



# PVCu Window & Door Hardware & Ancillaries

Issue 2





# Always at your side - the VBH Enhanced Service Package

## More products. More brands. More choice.

Simply everything you need to manufacture and install windows and doors is available from VBH. By 'everything' we mean that our products deliver everything you would expect in terms of quality. This means you have access to the most comprehensive, and consistently high quality range in the sector.

Everything simple, from the very first conversation through to everyday contact, from good, old fashioned face-to-face meetings to the use of modern communications. At VBH, the people are there to help you, going about our work in a helpful and friendly way. Our modern communication tools are designed for maximum efficiency and reliability, so that you can concentrate on the essentials: Your customers.

The expert brand for window and door hardware is always there for you. We are with you on the road to success. Benefit from our efficient working practices and profit from our staff's expert knowledge. Put simply, you can expect a good deal more from us than from ordinary suppliers. Rely on the VBH Enhanced Service Package - at any time.



## Single & Double Door Hardware



Door Locks (Manual)	04 - 17	Door Hinges	42 - 49
Door Locks (Electronic)	18 - 21	Profile Cylinders	50 - 53
Electric Latches	22	Letterboxes	54 - 55
Stable Door Locks	23	Door Furniture & Accessories	56 - 60
Door Handles (Lever)	24 - 36	Door Restrictors & Security Items	61 - 62
Door Handles (Pull) & Escutcheons	37 - 41	Door Closers	63
		Emergency Exit Hardware	64 - 69

## Patio Door Hardware



Bi-Fold Hardware	70 - 78
Bi-Fold/Tilt & Slide Handles	79 - 81
Tilt & Slide Hardware	82 - 86
Inline Slider Hardware & Handles	87 - 89

## Outward Opening and Tilt & Turn Window Hardware



Enhanced Security Locking Systems	92 - 94	Cockspur Handles	110 - 111
Shootbolts	95 - 98	Friction Stays	112 - 116
Espagnolettes	99 - 100	Friction Stay Security Devices	117
French Casement Window Gear	101 - 102	Restrictors	118 - 121
Espagnolette Handles	104 - 108	Tilt & Turn	122 - 123
		Tilt & Turn Handles	124 - 127

## Fanlight Gear



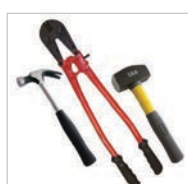
Manual Winding Gear	128
Folding Openers (Cam Stays)	129 - 132

## Ventilation



Slot Vents	134 - 138
Glazed-in Vents	139
Louvre Grilles	139

## Miscellaneous



Adhesives	140, 142, 143	Frame Repair Kit	143
Silicone & Acrylic	140	Lubricant	143
Welder Sheet	140	Glazing & Frame Packers	144
Fixing Foam & Cleaner	141	Hand Tools	145 - 148
Service Sets	142	Pet Doors	149
Frame Cleaner	142		

# Multi-Point Door Locks

## Maco

### C-TS Combined Lift/Lever & Split Spindle Door Locks

Lift/Lever - Split Spindle function

Features Hook/Cam combination locking points

D-Drive Technology

92PZ

Compact lockcases to minimise routing

PAS24:2012 security tested

Approved under Maco Secure Plus guarantee scheme

Available in Tricoat Plus for increased corrosion resistance

Description	FP Width/ Length (mm)	VBH Code	Box Qty
35mm BS 2 Hooks/4 Cams	16/2200	3CTS0001	5
45mm BS 2 Hooks/4 Cams	16/2200	3CTS0002	5
35mm BS 2 Hooks/2 Cams	16/2200	3CTS0003	5
45mm BS 2 Hooks/2 Cams	16/2200	3CTS0004	5
35mm BS 2 Hooks/2 Cams	16/1800	3CTS0005	5
45mm BS 2 Hooks/2 Cams	16/1800	3CTS0006	5
35mm BS 2 Hooks	16/2200	3CTS0007	5
45mm BS 2 Hooks	16/2200	3CTS0008	5
35mm BS 2 Hooks	20/2200	3CTS0027	5
45mm BS 2 Hooks	20/2200	3CTS0028	5

#### C-TS Split Spindle Packs\*

Description	VBH Code	Box Qty
Split Spindle Pack 45/50	3CTS0091	5
Split Spindle Pack 54/64	3CTS0092	5
Split Spindle Pack 64/64	3CTS0093	5

#### Strikers Required\*

Description	VBH Code	Box Qty
Latch/Deadbolt Plate LH or RH	3MDL - - - -	20
Hook Striker Plate	3MDL - - - -	20
Hook/Cam Striker Plate LH or RH	3CTS - - - -	20
Casement Striker	5MAC - - - -	200
or		
'IS' Mushroom Striker	5MAC - - - -	100

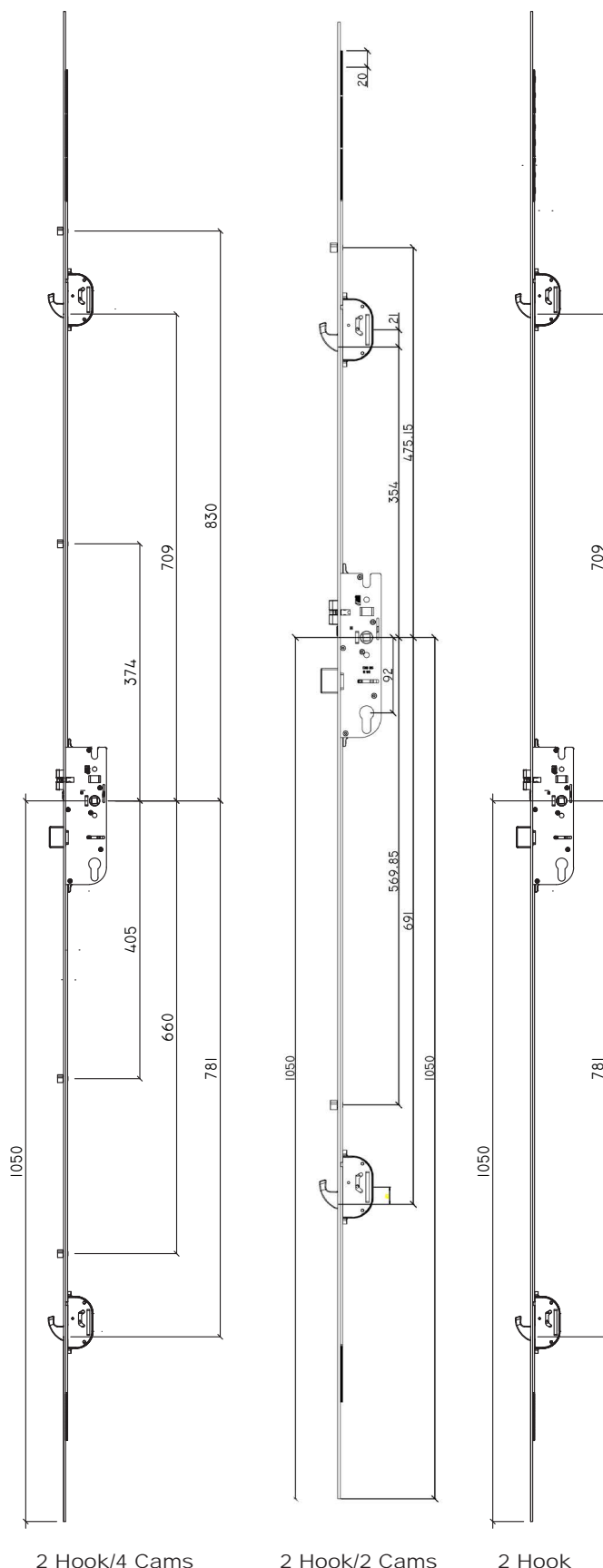
#### Double Door Passive Lock

Description	VBH Code	Box Qty
35BS 16FP/1500mm	3CTS0011	5
45BS 16FP/1500mm	3CTS0012	5

#### Vertical Shootbolts & Shootbolt Strikers\*

Description	VBH Code	Box Qty
300mm Straight Action c/w 'IS' Cam (Bottom)	3MDL4084	10
300mm Reverse Action c/w 'IS' Cam (Top)	3MDL4086	10
500mm Reverse Action c/w 'IS' Cam (Top)	3MDL4089	10
300mm Straight Action No Cam (Bottom)	3MDL4031	10
500mm Straight Action No Cam (Bottom)	3MDL4035	10
300mm Reverse Action No Cam (Top)	3MDL4033	10
500mm Reverse Action No Cam (Top)	3MDL4037	10
Single Slot Striker	3MDL - - - -	20
Double Slot Striker	3MDL - - - -	20

Striker plates are different to those used with existing Maco locks sold under the 3MDL prefix (e.g. G-TS, W-TS etc).  
\*Refer to VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification



2 Hook/4 Cams

2 Hook/2 Cams

2 Hook



# Multi-Point Door Locks - Automatic Maco

## Z-TA 3 Latch Door Lock with Automatic Locking

Locks automatically

Can be used manually or with Maco openDoor electronic access control 92PZ

Central latch and deadbolt, plus additional locking points as described below  
Top and bottom hooks locate automatically when adjacent latches hit striker plates

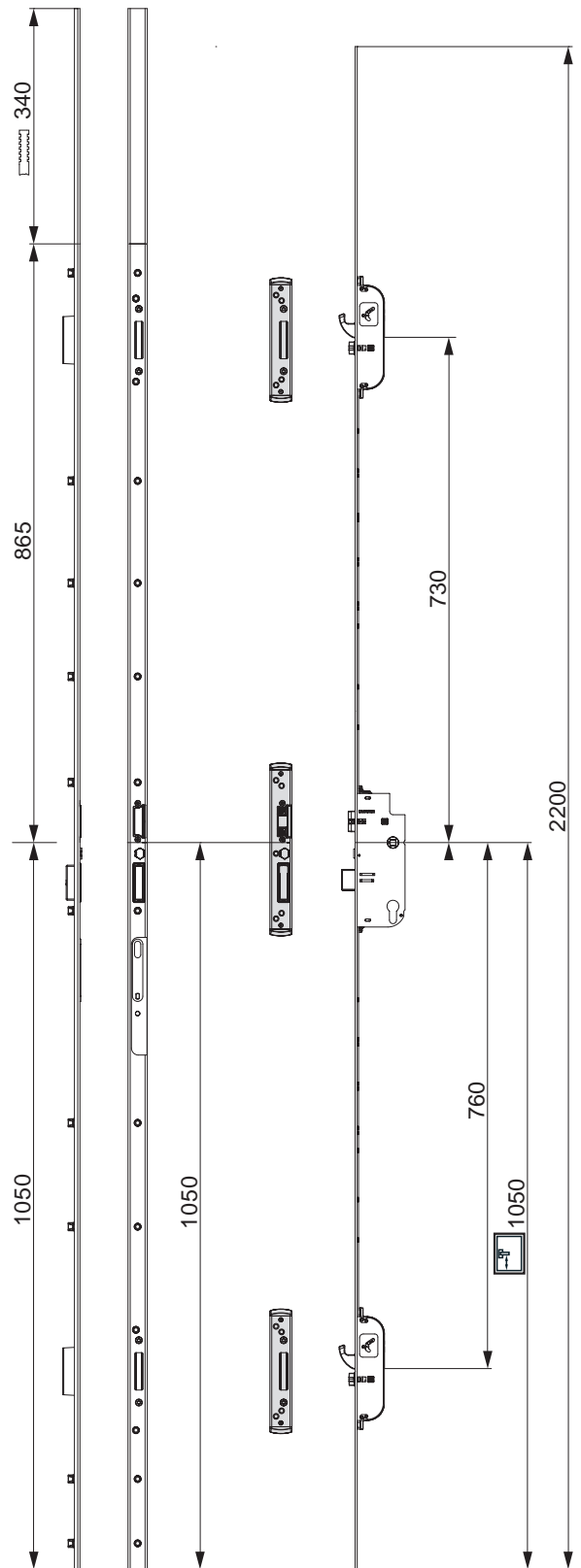
Available in Tricoat Plus for increased corrosion resistance

Description	VBH Code	Box Qty
35mm BS 16mm FP/ 2 Hooks	3ZTA0001	5
35mm BS 16/24mm Top Hat FP/ 2 Hooks	3ZTA0005	5
35mm BS 20mm Bull Nose FP/ 2 Hooks	3ZTA0007	5
45mm BS 20mm Bull Nose FP/ 2 Hooks	3ZTA0008	5

Striker plates are different to those used with Maco locks sold under the 3MDL & 3CTS prefixes (e.g. G-TS, W-TS, C-TS etc). Refer to the Maco Z-TA striker list on [www.vbhgb.com](http://www.vbhgb.com) for profile related strikers

### Example Order

- 1 x Z-TA Door Lock
- 1 x Z-TA Latch Plate (profile dependent)
- 2 x Z-TA MF-HO Strikers (profile dependent)



# Multi-Point Door Locks

## Yale - Stainless Steel

### Mantis 3 Premium - Unsprung Door Lock

Central latch and hook, 2 hook/deadbolt combinations and 2 cams  
Lift/Lever and Lever/Pad operation  
650mm lock case centres  
92/62PZ  
Stainless steel faceplate  
Use sprung handles

Description	VBH Code	Box Qty
35mm BS Door Lock	3MML0001	5

#### One-Piece Striker Plate Option

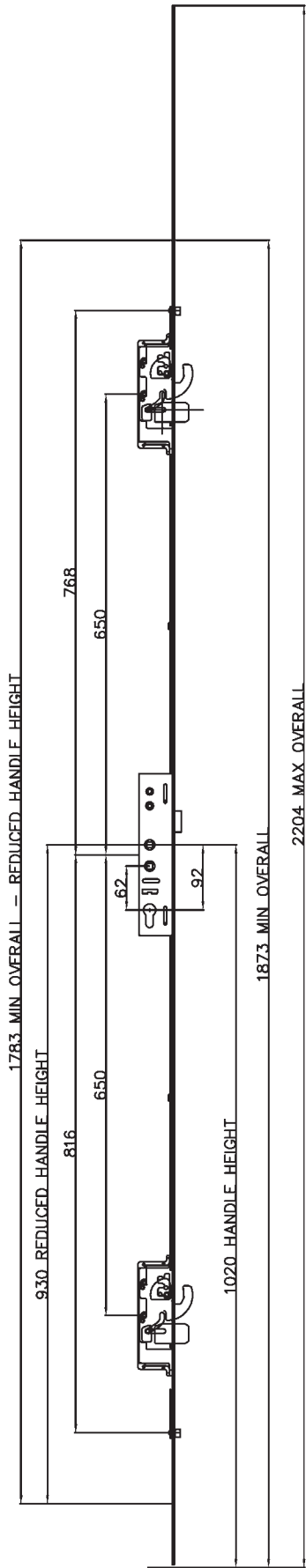
Description	LH	RH	Box Qty
Standard (11)	3MML0021	3MML0022	20
Security (11)	3MML0071	3MML0072	20

#### Multi-Keep Option

Description	LH	RH	Box Qty
Multi-Keep Set (9)	3MML0091	3MML0092	32

#### Profile Related Packers\*

Description	VBH Code	Box Qty
Profile Related Packer Black	3MML - - - -	100



\* Refer to VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related packer for your door. The quantity required is noted in the figure in brackets by each striker plate.

# Multi-Point Door Locks

## Yale - Stainless Steel

### Mantis 3 Premium - Unsprung Door Locks

Central latch and hook, 2 hook/deadbolt combinations  
 Lift/Lever and Lever/Pad operation  
 550mm lock case centres  
 92/62PZ  
 Stainless steel faceplate  
 Use sprung handles

Description	VBH Code	Box Qty
35mm BS Endable Door Lock	3MML0065	5
Shootbolt Pair (200mm Top & Btm)	3MML0040	25 Pr
Shootbolt Pair (200mm Top & 100mm Btm)	3MML0041	25 Pr
Sec Shootbolt Pr (150mm Top & 100mm Btm)	3MML0015	25 Pr

### One-Piece Striker Plate Option

Description	LH	RH	Box Qty
Standard (9)	3MML0025	3MML0026	20
Security (9)	3MML0075	3MML0076	20

### Multi-Keep Option

Description	LH	RH	Box Qty
Multi-Keep Set (7)	3MML0093	3MML0094	32

### Striker Plates for Vertical Shootbolts

Description	Standard	Security	Box Qty
Adj Single NO Dust Box (2)	3MML0016	N/A	200
Adj Single WITH Dust Box (2)	3MML0029	3MML0031	200
Adj Double NO Dust Box (3)	3MML0017	N/A	100
Adj Double WITH Dust Box (3)	3MML0030	-	100
Adj Double WITH Dust Box (2)	-	3MML0032	25Pr

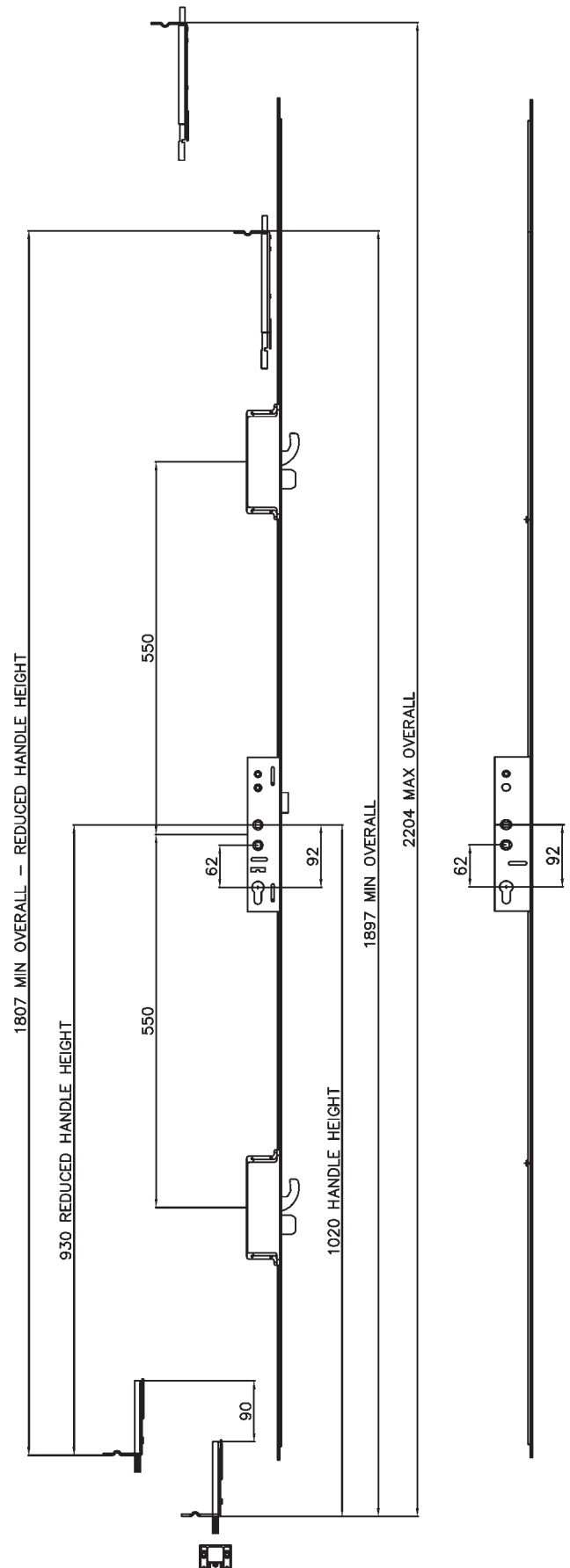
### Profile Related Packers\*

Description	VBH Code	Box Qty
Profile Related Packer Black	3MML - - -	100

### Stainless Steel Double Door Passive Solution

3MML0065 can be used on a single door or as an active door lock on a pair of double doors  
 The passive door lock below when used with shootbolts provides a twin-lock solution

Description	VBH Code	Box Qty
35mm BS Passive Door Lock 92/62PZ	3MML0067	5



\* Refer to VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related packer for your door. The quantity required is noted in the figure in brackets by each striker plate.

# Multi-Point Door Locks

## Yale

### Mantis 3 - Sprung and Unsprung Door Locks

Central latch, 2 hook/deadbolt combinations, 2 cams and a choice of central deadbolt or hook  
Lift/Lever (sprung) & Lever/Pad (unsprung) operation  
650mm lock case centres  
Triklad steel faceplate

#### Locks With Central Deadbolt

Description	VBH Code	Box Qty
35mm BS Sprung Door Lock 92PZ	3MML0107	5
45mm BS Unsprung Door Lock 92/62PZ	3MML0008	5

#### Lock With Central Hook

Description	VBH Code	Box Qty
35mm BS Unsprung Door Lock 92/62PZ	3MML0307	5

#### One-Piece Striker Plate Option

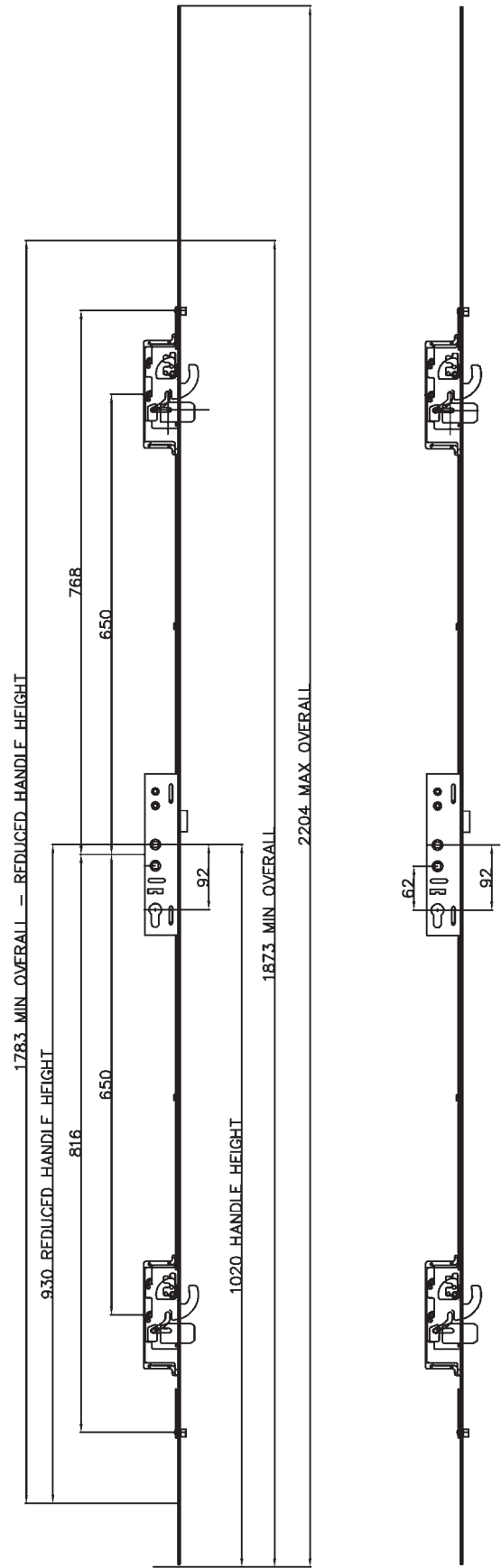
Description	LH	RH	Box Qty
Standard (11)	3MML0021	3MML0022	20
Security (11)	3MML0071	3MML0072	20

#### Multi-Keep Option

Description	LH	RH	Box Qty
Multi-Keep Set (9)	3MML0091	3MML0092	32

#### Profile Related Packers\*

Description	VBH Code	Box Qty
Profile Related Packer Black	3MML - - - -	100



\* Refer to VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related packer for your door. The quantity required is noted in the figure in brackets by each striker plate.



# Multi-Point Door Locks

## Yale

### Mantis 3 - Sprung and Unsprung Door Locks

Central latch, 2 hook/deadbolt combinations, 2 cams and a choice of central deadbolt or hook

Lift/Lever (sprung) & Lever/Pad (unsprung) operation

550mm lock case centres

Triklad steel faceplate

#### Lock With Central Deadbolt

Description	VBH Code	Box Qty
35mm BS Ek Sprung Door Lock 92PZ	3MML0103	5

#### Lock With Central Hook

Description	VBH Code	Box Qty
35mm BS Ek Unsprung Door Lock 92/62PZ	3MML0303	5

#### One-Piece Striker Plate Option\*\*

Description	LH	RH	Box Qty
Standard (11)	3MML0023	3MML0024	20

#### Multi-Keep Option

Description	LH	RH	Box Qty
Multi-Keep Set (9)	3MML0091	3MML0092	32

#### Vertical Shootbolts

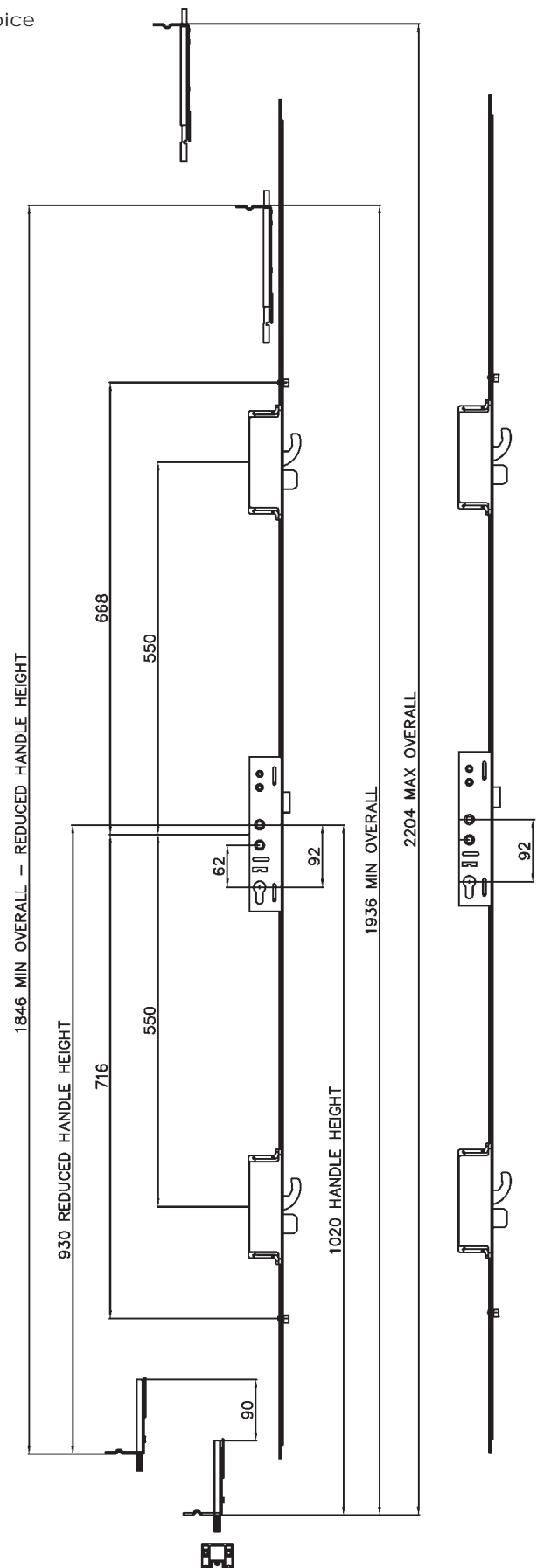
Description	VBH Code	Box Qty
Shootbolt Pair (200mm Top & Btm)	3MML0040	25 Pr
Shootbolt Pair (200mm Top & 100mm Btm)	3MML0041	25 Pr
Sec Shootbolt Pr (150mm Top & 100mm Btm)	3MML0015	25 Pr

#### Striker Plates for Vertical Shootbolts

Description	Standard	Security	Box Qty
Adj Single NO Dust Box (2)	3MML0016	N/A	200
Adj Single WITH Dust Box (2)	3MML0029	3MML0031	200
Adj Double NO Dust Box (3)	3MML0017	N/A	100
Adj Double WITH Dust Box (3)	3MML0030	-	100
Adj Double WITH Dust Box (2)	-	3MML0032	25Pr

#### Profile Related Packers\*

Description	VBH Code	Box Qty
Profile Related Packer Black	3MML - - - -	100



\* Refer to VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related packer for your door. The quantity required is noted in the figure in brackets by each striker plate.

\*\*If security keeps are required please use standard keeps with 2 x 3MML0100 keep plates

# Multi-Point Door Locks

## Yale

### Mantis 3 - Sprung and Unsprung Door Locks

Central latch, 2 hook/deadbolt combinations, 2 cams and a choice of central deadbolt or hook

Lift/Lever (sprung) & Lever/Pad (unsprung) operation

550mm lock case centres

Triklad steel faceplate

Lock With Central Deadbolt

Description	VBH Code	Box Qty
35mm BS Ek Sprung Door Lock 92PZ	3MML0113	5

Lock With Central Hook

Description	VBH Code	Box Qty
35mm BS Ek Unsprung Door Lock 92/62PZ	3MML0313	5

One-Piece Striker Plate Option

Description	LH	RH	Box Qty
Standard (9)	3MML0025	3MML0026	20
Security (9)	3MML0075	3MML0076	20

Multi-Keep Option

Description	LH	RH	Box Qty
Multi-Keep Set (7)	3MML0093	3MML0094	32

Vertical Shootbolts

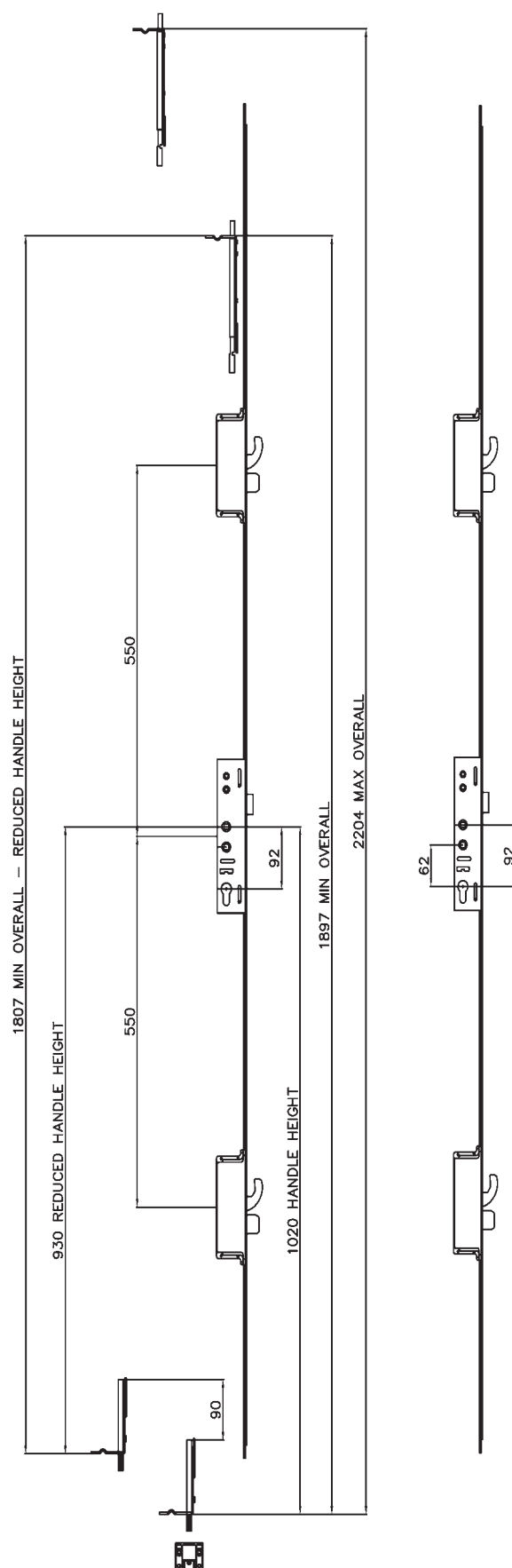
Description	VBH Code	Box Qty
Shootbolt Pair (200mm Top & Btm)	3MML0040	25 Pr
Shootbolt Pair (200mm Top & 100mm Btm)	3MML0041	25 Pr
Sec Shootbolt Pr (150mm Top & 100mm Btm)	3MML0015	25 Pr

Striker Plates for Vertical Shootbolts

Description	Standard	Security	Box Qty
Adj Single NO Dust Box (2)	3MML0016	N/A	200
Adj Single WITH Dust Box (2)	3MML0029	3MML0031	200
Adj Double NO Dust Box (3)	3MML0017	N/A	100
Adj Double WITH Dust Box (3)	3MML0030	-	100
Adj Double WITH Dust Box (2)	-	3MML0032	25Pr

**Profile Related Packers\***

Description	VBH Code	Box Qty
Profile Related Packer Black	3MML - - - -	100



\* Refer to VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related packer for your door. The quantity required is noted in the figure in brackets by each striker plate.

# Multi-Point Door Locks

## Yale

### Mantis 3 - Sprung and Unsprung Double Door Passive Gear

Lift/Lever (sprung) and Lever/Pad (unsprung) operation

End enable

Flat 16mm faceplate

Triklad steel faceplate

Use unsprung handles

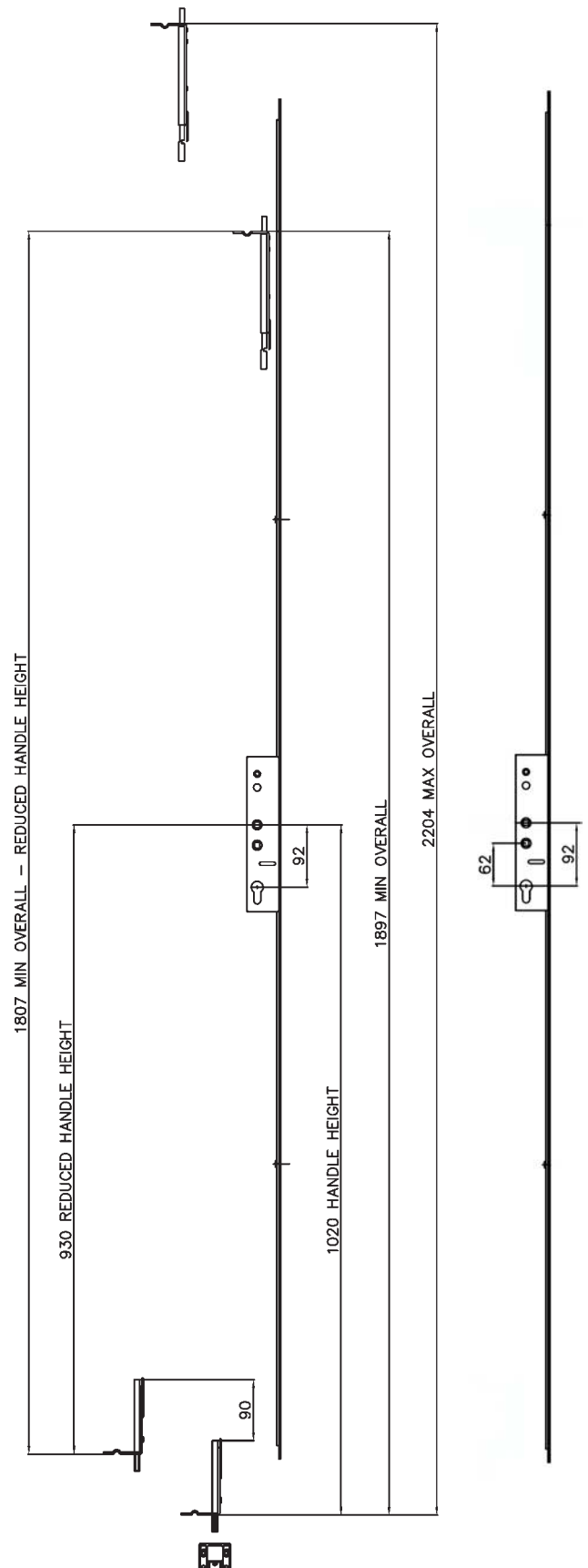
Description	VBH Code	Box Qty
35mm BS Sprung Passive Door Lock 92PZ	3MML0105	10
35mm BS Unsprung Passive Door Lock 92/62PZ	3MML0005	5
Shootbolt Pair (200mm Top & Btm)	3MML0040	25 Pr
Shootbolt Pair (200mm Top & 100mm Btm)	3MML0041	25 Pr
Sec Shootbolt Pr (150mm Top & 100mm Btm)	3MML0015	25 Pr

Striker Plates for Vertical Shootbolts

Description	Standard	Security	Box Qty
Adj Single NO Dust Box (2)	3MML0016	N/A	200
Adj Single WITH Dust Box (2)	3MML0029	3MML0031	200
Adj Double NO Dust Box (3)	3MML0017	N/A	100
Adj Double WITH Dust Box (3)	3MML0030	-	100
Adj Double WITH Dust Box (2)	-	3MML0032	25Pr

#### Profile Related Packers\*

Description	VBH Code	Box Qty
Profile Related Packer Black	3MML - - - -	100



\* Refer to VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related packer for your door. The quantity required is noted in the figure in brackets by each striker plate.

# Multi-Point Door Locks

## Yale

### Mantis 3 - Double Door Solution for Short Doors - Unsprung

Active lock has central latch, 2 hook/deadbolt combinations and 2 cams  
Lift/Lever and Lever/Pad operation  
E<sub>k</sub> endable  
92/62PZ  
SRH 1771-2040mm  
Triklad steel faceplate  
Use sprung handles

Description	VBH Code	Box Qty
Active Lock-35BS E <sub>k</sub> endable	3MML0119	5
Passive Lock-35BS E <sub>k</sub> endable	3MML0120	5
Shootbolt Pair (200mm Top & Bottom)	3MML0040	25 Pr
Shootbolt Pair (200mm Top/100mm Bottom)	3MML0041	25 Pr
Sec Shootbolt Pr (150mm Top/100mm Bottom)	3MML0015	25 Pr

#### Striker Plates\*

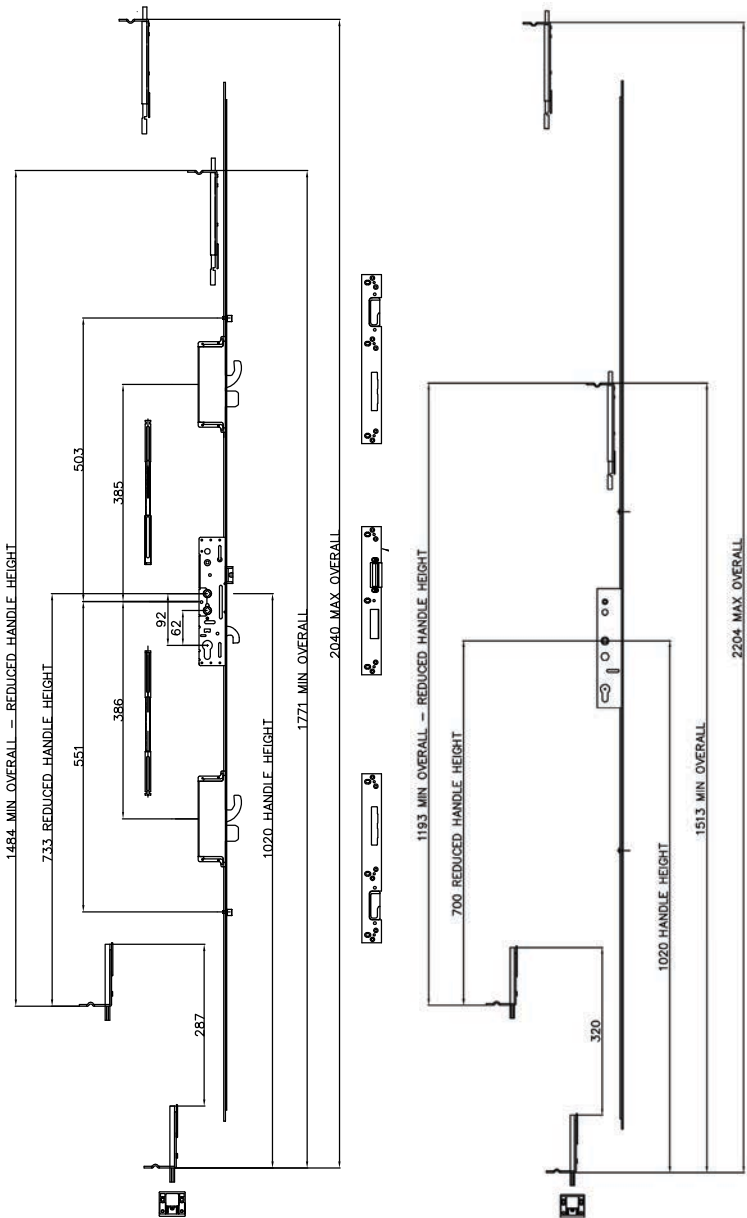
Description	LH	RH	Box Qty
Multi-Keep Set (9)	3MML0091	3MML0092	32

#### Striker Plates for Vertical Shootbolts

Description	Standard	Security	Box Qty
Adj Single NO Dust Box (2)	3MML0016	N/A	200
Adj Single WITH Dust Box (2)	3MML0029	3MML0031	200
Adj Double NO Dust Box (3)	3MML0017	N/A	100
Adj Double WITH Dust Box (3)	3MML0030	-	100
Adj Double WITH Dust Box (2)	-	3MML0032	25Pr

#### Profile Related Packers\*

Description	VBH Code	Box Qty
Profile Related Packer Black	3MML - - -	100



\* Refer to VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related packer for your door. The quantity required is noted in the figure in brackets by each striker plate.



# Miscellaneous Accessories

## Yale

### Manual & Driven Finger Bolts



Description	VBH Code	Box Qty
130mm Manual Finger Bolt	3MML0042	75
150mm Driven Top Reverse Action Shootbolt	3MML0027	50
100mm Driven Bottom Shootbolt	3MML0028	25

### Joggle Fixing



Secures faceplate into Eurogroove if no screw is in the vicinity

Description	VBH Code	Box Qty
Joggle Fixing	3MML0039	100

### Extension Pieces/End Pieces



Description	VBH Code	Box Qty
345mm Extension Triklad	3MML0044	20
345mm Extension Stainless Steel	3MML0046	20
345mm Extension With Roller Cam Triklad	3MML0043	20
119mm End Piece With Roller Cam Triklad	3MML0045	20

### Hole Cover



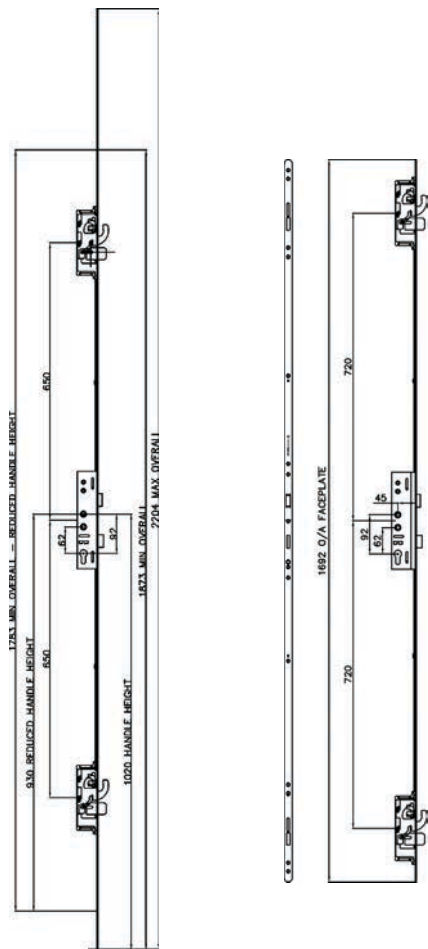
Covers fixing holes in 1-piece striker plate to provide a neat finish to the door frame

Description	VBH Code	Box Qty
Hole Cover	3MML0020	100

# Multi-Point Door Locks for Composite Doors

## Yale

### Mantis 3 - Unsprung Door Locks



2 Hooks/Deadbolts  
92/62PZ Lever/Pad or 92PZ Lift/Lever  
650mm (Type A) / 720mm (Type B) lock case centres  
Flat 16mm faceplate (Type A) radiused 20mm faceplate (Type B)  
Triklad steel faceplate  
Use sprung handles

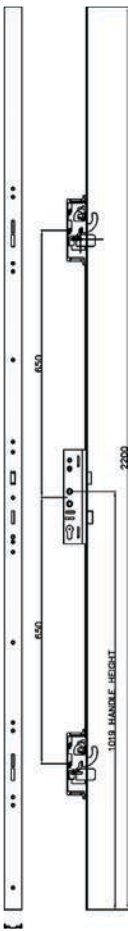
Type A

Description	VBH Code	Box Qty
45BS 92/62PZ 2 Hook/Deadbolt Door Lock	3MML0010	10

Type B

Description	VBH Code	Box Qty
45BS 92/62PZ 2 Hook/Deadbolt Door Lock	3MML0062	10
45BS 92PZ 2 Hook/Deadbolt Door Lock	3MML0063	10

### 44mm Aluminium Face Plate - Unsprung Door Lock



2 Hooks/Deadbolts  
92/62PZ Lever/Pad  
650mm lock case centres  
Powder coated 44mm faceplate  
Option to fit hinge cover plate and Elevator hinges  
Use sprung handles

Description	VBH Code	Box Qty
45BS 44mm White Face Plate Door Lock	3MML0081	10
45BS 44mm Brown Face Plate Door Lock	3MML0082	10
45BS 44mm Tan Face Plate Door Lock	3MML0097	5
Sculptured Notched Hinge Cover Plate White	3MML0083	5
Sculptured Notched Hinge Cover Plate Brown	3MML0084	5
Elevator 2D Adj. Security Hinge White	3MML0087	100
Elevator 2D Adj. Security Hinge Brown	3MML0088	100

### Universal Striker Plates

Description	VBH Code	Box Qty
Latch/Deadbolt Plate (Unsuitable for Keyfree)	3MML0018	20
Latch/Deadbolt Plate (Keyfree ONLY)	3MML1018	20
Hook Striker Plate	3MML0019	20

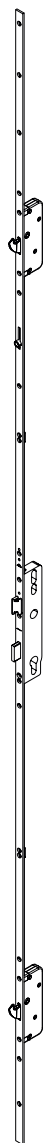
or

Description	VBH Code	Box Qty
Alternative Handed Latch/Deadbolt Plate		
LH Latch/Deadbolt Plate	3MML0085	20
RH Latch/Deadbolt Plate	3MML0086	20

# Door Locks

## Roto

### H600 Single Spindle Door Lock with 2 Hooks



Lift/Lever operation  
Latch, deadbolt & 2 hooks  
92PZ  
Silent-Close latch  
Flat 16mm faceplate

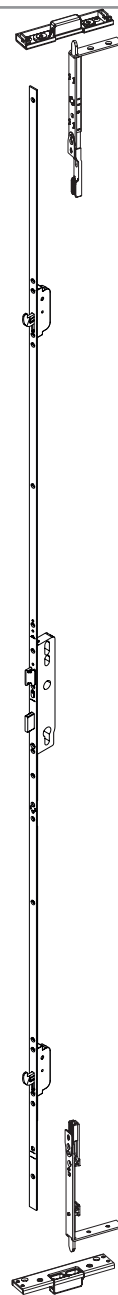
Description	VBH Code	Box Qty
35mm BS Door Lock	3RDL2202	100

#### Profile Related Strikers\*

Description	VBH Code	Box Qty
Latch/Deadbolt Plate LH/RH	3RDL - - - -	50
Hook Striker Plate	3RDL - - - -	50

\* Refer to VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

### H600 Single Spindle Extendable Door Lock with 2 Hooks



Lift/Lever operation  
Latch, deadbolt & 2 hooks  
92PZ  
Silent-Close latch  
Flat 16mm faceplate  
Extendable

Description	VBH Code	Box Qty
35mm BS Extendable Door Lock	3RDL2218	100
135mm Straight Action Shootbolt (optional)	3RDL2211	100
135mm Reverse Action Shootbolt (optional)	3RDL2212	100

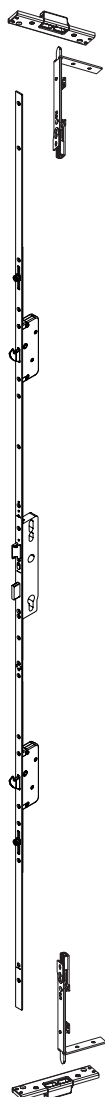
#### Profile Related Strikers\*

Description	VBH Code	Box Qty
Latch/Deadbolt Plate LH/RH	3RDL - - - -	50
Hook Striker Plate	3RDL - - - -	50
Shootbolt Striker Plate (If shootbolts fitted)	3RDL - - - -	50

# Multi-Point Door Locks

## Roto

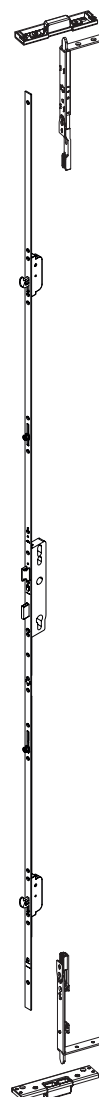
### H600 Single Spindle Extendable Door Lock with Hooks & Outboard V-cams



Lift/Lever operation  
 Latch, deadbolt, 2 hooks & 2 V-cams  
 92PZ  
 Opposing drive  
 Silent-Close latch  
 V-cam mushroom cams are adjustable in height & compression  
 Flat 16mm faceplate

Description	VBH Code	Box Qty
35mm BS Extendable	3RDL2201	100
135mm Straight Action Shootbolt (optional)	3RDL2211	100

### H600 Single Spindle Extendable Door Lock with Hooks & Inboard V-cams



Lift/Lever operation  
 Latch, deadbolt, 2 hooks & 2 V-cams  
 92PZ  
 Silent-Close latch  
 V-cam mushroom cams are adjustable in height & compression  
 Flat 16mm faceplate

Description	VBH Code	Box Qty
35mm BS Extendable	3RDL2208	100
135mm Straight Action Shootbolt (optional)	3RDL2211	100
135mm Reverse Action Shootbolt (optional)	3RDL2212	100

### Profile Related Strikers\*

Description	VBH Code	Box Qty
Latch/Deadbolt Plate LH/RH	3RDL - - - -	50
Hook Striker Plate	3RDL - - - -	50
Shootbolt Striker Plate (If Shootbolts fitted)	3RDL - - - -	50
NT Standard Casement Striker	5RNT - - - -	300

or

Description	VBH Code	Box Qty
NT Security Mushroom Striker	5RNT - - - -	100

\* Refer to VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification



# Door Locks

## Roto

### H600 Single Spindle Door Lock with 4 V-cams



Lift/Lever operation  
 4 V-cams  
 Latch, deadbolt & 4 V-cams  
 92PZ  
 Silent-Close latch  
 V-cam mushroom cams are adjustable in height & compression  
 Flat 16mm faceplate

Description	VBH Code	Box Qty
35mm BS Door Lock	3RDL2206	100

#### Profile Related Strikers\*

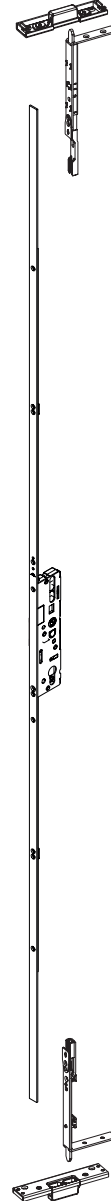
Description	VBH Code	Box Qty
Latch/Deadbolt Plate LH/RH	3RDL - - - -	50
NT Standard Casement Striker	5RNT - - - -	300

or

NT Security Mushroom Striker	5RNT - - - -	100
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\* Refer to VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

### H600 Double Door Passive Lock with Single Spindle



Lift/Lever operation  
 92PZ  
 Enable lock strip to accept top & bottom shootbolts  
 No latch or deadbolt  
 Flat 16mm faceplate

Description	VBH Code	Box Qty
35mm BS Slave Lock	3RDL2210	100
135mm Straight Action Shootbolt	3RDL2211	100
135mm Reverse Action Shootbolt	3RDL2212	100

#### Profile Related Strikers\*

Description	VBH Code	Box Qty
Shootbolt Striker Plate	3RDL - - - -	50



## Maco Z-TA Door Lock

### Z-TA 3 Latch Door Locks with Automatic Locking

Is a key really needed? Maco say 'not with the Protect Z-TA lock range'.

