# **SHUTTERS TECHNICAL GUIDE**

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BUILT-ON SECURITY SHUTTERS TECHNICAL GUIDE



# **Built-On Security Shutters Technical Guide**

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### INTRODUCTION

Our product range has been developed in Britain to provide an architecturally acceptable answer to the growing demand for vandalism and burglary protection on domestic, commercial and retail properties.

The SECEURO range of products are compliant with the latest European product directives and standards including BSEN 13241-1 applicable from the 1st May 2005.

The uniquely neat finish of the Seceuro range of security window shutters is particularly evident when they are built-on to an existing building with compact aluminium boxes, styled to minimise their visual impact.

The slimline finish makes internal fitting of window shutters a frequent choice. Our continuous programme of product development has produced a compact shutter of exceptional strength for small to medium size apertures.

Installations nationally protect windows and doors on city centre, suburban and rural homes, offices, factories, sports centres, medical premises, schools, community centres, computer rooms and golf clubs. In short, any building where security is a concern.

#### **OPERATION**

Swivel/geared belt Shutters are raised and lowered from inside by a belt. Depending upon shutter size the belt is operated manually or by geared crank handle. This is a lower security option.

Rod crank Shutters are raised and lowered from inside by a geared rod crank winding handle which hangs down vertically underneath the box and secures on a clip when not in use.

Spring loaded For external operation on exit doors, shutters can be spring loaded with a transverse key lock in the bottom slat. Also a popular option for bar, servery, counter, cabinet and kiosk applications. (N.B. The bottom slat projects below the shutter when fully raised, check that this will not obstruct outward opening doors)

Electric Motors are required on larger shutters and are optional on smaller shutters. Tubular motors fit inside the axle and require a 3 amp fuse. Operation is by rocker switch, key switch or remote control. A manual override can be specified to operate from inside. Where desirable a manual override can also be engaged through the outside of an externally fitted shutter box. Under these circumstances a lockable override cover is available as an optional extra to maximise security. Multi-shutter electric installations can be wired to operate from a central or group switches. Ask for further details. Care should be taken to ensure that such installations are in line with current Health and somfv. Safety Legislation.



Users must be instructed to operate electric shutters with care, particularly when lowering. Check that the shutter operates smoothly when lowering, do not leave running unattended. If the shutter does not start to descend immediately or falters during operation, stop at once, reverse the shutter and try again. If the problem persists the shutter must be checked by an engineer. If an electric shutter is left to run unattended and damage occurs to the shutter any guarantee is void. Clear instruction must be given to users on the manual override winding direction to raise the shutter. Winding the shutter downwards beyond the normal stop point will damage the shutter.

#### **Power Requirement**

A Shutter up to 5sqm/50kg typically draws 1.1A/240W A Shutter up to 10sqm/100kg typically draws 1.5A/320W



Thermal Cut Out Switch Tubular motors have a thermal cut out to prevent overheating after approximately four minutes of continuous running. This may cut in while setting limit switches; wait 15-30 minutes then restart the motor.

CE Marking All power-operated shutters are supplied with full CE marking documentation to assist in compliance with:

The Supply of Machinery (Safety) Regulations 1992 The Health and Safety at Work Act 1974

FINISH The shutter box, guide rail and bottom slat are typically powder coated in white or dark brown as standard. The shutter slats come in a variety of colours depending on the product. Please refer to the table opposite for more details. Standard R.A.L. or BS colours are also available at a surcharge on most products.

SIZING All shutters are individually made to customers sizes and specifications to maximise security. Maximum sizes may alter depending upon the application, wind loading or whether installed as a secondary or sole opening closure.

MAINTENANCE Window shutters primarily require keeping clean, particularly on city centre or coastal installations. Commercial installations should have a maintenance check every year. The guarantee period on all shutters is 18 months and covers replacement parts only. External key operated locks require frequent lubrication (light grade SAE oil).

#### PERFORMANCE

Security A locking device operates automatically when the shutter is fully lowered. Spring assisted shutters are fitted with a key lock fitted centrally in the bottom slat. Burglary resistance can be further enhanced by the use of bullet locks (see page 7). Reinforcing angle on the cill for the shutter to sit down behind is recommended on wide or vulnerable installations. Extruded slats are utilised for optimum security.

Shading/blackout Shutters can be stopped at any point to be used for shading (with the exception of spring operated shutters). This is enhanced by the optional light slits on the foam filled CD150 slats. When the shutter is fully closed it is effectively a blackout blind.

Thermal and acoustic conductivity The K value of a double glazed window fitted with a foam filled shutter is further improved by 35% from 1.8 to 2.6 w/m2 K. The improvement is virtually the same with an extruded slat. These products can also be used to reduce unwanted background noise.

INSTALLATION/SUPPLY Detailed installation instructions are available for each shutter type; installation and supply are carried out by approved installers.

**INSTALLATION OPTIONS** The shutter can be installed around the reveal or in the reveal, internally or externally, depending on the window/door configuration and client preference. The following pages detail the sizing and layout options for each type of built-on shutter operation. Each has technical advantages and limitations, particularly on maximum sizes. All shutters require a cill or flat solid floor to close down onto. On new build projects we recommend built-in shutters, details of which are available in a separate brochure.



