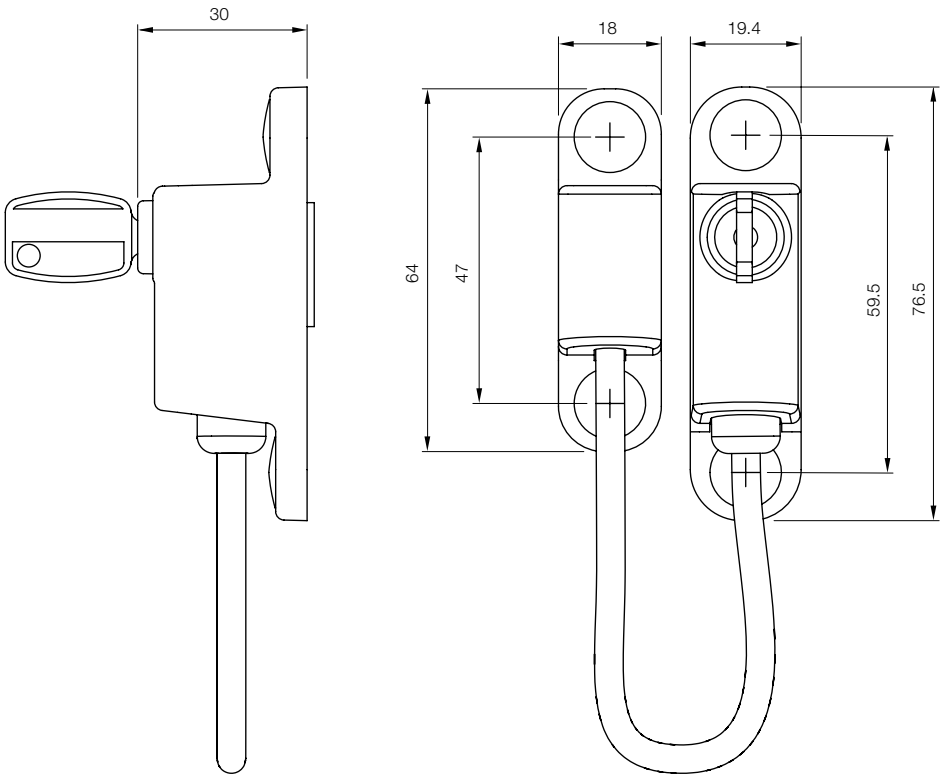
Available in the following finishes, suffix product code with -543 (Black), -544 (White)
Other finishes available on request (will have black cable & screw covers)

More information

export@titon.com / 01206 713801

Standards

Tested in accordance with BS 6375 Part 2:2004



Door Hardware

Titon offers a number of sophisticated door lock combinations for timber or PVCu doors, in single or double door versions.

All feature dead bolts as standard and, in addition, security is heightened by mushroom, finger and hook bolts.

Many configurations are available; please phone for technical advice on specific application issues.





Door Hardware

Maco C-TS	140
Maco C-TS Module	142
Maco Z-TA Automatic and Comfort	144
Kenrick Excalibur	146
Kenrick Timber Composite	148
Asterion 3-Star Cylinder	150
Overture DH	152
Overture DH Stainless Steel	154
Genesis	156
Genesis Accessories	157
Revelation	158
Overture Door Accessories	160
Overture FH	162
Sobinco Products	164

Amendments to the product range are made on ongoing basis to meet changing market demands. For the most up to date information, please go to www.titon.com.

Kenrick Excalibur

Multi-point door locks

Suitable for:

PVCu



ALUMINIUM



The Excalibur multipoint door lock system is designed to meet the most rigorous standards for security.

Excalibur door lock features three hooks and two steel anti lift bolts as standard. Smooth operation and correct compression is ensured by three adjustable roller cams.



Features and Benefits

- Secure by Design product
- PAS24 capable
- 35mm backset
- 16mm faceplate
- Twin spindle 62/92mm and lever/lever
- Sprung gear box
- Non-Handed
- Latch snib
- Three hook and two anti-lift bolts
- Three roller cams with compression adjustment
- Extendable with shootbolts
- Additional 300mm extensions
- Slave lock option
- Keeps available in single or multi piece variants
- Alignment marks for ease of fitting
- Tested to 100,000 cycles
- Minimum of 240 hours salt spray testing - BSEN 1670:2007
- 10 year mechanical guarantee