As well as the central deadbolt and 'easy latch', Z-TA features top and bottom MF (Multi-Function) locking points that combine a hook and latch for security and compression. When the door is closed all 3 latches pull the sash in against the frame, providing perfect compression over the full door height. A magnet in the latchplate then triggers the locking mechanism to engage the deadbolt and hooks. A single turn of the cylinder now renders the door fully secure, making Z-TA ideal for the elderly or infirm. If no lever is fitted to the outside, it's not even necessary to turn the key to deadlock the door (although it will be required to get back in!)

Z-TA can also be fitted with an optional electronic motor (shown in blue) that allows it to be used with the MACO openDoor range of 3 access control readers. These enable access via car key or Maco Blue transponder, credit card (chip or swipe), key pad or fingerprint scanner, making the door even easier to use. Maco Blue transponder key ring chip is a general transponder for use with Transponder PLUS where car transponder or chip/swipe cards are not being utilised.

#### Benefits at a glance:

- Locks automatically when door is closed – no key required to lock door
- No lifting of handles or multiple key turns – ideal for the elderly or infirm
- Optimum compression along complete door height
- Steel striker plates for strength
- Accepts 2 and 3 screw fix sprung or unsprung handles & architectural rose furniture
- Blocking feature on lever provides additional security when locked
- Available in 16mm, 20mm Bull Nose & 24mm Top Hat face plates
- Compression achieved via latches. Passive hook bolts provide security
- Cycle tested to 200,000 operations
- Works with standard cylinders (no double clutch required)
- Silver-look surface treatment tested to 480 hours neutral salt spray test
- 'Easy latch' reduces noise and force required to latch the door

# Multi-Point Door Locks - Automatic Maco

## Z-TA 3 Latch Door Lock with Automatic Locking linked to Electronic Access Control

Locks automatically

Can be used manually or with Maco openDoor electronic access control 92PZ

Central latch and deadbolt, plus additional locking points as described below

Top and bottom hooks locate automatically when adjacent latches hit striker plates

Description	VBH Code	Box Qty
35mm BS 16mm FP/ 2 Hooks	3ZTA0001	5
35mm BS 16/24mm Top Hat FP/ 2 Hooks	3ZTA0005	5
35mm BS 20mm Bull Nose FP/ 2 Hooks	3ZTA0007	5
45mm BS 20mm Bull Nose FP/ 2 Hooks	3ZTA0008	5

Striker plates are different to those used with Maco locks sold under the 3MDL & 3CTS prefixes (e.g. G-TS, W-TS, C-TS etc). Refer to the Maco Z-TA striker list on [www.vbhgb.com](http://www.vbhgb.com) for profile related strikers

### openDoor Access Control Systems

There are 4 access control options to choose from:

**Transponder PLUS** – access using car key transponder, chip or swipe card or Maco Blue key ring chip

**Touch** – access using fingerprint scanner

**Code** – access using 4-6 digit numerical code on key pad

Description	VBH Code	Box Qty
openDoor Transponder PLUS	3ZTA0302	1
openDoor Touch	3ZTA0303	1
openDoor Code	3ZTA0304	1

### Ancillaries

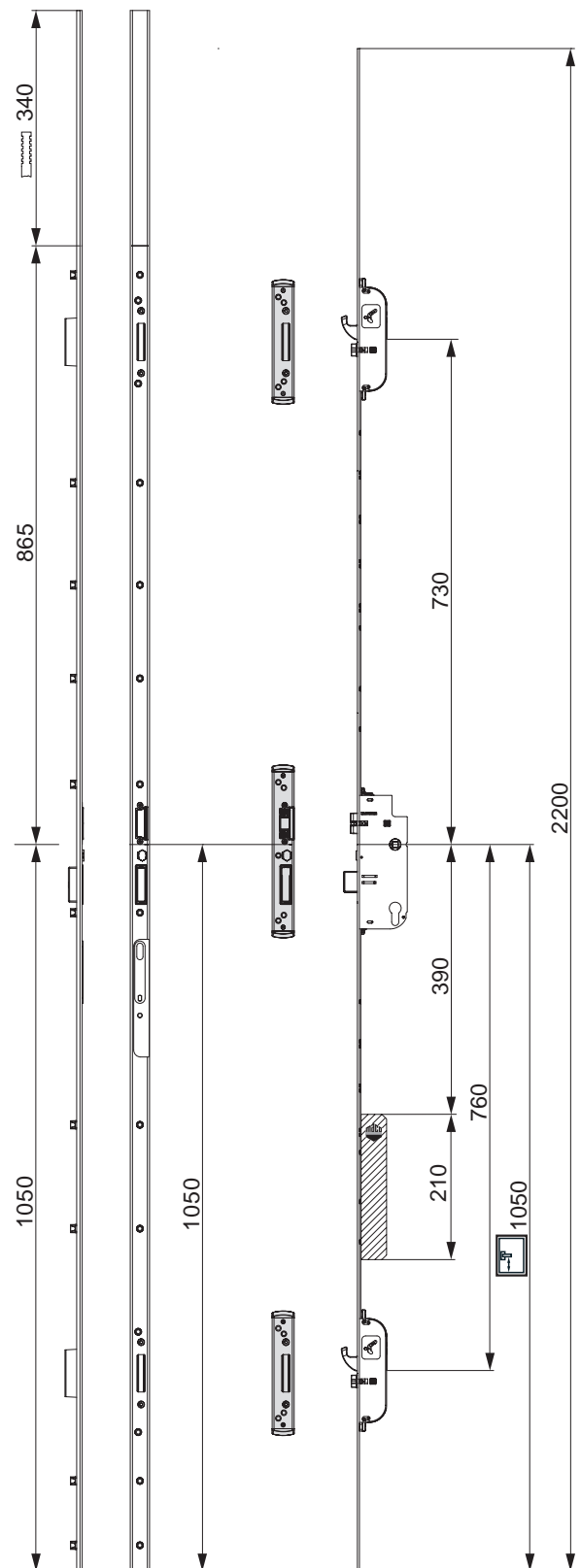
Description	VBH Code	Box Qty
Z-TA Comfort Motor	3ZTA0301	1
Blue Transponder Key with Chip	3ZTA0330	1
Cable With Connection Plug 8.5m (2.5 + 6m)	3ZTA0306	1
Cable With Connection Plug 12.5m (2.5 + 10m)	3ZTA0307	1
Power Supply Connection 150mm	3ZTA0309	1
Cable Transfer Tray (4mm Air Gap and Composites)	3ZTA0310	1
Cable Connection (16/TH Face Plate)	3ZTA0311	1
Cable Connection (20 Face Plate)	3ZTA0312	1

### Example Order

- 1 x Z-TA Door Lock
- 1 x Z-TA Latch Plate (profile dependent)
- 2 x Z-TA MF-HO Strikers (profile dependent)
- 1 x 3ZTA0301 Comfort Motor
- 1 x openDoor Access Control System

(if Z-TA is being used with access control unit other than MACO openDoor 1 x 3ZTA0309 is required)

- 1 x Cable (dependent on length required)
- 1 x 3ZTA0310 Cable Tray (4mm gap timber and composites only)
- 1 x Cable Connection Plate (dependent on lock face plate width)
- 1 x 12V 1.5 – 2 Amp Power Supply (third party supply)



# Electronic Locking Upgrades

## Yale

### Keyfree - Multi-point Electronic Access System

Yale Keyfree allows a door to be locked and unlocked electronically, either by remote control using a sender in a key fob (similar to that used with cars) or by typing in a 4-12 digit PIN code of the user's choice on the attractive inbuilt keypad. The keypad illuminates when touched to aid use at night.

Keyfree is a stand-alone product that needs no hard wiring. It works with standard batteries that will last approximately 12 months based on an average daily use of 15 operations. Keyfree alerts the user when the batteries are approaching the end of their life.

Additional key fobs can be ordered as required and these can be easily synchronised to the door using the user guide supplied.

The product is simple to install and is simple to order as it comes in just 5 main components; lock (Doormaster lock option supplied complete with keeps), polished chrome or gold Keyfree unit, Keyfree cylinder\*, spindle\* and fixing pack\*.

#### Key Features:

- Enables operation of entrance door without a key, using key fob or family PIN code via keypad
- Grants access to carers/visitors with visitor PIN code
- Alarmed for child safety/intruder detection
- Visual and aural status indicators
- Quick exit in case of emergency by operating internal handle
- Battery powered, with low life warning
- Electric and mechanical back up options



- Secured By Design approved product
- Additional Key fobs available to order (2 supplied with Keyfree)
- Fake PIN code function
- Keypad illumination for night time use
- Attractive polished chrome or gold unit enhances appearance of door

Keyfree cannot be fitted to standard locks. Therefore please order a suitable Mantis 3 or Doormaster lock from the selection below.

Description	VBH Code	Box Qty
Keyfree Unit Polished Gold	3MML1501	1
Keyfree Unit Polished Chrome	3MML1502	1

Doormaster**	VBH No	Box Qty	Mantis 3 (92/62PZ)***	VBH Code	Box Qty
Lock - 16FP/35BS 2 Rollers/2 Mushrooms	3YDL1001	1	Lock - 16FP/35BS 3 Hook/2 DB 2 Cam/550mm	3MML1003	1
Lock - 16FP/45BS 2 Rollers/2 Mushrooms	3YDL1002	1	Lock - 16FP/35BS 3 Hook/2 DB 2 Cam/650mm	3MML1007	1
Lock - 16FP/35BS 3 Hooks/2 Rollers	3YDL1004	1	Lock - 16FP/35BS 3 Hook/2 DB 650mm	3MML1009	1
Lock - 16FP/45BS 3 Hooks/2 Rollers	3YDL1005	1	Lock - 16FP/35BS 3 Hooks/3 DB 550mm	3MML1013	1
Lock - 16FP/35BS 3 Hooks	3YDL1008	1	Lock - 20FP/45BS 3 Hook/2 DB 720mm	3MML1062	1
Lock - 16FP/45BS 3 Hooks	3YDL1009	1			
Lock - 20FP/45BS 3 Hooks	3YDL1006	1			

Description	KF 40	KF 55	KF 55-A	KF 55-B	KF 55-C	KF 60-A	KF 60-B	KF 60-C	Box Qty
Cylinder Unit Polished Gold*	3MML1531	3MML1561	3MML1563	3MML1565	3MML1567	3MML1573	3MML1575	3MML1577	1
Cylinder Unit Polished Chrome*	3MML1532	3MML1562	3MML1564	3MML1566	3MML1568	3MML1574	3MML1576	3MML1578	1

Description	SPA1S	SPB1S	KF 60-A	KF 60-B	KF 60-C	Box Qty
Spindle Pack*	3MML1511	3MML1512	3MML1513	3MML1514	3MML1515	1

Description	FPAS	FPBS	FPCS	FPDS	Box Qty
Fixing Pack*	3MML1521	3MML1522	3MML1523	3MML1524	1

\*Refer to VBH or [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

\*\*Supplied complete with universal striker plates to fit ALL profiles

\*\*\*Refer to Yale Mantis 3 lock section for relevant striker plates



# Electronic Access Control

## Yale

### Keyless Nightlatch Electronic Access System\*



Keyless is an external unit that works in tandem with most nightlatches with minimum 60mm backset.

It is suitable for flush composite and timber doors.

By entering a family PIN code, the door can be opened without a key. A visitor PIN function makes it ideal for the elderly or infirm who rely on daily home visits.

Keyless is a stand-alone product that needs no hard wiring. It works with standard AA batteries that have an estimated life of 10,000 operations, based on normal use. A warning light flashes when it is time to replace the batteries.

The touch screen keypad is blue backlit for night time entry.

We supply Keyless in an easy to install kit consisting of an external keypad, inner sender unit, chrome nightlatch and full fitting instructions.

#### Key Features

- Touch screen backlit keypad
- Wireless - uses standard AA batteries for up to 10,000 operations
- 9V battery connection will power unit temporarily in event of normal battery failure
- Retro-fits with most 60mm nightlatches
- 4-12 digit family PIN code (easily re-programmable)
- Fake PIN code feature keeps your PIN safe
- User codes and settings are retained when batteries are disconnected for replacing
- A changeable temporary visitor PIN can be issued to visitors so the main family PIN need never be revealed
- 3 minute lock-out if an incorrect PIN is entered 5 times
- Supplied in attractive retail packaging for selling on



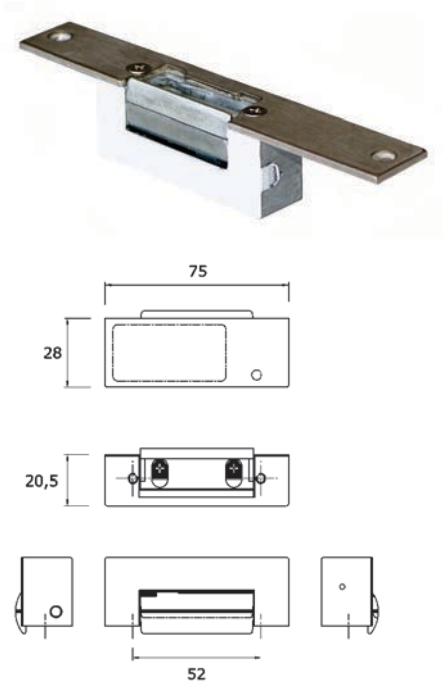
Description	VBH Code	Box Qty
Keyless Digital Lock Set Chrome	3YTR1502	1

\*Keyless should be used in conjunction with a BS3621-approved mortice lock to meet Insurers' minimum security requirements

Electric Latch Releases

Supplied fixed to flat stainless steel latch plate. If preferred, the latch can be fitted to the striker plates listed below which are better suited to PVCu doors when fitted with profile related under packers

Description	VBH Code	Box Qty
Fail Safe Adjustable Electric Latch Release 12V DC	2WAC0130	1
Fail Secure Adjustable Electric Latch Release 12V AC/DC	2WAC0131	1
LH Latch/Deadbolt Plate	3GUL1121	1
RH Latch/Deadbolt Plate	3GUL1122	1
Profile Related Under Packer* (2 Req)	3GUL - - -	100



\*Refer to VBH or [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

# Multi-Point Door Locks

## Maco Stable Door Gear

### C-TS Stable Door Gear with 2 Hooks

Top door - lift/lever operation c/w hook, latch and deadbolt with or without 'IS' cams

Bottom door - cylinder operation c/w hook and deadbolt, with or without 'IS' cams

Top half opens independently of bottom to provide stable opening

When bottom door is unlocked it locks into top door to open as one unit

16mm faceplate

Use with standard 92PZ unsprung handles

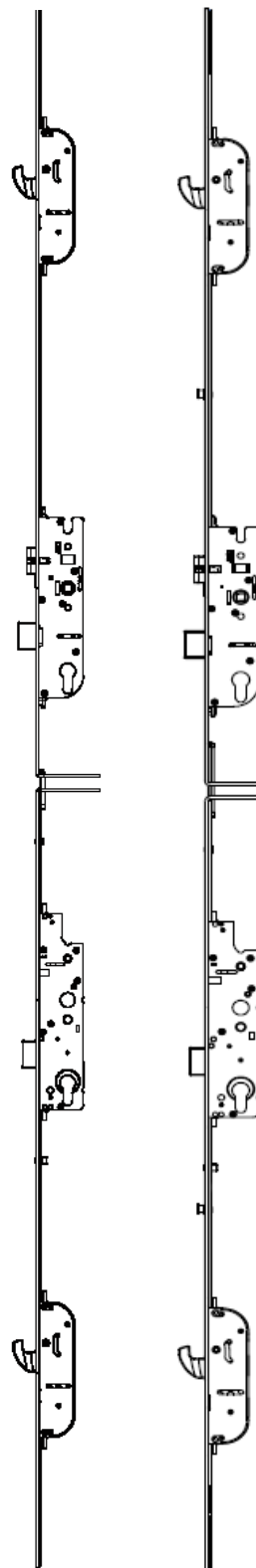
Maco 10 year guarantee

Approved under Maco Secure Plus scheme

Description	VBH Code	Box Qty
35mm BS 2 Hooks	3CTS0020	1
35mm BS 2 Hooks/2 'IS' Cams	3CTS0018	1

#### Strikers Required\*

Description	VBH Code	Box Qty
Latch/Deadbolt Plate LH or RH	3MDL - - - -	20
Dust Cover for Above	3MDL - - - -	20
Hook Striker	3MDL - - - -	20
Casement Striker	5MAC - - - -	200
or		
'IS' Mushroom Striker	5MAC - - - -	100



\* Refer to VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

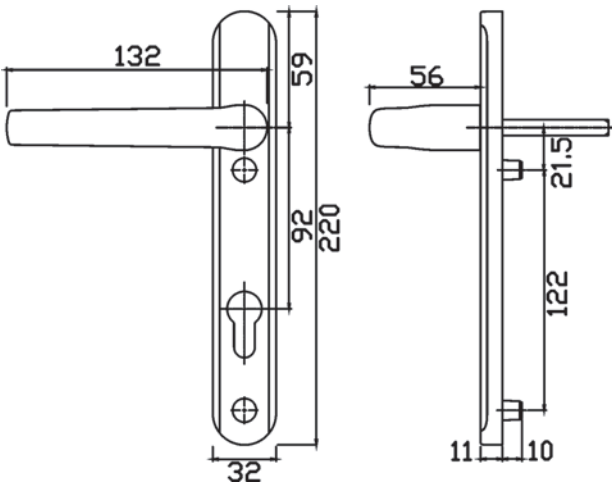
# Door Handles

## greenteQ

Alpha Lever/Lever - Short Backplate

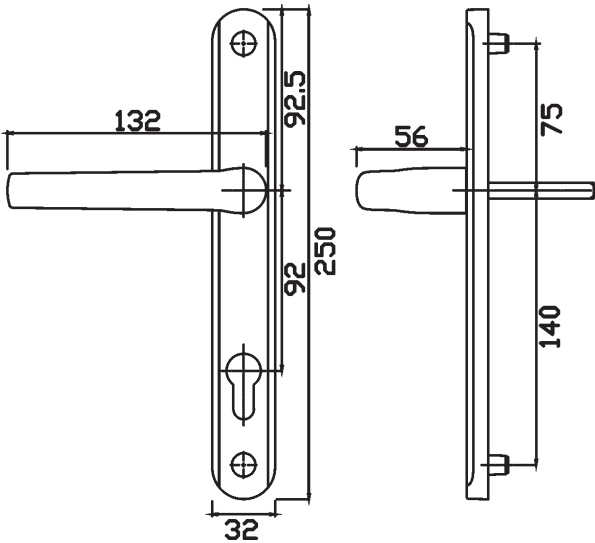


Alpha Lever/Lever - Long Backplate



92PZ  
 Unsprung to fit standard 92PZ lift/lever locks  
 Up to 72mm door thickness  
 Flange around cylinder hole for gap elimination & security  
 M6 screws for added strength

Finish	VBH Code	Box Qty
White (RAL9016)	2QHB0001	12
Black (RAL9005)	2QHB0004	12
Anthracite Grey (RAL7016)	2QHB0010	12
Silver Grey (RAL7040)	2QHB0009	12
PVD Gold	2QHB0005	12
Polished Chrome	2QHB0006	12
Satin Chrome	2QHB0007	12
Painted Silver		12

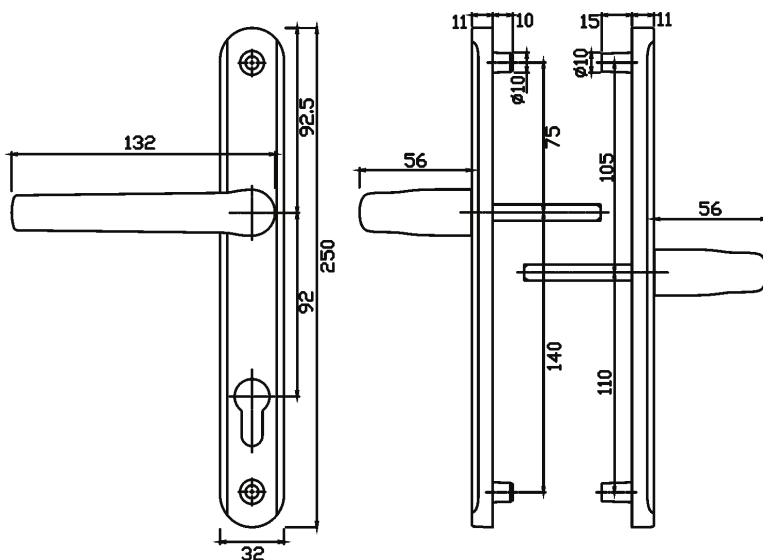


92PZ  
 Sprung to fit Lockmaster, Yale YS170 and Mantis 3  
 Up to 72mm door thickness  
 Flange around cylinder hole for gap elimination & security  
 M6 screws for added strength

Finish	VBH Code	Box Qty
White (RAL9016)	2QHB0121	12
Black (RAL9005)	2QHB0124	12
Anthracite Grey (RAL7016)	2QHB0130	12
Silver Grey (RAL7040)	2QHB0129	12
PVD Gold	2QHB0125	12
Polished Chrome	2QHB0126	12
Satin Chrome	2QHB0127	12
Painted Silver		12

# Door Handles greenteQ

## Alpha Lever/Offset Lever - Long Backplate



92/62PZ

2 screw fix

Sprung to suit double spindle Paddock, Yale YS170 and Mantis 3

Up to 72mm door thickness

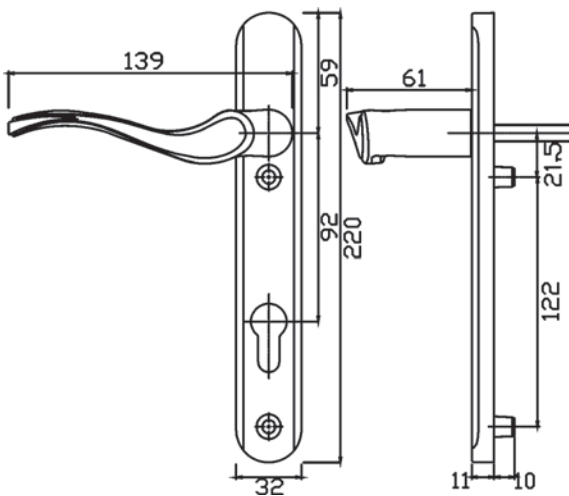
Flange around cylinder cut-out for gap elimination & security

M6 screws for added strength

Non-handed

Finish	VBH Code	Box Qty
White (RAL9016)	2QHB0171	12
Black (RAL9005)	2QHB0174	12
PVD Gold	2QHB0175	12
Polished Chrome	2QHB0176	12
Satin Chrome	2QHB0177	12
Smokey Chrome	2QHB0178	12

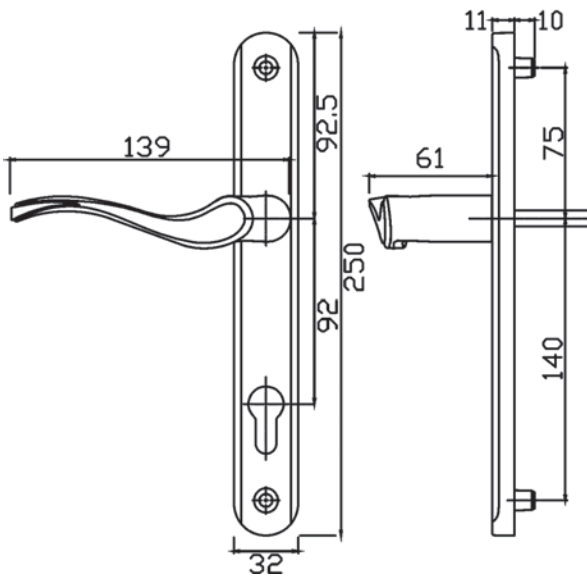
Alpha Curve Lever/Lever -  
Short Backplate



92PZ  
2 screw fix  
Unsprung to fit 92PZ lift/lever locks  
Up to 72mm door thickness  
Flange around cylinder hole for gap elimination and security  
M6 screws for greater strength

Finish	LH	RH	Box Qty
White (RAL9016)	2QHB1001	2QHB1002	12
Black (RAL9005)	2QHB1007	2QHB1008	12
PVD Gold	2QHB1009	2QHB1010	12
Polished Chrome	2QHB1011	2QHB1012	12
Satin Chrome	2QHB1013	2QHB1014	12
Smokey Chrome	2QHB1015	2QHB1016	12

Alpha Curve Lever/Lever -  
Long Backplate



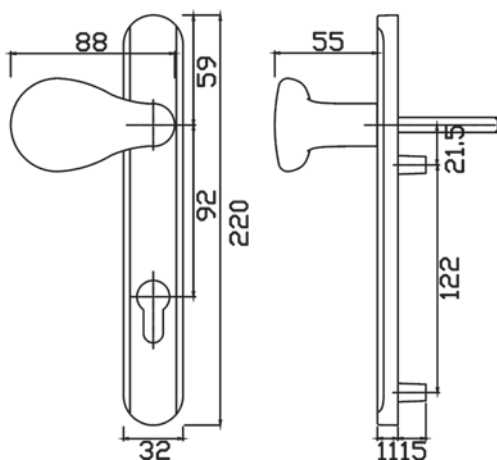
92PZ  
2 screw fix  
Sprung to fit single spindle Lockmaster, Yale YS170 and Mantis 3 & Roto locks  
Up to 72mm door thickness  
Flange around cylinder hole for gap elimination and security  
M6 screws for greater strength

Finish	LH	RH	Box Qty
White (RAL9016)	2QHB1121	2QHB1122	12
Black (RAL9005)	2QHB1127	2QHB1128	12
PVD Gold	2QHB1129	2QHB1130	12
Polished Chrome	2QHB1131	2QHB1132	12
Satin Chrome	2QHB1133	2QHB1134	12
Smokey Chrome	2QHB1135	2QHB1136	12



# Door Handles greenteQ

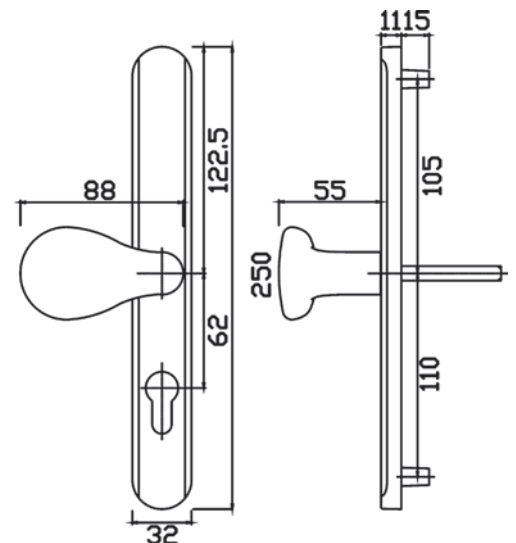
## Alpha Lever/Turn Pad - Short Backplate



92PZ  
2 screw fix  
Unsprung to fit standard 92PZ lift/lever locks  
Up to 72mm door thickness  
Flange around cylinder hole for gap elimination & security  
M6 screws for added strength  
Non-handed

Finish	VBH Code	Box Qty
White (RAL9016)	2QHB0041	12
Black (RAL9005)	2QHB0044	12
PVD Gold	2QHB0045	12
Polished Chrome	2QHB0046	12
Satin Chrome	2QHB0047	12
Smokey Chrome	2QHB0048	12

## Alpha Lever/Offset Turn Pad - Long Backplate

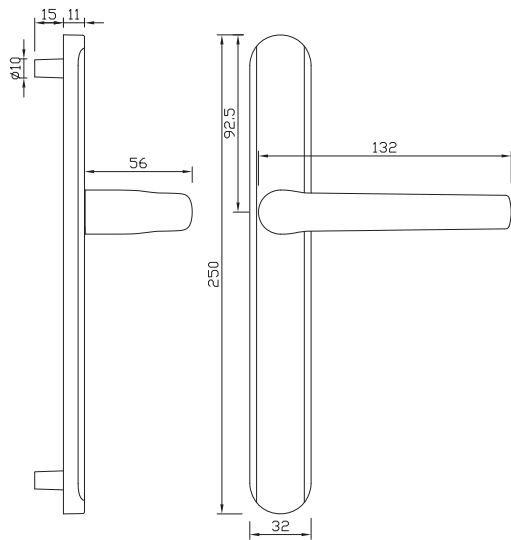


92/62PZ  
2 screw fix  
Sprung to suit double spindle Lockmaster, Yale YS170 and Mantis 3  
Up to 72mm door thickness  
Flange around cylinder hole for gap elimination & security  
M6 screws for added strength  
Non-handed

Finish	VBH Code	Box Qty
White (RAL9016)	2QHB0161	12
Black (RAL9005)	2QHB0164	12
PVD Gold	2QHB0165	12
Polished Chrome	2QHB0166	12
Satin Chrome	2QHB0167	12
Smokey Chrome	2QHB0168	12



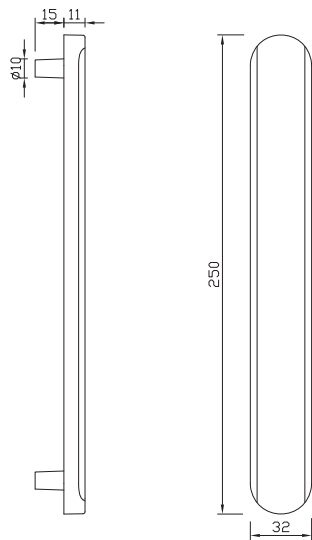
Alpha External Handle  
Without Cylinder Hole - Long Backplate



2 screw fix single external backplate with lever  
No cylinder hole  
Works with standard long backplate lever/lever where no external cylinder is required

Finish	VBH Code	Box Qty
White (RAL9016)	2QHB0131	2
Black (RAL9005)	2QHB0134	2
Anthracite Grey (RAL7016)	2QHB0140	2
PVD Gold	2QHB0135	2
Polished Chrome	2QHB0136	2
Satin Chrome	2QHB0137	2

Alpha Blank External Backplate -  
Long



2 screw fix single backplate  
Completely blank external backplate (no cylinder hole or lever)  
Works with standard long backplate lever/lever where no external handle or cylinder is required

Finish	VBH Code	Box Qty
White (RAL9016)	2QHB0111	6
Black (RAL9005)	2QHB0114	6
Anthracite Grey (RAL7016)	2QHB0120	6
PVD Gold	2QHB0115	6
Polished Chrome	2QHB0116	6
Satin Chrome	2QHB0117	6

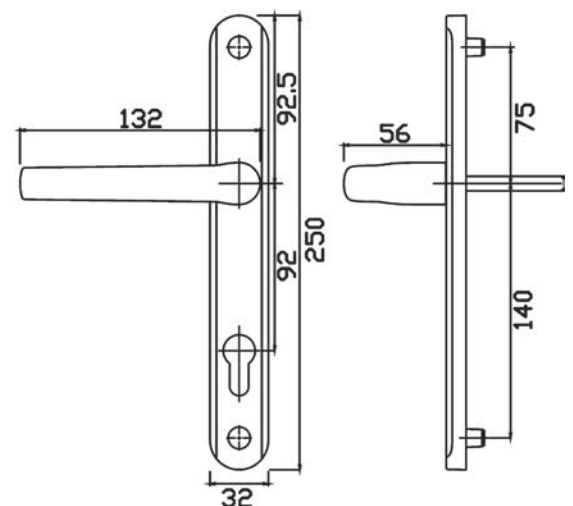
# Door Handles greenteQ

## Alpha 25 Lever/Lever - Stainless Steel - Long Backplate



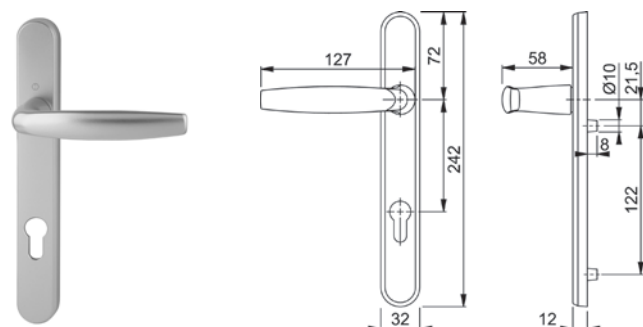
Grade 304 stainless steel construction for exceptional corrosion resistance  
 92PZ to suit most door locks  
 2 screw fix  
 Unsprung to fit standard 92PZ lift/lever locks (optional spring cassette available)  
 Up to 72mm door thickness  
 M6 screws for added strength  
 Non-handed  
 25 Year Guarantee

Finish	VBH Code	Box Qty
PVD Gold	2QHB0825	12
Polished Chrome	2QHB0826	12
Brushed Stainless Steel	2QHB0829	12
Spring Cassette Pair	2QHB0822	1



# Door Handles Hoppe

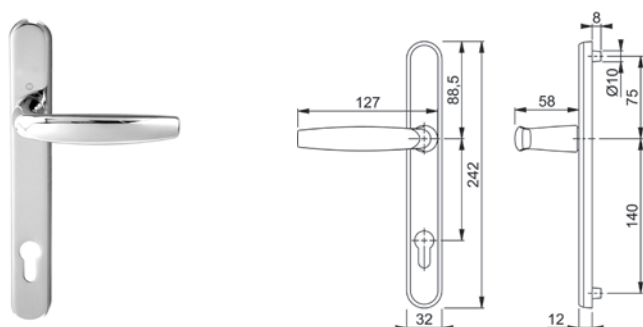
## Atlanta Standard Lever/Lever - Short Screw Pitch



92PZ  
2 screw fix  
Monobloc construction - levers fixed to backplates  
Up to 70mm door thickness  
Duraplus coating provides 10 year surface guarantee on all finishes  
10 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6401	15
Gold Anodised (F3)	2HOP6402	15
White (RAL9016)	2HOP6403	15
Black (RAL9714)	2HOP6404	15
Polished Chrome	2HOP6405	10
Polished Brass	2HOP6406	10

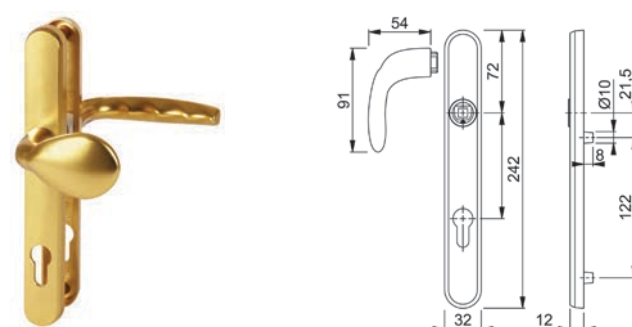
## Atlanta Standard Lever/Lever - Long Screw Pitch



92PZ  
2 screw fix - pitched to suit Lockmaster, Yale YS170 and Mantis 3 locks  
Monobloc construction - levers fixed to backplates  
Up to 70mm door thickness  
Duraplus coating provides 10 year surface guarantee on all finishes  
10 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6441	15
Gold Anodised (F3)	2HOP6442	15
White (RAL9016)	2HOP6443	15
Black (RAL9714)	2HOP6444	15
Polished Chrome	2HOP6445	10
Polished Brass	2HOP6446	10

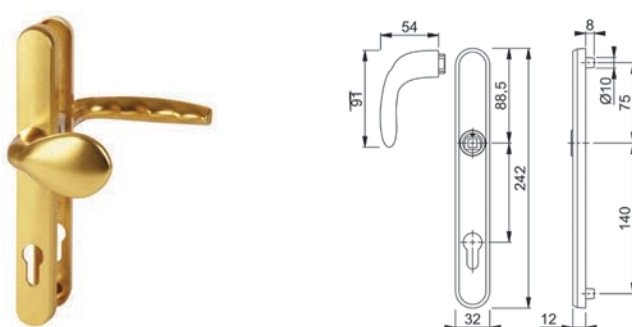
## Atlanta Standard Lever/Turn Pad - Short Screw Pitch



92PZ  
2 screw fix  
Monobloc construction - levers fixed to backplates  
Up to 70mm door thickness  
Duraplus coating provides 10 year surface guarantee on all finishes  
10 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6421	15
Gold Anodised (F3)	2HOP6422	15
White (RAL9016)	2HOP6423	15
Black (RAL9714)	2HOP6424	15
Polished Chrome	2HOP6425	10
Polished Brass	2HOP6426	10

## Atlanta Standard Lever/Turn Pad - Long Screw Pitch

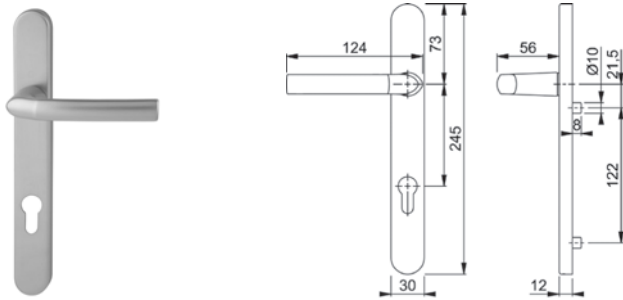


92PZ  
2 screw fix - pitched to suit Lockmaster, Yale YS170 and Mantis 3 locks  
Monobloc construction - levers fixed to backplates  
Up to 70mm door thickness  
Duraplus coating provides 10 year surface guarantee on all finishes  
10 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6461	15
Gold Anodised (F3)	2HOP6462	15
White (RAL9016)	2HOP6463	15
Black (RAL9714)	2HOP6464	15
Polished Chrome	2HOP6465	10
Polished Brass	2HOP6466	10

# Door Handles Hoppe

## Birmingham Lever/Lever - Short Screw Pitch



92PZ

2 screw fix

Monobloc construction - levers fixed to backplates

Up to 70mm door thickness

Duranorm coating provides 5 year surface guarantee on all finishes  
5 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6001	20
Gold Anodised (F3)	2HOP6002	20
White (RAL9016)	2HOP6003	20
Black (RAL9714)	2HOP6004	20
Polished Chrome	2HOP6005	20
Satin Aluminium	2HOP6007	20

## Birmingham Lever/Turn Pad - Short Screw Pitch



No line drawing  
currently available

92PZ

2 screw fix

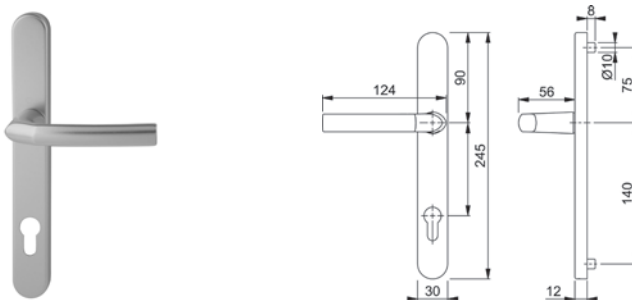
Monobloc construction - levers fixed to backplates

Up to 70mm door thickness

Duranorm coating provides 5 year surface guarantee on all finishes  
5 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6021	20
Gold Anodised (F3)	2HOP6022	20
White (RAL9016)	2HOP6023	20
Black (RAL9714)	2HOP6024	20
Polished Chrome	2HOP6025	20
Satin Aluminium	2HOP6027	20

## Birmingham Lever/Lever - Long Screw Pitch



92PZ

2 screw fix - pitched to suit Lockmaster, Roto and Yale locks

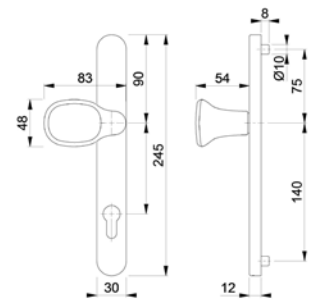
Monobloc construction - levers fixed to backplates

Up to 70mm door thickness

Duranorm coating provides 5 year surface guarantee on all finishes  
5 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6041	20
Gold Anodised (F3)	2HOP6042	20
White (RAL9016)	2HOP6043	20
Black (RAL9714)	2HOP6044	20
Polished Chrome	2HOP6045	20
Satin Aluminium	2HOP6047	20

## Birmingham Lever/Turn Pad - Long Screw Pitch



92PZ

2 screw fix - pitched to suit Lockmaster, Roto and Yale locks

Monobloc construction - levers fixed to backplates

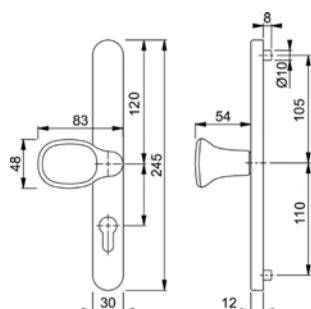
Up to 70mm door thickness

Duranorm coating provides 5 year surface guarantee on all finishes  
5 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6061	20
Gold Anodised (F3)	2HOP6062	20
White (RAL9016)	2HOP6063	20
Black (RAL9714)	2HOP6064	20
Polished Chrome	2HOP6065	20
Satin Aluminium	2HOP6067	20

# Door Handles Hoppe

## Birmingham Lever/Offset Turn Pad - Long Screw Pitch



92/62PZ

2 screw fix

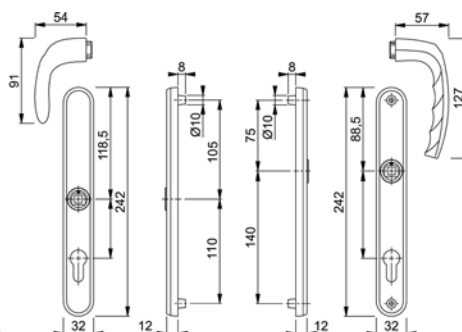
Monobloc construction - levers fixed to backplates

Up to 70mm door thickness

Duranorm coating provides 5 year surface guarantee on all finishes  
5 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6081	20
Gold Anodised (F3)	2HOP6082	20
White (RAL9016)	2HOP6083	20
Black (RAL9714)	2HOP6084	20
Polished Chrome	2HOP6085	20
Satin Aluminium	2HOP6087	20

## Atlanta Lever/Offset Turn Pad - Long Screw Pitch



92/62PZ

2 screw fix

Monobloc construction - levers fixed to backplates

Up to 70mm door thickness

Duraplus coating provides 10 year surface guarantee on all finishes  
10 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6481	20
Gold Anodised (F3)	2HOP6482	20
White (RAL9016)	2HOP6483	20
Black (RAL9714)	2HOP6484	20
Polished Chrome	2HOP6485	20

## Atlanta Lever/Offset Lever - Long Screw Pitch



No line drawing  
currently available

92/62PZ

2 screw fix

Sprung to suit double spindle Yale Mantis 3 & YS170 and Lockmaster

Monobloc construction - levers fixed to backplates

Up to 70mm door thickness

Duraplus coating provides 10 year surface guarantee on all finishes  
10 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6601	20
Gold Anodised (F3)	2HOP6602	20
White (RAL9016)	2HOP6603	20
Black (RAL9714)	2HOP6604	20
Polished Chrome	2HOP6605	20

## Atlanta Lever/Offset Turn Pad with Snib - Long Screw Pitch



No line drawing  
currently available

92/62PZ

2 screw fix

Sprung to suit double spindle Yale Mantis 3 & YS170 and Lockmaster

Monobloc construction - levers fixed to backplates

Snib holds back latch to prevent lock outs

Up to 70mm door thickness

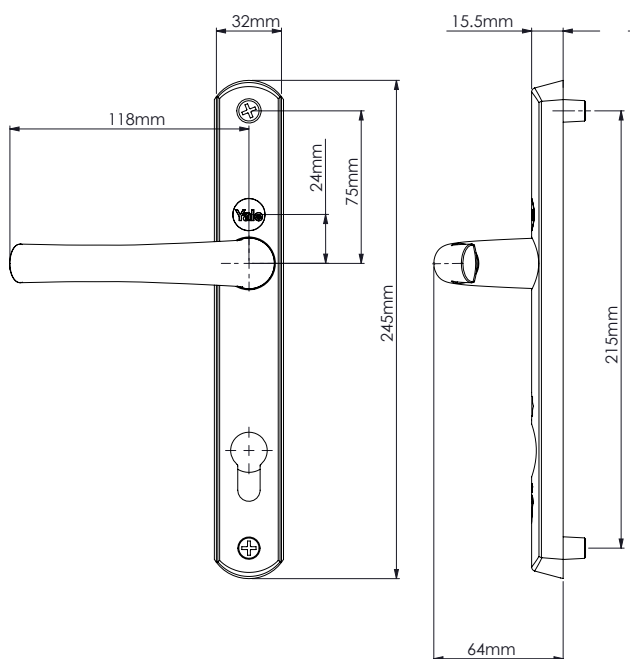
Duraplus coating provides 10 year surface guarantee on all finishes  
10 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6621	20
Gold Anodised (F3)	2HOP6622	20
White (RAL9016)	2HOP6623	20
Black (RAL9714)	2HOP6624	20
Polished Chrome	2HOP6625	20

# Door Handles

## Yale

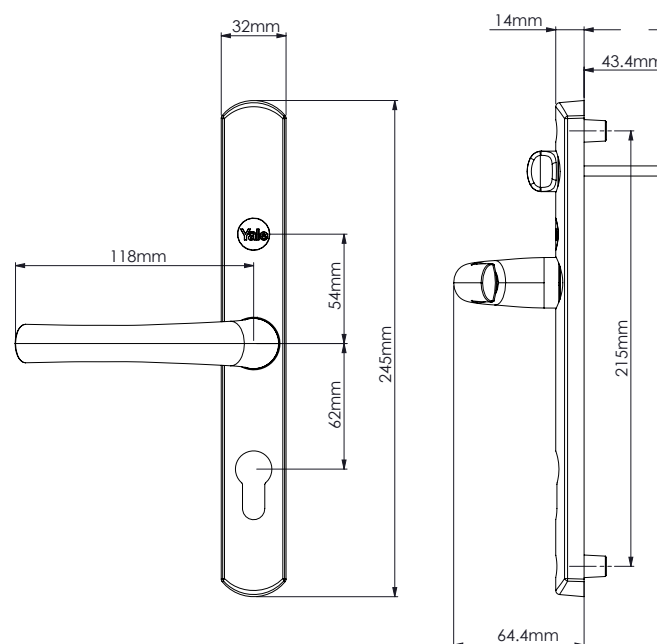
### Superior Lever/Lever - Long Backplate



92PZ  
2 screw fix  
Aluminium construction  
Sprung to suit Lockmaster, Yale YS170 and Mantis 3  
Accredited to BS EN 1906-Grade 4  
(200000 cycles & 480 hours salt spray test)  
M6 stainless steel screws for added strength  
10 year mechanical guarantee

Finish	VBH Code	Box Qty
White	2YDF0001	10
Black	2YDF0002	10
Gold Anodised	2YDF0003	10
Silver Anodised	2YDF0004	10