| MAXIMUM/MINIMUM DIN<br>APPLICATIONS, FINISHES<br>At a glance<br>Shutters coil with the concave side facing the t<br>The fixing position of the shutter box determin                              | <b>5 &amp; OP</b>           | PERATIO                        | DN  |  |                                    |                              | 1031                   | ROD CRANK                     |  | the second     | GEARED BELI | 12 P      |              | SWIVEL BELT |                                    |
|--|-----------------------------|--------------------------------|---|--|------------------------------------|------------------------------|------------------------|-------------------------------|--|----------------|-------------|-----------|--------------|-------------|------------------------------------|
| shutter slats. 7500 slats are <u>also</u> able to coil in<br>barrel) allowing the preferred visible external fa<br>shutter fixing position. Reverse coiling increase<br>data for a given height. | reverse (co<br>ace to be se | onvex side fa<br>lected irresp | cing the ective of  |  |                                    |                              | $\geq$                 | ŢĽ                            |  |                | 5           |           | 7            | 5           |                                    |
|  |                             |                                | hsurance Approved   | White Brown<br>stel Brown<br>sty / Kiosk | Galval<br>Tin Silver<br>Town/Creat | RAL BS<br>Inised<br>Anodised | Maringle Pha<br>Powder | Rod o<br>Ual Sprin<br>Se Elec | Geared<br>rank<br>ng/hang<br>tric ope<br>otion | Swivel<br>Belt | Belt ***    | this is a | 6            |             |                                    |
|  | POLICE PREFI<br>SPECIFICAT  | ERRED                          |   |  | Cabinet                            |                              |                        | · 0                           | ope,   | ration         | ed.         | .OW Sec   | Curity Or    | Thy op      |                                    |
| Convex Concave   | Concave<br>Face             | Convex<br>Face                 | Max/Min Overall Size (wxh)<br>Max Area in sqm<br>Material Type / Curtain weight                             |  | ications                           |                              | Standa                 |                               |  |                |             | ratio     | يەر<br>n/max | x.are       | b <sub>n</sub><br>a m <sup>2</sup> |
| SECEUR ISHIELD 3801<br>Insurance Approved 5<br>Security Shutters   |                             |                                | Min Width 900mm<br>Max 3000mm x 4000mm<br>Max Area 12sqm<br>Extruded Aluminium / 8kgm <sup>2</sup>          | •  | • •                                | •                            | •                      |                               |  | •              | 12          |           |              |             |                                    |
| SECEUR <sup>®</sup> VISION <sup>®</sup> 3800<br>See-Through Shutters<br>Punched/Glazed 45% Vision  |                             | Ī                              | Min Width 500mm<br>Max 3000mm x 5000mm<br>Max Area 12sqm<br>Extruded Aluminium / 6.5kgm <sup>2</sup>        | •  | •                                  | •                            |                        |                               |  | •              | 12          | 9         | 4.5          | 3.8         | 2.3                                |
| SECEUR <sup>®</sup> VISION <sup>®</sup> 3800<br>See-Through Shutters<br>Perforated 17% Vision  |                             |                                | Min Width 500mm<br>Max 3000mm x 5000mm<br>Max Area 12sqm<br>Extruded Aluminium / 6.5kgm <sup>2</sup>        | •  | • •                                | •                            |                        |                               |  | •              | 12          | 9         | 4.5          | 3.8         | 2.3                                |
| SECEUR <sup>®</sup> VISION <sup>®</sup> 7500<br>See-Through Shutters<br>Perforated 25% Vision  |                             |                                | Min Width 900mm<br>Max 6000mm x 3400mm<br>Max Area 15sqm<br>22 swg Steel / 8kgm² 6                          |  | • •                                | •                            |                        |                               | •  | •              | 15          | 10        |              |             |                                    |
| SECEUR <sup>®</sup> VISION <sup>®</sup> 8000<br>See-Through Shutters<br>Punched & Glazed 62% Vision  |                             | 1                              | Min Width 900mm<br>Max 6000mm x 5000mm<br>Max Area 20sqm<br>Extruded Aluminium / 7kgm <sup>?</sup> <b>2</b> |  | • •                                | •                            | •                      |                               |  | •              | 20          | 8         |              |             |                                    |
| SECEUR <sup>®</sup> VISION <sup>®</sup> 9000<br>See-Through Roller Grille<br><sup>4</sup> 55/69% Vision  |                             |                                | Min Width 900mm<br>Max 5000mm x 4000mm<br>Max Area 13sqm<br>Extruded Aluminium / 7kgm <sup>2</sup> 4        |  | •                                  | •                            |                        | •                             |  | •              | 13          | 8         |              |             |                                    |
| SECEUR <sup>®</sup> SCREEN <sup>®</sup> 1500<br>Built-On Security Shutters   |                             |                                | Min Width 500mm<br>Max 3400mm x 4000mm<br>Max Area 8sqm<br>Insulated Rolled Aluminium / 4.5kgm²             | •  |                                    | •                            |                        | 3                             |  |                | 8           | 6         | 6.5          | 5.5         | 3.3                                |
| SECEUR <sup>®</sup> SHIELD <sup>®</sup> 3800<br>Built-On Security Shutters   |                             |                                | Min Width 500mm<br>Max 4000mm x 5000mm<br>Max Area 12sqm<br>Extruded Aluminium / 8kgm²                      | •  | • •                                | •                            |                        |                               |  | •              | 12          | 7         | 3.5          | 3           | 2                                  |
| SECEUR <sup>®</sup> SHIELD <sup>™</sup> 6000<br>Built-On Security Shutters   |                             |                                | Min Width 900mm<br>Max 6000mm x 5000mm<br>Max Area 20sqm<br>Extruded Aluminium / 9kgm²                      |  | • •                                | •                            |                        |                               |  | •              | 20          | 8         |              |             |                                    |
| SECEUR <sup>®</sup> SHIELD <sup>®</sup> 7500<br>Built-On Security Shutters   |                             |                                | Min Width 900mm<br>Max 6000mm x 3400mm<br>Max Area 15sqm<br>22swg Steel / 10kgm <sup>2</sup> 6              |  | • •                                | •                            |                        |                               | •  | •              | 15          | 8         |              |             |                                    |
| SECEUR <sup>®</sup> SHIELD <sup>®</sup> 7700<br>Built-On Security Shutters   |                             |                                | Min Width 900mm<br>Max 5400mm x 4000mm<br>Max Area 16sqm<br>Insulated Rolled Aluminium / 5kgm²              | •  | •                                  | •                            |                        | 3                             |  |                | 16          | 12        |              |             |                                    |

The validity of the LPCB certification is contingent upon each security shutter being installed in accordance with the requirements of LPS 1175.
Please note the maximum sizes quoted for SeceuroVision 7500 and SeceuroShield 7500 are applicable to the continental style shutter with aluminium head box and guide rails. These products are also available with traditional galvanised steel channels and head box. The maximum sizes for the traditional style are as follows: maximum width 6400mm, maximum height 4700mm and maximum area 20sqm.