Cam

Adjustable cam for compression

Hook

For optimum security

Striker plates

Profile specific with compression adjustment

Manufactured from

Mild steel with zinc components

Striker - Steel with zinc plastic components

Standards

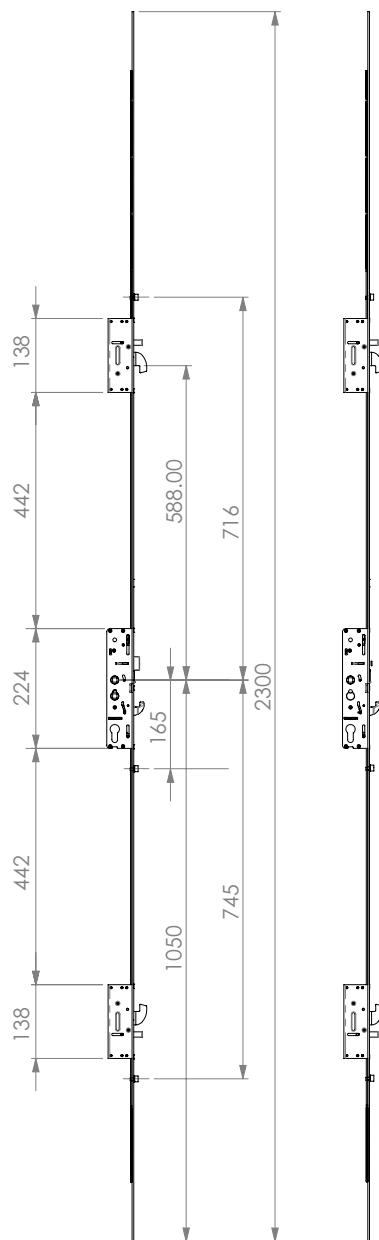
PAS 24 capable

240 hours salt spray testing - BSEN 1670:2007

More information

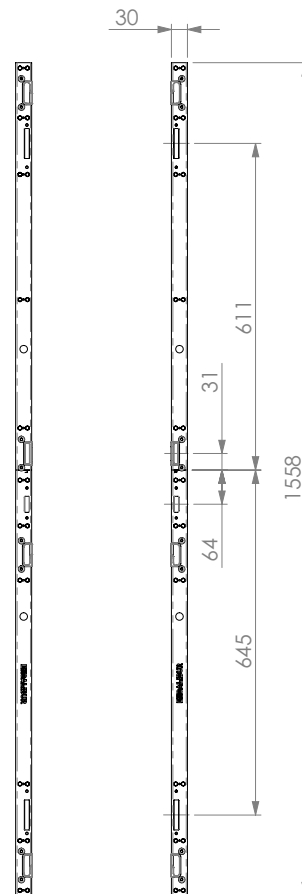
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Example door lock configurations



EXDL33
Twin Follower
(Lever - Pad)

EXDL33SBP
Single Follower
(Lever - Lever)



EXD33OPLH
Left Hand
One Piece
Door Keep

EXD33OPRH
Right Hand
One Piece
Door Keep

Kenrick Timber Composite

Door Locks

Suitable for:

TIMBER



COMPOSITE



The Timber composite multipoint door lock system is designed to meet the most rigorous standards for security.

It features three hooks as standard, alignment marks for ease of fitting, a sprung gearbox and is suitable for both timber and composite doors.



Features and Benefits

- Secure by Design product
- PAS24 capable
- 45mm backset
- 20mm wide faceplate
- Twin spindle 62/92mm
- Sprung gearbox
- Three hooks
- Fully retractable
- Adjustable keeps
- Bi directional claws
- Radius end faceplate
- Non-handed
- Latch snib
- Alignment marks for ease of fitting
- Tested to 100,000 cycles
- Minimum of 240 hours salt spray testing - BSEN 1670:2007
- 10 year mechanical guarantee



Hook

For optimum security

Striker plates

Designed for timber and composite applications

Manufactured from

Mild steel with zinc components

Standards

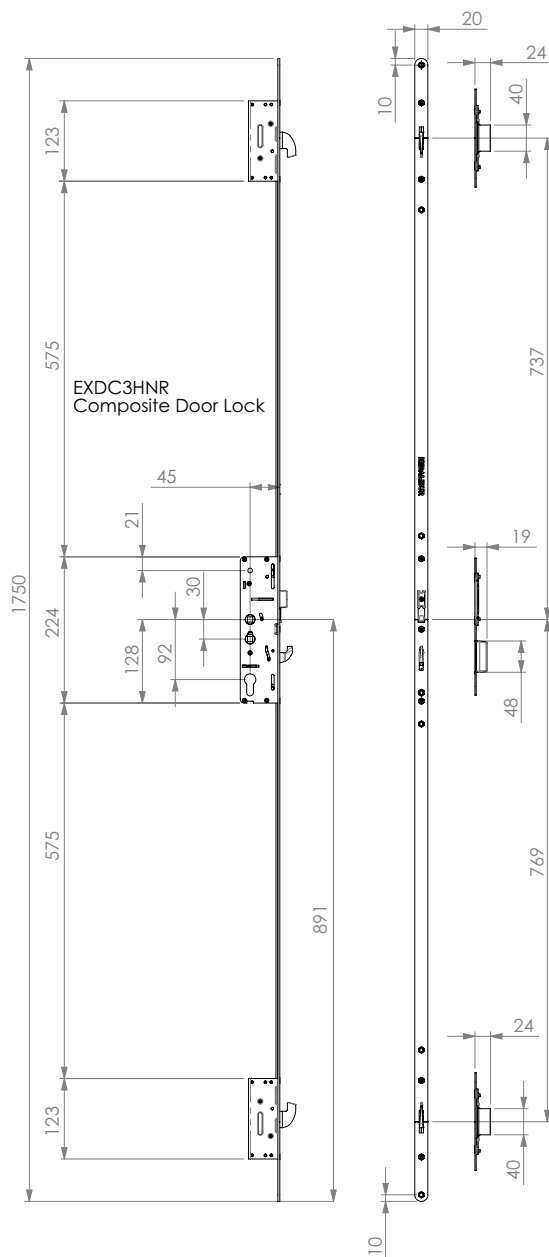
PAS 24 capable

240 hours salt spray testing - BSEN 1670:2007

More information

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Example door lock configurations



Asterion 3-Star Cylinder

Profile cylinders

Suitable for:

PVCu



ALUMINIUM



TIMBER



or composite doors

The Asterion 3-Star anti-manipulation profile cylinder is TS007 Kitemarked 3-Star in line with DHF (Door & Hardware Federation) and GGF (Glass & Glazing Federation) requirements. It therefore assists in compliance with Building Regulations Approved Document Q – Security – Dwellings. It has also been awarded Secured by Design (SBD) status, having gained national Police approval for providing a realistic level of resistance to criminal attack.

The anti-manipulation security features include a sacrificial break slot designed to snap off when forced, making it more difficult to gain a grip of the cylinder under attack.

Asterion 3-Star has a high security 6 pin cylinder mechanism and comes with 5 keys as standard. It is designed to withstand 5 types of attack: Anti drill, Anti pick, Anti bump, Anti snap, Anti screw and plug retraction.