### Superior Lever/Offset Lever - Long Backplate

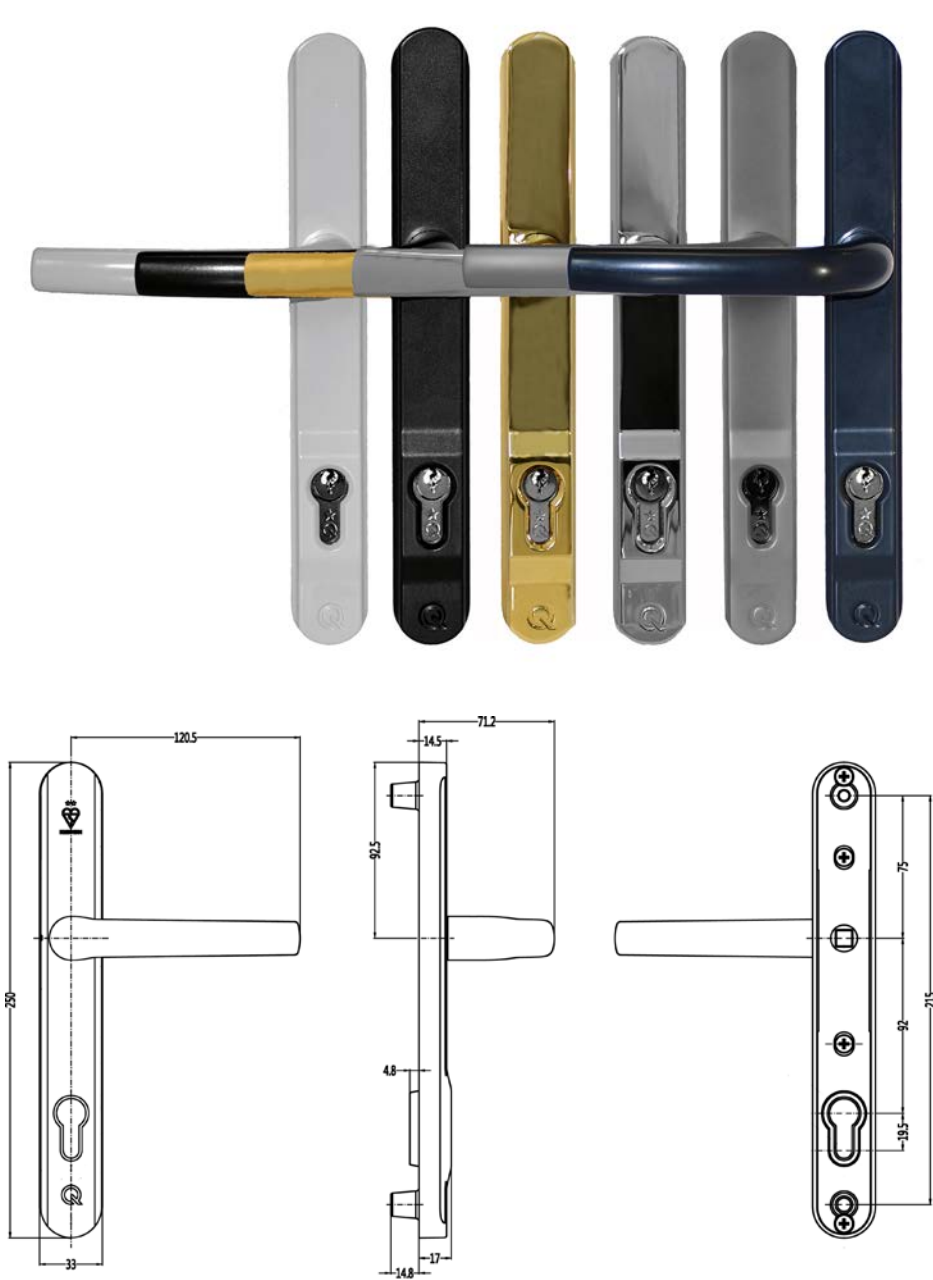


92/62PZ  
2 screw fix  
Aluminium construction  
Sprung to suit Lockmaster, Yale YS170 and Mantis 3  
Latch hold-back snib prevents lock outs  
Accredited to BS EN 1906-Grade 4  
(200000 cycles & 480 hours salt spray test)  
M6 stainless steel screws for added strength  
10 year mechanical guarantee

Finish	VBH Code	Box Qty
White	2YDF0011	10
Black	2YDF0012	10
Gold Anodised	2YDF0013	10
Silver Anodised	2YDF0014	10

# Door Handles - Security greenteQ

## Alpha TS007 2-Star Security Door Handle



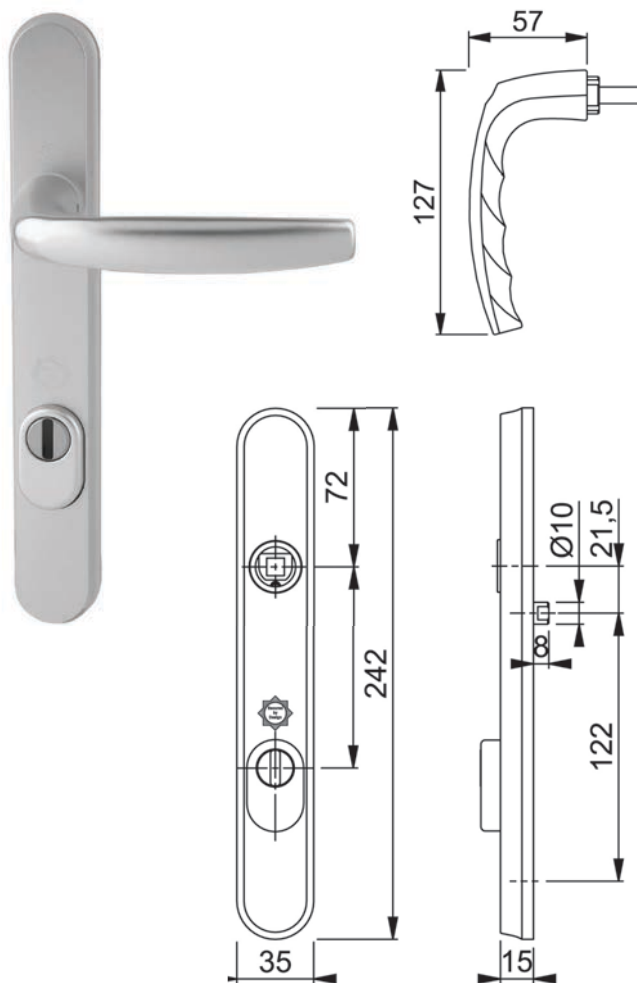
TS007:2014 2 Star Kitemark approved (KM591531)  
 EN1906:2012 classification 16-0030A  
 Provides full TS007 3 star protection when used with a 1 star cylinder (e.g. greenteQ Q-Star)  
 Protects profile cylinder from snapping and extracting  
 2 bolt fixing (steel bolts for added strength)  
 Identical fixing centres to standard Alpha long backplate handles so upgrading is easy  
 No need to fit additional cylinder protection  
 Fits standard 92PZ lift/lever locks  
 Up to 72mm door thickness  
 Non-handed  
 Sprung internal lever

Finish	VBH Code	Box Qty
White (RAL9016)	2QHB0521	1
Black (RAL9005)	2QHB0524	1
PVD Gold	2QHB0525	1
Polished Chrome	2QHB0526	1
Satin Chrome	2QHB0527	1
Anthracite Grey (RAL7016)	2QHB0530	1



# Door Handles - Security Hoppe

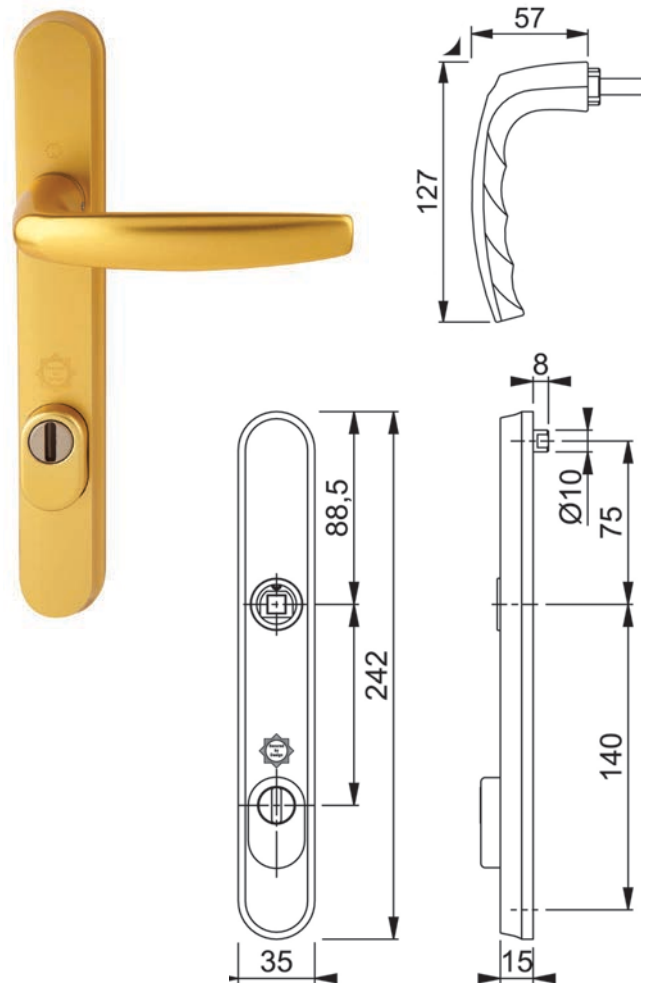
## Atlanta PAS24:2007+A2:2011 Security Lever/Lever - Short Screw Pitch



92PZ  
2 screw fix  
Monobloc construction / quick-fit inner  
Up to 70mm door thickness  
Duraplast coating provides 10 year surface guarantee on all finishes  
Solid extruded aluminium external backplate for supreme strength  
(levers, pads and inner backplate are all cast aluminium)  
Meets requirements of PAS24:2007+A2:2011  
Clearly marked as Secured by Design approved to deter would-be burglars  
Identical fixing centres to standard furniture  
No need to fit additional cylinder protection  
10 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6501	10
Gold Anodised (F3)	2HOP6502	10
White (RAL9016)	2HOP6503	10
Black (RAL9714)	2HOP6504	10
Polished Chrome	2HOP6505	10
Polished Brass	2HOP6506	10

## Atlanta PAS24:2007+A2:2011 Security Lever/Lever - Long Screw Pitch



92PZ  
2 screw fix  
Monobloc construction / quick-fit inner  
Up to 70mm door thickness  
Duraplast coating provides 10 year surface guarantee on all finishes  
Solid extruded aluminium external backplate for supreme strength  
(levers, pads and inner backplate are all cast aluminium)  
Meets requirements of PAS24:2007+A2:2011  
Clearly marked as Secured by Design approved to deter would-be burglars  
Identical fixing centres to standard furniture  
No need to fit additional cylinder protection  
10 year mechanical & operational guarantee

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP6541	10
Gold Anodised (F3)	2HOP6542	10
White (RAL9016)	2HOP6543	10
Black (RAL9714)	2HOP6544	10
Polished Chrome	2HOP6545	10
Polished Brass	2HOP6546	10

# Door Handles - Security Yale

## Platinum Series Maximum Security Door Handles

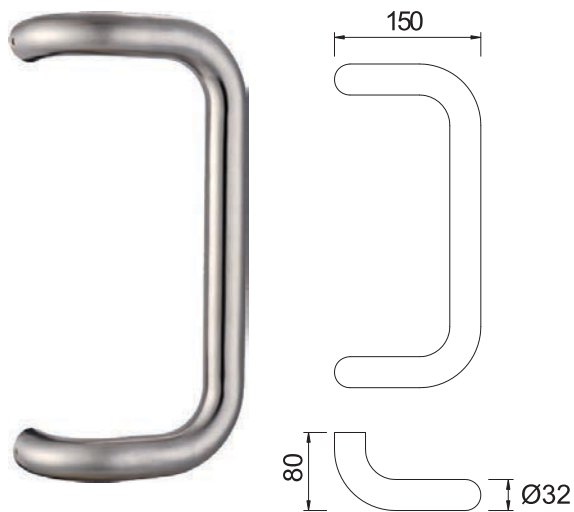


TS007 2 Star rated handle (KM532920)  
92PZ & 92/62PZ to suit most multi-point door locks including Lockmaster & Yale Mantis 3 & YS170  
Anti-grip chamfered edges to protect against mole grip attack  
2 screw fix  
Supplied with fixings for PVCu, timber and composite doors  
Stainless steel hybrid design for marine grade corrosion resistance  
Accredited to BS EN 1906:2010 grade 4 (200,000 cycles/480 hours neutral salt spray exposure)  
M6 stainless steel fixings for improved strength & security  
Identical fixing centres to standard long backplate furniture  
No need to fit additional cylinder protection  
Clearly marked as Kitemark 2 star security handle to deter would-be burglars  
92/62PZ  
Offset versions feature snib

Finish	92PZ	92/62PZ	Box Qty
PVD Gold	2YDF0005	2YDF0015	10
PVD Polished Chrome	2YDF0006	2YDF0016	10

# Pull Handles greenteQ

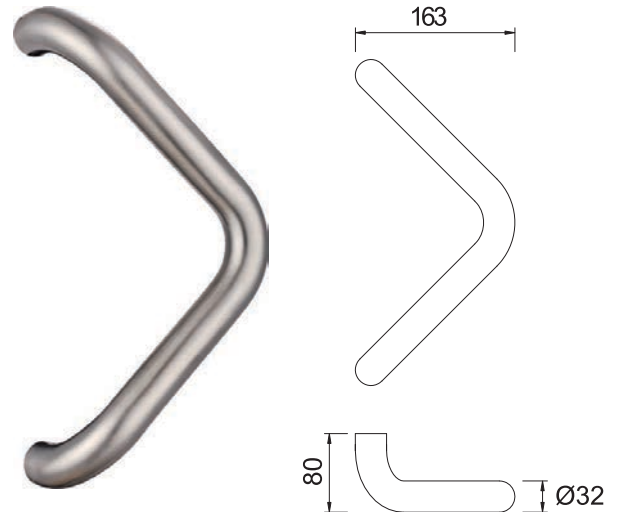
## TG 10.ER.GKL



Matt brushed stainless steel construction (grade 1.4301)  
Can be used on its own or fixed back to back in pairs  
Suitable for interior & exterior use  
Diameter of handle tube: 32mm  
BA15 fixing pack dependent on door material and application to be ordered separately (see page 40 for options)

Height	Width at Widest Point	VBH Code	Box Qty
300mm	150mm	2QHB3005	1
350mm	150mm	2QHB3006	1

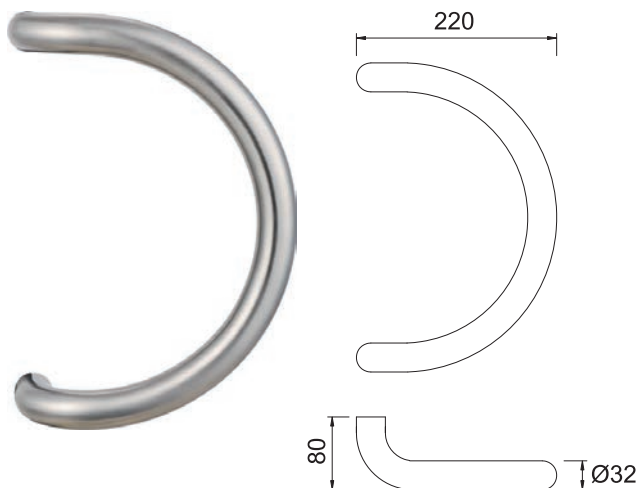
## TG 10.ER.GKW



Matt brushed stainless steel construction (grade 1.4301)  
Can be used on its own or fixed back to back in pairs  
Suitable for interior & exterior use  
Diameter of handle tube: 32mm  
BA15 fixing pack dependent on door material and application to be ordered separately (see page 40 for options)

Height	Width at Widest Point	VBH Code	Box Qty
300mm	163mm	2QHB3001	1
350mm	163mm	2QHB3002	1

## TG 10.ER.GKH



Matt brushed stainless steel construction (grade 1.4301)  
Can be used on its own or fixed back to back in pairs  
Suitable for interior & exterior use  
Diameter of handle tube: 32mm  
BA15 fixing pack dependent on door material and application to be ordered separately (see page 40 for options)

Height	Width at Widest Point	VBH Code	Box Qty
300mm	220mm	2QHB3003	1
350mm	220mm	2QHB3004	1

## TG 10.ER.GB



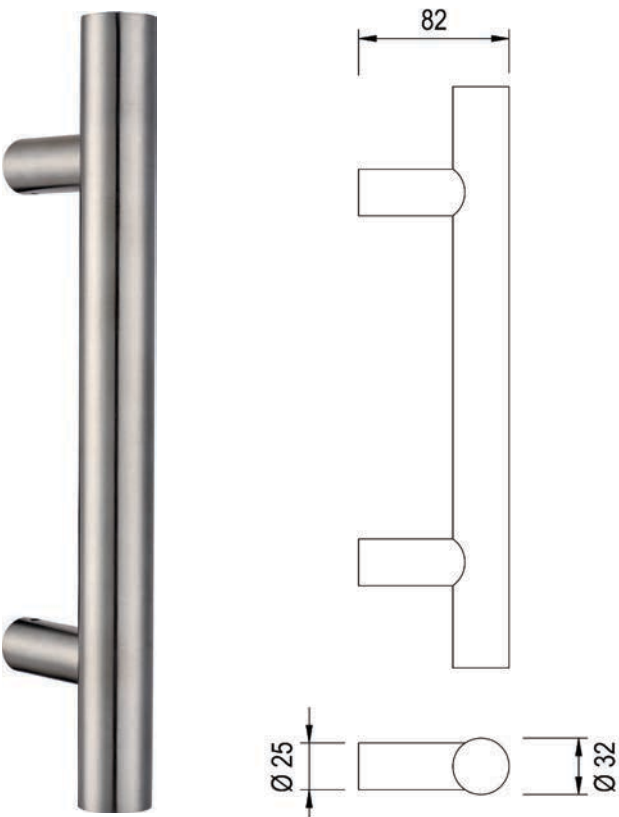
Matt brushed stainless steel construction (grade 1.4301)  
Can be used on its own or fixed back to back in pairs  
Suitable for interior & exterior use  
Diameter of handle tube: 32mm  
BA15 fixing pack dependent on door material and application to be ordered separately (see page 40 for options)

Height	VBH Code	Box Qty
300mm	2QHB3007	1
350mm	2QHB3008	1

# Pull Handles

## greenteQ

### TG 10.ER.GS

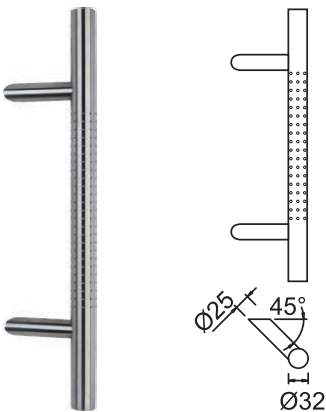


Image/Drawing shows version with 45° extended legs

Matt brushed stainless steel construction (grade 1.4301)  
Can be used on its own or fixed back to back in pairs  
Suitable for interior & exterior use  
Diameter of handle tube: 32mm  
Diameter of legs: 25mm  
Available with standard 90°, 45° and 45° extended legs  
BA15 fixing pack dependent on door material and application to be ordered separately (see page 40 for options)

Overall Length/ Fixing Centres	90° Legs	45° Legs	45° Ext Legs	Box Qty
330mm/210mm	2QHB3010	2QHB3060	2QHB3070	1
400mm/300mm	2QHB3011	2QHB3061	2QHB3071	1
500mm/300mm	2QHB3012	2QHB3062	2QHB3072	1
600mm/400mm	2QHB3013	2QHB3063	2QHB3073	1
800mm/560mm	2QHB3014	2QHB3064	2QHB3074	1
1000mm/700mm	2QHB3015	2QHB3065	2QHB3075	1
1200mm/900mm	2QHB3016	2QHB3066	2QHB3076	1
1400mm/1000mm	2QHB3017	2QHB3067	2QHB3077	1
1600mm/1200mm	2QHB3018	2QHB3068	2QHB3078	1
1800mm/1300mm	2QHB3019	2QHB3069	2QHB3079	1

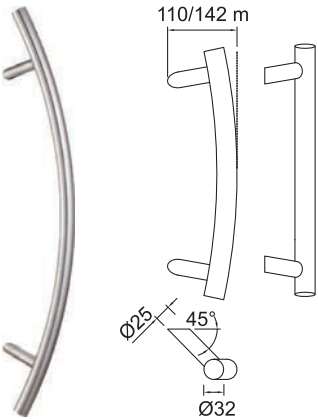
### TG 11.ER.GS 45°



Matt brushed stainless steel construction (grade 1.4301)  
Can be used on its own or fixed back to back in pairs  
Suitable for interior & exterior use  
Diameter of handle tube: 32mm  
Diameter of legs: 25mm  
BA15 fixing pack dependent on door material and application to be ordered separately (see page 40 for options)

Overall Length/Fixing Centres	VBH Code	Box Qty
400mm/300mm	2QHB3020	1
500mm/300mm	2QHB3021	1
600mm/400mm	2QHB3022	1

### TG 12.ER

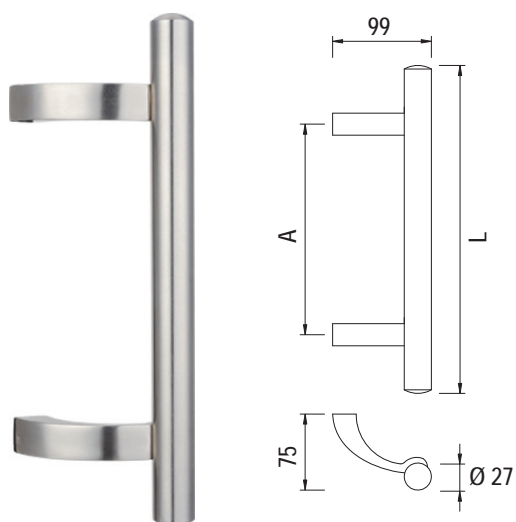


Matt brushed stainless steel construction (grade 1.4301)  
Can be used on its own or fixed back to back in pairs  
Suitable for interior & exterior use  
Diameter of handle tube: 32mm  
Diameter of legs: 25mm  
Available with standard 90° and 45° legs  
BA15 fixing pack dependent on door material and application to be ordered separately (see page 40 for options)

Overall Length/Fixing Centres	Width at Widest Point of Curve (90°/45° versions)	90° Legs	45° Legs	Box Qty
400mm/300mm	52/110mm	2QHB3023	2QHB3025	1
800mm/695mm	117/142mm	2QHB3024	2QHB3026	1

# Pull Handles greenteQ

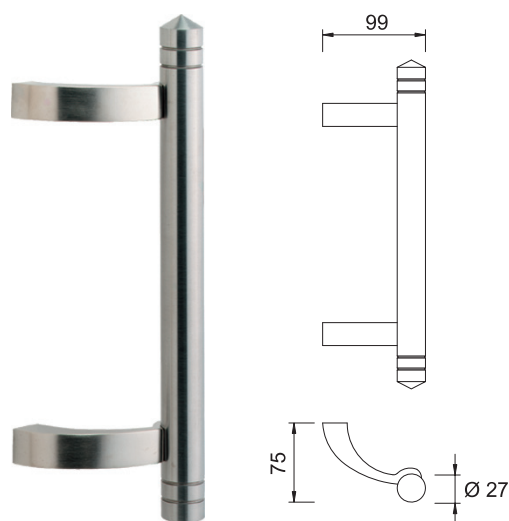
## TG 189.ER.GKS



Matt brushed stainless steel construction (grade 1.4301)  
Can be used on its own or fixed back to back in pairs  
Suitable for interior & exterior use  
Diameter of handle tube: 27mm  
No. 5 or 7 fixing pack dependent on door material and application  
to be ordered separately - see below

Length/Fixing Centres	Width	VBH Code	Box Qty
320mm/210mm	99mm	2QHB3040	1

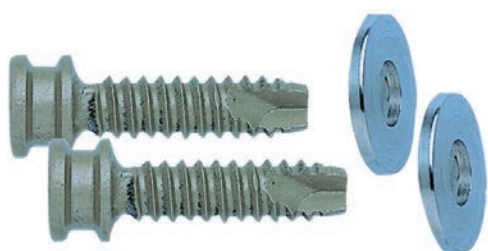
## TG 191.ER.GKS



Matt brushed stainless steel construction (grade 1.4301)  
Can be used on its own or fixed back to back in pairs  
Suitable for interior & exterior use  
Diameter of handle tube: 27mm  
No. 5 or 7 fixing pack dependent on door material and application  
to be ordered separately - see below

Length/Fixing Centres	Width	VBH Code	Box Qty
315mm/210mm	99mm	2QHB3041	1

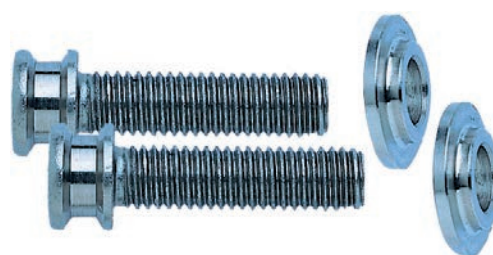
## No. 5



For single sided INVISIBLE fixing  
Fixing material: galvanised steel  
Door material: timber (composite), PVCu  
Thread dimension: 8 x 35mm  
Suits handle types: TG 189, TG 191  
Supplied in a set of 2 with shims

Description	VBH Code	Box Qty
No.5 Fixing Kit	2QHB3042	1 Set

## No. 7



For single sided INVISIBLE fixing  
Fixing material: galvanised steel  
Door material: aluminium  
Thread dimension: M8 x 30mm  
Suits handle types: TG 189, TG 191  
Supplied in a set of 2 with shims

Description	VBH Code	Box Qty
No.7 Fixing Kit	2QHB3043	1 Set

# Fixing Kits for Pull Handles greenteQ

Fixing Kits are used to fix greenteQ Pull Handles onto a variety of door materials

The correct kit should be selected according to Pull Handle, door material and whether the handle is used as a single or a back to back pair

## BA 15.EUS.H/K/A



BA15 Type

For single sided INVISIBLE fixing

Fixing material: galvanised steel

Door material: timber (composite), PVCu, aluminium

Bore diameter: 10mm

Suits handle types: TG 10, TG 11, TG 12

Supplied individually

Length	VBH No	Box Qty
20mm	2QHB3031	1 Piece
25mm	2QHB3032	1 Piece
30mm	2QHB3033	1 Piece
35mm	2QHB3034	1 Piece
45mm	2QHB3035	1 Piece
55mm	2QHB3036	1 Piece
60mm	2QHB3037	1 Piece
65mm	2QHB3038	1 Piece

## BA 15.ES.H/K/A



BA15 Type

For single sided Thru-fixing

Fixing material: stainless steel, galvanised steel & brass

Door material: timber (composite), PVCu, aluminium

Door thickness: up to 80mm

Suits handle types: TG 10, TG 11, TG 12

Supplied in a set of 2

Description	VBH No	Box Qty
Fixing Kit	2QHB3029	1 Set

## BA 15.ES.G



BA15 Type

For single sided Thru-fixing

Fixing material: galvanised steel, brass & plastic

Door material: glass

Door thickness: 8 - 12mm

Bore diameter: 13mm

Suits handle types: TG 10, TG 11, TG 12

Supplied in a set of 2

Description	VBH No	Box Qty
Fixing Kit for Glass	385.333/0002	1 Set

## BA 15.EU.H



BA15 Type

For single sided INVISIBLE fixing

Fixing material: galvanised steel & brass

Door material: timber (composite)

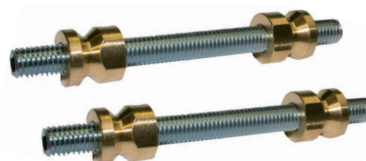
With Rampa-bushing M8/14.5 x 25mm

Suits handle types: TG 10, TG 11, TG 12

Supplied in a set of 2

Description	VBH No	Box Qty
Fixing Kit	2QHB3028	1 Set

## BA 15.PR.H/K/A



BA15 Type

For back to back fixing

Fixing material: galvanised steel & brass

Door material: timber (composite), PVCu, aluminium

Door thickness: up to 80mm

Bore diameter: M8

Suits handle types: TG 10, TG 11, TG 12

Supplied in a set of 2

Description	VBH No	Box Qty
Fixing Kit	2QHB3030	1 Set

## BA 15.PR.G



BA15 Type

For back to back fixing

Fixing material: galvanised steel, brass & plastic

Door material: glass

Door thickness: 8 - 12mm

Bore diameter: 13mm

Suits handle types: TG 10, TG 11, TG 12

Supplied in a set of 2

Description	VBH No	Box Qty
Fixing Kit for Glass	385.333/0001	1 Set

Escutcheons

The European greenteQ range includes many different types of cylinder escutcheon. Options include security and standard, circular, rectangular, radiused, singles, pairs and much more.

All are available to VBH (GB) customers. Please visit [www.greenteq.info](http://www.greenteq.info) for more information on the range or call us for a link

The options here are examples of the styles available

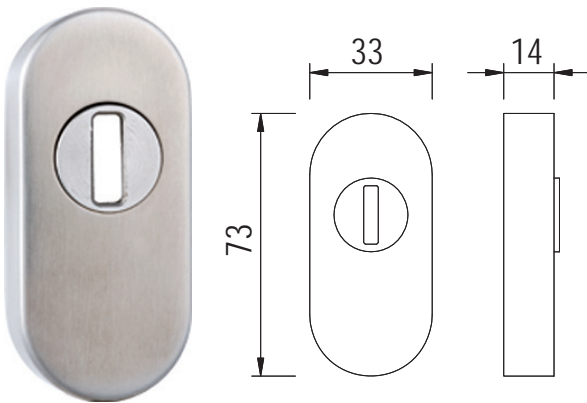
Security Escutcheon Pair ZA PZ 14mm ER



Matt brushed stainless steel (grade 1.4301)  
Internal dimensions: 8 x 52mm diameter  
Door thickness: 67 - 72mm  
Supplied as a pair complete with 2 No. M6 x 80mm screws

Description	VBH Code	Box Qty
Escutcheon Pair	2QHB3500	10 Pr

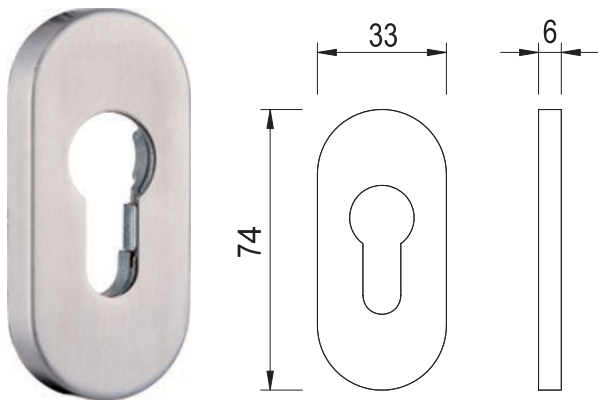
Clip-on Escutcheon with Cylinder Cover ZA Oval 14mm ER



greenteQ escutcheons with cylinder cover for entrance doors, to combine with pull handles and lever handles  
14mm thick for 5-10mm cylinder protrusion  
Matt brushed stainless steel  
PZ keyhole  
Includes screws

Description	VBH Code	Box Qty
Escutcheon	2QHB3508	10

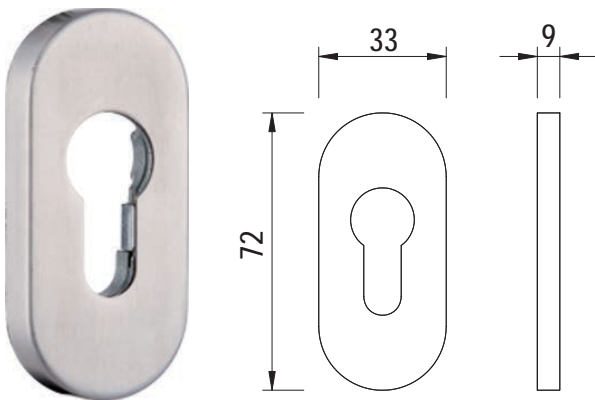
Clip-on Escutcheon PZ Oval 6mm ER



greenteQ escutcheons for entrance doors, to combine with pull handles and lever handles  
6mm thick  
Matt brushed stainless steel  
PZ keyhole  
Includes screws

Description	VBH Code	Box Qty
Escutcheon	359.542/6500	10

Clip-on Escutcheon Oval 9mm ER



greenteQ escutcheons for entrance doors to combine with pull handles and lever handles  
9mm thick  
Matt brushed stainless steel  
PZ keyhole  
Includes screws

Description	VBH Code	Box Qty
Escutcheon	354.412/6500	10

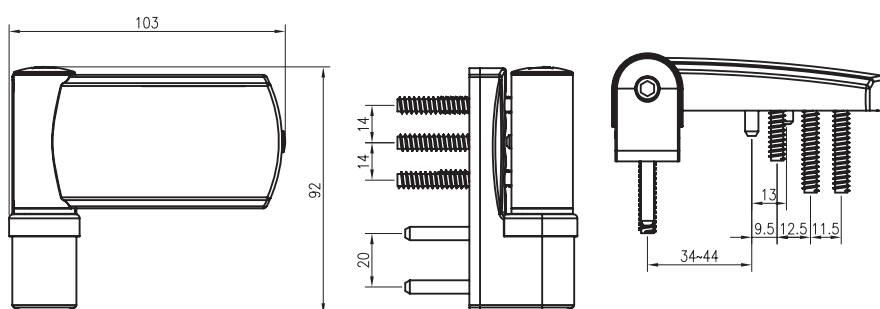


# Door Hinges for Rebated Doors greenteQ

## Sigma Flag Hinge



Max sash weight: 100Kg with 2 hinges  
Lateral adjustment: +/-5mm  
Height adjustment: +/-1mm  
Compression adjustment: +/-0.75mm  
Complies with EN1935:2002  
Adjustment gap cover  
Allows 190° opening  
Hinges are supplied with all covers and fixings



Upstand	White RAL9016	White** RAL9016	Brown RAL8019	Tan RAL8003	Black RAL9005	PVD Gold	Polished Chrome	Satin Chrome	Box Qty
13.5-16.5mm*	2QDH0001	2QDH0061	2QDH0002	2QDH0003	2QDH0004	2QDH0005	2QDH0006	2QDH0007	24
18.5-21.5mm*	2QDH0011	2QDH0071	2QDH0012	2QDH0013	2QDH0014	2QDH0015	2QDH0016	2QDH0017	24

\*Higher upstands can be catered for by fitting packers under the frame body

\*\*Bulk trays of 24 hinges for easy handling on the work bench

## Sigma Under Packers



Contoured packers have a flat base and contoured top to sit between hinge and profile.

If the door profile has an upstand greater than the contoured packer provides, a stackable packer can also be fitted to provide an additional 3mm between hinge and contoured packer.

Description	VBH Code	Box Qty
1mm Contoured Packer White	2QDH0021	100
2mm Contoured Packer White	2QDH0022	100
3mm Contoured Packer White	2QDH0023	100
4mm Contoured Packer White	2QDH0024	100
5mm Contoured Packer White	2QDH0025	100
3mm Stackable Packer White	2QDH0029	100
1mm Contoured Packer Black	2QDH0031	100
2mm Contoured Packer Black	2QDH0032	100
3mm Contoured Packer Black	2QDH0033	100
4mm Contoured Packer Black	2QDH0034	100
5mm Contoured Packer Black	2QDH0035	100
3mm Stackable Packer Black	2QDH0039	100
2mm Contoured Packer Tan	2QDH0042	100

## Spares



Description	VBH Code	Box Qty
White Cover Pack	2QDH0054	1
Black Cover Pack	2QDH0055	1
Tan Cover Pack	2QDH0056	1
Fixing Screw Pack (40/28mm)	2QDH0053	1
Fixing Screw Pack (50/28mm)	2QDH0052	1

## Fitting Jig



Description	VBH Code	Box Qty
Aluminium jig	2QDH0050	1
Plastic jig	2QDH0051	1

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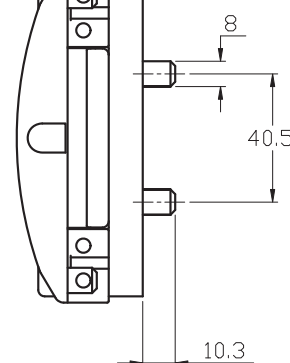
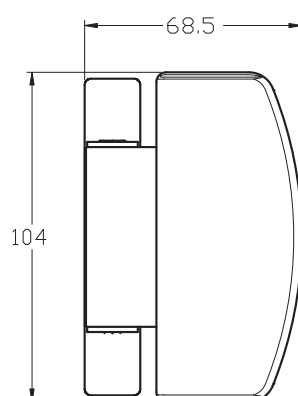
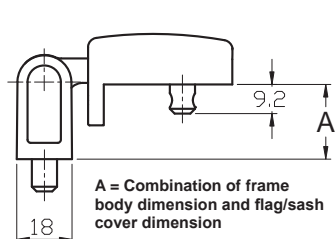
## Notes

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# Door Hinges for Rebated & Flush Doors

## greenteQ

### Sigma - Hybrid Hinge for Rebated Doors



Ample 3D adjustment  
80Kg sash weight  
13-28mm sash upstand (no frame packers)  
8 colours to match greenteQ suite  
Suits inward and outward opening doors  
Only 5 main components

Description	White RAL9016	Brown RAL8019	Tan RAL8003	Black RAL9005	PVD Gold	Polished Chrome	Satin Chrome	Smokey Chrome	Box Qty
Frame Body 16.5mm	2QHH0001	2QHH0002	-	-	2QHH0005	2QHH0006	2QHH0007	2QHH0008	30
Frame Body 20.5mm	2QHH0021	2QHH0022	2QHH0023	2QHH0024	2QHH0025	2QHH0026	2QHH0027	2QHH0028	30
Frame Body 24.5mm	2QHH0031	2QHH0032	2QHH0033	2QHH0034	2QHH0035	2QHH0036	2QHH0037	2QHH0038	30

Description	White RAL9016	Brown RAL8019	Tan RAL8003	Black RAL9005	PVD Gold	Polished Chrome	Satin Chrome	Smokey Chrome	Box Qty
Flag/Sash Cover +/-0.5mm	2QHH0041	2QHH0042	2QHH0043	2QHH0044	2QHH0045	2QHH0046	2QHH0047	2QHH0048	30
Flag/Sash Cover +/-1.5mm	2QHH0061	2QHH0062	2QHH0063	2QHH0064	2QHH0065	2QHH0066	2QHH0067	2QHH0068	30
Flag Sash Cover +/-3.5mm	2QHH0101	2QHH0102	-	2QHH0104	-	2QHH0106	2QHH0107	2QHH0108	30

### Sash Packers

Description	White RAL9016	Black RAL9005	Box Qty
45° Chamfer	2QHH0134	2QHH0144	500
50° Chamfer	2QHH0133	2QHH0143	500

Bespoke contoured sash packers are also available to suit a number of PVCu systems. Please contact VBH for details

### Fitting Jigs

Description	VBH Code	Box Qty
15mm Step Height	2QHH0121	1
20mm Step Height	2QHH0122	1

Match the correct frame body and flag/sash cover for your profile  
e.g. For an 18mm sash upstand select a 16.5mm frame body with a +/- 1.5mm flag/sash cover  
Please note image shows assembled hinge

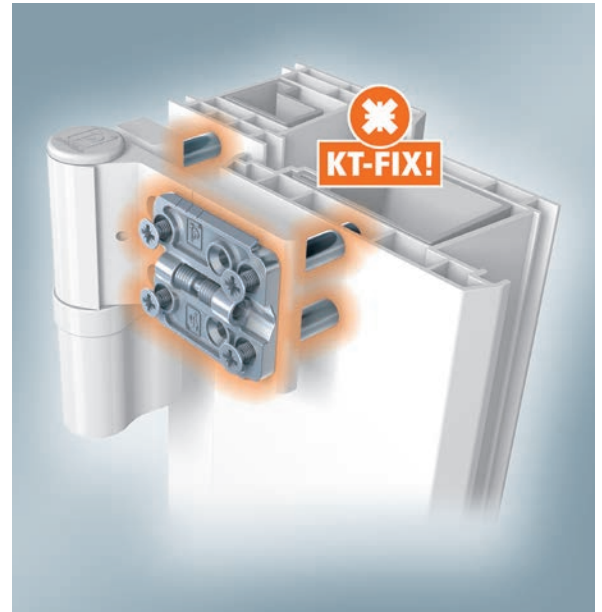
# Door Hinges for Rebated Doors

## Dr. Hahn

### KT-EV with KT-Fix

Max sash weight: 120Kg  
 Lateral adjustment: +/-5mm  
 Height adjustment: +3mm  
 Compression adjustment: +/- 2.5mm  
 Covers sash upstands from 15 - 27mm  
 Extruded aluminium construction  
 SKG approved - 2 stars  
 KT-Fix - a unique fastening system that features location support plugs that spread as the M5 screws are tightened to create an extremely strong fixing

Sash Upstand	White RAL9016	Dk Brown RAL8077	Box Qty
15 - 20mm	2DRH0070	2DRH0071	1/24
18 - 23mm	2DRH0074	2DRH0075	1/24
22 - 27mm	2DRH0078	2DRH0079	1/24
15 - 20mm	2DRH0082	2DRH0083	24*
18 - 23mm	2DRH0086	2DRH0087	24*
22 - 27mm	2DRH0090	2DRH0091	24*



### Fitting Jigs

Description	Dr.Hahn Code	Box Qty
Single Fitting iJ g Without Clamp	T315A0F06	1
Single Fitting iJ g With Clamp	T315A0F07	1

### KT-EV

Max sash weight: 120Kg  
 Lateral adjustment: +/-5mm  
 Height adjustment: +3mm  
 Compression adjustment: +/- 2.5mm  
 Covers sash upstands from 15 - 23mm  
 Extruded aluminium construction  
 SKG approved - 2 stars  
 Bulk-packed in 24s to speed up the fitting process

Sash Upstand	White RAL9016	Brown RAL8077	Tan RAL8003	Box Qty
15 - 20mm	2DRH0020	2DRH0021	2DRH0022	24*
18 - 23mm	2DRH0025	2DRH0026	2DRH0027	24*

### Fitting Jigs

Description	Dr.Hahn Code	Box Qty
Single Fitting iJ g Without Clamp	T315A0000	1
Single Fitting iJ g With Clamp	T315A0001	1
3 iJ gs on 2.3m Bar	T405A0000	1



\* Although the Unit of Measure is 1 (hinge), KT-EV under these codes can only be supplied in multiples of 24 due to the packaging method

# Door Hinges for Rebated Doors

## Dr Hahn & Haps

### Dr Hahn - KT-SV

Max sash weight: 80Kg  
 Lateral adjustment: +4/-3mm  
 Height adjustment: +3mm  
 Compression adjustment: +/- 2.5mm  
 Covers sash upstands from 15 - 23mm  
 Extruded aluminium construction  
 CE-certified: Hinge class 12  
 Bulk-packed in 24s to speed up the fitting process

Sash Upstand	White RAL9016	Brown RAL8077	Tan RAL8003	Box Qty
15 - 20mm	2DRH0010	2DRH0011	2DRH0012	24*
18 - 23mm	2DRH0015	2DRH0016	2DRH0017	24*

### Fitting Jig Options

Description	Dr.Hahn Code	Box Qty
Single Fitting jig Without Clamp	T315A0000	1
Single Fitting jig With Clamp	T315A0001	1
3 jigs on 2.3m Bar	T415A0001	1

\* Although the Unit of Measure is 1 (hinge), KT-SV can only be supplied in multiples of 24 due to the packaging method



### Haps - P100

Max sash weight: 100Kg with 2 hinges  
 Lateral adjustment: +/- 5mm  
 Height adjustment: +4mm  
 Compression adjustment: +/- 0.75mm

Sash Upstand	White RAL9003	Gold Anodised	Brown RAL8019	Silver Anodised	Box Qty
16-18.5mm	2HSV0411	2HSV0413	2HSV0412	2HSV0416	1/50
21-23.5mm	2HSV0414	#	#	#	1/50

### Fitting Jig

Description	VBH Code	Box Qty
P100 jig	2HSV0220	1



# Door Hinges for Rebated Doors Haps

## P200 - in 'Work Bench'\* Packaging

Max sash weight: 120Kg with 2 hinges

Lateral adjustment: +/- 5mm

Height adjustment: +4mm

Compression adjustment: +/- 0.75mm

SKG approved

BBA approved

Sash Upstand	White RAL9003	Brown RAL8077	Tan RAL8003	Box Qty
15.5-18mm	2HSV1011	2HSV1013	2HSV1014	24
17.5-20mm	2HSV1021	2HSV1022	-	24

## Top Cover Caps for 'Work Bench'\* Packed Hinges

Description	White	Black	Box Qty
Top Cover Cap	2HSV0312	2HSV0313	1300

## Fitting Jig

Description	VBH Code	Box Qty
P200 jig	2HSV0308	1



**\*'Work Bench' packaging speeds up the fitting process. There is no wasted packaging and the fitter can access the hinge components on his bench in bulk trays of 24 of each component. Please note that top covers should be ordered separately.**

## P80

Max sash weight: 80Kg with 2 hinges

Lateral adjustment: +/- 5mm

Height adjustment: +4mm

Compression adjustment: +/- 0.75mm

Sash Upstand	White RAL9003	Gold Anodised	Brown RAL8019	Silver Anodised	Box Qty
16-18.5mm	2HSV0401	2HSV0409	2HSV0402	2HSV0408	1/50

## Fitting Jig

Description	VBH Code	Box Qty
P80 jig	2HSV0178	1



# Door Hinges for Rebated Doors

## Roto

### DoorLine Solid 150P



Max sash weight: 120Kg  
 Lateral adjustment: +/-5mm  
 Height adjustment: +/-1mm  
 Compression adjustment: +/-1mm  
 Anti-lift feature

Sash Upstand	White RAL9016	Gold RAL1036	Brown RAL8077	Silver	Brown RAL8017	Caramel RAL8003	Cream RAL9001	Beige RAL1011	Black-Brown RAL8022	Box Qty
14-17.5mm	2RDH0150	2RDH0152	2RDH0151	2RDH0153	-	-	-	-	-	24
17-20.5mm	2RDH0165	2RDH0167	2RDH0166	2RDH0168	2RDH0172	2RDH0171	-	-	-	24
20-23.5mm	2RDH0180	2RDH0182	2RDH0181	2RDH0183	-	-	2RDH0184	2RDH0185	2RDH0188	24

### Frame Underpackers

Size	White	Black	Box Qty
1.5mm	2RDH0141	2RDH0142	100

### Fitting Jig & Adjustment Key

Description	VBH Code	Box Qty
150P jig	2RDH0148	1
Compression Adjustment Key	2RDH0149	1

### Spares

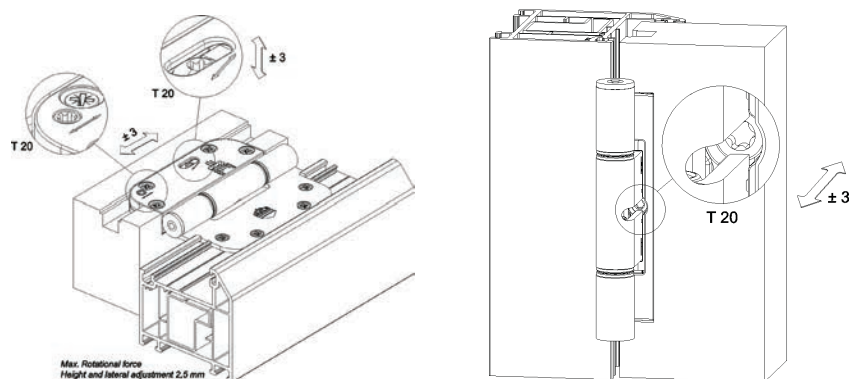
Description	White	Black	Box Qty
Cover Cap Set	2RDH0143	2RDH0144	24



# Door Hinges for Flush Composite Doors

## Maco

### Pro Door T80C 3D Adjustable Hinge



Max sash weight: 80Kg

+/- 3mm lateral, height and compression adjustments

Security tested to PAS24:2012

RAL colour hinges suitable for outward opening doors (with optional security pin fitted)

MACO Secure Plus guarantee scheme

Description	White RAL9016	Black RAL9005	Grey Aluminium RAL9007	Polished Gold	Polished Chrome	Bright Brone	Box Qty
Individual	2MFH0001	2MFH0002	2MFH0003	2MFH0004	2MFH0005	2MFH0006	3*
Bulk	2MFH0016	2MFH0017	2MFH0018	2MFH0019	2MFH0020	2MFH0021	24*

Description	VBH Code	Box Qty*
Security Pin for Outward Open Doors	2MFH0030	100
T80C Fitting ù g	2MFH0031	1

\*Although the Unit of Measure is 1 (hinge), T80C can only be supplied in multiples of 3 or 24 (depending on the code ordered), due to the packaging method.