- Sizes quoted may not be available with some operation modes (see the data for each operation type for confirmation) and may alter depending upon product application, wind loading or whether installed as a 2 9.25kgm² with glazing.
  3 SeceuroShield 7700 slat standard colour option is light beige in place of cream, and is available in a range of 7 colours. Woodgrain finish also available as an option for SeceuroShield 7700 & Se
- SeceuroScreen 1500.
  150mm link spacing 6kg/sqm with 69% vision as standard or optional 75mm link spacing 7kg/sqm with 55% vision (shown).

NOTE: The standard colours are for the curtain only. Guides, shutter box and the bottom rail are supplied in white or dark brown as standard. Colour matching to the curtain is an optional extra - please request clarification for the shutter chosen.

# **Built-On Shutters - Typical Arrangements**

## **ENERAL ARRANGEMENT**

Shutter box The shutter coil is completely encased in a two piece, roll formed aluminium box, available in a range of six sizes according to the shutter height and slat type The box is styled with a 45° chamfer to minimise the visual impact. On large electric operation shutters which require a manual override the box extends beyond the width of the guides to accommodate the override mechanism on the drive side (see page 4).

Lugs at each end of the box locate into the box section of the guide rail.

Shutter slats A range of profiles is available dependent upon the security and/or vision requirement.

Aluminium shutters are available in extruded aluminium in single and twin wall profiles and roll formed in twin wall foam insulation filled profiles.

Steel shutters The SeceuroShield/Vision 7500 is a single wall profile in 22swg steel. The bottom slat further allows for tailoring of security level.

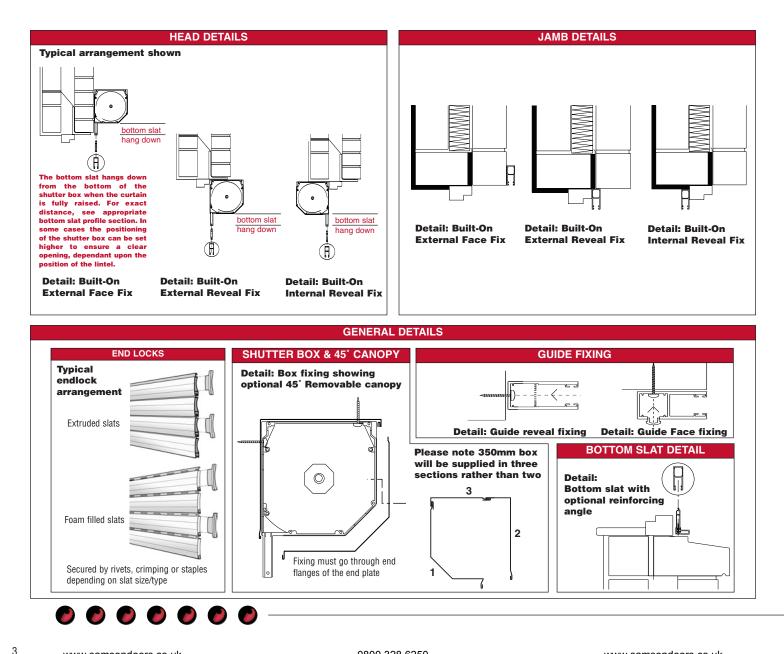
#### Operation

By Rod crank, Swivel/geared belt, Spring loaded or Electric (shown)

Safe operation of shutters which are not visible from the point of operation must be considered.