Features and Benefits

- Kitemarked to TS007 3-Star rating
- Designed to attain PAS 24 with standard handles
- Secured by Design police preferred specification product
- Tested to BS EN 1303:2005
- Six pin
- Available in sizes nominal 74mm to 110mm
- Supplied with five keys as standard
- Available options:
 - Double cylinder
 - Cylinder and turn
 - Keyed alike
 - Master keying possible
- Satin Nickel Plate or Satin Brass finish
- BSI Kitemark number 631878



KM 631878
BS EN 1303:2005

Product	Cylinder Dimensions (mm)			Product Size Description
	A (Overall)	B (External)	C (Internal)	
Double Cylinder	74	37	37	Double Cyl 74 (37 Int / 37 Ext)
	80	40	40	Double Cyl 80 (40 Int / 40 Ext)
	85	45	40	Double Cyl 85 (40 Int / 45 Ext)
		40	45	Double Cyl 85 (45 Int / 40 Ext)
	87	50	37	Double Cyl 87 (37 Int / 50 Ext)
		37	50	Double Cyl 87 (50 Int / 37 Ext)
	90	45	45	Double Cyl 90 (45 Int / 45 Ext)
		50	40	Double Cyl 90 (40 Int / 50 Ext)
		40	50	Double Cyl 90 (50 Int / 40 Ext)
		50	45	Double Cyl 95 (45 Int / 50 Ext)
	95	45	50	Double Cyl 95 (50 Int / 45 Ext)
		55	40	Double Cyl 95 (40 Int / 55 Ext)
		40	55	Double Cyl 95 (55 Int / 40 Ext)
	97	37	60	Double Cyl 97 (37 Int / 60 Ext)
		50	50	Double Cyl 100 (50 Int / 50 Ext)
	100	60	40	Double Cyl 100 (40 Int / 60 Ext)
		55	45	Double Cyl 100 (45 Int / 55 Ext)
		40	60	Double Cyl 100 (60 Int / 40 Ext)
		45	55	Double Cyl 100 (55 Int / 45 Ext)
Cylinder & Turn	74	37	37	Turn Cyl 74 (37 Int / 37 Ext)
	80	40	40	Turn Cyl 80 (40 Int / 40 Ext)
	85	45	40	Turn Cyl 85 (40 Int / 45 Ext)
		40	45	Turn Cyl 85 (45 Int / 40 Ext)
	87	50	37	Turn Cyl 87 (37 Int / 50 Ext)
		37	50	Turn Cyl 87 (50 Int / 37 Ext)
	90	45	45	Turn Cyl 90 (45 Int / 45 Ext)
		50	40	Turn Cyl 90 (40 Int / 50 Ext)
		40	50	Turn Cyl 90 (50 Int / 40 Ext)
		50	45	Turn Cyl 95 (45 Int / 50 Ext)
	95	45	50	Turn Cyl 95 (50 Int / 45 Ext)
		55	40	Turn Cyl 95 (40 Int / 55 Ext)
		40	55	Turn Cyl 95 (55 Int / 40 Ext)
		50	50	Turn Cyl 100 (50 Int / 50 Ext)
	100	60	40	Turn Cyl 100 (40 Int / 60 Ext)
		40	60	Turn Cyl 100 (60 Int / 40 Ext)
		55	45	Turn Cyl 100 (45 Int / 55 Ext)
		45	55	Turn Cyl 100 (55 Int / 45 Ext)

Other sizes available on request. Blank key option available – TN6200

Manufactured from

Brass & stainless steel
Hardened steel anti drill pins

Finishes

Satin nickel plate
Satin brass

Recommended screws

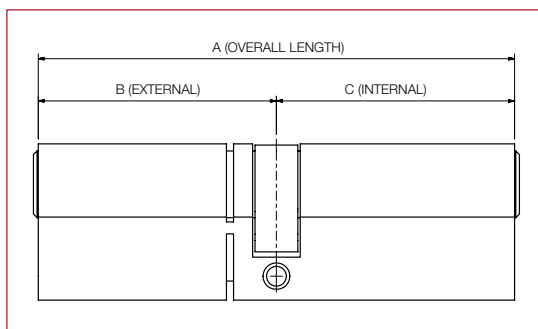
M5 x 45mm machine screws supplied

More information

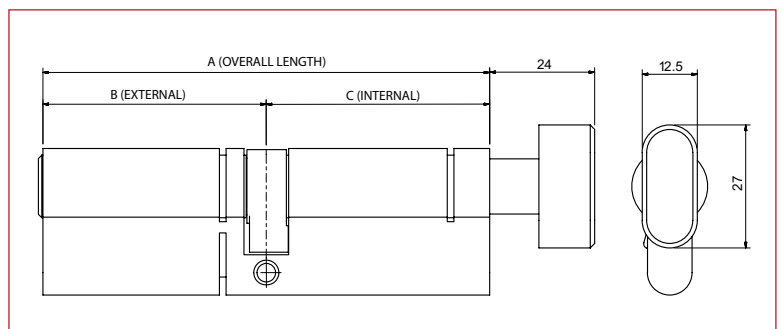
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Standards

BS EN 1303:2005 and TS007 3-Star rating



Astorian double cylinder



Astorian cylinder and turn

Overture DH

Lever door handle range

Suitable for:

PVCu



ALUMINIUM



TIMBER



or composite doors

A high performance range of zinc and aluminium door handles suited with Overture E window handles. Available in sprung lever/lever and lever/pad variations.



Features and Benefits

- Tested to over 100,000 cycles
- All finishes tested in excess of 240 hours salt spray testing
- Short (211.5mm) and long (240mm) baseplate options
- Sprung handles
- Supplied with two spindle lengths and two screw lengths as standard
- Each pair individually packaged
- Colour coordinated screw heads