## Gamma

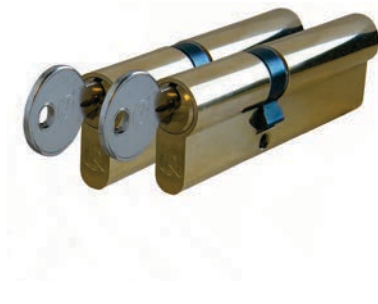
6 pin Anti-Drill/Anti-Pick

Over 100,000 differs

EN1303 Classification 16000C62

Open Profile - replacement keys available from high street

Supplied with 3 keys (except keyed alike pairs)



### Gamma Key/Key Double Cylinder

Size	Nickel	Brass	Box Qty
32/32	2QCY0001	#	10
32/35	2QCY0003	#	10
32/40	2QCY0005	#	10
32/50	2QCY0009	#	10
32/55	2QCY0011	#	10
32/60	2QCY0013	#	10
32/65	2QCY0055	#	10
32/70	2QCY0059	#	10
35/35	2QCY0015	2QCY0016	10
35/40	2QCY0017	#	10
35/45	2QCY0019	2QCY0020	10
35/50	2QCY0021	2QCY0022	10
35/55	2QCY0023	2QCY0024	10
35/60	2QCY0025	#	10
35/65	2QCY0057	#	10
40/40	2QCY0027	2QCY0028	10
40/45	2QCY0029	2QCY0030	10
40/50	2QCY0031	2QCY0032	10
40/55	2QCY0033	2QCY0034	10
40/60	2QCY0035	2QCY0036	10
45/45	2QCY0037	2QCY0038	10
45/50	2QCY0039	2QCY0040	10
45/55	2QCY0041	2QCY0042	10
45/60	2QCY0043	#	10
50/50	2QCY0045	2QCY0046	10

### Gamma Key/Key Double Cylinder Keyed Alike

Supplied in pairs complete with 6 keys

Size	Nickel	Brass	Box Qty
35/35	2QCY0515	2QCY0516	5 Pr
35/50	2QCY0521	2QCY0522	5 Pr
40/40	2QCY0527	2QCY0528	5 Pr
40/45	2QCY0529	2QCY0530	5 Pr
40/50	2QCY0539	2QCY0540	5 Pr
40/55	2QCY0533	2QCY0534	5 Pr
45/45	2QCY0537	2QCY0538	5 Pr
45/50	2QCY0531	2QCY0532	5 Pr
45/55	2QCY0541	2QCY0542	5 Pr
50/50	2QCY0545	2QCY0546	5 Pr

### Gamma Half Cylinder

Size	Nickel	Brass	Box Qty
-/32	2QCY0301	#	10
-/35	2QCY0315	2QCY0316	10
-/40	2QCY0327	2QCY0328	10
-/45	2QCY0337	2QCY0338	10
-/50	2QCY0345	#	10

### Key Blank

Description	VBH Code	Box Qty
Key Blank	2QCY0051	100

### Gamma Thumb Turn Double Cylinder

K denotes thumb turn (knob) side

Size	Nickel	Brass	Box Qty
K32/32	2QCY0701	#	10
K32/65	2QCY0755	#	10
K32/70	2QCY0759	#	10
K35/32	2QCY0803	#	10
K35/35	2QCY0715	2QCY0716	10
K35/45	2QCY0719	#	10
K35/55	2QCY0723	2QCY0724	10
K40/40	2QCY0727	2QCY0728	10
K40/45	2QCY0729	2QCY0730	10
K40/50	2QCY0731	2QCY0732	10
K40/55	2QCY0733	2QCY0734	10
K40/60	2QCY0735	2QCY0736	10
K45/40	2QCY0829	2QCY0830	10
K45/45	2QCY0737	2QCY0738	10
K45/50	2QCY0739	2QCY0740	10
K45/55	2QCY0741	2QCY0742	10
K50/40	2QCY0831	2QCY0832	10
K50/45	2QCY0839	2QCY0840	10
K50/50	2QCY0745	2QCY0746	10
K55/40	2QCY0833	2QCY0834	10
K55/45	2QCY0841	2QCY0842	10
K60/40	2QCY0835	2QCY0836	10
K65/32	2QCY0855	#	10
K70/32	2QCY0859	#	10

# Profile Cylinders

## Yale

### Superior

12 pin Anti-Snap, Anti-Bump, Anti-Drill, Anti-Pick 1-star profile cylinder

Anti-Drill pins and balls as standard

Anti-Snap on both sides so cylinder is not handed

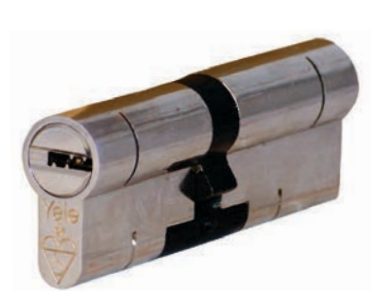
V-pins to resist bumping

Four Anti-Picks

TS007:2011 1-star Kitemark approved (KM559658)

EN1303 classification 16000C62

Supplied with 3 keys, except keyed alike pairs



#### Key/Key Double Cylinder

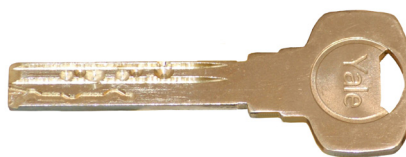
Supplied with 3 keys

Size	Nickel	Brass	Box Qty
30/30	2YCY0001	2YCY0002	20
30/40	2YCY0005	2YCY0006	20
30/45	2YCY0007	2YCY0008	20
30/50	2YCY0009	2YCY0010	20
35/35	2YCY0015	2YCY0016	20
35/45	2YCY0019	2YCY0020	20
35/50	2YCY0021	2YCY0022	20
35/55	2YCY0023	2YCY0024	20
40/40	2YCY0027	2YCY0028	20
40/45	2YCY0029	2YCY0030	20
40/50	2YCY0031	2YCY0032	20
40/55	2YCY0033	2YCY0034	20
40/60	2YCY0035	2YCY0036	20
45/45	2YCY0037	2YCY0038	20
45/50	2YCY0039	2YCY0040	20
45/55	2YCY0041	2YCY0042	20
50/50	2YCY0045	2YCY0046	20

#### Key/Key Double Cylinder Keyed Alike

Supplied with 6 keys

Size	Nickel	Brass	Box Qty
40/40	2YCY0527	2YCY0528	10 Pr
40/50	2YCY0531	2YCY0532	10 Pr
45/45	2YCY0537	2YCY0538	10 Pr
45/50	2YCY0539	2YCY0540	10 Pr
45/55	2YCY0541	2YCY0542	10 Pr
50/50	2YCY0545	2YCY0546	10 Pr



#### Key Blank

Description	VBH Code	Box Qty
Key Blank	2YCY0051	1

#### Thumb Turn Double Cylinder

K denotes inside thumb turn (Knob) side  
Supplied with 3 keys

Size	Nickel	Brass	Box Qty
K30/30	2YCY1001	2YCY1002	20
K35/35	2YCY1015	2YCY1016	20
K35/45	2YCY1019	2YCY1020	20
K35/55	2YCY1023	2YCY1024	20
K40/40	2YCY1027	2YCY1028	20
K40/50	2YCY1031	2YCY1032	20
K40/55	2YCY1033	2YCY1034	20
K45/45	2YCY1037	2YCY1038	20
K50/50	2YCY1045	2YCY1046	20
K45/35	2YCY1119	2YCY1120	20
K55/35	2YCY1123	2YCY1124	20
K50/40	2YCY1131	2YCY1132	20
K55/40	2YCY1133	2YCY1134	20

Coming Soon!  
3-Star Profile Cylinder.....





## Profile Cylinders

### Keyed Alike & Master Suite Service

In addition to supplying individually pinned profile cylinders and factory-produced keyed alike pairs, we also have industry-trained operatives who can produce our own keyed alike suites and master suites in-house.

The advantage of pinning in-house is that you have total flexibility in what comprises your suite. Subject to stock availability you can mix colours and sizes, with as many cylinders and keys in the suite as you wish.

Currently we can offer the following services:

#### Keyed Alike Suites

Kaba Gege AP1000 5 Pin Anti-Pick  
Kaba Gege AP1000+ 5 Pin Anti-Drill/Anti-Pick  
Kaba Gege AP1000+ 6 Pin Anti-Drill/Anti-Pick  
greenteQ Gamma 6 Pin Anti-Drill/Anti-Pick  
Yale Superior Anti-Snap/Anti-Bump/Anti-Drill/Anti-Pick

#### Master Suites

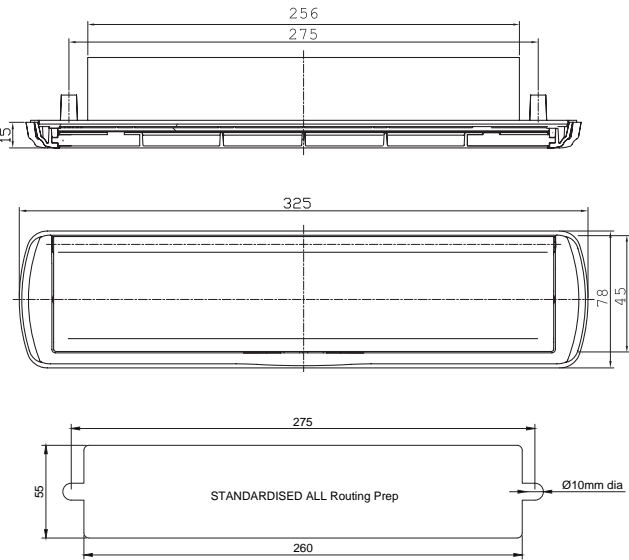
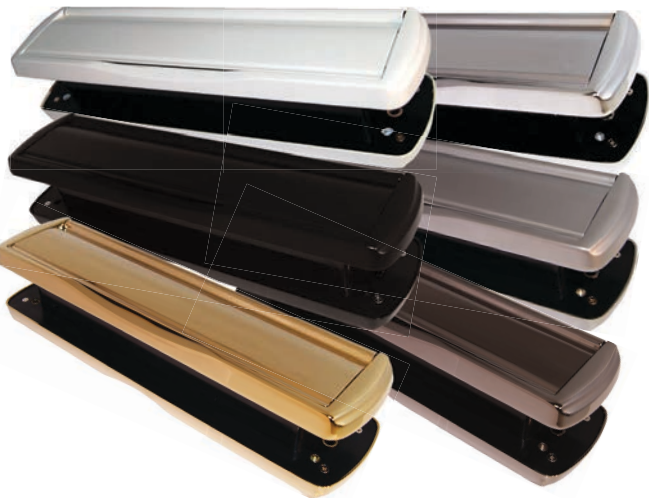
Kaba Gege AP1000 5 Pin Anti-Pick  
Kaba Gege AP1000+ 5 Pin Anti-Drill/Anti-Pick  
Kaba Gege AP1000+ 6 Pin Anti-Drill/Anti-Pick

#### Key Cutting

Kaba Gege AP1000 5 Pin Anti-Pick  
Kaba Gege AP1000+ 5 Pin Anti-Drill/Anti-Pick  
Kaba Gege AP1000+ 6 Pin Anti-Drill/Anti-Pick  
greenteQ Gamma 6 Pin Anti-Drill/Anti-Pick  
Yale Superior Anti-Snap/Anti-Bump/Anti-Drill/Anti-Pick

**Please contact your normal VBH sales office for a quote**

greenteQ Omega



All metal frame construction  
Suits 40-80mm mid-rails and composite doors  
Finishes suite with greenteQ furniture range  
Features greenteQ groove on flaps and curved ends  
Nylon brush seal to inside and weather seal to external flap  
180° opening (both sides)  
Supplied with M6 thru-fix screws or can be surface fixed  
Cushioned closing action  
Overall size: 325 x 78mm  
Internal Aperture: 249 x 38mm  
Door Prep: 260 x 55mm

Finish	VBH Code	Box Qty
White (RAL9016)	2QBX0001	12
Black (RAL9005)	2QBX0004	12
PVD Gold	2QBX0005	12
Polished Chrome	2QBX0006	12
Satin Chrome	2QBX0007	12
PVD Smokey Chrome	2QBX0008	12
Enduro Steel	2QBX0002	12
Antique Black	2QBX0003	12

Yale Postmaster Platinum



Marine grade 316 stainless steel construction on all external components  
480 hours corrosion resistance (tested in accordance to BS EN 1670)  
180° opening tested to 25,000 cycles  
Suits doors from 20 - 80mm thick  
Draught proofing & integral brush deliver full weather proofing  
Design & finishes suite with Yale Platinum Series door handles  
Postal aperture compliant with EN 13724  
20 year Yale mechanical and surface finish guarantee  
Overall size: 321 x 65mm  
Aperture size: 253 x 35mm

Finish	20-40mm DT	40-80mm DT	Box Qty
PVD Polished Gold	2YDF0102	2YDF0100	10
PVD Polished Chrome	2YDF0103	2YDF0101	10

# Letterboxes

## Yale (Paddock)

### Slimmaster



Slim design for narrow mid-rails  
 Telescopic sleeves  
 All aluminium construction  
 Concealed steel springs  
 Closed cell foam seal  
 Supplied without fixing screws  
 90° opening  
 Overall Size : 316 x 50mm  
 Aperture Size : 269 x 38mm  
 Door Thickness: 36-70mm

Finish	VBH Code	Box Qty
White	2PDK0012	25
Etched Gold	2PDK0011	25
Polished Gold	2PDK0014	25
Gold Anodised	2PDK0017	25
Satin Anodised	2PDK0010	25
Black	2PDK0013	25

### Yaleseal - 10 Inch



20/20 version suitable for 18-38mm panels  
 40/40 version suitable for 38-78mm mid-rails  
 Aluminium flap with moulded ABS frame  
 Nylon brush seal to inside & weather seal to external flap  
 Supplied with 2 fixing screws  
 147° opening (external)  
 BS2911 compliant  
 Overall size : 265 x 70mm  
 Door aperture: 216 x 38mm

Flap/Frame Colour	18-38mm DT	38-78mm DT	Box Qty
White/Black	2WBX0010	2WBX0001	25
White/White	2WBX0015	2WBX0006	25
Polished Gold/Black	-	2WBX0007	25
Satin Anodised/Black	2WBX0011	2WBX0002	25
Gold Anodised/Black	2WBX0014	-	25
Black/Black	2WBX0013	2WBX0004	25

### P209 Postmaster



All aluminium construction  
 Telescopic sleeves  
 Concealed steel springs  
 Nylon brush seal to inside & weather seal to external flap  
 Supplied with thru-fix screws  
 Flaps open to 130°  
 A4 aperture to BS2911  
 Overall Size : 303 x 70mm  
 Aperture Size : 261 x 45mm  
 Door Thickness: 40-80mm\*

Finish	VBH Code	Box Qty
White	2PDK0353	25
Polished Gold	2PDK0352	25
Satin Anodised	2PDK0351	25
Black	2PDK0354	25

\*Postmaster letterboxes covering door thickness between 20-40mm are available to special order, subject to manufacturer's minimum order requirements. Please ask us for a quote.

### Yaleseal - 12 Inch



20/20 version suitable for 18-38mm panels  
 40/40 version suitable for 38-78mm mid-rails  
 Aluminium flap with moulded ABS frame  
 Nylon brush seal to inside & weather seal to external flap  
 Supplied with 2 fixing screws  
 147° opening (external)  
 BS2911 compliant  
 Overall size : 304 x 70mm  
 Door aperture: 254 x 38mm

Flap/Frame Colour	18-38mm DT	38-78mm DT	Box Qty
White/Black	2PDK0303	2PDK0323	25
White/White	2PDK0309	2PDK0333	25
Polished Gold/Black	2PDK0305	2PDK0325	25
Polished Gold/White	-	2PDK0335	25
Polished Silver/Black	2PDK0306	2PDK0326	25
Polished Chrome/Black	2PDK0308	2PDK0328	25
Satin Anodised/Black	2PDK0301	2PDK0321	25
Gold Anodised/Black	2PDK0302	2PDK0322	25
Black/Black	2PDK0304	2PDK0324	25





## greenteQ Door Furniture

### greenteQ Kappa Door Knockers & Viewers

greenteQ Kappa door knockers have been designed with good looks, strength and fitter and user friendliness in mind.

The key feature is a quick fit fixing method that significantly cuts the assembly time. Simply attach the fixing bracket to the door face (using fasteners appropriate to the door material), then clip the knocker onto the bracket for a secure, permanent fit.

Not only is this great for the door manufacturer, but the end user benefits from not having unsightly capping nuts on the internal face of the door, which carry the risk of rust staining if the threaded fixing bar is made of steel, as is often the case.

Kappa knockers are available in Classic Urn and Slim Urn designs (with or without a cut-out for the Kappa 160° Door Viewer) Pony Tail and Doctor designs.

Kappa knockers are available in PVD gold, polished, satin and smokey chromes, white and black, and colour match perfectly with all other greenteQ door and window furniture products.

#### Benefits at a glance:

- Quick fit fixing method
- Part of the greenteQ colour-matched suite
- Robust, yet attractive
- Classic or Slim Urn options, with or without cut-out
- Pony Tail and Doctor allow greater choice
- Optional Door Viewer for 35-85mm thick doors



# Door Knockers and Accessories greenteQ

## Kappa 6 Inch Classic Urn Door Knocker With & Without Hole



Finish	Without Hole	With Hole	Box Qty
White (RAL9016)	2QDF0001	2QDF0006	1
Black (RAL9005)	2QDF0002	2QDF0007	1
PVD Gold	2QDF0004	2QDF0009	1
Polished Chrome	2QDF0003	2QDF0008	1
Satin Chrome	2QDF0005	2QDF0010	1
Smokey Chrome	2QDF0021	2QDF0026	1

## Kappa Door Viewers



Description	35-60mm	60-85mm	Box Qty
160° White (RAL9016)	2QDF0101	2QDF0111	1
160° Black (RAL9005)	2QDF0102	2QDF0112	1
160° PVD Gold	2QDF0104	2QDF0114	1
160° Pol Chrome	2QDF0103	2QDF0113	1
160° Satin Chrome	2QDF0105	2QDF0115	1

## Kappa Slim Urn Door Knocker With & Without Hole



Finish	Without Hole	With Hole	Box Qty
White (RAL9016)	2QDF0011	2QDF0016	1
Black (RAL9005)	2QDF0012	2QDF0017	1
PVD Gold	2QDF0014	2QDF0019	1
Polished Chrome	2QDF0013	2QDF0018	1
Satin Chrome	2QDF0015	2QDF0020	1
Smokey Chrome	2QDF0031	2QDF0036	1

## Kappa Door Viewer Inner Covers



Finish	VBH Code	Box Qty
White (RAL9016)	2QDF0121	25/100
Black (RAL9005)	2QDF0122	25/100
Polished Chrome	2QDF0123	25/100
PVD Gold	2QDF0124	25/100
Satin Chrome	2QDF0125	25/100



Kappa Doctor Knocker



Finish	VBH Code	Box Qty
White (RAL9016)	#	1
Black (RAL9005)	#	1
PVD Gold	2QDF0064	1
Polished Chrome	2QDF0063	1
Satin Chrome	2QDF0065	1
Smokey Chrome	2QDF0066	1

Kappa Pony Tail Knocker



Finish	VBH Code	Box Qty
White (RAL9016)	#	1
Black (RAL9005)	#	1
PVD Gold	2QDF0084	1
Polished Chrome	2QDF0083	1
Satin Chrome	2QDF0085	1
Smokey Chrome	2QDF0086	1

# This is not a stock item. We MAY be able to obtain it on a special order basis. Please ask.

# Door Furniture and Accessories

## Kappa 3 Inch Door Numerals and Letters



### Numerals

Finish	1	2	3	4	5	6/9	7	8	0
White	2QDF0311	2QDF0321	2QDF0331	2QDF0341	2QDF0351	2QDF0361	2QDF0371	2QDF0381	2QDF0301
Black	2QDF0314	2QDF0324	2QDF0334	2QDF0344	2QDF0354	2QDF0364	2QDF0374	2QDF0384	2QDF0304
Anthracite Grey	2QDF0310	2QDF0320	2QDF0330	2QDF0340	2QDF0350	2QDF0360	2QDF0370	2QDF0380	2QDF0300
PVD Gold	2QDF0315	2QDF0325	2QDF0335	2QDF0345	2QDF0355	2QDF0365	2QDF0375	2QDF0385	2QDF0305
Satin Chrome	2QDF0317	2QDF0337	2QDF0337	2QDF0347	2QDF0357	2QDF0367	2QDF0377	2QDF0387	2QDF0307
PVD Smokey Chrome	2QDF0318	2QDF0328	2QDF0338	2QDF0348	2QDF0358	2QDF0368	2QDF0378	2QDF0388	2QDF0308
Enduro Steel	2QDF0312	2QDF0322	2QDF0332	2QDF0342	2QDF0352	2QDF0362	2QDF0372	2QDF0382	2QDF0302
Antique Black	2QDF0313	2QDF0323	2QDF0333	2QDF0343	2QDF0353	2QDF0363	2QDF0373	2QDF0383	2QDF0303
Polished Stainless Steel	2QDF0316	2QDF0326	2QDF0336	2QDF0346	2QDF0356	2QDF0366	2QDF0376	2QDF0386	2QDF0306
Brushed Stainless Steel	2QDF0319	2QDF0329	2QDF0339	2QDF0349	2QDF0359	2QDF0369	2QDF0379	2QDF0389	2QDF0309

### Letters

Finish	A	B	C	D
White	2QDF0401	2QDF0411	2QDF0421	2QDF0431
Black	2QDF0404	2QDF0414	2QDF0424	2QDF0434
Anthracite Grey	2QDF0400	2QDF0410	2QDF0420	2QDF0430
PVD Gold	2QDF0405	2QDF0415	2QDF0425	2QDF0435
Satin Chrome	2QDF0407	2QDF0417	2QDF0427	2QDF0437
PVD Smokey Chrome	2QDF0408	2QDF0418	2QDF0428	2QDF0438
Enduro Steel	2QDF0402	2QDF0412	2QDF0422	2QDF0432
Antique Black	2QDF0403	2QDF0413	2QDF0423	2QDF0433
Polished Stainless Steel	2QDF0406	2QDF0416	2QDF0426	2QDF0436
Brushed Stainless Steel	2QDF0409	2QDF0419	2QDF0429	2QDF0439

# Door Furniture and Accessories

## greenteQ Door Restraint



Finish	VBH Code	Box Qty
Polished Gold	2QMA0001	25
Polished Chrome	2QMA0002	25

## Door Chain



Finish	VBH Code	Box Qty
Polished Gold	2HAN0578	10
Polished Chrome	2HAN0579	10

## Cabin Hooks



A very basic but very effective way to holding doors off a wall and open, we offer cabin hooks in a selection of lengths and finishes

Description	VBH Code	Box Qty
6" Cabin Hook Brass	2HAN0573	50
6" Cabin Hook Chrome	2HAN0600	100
8" Cabin Hook Brass	2HAN0574	50
8" Cabin Hook Chrome	2HAN0575	50
10" Cabin Hook Chrome	2HAN0602	50

## Yale Door Chains



Supplied in attractive Visi-Packs

Description	VBH Code	Box Qty
P1037 Standard Door Chain Polished Brass	3YTR0141	6
P1037 Standard Door Chain Satin Chrome	3YTR0142	6
P1040 Security Door Chain Polished Brass	3YTR0143	6
P1040 Security Door Chain Satin Chrome	3YTR0144	6

## Door Restrictors

### Locit Hold Open Concealed Door Restrictor



Stainless steel arms  
Concealed restrictor stay with hold open jaw as standard  
Adjustable friction  
Allows 90° opening depending on positioning  
Minimum airgap of 12mm required (except 2GBA0009)

Description	VBH Code	Box Qty
Hold-Open 335 Restrictor Ferritic S/S	2GBA0015	50
Hold-Open 335 Restrictor Austenitic S/S	2GBA0016	50
Hold-Open 500 Restrictor Ferritic S/S	2GBA0017	50
Hold-Open 500 Restrictor Austenitic S/S	2GBA0018	50
Slim Hold-Open 335 Restrictor Ferritic S/S*	2GBA0009	50
Slim Hold-Open 500 Restrictor Ferritic S/S*	2GBA0046	50

\*Works in 4-12mm air gap

### Locit Slimline Concealed Door Restrictor



Stainless steel arm  
Concealed restrictor stay  
Allows 90° opening (varies according to positioning)  
Adjustable friction  
Suitable for 4-12mm air gap  
Optional damper spring cushions 'hinge-whip' effect

Description	VBH Code	Box Qty
Slimline 335mm Restrictor	2GBA0060	50
Optional Damper Spring	2GBA0057	1

### Strand D6095-01 Concealed Door Restrictor



Allows openings of 70-110° depending on positioning  
Adjustable friction block  
Damper spring as standard  
Mild steel passivated arm  
Suits aluminium, PVCu and timber doors  
12mm airgap required  
Available in 395mm version to special order  
Available with bright chrome, brass or satin stainless steel plated arm to special order

Description	VBH Code	Box Qty
495mm Door Restrictor	2WAC0084	20

## Additional Security Items

### Sash Jammer



Sash Jammer is a surface fit device that provides security to windows and doors. When the arm is rotated to 90° to the body it blocks any movement of the sash, providing protection against jemmying.

Can be fitted to the sash on outward opening windows and doors, or to the frame when the sash opens inwards.

Sash upstands from 16.5-20mm are catered for with the inclusion of 3 different height nylon pads.

If you require a solution for a higher upstand please ask us.

Sash Jammer can be fitted in the factory or retro-fitted on site.

Description	VBH Code	Box Qty
White	2WAC1001	10/60
Brown	2WAC1002	10/60

### Frame Guard



Frame Guard has the same function as Sash Jammer (left) but is KEY LOCKING. Sash upstands from 2mm up to 20mm are catered for with a series of screw-in inserts.

Please contact us if you require a solution for a higher upstand.

Description	White	Gold	Box Qty
Frame Guard White	2JBA0105	2B A0106	10
Fixing Kit (2 Screws & 2 Nuts)	2B A0110	2B A0110	1 Kit





# Overhead Door Closer

## Geze

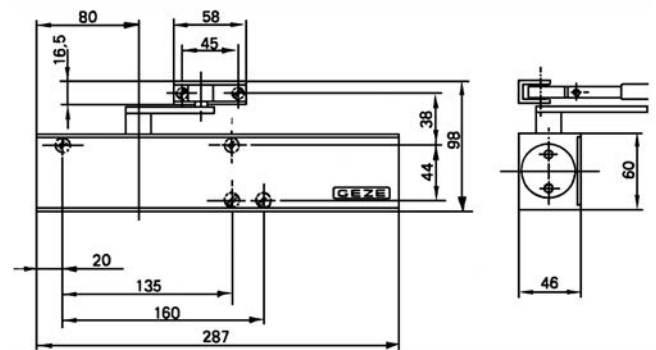
### TS4000 Door Closer

TS4000 is a robust door closer suitable for PVCu, aluminium and timber single action doors.

It features adjustable closing force and final latching speed adjustment, and is suitable for door leaf widths up to 1400mm.

The closer set comprises body, arm (standard or hold-open), fixing screws and a mounting template. It is also recommended that a mounting plate is used to ensure strong fixings. These are supplied separately.

Description	VBH Code	Box Qty
TS4000 c/w Standard Arm White RAL9016	4GEZ0538	1
TS4000 c/w Standard Arm Satin Anodised	4GEZ0506	1
TS4000 c/w Hold/Open Arm Satin Anodised*	4GEZ0520	1
Mounting Plate White RAL9016	4GEZ0537	1
Mounting Plate Satin Anodised	4GEZ0543	1



\*Version with Hold-Open arm should not be used on fire or smoke protection doors

# Emergency Exit Hardware Exidor

## 500 Series Panic Bolt

Suitable for all PVCu profiles  
 Supplied complete with keeps for PVCu doors  
 Tested, certified and CE marked to BS EN1125 (Cross-Arms)  
 Panic bolts incorporate vertical shootbolts for solid connection to frame  
 Non handed for reduced stock holding  
 Silver & white/green are standard colours (other RAL colours available to special order)  
 Push-Pad solution also available (classified to BS EN179)



## 502A-B Cross-Arm Panic Bolt 2 Point Locking



BS EN1125:2008 classification 37601322AA

Locks via shootbolts

Includes 4EPG0101 & 4EPG0049 keeps

Description	VBH Code	Box Qty
2 Point Panic Bolt Set White/Green	4EPG0001	1
2 Point Panic Bolt Set Silver	4EPG0011	1
2 Point Panic Bolt Set Black	4EPG0031	1

## 503A-B/UD Cross-Arm Panic Bolt 3 Point Locking



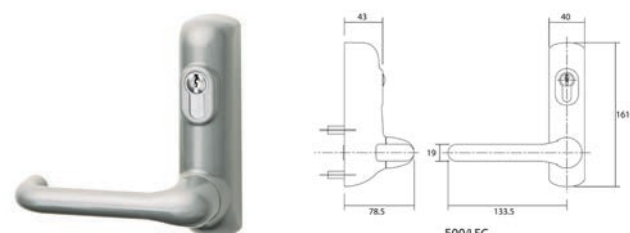
BS EN1125:2008 classification 37601322AA

Locks via vertical shootbolts and central horizontal pullman latch

Includes 4EPG0101, 4EPG0048 & 4EPG0049 keeps

Description	VBH Code	Box Qty
3 Point Panic Bolt Set White/Green	4EPG0002	1
3 Point Panic Bolt Set Silver	4EPG0012	1
3 Point Panic Bolt Set Black	4EPG0051	1

## Outside Access Device



Suits profiles up to 72mm thick

Description	VBH Code	Box Qty
Lever Operated OAD with Cylinder White	4EPG0020	1
Lever Operated OAD with Cylinder Silver	4EPG0018	1
Lever Operated OAD with Cylinder Black	4EPG0019	1

## Spare & Optional Keeps



Description	VBH Code	Box Qty
Standard Top Trip Shootbolt Keep White	4EPG0101	1
Standard Bottom Shootbolt Keep Galvanised Steel	4EPG0049	1
Low Threshold Bottom Shootbolt Keep Galvanised Steel	4EPG0106	1
Frame Mounted PVCu Bottom Shootbolt Keep White	4EPG0117	1
Pullman Centre Latch Keep White	4EPG0048	1

# Emergency Exit Hardware

## Exidor

### 500 Series Panic Latch

Suitable for all PVCu profiles  
 Supplied complete with keeps for PVCu doors  
 Tested, certified and CE marked to BS EN1125 (Cross-Arms)  
 Non handed for reduced stock holding  
 Silver & white/green are standard colours (other RAL colours available to special order)  
 Push-Pad solution also available (classified to BS EN179)



### 522B Cross-Arm Panic Latch 2 Point Locking



BS EN1125:2008 classification 37601322AA  
 Locks via 2 horizontal pullman latches  
 Includes 4SPG0047 keeps

Description	VBH Code	Box Qty
2 Point Panic Latch Set White/Green	4SPG0003	1
2 Point Panic Latch Set Silver	4SPG0013	1
2 Point Panic Latch Set Black	4SPG0033	1

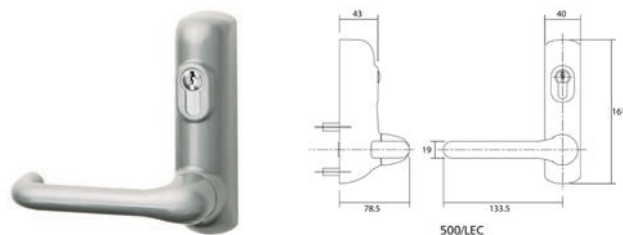
### 523B Cross-Arm Panic Latch 3 Point Locking



BS EN1125:2008 classification 37601322AA  
 Locks via 3 horizontal pullman latches  
 Includes 4SPG0048 and 4SPG0047 keeps

Description	VBH Code	Box Qty
3 Point Panic Latch Set White/Green	4SPG0001	1
3 Point Panic Latch Set Silver	4SPG0014	1
3 Point Panic Latch Set Black	4SPG0050	1

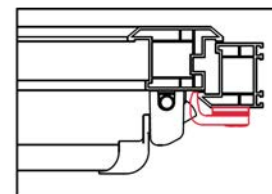
### Outside Access Device



Suits profiles up to 72mm thick

Description	VBH Code	Box Qty
Lever Operated OAD with Cylinder White	4EPG0020	1
Lever Operated OAD with Cylinder Silver	4EPG0018	1
Lever Operated OAD with Cylinder Black	4EPG0019	1

### Spare & Optional Keeps



Description	VBH Code	Box Qty
Standard Pullman Centre Latch Keep White	4SPG0048	1
Horizontal Vertical Pullman Latch Keep White	4SPG0047	1

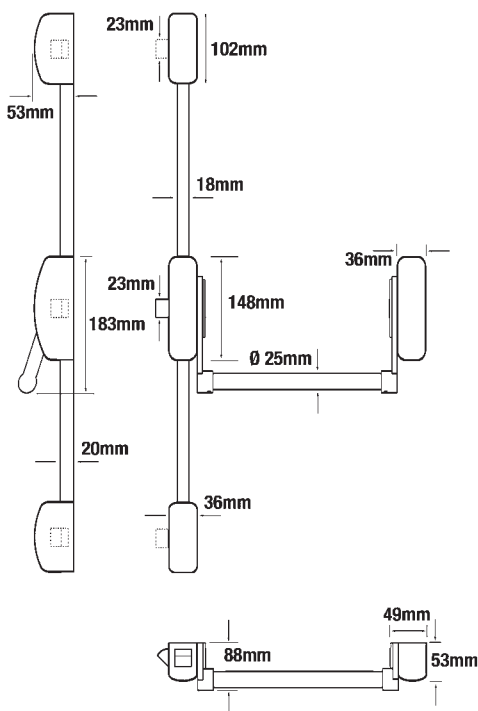
Double Doors  
 Please contact the VBH Technical Department to confirm suitability of 500 Series for double doors on your PVCu system

Anti Panic

Suitable for PVCu, timber and aluminium single and double doors  
Tested, certified and CE marked to BS EN1125:2008 (Cross-Arms)  
Tested, certified and CE marked to BS EN1179:2008 (Push-Pads)  
Silver and white available from stock  
Other colours available to special order  
Non-handed for reduced stock holding  
Push-Pad features photoluminescent pad



Cross-Arm 1 & 3 Point Panic Latches

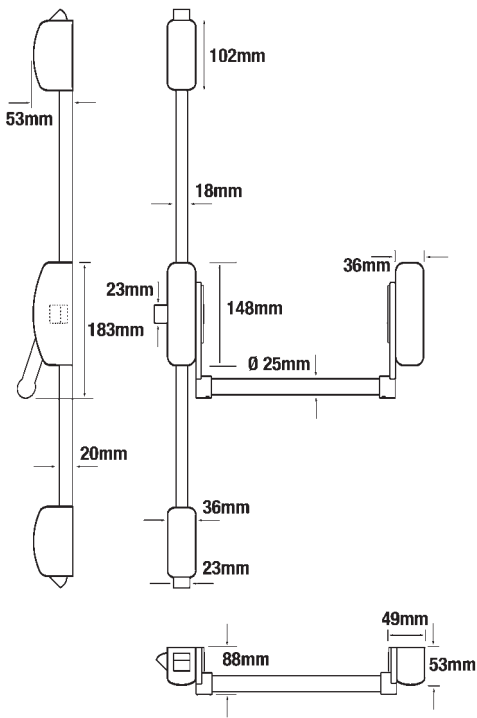


Classification No.377B1422AA

Description	VBH Code	Box Qty
1 Point Panic Latch Silver (Cross-Arm)	4QPG0001	1
1 Point Panic Latch White (Cross-Arm)	4QPG0002	1
3 Point Panic Latch Silver (Cross-Arm)	4QPG0011	1
3 Point Panic Latch White (Cross-Arm)	4QPG0012	1

Use PVCu Striker for all latches

Cross-Arm 3 Point Panic Bolts



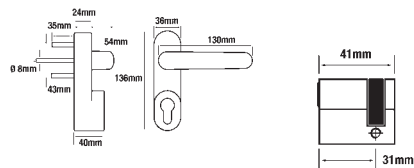
Classification No.377B1422AA

Centre latch can be blanked off to provide 2 point locking

Description	VBH Code	Box Qty
3 Point Panic Bolt Silver (Cross-Arm)	4QPG0021	1
3 Point Panic Bolt White (Cross-Arm)	4QPG0022	1

Use PVCu Striker for horizontal and vertical latches locking onto PVCu frame. Use floor striker 4QPG0123 for bottom vertical latch

Outside Access Device



Comprises lever handle and 31mm half profile cylinder. Operation of internal arm always overrides locked state to allow exit

Description	VBH Code	Box Qty
Outside Access Device Silver	4QPG0085	1
Outside Access Device White	4QPG0086	1
Outside Access Device Black	4QPG0087	1

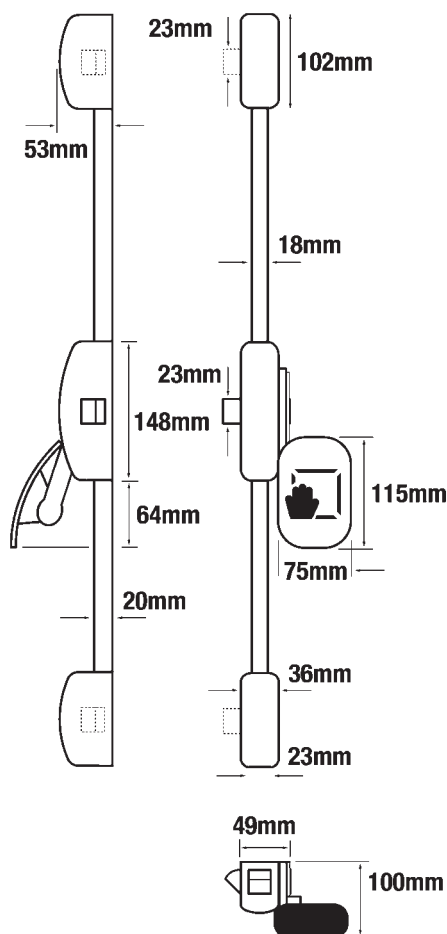
Striker Plates

Striker plates should be ordered separately. Please contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for the correct codes for your system

Description	VBH Code	Box Qty
Floor Striker Stainless Steel	4QPG0123	1
Profile Related 'PVCu Striker'	4QPG - - - -	1

If a double door kit is required simply order 1 x Panic Bolt AND 1 x Panic Latch

### Push-Pad 1 & 3 Point Latches

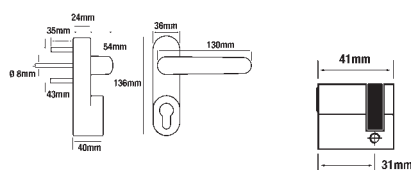


Classification No.377B1442BA

Description	VBH Code	Box Qty
1 Point Panic Latch Silver (Pad)	4QPG0031	1
1 Point Panic Latch White (Pad)	4QPG0032	1
3 Point Panic Latch Silver (Pad)	4QPG0041	1
3 Point Panic Latch White (Pad)	4QPG0042	1

Use PVCu Striker for all latches

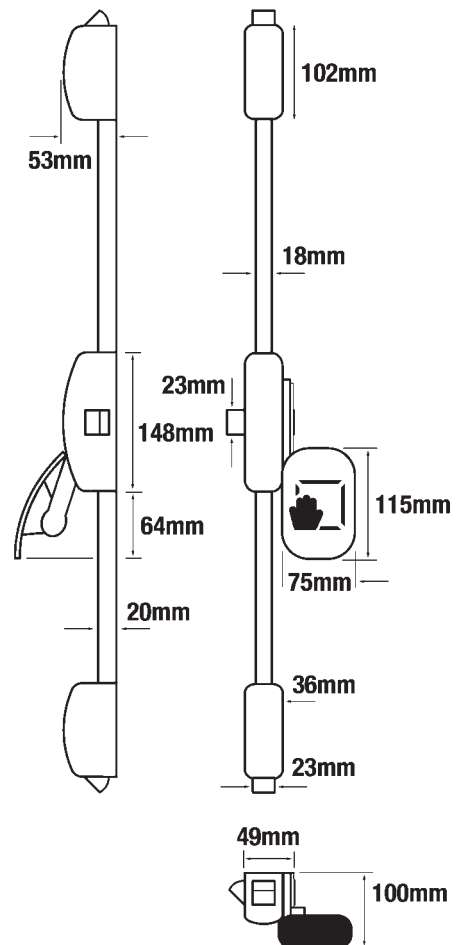
### Outside Access Device



Comprises lever handle and 31mm half profile cylinder. Operation of internal pad always overrides locked state to allow exit

Description	VBH Code	Box Qty
Outside Access Device Silver	4QPG0085	1
Outside Access Device White	4QPG0086	1
Outside Access Device Black	4QPG0087	1

### Push-Pad 3 Point Bolts



Classification No.377B1442BA

Centre latch can be blanked off to provide 2 point locking

Description	VBH Code	Box Qty
3 Point Panic Bolt Silver (Pad)	4QPG0051	1
3 Point Panic Bolt White (Pad)	4QPG0052	1

Use PVCu Striker for horizontal and vertical latches locking onto PVCu frame. Use floor striker 4QPG0123 for bottom vertical latch

### Striker Plates

Striker plates should be ordered separately. Please contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for the correct codes for your system

Description	VBH Code	Box Qty
Floor Striker Stainless Steel	4QPG0123	1
Profile Related 'PVCu Striker'	4QPG - - - -	1

If a double door kit is required simply order 1 x Panic Bolt AND 1 x Panic Latch



## Yale Panic Exit Device

### Yale PED Panic Exit Device for Single and Double Doors

The Yale PED Panic Exit Device combines the safety of a panic bar with the security of a multi-point hook lock.

The bold green and black cross arm is linked to a Lockmaster multi-point door lock that gives full locking down the length of the door frame through hooks and anti-lift pins. Even when the door is locked, emergency exit can be achieved by depressing the bar as this automatically overrides the locked state to retract all locking points. The locking points are then re-engaged by lifting the internal toggle switch and arm, making the door fully secure from outside once more.

Yale PED is suitable for PVCu, aluminium and timber doors, and is supplied in a kit including lock, cross arm and keeps. Profile related packers should be ordered separately, as should the optional top and bottom shootbolts and keeps if these are required.

The optional outside access kit allows the door to be opened and locked from outside via a key and lever.

Yale PED is tested, certified and CE marked for single and double doors to BS EN1125:2008.

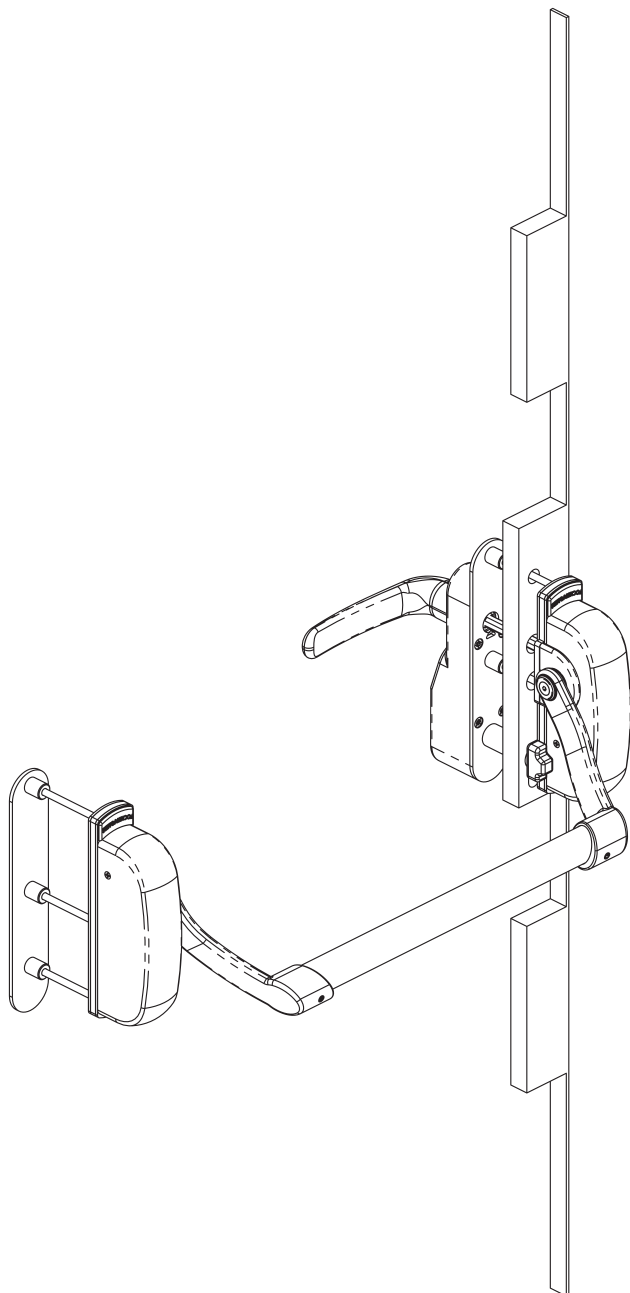
It has been cycle tested to 200,000 operations and can be used on doors up to 200Kg.

#### Benefits at a glance:

- Tested, certified and CE marked to BS EN1125:2008 (classification 37601421AA)
- Gives emergency exit whilst retaining security through Lockmaster multi-point lock
- Supplied in set including cross arm, lock and keeps (Hook/Pin type includes flat keeps for rebating into timber. Hook/Pin/Roller type includes keeps that accept profile related packers)
- Double door solutions give the option of fitting vertical shootbolts to both doors or on passive door only
- Optional outside access kit available
- Green and black cross arm contrasts with most door colours
- Suits PVCu, aluminium and timber single and double doors
- Tested to 200,000 cycles
- Can be used on doors up to 200Kg
- 950mm cross arm
- High corrosion resistance (240 hours neutral salt spray test)

# Emergency Exit Hardware Yale

## PED Panic Exit Device for Single Doors



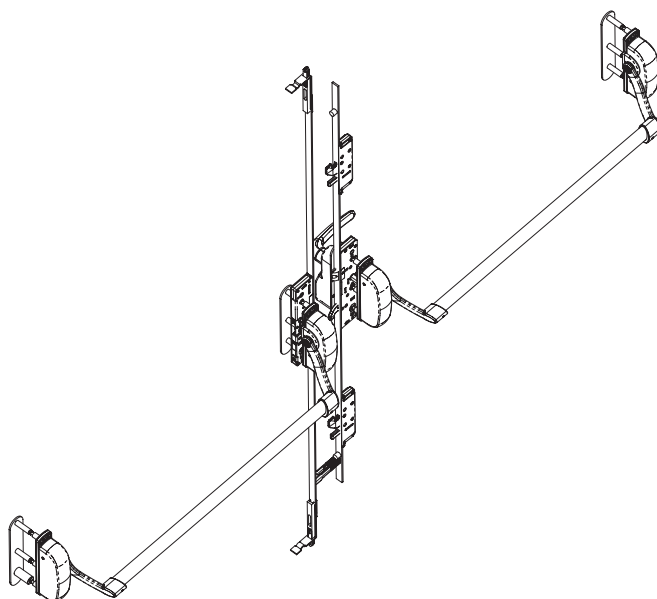
Description	VBH Code	Box Qty
Hook/Pin/Roller LH PED Kit*	3PDL0501	1
Hook/Pin/Roller RH PED Kit*	3PDL0502	1
Hook/Pin PED KIT (Unhanded)	3PDL0503	1
Outside Access Kit	3PDL0500	1

### Optional Extras for Single Door Kits

Colour	VBH Code	Box Qty
Shootbolt Pair (200mm Top & Bottom)	3MML0040	25Pr
Shootbolt Pair (200mm Top/100mm Bottom)	3MML0041	25Pr
Single Shootbolt Keep with Dust Box	3MML0029	200
Single Shootbolt Keep without Dust Box	3MML0016	200

\*Refer to Downloads section of [www.vbhgb.com](http://www.vbhgb.com) or VBH Technical Department for correct underpacker.

## PED Panic Exit Device for Double Doors



Description	VBH Code	Box Qty
Hook/Pin/Roller PED Kit* (Shootbolts on passive leaf only)	3PDL0504	1
Outside Access Kit	3PDL0500	1

Note: Double door kits are supplied with everything in the kit including locks, cross-arms, keeps and shootbolts.  
The only part to be ordered separately is the profile related under packer (x13)





## Bi-Fold Door Hardware greenteQ

### Clearspan

greenteQ Clearspan allows specifiers to design, and door manufacturers to build, slimline bi-fold doors with minimal visible hardware.

The roller assemblies and hinges are fixed into the door rebates rather than face-fixed to the sash and frame, with only the hinge knuckles showing when the door is closed. The rollers and guides run in top and bottom tracks which are neatly encapsulated within the frame. Brushes on the roller assembly clear away any dust or dirt that gathers in the track to ensure a smooth sliding operation.

Perfect operation is further aided by the 5mm vertical adjustment provided through the roller.

Roller assemblies, top guides and hinges are finished in white or black, whilst doors can be personalised with pull handles and intermediate turn handles in black, white, PVD gold, satin chrome and polished chrome. The intermediate handles are available either with or without a cylinder hole.

greenteQ Clearspan hardware suits all common bi-fold layouts (330, 321, 431 etc) and can carry individual sash weights up to 120Kg.

greenteQ Clearspan hardware is designed with the end user, the installer and manufacturer in mind. Therefore the rollers and hinges are configured to fit each profile system specifically. This means that

the parts locate on the door with no or minimal routing, depending on the profile. The hardware can be configured to suit most aluminium profiles and some PVCu systems.

greenteQ Clearspan is covered by the greenteQ 10 year guarantee.