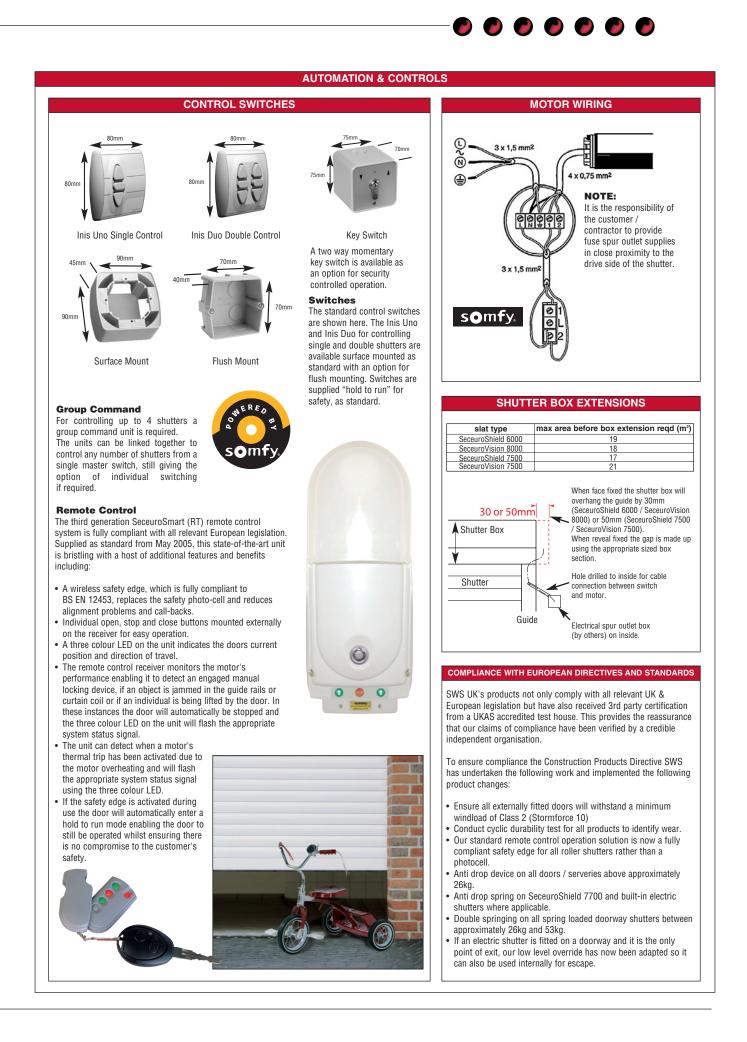
#### **Guide rails**

Constructed from extruded aluminium with a brush pile or neoprene liner for quiet, smooth operation. The guide rail is strengthened by a box section which also provides a separate fixing position and allows the shutter box to locate into. Size varies with slat type, shutter size and level of security. For locations with high security risk areas or high wind loading a windlock guide is available for some slat types.



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# Built-On Shutters - Electric Operation

| The maximum area for a given slat design is NO maximum width x maximum height. Please chec    | T a product of<br>k your shutter size  |    | Box Profile (a) | ) For Shutter H | eights includin | a                          | , <mark>∕</mark> a         | <u>a</u>                   | 1                          |   |
|---|--|----|-----------------|-----------------|-----------------|----------------------------|----------------------------|----------------------------|----------------------------|---|
|   | nvex Sizing Data ‡   |    | a               | a               | a               | a                          | a                          | a                          | a                          | 1 |
| race ra   | ace  |    | 165mm           | 180mm           | 205mm           | 250mm                      | 300mm                      | 350mm                      | 400mm                      |   |
| SECEUR®SHIELD <sup>®</sup> 3801<br>Insurance Approved<br>Security Shutters                    | Min Width 900mm<br>Max Width 3000mm<br>Max Height 4000mm<br>Max Area 12sqm   |    | 1000 - 1600     | 1601 - 1900     | 1901 - 2800     | 2801 - 4000                |                            |                            |                            |   |
| SECEUR® VISION <sup>™</sup> 3800<br>See-Through Shutters<br>Punched/Glazed 45% Vision         | Min Width 750mm<br>Max Width 3000mm<br>Max Height 5000mm<br>Max Area 12sqm   |    | 1000 - 1600     | 1601 - 1900     | 1901 - 2800     | 2801 - 5000                |                            |                            |                            |   |
| SECEUR® VISION 3800<br>See-Through Shutters<br>Perforated 17% Vision                          | Min Width 750mm<br>Max Width 3000mm<br>Max Height 5000mm<br>Max Area 12sqm   |    | 1000 - 1600     | 1601 - 1900     | 1901 - 2800     | 2801 - 5000                |                            |                            |                            |   |
| SECEUR <sup>®</sup> VISION <sup>®</sup> 7500<br>See-Through Shutters<br>Perforated 25% Vision | Min Width 1000mm<br>Max Width 6000mm<br>Max Height 4700mm<br>Max Area 20sqm  | ** | •               |                 | *               | 1000 - 2000<br>1000 - 1250 | 2001 - 2800<br>1251 - 2500 | 2801 - 3800<br>2501 - 3400 | 3801 - 4700<br>3401 - 4700 |   |
| SECEUR VISION 8000<br>See-Through Shutters<br>Punched & Glazed 62% Vision                     | Min Width 900mm<br>Max Width 6000mm<br>Max Height 5000mm<br>Max Area 20sqm   |    |                 |                 |                 | 1000 - 1800                | 1801 - 3200                | 3201 - 5000                |                            |   |
| SECEUR® VISION" 9000<br>See-Through Roller Grille<br>55/69% Vision                            | Min width 900mm<br>Max Width 5000mm<br>Max Height 4000mm<br>Max Area 16sqm   |    |                 |                 | 1000 - 1600     | 1601 - 2800                | 2801 - 4000                |                            |                            |   |
| SECEUR®SCREEN 1500<br>Built-On Security Shutters  | Min Width 750mm<br>Max Width 3400mm<br>Max Height 4000mm<br>Max Area 8sqm    |    | 1000 - 1600     | 1601 - 2000     | 2001 - 2800     | 2801 - 4000                |                            |                            |                            |   |
| SECEUR <sup>®</sup> SHIELD <sup>®</sup> 3800<br>Built-On Security Shutters                    | Min Width 750mm<br>Max Width 4000mm<br>Max Height 5000mm<br>Max Area 12sqm   |    | 1000 - 1600     | 1601 - 1900     | 1901 - 2800     | 2801 - 5000                |                            |                            |                            |   |
| SECEUR SHIELD 6000<br>Built-On Security Shutters  | Min Width 900mm<br>Max Width 6000mm<br>Max Height 5000mm<br>Max Area 20sqm   |    |                 |                 | 1000 - 1800     | 1801 - 2800                | 2801 - 4200                | 4201 - 5000                |                            |   |
| SECEUR <sup>®</sup> SHIELD <sup>®</sup> 7500<br>Built-On Security Shutters                    | Min Width 1000mm<br>Max Height 6000mm<br>Max Height 4700mm<br>Max Area 20sqm | ** |                 |                 | *               | 1000 - 2000<br>1000 - 1250 | 2001 - 2800<br>1251 - 2500 | 2801 - 3800<br>2501 - 3400 | 3801 - 4700<br>3401 - 4700 |   |
| SECEUR <sup>®</sup> SHIELD <sup>®</sup> 7700<br>Built-On Security Shutters                    | Min Width 900mm<br>Max Width 5400mm<br>Max Height 4000mm<br>Max Area 16sqm   |    |                 |                 |                 | 1000 - 2000                | 2001 - 2800                | 2801 - 4000                |                            |   |

Figures in red denote reverse coil heights for a given box size. 7500 Slat Standard coil Shutters coil with the concave side facing the barrel. 7500 slats are also able to coil in reverse (convex side facing the barrel) allowing the preferred visible external face to be selected irrespective of shutter fixing position. Reverse coiling increases the coil size - see box size data for a given height.