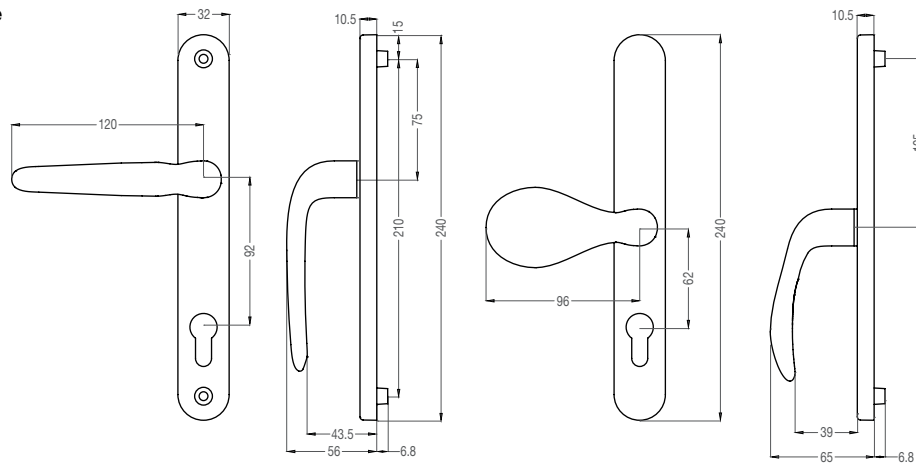
Product	Door Width (mm)	Product Code	
		Zinc DH-Z	Aluminium DH-A
Overture DH-Z or DH-A 210 L1/L1 (Door Handle Short Baseplate Lever1/Lever1)	40-70	TN8100	TN8104
Overture DH-Z or DH-A 210 L1/P1 (Door Handle Short Baseplate Lever1/Pad1*)	40-70	TN8101	TN8105
Overture DH-Z or DH-A 240 L1/L1 (Door Handle Long Baseplate Lever1/Lever1)	40-70	TN8102	TN8106
Overture DH-Z or DH-A 240 L1/P1 (Door Handle Long Baseplate Lever1/Pad1**)	40-70	TN8103	TN8107

* Split Spindle - Door lock specific spindle may be require

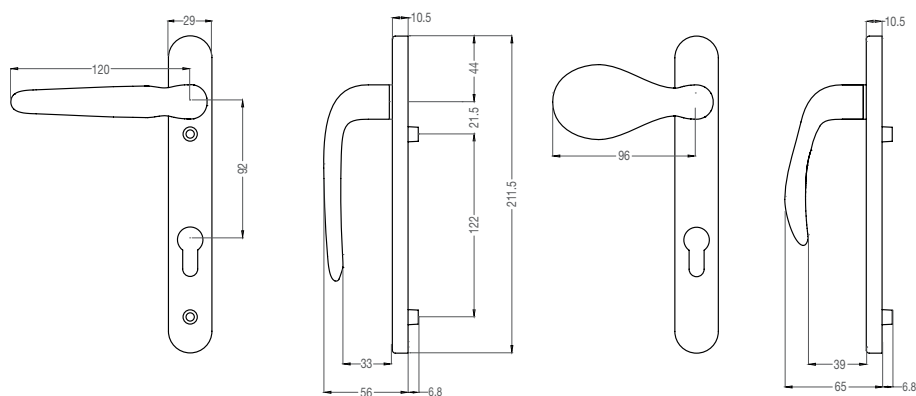
** Offset Spindle

NB: Reduction of spindle and/or screws may be required to achieve the full door width range

Long baseplate



Short baseplate



Manufactured from

Die cast aluminium

Die cast zinc

Recommended screws

Salt spray tested to 240 hours (BS EN1670 Grade 3)

Cycle tested to 100,000 cycles as per EN1906: 2002

Finishes

NOTE: Not all products are available in all finishes listed below.

Please contact us for availability. Suffix product code with:

-020 (White Paint), -102 (PVD Gold), -812 (Polished Chrome),
-825 (Satin Chrome), -009 (Dark Chrome)

More information

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Overture DH Stainless Steel

Lever door handle range

Suitable for:

PVCu



ALUMINIUM



TIMBER



or composite doors

A high performance range of stainless steel door handles suited with Overture E window handles. Available in sprung lever/lever and lever/pad variations.



Features and Benefits

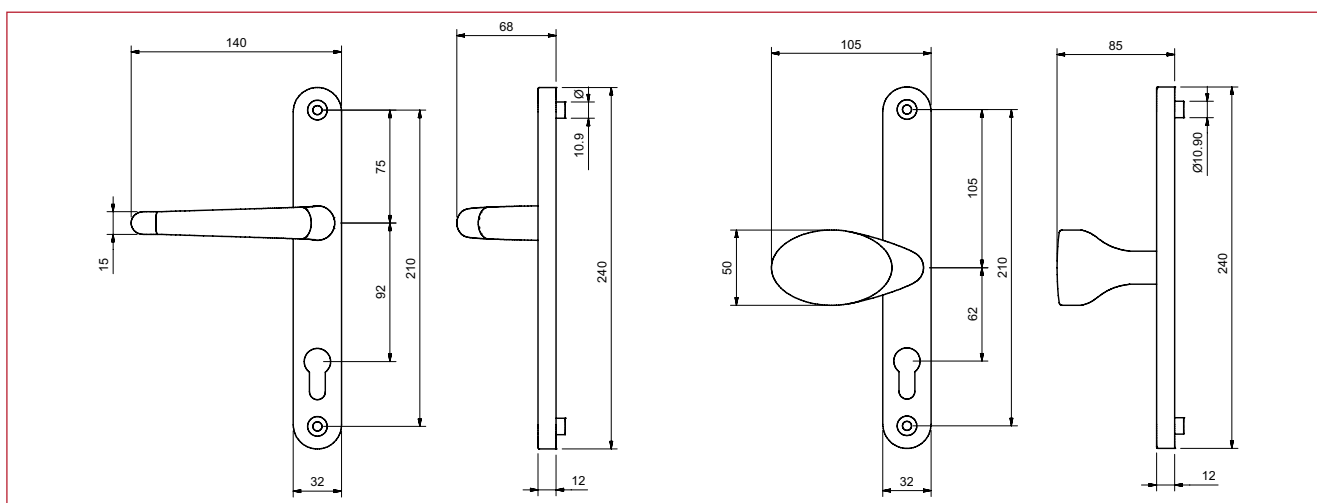
- Tested to over 100,000 cycles
- All finishes tested in excess of 480 hours salt spray testing
- Long (240mm) baseplate
- Sprung handles
- Supplied with two spindle lengths for 44mm and 70mm doors and two screw lengths as standard
- Available in lever/lever and lever/pad variations
- Each pair individually packaged
- Colour coordinated screw heads
- Stainless steel 304
- 10-year corrosion and mechanical guarantee