#### Benefits at a glance:

- Slimline design as hardware is fixed into door rebates rather than surface fit
- Only hinge knuckles visible when closed
- Suitable for inward and outward opening doors with same hardware
- 120Kg sash weight
- Available in black and white with 3 additional finishes on intermediate and pull handles
- 5mm vertical adjustment
- Integrated brushes clear dirt from bottom track
- Suits most aluminium profiles and some PVCu systems
- No, or minimal, routing depending on profile
- All common schemes can be accommodated

Our Technical Department is working on solutions for a number of profile systems. Please ask regarding Clearspan's suitability for yours.

Attn VBH:

Please supply/quote for \* hardware to suit the below specification

\*Delete as appropriate



## VBH greenteQ Clearspan Order/Quote Form

Which profile are you using?			
Which scheme do you require?			
220		321	
431		440	
541		550	
651		660	
761		770	
330		532	
		633	
		752	
What colour guides, rollers & hinges do you require?			
White		Black	
If Outward Open: do you require hinges with Pull Handles?			
Yes		No	
If Yes, what colour hinges with pull handle do you require?			
White		Black	Black/PVD Gold
		Black/Pol.Chrome	Black/Satin Chrome
Do you require Clearline turn handles for your intermediate locks?			
Yes		No	
If Yes, do you want them with or without a PZ hole?			
With		Without	
If Yes, what colour Clearspan handles do you require?			
White		Black	PVD Gold
		Pol.Chrome	Satin Chrome

Company Name		Acc Number	
Email Address		Fax Number	
Contact Name		Order No	
Sign		Date:	

Fax to:	Gillingham	01634 263504		East Kilbride:	01355 571771		
	Birmingham	01675 466300		Swansea	01792 701385		



## Bi-Fold Door Hardware Roto

### PatioFold

Roto PatioFold bi-fold door hardware allows you to produce inward and outward opening doors using much the same hardware, as the frame and sash hinges are of an all metal construction, with an anti-tamper security pin. This pin is only accessible when the doors are in the open position. All that changes is the backset of the drive gears.

There is a choice of normal bottom track or Roto's 'Enhanced' low threshold on inward and outward opening doors. Please note that when a low threshold is used, it is strongly advised that the doors are hung from the top to avoid debris accumulating in the track, affecting the action of the running wheels. This is particularly important when the doors open outwards.

Strong fixing points above the door are vital when the door is top hung. Openings of up to 6000mm can be catered for with up to 12 patterns, depending on the size of the opening.

The sashes can weigh up to 80Kg each.

The all-metal hinges are available in white, mid bronze or silver, and with a choice of fixing inserts to ensure a firm fix into reinforcing.

#### Benefits of PatioFold at a glance:

- Inward and outward opening with same hinges
- Standard or 'Enhanced' low threshold
- Attractive and strong hinges in 3 colour options
- Roto perimeter hardware protected by RotoSil Nano anti-corrosion coating (1000 hours neutral salt spray test)
- Wheel carriages incorporate cleaning brushes to clear track of debris
- Suitable for PVCu and timber doors as standard
- Variant for aluminium doors also available
- Top or bottom hung
- 80Kg sash weight
- Sash rebate width 450 - 900mm (active sash 1200mm)
- Sash rebate height 800 - 2400mm
- Sash upstand range 16 - 25mm
- 6000mm span with up to 15 sash combinations
- Unique concealed sash hold-back feature

**Please complete and send us the form opposite to place your order or request a quote.**



Attn VBH:

Please supply/quote for \* hardware to suit the below specification

\*Delete as appropriate



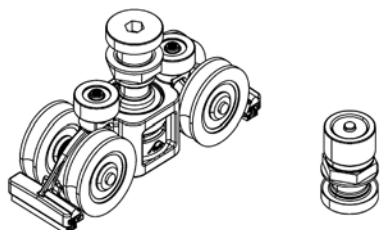
## VBH Roto PatioFold Order/Quote Form

Which profile are you using?							
Which scheme do you require? 761 and 770 are Timber only							
220		321		330			
431		440					
541		550		532			
651		660		633			
761		770					
What colour hinges do you require?							
White		Bronze		Silver		White in / Bronze out	
						White in / Silver out	
						Silver in / Bronze out	
What threshold option do you require?							
Standard				'Enhanced' Low			
If low threshold, is the door top or bottom running?							
Top				Bottom			
What backset intermediate drive gear do you require?							
14.5mm				25mm			
						35mm	
Do you want us to supply a Roto drive gear for the active leaf?							
Yes				No			
If yes, please advise preference							
Int/Ext 25BS				Int/Ext 35BS			
				Int Only 14.5BS			
				Int Only 25BS			
				Int Only 35BS			
Is the door inward or outward opening?							
Inward				Outward			
If outward opening do you require 'D' pulls for your sash hinges? (recommended)							
Yes				No			
What is your sash rebate width?							
What is your sash rebate height?							
What is your overall frame width?							
Do you want us to supply a handle with any Roto drive gears? If yes which colour?							
White				Bronze			
				Silver			
Company Name				Acc Number			
Contact Name				Order No			
Email Address				Fax No			
Sign				Date:			
Fax to:		Gillingham		01634 263504			
		Birmingham		01675 466300			
East Kilbride:		01355 571771					
Swansea		01792 701385					

# Bi-fold Door Hardware Roto

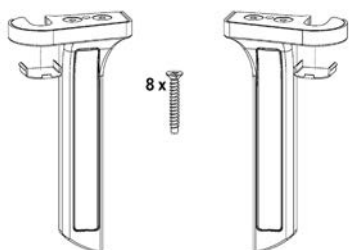
## PatioFold - Component Overview

### Bogie Set with Accessories



Description	VBH Code	Box Qty
Bogie Set c/w Accessories	4FDH6201	1

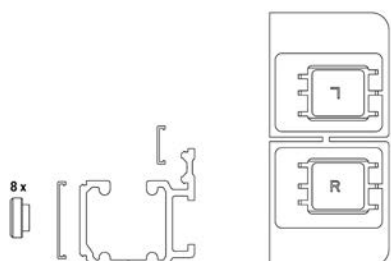
### Support Brackets



Pair

Finish	30mm Pins	40mm Pins	Box Qty
White	4FDH6211	4FDH6215	1
Bronze	4FDH6212	4FDH6216	1
Silver	4FDH6213	4FDH6217	1

### Roller Track

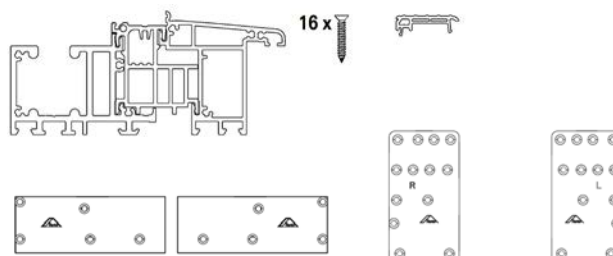


Including accessories

Length	White	Bronze	Silver	Box Qty
3m	4FDH6221	4FDH6225	4FDH6229	1
4m	4FDH6222	4FDH6226	4FDH6230	1
5m	4FDH6223	4FDH6227	4FDH6231	1
6m	4FDH6224	4FDH6228	4FDH6232	1

See page 79-80 for handle options

### Enhanced Threshold



Including accessories

Length	VBH Code	Box Qty
3m	4FDH6251	1
4m	4FDH6252	1
5m	4FDH6253	1
6m	4FDH6254	1

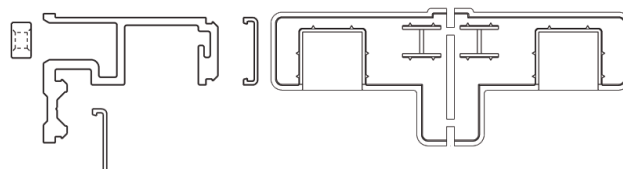
### Cover Strip



For roller track and enhanced threshold 1300mm

Finish	VBH Code	Box Qty
Anodised Silver EV1	4FDH6255	1

### Guide Track



Including accessories

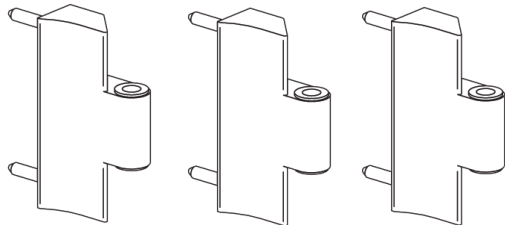
Length	White	Bronze	Silver	Box Qty
3m	4FDH6027	4FDH6037	4FDH6047	1
4m	4FDH6028	4FDH6038	4FDH6048	1
5m	4FDH6029	4FDH6039	4FDH6049	1
6m	4FDH6030	4FDH6040	4FDH6050	1

# Bi-fold Door Hardware

## Roto

### PatioFold - Component Overview - Continued

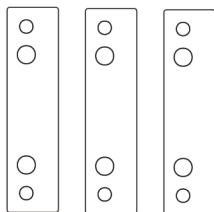
#### Frame Hinge Bearings



Packed/sold per 3

Finish	White	Brone	Silver	Box Qty
16/25mm Pin	4FDH6270	4FDH6271	4FDH6272	1 set
16/40mm Pin	4FDH6274	4FDH6275	4FDH6276	1 set
21/25mm Pin	4FDH6278	4FDH6279	4FDH6280	1 set
21/40mm Pin	4FDH6282	4FDH6283	4FDH6284	1 set

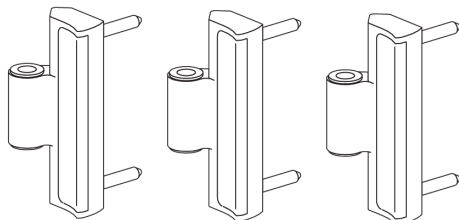
#### Packers for Frame Hinge Bearings



Packed/sold per 3

Finish	1mm	2mm	Box Qty
White	4FDH6111	4FDH6114	1 set
Brone	4FDH6112	4FDH6115	1 set
Silver	4FDH6113	4FDH6116	1 set

#### Sash Hinge Bearings

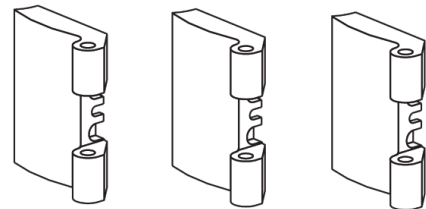


Packed/sold per 3

Finish	White	Brone	Silver	Box Qty
20/25mm Pin	4FDH6290	4FDH6291	4FDH6292	1 set
30/25mm Pin	4FDH6294	4FDH6295	4FDH6296	1 set
20/40mm Pin	4FDH6298	4FDH6299	4FDH6300	1 set
30/40mm Pin	4FDH6302	N/A	4FDH6304	1 set

See page 79-80 for handle options

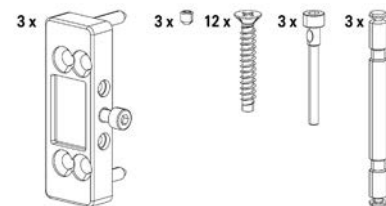
#### Hinge Leaves



Packed/sold per 3

Finish	40mm	50mm	Box Qty
White	4FDH6260	4FDH6264	1 set
Brone	4FDH6261	4FDH6265	1 set
Silver	4FDH6262	4FDH6266	1 set

#### Hinge Fixing Inserts



Packed/sold per 3

Description	25mm Pin	40mm Pin	Box Qty
40/50mm, 40mm Screws	4FDH6310	4FDH6311	1 set
44/54mm, 50mm Screws	4FDH6312	4FDH6313	1 set
For Timber/Alu, 40/50mm	4FDH6314	N/A	1 set

#### Sash Retaining Devices



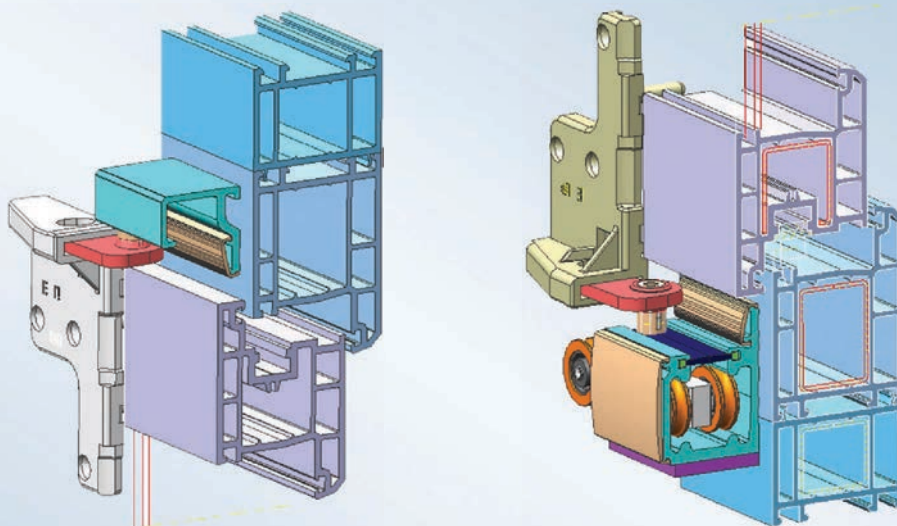
Description	White	Black	Silver	Box Qty
Sash Retaining Device	4FDH6141	4FDH6142	4FDH6143	1

#### Sash Stoppers



Description	White	Brown	Silver	Box Qty
Sash Stopper	4FDH6144	4FDH6145	4FDH6146	1





## Bi-Fold Door Hardware Siegenia

### FS Portal PLUS

FS Portal PLUS boasts a number of new features that fabricators and installers will love.

The distance from the internal frame rebate to the rear of the roller track is just 73mm, meaning that slim frame or add-on profiles can be used.

The opening on the track is covered by an integrated brush seal along its complete length. Not only does this keep the track free of dust and other debris, but also makes the installation look neat and tidy.

All fastening points on the track are covered with a coloured profile strip to further enhance the appearance.

Installation with Allen key adjustment is very simple with the Portal PLUS wheel assemblies used on standard threshold doors.

The guide track features a return lip to ensure that the running guide cannot become accidentally disconnected. As with the roller track, all the screw fixings are covered with a colour-matched trim.

#### Benefits of FS Portal PLUS at a glance:

- Slim roller track featuring integrated brush seal with concealed fixings
- Guide track with concealed fixings and lip to hold running guide in place
- Simple Allen key adjustment on Portal PLUS bogie wheels
- Bespoke wheel cartons for profiles with thicker sash upstands
- Inward & outward opening options
- Low threshold available on inward opening installations
- Cover caps available in white, silver and brown
- Sash rebate range 330-900mm wide x 840-2360mm high
- 6.5m span with 14 sash combinations
- Perimeter hardware protected by TS-Look anti-corrosion coating (500 hours neutral salt spray test) as standard
- Suitable for PVCu and timber doors as standard (aluminium to special order)
- 80Kg sash weight
- Top or bottom hung

**Please complete the form opposite to place your order or request a quote**





Attn VBH:

Please supply/quote for \* hardware to suit the below specification

\*Delete as appropriate

## VBH Siegenia FS Portal PLUS Order/Quote Form



Which profile are you using?			
Which scheme do you require?			
220		321	
431		440	
541		550	
651		660	
761		770	
330		532	
		633	
		752	
What colour hinge covers do you require?			
White		Brown	
White In/Brown Out		White In/Silver Out	
		Silver	
		Silver In/Brown Out	
What is your overall frame width?			
What is your sash rebate width & height?		Width	Height
What backset intermediate drive gear do you require?			
16mm		25mm	
		35mm	
Is your door Inward or Outward opening?			
Inward		Outward (Normal Threshold only)	
<b>If Outward Open:</b> Do you require FS-D pull handles? (Recommended)			
Yes		No	
What threshold option do you require? (Low is only recommended on inward open)			
Normal		Low	
What are your frame hinge requirements?			
Siegenia FS Hinges		TBT Hinges*	
		None required	
<i>*TBT type hinges cannot be used with low threshold.</i>			
If the door you are making is hung from one side only, which side is it hung on, viewed from inside? (Only applies if using TBT hinges)			
LH		RH	
Do you want us to supply a Siegenia drive gear for the active leaf?			
Yes		No	
If yes, please advise preference			
Int/Ext 25BS		Int/Ext 35BS	
		Int Only 16BS	
		Int Only 25BS	
		Int Only 35BS	
Do you want us to supply a handle with any Siegenia drive gears?			
White		Bronze	
			Silver

Company Name		Acc Number	
Email Address		Fax Number	
Contact Name		Order No	
Sign		Date:	

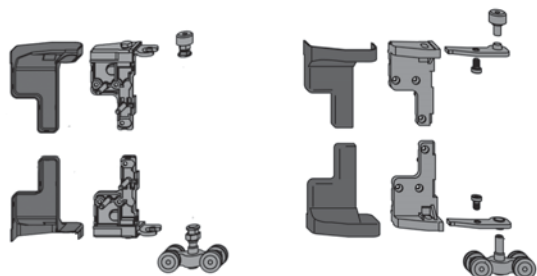
Fax to:	Gillingham	01634 263504		
	East Kilbride:	01355 571771	Swansea	01792 701385

# Bi-fold Door Hardware

## Siegenia

### FS Portal PLUS - Component Overview

#### Wheel Cartons



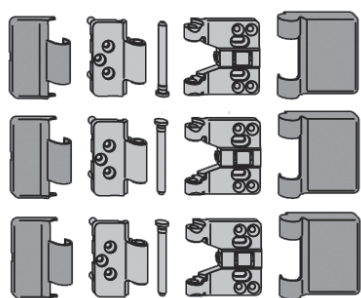
Description	VBH Code	Box Qty
Standard Open In < 19mm Upstand	4STS7200	1
Standard Open Out < 19mm Upstand	4STS7201	1
Standard Open In/Out 19-24mm Upstand	4STS7202	1
Low Threshold Wheel Set	4STS7104	1
Cover Cap Carton White	4STS7115	1
Cover Cap Carton Brown	4STS7116	1
Cover Cap Carton Silver	4STS7117	1

#### Hold Back Catch



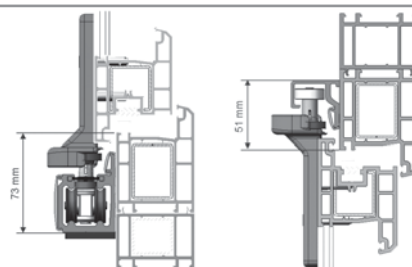
Description	White	Brown	Silver	Box Qty
Hold Back Catch	4STS7120	4STS7121	4STS7122	50

#### Hinge Cartons and Covers



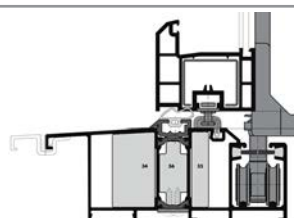
Description	VBH Code	Box Qty
Inward Open Hinge Carton 17/38	4STS7101	1
Cover Cap Carton White	4STS7111	1
Cover Cap Carton Brown	4STS7112	1
Cover Cap Carton Silver	4STS7110	1
Outward Open Internal Hinge Carton 27/48	4STS7171	1
Outward Open External Hinge Carton 27/48	4STS7165	1
Cover Cap Carton White	4STS7172	1
Cover Cap Carton Brown	4STS7173	1
Cover Cap Carton Silver	4STS7174	1
Outward Open Frame Hinge Carton 17/48	4STS7161	1
Cover Cap Carton White	4STS7162	1
Cover Cap Carton Brown	4STS7163	1
Cover Cap Carton Silver	4STS7164	1

#### Standard Profile Set



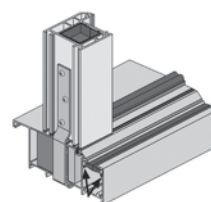
Length	White	Brown	Silver	Box Qty
2.5m	4STS7210	4STS7214	4STS7218	1
3.5m	4STS7211	4STS7215	4STS7219	1
4.5m	4STS7212	4STS7216	4STS7220	1
6.5m	4STS7213	4STS7217	4STS7221	1

#### Low Theshold Profile Set



Length	Silver	Box Qty
2.5m	4STS1016	1
3.5m	4STS1017	1
4.5m	4STS1018	1
6.5m	4STS1019	1

#### Frame Joining Kit



Description	VBH Code	Box Qty
Frame Joining Kit	4STS1020	1

#### D6 x 130 Screw



Description	VBH Code	Box Qty
D6 x 130 Screw	4STS1030	50

#### Dowell Pin for Outward Opening Doors



Description	VBH Code	Box Qty
Dowell Pin 6.8 x 50	4STS7170	1

## Bi-fold/Tilt & Slide Handle Options

### Hoppe Paris Internal/External Handle Set



Through fix

Finish	VBH Code	Box Qty
Silver Anodised (F1)	2HOP0832	10
Gold Anodised (F3)	2HOP0831	10
White	2HOP0833	10

### Roto Rotoline Internal/External Handle Set



Through fix

Finish	VBH Code	Box Qty
Pair with Standard Outer Gold	5ROT5084	6
Pair with Standard Outer White	5ROT5083	6
Pair with Slim Outer Gold	5ROT5082	6
Pair with Slim Outer White	5ROT5193	6

### Siegenia Internal/External Handle Set



Description	VBH Code	Box Qty
Handle Set Silver Anodised (F1)	4STS7182	10
Handle Set Gold Anodised (F3)	4STS7183	10
Handle Set White	4STS7180	10
Handle Set Brown	4STS7181	10
Handle Set Titanium	4STS7184	10
Spindle/Screw Set 55-64mm*	4STS7185	50
Spindle/Screw Set 65-74mm *	4STS7186	50
Spindle/Screw Set 75-84mm *	4STS7187	50

\*Spindle/screw sets to be ordered separately

### Hoppe Paris Internal Handle - Locking



Description	VBH Code	Box Qty
32mm SP Silver Anodised (F1)	2HOP0123	2
32mm SP Gold Anodised (F3)	2HOP0124	2
32mm SP White	2HOP0126	2
43mm SP Silver Anodised (F1)	2HOP0190	2
43mm SP Gold Anodised (F3)	2HOP0191	2
43mm SP White	2HOP0192	2
Spare Key	2HOP0129	100

### Roto Rotoline Internal Handle Non-Locking



Finish	35mm SP	55mm SP	Box Qty
Silver	5ROT5088	5ROT5027	10
White	5ROT5098	5ROT5028	10
Bronze	5ROT5087	5ROT5026	10

### Siegenia Slim Int Handle Non-Locking

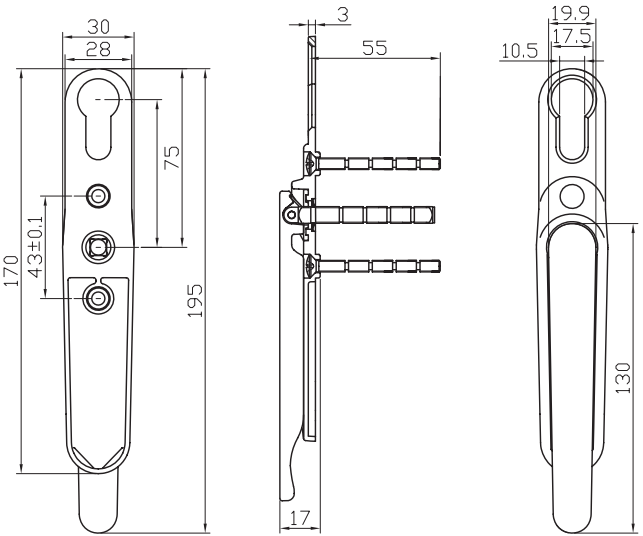


Description	VBH Code	Box Qty
50mm SP Silver Anodised (F1)	4STS7127	10
50mm SP White	4STS7125	10
50mm SP Brown	4STS7126	10

# Bi-Fold Door Handles

## greenteQ

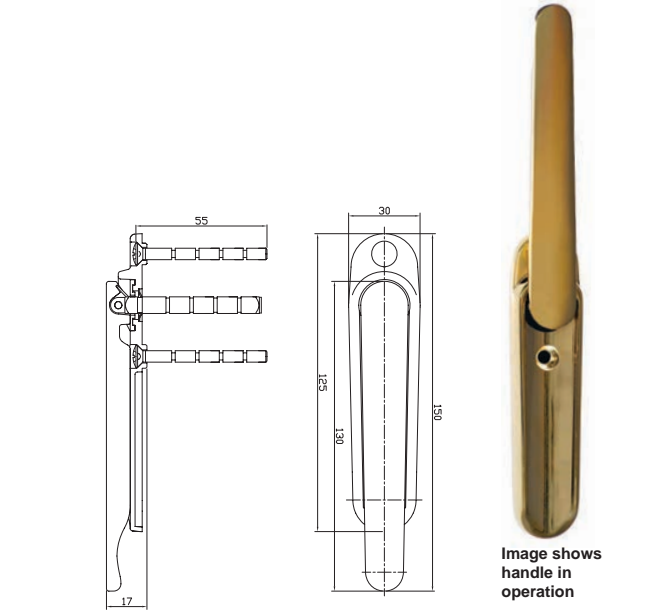
Clearline SlimFold Handles  
with PZ



SlimFold handle with 'Lift & Turn' technology  
Ideal for Bi-fold doors  
With cylinder hole (PZ)

Description	Finish	VBH Code	Box Qty
With PZ Hole	White	4QBF0011	40
With PZ Hole	Black	4QBF0012	40
With PZ Hole	PVD Gold	4QBF0013	40
With PZ Hole	Polished Chrome	4QBF0014	40
With PZ Hole	Satin Chrome	4QBF0015	40

Clearline SlimFold Handles  
without PZ



SlimFold handle with 'Lift & Turn' technology  
Ideal for Bi-fold doors  
Without cylinder hole (PZ)

Description	Finish	VBH Code	Box Qty
No PZ Hole	White	4QBF0001	40
No PZ Hole	Black	4QBF0002	40
No PZ Hole	PVD Gold	4QBF0003	40
No PZ Hole	Polished Chrome	4QBF0004	40
No PZ Hole	Satin Chrome	4QBF0005	40

## Bi-Fold Door Handles greenteQ

### Clearline CentreFold Handle



Works with greenteQ Intermediate Lock to secure aluminium bi-fold doors  
Top of lever pushes in to allow turn action  
Stands off profile by only 15mm  
Key lockable  
Discreet key storage area  
Foldable key enables doors to stack back with minimal stand off  
Concealed fixings (43mm centres)

Finish	VBH Code	Box Qty
White	4QBF0061	40
Black	4QBF0062	40
Anthracite Grey	4QBF0068	40
Polished Chrome	4QBF0064	40
Satin Chrome	4QBF0065	40

### Clearline SecuriFold Handle



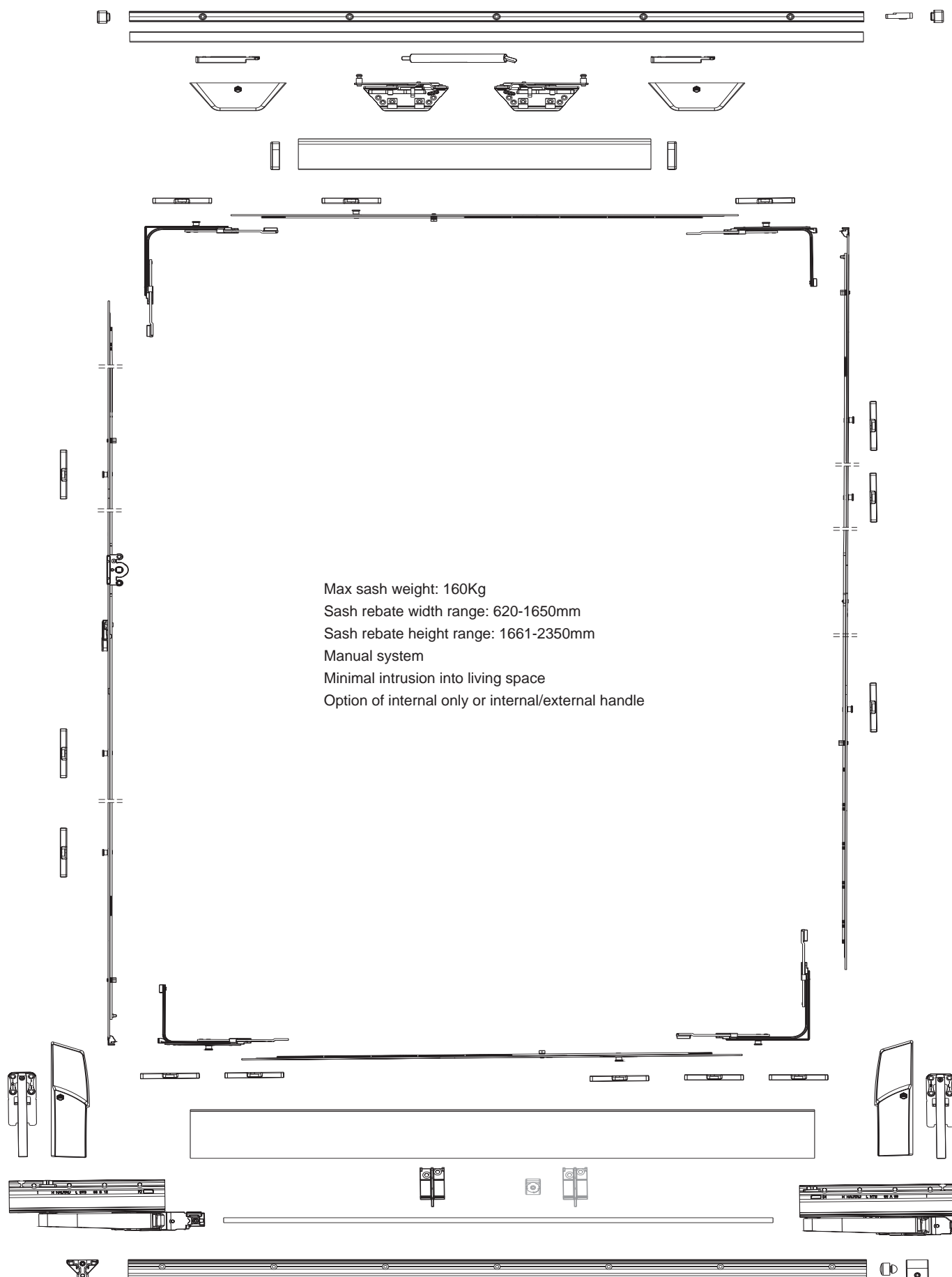
Works with most multi-point 92PZ door locks on bi-fold and resi-doors  
Levers fold vertically into backplate when not in use to allow neat stacking of Invisifold or bi-fold doors and to provide clear sightline through glass when closed  
Can be used on resi doors to prevent the lever clashing against the wall  
Stands off profile by only 25mm in closed position  
Top of lever pushes in to allow turn action  
Accepts standard or security Euro profile cylinders  
Location peg holds the lever in place in closed position to prevent handle rattle  
Internal and external levers operate independently  
Identical screw centres to standard long backplate Alpha door handle

Description	VBH Code	Box Qty
LH White	4QBF0091	12
RH White	4QBF0092	12
LH Black	4QBF0093	12
RH Black	4QBF0094	12
LH Anthracite Grey	4QBF0101	12
RH Anthracite Grey	4QBF0102	12
LH Polished Chrome	4QBF0097	12
RH Polished Chrome	4QBF0098	12
LH Satin Chrome	4QBF0099	12
RH Satin Chrome	4QBF0100	12

# Tilt & Slide Patio Hardware

## Maco

### RAIL SKB-S - 2012 Tilt & Slide Hardware



# Tilt & Slide Patio Hardware

## Maco

### RAIL SKB-S - 2012 Tilt & Slide Hardware

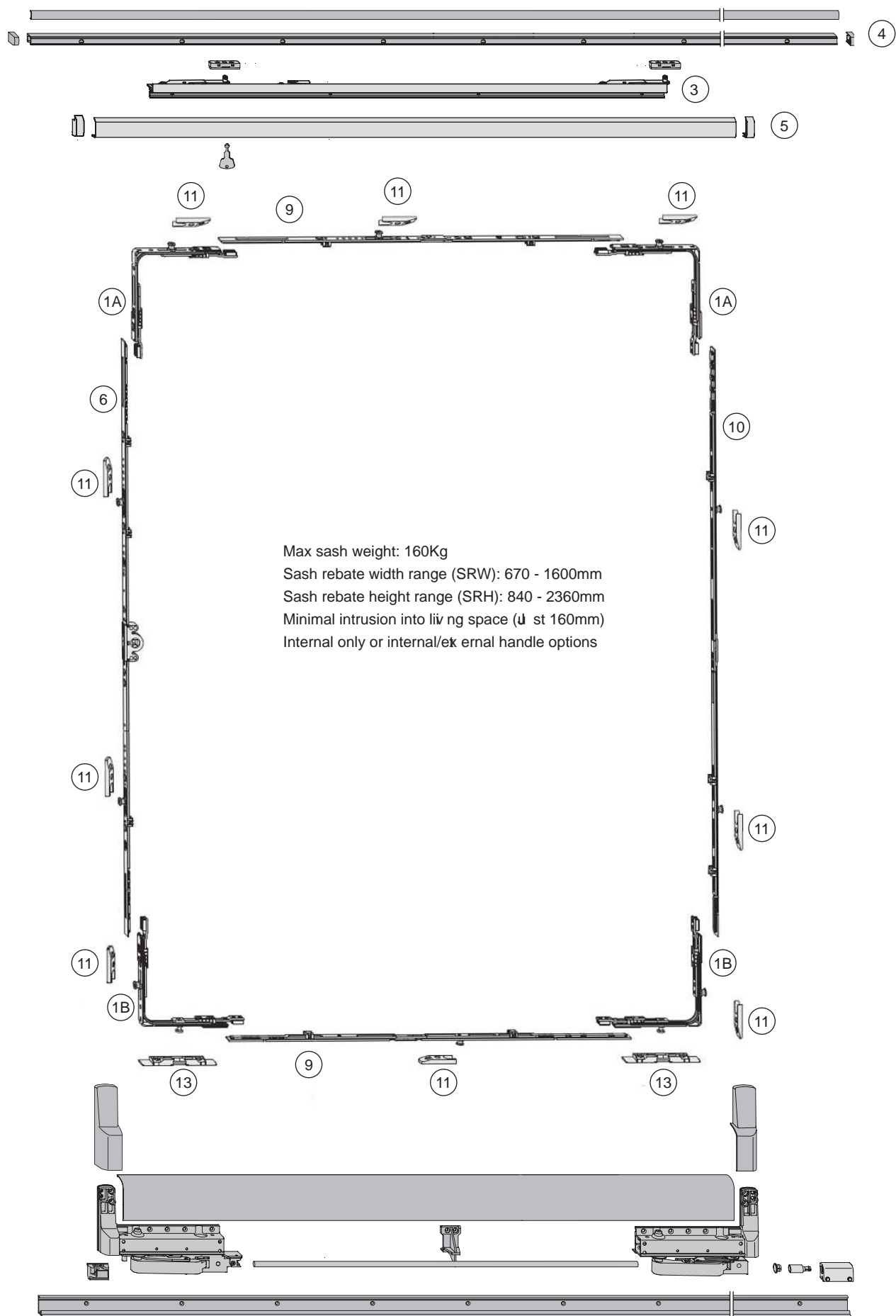
Description	VBH Code	Lkg Points	SRW (mm)	SRH (mm)	Qty Req	Box Qty
<b>TS Roller Pack</b> (Select handing)					1	
LH	4WTS1001					1
RH	4WTS1002					1
<b>Profile Pack</b> (Select SRW & colour)					1	
Size 1 White	4WTS1011		620-900			1
Size 2 White	4WTS1012		901-1050			1
Size 3 White	4WTS1013		1051-1250			1
Size 4 White	4WTS1014		1251-1450			1
Size 5 White	4WTS1015		1451-1650			1
Size 1 Brown	4WTS1016		620-900			1
Size 2 Brown	4WTS1017		901-1050			1
Size 3 Brown	4WTS1018		1051-1250			1
Size 4 Brown	4WTS1019		1251-1450			1
Size 5 Brown	4WTS1020		1451-1650			1
<b>TS Glide Stay Pack</b> (Select colour)					1	
White	4WTS1071					1
Brown	4WTS1072					1
<b>Corner Element Pack</b>	4WTS1005	2			1	1
<b>Width Connector</b> (Select SRW)					2	
Size 1	4WTS6153	1	620-900			20
Size 2	4WTS6154	1	901-1150			20
Size 3	4WTS6155	1	1151-1400			20
Size 4	4WTS6156	2	1401-1650			20
<b>15mm BS Fixed Handle Height Drive Gear</b> (Select SRH) (Lockable version also available for internal/external handle option - see alternative section)					1	
Size 6A	5MAC7208	2		1751-1850		10
Size 6	5MAC7209	2		1851-2100		10
Size 7	5MAC7210	2		2101-2350		10
Or						
<b>Alternative Fixed Handle Height Lockable Drive Gear With Cylinder Hole</b> (Select SRH & BS)					1	
Size 6 - 25BS	5MAC7221	2		1851-2100		10
Size 7 - 25BS	5MAC7222	2		2101-2350		10
Size 6 - 35BS	5MAC7225	2		1851-2100		10
Size 7 - 35BS	5MAC7226	2		2101-2350		10
<b>Rear Locking Element</b> (Select SRH)					1	
Size 6A	4WTS6147	3		1751-1850		10
Size 6	4WTS6148	3		1851-2100		10
Size 7	4WTS6149	3		2101-2350		10
<b>Casement Striker*</b>	5MAC - - - -				Count Lkg Pts	300
<b>'IS' Mushroom Striker*</b>	5MAC - - - -				4	100
<b>Sash Lifter Striker*</b>	5MAC - - - -				1	100
<b>Handle</b> (See Patio Handle section on page 79)						
<b>Fitting Jigs &amp; Accessories</b>						
Roller i g	4WTS1037				1	
Track Location i g	4WTS1036				2	
Kick-in Plate Location i g	4MTS0040				1	
Glide Stay i g	465969				1	
Torx Key Set	4MTS0041				1	

\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification



# Tilt & Slide Patio Hardware Siegenia

## Titan AF PSK Portal PLUS 160



# Tilt & Slide Patio Hardware

## Siegenia

### Titan AF PSK Portal PLUS 160

Pos.	Description	White	Brown	Silver	Lkg Points	SRW (mm)	SRH (mm)	Qty Req	Box Qty
1a	Corner Drive VSO Top	5SAF0002	5SAF0002	5SAF0002	1			2	25
1b	Corner Drive VSO Bottom	5SAF0456	5SAF0456	5SAF0456				2	25
2	<b>Basic Carton</b> (Select according to handing viewed from inside)							1	
	LH	4STS6501	4STS6501	4STS6501					1
	RH	4STS6502	4STS6502	4STS6502					1
3	<b>Tilt Stay</b> (Select according to SRW)							1	
	Size 87	4STS6007	4STS6007	4STS6007		670-870			1
	Size 107	4STS6008	4STS6008	4STS6008		871-1070			1
	Size 130	4STS6009	4STS6009	4STS6009		1071-1300			1
	Size 160	4STS6010	4STS6010	4STS6010		1301-1600			1
4	<b>Profile Set</b> (Select according to SRW & colour)							1	
	Size 87	4STS6507	4STS6511	4STS6503		670-870			1
	Size 107	4STS6508	4STS6512	4STS6504		871-1070			1
	Size 130	4STS6509	4STS6513	4STS6505		1071-1300			1
	Size 160	4STS6510	4STS6514	4STS6506		1301-1600			1
5	<b>Cover RAIL K Pack</b> (Select according to SRW & colour)							1	
	Size 87	4STS6030	4STS6034	4STS6044		670-870			1
	Size 107	4STS6031	4STS6035	4STS6045		871-1070			1
	Size 130	4STS6032	4STS6036	4STS6046		1071-1300			1
	Size 160	4STS6033	4STS6037	4STS6047		1301-1600			1
6	<b>Drive Gear - VHH 16mm B/Set</b> (Select according to SRH)							1	
		5SAF0099	5SAF0099	5SAF0099	2		1601-2000		10
		5SAF0015	5SAF0015	5SAF0015	2		2001-2360		10
	or								
	<b>Optional Locking Drive Gear - Handle &amp; Cylinder Lock Cases</b> (Select 1 of each according to backset)							1+1	
	25mm BS Handle Lockcase	5SAF0489	5SAF0489	5SAF0489					10
	25mm BS Cylinder Lockcase	5SAF0481	5SAF0481	5SAF0481					10
	30mm BS Handle Lockcase	5SAF0490	5SAF0490	5SAF0490					10
	30mm BS Cylinder Lockcase	5SAF0482	5SAF0482	5SAF0482					10
	35mm BS Handle Lockcase	5SAF0491	5SAF0491	5SAF0491					10
	35mm BS Cylinder Lockcase	5SAF0483	5SAF0483	5SAF0483					10
	40mm BS Handle Lockcase	5SAF0492	5SAF0492	5SAF0492					10
	40mm BS Cylinder Lockcase	5SAF0484	5SAF0484	5SAF0484					10
7	<b>Vertical Linkage - Handle Side</b> (Select according to SRH)							1	
	(Only required if a lockable drive gear is required)	5SAF0504	5SAF0504	5SAF0504	2		1601-2000		10
		5SAF0505	5SAF0505	5SAF0505	2		2001-2360		10
9	<b>Horizontal Linkage Top &amp; Bottom</b> (Select according to SRW)							2	
		5SAF0471	5SAF0471	5SAF0471		670-850			10
		5SAF0472	5SAF0472	5SAF0472	1	851-1200			10
		5SAF0473	5SAF0473	5SAF0473	1	1201-1600			10

\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

# Tilt & Slide Patio Hardware

## Siegenia

### Titan AF PSK Portal PLUS 160

Pos.	Description	White	Brown	Silver	Lkg Points	SRW (mm)	SRH (mm)	Qty Req	Box Qty
10	<b>Vertical Linkage - Rear</b>							1	
	(Select SRH)	5SAF0504	5SAF0504	5SAF0504	2		1601-2000		10
		5SAF0505	5SAF0505	5SAF0505	2		2001-2360		10
11	<b>Casement Striker*</b>	5SIE/5SAF ----	5SIE/5SAF ----	5SIE/5SAF ----				Count Lkg Points	500
13	<b>TBT Striker LH/RH*</b>	5SIE ----	5SIE ----	5SIE ----				2	100
	(Select according to handing)								
	<b>Handle</b> (See handle section on page 79 for options)								

\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

# Inline Slider Roto 1800

## Drive Gear



Description	VBH Code	Box Qty
1800 D/Gear 4 x 5mm Hooks & Anti-Lift Pin	4RSS0101	10
1800 D/Gear 4 x 14mm Hooks & Anti-Lift Pin	4RSS0042	10

## Handles\*\*



Description	VBH Code	Box Qty
Internal/External Handle White	4RSS0158	1
Internal/External Handle Gold	4RSS0159	1
Internal/External Handle Black	4RSS0161	1

## Buffer Stops



Description	VBH Code	Box Qty
Buffer Stop White RAL 9016	4RSS0054	20
Buffer Stop Brown RAL 8019	4RSS0055	20
Buffer Stop Black RAL 9005	4RSS0056	20

\*Profile Related. Please contact VBH for further information

\*\*Alternative greenteQ handles are also available. See page 91

## Striker Plates



Description	VBH Code	Box Qty
1-Piece Striker Plate*	4RSS - - - -	10
Individual Striker Plate*	4RSS - - - -	20

## Tandem Rollers



Description	VBH Code	Box Qty
80kg Standard Tandem Roller*	4RSS0031	100
100kg Slimline Tandem Roller*	4RSS0035	100
Height Adjusting Tool	4RSS0057	1

## Recessed Pop-Up Handles



Colour	VBH Code	Box Qty
White	4RSS0025	1
Gold	4RSS0026	1
Brushed Stainless Steel	4RSS0027	1
Brushed Stainless Steel with Cyl Hole	4RSS0030	1

# Inline Slider

## Yale (Stainless Steel EN1670:2007 Grade 4)

### Drive Gear



Description	VBH Code	Box Qty
Lockable Drive Gear 4 Hook	2SDG0500	10

### Striker Plates



Description	VBH Code	Box Qty
12mm 1-Piece Striker Plate*	2SDG - - - -	10
16mm 1-Piece Striker Plate*	2SDG - - - -	10

### Handles\*\*



Description	Finish	60-82 DT	65-86 DT	Box Qty
Internal/External Handle (PZ/Lever both sides)	White	2SDG0522	2SDG0532	20
Internal External Handle (PZ/Lever both sides)	PVD Gold	2SDG0524	2SDG0533	20
Internal/External Handle (PZ/Lever both sides)	Black	2SDG0521	2SDG0531	20
Internal/External Handle (PZ/Lever both sides)	Chrome	2SDG0528	2SDG0534	20
Internal/External Dummy Handle (No PZ or Lever)	White	2SDG0526	2SDG0536	20
Internal/External Dummy Handle (No PZ or Lever)	PVD Gold	2SDG0527	2SDG0537	20
Internal/External Dummy Handle (No PZ or Lever)	Black	2SDG0525	2SDG0535	20
Internal/External Dummy Handle (No PZ or Lever)	Chrome	2SDG0529	2SDG0538	20

### Tandem Rollers



Description	VBH Code	Box Qty
Slimline Tandem Roller R 2.5	2SDG0510	20
Slimline Tandem Roller R 2.0	2SDG0517	20

### Buffer Stops

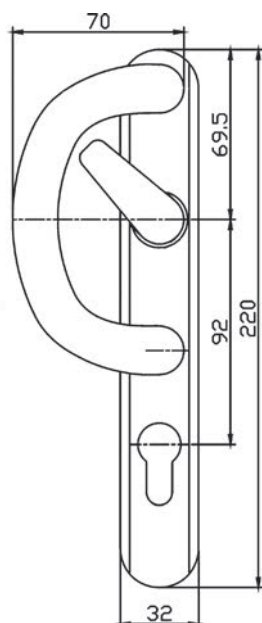


Description	VBH Code	Box Qty
Buffer Stop (Bump stop) White	2SDG0508	20
Buffer Stop (Bump stop) Black	2SDG0509	20

\*Profile Related. Please contact VBH for further information  
 \*\*Alternative greenteQ handles are also available. See page 91

# Sliding Door Handles

## Alpha P-Handle for Inline Sliding Patio Doors



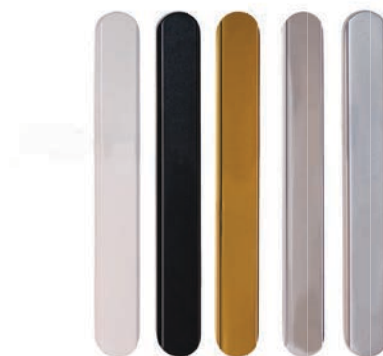
Part of the greenteQ Suite (5 finishes)  
 Handling easily reversed to reduce stock-holding  
 Fits popular Roto and Yale patio door locks  
 Available with or without profile cylinder (PZ) hole  
 Covered by the greenteQ 10 year guarantee

Finish	With PZ	Without PZ	Pull Only (No PZ or Lever)	Box Qty
White (RAL9016)	2QHB2001	2QHB2021	2QHB2031	6
Black (RAL9005)	2QHB2004	2QHB2024	2QHB2034	6
PVD Gold	2QHB2005	2QHB2025	2QHB2035	6
Polished Chrome	2QHB2006	2QHB2026	2QHB2036	6
Satin Chrome	2QHB2007	2QHB2027	2QHB2037	6

## Blank External Backplate

To be used when a handle is only required on the inside of the door

Finish	VBH Code	Box Qty
White (RAL9016)	2QHB2041	4
Black (RAL9005)	2QHB2044	4
PVD Gold	2QHB2045	4
Polished Chrome	2QHB2046	4
Satin Chrome	2QHB2047	4



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Notes

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## Notes

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# Enhanced Security Window Locking Systems

## Maco

### RAIL

Secured By Design approved

RAIL is also available in Tricoat and Tricoat Plus enhanced surface protection treatments, providing increased corrosion resistance in coastal and industrial applications (see below)

Standard Silver Finish

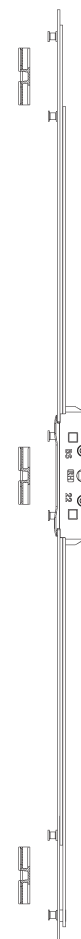
Length	MB*	20BS 7.7MB*	22BS 7.7MB*	20BS 9MB*	22BS 9MB*	22BS 10.5MB*	Box Qty
200mm	1	2WES1101	2WES1107	2WES1113	2WES1119	2WES1131	10
400mm	2	2WES1102	2WES1108	2WES1114	2WES1120	2WES1132	10
600mm	2	2WES1103	2WES1109	2WES1115	2WES1121	2WES1133	10
800mm	3	2WES1104	2WES1110	2WES1116	2WES1122	2WES1134	10
1000mm	3	2WES1105	2WES1111	2WES1117	2WES1123	2WES1135	10
1200mm	3	2WES1106	2WES1112	2WES1118	2WES1124	2WES1136	10