 Please note the maximum sizes quoted for SeceuroVision 7500 and SeceuroShield 7500 are applicable to the traditional design style shutter with galvanised steel channels and head box. These products are also available as Continental design shutters with aluminium head box and guide rails. The maximum sizes for the Continental style are as follows: Maximum width 6000mm, maximum height 3400mm and maximum area 15sqm

Please note 350mm box will be supplied in three sections rather than two see page 3 for further details.

### MANUAL OVERRIDE

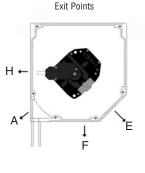
### **MANUAL OVERRIDE FACILITY**

If a manual override is required for use in the event of power failure this must be specified at the time of ordering. There is a choice of technical solutions for the handle mechanism which operates the override, principally dependent upon whether the shutter is installed internally or externally and whether the override is to operate from inside or outside the building. Override locks and the low level external override are available at a surcharge.

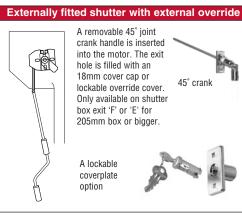
All specifications refer to a 205mm box or larger. When a shutter is installed over an exit which would be the only means of an escape in an emergency it is a legal requirement to install an override on the inside. The latest generation of low level external overrides can now be operated from both the inside and outside to satisfy this legal requirement.

### USE OF MANUAL OVERRIDE SHUTTERS:

Clear instruction must be given to users on the manual override winding direction to raise the shutter. Winding the shutter downwards beyond the normal stop point will damage the shutter.

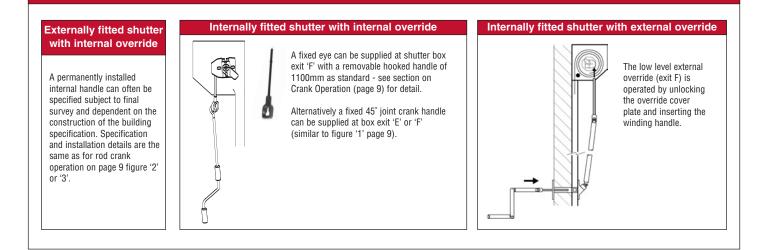


Not all exit options will be possible on certain shutters



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| e Prof | iles S | 6 = Sta                | andard ( | 0 = Op                          | otion                           |  |                                |            |
|--------|--------|------------------------|----------|---------------------------------|---------------------------------|--|--------------------------------|------------|
| s      | HIGH   | H<br>ITY               |          |                                 | Bottom Slat                     | <b>GUIDE PROFILES</b>                    |                                |            |
| H30    |        | UPH140                 | UPH240   | UPH250                          | Standard                        |  |                                | H40/S      |
|        | s      |                        |          |                                 | Steel<br>Reinforced             | 53mm                                     | 50mm                           | ₹<br>1     |
| o s    | 0      |                        |          |                                 | AEG +<br>Reinforcing<br>Angle   | UPH140                                   | UPH240                         | UPH250     |
| o s    | • •    |                        |          |                                 | AEG +<br>Reinforcing<br>Angle   |  | UPH 240                        | UPH 250    |
|        |        |                        |          | s                               | L Section                       |  | \ <u>  [n</u> ]<br> +75mm →    | m L        |
|        |        |                        |          | s                               | AEG/DW                          | BOTTOM SLAT PROFILES<br>STEEL REINFORCED | AEG/X + REINFORCING ANGLE      | AEG/DW     |
|        |        | <b>S</b><br>205<br>box | 350      | 0<br>250/<br>300/<br>350<br>box | AEG/X +<br>Reinforcing<br>Angle |  |                                |            |
| s o    | 0      |                        |          |                                 | AEG                             |  |                                | 3          |
| o s    | 0      |                        |          | _                               | AEG +<br>Reinforcing<br>Angle   |  | 88<br>88<br>11<br>mm<br>9<br>9 | s <b>→</b> |
|        |        | <b>S</b><br>205<br>box |          | 250/<br>300/<br>350<br>box      | AEG/X +<br>Reinforcing<br>Angle | 51mm                                     |                                |            |
|        |        |                        |          |                                 | L Section                       | AEG + RUBBER SEAL                        | AEG + REINFORCING ANGLE        |            |
|        |        |                        |          | s                               | AEG/DW                          |  | ε                              | 22<br>1    |
|        |        |                        |          |                                 |                                 |  |                                |            |
|        |        |                        |          |                                 |                                 |  | 36mm                           | 30         |
|        |        |                        |          |                                 |                                 |  |                                |            |