Product	Door Width (mm)	Product Code
		Stainless Steel - 304
Overture SS L2/L2 (Door Handle Long Baseplate Lever2/Lever2)	40-70	TN8108
Overture SS L2/P2 (Door Handle Long Baseplate Lever2/Pad2*)	40-70*	TN8109

NB: Reduction of spindle and/or screws may be required to achieve the full door width range

Door Thickness (mm)	Product Code
44	TN 8003/099
70	TN 8004/009



Manufactured from

Stainless steel 304
Zinc alloy cradle

Recommended screws

BS EN 1670 Grade 5 (480 hours)
Cycle tested to 100,000 cycles as per EN1906: 2002

Finishes

NOTE: Not all products are available in all finishes listed below.
Please contact us for availability.
Suffix product code with: -102 (PVD Gold), -812 (Polished Chrome), -825 (Satin Chrome)

More information

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Genesis

Intermediate locking handle for Bi-Fold doors

Suitable for:

ALUMINIUM



Features and Benefits

- Premium product
- Can be used without the requirement for additional "D" handles
- 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
- Non-locking option
- 13mm deep base-plate option

Gearbox

- Small dimensions
- 2 x 7mm detachable packers included
- Optional "prep" cover



43mm fixing centres



Gearbox



Features and Benefits

Intermediate Hinges

- 2 x clamping machine screws
- 2 x final-fix self-tapping screws
- Profile location nibs
- Fewer components than competitor hinges
- Clamping plates grub screw fix to profiles for transportation
- Black or white options
- Special colours/finishes possible
- "D" handle option

Locking Components

- Threaded lock rods
- Various nylon rod ends to suit popular systems
- Optional end guides

Roller Sets

- Integral shroud for dust protection and aesthetics
- High quality needle roller bearings
- Strong cast construction
- Black or white options
- Special colours/finishes possible
- Adjustable or non-adjustable versions

Roller sets



Intermediate hinges



Locking components



Revelation

3-in-1 handle, hinge & lock for Bi-Fold doors

Suitable for:

PVCu



ALUMINIUM



TIMBER



The Revelation handle offers 3-in-1 functionality in a single piece of kit, replacing a “D” handle hinge, a key-lockable mechanism to secure panels and a foldable interior handle for better leverage when opening or closing bi-fold doors.

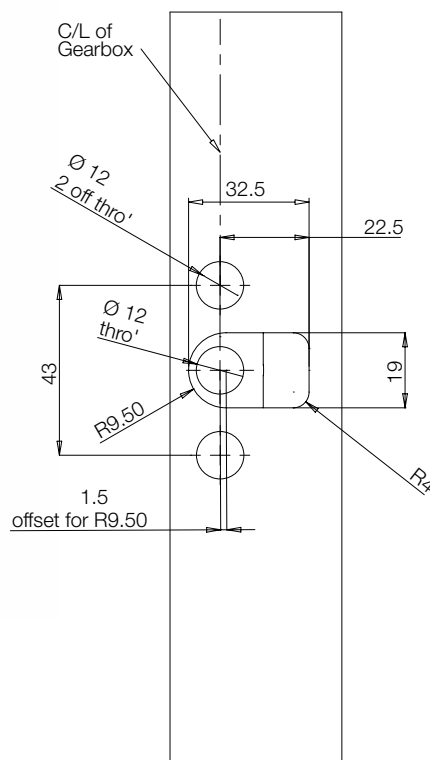
This bi-fold door hardware eliminates the need for intermediate pendulum handles and lock cylinders, for clean lines and appearance to your internal bi-folding door, quicker installation time and reduced hardware costs.



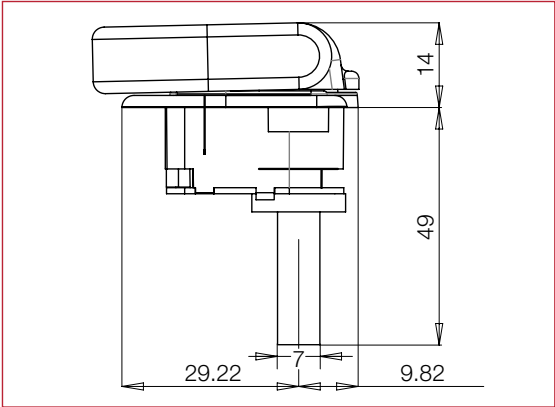
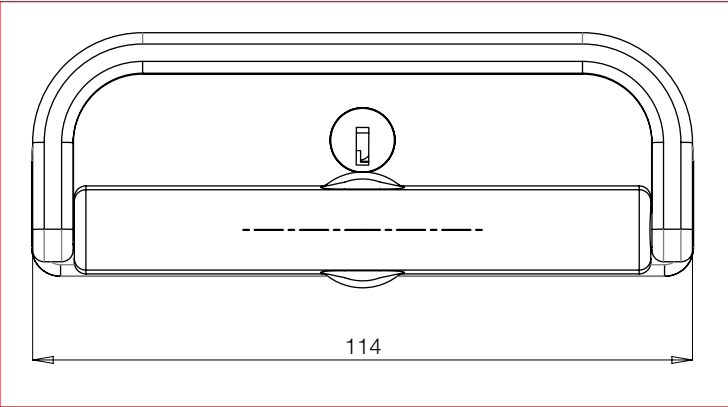
Features and Benefits

- Multi functional
- Eliminates the need for a “D” style hinge pull
- Robust
- Patent applied for
- Allows for single handed door closing and shootbolt locking
- Unique design
- Standard fixing/spindle centres to suit most lockcases
- A range of standard colours/finishes
- Fixing screws and spindle included

Routing detail



Base Type	Chrome Grip	Satin Chrome Grip	Stainless Steel Look Grip	Black Grip	9010 White Grip	9910 HIPCA Grip	7016 Matt Grip
Black Base	REVBKCH	REVBKSC	REVBKST	REVBK9005			
9010 White Base	REV9010CH	REV9010SC	REV9010ST	REVV9010			
9910 HIPCA Base	REV9910CH	REV9910SC	REV9910ST	REVV9910			
7016 Matt Base	REV7016CH	REV7016SC	REV7016ST	REV7016M			