Tricoat

Length	MB*	20BS 7.7MB*	22BS 7.7MB*	20BS 9MB*	22BS 9MB*	20BS 10.5MB*	22BS 10.5MB*	Box Qty
200mm	1	2WES1201	2WES1207	2WES1213	2WES1219	2WES1225	2WES1231	10
400mm	2	2WES1202	2WES1208	2WES1214	2WES1220	2WES1226	2WES1232	10
600mm	2	2WES1203	2WES1209	2WES1215	2WES1221	2WES1227	2WES1233	10
800mm	3	2WES1204	2WES1210	2WES1216	2WES1222	2WES1228	2WES1234	10
1000mm	3	2WES1205	2WES1211	2WES1217	2WES1223	2WES1229	2WES1235	10
1200mm	3	2WES1206	2WES1212	2WES1218	2WES1224	2WES1230	2WES1236	10

Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom Striker	2WES - - - -	200



### RAIL Reach - Low Handle Height

Standard silver finish

Secured By Design approved

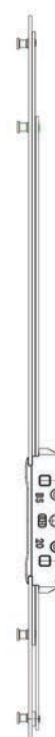
RAIL Reach is also available in Tricoat and Tricoat Plus enhanced surface protection treatments, providing increased corrosion resistance in coastal and industrial applications

Reach features a low handle height (185mm) for installations with difficult access

Length	MB*	20BS 7.7MB*	22BS 7.7MB*	20BS 9MB*	22BS 9MB*	Box Qty
600mm	2	2WES1153	2WES1159	2WES1171	2WES1177	10
800mm	3	2WES1154	2WES1160	2WES1172	2WES1178	10
1000mm	3	2WES1155	2WES1161	2WES1173	2WES1179	10
1200mm	3	2WES1156	2WES1162	2WES1174	2WES1180	10

Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom Striker	2WES - - - -	200



\*MB denotes quantity of mushroom striker plates required

\*\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

# Enhanced Security Window Locking Systems

## Roto - TSL

Silver finish

Flat 16mm faceplate

Tested to PAS024:2012

Length	MB*	20BS 8MB*	22BS 8MB*	20BS 9.5MB*	22BS 9.5MB*	20BS 10.5MB*	22BS 10.5MB*	Box Qty
300mm	1	2RWE4501	2RWE4521	2RWE4511	2RWE4531	2RWE4551	2RWE4541	10
400mm	2	2RWE4502	2RWE4522	2RWE4512	2RWE4532	2RWE4552	2RWE4542	10
600mm	2	2RWE4503	2RWE4523	2RWE4513	2RWE4533	2RWE4553	2RWE4543	10
800mm	4	2RWE4504	2RWE4524	2RWE4514	2RWE4534	2RWE4554	2RWE4544	10
900mm	4	2RWE4505	2RWE4525	2RWE4515	2RWE4535	2RWE4555	2RWE4545	10
1000mm	4	2RWE4506	2RWE4526	2RWE4516	2RWE4536	2RWE4556	2RWE4546	10
1100mm	4	2RWE4507	2RWE4527	2RWE4517	2RWE4537	2RWE4557	2RWE4547	10
1200mm	4	2RWE4508	2RWE4528	2RWE4518	2RWE4538	2RWE4558	2RWE4548	10

### Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom Striker	2RWE - - - - or 2WWE - - - -	200



## Yale - Encloser

Secured By Design approved

Corrosion resistance to EN1670:2007 Grade 4

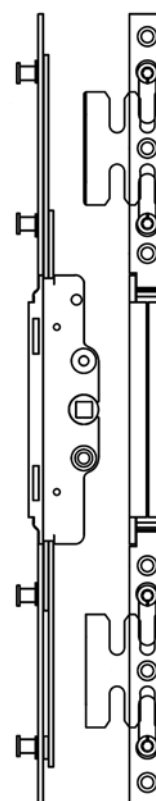
10 Year Yale Security & Mechanical Guarantee

10.5mm mushroom bolt version available to special order

Length	MB*	20BS 7.7MB*	22BS 7.7MB*	20BS 9MB*	22BS 9MB*	Box Qty
250mm	2	2YSE1001	2YSE1011	2YSE1021	2YSE1031	10
350mm	2	2YSE1002	2YSE1012	2YSE1022	2YSE1032	10
550mm	2	2YSE1003	2YSE1013	2YSE1023	2YSE1033	10
750mm	3	2YSE1004	2YSE1014	2YSE1024	2YSE1034	10
900mm	3	2YSE1005	2YSE1015	2YSE1025	2YSE1035	10
1050mm	3	2YSE1006	2YSE1016	2YSE1026	2YSE1036	10
1200mm	3	2YSE1007	2YSE1017	2YSE1027	2YSE1037	10

### Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom Striker	2YSE - - - -	200



\*MB denotes quantity of mushroom striker plates required

\*\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

# Enhanced Security Window Locking Systems

## Yale

### Blade

Fully retractable security window lock (sits flush in Eurogroove when in 'open' position)  
 Rotating blade action provides smooth closing action  
 One blade height minimises stock holding for fabricators using more than one profile system  
 Single screw fixing at ends as standard (double screw fixing available to special order if preferred)  
 Flexibility in keep positioning allows sashes and frames to be manufactured on separate lines  
 3 keep options all allow night vent position as standard  
 Aluminium construction provides corrosion resistance to BS EN 1670 Class 4 (240 hours)  
 Endurance tested to 30000 cycles  
 250 - 1599mm application range (sash rebate size)  
 Low handle height version available to special order  
 12 Year Yale guarantee



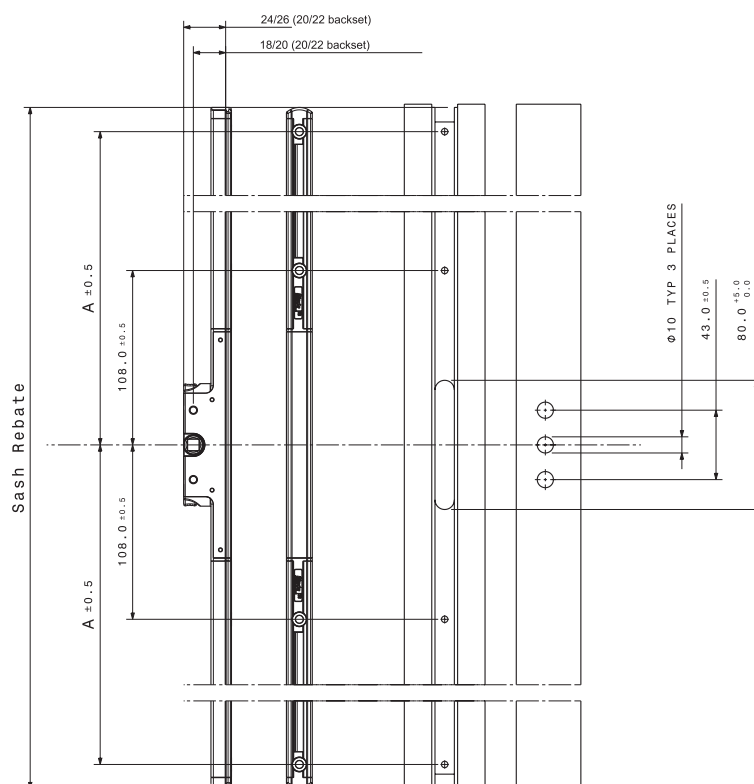
Length	20BS Non-handed	20BS LH	20BS RH	22BS Non-handed	22BS LH	22BS RH	Box Qty
230mm	-	2YBE0011	2YBE0012	-	2YBE0071	2YBE0072	10
350mm	-	2YBE0013	2YBE0014	-	2YBE0073	2YBE0074	10
400mm	2YBE0001	-	-	2YBE0061	-	-	10
520mm	2YBE0002	-	-	2YBE0062	-	-	10
640mm	2YBE0003	-	-	2YBE0063	-	-	10
760mm	2YBE0004	-	-	2YBE0064	-	-	10
880mm	2YBE0005	-	-	2YBE0065	-	-	10
1000mm	2YBE0006	-	-	2YBE0066	-	-	10
1120mm	2YBE0007	-	-	2YBE0067	-	-	10
1240mm	2YBE0008	-	-	2YBE0068	-	-	10
1360mm	2YBE0009	-	-	2YBE0069	-	-	10
1480mm	2YBE0010	-	-	2YBE0070	-	-	10

### Striker Plates\*

Description	VBH Code	Box Qty
30mm Single Fixing Keep	2YBE ----	200
60mm Double Fixing Keep	2YBE ----	200
60mm Double Fixing Adjustable Keep	2YBE ----	200

All dimensions are equal about centre of sash

Length	Dimension A	Sash Rebate Min	Sash Rebate Max
400mm	185	400	519
520mm	245	520	639
640mm	305	640	759
760mm	365	760	879
880mm	425	880	999
1000mm	485	1000	1119
1120mm	545	1120	1239
1240mm	605	1240	1359
1360mm	665	1360	1479
1480mm	725	1480	1599



\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

# Shootbolt Espagnolettes

## Maco

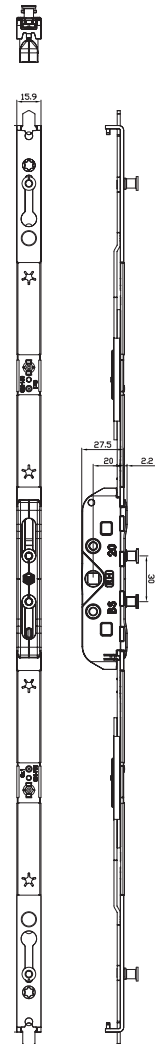
### M-SPAG

Telescopic product for easy handling & quick, accurate fitting  
 Reduced stock-holding through 5 telescopic sizes & 1 croppable size  
 M-PACK packaging  
 Exceeds current security requirements (PAS024:2012)  
 Approved under MACO Secure Plus guarantee scheme  
 Streamlined system for a neat installed finish  
 Silver-look surface treatment tested to 480 hours neutral salt spray test  
 320 – 1500mm application range  
 Fits standard & French casement windows  
 Works with Maco centre locks on tall top hung sashes  
 Can be fitted with handle offset to bottom in hard to reach installations (195mm)  
 Utilises standard Maco mushroom, shootbolt & Combi-Strikers  
 10 year Maco warranty

Description	Sash Rebate Size (mm)	MB*	20BS 7.7MB	22BS 7.7MB	20BS 9MB	22BS 9MB	Box Qty
Size 0 Crop. Gear**	320-600	1	2MSP0017	2MSP0018	2MSP0019	2MSP0020	10
Size 0 Shallow Extension	320-600	0	2MSP0021	2MSP0021	2MSP0021	2MSP0021	20
or							
Size 0 Deep Extension	320-600	0	2MSP0035	2MSP0035	2MSP0035	2MSP0035	20
Size 0 Telescopic	501-600	3	2MSP0030	2MSP0031	2MSP0032	2MSP0033	10
Size 1 Telescopic	601-700	3	2MSP0001	2MSP0005	2MSP0009	2MSP0013	10
Size 2 Telescopic	701-900	3	2MSP0002	2MSP0006	2MSP0010	2MSP0014	10
Size 3 Telescopic	901-1200	3	2MSP0003	2MSP0007	2MSP0011	2MSP0015	10
Size 4 Telescopic	1201-1500	3	2MSP0004	2MSP0008	2MSP0012	2MSP0016	10

### Striker Plates\*\*\*

Description	VBH Code	Box Qty
Mushroom Striker	2WES - - - -	200
Shootbolt Striker (Link with mushroom striker in corner)	2MSE - - - -	200
Combi Striker (Combined mushroom/shootbolt striker)	2MSE - - - -	100



\*MB denotes quantity of mushroom striker plates required  
 \*\*Use with shallow groove or deep groove shootbolt extension  
 \*\*\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

# Shootbolt Espagnolettes Maco

Mk 1

Tested to PAS024:2012

Approved under MACO Secure Plus guarantee scheme

Secured By Design approved

Silver-look surface treatment tested to 480 hours neutral salt spray test

Also available in Tricoat enhanced protection treatment, which provides increased corrosion resistance in coastal and industrial applications

10 year Maco warranty

Description	Sash Rebate Size (mm)	MB*	20BS 7.7MB*	22BS 7.7MB*	20BS 9MB*	22BS 9MB*	Box Qty
Gearbox			2MSE2001	2MSE2002	2MSE2001	2MSE2002	40
Gearbox (with screw spacers)			2MSE2031	2MSE2032	2MSE2031	2MSE2032	40
Single Extension	320-400	0	2MSE2510	2MSE2510	2MSE2510	2MSE2510	40
Single Extension	401-800	1	2MSE2015	2MSE2015	2MSE2018	2MSE2018	40
Single Extension	801-1100	2	2MSE2016	2MSE2016	2MSE2019	2MSE2019	40
Single Extension	1101-1400	2	2MSE2017	2MSE2017	2MSE2020	2MSE2020	40
N.B If offset handle height position is required then fit the following extensions above handle							
Gear Extension 250mm		1	2MSE2022	2MSE2022	2MSE2021	2MSE2021	20

## Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom Striker	2WES - - - -	200
Shootbolt Striker (Link with mushroom striker in corner)	2MSE - - - -	200
Combi Striker (Combined mushroom/shootbolt striker)	2MSE - - - -	100
Stabilizing Plate	2MSE - - - -	200



Refer to VBH for availability of Tricoat finish (extra corrosion resistance)

\*MB denotes quantity of mushroom striker plates required

\*\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification





# Shootbolt Espagnolettes

## Maco

### Mach II - Rapid Fix

No cropping required

Tested to PAS024:2012

Approved under MACO Secure Plus guarantee scheme

Secured By Design approved

Silver-look surface treatment tested to 480 hours neutral salt spray test

10 year Maco warranty

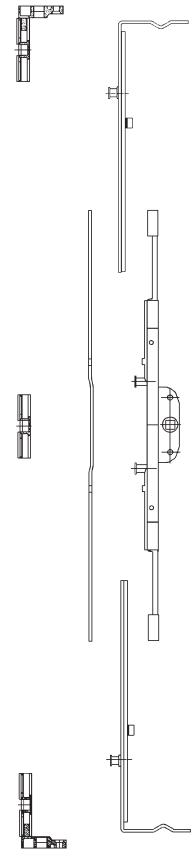
Description	Sash Rebate Size (mm)	MB*	20BS 7.7MB*	22BS 7.7MB*	20BS 9MB*	22BS 9MB*	Box Qty
Gearbox		1	2MSE2501	2MSE2502	2MSE2503	2MSE2504	20
Single Extension	500-600	0	2MSE2511	2MSE2511	2MSE2511	2MSE2511	40
Single Extension	601-700	1	2MSE2512	2MSE2512	2MSE2522	2MSE2522	40
Single Extension	701-800	1	2MSE2513	2MSE2513	2MSE2523	2MSE2523	40
Single Extension	801-900	1	2MSE2514	2MSE2514	2MSE2524	2MSE2524	40
Single Extension	901-1000	1	2MSE2515	2MSE2515	2MSE2525	2MSE2525	40
Single Extension	1001-1100	1	2MSE2516	2MSE2516	2MSE2526	2MSE2526	40
Single Extension	1101-1200	1	2MSE2517	2MSE2517	2MSE2527	2MSE2527	40
Single Extension	1201-1300	1	2MSE2518	2MSE2518	2MSE2528	2MSE2528	40
Single Extension	1301-1400	1	2MSE2519	2MSE2519	2MSE2529	2MSE2529	20

N.B If offset handle height position is required then fit the following extensions above handle

Gear Extension 250mm		1	2MSE2022	2MSE2022	2MSE2021	2MSE2021	20
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### Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom Stiker	2WES - - - -	200
Shootbolt Striker (Link with mushroom striker in corner)	2MSE - - - -	200
Combi Striker (Combined mushroom/shootbolt striker)	2MSE - - - -	100
Stabiliz ng Plate	2MSE - - - -	200



### Mach II - Croppable

Extensions must be cropped to size

Tested to PAS024:2012

Approved under MACO Secure Plus guarantee scheme

Secured By Design approved

Silver-look surface treatment tested to 480 hours neutral salt spray test

10 year Maco warranty

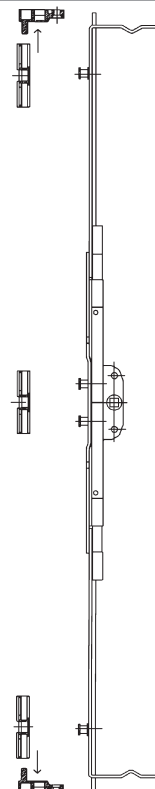
Description	Sash Rebate Size (mm)	MB*	20BS 7.7MB*	22BS 7.7MB*	20BS 9MB*	22BS 9MB*	Box Qty
Gearbox		1	2MSE2505	2MSE2506	2MSE2507	2MSE2508	20
Single Extension	382-450	0	2MSE2510	2MSE2510	2MSE2510	2MSE2510	40
Single Extension	451-920	1	2MSE2015	2MSE2015	2MSE2018	2MSE2018	40
Single Extension	801-1100	1	2MSE2542	2MSE2542	2MSE2552	2MSE2552	40
Single Extension	1101-1400	1	2MSE2543	2MSE2543	2MSE2553	2MSE2553	40

N.B If offset handle height position is required then fit the following extensions above handle

Gear Extension 250mm		1	2MSE2022	2MSE2022	2MSE2021	2MSE2021	20
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### Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom Stiker	2WES - - - -	200
Shootbolt Striker (Link with mushroom striker in corner)	2MSE - - - -	200
Combi Striker (Combined mushroom/shootbolt striker)	2MSE - - - -	100
Stabiliz ng Plate	2MSE - - - -	200



Refer to VBH for availability of Tricoat finish (extra corrosion resistance)

\*MB denotes quantity of mushroom striker plates required

\*\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

# Shootbolt Espagnolettes Yale

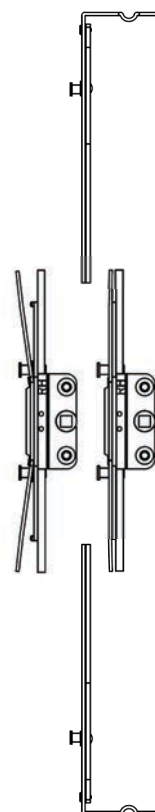
## Shootbolt - Standard

Secured By Design approved  
Sash rebate size 326-1420mm  
Corrosion resistance to EN1670:2007 Grade 4  
10 Year Yale Security & Mechanical Guarantee

Description	Sash Rebate Size (mm)	MB*	20BS 7.7MB*	22BS 7.7MB*	20BS 9MB*	22BS 9MB*	Box Qty
Gearbox	326-1420	2	2YSE2505	2YSE2506	2YSE2507	2YSE2508	40
Single Extension 0	326-474	0	2YSE2511	2YSE2511	2YSE2511	2YSE2511	40
Single Extension 3	368-820	1	2YSE2514	2YSE2514	2YSE2524	2YSE2524	40
Single Extension 5	708-1120	1	2YSE2516	2YSE2516	2YSE2526	2YSE2526	40
Single Extension 7	970-1420	1	2YSE2518	2YSE2518	2YSE2528	2YSE2528	40

### Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom N/V Striker	2YSE - - - -	200
Shootbolt Striker LH	2YSE - - - -	200
Shootbolt Striker RH	2YSE - - - -	200



## Shootbolt - Extendable

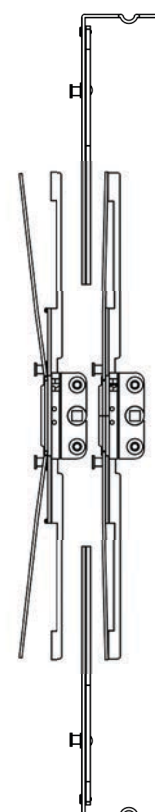
Secured By Design approved  
Sash rebate size 476-1520mm  
Extendable version speeds up fitting time and reduces waste  
Corrosion resistance to EN1670:2007 Grade 4  
10 Year Yale Security & Mechanical Guarantee

Description	Sash Rebate Size (mm)	MB*	20BS 7.7MB*	22BS 7.7MB*	20BS 9MB*	22BS 9MB*	Box Qty
Gearbox	476-1520	2	2YSE2501	2YSE2502	2YSE2503#	2YSE2504	40
Single Extension 0	476-624	0	2YSE2511	2YSE2511	2YSE2511	2YSE2511	40
Single Extension 1	520-670	1	2YSE2512	2YSE2512	2YSE2522	2YSE2522	40
Single Extension 2	671-820	1	2YSE2513	2YSE2513	2YSE2523	2YSE2523	40
Single Extension 3	821-970	1	2YSE2514	2YSE2514	2YSE2524	2YSE2524	40
Single Extension 4	971-1120	1	2YSE2515	2YSE2515	2YSE2525	2YSE2525	40
Single Extension 5	1121-1270	1	2YSE2516	2YSE2516	2YSE2526	2YSE2526	40
Single Extension 6	1271-1420	1	2YSE2517	2YSE2517	2YSE2527	2YSE2527	40
Single Extension 7	1421-1520	1	2YSE2518	2YSE2518	2YSE2528	2YSE2528	40

### Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom N/V Striker	2YSE - - - -	200
Shootbolt Striker LH	2YSE - - - -	200
Shootbolt Striker RH	2YSE - - - -	200

\*MB denotes quantity of mushroom striker plates required  
\*\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification  
#Special Order



# Outward Opening Window Espagnolettes

## Maco

### Inline

Silver finish

Inline gearbox

Flat 16mm faceplate

Also available in Tricoat. Tricoat is an enhanced surface treatment providing increased corrosion resistance in coastal and industrial applications. Refer to VBH for further information.

Length	MB*	20BS 7.7MB*	22BS 7.7MB*	20BS 9MB*	22BS 9MB*	22BS 10.5MB*	Box Qty
100mm	1	2WES2197	2WES2249	2WES2248	2WES2250	-	20
260mm	2	2WES2198	2WES2174	2WES2210	2WES2204	-	20
400mm	2	2WES2199	2WES2175	2WES2211	2WES2205	2WES2257	20
600mm	2	2WES2200	2WES2176	2WES2212	2WES2206	2WES2258	20
800mm	2	2WES2201	2WES2177	2WES2213	2WES2207	2WES2259	20
1000mm	3	2WES2202	2WES2178	2WES2214	2WES2208	2WES2260	20
1200mm	3	2WES2203	2WES2179	2WES2215	2WES2209	-	20

### Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom Striker	2WES - - -	200



### Offset

Silver finish

Offset gearbox

Flat 16mm faceplate

Can be surface fitted (no Eurogroove required)

Also available in Tricoat. Tricoat is an enhanced surface treatment providing increased corrosion resistance in coastal and industrial applications. Refer to VBH for further information.

Length	MB*	20BS 7.7MB*	25BS 7.7MB*	20BS 9MB*	25BS 9MB*	Box Qty
310mm	2	2WES2186	2WES2192	2WES2180	2WES2233	20
400mm	2	2WES2187	2WES2193	2WES2181	2WES2234	20
600mm	2	2WES2188	2WES2194	2WES2182	2WES2235	20
800mm	2	2WES2189	2WES2195	2WES2183	2WES2236	20
1000mm	3	2WES2190	2WES2196	2WES2184	2WES2237	20
1200mm	3	2WES2191	2WES2173	2WES2185	57174	20

### Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom Striker	2WES - - -	200



Refer to VBH for availability of Tricoat finish (extra corrosion resistance)

\*MB denotes quantity of mushroom striker plates required

\*\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

# Outward Opening Window Espagnolettes

## greenteQ - Window Espagnolette

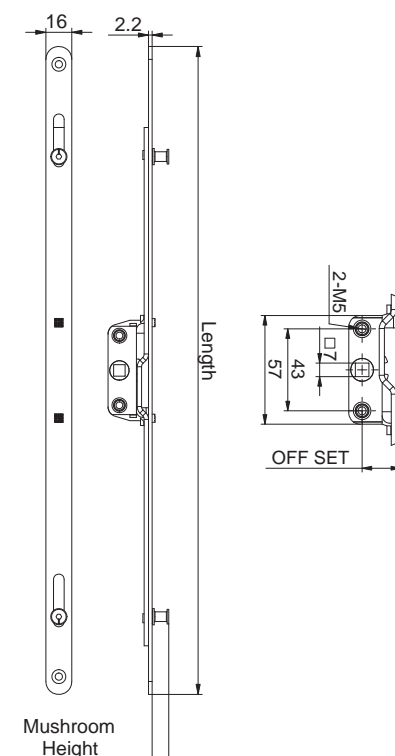
Inline gearbox

Flat 16mm faceplate for Eurogroove fit

Length	No of MB	20BS 7.7MB	22BS 7.7MB	20BS 9MB	22BS 9MB	Box Qty
250mm	2	2QWE1198	2QWE1174	2QWE1210	2QWE1204	10
400mm	2	2QWE1199	2QWE1175	2QWE1211	2QWE1205	10
600mm	2	2QWE1200	2QWE1176	2QWE1212	2QWE1206	10
800mm	2	2QWE1201	2QWE1177	2QWE1213	2QWE1207	10
1000mm	3	2QWE1202	2QWE1178	2QWE1214	2QWE1208	10
1200mm	3	2QWE1203	2QWE1179	2QWE1215	2QWE1209	10

### Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom Striker	2QWE - - - -	200



## Roto - K-GTR

Silver finish

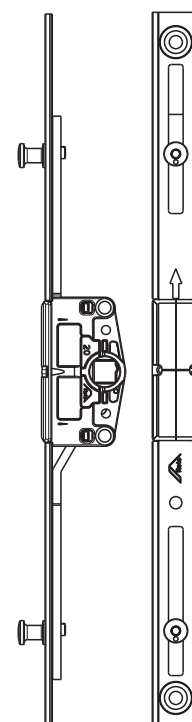
Inline gearbox

16mm NT faceplate for Eurogroove fit

Length	MB*	20BS 8MB	22BS 8MB	20BS 9.5MB	22BS 9.5MB	Box Qty
240mm	2	2RWE3151	2RWE3157	2RWE3163	2RWE3169	10
400mm	2	2RWE3152	2RWE3158	2RWE3164	2RWE3170	10
600mm	2	2RWE3153	2RWE3159	2RWE3165	2RWE3171	10
800mm	2	2RWE3154	2RWE3160	2RWE3166	2RWE3172	10
1000mm	3	2RWE3155	2RWE3161	2RWE3167	2RWE3173	10
1200mm	3	2RWE3156	2RWE3162	2RWE3168	2RWE3174	10

### Striker Plate\*\*

Description	VBH Code	Box Qty
Mushroom Striker	2RWE - - - - or 2WWE - - - -	100



\*MB denotes quantity of mushroom striker plates required

\*\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification



# French Casement Window Gear

## Maco

### M-SPAG

Use standard M-SPAG on active sash with French Casement M-SPAG on passive

**Important note!** It is necessary to use special shootbolt strikers with offset fixing positions to clear the end cap. Contact us for VBH codes for your system

#### Standard M-SPAG

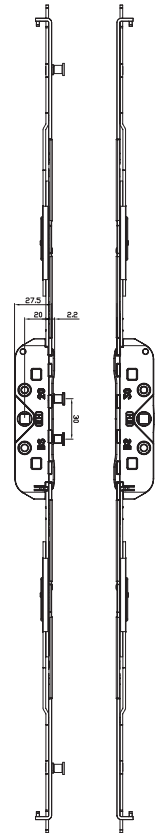
Description	Sash Rebate Size (mm)	MB*	20BS 7.7MB*	22BS 7.7MB*	20BS 9MB*	22BS 9MB*	Box Qty
Size 1	601-700	3	2MSP0001	2MSP0005	2MSP0009	2MSP0013	10
Size 2	701-900	3	2MSP0002	2MSP0006	2MSP0010	2MSP0014	10
Size 3	901-1200	3	2MSP0003	2MSP0007	2MSP0011	2MSP0015	10
Size 4	1201-1500	3	2MSP0004	2MSP0008	2MSP0012	2MSP0016	10

#### French Casement M-SPAG

Description	Sash Rebate Size (mm)	MB*	20BS	22BS	Box Qty
Size 1	601-700	0	2MSP0022	2MSP0026	10
Size 2	701-900	0	2MSP0023	2MSP0027	10
Size 3	901-1200	0	2MSP0024	2MSP0028	10
Size 4	1201-1500	0	2MSP0025	2MSP0029	10

#### Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom N/V Striker (MB)	2WES - - - -	100
French Casement Shootbolt Striker	2MSP - - - -	200



\*MB denotes quantity of mushroom striker plates required

\*\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification

# French Casement Window Gear

## Maco

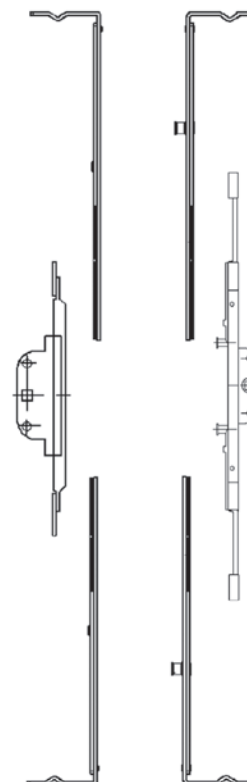
### Mach II

10 Year Maco guarantee

Description	Sash Rebate Size (mm)	MB*	20BS 7.7MB	22BS 7.7MB	20BS 9MB	22BS 9MB	Box Qty
Active Sash Gearbox		1	2MSE2505	2MSE2506	2MSE2507	2MSE2508	20
Passive Sash Gearbox		0	2MSE2001	2MSE2002	2MSE2001	2MSE2002	40
Active Sash Extension	600-1000	1	2MSE3117	2MSE3117	2MSE3120	2MSE3120	40
Active Sash Extension	1001-1400	1	2MSE3118	2MSE3118	2MSE3121	2MSE3121	40
Active Sash Extension	1001-1400	2	2MSE3119	2MSE3119	2MSE3122	2MSE3122	40
Passive Sash Extension	600-1000	0	2MSE3115	2MSE3115	2MSE3115	2MSE3115	40
Passive Sash Extension	1001-1400	0	2MSE3116	2MSE3116	2MSE3116	2MSE3116	40

### Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom Striker	2WES - - - -	200
Shootbolt Striker	2MSE - - - -	200
Stabilizing Plate	2MSE - - - -	200



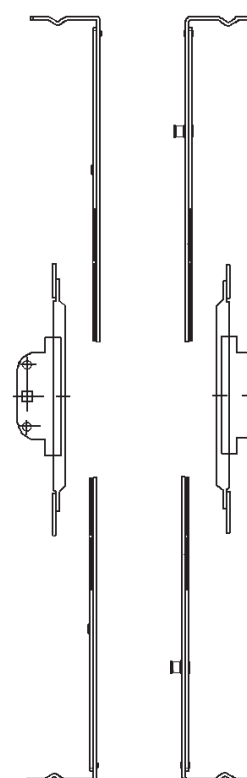
### Mk 1

10 Year Maco guarantee

Description	Sash Rebate Size (mm)	MB*	20BS 7.7MB	22BS 7.7MB	20BS 9MB	22BS 9MB	Box Qty
Gearbox		0	2MSE2001	2MSE2002	2MSE2001	2MSE2002	40
Active Sash Extension	600-1000	1	2MSE3117	2MSE3117	2MSE3120	2MSE3120	40
Active Sash Extension	1001-1400	1	2MSE3118	2MSE3118	2MSE3121	2MSE3121	40
Active Sash Extension	1001-1400	2	2MSE3119	2MSE3119	2MSE3122	2MSE3122	40
Passive Sash Extension	600-1000	0	2MSE3115	2MSE3115	2MSE3115	2MSE3115	40
Passive Sash Extension	1001-1400	0	2MSE3116	2MSE3116	2MSE3116	2MSE3116	40

### Striker Plates\*\*

Description	VBH Code	Box Qty
Mushroom Striker	2WES - - - -	200
Shootbolt Striker	2MSE - - - -	200
Stabilizing Plate	2MSE - - - -	200



\*MB denotes quantity of mushroom striker plates required

\*\*Contact VBH or visit [www.vbhgb.com](http://www.vbhgb.com) for profile related parts specification





## TSH 30

Expanding possibilities for modern windows.



“You can't have it that tall. There's no suitable hardware.”

### Have you heard that one before?

You're not alone. Demand for larger, heavier windows is increasing.

You need to specify larger glazed areas. Triple glazing may be required.

The windows you require might be contemporary in style, or heritage replacements. Either way, you just want to stipulate height and width, without technical restrictions.

That's why we've introduced a brand new hardware system for casement windows.

It's called TSH 30. It blends the tried-and-tested with the brand new.

We've designed a new gearbox, a range of frame components and an ingenious new ventilation system.

It's tilt and turn style locking, on an outward-opening window.

### The possibilities are enormous.

Now you can have locking on three sides of a sash. That's not all.

You can utilise our secure corner drives, specify our original Twincam extensions, and even add hooks.

Low handle heights are easily achieved.

Whichever specification you choose, your windows will have the security, durability and smoothness provided by the finest hardware in the world.

Hardware that's been used across the globe. For hurricane specifications in Florida, typhoon rated buildings in Korea and PassivHaus projects in Berlin.

If you have the hinges to hold it (like the Roto Designo hinges), Roto TSH 30 can lock it.

Roto Security Label:



Window and Door Technology – Contact VBH for your bespoke TSH30 solution

# Espagnolette Handles greenteQ

## Alpha Inline - Locking



Inline locking

Key to lock

Push to release

Also available in retail-friendly blister packs

Spindle Size	White RAL9016	Polished Gold	PVD Gold	Polished Chrome	Satin Chrome	Black RAL9005	Smokey Chrome	Box Qty
10mm	2QEH0001	2QEH0004	2QEH0002	2QEH0003	2QEH0005	2QEH0006	-	25
15mm	2QEH0011	2QEH0014	2QEH0012	2QEH0013	2QEH0015	2QEH0016	-	25
20mm	2QEH0021	2QEH0024	2QEH0022	2QEH0023	2QEH0025	2QEH0026	-	25
25mm	2QEH0031	2QEH0034	2QEH0032	2QEH0033	2QEH0035	2QEH0036	-	25
30mm	2QEH0041	2QEH0044	2QEH0042	2QEH0043	2QEH0045	2QEH0046	2QEH0047	25
35mm	2QEH0051	2QEH0054	2QEH0052	2QEH0053	2QEH0055	2QEH0056	-	25
40mm	2QEH0061	2QEH0064	2QEH0062	2QEH0063	2QEH0065	2QEH0066	-	25
50mm	-	2QEH0074	-	2QEH0073	2QEH0075	-	-	25
55mm	2QEH0091	2QEH0094	2QEH0092	2QEH0093	2QEH0095	2QEH0096	2QEH0097	25

## Accessories

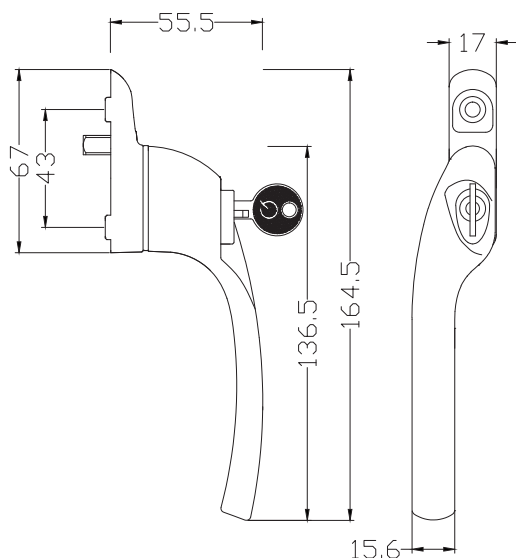
Description	White	Gold	Brushed Silver	Bright Chrome	Black	Smokey Chrome	Box Qty
Cover Cap	2QEH2001	2QEH2002	2QEH2003	2QEH2006	2QEH2004	2QEH2005	1000
Description				White	Black	Green	Box Qty
Keyway Blanking Insert				2QEH2011	2QEH2012	2QEH2013	1000
Description				White	Black	Green	Box Qty
Keyway Blanking Plug				2QEH2031	2QEH2032	2QEH2033	1000
Description						VBH Code	Box Qty
Spare Key						2QEH2000	1000



Note: Handle design may be subject to change to facilitate product development

# Espagnolette Handles greenteQ

## Alpha Offset - Locking



Offset locking  
Key to lock  
Push to release

Spindle Size	White LH	White RH	Pol.Gold LH	Pol.Gold RH	PVD Gold LH	PVD Gold RH	P.Chrome LH	P.Chrome RH	Box Qty
10mm	2QEH1001	2QEH1002	2QEH1007	2QEH1008	2QEH1003	2QEH1004	2QEH1005	2QEH1006	25
15mm	2QEH1021	2QEH1022	2QEH1027	2QEH1028	2QEH1023	2QEH1024	2QEH1025	2QEH1026	25
20mm	2QEH1041	2QEH1042	2QEH1047	2QEH1048	2QEH1043	2QEH1044	2QEH1045	2QEH1046	25
25mm	2QEH1061	2QEH1062	2QEH1067	2QEH1068	2QEH1063	2QEH1064	2QEH1065	2QEH1066	25
30mm	2QEH1081	2QEH1082	2QEH1087	2QEH1088	2QEH1083	2QEH1084	2QEH1085	2QEH1086	25
35mm	2QEH1101	2QEH1102	2QEH1107	2QEH1108	2QEH1103	2QEH1104	2QEH1105	2QEH1106	25
40mm	2QEH1121	2QEH1122	2QEH1127	2QEH1128	2QEH1123	2QEH1124	2QEH1125	2QEH1126	25

Spindle Size	Satin Chr LH	Satin Chr RH	Black LH	Black RH	Sm.Chr LH	Sm.Chr RH	Box Qty
10mm	2QEH1009	2QEH1010	2QEH1011	2QEH1012	-	-	25
15mm	2QEH1029	2QEH1030	2QEH1031	2QEH1032	-	-	25
20mm	2QEH1049	2QEH1050	2QEH1051	2QEH1052	-	-	25
25mm	2QEH1069	2QEH1070	2QEH1071	2QEH1072	-	-	25
30mm	2QEH1089	2QEH1090	2QEH1091	2QEH1092	2QEH1093	2QEH1094	25
35mm	2QEH1109	2QEH1110	2QEH1111	2QEH1112	2QEH1113	2QEH1114	25
40mm	2QEH1129	2QEH1130	2QEH1131	2QEH1132	-	-	25
50mm	2QEH1169	2QEH1170	-	-	-	-	25
65mm	2QEH1229	2QEH1230	-	-	-	-	25

## Accessories

Description	White	Gold	Brushed Silver	Bright Chrome	Black	Smokey Chrome	Box Qty
Cover Cap	2QEH2001	2QEH2002	2QEH2003	2QEH2006	2QEH2004	2QEH2005	1000
Description				White	Black	Green	Box Qty
Keyway Blanking Insert				2QEH2011	2QEH2012	2QEH2013	1000
Description				White	Black	Green	Box Qty
Keyway Blanking Plug				2QEH2031	2QEH2032	2QEH2033	1000
Description						VBH Code	Box Qty
Spare Key						2QEH2000	1000



Note: Handle design may be subject to change to facilitate product development

# Espagnolette Handles

## greenteQ

Alpha - Retail Friendly Blister Pack



- Inline locking
- Key to lock
- Push to release
- Notched spindle for easy cutting (maximum 40mm)
- Supplied in white ONLY
- Supplied with consumer-friendly fitting instructions

Description	VBH Code	Box Qty
Alpha Blister Pack - White	2QEH0501	10





# Espagnolette Handles

## Securistyle

### Virage Inline - Locking

Inline locking

Key to lock

Push to release

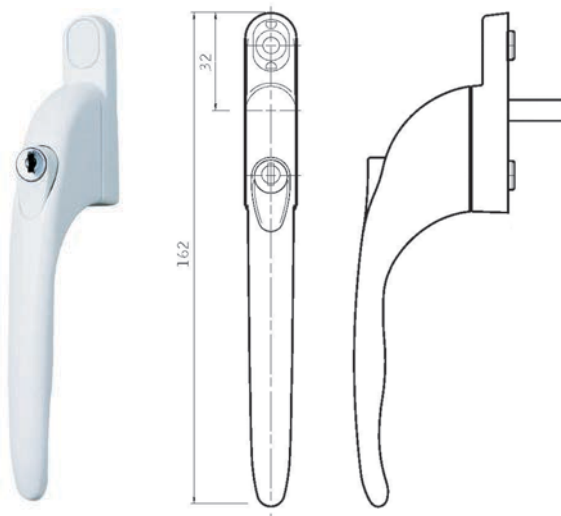
All handles supplied with key and cover caps

BBA Approved (Cert:17/5403)

Spindle Size	White	Brass	Box Qty
9mm	2SEH0071	2SEH0072	25
15mm	2SEH0073	2SEH0074	25
20mm	2SEH0075	2SEH0076	25
25mm	2SEH0077	2SEH0078	25
40mm	2SEH0081	2SEH0082	25
50mm	2SEH0085	-	25

### Accessories

Description	White	Brass	Box Qty
Spare Cover Cap	2SEH0025	2SEH0026	100
Description	Spare Key	Box Qty	
Spare Key	2SEH0027	100	



### Virage Offset - Locking

Offset locking

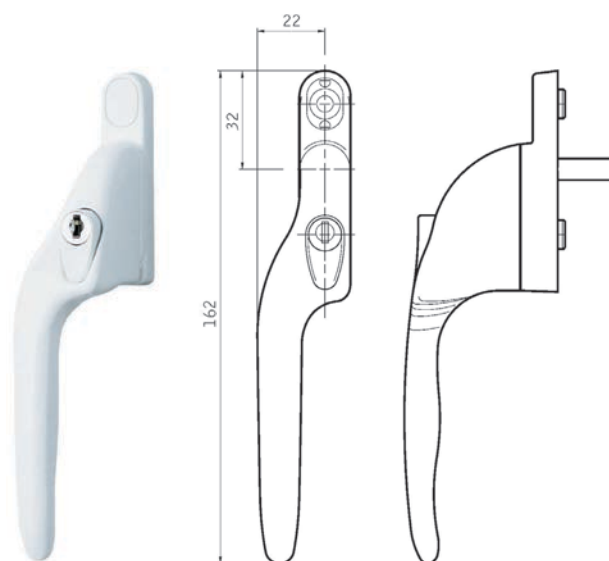
Key to lock

Push to release

All handles supplied with key and cover caps

BBA Approved (Cert:17/4503)

Spindle Size	White LH	White RH	Brass LH	Brass RH	Box Qty
9mm	2SEH0001	2SEH0002	2SEH0013	2SEH0014	25
12mm	2SEH0242	2SEH0243	2SEH0240	2SEH0241	25
15mm	2SEH0003	2SEH0004	2SEH0015	2SEH0016	25
25mm	2SEH0007	2SEH0008	2SEH0019	2SEH0020	25
30mm	2SEH0009	2SEH0010	2SEH0021	2SEH0022	25
40mm	2SEH0011	2SEH0012	2SEH0023	2SEH0024	25
Spindle Size	P.Chrome LH	P.Chrome RH	S.Chrome LH	S.Chrome RH	Box Qty
12mm	2SEH0244	2SEH0245	2SEH0040	2SEH0041	25
15mm	2SEH0204	2SEH0205	2SEH0267	2SEH0268	25
25mm	2SEH0252	2SEH0253	2SEH0273	2SEH0274	25
30mm	2SEH0256	2SEH0257	-	-	25
40mm	2SEH0260	2SEH0261	2SEH0275	2SEH0276	25



### Accessories

Description	White	Brass	Box Qty
Spare Cover Cap	2SEH0025	2SEH0026	100
Description	Spare Key	Box Qty	
Spare Key	2SEH0027	100	

Other finishes and spindle lengths may be available - please enquire



# **BLADE.**

## **THE REVOLUTIONARY NEW CONCEPT IN WINDOW LOCK TECHNOLOGY.**

**Cut fabrication time, labour, production cost, fixings, stock holding and call backs.**

An ASSA ABLOY Group brand

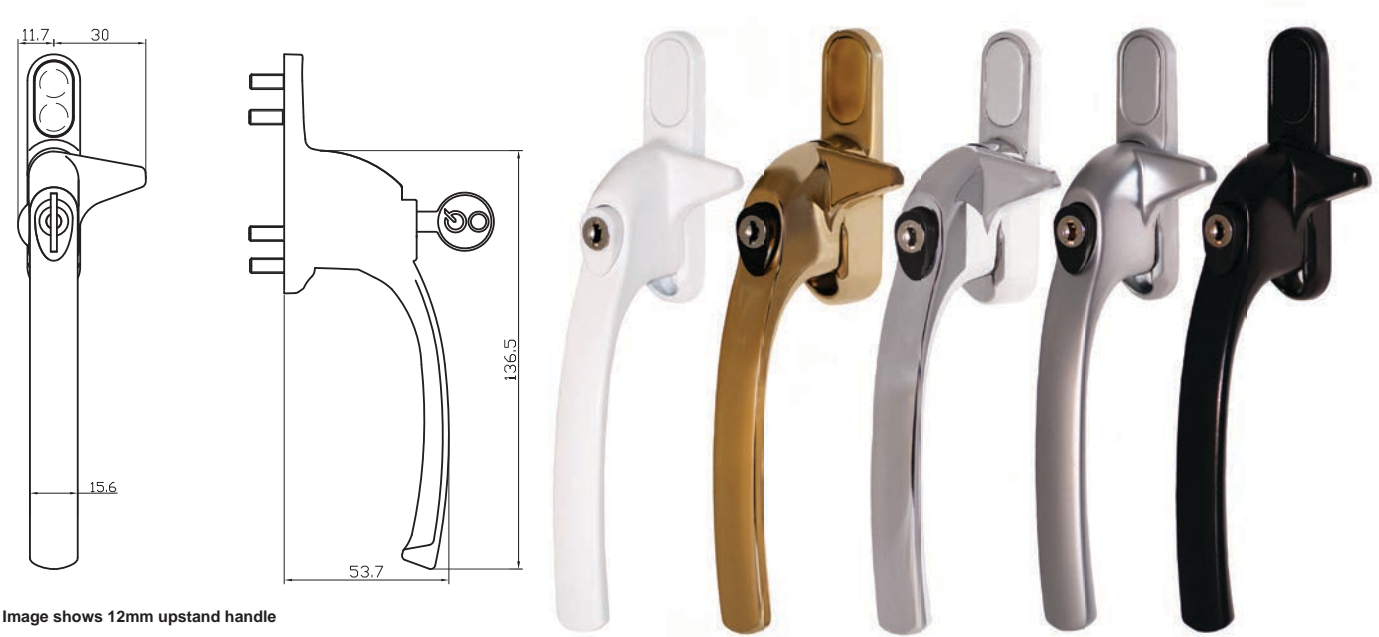
**ASSA ABLOY**



# Cockspur Handles

## greenteQ

### Alpha - Locking



Offset locking  
 Key to lock  
 Push to release  
 All handles are supplied with key and cover caps

Upstand	White LH	White RH	P.Gold LH	P.Gold RH	P.Chrome LH	P.Chrome RH	S.Chrome LH	S.Chrome RH	Black LH	Black RH	Box Qty
12mm	2QCH0001	2QCH0002	-	-	2QCH0005	2QCH0006	2QCH0009	2QCH0010	2QCH0011	2QCH0012	25
21mm	2QCH0021	2QCH0022	2QCH0027	2QCH0028	2QCH0025	2QCH0026	2QCH0029	2QCH0030	2QCH0031	2QCH0032	25

### Accessories

Description	White	Gold	Silver	Black	Box Qty
Cover Cap	2QCH2001	2QCH2002	2QCH2003	2QCH2004	1000

Description	White	Black	Green	Box Qty
Keyway Blanking Insert	2QEH2011	2QEH2012	2QEH2013	1000

Description	White	Black	Green	Box Qty
Keyway Blanking Plug	2QEH2031	2QEH2032	2QEH2033	1000

Description	White	Black	Box Qty
Easy Fix Wedge 3mm	2QCH2018	2QCH2017	100
Easy Fix Wedge 4mm	2QCH2016	2QCH2015	100
Easy Fix Wedge 5mm	2QCH2014	2QCH2013	100



# Cockspur Handles

## Securistyle

### Virage - Locking

Offset

Key to lock

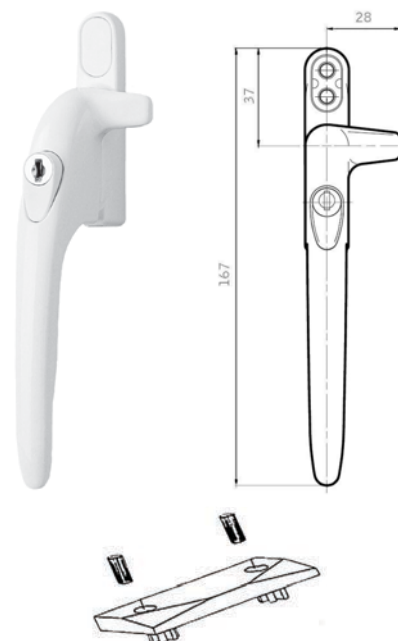
Push to release

All handles supplied with key and cover caps

Upstand	White LH	White RH	Brass LH	Brass RH	Box Qty
9mm	2SEH0108	2SEH0109	2SEH0106	2SEH0107	25
21mm	2SEH0100	2SEH0101	2SEH0102	2SEH0103	25
Upstand	Silver LH	Silver RH	Black LH	Black RH	Box Qty
9mm	2SEH0110	2SEH0111	2SEH0112	2SEH0113	25