#### Guide

|     |     | HIGH<br>CUR |                        |                                  |                                 | Bottom Slat                     |
|-----|-----|-------------|------------------------|----------------------------------|---------------------------------|---------------------------------|
| H25 | H30 | - H40/S     | UPH140                 | UPH240                           | UPH250                          | Standard                        |
|     |     | s           |                        |                                  |                                 | Steel<br>Reinforced             |
| 0   | s   | 0           |                        |                                  |                                 | AEG +<br>Reinforcing<br>Angle   |
| 0   | S   | 0           |                        |                                  |                                 | AEG +<br>Reinforcing<br>Angle   |
|     |     |             |                        |                                  | s                               | L Section                       |
|     |     |             |                        |                                  | s                               | AEG/DW                          |
|     |     |             | <b>S</b><br>205<br>box | \$<br>250/<br>300/<br>350<br>box | 0<br>250/<br>300/<br>350<br>box | AEG/X +<br>Reinforcing<br>Angle |
| s   | 0   | 0           |                        |                                  |                                 | AEG                             |
| 0   | s   | 0           |                        |                                  |                                 | AEG +<br>Reinforcing<br>Angle   |
|     |     |             | <b>S</b><br>205<br>box | \$<br>250/<br>300/<br>350<br>box | 0<br>250/<br>300/<br>350<br>box | AEG/X +<br>Reinforcing<br>Angle |
|     |     |             |                        |                                  |                                 | L Section                       |

# Built-On Shutters - Spring Assisted

|  |  |               |   |                |                 |                 |                            |                            | 💌 a         |   |
|--|--|---------------|---|----------------|-----------------|-----------------|----------------------------|----------------------------|-------------|---|
| 2800 mm is our maximum<br>recommended height for<br>spring assisted shutters<br>to ensure safe and<br>appropriate operation. | The maximum area<br>maximum width x n<br>against the maximu<br>Concave<br>Face | m area limit. | t design is NOT a product of<br>ht. Please check your shutter size<br>Sizing Data 🛨 | Box Profile (a | ) For Shutter H | eights includin | g box (mm)                 | a                          | a           |   |
|  | Tace   | Tace          |   | 165mm          | 180mm           | 205mm           | 250mm                      | 300mm                      | 350mm       |   |
| SECEUR VISION<br>See-Through Shutters<br>Punched/Glazed 45% Vision   | 3800   | l             | Min Width 755mm<br>Max Width 3000mm<br>Max Area 9sqm                                | 1000 - 1600    | 1601 - 1900     | 1901 - 2800     |                            |                            |             |   |
| SECEUR <sup>®</sup> VISION <sup>™</sup><br>See-Through Shutters<br>Perforated 17% Vision                                     | 3800   |               | Min Width 755mm<br>Max Width 3000mm<br>Max Area 9sqm                                | 1000 - 1600    | 1601 - 1900     | 1901 - 2800     |                            |                            |             |   |
| SECEUR <sup>®</sup> VISION <sup>™</sup><br>See-Through Shutters<br>Perforated 25% Vision                                     | 7500   |               | Min Width 900mm<br>Max Width 4000mm<br>Max Area 10sqm                               |                |                 | *               | 1000 - 2000<br>1000 - 1200 | 2001 - 2800<br>1201 - 2500 | 2501 - 2800 | • |
| SECEUR <sup>®</sup> VISION <sup>®</sup><br>See-Through Shutters<br>Punched & Glazed 62% Visi                                 | 8000   | 4             | Min Width 755mm<br>Max Width 4000mm<br>Max Area 8sqm                                |                |                 |                 | 1000 - 1800                | 1810 - 2800                |             |   |
| SECEUR <sup>®</sup> VISION <sup>™</sup><br>See-Through Roller Grille<br>55/69% Vision  | 9000   |               | Min Width 755mm<br>Max Width 4600mm<br>Max Area 8sqm                                |                |                 | 1000 - 1600     | 1610 - 2800                |                            |             |   |
| SECEUR <sup>®</sup> SCREEN<br>Built-On Security Shutters   | 1500   |               | Min Width 755mm<br>Max Width 3400mm<br>Max Area 6sqm                                | 800 - 1600     | 1601 - 2000     | 2001 - 2800     |                            |                            |             |   |
| SECEUR SHIELD  | 3800   |               | Min Width 755mm<br>Max Width 4000mm<br>Max Area 7sqm                                | 1000 - 1600    | 1601 - 1900     | 1901 - 2800     |                            |                            |             |   |
| SECEUR <sup>®</sup> SHIELD <sup>®</sup><br>Built-On Security Shutters  | 6000   | ĺ             | Min Width 755mm<br>Max Width 4000mm<br>Max Area 8sqm                                |                |                 | 1000 - 1800     | 1801 - 2800                |                            |             |   |
| SECEUR SHIELD<br>Built-On Security Shutters  | 7500   |               | Min Width 900mm<br>Max Width 4000mm<br>Max Area 12sqm                               |                |                 | *               | 1000 - 2000<br>1000 - 1200 | 2001 - 2800<br>1201 - 2500 | 2501 - 2800 | • |
| SECEUR SHIELD Built-On Security Shutters   | 7700   |               | Min Width 755mm<br>Max Width 4000mm<br>Max Area 12sqm                               |                |                 |                 | 1000 - 2000                | 2001 - 2800                |             |   |

Heights marked with a red dot are for boxes able to accommodate larger heights but are purposely restricted by our recommendation.

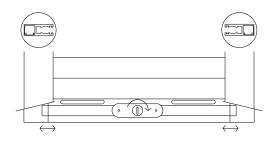
Figures in red denote reverse coil heights for a given box size. 7500 Slat Standard coil Shutters coil with the concave side facing the barrel. 7500 slats are <u>also</u> able to coil in reverse (convex side facing the barrel) allowing the preferred visible external face to be selected irrespective of shutter fixing position. Reverse coiling increases the coil size - see box size data for a given height.

Please note 350mm box will be supplied in three sections rather than two see page 3 for further details.

### LOCKING

#### **Bottom slat key lock**

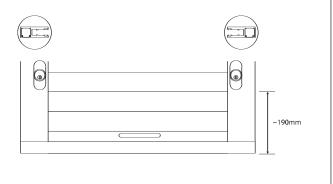
Spring loaded shutters include a transverse lock which is operable from both sides, fitted into the bottom slat as standard. The central key throws out locking bars which locate into the box section of the guide rail at each side. The shutter must be held in the closed position against the springing to engage the locks. Handles are supplied to assist operation - one or two are supplied dependent upon shutter size. Non locking shoot bolts are available as an option.