Overture Door Accessories

Door fittings

Suitable for:

PVCu



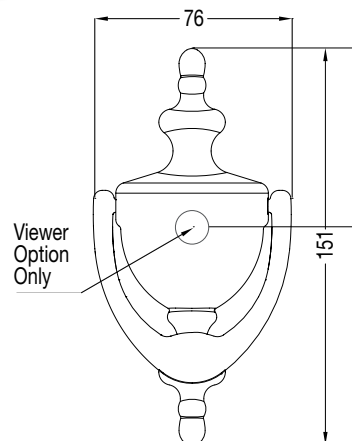
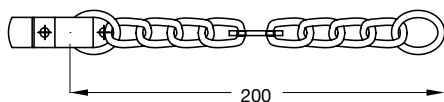
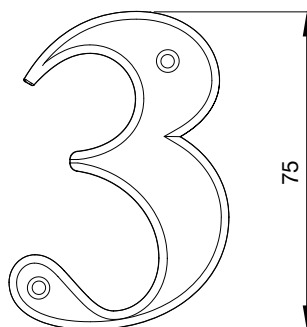
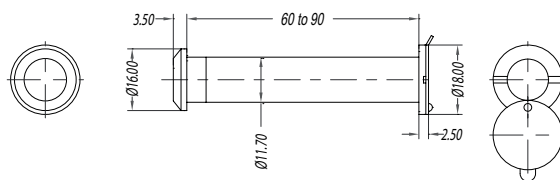
TIMBER



or composite doors

A suited range of door furniture for all door materials including: high quality letter plate, door knocker, numerals, viewers and door chain.

Designed to be used in conjunction with the Overture DH door handle range, hinges and locks.

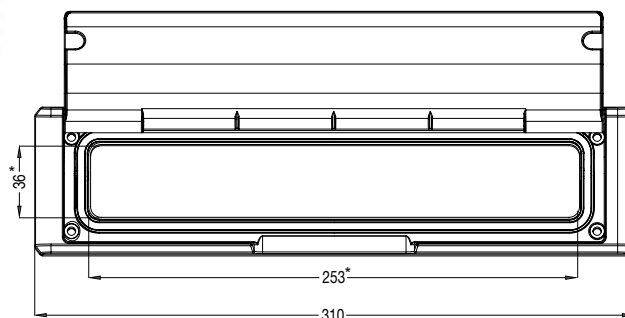


Features and Benefits

Fully suited range includes:

- Overture Door Knockers - Urn design door knockers with or without aperture for Overture V Door Viewer
- Overture V Door Viewers - Viewers of different lengths, with minimum view angle of 120° precision optical glass with cover. Viewers are adjustable to fit doors 35mm to 90mm thick
- Overture Letter Plate - High quality letter plate
- Overture Door Chain - Acts as a visible deterrent, enables conversation without allowing access to visitors
- Overture Numerals - Range of numerals and letters
- External fittings, in all finishes, tested to a minimum of 240 hours salt spray

Product	Product Code	
Overture LP Set (Letter Plate Inner & Outer)	TN8200	
Overture DK Urn V (Door Knocker with viewer hole)	TN8300	
Overture DK Urn (Door Knocker without viewer hole)	TN8301	
Overture V (Door Viewer) 35mm-60mm	TN8303	
Overture V (Door Viewer) 60mm-90mm	TN8302	
Overture N (Numeral(s) & Letters)	'0' - TN8409	'1' - TN8400
	'2' - TN8401	'3' - TN8402
	'4' - TN8403	'5' - TN8404
	'6' - TN8405	'7' - TN8406
	'8' - TN8407	'9' - TN8408
	'A' - TN8410 'B	'B' - TN8411
Overture SC (Door Chain) TN8500	TN8500	



*Refer to fixing instructions for exact routing detail

Manufactured from

Zinc or Aluminium

Standards

Salt spray tested to 240 hours (BS EN1670 Grade 3)
Letter Plate – Cycle tested to 50,000cycles

Finishes

NOTE: Not all products are available in all finishes listed below. Please contact us for availability. Suffix product code with:
-020 (White Paint) , -102 (PVD Gold) , -812 (Polished Chrome),
-825 (Satin Chrome), -002 (Black Paint), -009 (Dark Chrome)

More information

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Overture FH

Flag hinge

Suitable for:

PVCu

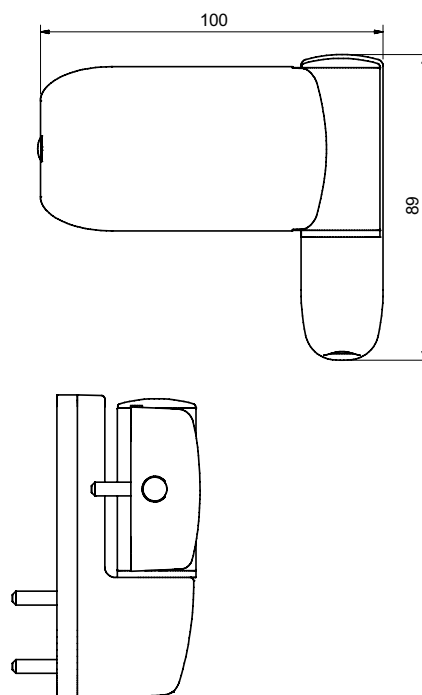
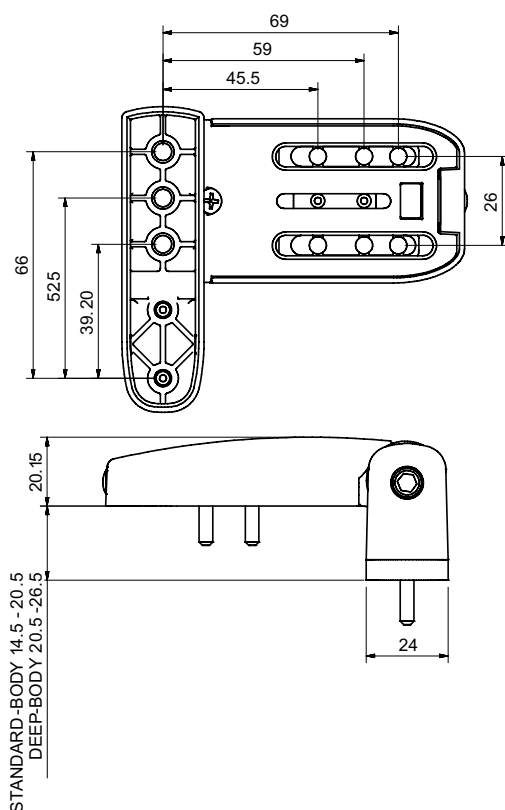