### Accessories

Description	White	Black	Box Qty
Easy Fix Wedge 3mm	2QCH2018	2QCH2017	100
Easy Fix Wedge 4mm	2QCH2016	2QCH2015	100
Easy Fix Wedge 5mm	2QCH2014	2QCH2013	100
Spare Cover Cap	2SEH0116	2SEH0115	100
Description		VBH Code	Box Qty
Spare Key		2SEH0027	100



### Virage - Non-locking

Offset

Non-locking

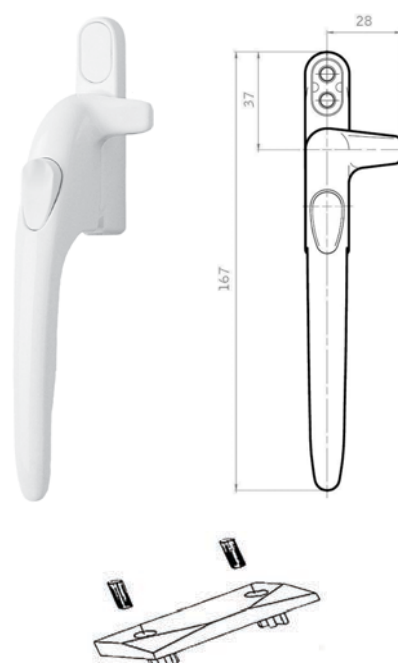
Push to release

All handles supplied with cover caps

Upstand	White LH	White RH	Silver LH	Silver RH	Box Qty
9mm	2SEH0121	2SEH0122	2SEH0123	2SEH0124	25
21mm	2SEH0131	2SEH0132	#	#	25

### Accessories

Description	White	Black	Box Qty
Easy Fix Wedge 3mm	2QCH2018	2QCH2017	100
Easy Fix Wedge 4mm	2QCH2016	2QCH2015	100
Easy Fix Wedge 5mm	2QCH2014	2QCH2013	100
Spare Cover Cap	2SEH0116	2SEH0115	100



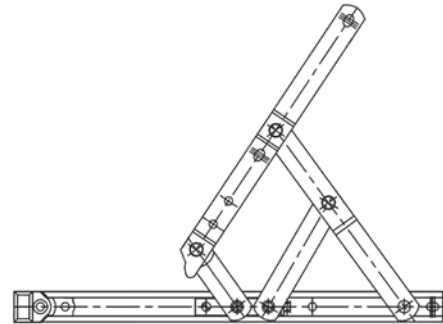
# Friction Stays - Standard

## greenteQ - Delta

### Standard - Top Hung

Sold in pairs

Size	Max Sash Width (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	17mm Stack	Box Qty
8"	1200	300	10	62°	2QFH1001	2QFH1031	50
10"	1200	450	16	90°	2QFH1002	2QFH1032	50
12"	1200	600	21	86°	2QFH1003	2QFH1033	25
16"	1200	750	22	83°	2QFH1004	2QFH1034	25
20"	1200	900	24	42°	2QFH1005	2QFH1035	25
24"	1200	1500	50	38°	2QFH1006	2QFH1036	25



### Standard - Side Hung

Sold in pairs

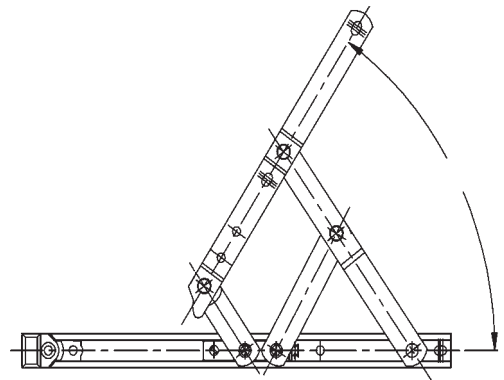
Size	Max Sash Width (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	17mm Stack	Box Qty
12"	650	1250	20	60°	2QFH1003	2QFH1033	25
16"	700	1300	28	48°	2QFH1004	2QFH1034	25

## Cotswold - Sinindex

### Standard - Top Hung

Sold in pairs

Size	Max Sash Width (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	17mm Stack	Box Qty
8"	1200	300	10	62°	2COT1501	2COT1551	50
10"	1200	450	16	90°	2COT1502	2COT1552	50
12"	1200	600	21	86°	2COT1503	2COT1553	25
16"	1200	750	22	83°	2COT1504	2COT1554	25
20"	1200	900	24	42°	2COT1505	2COT1555	25
24"	1200	1500	50	38°	2COT1506	2COT1556	25



### Standard - Side Hung

Sold in pairs

Size	Max Sash Width (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	17mm Stack	Box Qty
12"	650	1250	20	60°	2COT1510	2COT1560	25
16"	700	1300	28	52°	2COT1511	2COT1561	25

# Friction Stays - Standard Securistyle

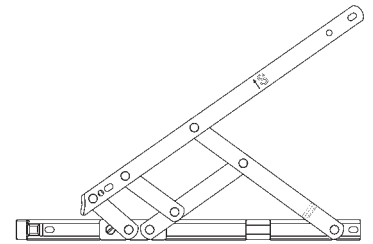
## Defender

### Standard - Top Hung

Sold in pairs

18mm track width

Size	Min Sash Height (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	16mm Stack	17mm Stack	Box Qty
8"	200	350	12	65°	2SEC0330	2SEC0163	2SEC0331	25
10"	275	400	16	80°	2SEC0011	2SEC0179	2SEC0171	25
12"	350	550	20	80°	2SEC0012	2SEC0164	2SEC0172	25
16"	500	780	21	80°	2SEC0013	2SEC0165	2SEC0173	25
20"	700	1100	26	50°	2SEC0014	2SEC0166	2SEC0174	25
24"	850	1300	40	37.5°	2SEC0015	2SEC0167	2SEC0175	25
24" HD	850	1500	50	27°	2SEC0321	#	2SEC0322	25



### Standard - Side Hung

Sold in pairs

18mm track width

Size	Min Sash Width (mm)	Max Sash Width (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	16mm Stack	17mm Stack	Box Qty
8"	200	400	18	65°	2SEC0330	2SEC0163	2SEC0331	25
12"	300	600	22	60°	2SEC0016	2SEC0168	2SEC0176	25
16"	400	700	24	60°	2SEC0017	2SEC0169	2SEC0177	25

### Slimline - Top Hung

Sold in pairs

15.5mm track width

Size	Min Sash Height (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	Box Qty
8"	200	350	12	65°	2SEC0051	25
10"	275	400	16	80°	2SEC0052	25
12"	350	550	20	80°	2SEC0053	25
16"	500	780	21	80°	2SEC0054	25
20"	700	1100	26	50°	2SEC0055	25
24"	850	1300	40	37.5°	2SEC0056	25
24" HD	850	1500	50	27°	#	25

### Slimline - Side Hung

Sold in pairs

15.5mm track width

Size	Min Sash Width (mm)	Max Sash Width (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	Box Qty
8"	200	400	18	65°	#	25
12"	300	600	22	60°	2SEC0057	25
16"	400	700	24	60°	2SEC0058	25

### Defender Plus Heavy Duty (Austenitic Stainless Steel) - Top Hung

Sold in pairs

Size	Min Sash Height (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	16mm Stack	17mm Stack	Box Qty
24"	850	1500	50	32°	2SEC0502	2SEC0504	2SEC0506	25

### Defender Plus Heavy Duty (Austenitic Stainless Steel) - Side Hung

Sold in pairs

Size	Min Sash Height (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	16mm Stack	17mm Stack	Box Qty
16"	400	1000	40	60°	2SEC0501	#	2SEC0505	25

It is the responsibility of the window manufacturer to ensure that the finished window meets any required safety and performance specifications.  
# This is not a stock item. We MAY be able to obtain it on a special order basis. Please ask.

# Friction Stay - Standard & Egress/Easy Clean Yale

## Yale Window Hinge

Sold in pairs  
BBA Approved (Cert:17/5404)  
10 Year Guarantee

### Standard - Top Hung

Size	Min Sash Height (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle +/-2.5°	13-14mm Cavity	16-18mm Cavity	Box Qty
8"	200	350	12	60°	2YFH0101	2YFH0131	25
10"	275	400	16	58°	2YFH0102	2YFH0132	25
12"	350	550	20	65°	2YFH0103	2YFH0133	25
16"	500	780	21	52°	2YFH0104	2YFH0134	25
20"	700	1000	24	42°	2YFH0105	2YFH0135	25
24"	850	1200	35	38°	2YFH0106	2YFH0136	25

### Standard - Side Hung

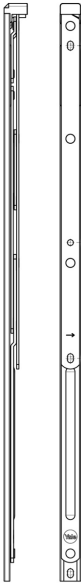
Size	Min Sash Width (mm)	Max Sash Width (mm)	Max Sash Weight Kg	Max Angle +/-2.5°	13-14mm Cavity	16-18mm Cavity	Box Qty
8"	200	400	18	60°	2YFH0101	2YFH0131	25
12"	300	600	22	65°	2YFH0107	2YFH0137	25
16"	400	700	24	60°	2YFH0108	2YFH0138	25

### Egress - Side Hung

Size	Min Sash Width (mm)	Max Sash Width (mm)	Max Sash Weight Kg	Max Angle +/-2.5°	13-14mm Cavity	16-17mm Cavity	17-18mm Cavity	Box Qty
12"	300	600	22	81°	2YFH0109	2YFH0139	2YFH0159	25
16"	400	700	24	84°	2YFH0110	2YFH0140	2YFH0160	25

### Egress/Easy Clean - Side Hung

Size	Min. Sash Width (mm)	Max. Sash Width (mm)	Max Sash Weight Kg	Max. Angle +/-2.5°	13-14mm Cavity	16-17mm Cavity	17-18mm Cavity	Box Qty
12"	300	600	22	81°	2YFH0111	2YFH0141	2YFH0161	25
16"	400	700	24	84°	2YFH0112	2YFH0142	2YFH0162	25



# Friction Stay - Restricted Security

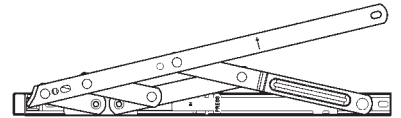
## Defender

### Restricted - Top Hung

Sold in pairs

18mm track width

Ferritic stainless steel (BS EN10088-2 Grade 1.4016 - was Grade 430)\*



Size	Min Sash Height (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle	Restricted Angle	13mm Stack	16mm Stack	17mm Stack	Box Qty
12"	350	550	20	65°	14°	2SEC0120	2SEC0250	2SEC0232	25
16"	500	780	21	59°	10°	2SEC0018	2SEC0243	2SEC0233	25
20"	700	1100	26	50°	7°	2SEC0019	2SEC0244	2SEC0234	25
24"	850	1300	40	37.5°	6°	2SEC0020	2SEC0266	2SEC0235	25

### Restricted - Side Hung

Sold in pairs consisting of 1 x restricted stay and 1 x opposite hand non-restricted stay

18mm track width

Ferritic stainless steel (BS EN10088-2 Grade 1.4016 - was Grade 430)\*

Size	Min Sash Width (mm)	Max Sash Width (mm)	Max Sash Weight Kg	Max Angle	Restricted Angle	13mm Stack LH	13mm Stack RH	Box Qty
12"	300	600	22	58°	13°	2SEC0383	2SEC0384	50
16"	400	700	24	58°	11°	2SEC0385	2SEC0386	50

Size	Min Sash Width (mm)	Max Sash Width (mm)	Max Sash Weight Kg	Max Angle	Restricted Angle	16mm Stack LH	16mm Stack RH	17mm Stack LH	17mm Stack RH	Box Qty
12"	300	600	22	58°	13°	TBA	TBA	2SEC0391	2SEC0392	50
16"	400	700	24	58°	11°	TBA	TBA	2SEC0393	2SEC0394	50

\*Available in Grade 1.4301 (was Grade 304) Austenitic Stainless Steel

It is the responsibility of the window manufacturer to ensure that the finished window meets any required safety and performance specifications.

# Friction Stays

## Egress / Easy Clean & Egress Only

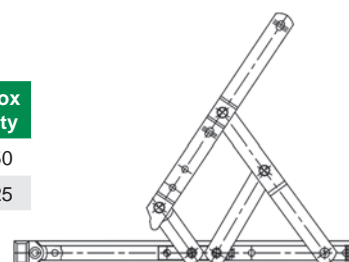
### greenteQ - Delta

#### Egress / Easy Clean - Side Hung

Sold in pairs

Nylon end caps

Size	Max Sash Width (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	17mm Stack	Box Qty
12"	600	1200	18	85°	2QFH1011	2QFH1041	50
16"	600	1200	21	85°	2QFH1012	2QFH1042	25



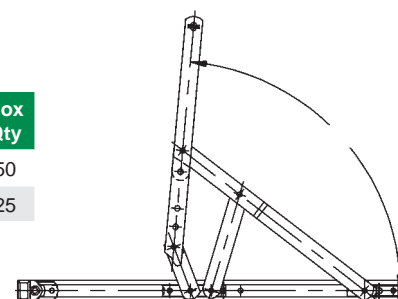
### Cotswold

#### Egress Only - Side Hung

Sold in pairs

Nylon end caps

Size	Max Sash Width (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	17mm Stack	Box Qty
10"	500	1200	18	80°	2COT1518	2COT1519	50
16"	600	1200	21	84°	2COT1018	2COT1525	25



#### EZ Egress / Easy Clean - Side Hung

Sold in pairs

Nylon end caps

Size	Max Sash Width (mm)	Max Sash Height (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	17mm Stack	Box Qty
12"	600	1200	18	85°	2COT1526	2COT1527	50
16"	650	1200	21	89°	2COT1522	2COT1523	25
12" Add.Grub Screw	600	1200	18	85°	2COT1536	2COT1537	50
16" Add.Grub Screw	650	1200	21	89°	2COT1532	2COT1533	25

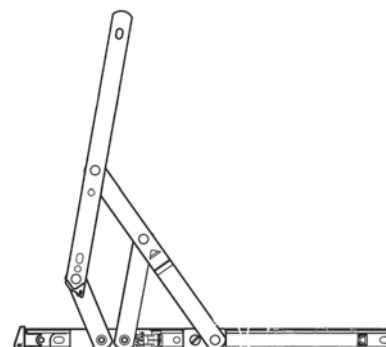


### Securistyle

#### Enhanced Egress / Easy Clean - Side Hung

Sold in pairs

Size	Min Sash Width (mm)	Max Sash Width (mm)	Max Sash Weight Kg	Max Angle	13mm Stack	16mm Stack	17mm Stack	Box Qty
12"	300	600	22	80°	2SEC0367	2SEC0369	2SEC0370	25
16"	400	700	24	90°	2SEC0371	2SEC0373	2SEC0374	25





# Friction Stay Security Devices

Friction stay security devices provide excellent resistance to forced entry. With one half fitted in the friction stay groove on the sash and another fitted opposite on the frame (in both hinged corners), the components inter-lock if jemmying of the hinge side of a window is attempted. In normal use the 2 halves do not come into contact with each other so wear and tear is not an issue.

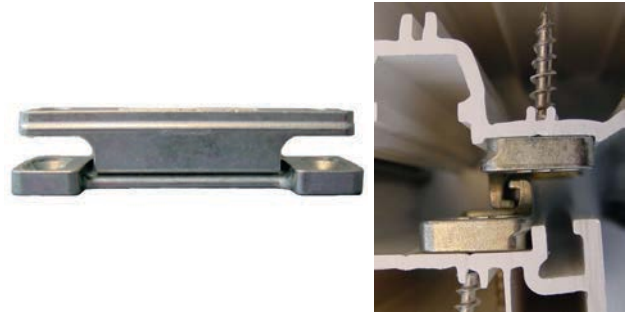
It is recommended that friction stay security devices should be fitted to any window that is to be tested to PAS024:2012, unless security friction stays have been fitted.

## greenteQ - Delta Hinge Protector



Size	VBH Code	Box Qty
13mm Stack (Each)	2QFH0061	100
17mm Stack (Each)	2QFH0062	100

## Maco Casement Hinge Protector



A Universal Protector should be fitted to the sash if the profile design calls for fitting in the eurogroove. Either a standard or egress version should be fitted to the frame.

## Securistyle Vector Excluder Ancillary Security Device

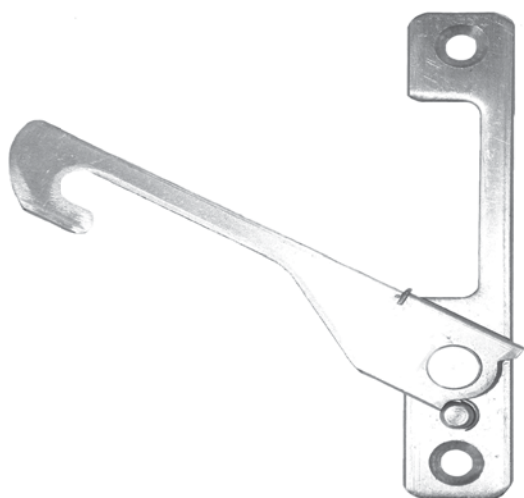


Description	13mm Stack	17mm Stack	Box Qty
Vector Excluder (Set of 4)	2SEC0270	2SEC0271	50 sets

Description	13mm Stack	17mm Stack	Box Qty
Standard (Each)	2WES0262	2WES0263	200
Egress (Each)	2WES0264	2WES0265	200
Universal (Each)	2WES0520	2WES0521	200

# Window Restrictors

## VBH - Auto-Latch Casement Restrictor



Stainless steel  
Concealed casement restrictor

Description	VBH Code	Box Qty
LH	2ACC0031	50
RH	2ACC0032	50

Restrictor shown is LH

## Maco - 8213 Casement Restrictor

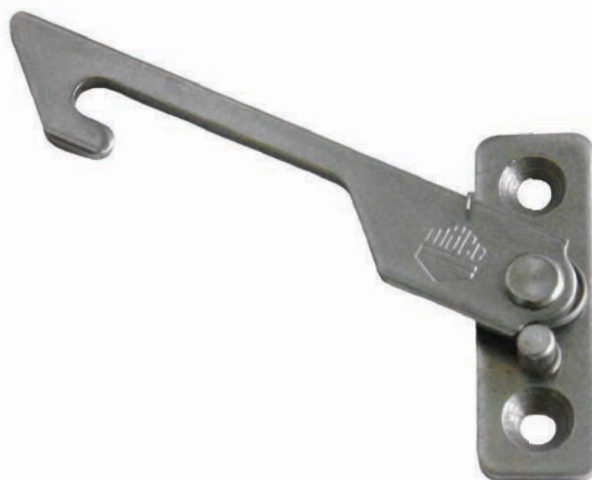


Stainless steel  
Concealed casement restrictor

Description	VBH Code	Box Qty
LH	2ACC0050	50
RH	2ACC0051	50

Restrictor shown is LH

## Maco - Auto-Latch Restrictor

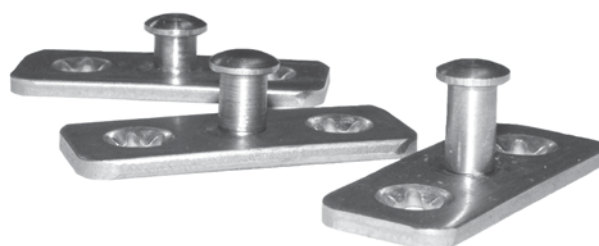


Stainless steel  
Concealed casement restrictor

Description	VBH Code	Box Qty
LH	2ACC0021	50
RH	2ACC0022	50

Restrictor shown is LH

## Striker Post to suit Auto-Latch and 8213 Stainless Steel Casement Restrictors



Stainless steel

Description	VBH Code	Box Qty
9.5mm	2ACC0003	50
10.5mm	2ACC0004	50
11.5mm	2ACC0005	50
14.5mm	2ACC0006	50

## Window Restrictors

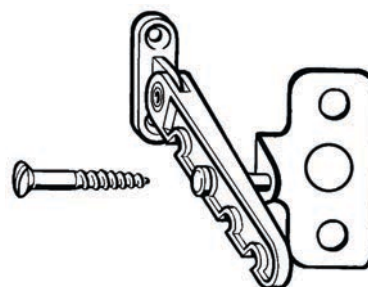
### Maco - Multi-Vent



Restricts tilt and turn positions. Sash upstand must have 15° angle or less  
Lockable via 2.5mm Allen key supplied

Description	VBH Code	Box Qty
Multi-Vent White	5MAC1135	20
Multi-Vent Brown	5MAC1136	20
5° Packer White	5MAC0361	100
5° Packer Brown	5MAC0362	100
15° Packer White	5MAC0364	100
15° Packer Brown	5MAC0363	100

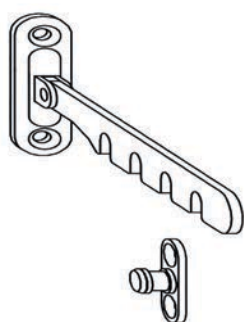
### Roto - Tilt Restrictor



Restricts tilt angle of sash with 4 positions  
Version with handle plate is best option for chamfered profiles  
Coloured plastic construction

Description	VBH Code	Box Qty
Tilt Restrictor White c/w Handle Plate	5ROT0086	20
Tilt Restrictor White	5ROT0092	20
Tilt Restrictor Brown	5ROT0136	20

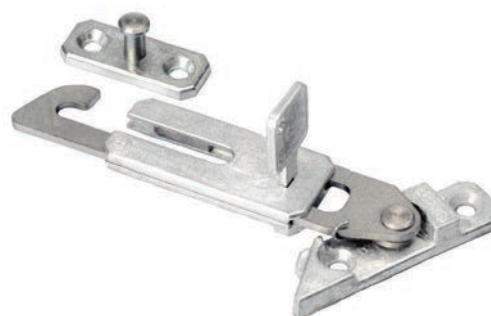
### Siegenia - Tilt Restrictor (Cockspur Fastener)



Restricts tilt angle of sash with 4 positions  
Powder-coated steel construction

Description	VBH Code	Box Qty
Tilt Restrictor White	5SIE0953	100
Tilt Restrictor Brown	5SIE0954	100

### Res-Lok - Casement Restrictor



Stainless steel  
Key locking  
Concealed casement restrictor

Restrictor	VBH Code	Box Qty
LH 105mm Arm	2B A0111	50
RH 105mm Arm	2B A0112	50
Striker Post	VBH Code	Box Qty
11.5mm	2B A0125	50
12.5mm	2B A0126	50
13.5mm	2B A0127	50
14.5mm	2B A0128	50

# Window Restrictors

## Fenster Window Safety Restrictor



200mm cable as standard (Any length available to special order)  
Child-safe locking system  
White and Black as standard (other RAL colours available to special order)  
Suits PVCu, aluminium and timber windows

Description	White	Black	Box Qty
Safety Restrictor	2FEN0001	2FEN0002	50

## Securistyle - SDR Restrictor Stay



Stainless steel  
Concealed detachable restrictor stay  
18mm track width  
16-18mm Stack

Description	VBH Code	Box Qty
SDR 4"	2SEC0325	50
SDR 6"	2SEC0326	50
SDR 8"	2SEC0327	50
SDR 10"	2SEC0328	50
Key	2SEC0329	50

## Securistyle - SD Restrictor

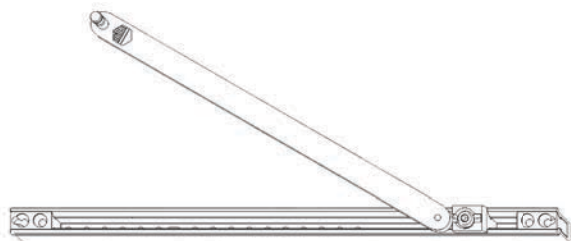


Stainless steel  
Concealed restrictor stay  
18mm track width  
16-18mm Stack

Description	VBH Code	Box Qty
102mm (4")	2SEC0077	50
152mm (6")	2SEC0078	50
228mm (9")	2SEC0079	50

# Window Restrictors

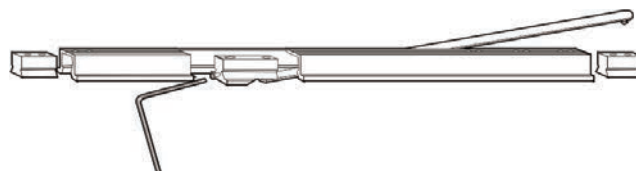
## Maco Brake Stay



Restricts opening angle of turn windows  
Friction adjustable

Description	VBH Code	Box Qty
Brake Stay 240mm	5MAC6654	20
Brake Stay 333mm	5MAC6655	20
Accessory Set (Frame Part)	5MAC6656	20

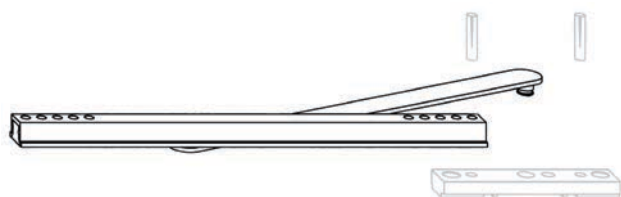
## Roto Brake Stay



Restricts opening angle of turn windows  
Friction adjustable

Description	VBH Code	Box Qty
Brake Stay 191mm	5ROT2182	100
Brake Stay 335mm	5ROT2183	100
Frame Plate	5ROT2184	100

## Siegenia Brake Stay



Restricts opening angle of turn windows  
Friction adjustable

Description	VBH Code	Box Qty
Brake Stay 280mm	5SIE6375	25
Brake Stay 360mm	5SIE6374	25
Frame Plate	5SIE6376	25



## Tilt & Turn

### Eurogroove or Clamp Tilt & Turn Systems

VBH stocks a large selection of TBT tilt and turn (tilt before turn) systems from the three main manufacturers; i.e. Maco, Roto and Siegenia.

All three brands offer solutions for Eurogroove PVCu, timber and aluminium systems, whilst Roto and Siegenia also offer clamp systems for aluminium profiles without a Eurogroove.

We offer the option of surface fit or concealed hinges, and basic or security level locking points.

At present we offer the following solutions. Please contact us for further details of the systems offered by your preferred manufacturer or send us your enquiry/order using the form opposite.

#### Eurogroove Systems

Manufacturer	System Name	Hinge Type	Security Level
Maco	Multi-Matic	Surface Fit	Both
Maco	Multi-Matic Invisible	Concealed	Both
Maco	Trend	Surface Fit	Both
Maco	Trend Invisible	Concealed	Both
Roto	Designo	Concealed	Both
Roto	Designo II	Concealed	Both
Roto	NT 'A'	Surface Fit	Both
Roto	NT 'K'	Surface Fit	Both
Roto	NT 'R' (Royal)	Concealed	Both
Siegenia	Si-Line S-ES	Surface Fit	Both
Siegenia	Axxent V V	Concealed	Both

#### Clamp Systems

Manufacturer	System Name	Hinge Type	Security Level
Roto	AluVision T540	Surface Fit	Both
Roto	Avdes	Concealed	Both
Siegenia	Alu 4200	Surface Fit	Both
Siegenia	Alu Axxent	Concealed	Both



Attn VBH:

Please supply/quote for \* TBT hardware to suit the below specification

\*Delete as appropriate



## Tilt & Turn Hardware Set

Hardware Manufacturer	Maco		Roto		Siegenia	
Hardware System						
Hinge Type	Surface Fit		Concealed			
Security Level Required	Standard		Security			
Your Profile System (Include profile numbers if known)	Name		Sash No.		Frame No.	
Cover Cap Colour* (If applicable)	White		Brown			
Sash Rebate Width*						
Sash Rebate Height*						
Handing (viewed from inside)*	Left		Right			
Do You Require a Handle?						
Yes (insert Item Code)**				No		

**\*If you are ordering more than one set please indicate any additional window specifications in the box below** (including sizes, handing, colour & handle option):

\*\*If you require a handle please select from the options on pages 124 - 127 and indicate relevant item code in box

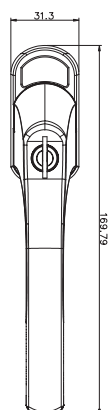
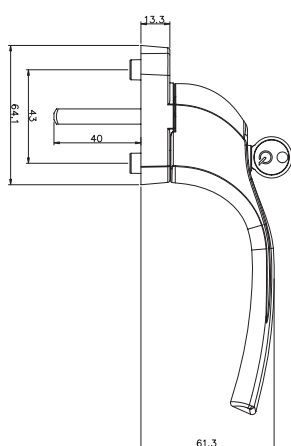
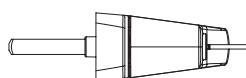
Company Name		Acc Number	
Contact Name		Order No	
Email Address		Fax No	
Sign		Date:	

Fax to:	Gillingham	01634 263504		East Kilbride:	01355 571771		
	Birmingham	01675 466300		Swansea	01792 701385		



# Tilt & Turn Handles greenteQ

## Alpha TBT - Locking



40mm spindle length  
Part of the greenteQ suite  
TBT function for child safety  
Locates in 4 positions at 90° intervals  
Supplied with cover caps, fixings and key

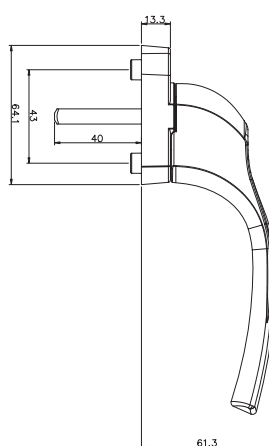
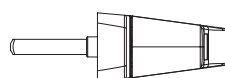
Finish	VBH Code	Box Qty
White	2QTT0061	10/60
Black	2QTT0066	10/60
PVD Gold	2QTT0062	10/60
Polished Chrome	2QTT0063	10/60
Satin Chrome	2QTT0065	10/60
Anthracite Grey	2QTT0067	10/60
Smokey Chrome	2QTT0068	10/60
Enduro Steel	2QTT0069	10/60

## Accessories

Description	White	Black	Green	Box Qty
Cover Cap	2QTT0101	2QTT0102	2QTT0103	1
Description			VBH Code	Box Qty
Spare Key			2QTT0106	1

greenteQ

## Alpha TBT - Non-Locking



40mm spindle length  
Non-locking handle for basic tilt and turn windows  
Part of the greenteQ suite  
Locates in 4 positions at 90° intervals  
Supplied with cover caps and fixings

Finish	VBH Code	Box Qty
White	2QTT0261	10/60
Black	2QTT0266	10/60
PVD Gold	2QTT0262	10/60
Polished Chrome	2QTT0263	10/60
Satin Chrome	2QTT0265	10/60
Anthracite Grey	2QTT0267	10/60
Smokey Chrome	2QTT0268	10/60
Enduro Steel	2QTT0269	10/60

# Tilt & Turn Handles

## Hoppe

### Atlanta - Locking

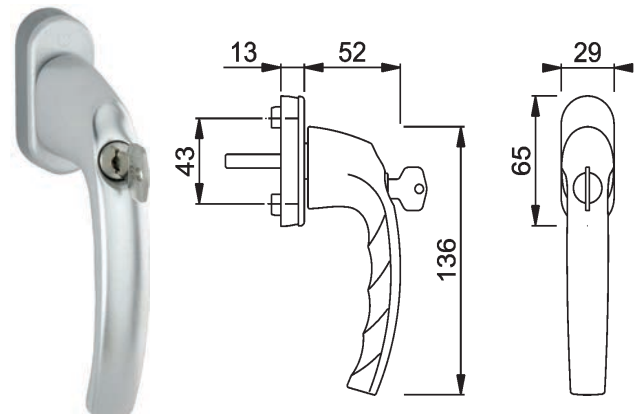
Key locking handle allows free movement to 90° tilt position

Locates in 4 positions at 90° intervals

Turn position accessible only when key is turned

If lever is rotated through 180° prior to fitting, handle reverts to normal locking function (locked in closed position)

Spindle Size	White	Gold F3	Silver F1	Brassed	Box Qty
32mm	2HOP0683	2HOP0681	2HOP0680	2HOP0686	40
38mm	2HOP0663	2HOP0661	2HOP0660	2HOP0666	40
Spindle Size	Polished Gold		Black	Polished Chrome	Box Qty
32mm	2HOP0684		2HOP0682	2HOP0685	40
38mm	2HOP0664		2HOP0662	2HOP0665	40
44mm	#		2HOP0656	#	40



### Accessories

Description	VBH Code	Box Qty
Spare Key	2HOP0434	1

### Tokyo - Locking

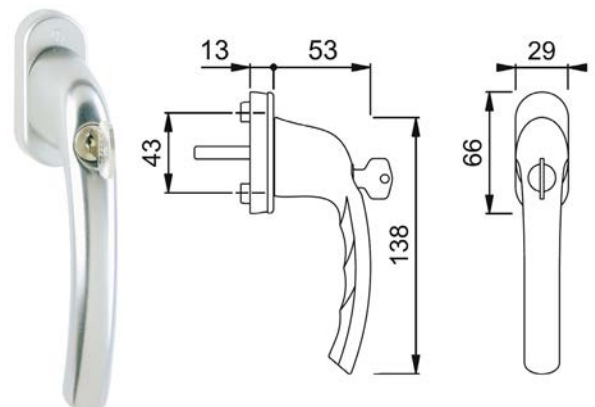
Key locking handle allows free movement to 90° tilt position

Locates in 4 positions at 90° intervals

Turn position accessible only when key is turned

If lever is rotated through 180° prior to fitting, handle reverts to normal locking function (locked in closed position)

Spindle Size	White	Gold F3	Silver F1	Brassed	Polished Chrome	Box Qty
32mm	2HOP0852	2HOP0851	2HOP0850	2HOP0859	2HOP0860	40
38mm	2HOP0855	2HOP0854	2HOP0853	#	#	40
44mm	2HOP0858	2HOP0857	2HOP0856	#	#	40



### Accessories

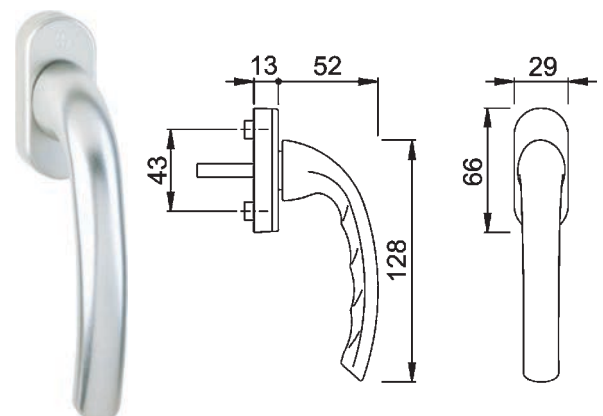
Description	VBH Code	Box Qty
Spare Key	2HOP0434	1

### Tokyo - Non-Locking

Non locking handle for basic tilt and turn windows

Locates in 4 positions at 90° intervals

Spindle Size	White	Gold F3	Silver F1	Box Qty
32mm	2HOP0826	2HOP0825	2HOP0824	100
38mm	2HOP0829	2HOP0828	#	100
44mm	2HOP0822	2HOP0821	2HOP0820	100



All locking handles supplied with key

# This is not a stock item. MAY be able to obtain it on a special order basis. Please ask.

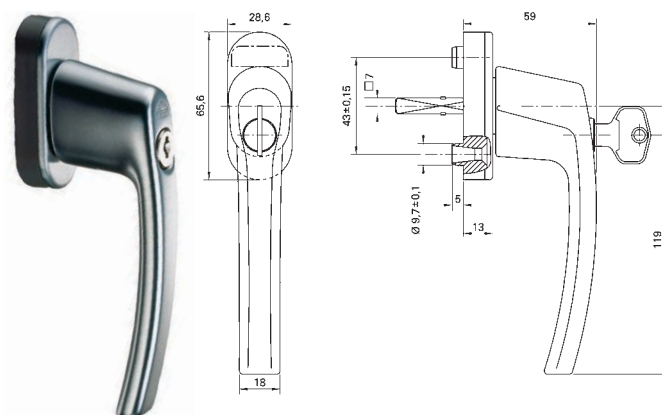
# Tilt & Turn Handles

## Roto

### Rotoline - Locking with TBT Function

Key locking handle allows free movement to 90° tilt position  
Turn position accessible only when key is turned

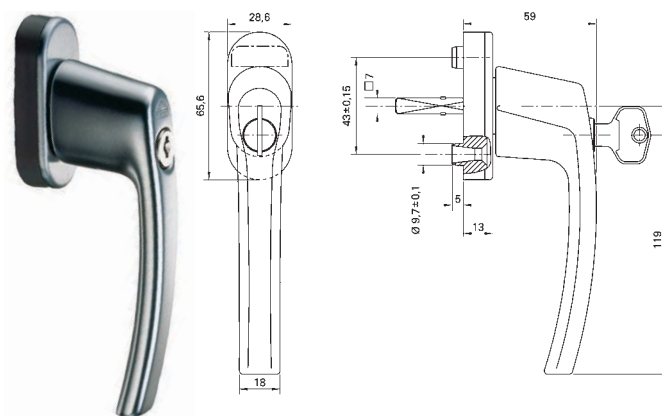
Spindle Size	White	Gold F3	Silver F1	Box Qty
32mm	5ROT5079	5ROT5077	5ROT5075	20



### Rotoline - True Locking

Locks in vertical positions only  
Handle is either fully locked or unlocked (no TBT function)

Spindle Size	White	Satin Chrome	Box Qty
32mm	5ROT5064	5ROT5068	10
35mm	5ROT5065	-	10



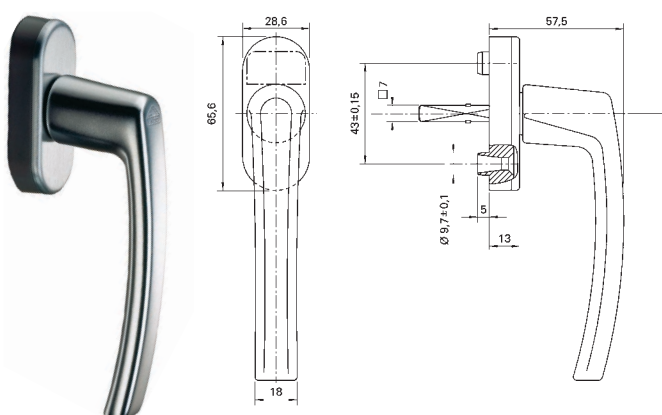
### Spares

Description	VBH Code	Box Qty
Spare Key for TBT Handle (5ROT507*)	5ROT5089	1
Spare Key for Locking Handle (5ROT506*)	5ROT5090	1

### Rotoline - Non-Locking

Non locking handle for basic tilt and turn windows  
Locates in 4 positions at 90° intervals.

Spindle Size	White	Gold F3	Silver F1	Box Qty
30mm	#	#	5ROT5073	20
35mm	5ROT5064	5ROT5063	#	20
38mm	#	5ROT5063	#	20



All locking handles supplied with key  
# This is not a stock item. MAY be able to obtain it on a special order basis. Please ask.

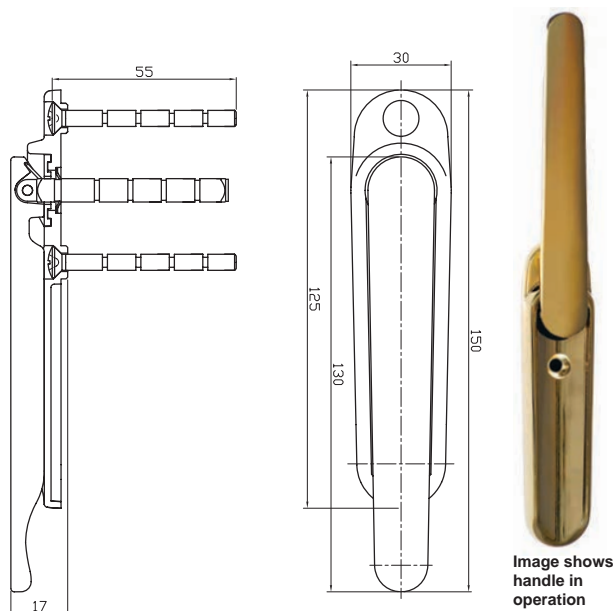
# Slim Turn Handles

## greenteQ

### Clearline Slim Non-Locking Turn Handles

Ideal for inward opening windows, stable doors and bi-fold doors  
 Slimline handle with 'Lift & Turn' technology  
 Option with cylinder hole (PZ) also available for bi-fold doors  
 (see page 80)

Finish	VBH Code	Box Qty
White	4QBF0001	40
Black	4QBF0002	40
PVD Gold	4QBF0003	40
Pol. Chrome	4QBF0004	40
Satin Chrome	4QBF0005	40



# Fanlight Opening Gear Strand

## Highline Manual Gearing

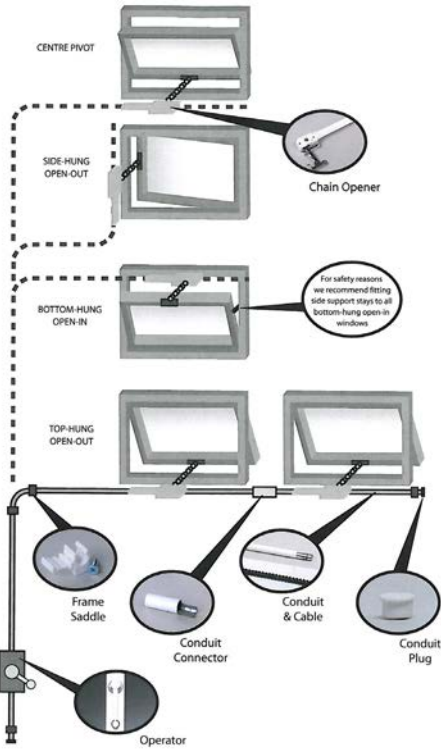
Highline is an effective solution to the problem of operating high level windows, including those commonly found in public buildings such as school gymnasiums, libraries, hospitals etc.

The system works by turning a winding handle which is linked by a steel helical cable to one or more chain openers fitted to the high level windows. The chain opens and closes the sash when the winder is turned.

Standard Highline can be used on many window styles including outward opening casements, bottom hung open in, and pivot windows.

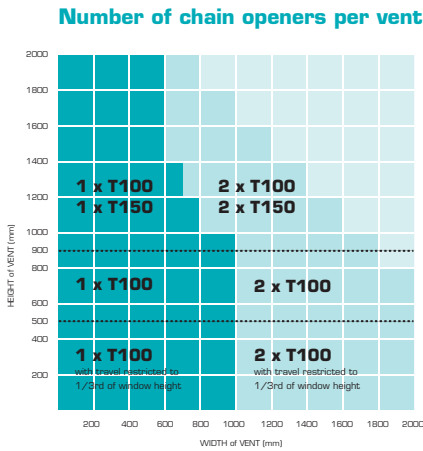
White is available from stock. Highline can also be supplied in black or grey to special order.

Description	VBH Code	Box Qty
T100 Chain Opener 250mm White	4SQL0201	Each
T150 Chain Opener 380mm White	4SQL0202	Each
T750 Bracket for PVCu Casement Windows White	4SQL0204	Each
T850 Bottom Hung Fixing Kit White	4SQL0206	Each
T250 Midi Operator White	4SQL0210	Each
T220 Major Operator White	4SQL0209	Each
T210 Maxi Operator White	4SQL0207	Each
T400 Conduit 3000mm White	4SQL0213	Each
T450 Inner Cable (Sold Per Metre)	4SQL0214	Cont.Cab
T800 Conduit Connector White	4SQL0215	10
T600 Conduit Frame Saddle White	4SQL0217	10
T700 Spring Stop	4SQL0218	Each
T420 Conduit End Plug White	4SQL0221	10
Recommended Tools		
T950 90° Bend Former	4SQL0222	Each
T900 Combination Tool (Strips back covering and scores groove)	4SQL0223	Each



Sashes can be hung on fixed pivot hinges or friction stays. If friction stays are used, it is important to completely remove all friction.

Use the guides below to select the correct items for your application.



**MANUAL TECHNICAL DATA**

Minimum window height for full 250mm travel of T100 = 500mm

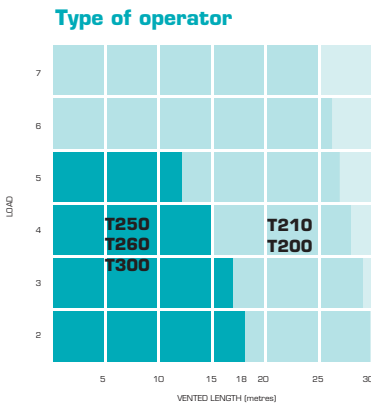
Minimum window height for full 380mm travel of T150 = 900mm

Travel on chain openers fitted to a window less than recommended must be restricted to 30% of the vent height using the T700 spring stops or T720 square nuts to shorten the cable run.

Use only T200, T210, T260 or T300 with the T150 (380mm) chain opener

For safety reasons we recommend fitting side support stays to all bottom-hung, open-in windows.

For bottom-hung applications you must fit the T850 fixing kit (sold separately)



LOAD = number of chain openers + number of bends in conduit

The figures in the chart are based on a single bend in the conduit path. For each additional bend deduct one metre from the VENTED LENGTH total

The figures used in these charts are based on windows with 4mm double glazed units fitted to butt hinges or free pivots, not friction stays.

Please refer to our technical department for advice if friction stays are fitted

**MAXIMUM CONTROL RUN**

Operator:

T200 - 30 metres

T210 - 30 metres

T250/T260 - 18 metres

T300 - 18 metres

The above figures are based on a single bend in the conduit path. Deduct 1 metre from the total vented length for each additional bend.

**Load = Number of operators + Number of 90° bends**

Electric fanlight gear is available to special order. Please ask.

# Folding Openers

## Pace

### Folding Openers

Folding openers (or cam stays) are a convenient way to operate and lock windows, using a surface fit mechanism. They are best suited to top hung outward opening windows but can also be fitted to bottom hung, fully reversible and pivot windows in PVCu, timber, aluminium or steel. They can be linked together for wider windows.

We offer two main types of folding opener as detailed below.

#### Style 110

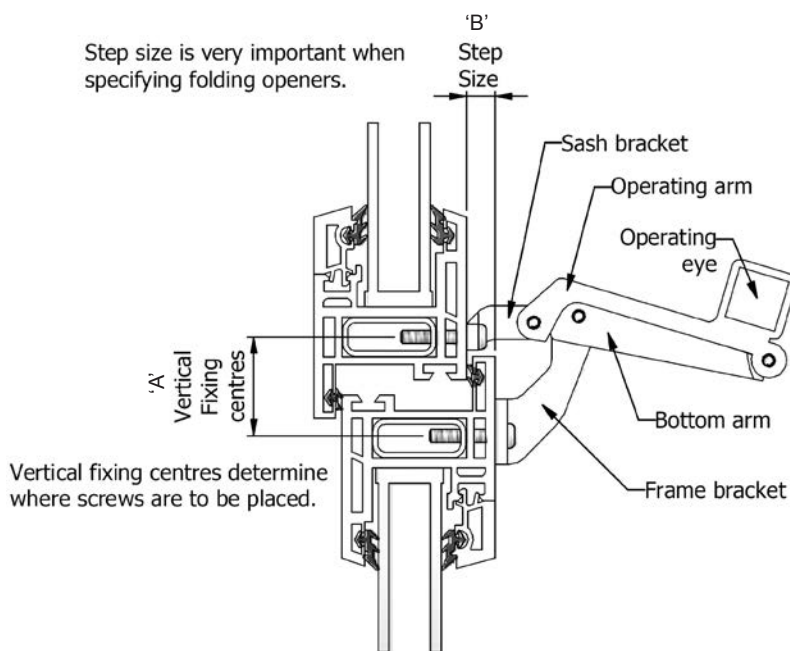
This allows the operating eye to remain inside the building when the window is fully open, making it ideal for use on high level windows where pole operation is required. It is not recommended for hand operation as the geometry of these openers means that there is a risk of fingers becoming trapped. Types 111, 131 and 191 also fall under the header 'Style 110'

#### Style 112

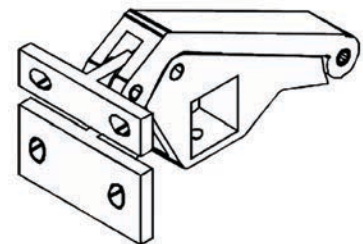
The action of Style 112 openers ensures that the operating eye or tandem bar does not interfere with internal sills. The position of the operating eye gives an extended arc of operation making it ideal for hand operation on low level windows. Types 113, 130 and 190 also fall under the header 'Style 112'. It is not suitable for pole operation.

Other versions, including those with fixings in different planes for timber windows are available to special order. Please ask.