## 

#### **Bullet locks**

Bullet locks are available. The locks go through the the guide and slat. Shown is an elevation from outside with the shutter closing down behind optional angle. Bullet locks are only available with H40S, UPH 240 and UPH 250 guide profiles.



| Guide | Profil | les S | 6 = Sta                | andard | 0 = 0                           | Option |                                 |                       |                              |           |
|-------|--------|-------|------------------------|--------|---------------------------------|--------|---------------------------------|-----------------------|------------------------------|-----------|
|       | SE     | HIGH  | l<br>ITV               |        |                                 |        | Bottom Slat                     | GUIDE PROFILES<br>H25 | H30                          | H40/S     |
| CZU   |        |       | UPH140                 | UPH240 | UPH250                          |        | Standard                        | H25                   |                              |           |
| c     | o s    | 0     |                        |        |                                 |        | AEG +<br>Reinforcing<br>Angle   | 53mm                  | 60mm '                       |           |
| c     | o s    | 0     |                        |        |                                 |        | AEG +<br>Reinforcing<br>Angle   |                       |                              |           |
|       |        |       |                        |        | s                               |        | L Section                       |                       | EUPH 240                     | UPH 250   |
|       |        |       |                        |        | S                               |        | AEG/DW                          | 60mm                  |                              | 90mm →1   |
|       |        |       | <b>S</b><br>205<br>box | 350    | 0<br>250/<br>300/<br>350<br>box |        | AEG/X +<br>Reinforcing<br>Angle | STEEL REINFORCED      | AEG/X + REINFORCING ANGLE    | AEG/DW    |
| 9     | 5 0    | 0     |                        |        |                                 |        | AEG                             |                       |                              |           |
| 9     | 5 0    | 0     |                        |        |                                 |        | AEG +<br>Reinforcing<br>Angle   | 8<br>8                | 88mm<br>mm88<br>93mm<br>93mm | 77        |
|       |        |       | <b>S</b><br>205<br>box | 300/   | 0<br>250/<br>300/<br>350<br>box |        | AEG/X +<br>Reinforcing<br>Angle | 51mm                  |                              |           |
|       |        |       |                        |        | s                               |        | L Section                       | AEG + RUBBER SEAL     | 36mm                         | L SECTION |
|       |        |       |                        |        | S                               |        | AEG/DW                          | 8                     |                              | T T       |
|       |        |       |                        |        |                                 |        |                                 | 8                     | June 199                     | 50<br>    |

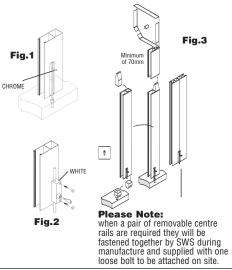
### **REMOVABLE GUIDES**

For large spans and corners typically found on bars and counters



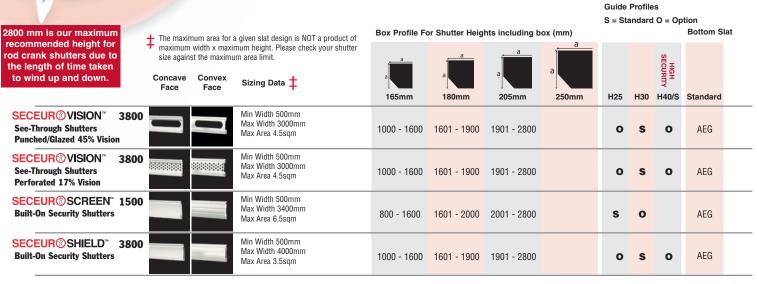
#### **Removable Centre Rails**

Appropriate on bar and servery applications with 2+ shutters where the opening needs to be clear. The top of each removable guide rail locates into a matching 70mm length which is permanently fixed to its end plate during manufacture (Fig.3). The bottom of each rail is secured using a chrome bolt which is supplied loose along with a recessed 40mm socket and dust cap (fig.1) or by using a white lockable bolt (fig.2). One bolt per pair of removable guide rails. Shutters with removable guide rails and a curtain weight of 40kg or more will be supplied with steel end plates.

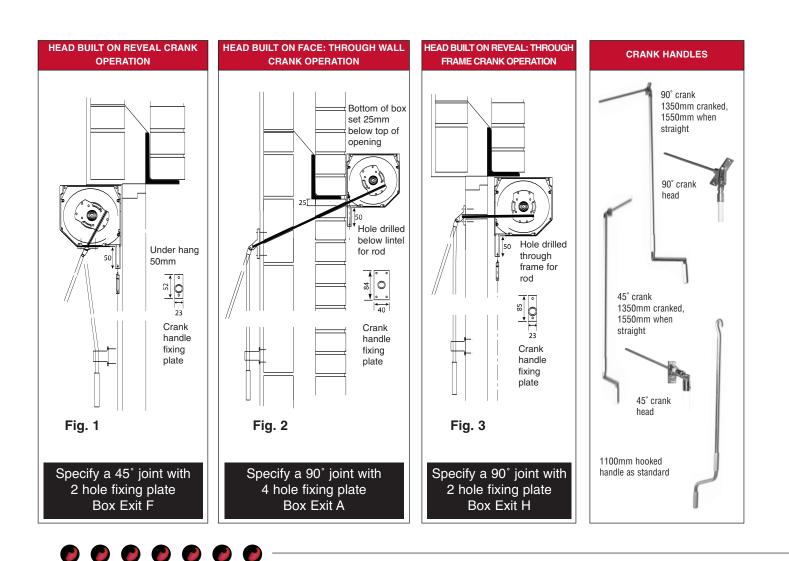


# Built-On Shutters - Rod Crank Operation

See previous section for guide and bottom slat details



Heights marked with a red dot are for boxes able to accommodate larger heights but are restricted by the operating speed of the gearing to 2800mm