Overture flag hinge jig



Features and Benefits

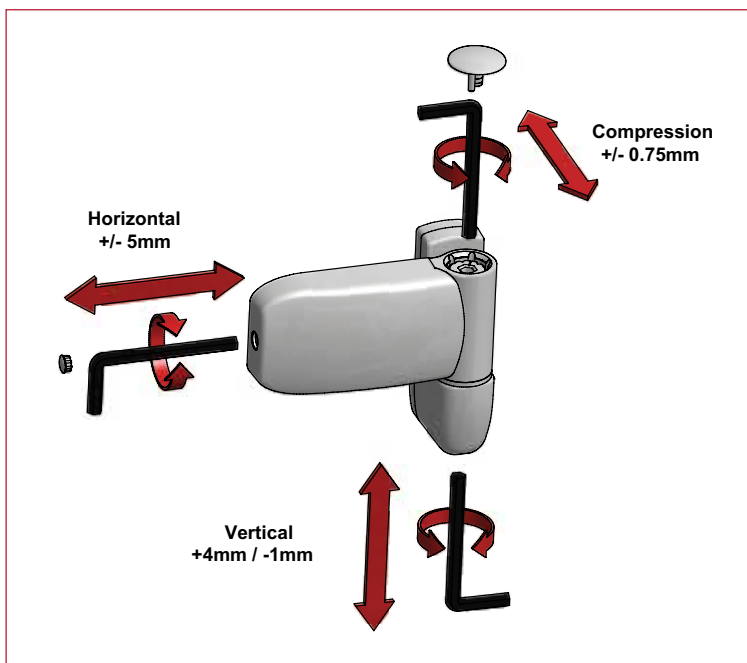
- Designed specifically for PVCu door applications
- 3D adjustability:
Lateral +5mm / -5mm
Height +4mm / -1mm
Compression +0.75mm / -0.75mm
- Accommodate profiles with a step of 14.5mm – 26.5mm
- Standard and deep body options available
- Stainless steel stabilising pins locate into the reinforcement providing enhanced security
- Non-handed. Suitable for inward and outward opening doors
- Secure cover plate
- Fixing jig available
- Designed to meet the requirements of PAS 24 as part of a compliant door system
- Supplied with fixing screws (Fixing Screws 4.8 x 29mm & Fixing Screws 4.8 x 45mm)
- Packed in 24 off/box in trays
- Spares packed with cover screw top and side caps



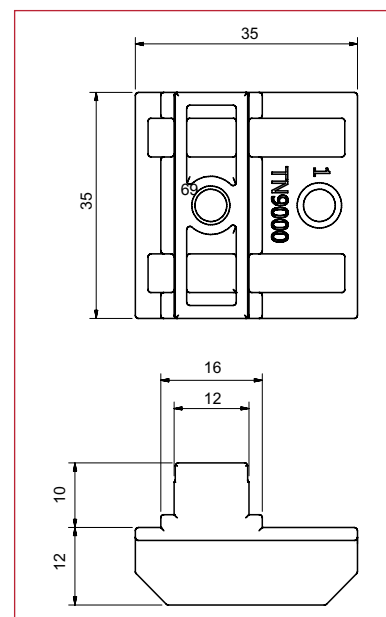
Product Code	Product
TN9100	Standard Body
TN9200	Deep Body

Product Code	Finishes
020	White
002	Black
763	Light Oak (RAL 8001)
965	Dark Brown (RAL 8019)
825	Satin Chrome
812	Polished Chrome
102	PVD Gold

Product Code	Part Number
TN9400-020	Spares Pack Pk 10 – White
TN9400-002	Spares Pack Pk 10 – Black
TN9400-763	Spares Pack Pk 10 – Light Oak
TN9400-965	Spares Pack Pk 10 – Dark Brown
TN9300	Flag Hinge Drill Jig
TN9000-010	Security Anti-Lift Block



Security anti-lift block



Manufactured from

Stainless steel SS 430
Die cast zinc
Plastic moulded nylon

More information

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Performance

BS EN 1670 Grade 4 (240 hours)
50,000 cycles with 3 hinges carrying 120kg

Product Care & Maintenance

To ensure Titon products continue to work effectively, it is important to ensure they are installed correctly and 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.

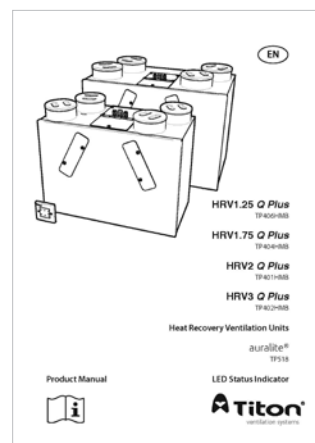
Hinges and locking devices should be lubricated after cleaning with a light machine oil or grease with an acid free lubricant, such as petroleum jelly.

Powered ventilation products require regular servicing by a qualified engineer.

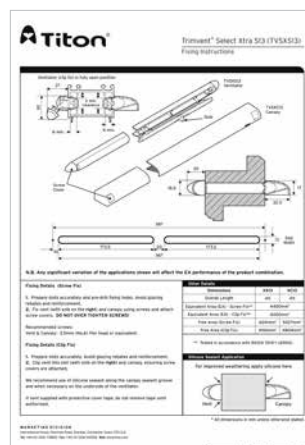
For specific details of how to care for your Titon product, visit the Titon website. Each product has a documentation section which, if relevant, includes instructions for installing, operating or maintaining each product.

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 customer's responsibility to ensure product suitability in any application.