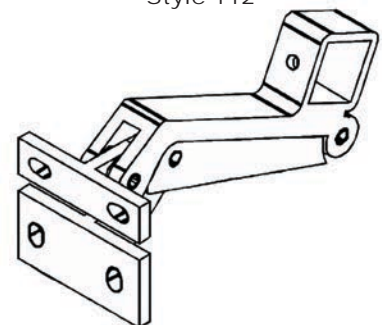
When ordering folding openers you should take into account the application (high or low level), the step size (dimension 'B') and the vertical fixing centres (dimension 'A')



Style 110



Style 112



Style	Type	Dim A	Dim B	VBH Code	Box Qty
110	111	25	16	2CAL0108	Each
110	131	38	16	2CAL0018	Each
110	191	48	16	2CAL0054	Each
112	112	25	16	2CAL0076	Each
112	130	38	16	2CAL0015	Each
112	190	48	16	2CAL0053	Each



# Folding Openers

## Pace

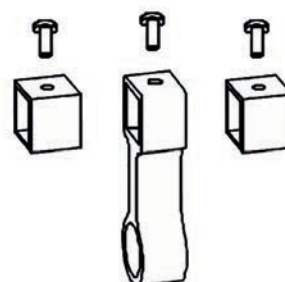
### Folding Openers

#### Tandem Eye Kit

Tandem eye kits are fitted centrally to the tandem bar to allow high level windows to be pole operated

They are supplied complete with the end caps and screws

Description	VBH Code	Box Qty
260 Tandem Eye (for 110)	2CAL0021	Each
263 Tandem Eye (for 110)	2CAL0024	Each
262 Tandem Eye (for 112)	2CAL0023	Each



#### Packers

These packers are fitted to either frame or sash fixing point to obtain the correct step size (dimension 'B')

For example if your profile has a step of 18mm, use a 16mm step opener with a 2mm packer on the frame

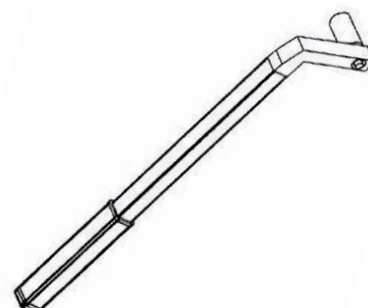
If your step size is 14mm use the same opener but fit the packer to the sash

Description	VBH Code	Box Qty
2mm Packer Mill Finish	2CAL0016	100
3mm Packer SAA	2CAL0026	Each
5mm Packer Nylon	2CAL0025	Each

#### Pole Operator

Pole operators are needed to operate high level windows. Choose either small or large boss depending on Tandem Eye Kit used

Description	VBH Code	Box Qty
1400mm Pole Operator for 260/263 (small boss)	2CAL0043	Each
2000mm Pole Operator for 260/263 (small boss)	2CAL0020	Each
1400mm Pole Operator for 262 (large boss)	2CAL0041	Each
2000mm Pole Operator for 262 (large boss)	2CAL0057	Each



#### End Caps, Screws and Sleeves

End caps and fixing screws are supplied within the Tandem Eye Kit. However, if no tandem eye is being used, order them separately using the codes below.

A sleeve and an additional screw are required per operator if a 3rd or 4th operator is fitted to a link bar.

Description	VBH Code	Box Qty
Tandem Bar End Cap Black	2CAL0040	Each
Self Tapping Assembly Screw	2CAL0028	Each
Tandem Sleeve (1 per Tandem Eye)	2CAL0072	Each

Openers should be positioned between 100-200mm from sash corner.

All folding openers and aluminium accessories are finished in silver anodised finish unless stated otherwise. Other finishes, including painted RAL colours may be available to special order. Please ask.





# Folding Openers

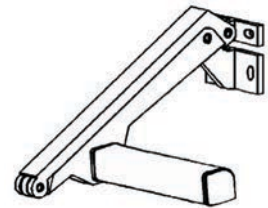
## Pace

### Folding Openers

#### Extended Operating Handle

If openers are to be operated individually, and by hand, it is recommended that the manual operating handle is used to prevent trapping of fingers

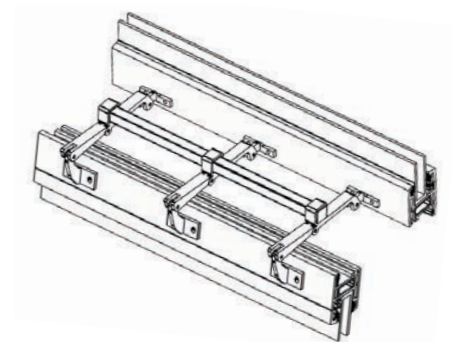
Description	VBH Code	Box Qty
PE164 Extended Operating Handle	2CAL0007	Each



#### Tandem Bar

Tandem bars are used to link together two or more openers to allow wider windows to be operated. The manufacturer's guideline for tandem bars is shown below:

Sash Size (mm)	Recommendation
< 400	1 Opener
401 - 900	2 Linked Openers
901 - 1800	3 Linked Openers
1801 - 2700	4 Linked Openers
> 2700	Refer to VBH Technical



Description	Length	VBH Code	Box Qty
Tandem Bar	215mm	2CAL0081	Each
Tandem Bar	315mm	2CAL0082	Each
Tandem Bar	415mm	2CAL0059	Each
Tandem Bar	515mm	2CAL0083	Each
Tandem Bar	615mm	2CAL0060	Each
Tandem Bar	715mm	2CAL0084	Each
Tandem Bar	815mm	2CAL0061	Each
Tandem Bar	915mm	2CAL0085	Each
Tandem Bar	1015mm	2CAL0062	Each
Tandem Bar	1215mm	2CAL0063	Each
Tandem Bar	1515mm	2CAL0064	Each
Tandem Bar	3000mm	2CAL0039	Each

Openers should be positioned between 100-200mm from sash corner

# Folding Openers Strand

## Duoflex

British-made to contemporary design

3 options for flush, recessed and stepped window types

Easily adjustable on site with no need for packers

Suitable for sashes up to 600mm wide with single opener, 900mm (2 openers) and 1500mm (3 openers)

Tested to over 100,000 cycles

Opens window to approx. 150mm

Minimum sash height 250mm if hung on butt hinges or 400mm if using friction stays

Silver finish as standard

Satin stainless steel, polished brass plated, white and other RAL colours available to order



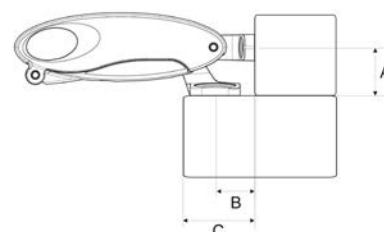
## Recessed

Dim A - 25mm

Dim B - 19mm

Dim C - minimum 38mm

Description	VBH Code	Box Qty
Duoflex Recessed Silver	4SQL1041	1

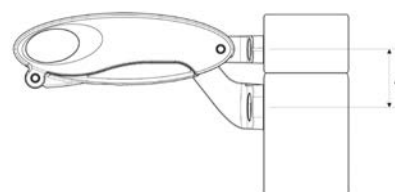


## Flush

Dim A - 25mm

Offset between sash and frame faces can be up to 10mm

Description	VBH Code	Box Qty
Duoflex Flush Silver	4SQL1042	1



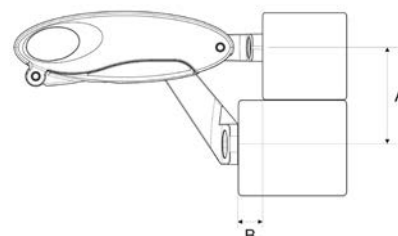
## Stepped

Dim A - 48mm

Dim B - 16mm

Offset between sash and frame faces can be up to 26mm

Description	VBH Code	Box Qty
Duoflex Recessed Silver	4SQL1043	1



## Link Bar

Note: Link bar should be between 2/3 - 3/4 sash width

Description	VBH Code	Box Qty
Duoflex Link Bar Silver 200mm	4SQL1061	1
Duoflex Link Bar Silver 400mm	4SQL1062	1
Duoflex Link Bar Silver 600mm	4SQL1063	1
Duoflex Link Bar Silver 800mm	4SQL1064	1
Duoflex Link Bar Silver 1000mm	4SQL1065	1
Duoflex Link Bar Silver 2000mm	4SQL1066	1



## Accessories

Description	VBH Code	Box Qty
Centre Ring Silver	4SQL1055	1
End Cap Each Silver	4SQL1056	1
Operating Pole 1.5m	4SQL1051	1
Operating Pole 2m	4SQL1052	1

Openers should be positioned between 100-200mm from sash corner



# DUOFLEX™

Designed to make life simple



SSSP



Polished Brass



White



Grey

- **Adjustable folding opener** - accommodates different steps without requiring packers
- Contemporary aesthetically pleasing design
- Suitable for top hung, open out windows
- 3 simple options: Stepped (PVCu) Recessed (Timber) Flush (Timber / Metal)
- Modular single, double or triple opener system
- Powdercoated and plated finishes available
- **Tested to over 100,000 cycles**

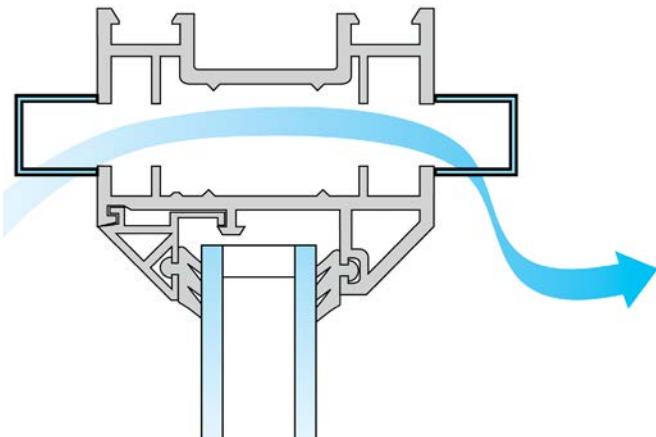
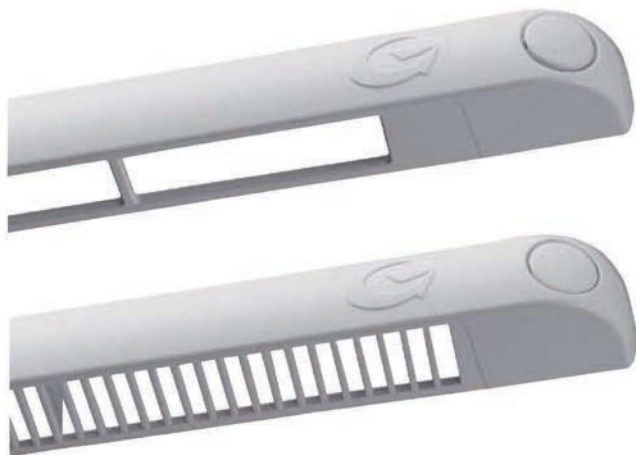


## StrandHardware Ltd

Suppliers of high quality window and door hardware

Tel: 01922 639111 Email: [info@strandhardware.co.uk](mailto:info@strandhardware.co.uk) Web: [www.strandhardware.co.uk](http://www.strandhardware.co.uk)

F vent



Slimline design has minimal visual impact when installed  
1250 and 2500mm<sup>2</sup> options comply with Building Regulations at time of printing  
10 or 12mm rout options  
Bottom operation is easily identifiable for occupant control  
Clip-fit option available (installation without screws)  
Available to special order in Tan, Brilliant White, or combinations of White inners and Tan or Brown outers

1250

Description	Colour	VBH Code	Box Qty
F Vent 1250	White	5GAV0145	50
F Vent 1250	Brown	5GAV0147	50

2500

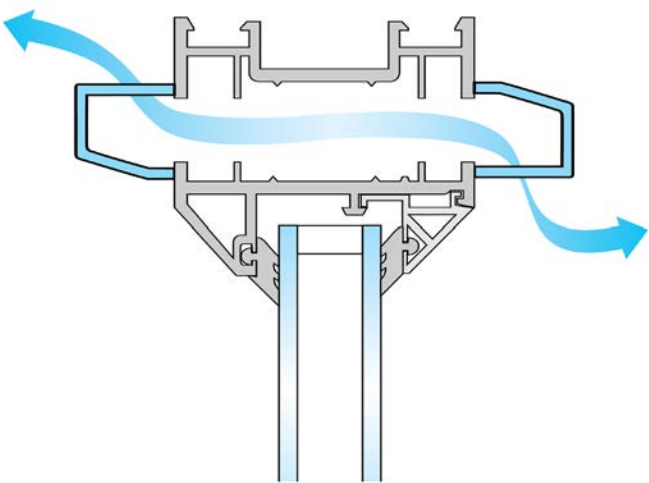
Description	Colour	VBH Code	Box Qty
F Vent 2500	White	5GAV0146	50
F Vent 2500	Brown	5GAV0148	50

Physical Specification

Vent Type	Slot Size		Vent Size (mm)	Equiv.Area (mm²)
1250F	192		238 x 16.5 x 21	1342
	10			1362
	12			
2500F	163.5	163.5	383 x 16.5 x 21	2583
	10	10		2634
	164.5	164.5		
	10	12		

Equivalent Area detailed in the physical specification table is tested in accordance with BS EN 13141-1 Airflow Rate Pressure tests.

GB Vent



GB Vent (Gas Board Vent) has been designed to meet the Building Regulations requirement for the permanent supply of combustion air and conforms to BS 5440 Part 2: 2000  
Supplied as a complete unit, the inner vent is inverted to provide upwards air deflection, whilst the hooded external unit prevents weather ingress

5000

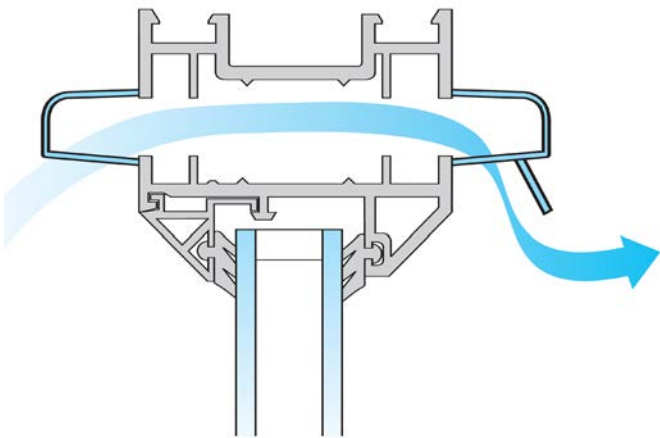
Description	Inner	Outer	VBH Code	Box Qty
GB Vent 5000 (Perm)	White	White	5GAV0042	50
GB Vent 5000 (Perm)	Brown	Brown	5GAV0104	50
GB Vent 5000 (Perm)	White	Brown	5GAV0110	50
GB Vent 5000 (Perm)	White	Tan	5GAV0111	50

Physical Specification

Vent Type	Slot Size		Vent Size (mm)	Equiv.Area (mm²)
5000GB	176	176	400 x 22 x 29	5000
	20	15		

Equivalent Area detailed in the physical specification table is tested in accordance with BS EN 13141-1 Airflow Rate Pressure tests.

L Vent



Supplied as a complete unit, L Vent is a slimline through frame slotvent that is ideal for use on slim profiles with limited slot heights  
The opening action is controlled by a bottom-mounted lever and the external canopy is supplied with an integral flyscreen  
The hooded design prevents weather ingress

2000

Description	Colour	VBH Code	Box Qty
L Vent 2000	White	5GAV0046	50
L Vent 2000	Brown	5GAV0048	50
L Vent 2000	Tan	5GAV0103	50

Physical Specification

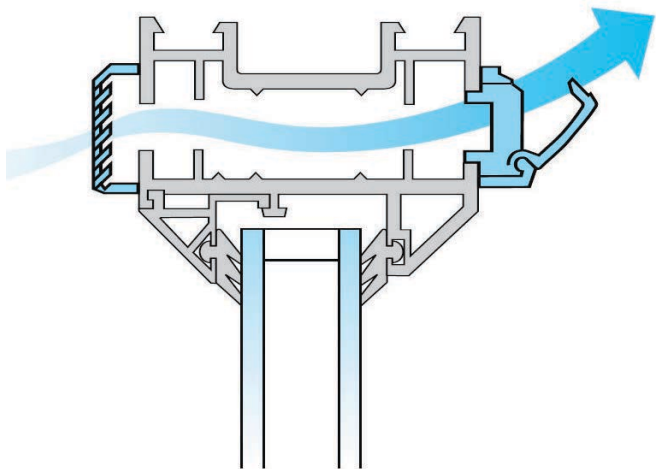
Vent Type	Slot Size		Vent Size (mm)	Equiv.Area (mm²)
2000L	203		263 x 15 x 18	1600
		10		
4000L	222	222	485 x 15 x 18	3200
	20	10		

4000

Description	Colour	VBH Code	Box Qty
L Vent 4000	White	5GAV0040	50
L Vent 4000	Brown	5GAV0079	50
L Vent 4000	Tan	5GAV0080	50

Equivalent Area detailed in the physical specification table is tested in accordance with BS EN 13141-1 Airflow Rate Pressure tests.

### HD Vent



HD Vent can be used as a through frame slotvent or in conjunction with Greenwood's Bar Carrier system to provide an over-glass solution

No protruding controls, minimising the risk of damage in transit when installed onto a window frame

Upwards air deflection ensures maximum user comfort

All vents listed here are finger control, but cord control is available to special order

#### 4000

Description	Colour	VBH Code	Box Qty
HD Front Control 4000	White	5GAV0098	50
HD Front Control 4000	Brown	5GAV0071	50

#### 8000

Description	Colour	VBH Code	Box Qty
HD Front Control 8000	White	5GAV0099	50
HD Front Control 8000	Brown	5GAV0107	50

#### Physical Specification

Vent Type	Slot Size		Vent Size (mm)	Equiv.Area (mm²)
4000 HDF	235		286 x 28.5 x 13	3200
8000 HDF	235	235	540 x 28.5 x 13	6400
	20	18		

Equivalent Area detailed in the physical specification table is tested in accordance with BS EN 13141-1 Airflow Rate Pressure tests.



# Ventilators Renson

## Tip Vent - 487



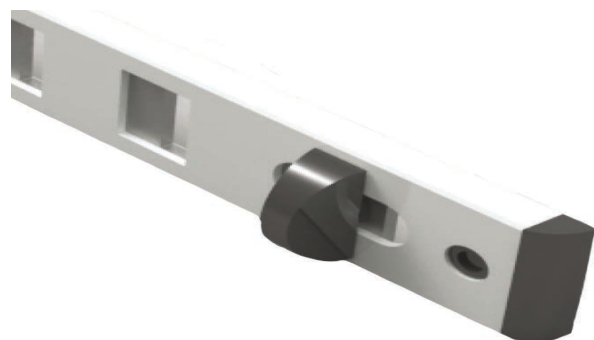
Description	Air Opening	VBH Code	Box Qty
275 x 23mm White	4000mm <sup>2</sup>	5REN0108	25
375 x 23mm White	5280mm <sup>2</sup>	5REN0109	25
475 x 23mm White	6880mm <sup>2</sup>	5REN0110	25
700 x 23mm White	10000mm <sup>2</sup>	5REN0111	25

## Canopy - 586



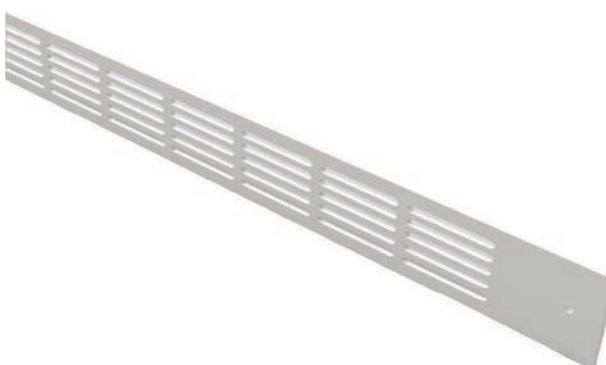
Description	Air Opening	VBH Code	Box Qty
275 x 28mm White	4000mm <sup>2</sup>	5REN0124	25
375 x 28mm White	5280mm <sup>2</sup>	5REN0125	25
475 x 28mm White	6880mm <sup>2</sup>	5REN0126	25
700 x 28mm White	10000mm <sup>2</sup>	5REN0127	25

## Hit & Miss Vent - 485



Size	Air Opening	White	Brown	Box Qty
275 x 22mm	1288mm <sup>2</sup>	5REN0092	5REN0096	25
375 x 22mm	2000mm <sup>2</sup>	5REN0093	5REN0097	25
475 x 22mm	2415mm <sup>2</sup>	5REN0094	5REN0098	25
700 x 22mm	4000mm <sup>2</sup>	5REN0095	5REN0099	25

## Patio Grille - 488

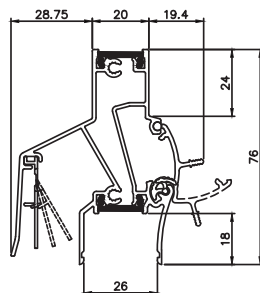


Size	Air Opening	White	Brown	Box Qty
275 x 30mm	2603mm <sup>2</sup>	5REN0116	5REN0120	25
375 x 30mm	4000mm <sup>2</sup>	5REN0117	5REN0121	25
475 x 30mm	5000mm <sup>2</sup>	5REN0118	5REN0122	25
700 x 30mm	7521mm <sup>2</sup>	5REN0119	5REN0123	25

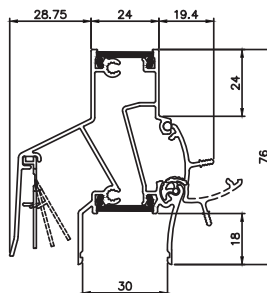
# Glazed-in Ventilators and Louvre Grilles Renson

## Glazed-in-Ventilator - AR60

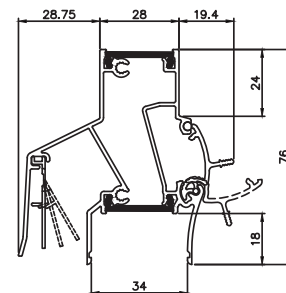
AR 60 / 20



AR 60 / 24



AR 60 / 28



Made to measure

Thermally broken, slimline glazed-in ventilator

Inner and outer can be finished in different colours

Suitable for all window materials

Only 60mm glass reduction

Perforated inner grille acts as insect mesh

Manual or rod control (6 stages)

Built-in upwards air deflection

Self-regulating flap ensures a constant airflow

20, 24 or 28 unit thickness

10427mm<sup>2</sup>/m Equivalent Area

Airflow at 2pa: 42.3m<sup>3</sup>/h/m

**When ordering your made to measure vents please advise:**

Vent type

Glass unit thickness (e.g. 20, 24 or 28mm)

Total length (including end caps)

Colour(s)

Which control option



## 414 Glazed-in-Louvre Grilles



Available in 24, 28 and 32mm unit thicknesses

Minimum size : 130 x 130mm

Finished in satin or bronze anodised or any RAL or Syntha Pulvin® colour

Supplied with 304 stainless steel insect screen (6 x 6mm mesh upon request)

**When ordering your made to measure vents please advise:**

Louvre type

Glass unit thickness (e.g. 24, 28 or 32mm) - type 414 only

Overall size

Colour(s)

Which control option

All Renson vents are available to special order. Please contact us with your requirements

## 411 Wall-Mounted Louvre Grilles



Depth: 28.5mm

Flange size : 21mm

Minimum size : 100 x 100mm

Finished in satin or bronze anodised or any RAL or Syntha Pulvin® colour

Supplied with 304 stainless steel insect screen (6 x 6mm mesh upon request)

# Adhesive, Sealants and Welder Sheet

## greenteQ 2-Part Adhesive 2C



The solvent and odour-free 2-part adhesive is ideal for bonding corner angles in many materials  
Easy to use as it has a long working time

Description	VBH Code	Box Qty
2C Twin Cartridge 550g White	2QTC0031	6
2C Twin Cartridge 550g Beige	2QTC0032	6
2C Twin Cartridge 900g White	2QTC0033	6
2C Twin Cartridge 900g Beige	2QTC0034	6
Static Mixing Tube	2QTC0035	75
Manual Applicator Gun	3COS0074	1

## greenteQ A-Acryl



A plasto-elastic dispersion acrylic sealant, A-Acryl can be painted over after curing. It is suitable for filling of stable gaps between window/door frames and walls, plaster and plasterboard  
Also fills cracks in concrete, stone, plaster and timber

Description	VBH Code	Box Qty
A-Acryl 310ml White	2QTC0011	25
A-Acryl 310ml Grey	2QTC0012	25

## greenteQ FA-Silicone Oxy



A neutral-cure elastic silicone particularly well suited to sealing around window frames and other movement joints  
It offers strong adhesion without primer to most substrates including PVCu, aluminium, steel, treated timber, brick, concrete and ceramics. It is resistant to extreme temperature fluctuations (-50°-+150°)

Description	VBH Code	Box Qty
FA-Silicone 310ml White	2QTC0001	25
FA-Silicone 310ml Grey	2QTC0003	25
FA-Silicone 310ml Brown	2QTC0005	25
FA-Silicone 310ml Black	2QTC0004	25
FA-Silicone 310ml Clear	2QTC0002	25

## Bisca-Weld 6 Holdfast Adhesive Sheet



For use on welding plates  
Sold per linear metre

Description	VBH Code	Box Qty
Bisca-Weld 6 Holdfast	3TLS0069	30m Roll

# Fixing Foam & Accessories

## greenteQ

### 1C Window Gun Foam B2



A 1-part polyurethane frame fixing foam providing a clean and controlled application  
Can be used for general filling of small apertures in walls and other cavities that are not subject to extremes of temperature. 1C foam adheres to all common building materials

Description	VBH Code	Box Qty
1C Window Gun Foam B2 750ml	2QTC0021	12

### 1C Winter Gun Foam B3



A 1-part moisture-hardening frame fixing foam providing a clean and controlled application. Can be used for general filling of small apertures in walls and other cavities in temperatures as low as -10°C  
1C foam adheres to all common building materials

Description	VBH Code	Box Qty
1C Winter Gun Foam B3 750ml	2QTC0022	12

### Metal Application Gun



Description	VBH Code	Box Qty
Metal Application Gun for Foam	2QTC0020	1

### Foam Cleaner



Description	VBH Code	Box Qty
Foam Gun Cleaner	2QTC0029	12

Cleaning and Care Service Sets



Weiss Cleaning & Care Service Sets are the perfect way for your customers to maintain their PVCu windows and doors

Available in two versions as detailed below, we can even supply them branded with your details, subject to minimum order quantities. Please enquire with VBH

Components:

- Cleansing Milk: Abrasive solvent-free cleaner for white PVCu windows and doors
- Gasket Care Sachet: Special solution-impregnated pads to sustain the pliability of gaskets, preventing sticking in summer and freezing in winter
- Fitting Oil: For the maintenance and lubrication of moving hardware components
- Cleaning Cloth

Basic Set contains 100ml Cleansing Milk, 3 Gasket Care Sachets, 30ml Fitting Oil and 1 Cleaning Cloth  
Premium Set contains 200ml Cleansing Milk, 5 Gasket Care Sachets, 30ml Fitting Oil and 1 Cleaning Cloth

Description	VBH Code	Box Qty
Basic Set	3COS0026	1
Premium Set	3COS0027	1

Cosmo PU-100.130 Construction Adhesive



Solvent and colour-free 1-part adhesive ideal for bonding corner angles in many materials  
Very fast bonding time when over-sprayed with water

Description	VBH Code	Box Qty
Cosmo PU-100.130 310ml White	3COS0073	20
Cosmo PU-100.130 310ml Grey	3COS0078	20
Cosmo PU-100.130 310ml Black	3COS0079	20

Cosmo CL-300.120 Cleaner



This slightly dissolving cleaner is used for removing marks from white PVCu profiles, and to prepare surfaces for adhesive application  
Not for use on transparent surfaces  
For workshop use only

Description	VBH Code	Box Qty
Cosmo CL-300.120 1 Litre	3COS0021	10

Cosmo CL-300.140 Cleaner



A non-dissolving cleaner for cleaning PVCu and foiled profiles  
Effective in removing residue from protective foils, fixing foam and sealant, pencil marks, wax and rubber traces  
Its anti-static properties make it ideal for removing dirt and dust  
For workshop use only

Description	VBH Code	Box Qty
Cosmo CL-300.140 1 Litre	3COS0022	10



## Construction Chemicals

### Weiss - PVCu Repair Kit



A 2-part (6g resin & 13g powder) repair kit to carry out major repairs and fill and repair scratches and small gaps  
Supplied with applicator and instructions

Description	VBH Code	Box Qty
White Repair Kit	3COS0020	6

### GT85 Lubricant Spray with PTFE



Non-sticky lubricant with PTFE for effective lubrication with no residue to attract grit and dirt  
The lubricant of choice for locksmiths and repair professionals

Description	VBH Code	Box Qty
400ml Spray Can	3TLS0516	36

### Superglue & Activator



For quick and stain-free bonding of trims, end caps etc

Description	VBH Code	Box Qty
Superglue 20g	3GLU0212	10
Superglue 50g	3GLU0211	10
Activator Spray 200ml	3GLU0213	24

### WD-40 White Lithium Grease



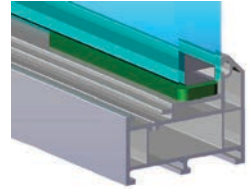
Ideal for metal to metal applications where heavy duty lubrication and protection against rust and corrosion are required  
Sprays on evenly as a liquid and sets dry for a thick, protective coating that won't run-off, melt or freeze

Description	VBH Code	Box Qty
250ml Spray Can	3TLS0518	12

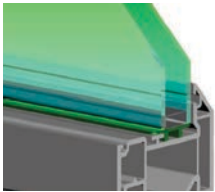
# Glazing and Frame Packers Etc

## Flat Glazing Packers

Size	VBH Code	Box Qty	Size	VBH Code	Box Qty	Size	VBH Code	Box Qty
15 x 100 x 1	6PRP0001	1000	24 x 100 x 1	6PRP0031	1000	30 x 100 x 1	6PRP0061	1000
15 x 100 x 2	6PRP0002	1000	24 x 100 x 2	6PRP0032	1000	30 x 100 x 2	6PRP0062	1000
15 x 100 x 3	6PRP0003	1000	24 x 100 x 3	6PRP0033	1000	30 x 100 x 3	6PRP0063	1000
15 x 100 x 4	6PRP0004	1000	24 x 100 x 4	6PRP0034	1000	30 x 100 x 4	6PRP0064	1000
15 x 100 x 5	6PRP0005	1000	24 x 100 x 5	6PRP0035	1000	30 x 100 x 5	6PRP0065	1000
15 x 100 x 6	6PRP0006	1000	24 x 100 x 6	6PRP0036	1000	30 x 100 x 6	6PRP0066	1000
20 x 100 x 1	6PRP0011	1000	26 x 100 x 1	6PRP0041	1000	32 x 100 x 1	6PRP0071	1000
20 x 100 x 2	6PRP0012	1000	26 x 100 x 2	6PRP0042	1000	32 x 100 x 2	6PRP0072	1000
20 x 100 x 3	6PRP0013	1000	26 x 100 x 3	6PRP0043	1000	32 x 100 x 3	6PRP0073	1000
20 x 100 x 4	6PRP0014	1000	26 x 100 x 4	6PRP0044	1000	32 x 100 x 4	6PRP0074	1000
20 x 100 x 5	6PRP0015	1000	26 x 100 x 5	6PRP0045	1000	32 x 100 x 5	6PRP0075	1000
20 x 100 x 6	6PRP0016	1000	26 x 100 x 6	6PRP0046	1000	32 x 100 x 6	6PRP0076	1000
22 x 100 x 1	6PRP0021	1000	28 x 100 x 1	6PRP0051	1000	34 x 100 x 3	6PRP0083	1000
22 x 100 x 2	6PRP0022	1000	28 x 100 x 2	6PRP0052	1000	34 x 100 x 4	6PRP0084	1000
22 x 100 x 3	6PRP0023	1000	28 x 100 x 3	6PRP0053	1000	34 x 100 x 5	6PRP0085	1000
22 x 100 x 4	6PRP0024	1000	28 x 100 x 4	6PRP0054	1000	34 x 100 x 6	6PRP0086	1000
22 x 100 x 5	6PRP0025	1000	28 x 100 x 5	6PRP0055	1000			
22 x 100 x 6	6PRP0026	1000	28 x 100 x 6	6PRP0056	1000			



## Bridge Packers



Size	VBH Code	Box Qty
20 x 100 x 5	6PRP0215	1000
22 x 100 x 5	6PRP0225	1000
24 x 100 x 5	6PRP0235	1000
26 x 100 x 5	6PRP0245	1000
28 x 100 x 3	6PRP0253	1000
28 x 100 x 4	6PRP0254	1000
32 x 100 x 5	6PRP0275	1000
32 x 100 x 7	6PRP0277	1000

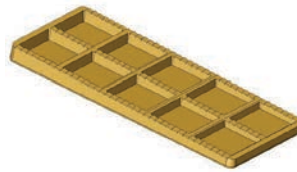
## Drain Hole Covers

Size	VBH Code	Box Qty
Round White	6PRP0501	1000
Rectangular Wht	6GPP1104	1000

## Locit Universal Sash Jack Toe & Heel Device

Description	VBH Code	Box Qty
Universal Sash Jack	2GBA0261	20
Ball End 4mm Allen Driver	3TLS0047	1

## Wedge Packers



Size	VBH Code	Box Qty
14 x 80 x 1-3	6PRP0101	1000
14 x 80 x 3-5	6PRP0102	1000
14 x 100 x 2-4	6PRP0103	1000
14 x 100 x 4-6	6PRP0104	1000
20 x 60 x 1-3	6PRP0111	1000
20 x 60 x 3-5	6PRP0112	1000
20 x 60 x 2-4	6PRP0113	1000
20 x 60 x 4-6	6PRP0114	1000
20 x 60 x 1-3	6PRP0131	1000
24 x 60 x 3-5	6PRP0132	1000
24 x 60 x 2-4	6PRP0133	1000
24 x 60 x 7.5-9.5	6PRP0134	1000
24 x 100 x 1-4	6PRP0135	1000
26 x 80 x 3-5	6PRP0141	1000
28 x 80 x 1-3	6PRP0151	1000
28 x 80 x 3-5	6PRP0152	1000
28 x 100 x 2-4	6PRP0153	1000
28 x 100 x 4-6	6PRP0154	1000
30 x 80 x 3-5	6PRP0162	1000
32 x 80 x 2-4	6PRP0173	1000
32 x 80 x 4-6	6PRP0174	1000

## Frame Packers



Size	VBH Code	Box Qty
53 x 62 x 1	6PRP0301	1000
53 x 62 x 2	6PRP0302	1000
53 x 62 x 3	6PRP0303	1000
53 x 62 x 4	6PRP0304	1000
53 x 62 x 5	6PRP0305	1000
53 x 62 x 6	6PRP0306	1000
53 x 62 x 10	6PRP0307	1000



# Hand Tools

## Bolt Cutters



Description	VBH Code	Box Qty
600mm (24")	3TLS0503	1

## Moon Knife



Description	VBH Code	Box Qty
Moon Knife - Don Carlos	3TLS0095	1
Moon Knife - Budget	3TLS0003	1
Sprue Guide	3TLS0096	1

## Driver Bits & Holder

Description	VBH Code	Box Qty
Magnetic Driver Bit Holder	3TLS0203	1
#2 Phillips Bit 25mm	3TLS0202	1
#2 Phillips Bit 50mm Long	3TLS0207	1
#2 Phillips Bit 70mm Long	3TLS0205	1

## Suction Cup



Description	VBH Code	Box Qty
Heavy Duty Dual Suction Cup	3TLS0513	1

## Utility Knife



Description	VBH Code	Box Qty
Utility Knife	3TLS0512	1/24

## Tape Measure



Description	VBH Code	Box Qty
3m x 16mm Tape Measure	3TLS0110	1
5m x 19mm Tape Measure	3TLS0111	1

# Hand Tools

## Hi-Tension Hacksaw



Description	VBH Code	Box Qty
Hi-Tension Hacksaw	3TLS0510	1

## Glazing Shovel



Description	VBH Code	Box Qty
Glazing Shovel	3TLS0001	1

## Key Sets



Description	VBH Code	Box Qty
8-Piece Folding Torx Key Set	3TLS0514	1



Description	VBH Code	Box Qty
8-Piece Folding Hex Key Set	3TLS0515	1

## Easi-Gauge Sealed Unit Measuring Caliper



Description	VBH Code	Box Qty
Easi-Gauge Caliper	3TLS0093	1

## Ribbed Level



Description	VBH Code	Box Qty
600mm (24") Ribbed Level	3TLS0511	1

# Hand Tools

## Hammers, Mallets & Shears



Description	VBH Code	Box Qty
Claw Hammer with Steel Tubular Handle	3TLS0500	1/24



Description	VBH Code	Box Qty
Club Hammer 1Kg Fibreglass	3TLS0501	1/12



Description	VBH Code	Box Qty
16 oz Fibreglass Rubber Mallet White Head	3TLS0502	1/24



Description	VBH Code	Box Qty
Fixed Mitre Shears	3TLS0004	1
Spare Blade	3TLS0064	1
Spare Cutting Plate	3TLS0065	1



Description	VBH Code	Box Qty
Multi-Purpose Shears	3TLS0007	1

# Hand Tools

## Chisels & Bolsters



Description	VBH Code	Box Qty
2 1/4" Bolster with Guard	3TLS0507	1



Description	VBH Code	Box Qty
4-Piece Wood Chisel Set (6, 13, 19, 25mm)	3TLS0506	1

## Clamps



Description	VBH Code	Box Qty
6" Ratchet Speed Clamp	3TLS0504	48



Description	VBH Code	Box Qty
One Hand Speed Clamp 150mm (6")	3TLS0505	1/24

## Wrecking Bar



Description	VBH Code	Box Qty
600mm (24") Strong Arm Wrecking Bar	3TLS0508	1

## Caulking Gun



Description	VBH Code	Box Qty
11" Heavy Duty Caulking Gun	3TLS0509	1

# Pet Doors

Pet Doors for Animals up to 45Kg



Description	Operation*	Overall Size W x H (mm)	Animal Size	VBH Code	Box Qty
White Sleeved	4-Way	241 x 252	Cats Up To 7Kg	2GBA2000	1
Woodgrain Sleeved	4-Way	241 x 252	Cats Up To 7Kg	2GBA2001	1
White Magnetic	4-Way	241 x 252	Cats Up To 7Kg	2GBA2002	1
White Unsleeved - Small	2-Way	198 x 236	Cats Up To 7Kg/Small Dogs Up To 3Kg	2GBA2005	1
Brown Unsleeved - Small	2-Way	198 x 236	Cats Up To 7Kg/Small Dogs Up To 3Kg	2GBA2006	1
White - Medium	2-Way	294 x 352	Dogs Up To 18Kg	2GBA2007	1
Brown - Medium	2-Way	294 x 352	Dogs Up To 18Kg	2GBA2008	1
White - Large	2-Way	386 x 456	Dogs Up To 18Kg	2GBA2009	1
Brown - Large	2-Way	386 x 456	Dogs Up To 18Kg	2GBA2010	1

\*Functions of 2 & 4-Way Pet Doors

2-Way - Fully locked, fully open

4-Way - Fully locked, fully open, in only, out only

# Concise Buyers' Guide

## By Brand

### Adams Rite -

Access Control  
Door Locks  
Emergency Exit Hardware  
Transom Closers

### Alpro -

Pull Handles

### Argenta -

Door Hinges  
Window Hinges

### Axim -

Flush Bolts

### J Banks -

Door Restrictors  
Window Restrictors

### Barrier

Bi-Fold Door Hardware  
Door Locks  
Door Restrictors  
Finger Bolts  
Flush Bolts

### Caldwell -

Folding Openers  
Window Restrictors

### Cotswold -

Friction Stays  
Window Restrictors

### Dorma -

Door Closers

### Dr Hahn -

Door Hinges

### Duco -

Louvre Grilles  
Ventilators

### Eclipse -

Black Antique Ironwork  
Butt Hinges  
Casement Fasteners & Stays  
Digital Locks  
Door Closers (Concealed)  
Door Handles & Furniture  
Finger Bolts  
Flush Bolts  
Internal Door Locks (Incl. WC)  
Letterplates  
Mortice Locks  
Nightlatches  
Pull Handles  
Tubular Latches  
Vertical Slider Hardware

### Exidor -

Emergency Exit Hardware

### Exitex -

Door Threshold  
Draught-Proofing  
Drop Seals  
Dry Glazing Tape  
Georgian Bar Tape  
Inert Seals  
Weather Bar

### Fenster -

Window Restrictors

### Geze -

Door Closers

### greenteQ

Adhesive  
Bi-Fold Door Hardware  
Door Handles  
Door Hinges  
Door Knockers  
Door Restrictors  
Door Threshold  
Door Viewers  
Friction Stays  
Friction Stay Security Devices  
Gaskets  
Hand Tools  
Letterboxes  
Monkey Tail Decorative  
Casement Stays  
Monkey Tail Espag Handles  
Profile Cylinders  
Pull Handles and Rosettes  
Silicone  
Sliding Door Handles  
Tilt & Turn Handles  
Weather Bar  
Window Espagnolettes  
Window Handles  
(Espagnolette, Monkey Tail & Cockspur)

### Giese -

Door Locks

### Glaspart -

Drain Hole Covers  
Frame Packers  
Glazing Packers  
Glazing Bridges  
Run-Up Blocks  
Ventilators

### Greenwood -

Ventilators

### GT85 -

GT85 Lubricant Spray  
SG85 White Grease

### GU/Ferco -

Door Locks  
Stable Door Locks  
Window Restrictors  
Window Hinges

### Gutmann -

Drain Track

### Haps -

Door Hinges  
Window Hinges

### Hautau -

Window Restrictors

### Hoppe -

Door Knockers  
Door Handles  
Door Numerals  
Letterboxes  
Patio Door Handles  
Tilt & Turn Handles  
Window Handles (Espagnolette)

### Kaba -

Profile Cylinders

### Kenrick -

Espagnolettes  
Window Shootbolts

### KFV -

Door Locks  
Finger Bolts  
Stable Door Locks

### Locit -

Door Restrictors  
Toe & Heel Sashjacks  
Window Restrictors

### Maco -

Door Hinges  
Door Locks  
Door Restrictors  
Finger Bolts  
Friction Stay Security Devices  
Lift/Slide Patio Gear  
Parallel Sliding Hardware  
Profile Cylinders  
Tilt & Turn Gear  
Tilt/Slide Patio Door Gear  
Window Espagnolettes  
Window Restrictors  
Window Security Espagnolettes  
(RAIL)  
Window Shootbolts



# Concise Buyers' Guide

## By Brand

### Paddock - (Yale)

Door Furniture  
Letterboxes

### Peder Nielsen (PN) -

Reversible Window Gear

### PetSafe -

Cat Flaps  
Pet Doors

### Renson -

Door Hinges  
Louvre Grilles  
Ventilators  
Window Hinges

### Roto -

Bi-Fold Door Gear  
Door Handles  
Door Hinges  
Door Locks  
Door Restrictors  
Door Threshold  
Sliding Door Gear (Inline)  
Tilt & Turn Gear  
Tilt & Turn Handles  
Tilt/Slide Patio Door Gear  
Window Espagnolettes  
Window Restrictors  
Window Security Espagnolettes (TSL)  
Window Shootbolts

### Securistyle -

Friction Stays  
Friction Stay Security Devices  
Window Handles  
Window Restrictors

### Siegenia -

Bi-Fold Door Gear  
Lift/Slide Door Gear  
Sliding Door Gear (Inline)  
Tilt & Turn Gear  
Tilt & Turn Handles  
Tilt/Slide Patio Door Gear

### Staywell -

Cat Flaps  
Pet Doors

### Strand -

Door Restrictors  
Electric Fanlight Gear  
Emergency Exit Hardware  
Fanlight Winding Gear  
Finger Protection  
Folding Openers  
Screwjacks

### Weiss-Chemie -

Adhesives  
Care & Maintenance Sets  
Cleaners

### Yale -

Access Control  
Digital Door Locks  
Door Furniture  
Door Handles  
Door Locks  
Electronic Door Locks  
Emergency Exit Hardware  
Finger Bolts  
Friction Stays  
Internal Door Locks (Incl. WC)  
Letterboxes  
Mortice Locks  
Nightlatches  
Padlocks  
Profile Cylinders  
Repair Door Handles  
Repair Door Locks  
Replacement Gearboxes  
Security Bolts  
Sliding Door Gear (Inline)  
Tubular Latches  
Window Security Espagnolettes (Encloser, Defender and Blade)  
Window Shootbolts



# Concise Buyers' Guide By Product

## Access Control -

Adams Rite  
Eclipse  
Yale

## Adhesive -

greenteQ  
Weiss-Chemie

## Bi-Fold Door Hardware -

greenteQ  
Barrierfold  
Roto  
Siegenia  
Vistafold

## Casement Stays & Fasteners -

Black Antique  
Eclipse  
Yale

## Cat Flaps -

PetSafe  
Staywell

## Cleaners & Care Kits -

greenteQ  
Weiss-Chemie

## Door Closers - (Overhead & Transom)

Adams Rite  
Dorma  
Geø

## Door Finger Protection -

Strand

## Door Furniture -

greenteQ  
Black Antique  
Hoppe

## Door Handles -

greenteQ  
Black Antique  
Eclipse  
Hoppe  
Roto  
Yale

## Door Hinges

greenteQ  
Argenta  
Barrierfold  
Black Antique  
Dr. Hahn  
Eclipse  
Haps  
Maco  
Roto

## Door Locks - Multipoint

Ferco  
GU  
KFV  
Maco  
Roto  
Yale

## Door Locks: Mortice -

Adams Rite  
Barrier  
Eclipse  
Giesse  
Yale

## Door Restrictors -

greenteQ  
Locit  
Maco  
Roto  
Siegenia  
Strand

## Door Security Products -

greenteQ  
J Banks  
Yale

## Door Threshold -

greenteQ  
Exitex  
Roto

## Drain Track -

Gutmann

## Emergency Exit Hardware -

Adams Rite  
Exidor  
Strand  
Yale

## Fanlight Gear -

Caldwell (Spring Catches)  
Highline (Electric or Winding System)  
Quickline (Electric or Winding System)  
Pace (Folding Openers)  
Strand (Folding Openers & Screwjacks)

## Friction Stays -

greenteQ  
Cotswold  
Securistyle  
Yale

## Friction Stay Security Devices -

greenteQ  
Maco  
Securistyle  
Yale

## Flush & Finger Bolts -

Axim  
Barrierfold  
Black Antique  
Eclipse  
Maco  
Siegenia  
Vistafold  
Yale

## Glaž ng Packers & Bridges -

Glap art

## Hand Tools -

greenteQ  
Various

## Inline Sliding Door Hardware -

greenteQ  
Roto  
Siegenia  
Yale

## Letterboxes -

greenteQ  
Black Antique  
Hoppe  
Yale (Paddock)

## Lift/Slide Door Hardware -

Maco  
Siegenia

## Louvre Grilles -

Duco  
Renson

## Lubricants -

GT85 Spray with PTFE  
SG85 White Grease

## Nightlatches -

Eclipse  
Yale

## Parallel Sliding Door Gear -

Maco



# Concise Buyers' Guide By Product

## Pet Doors -

PetSafe  
Staywell

## Profile Cylinders -

greenteQ  
Kaba Gege  
Maco  
Yale

## Pull Handles and Rosettes -

greenteQ  
Alpro  
Black Antique  
Hewi

## Repair Locks & Replacement Gearboxes

Yale Doormaster

## Reversible Window Hardware -

PN (Peder Nielsen)

## Run-Up Blocks -

Glap art

## Seals & Draught-Proofing -

greenteQ  
Exitex

## Security Casement Locking Systems -

Maco (RAIL)  
Roto (TSL)  
Yale (Encloser, Defender & Blade)

## Silicone Sealant -

greenteQ  
Soudal

## Sliding Door Gear - (Inline)

Roto  
Siegenia  
Yale

## Sliding Door Handles -

greenteQ  
Roto  
Yale

## Stable Door Locks -

GU  
KFV  
Maco  
Roto

## Tapes - (Security, Georgian Bar & Dry Glazing)

Exitex

## Tilt/Slide Door Hardware -

Maco  
Siegenia

## Tilt & Turn Hardware -

Maco  
Roto  
Siegenia

## Tilt & Turn Handles -

greenteQ  
Hoppe  
Roto  
Siegenia

## Ventilators - (Through-frame & Glazing-in)

Duco  
Glap art  
Greenwood  
Renson

## Vertical Sliding Sash Hardware -

Eclipse

## Weather Bar -

greenteQ  
Exitex  
Roto

## Window Espagnolettes -

greenteQ  
Kenrick  
Maco  
Roto  
Yale

## Window Handles -

greenteQ  
Hoppe  
Securistyle  
Yale

## Window Hinges - (Fixed Pivot)

Eclipse  
GU  
Haps  
Roto  
Siegenia

## Window Locking Systems -

Maco (RAIL)  
Roto (TSL)  
Yale (Encloser, Defender & Blade)

## Window Restrictors -

greenteQ  
J Banks  
Caldwell  
Cotswold  
Fenster  
Hautau  
Locit  
Maco  
Roto  
Securistyle  
Siegenia

## Window Shootbolts -

greenteQ  
Kenrick  
Maco  
Roto  
Yale

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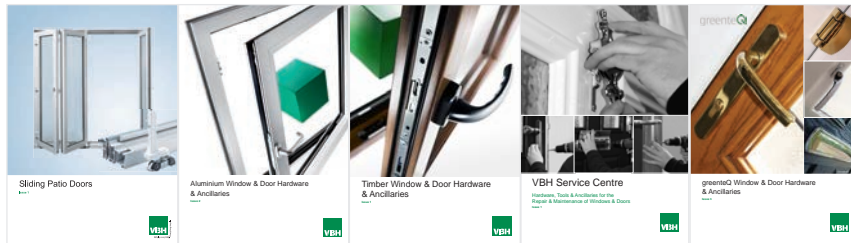


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