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# Built-On Shutters - Belt Operation

See previous section for guide and bottom slat details

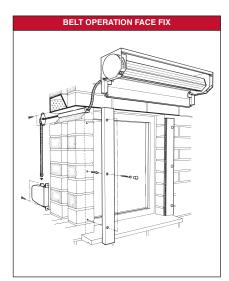
Guide Profiles

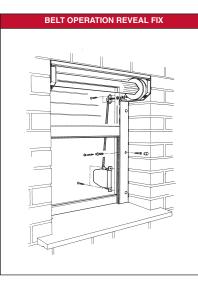
| + The maximum area for  | r a given slat design | is NOT a proc  | luct of   | Box Profile For Shutter | Heights includ | S = St      | andard | tion Bot | tom Slat                  |          |  |
|---|-----------------------|----------------|---|-------------------------|----------------|-------------|--------|----------|---------------------------|----------|--|
| maximum width x max<br>against the maximum  |                       | e check your s | shutter size  | <u>a</u>                | a              | , <u>a</u>  |        |          | SE H                      |          |  |
| SWIVEL WINDER   | Concave<br>Face       | Convex<br>Face | Sizing Data ᄇ   | a<br>165mm              | a<br>180mm     | a<br>205mm  | H25    | H30      | HIGH<br>SECURITY<br>H40/S | Standard |  |
| SECEUR <sup>®</sup> VISION <sup>™</sup> 34<br>See-Through Shutters<br>Punched/Glazed 45% Vision | 800                   | 1              | Min width 500mm<br>Max width 1900mm<br>Max height 1800mm<br>Max Area 2.3sqm | 1000 - 1600             | 1601 - 1800    | •           | ο      | s        | 0                         | AEG      |  |
| SECEUR <sup>®</sup> VISION <sup>®</sup> 38<br>See-Through Shutters<br>Perforated 17% Vision     | 800                   |                | Min width 500mm<br>Max width 1900mm<br>Max height 1800mm<br>Max Area 2.3sqm | 1000 - 1600             | 1601 - 1800    | •           | ο      | S        | 0                         | AEG      |  |
| SECEUR <sup>®</sup> SCREEN <sup>®</sup> 19<br>Built-On Security Shutters                        | 500                   |                | Min width 500mm<br>Max width 3400mm<br>Max height 2800mm<br>Max Area 3.3sqm | 1000 - 1600             | 1001 - 2000    | 2001 - 2800 | s      | 0        |                           | AEG      |  |
| SECEUR <sup>®</sup> SHIELD <sup>®</sup> 34<br>Built-On Security Shutters                        | 800                   |                | Min width 500mm<br>Max width 1900mm<br>Max height 1800mm<br>Max Area 2sqm   | 1000 - 1600             | 1601 - 1800    | •           | 0      | S        | 0                         | AEG      |  |

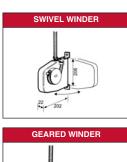
### **GEARED WINDER**

| SECEUR <sup>®</sup> VISION <sup>®</sup><br>See-Through Shutters<br>Punched/Glazed 45% Visio | <b>3800</b><br>n | Ū | Min width 500mm<br>Max width 2800mm<br>Max height 2800mm<br>Max Area 3.8sqm | 1000 - 1600 | 1601 - 1900 | 1901 - 2800 | ο | s | ο | AEG |  |
|---|------------------|---|---|-------------|-------------|-------------|---|---|---|-----|--|
| SECEUR <sup>®</sup> VISION <sup>™</sup><br>See-Through Shutters<br>Perforated 17% Vision    | 3800             |   | Min width 500mm<br>Max width 2800mm<br>Max height 2800mm<br>Max Area 3.8sqm | 1000 - 1600 | 1601 - 1900 | 1901 - 2800 | ο | s | ο | AEG |  |
| SECEUR <sup>®</sup> SCREEN <sup>®</sup><br>Built-On Security Shutters                       |                  |   | Min width 500mm<br>Max width 3400mm<br>Max height 2800mm<br>Max Area 5.5sqm | 800 - 1600  | 1601 - 2000 | 2010 - 2800 | s | 0 |   | AEG |  |
| SECEUR SHIELD<br>Built-On Security Shutters   | 3800             |   | Min Width 500mm<br>Max Width 2800mm<br>Max Height 2800mm<br>Max Area 3sqm   | 1000 - 1600 | 1601 - 1900 | 1901 - 2800 | 0 | s | 0 | AEG |  |

Heights marked with a red dot are for boxes able to accommodate larger heights but are restricted by shutter weight.

















SWS UK is a leading manufacturer of physical security products and has developed the comprehensive Seceuro range of shutters, see-through shutters, retractable gates and removable bars to offer more effective protection for businesses and homes.

Established in 1985 and with a wealth of experience, SWS UK is based in modern, purpose-built premises located near Lancaster and employs more than 170 people.

A cornerstone of SWS's reputation is its national network of specialist distributors. Working in partnership to promote, supply, install and support, distributors provide a trusted, experienced and local source for the SWS product range.

SWS UK is registered to ISO 9002 by the Loss Prevention Certification Board and operates a programme of continuous improvement to its products. The company continues to invest in research and development with the consistent aim of producing physical security products which offer uncompromising protection designed to meet the demands of the modern lifestyle and workplace.







| Commercial                              | Your Specialist Distributor: |
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| P I I I I I I I I I I I I I I I I I I I |                              |
| Retail                                  |                              |
|   |                              |
| Counter & Cabinet                       |                              |
| Domestic                                |                              |
|   |                              |
|   |                              |