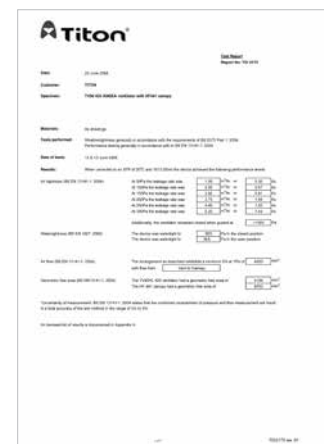
Product manuals



Instruction sheets



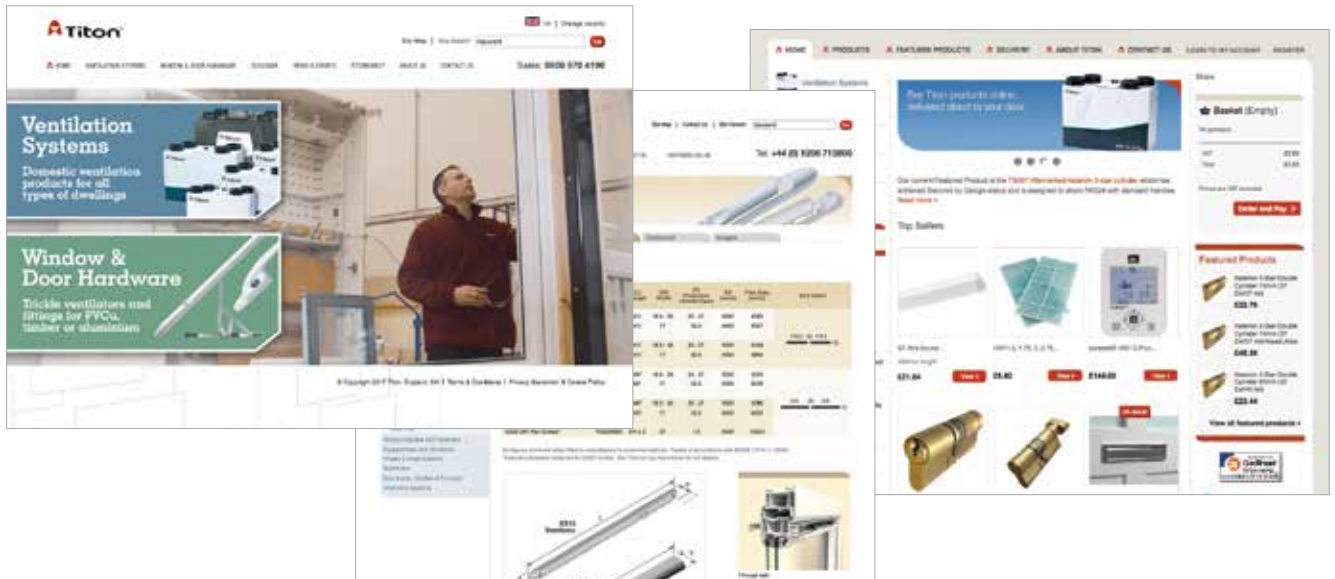
Guarantees



Test reports

Further Information

If you require more details on Titon's products and services please, go to www.titon.com. The 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.



To subscribe to Titon email updates go to www.titon.com/subscribe

To try out the various security hardware combinations available – and discover which products can be grouped together to achieve PAS 24 status, go to www.titonarea24.co.uk

To purchase online, please go to www.titondirect.com for a range of products and accessories.

For information and advice regarding toxic home syndrome and poor indoor air quality go to www.myhealthmyhome.com

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

For Government information on Building Regulations in England & Wales, go to www.communities.gov.uk and search for 'Building Regulations'

For Scottish Technical Standards, go to www.scotland.gov.uk/Topics/Built-Environment/Building/Building-standards

For more information on new home building and NHBC Guides, visit the NHBC foundation www.nhbcfoundation.org

For information on BEAMA, the trade associations representing the energy and power industry go to www.beama.org.uk

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

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

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

Ventilation Systems



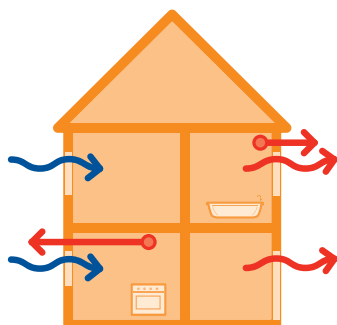
Domestic ventilation products for all types of dwellings

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.

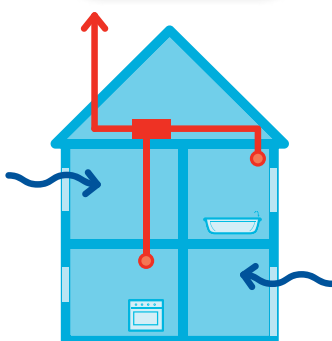
We have a fully trained and experienced team which specialises in domestic ventilation. They work with house builders and developers, as well as local authorities and housing associations, to provide the right solution for any development to ensure it complies with Part F (Ventilation) of the Building Regulations and other Technical Standards.

Titon offers products to comply with Part F:

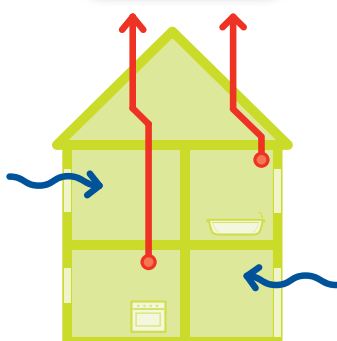
System 1



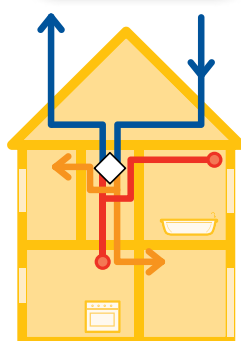
System 3



System 2



System 4



Contact: ventsales@titon.co.uk



894 The Crescent, Colchester Business Park, Colchester CO4 9YQ

Tel: +44 (0)1206 713801

Email: export@titon.com Web: www.titon.com

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