This method statement accompanies quotations, offers and order deliveries, and should be read in conjunction with such paperwork.
Lintel Security Shutter

Please refer to your quotation for specific contents of your contract pack. Study all instructions prior to commencing work. This statement provides advice on how to build-in Lintel Security Shutters and accompanying accessories.

General
The security shutter of the lintel security shutter descends external in front of the window or door frame, because the shutter runs in channels that are enveloped within the cavity, it requires that the window or door frame is set back a minimum of 10mm from the inside step of the channel, this includes any protrusions or ironmongery. This may need to increase dependent upon size and type of shutter. Please refer to any site specific drawing.

Off-loading and storage of lintels
SWS UK lintels must be carefully off loaded in accordance with Health & Safety procedures. Lintels are normally delivered palletised, and will require site lifting equipment for off-loading. Lintels are a supply item only and are the responsibility of the contractor; they must be stored on a level surface to avoid damage.

The Cill Closer
Construct or install the cill to close the cavity at the base of each opening. Incorporate a DPC to ensure your design complies with relevant Building Regulations.

Electrical Wiring
Please refer to the ‘electrical installation instructions’ pack.

Internal Finish
The open back of the lintel provides the access point for shutter servicing and maintenance. Refer to page 6.

Shutter Commissioning
Commissioning of the shutters will be complete once the curtains have been installed. The site representative will be asked to inspect and sign off the completed installation, once this has been established any further work requested will be in addition to the original order.

Contractors Obligations

- Maximum tolerance of the guides is 5mm from top of aperture to bottom vertically.
- Guides must be built 3mm off the internal face of the brick work
- Once the guides are built into position please notify your distributor to arrange a measuring date
- On the date of measuring the openings must be accessible, if the measurements cannot be taken a new date must be set and a call out charge will be incurred.
- Recommended plaster bead or timber picture frame to house the back plate
- Black protective tape on the guides should not be removed, the installation engineer will remove.
- No obstructions within 500mm back from the shutter box or 100mm left or right of the opening at shutter box height. This may result in the inability to install the roller shutter and hinder future access.
- Shutters are not to be used at all until commissioning is complete and signed off as such.
- A protective cap is placed on the limit switches of the shutter motor. After commissioning the cap is not to be removed, as this will void the warranty(applicable to Somfy motors only.)
- SDP has no involvement in wiring of the shutters. This is to be carried out via the contractor. Any excess wire cable to be pinned inside lintel by others.
- In the case of supplying a manual override, the contractor must fit the override after the back panel is fitted (see page 6)
- The back plate must be removable / accessible without damaging the wall finish. SWS UK will not accept responsibility for damage caused removing this panel during any form of maintenance / service, or commissioning due to poor access panel installation.
- The void at the bottom of the guide to be filled with weather sealant by others to cill level.
- Shutter operational use must be specified in writing (i.e. door, window, fire exit)
Linframe Guide / Cavity Closer Method Statement

1) For each opening the closers are delivered unassembled.
2) Do not remove the protective wrapping until the closers are ready to be built in.
3) Construct the ‘Linframe’ as shown in the image below.
4) It is vital that a screw fixings are placed through the top brace
5) The top of each closer section is clearly marked TOP under No circumstance should the projecting guide rail be cut or removed as this acts as a guide when positioning the lintel.
6) The height of each cavity closer is cut to the exact window height with 50mm extension for the location of the lintel.
**Lintel Method statement**

1) Erect the lintel and position above the cavity closers. The lintel must be centrally positioned over the aperture, to make sure there is equal distance each side of the cavity closer. Failure to do so will result in the shutter (curtain) malfunction.

2) The slot on the underside of the lintel must be aligned with the shutter guide up stand.

The 50mm upstand on the guide must be at the top. **It must NEVER be removed.** Removal will require new guides to be supplied and installed at additional cost.

Must must bet set back from the outer skin by a minimum of 4mm to allow the thickness of the lintel. Failing to do this may result in a setp in the otter skin.

Equal space between guide and lintel end plates

Guide must locate into lintel slot.
**Late guide Installation**
Guides and be installed after brick and block-work has been erected. Two ways of achieving this is to either leave mortar joint void at the coursing, then carefully locate all the ties in the joints before point in the ties with the guides.

The second method is to apply an adhesive appropriate to the the wall material.

**Retro guide Installation**
Guides and lintel can be installed on an existing building

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### Support during Installation

Lintels must be supported during construction to counter any rotational forces which may occur. Props should only be removed when full restraint is achieved. It is also important to ensure brick/block work is built against the vertical web of the lintel to limit these forces. Where wall ties have been provided on the outer lintel face to secure brickwork, no more than 3 courses of brickwork are to be built on the external toe without loading the inner toe.

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*Please note that if any part of the lintel is damaged before installation, SWS UK must be contacted immediately, we will not accept responsibility for any repercussions this might cause.*
Fixing window and door heads

It is permissible to fix window and door frames to the underside of the lintel with caution. This action should be carried out prior to shutter installation, any excess fixing within the housing should be cut flush.

Manual Operation / Override

The winding mechanism is to be installed by others. Cut hex bar to suit depth of box including back panel, file the end of the hex bar down, to ease installation. Locate hex bar through small hole at the end of the axle. Drill a hole in back panel in line with hex hole & screw bracket to back panel.

Please check the small hole position at the end of the axle, as the position of the override assembly can vary dependent upon the motor position, left or right hand side, top or bottom.
**Backing Boards**

- Backing boards are made the same size as the lintel box unless requested otherwise.
- Backing boards can come in more than one length per opening due to width and motor access requirements.

Fixings can be made into the lintel internal flanges; screws must not protrude more than 20mm.

It may be necessary to pack the lintel flanges to align the backing board with internal face.

If a compressive seal is provided, it is recommended to fix it to the lintel, after cleaning the lintel surface.

Fixing of the access panel must be accessible for future maintenance, this can be achieved in many ways, one such method is utilizing cups and screws.

As part of the ease of access, avoid sealants around the access panel.
**Generic lintel section**

- **End Section (Curtain in 'open' position)**
  - HEAVY DUTY EXTRUDED ALUMINUM SHUTTER lath supplied by SWS UK
  - MINIMUM CLEARANCE From any protrusion off window or door
  - SWS UK CAVITY CLOSER AND SHUTTER GUIDE. EXTRUDED ALUMINUM CLOSER WITH EXTRUDED A1 PVCU THERMAL BREAK
  - ALL DIMENSIONS IN mm NOT TO SCALE

- **Outside**
  - INFILL WITH MASTIC SEAL LEVEL WITH CILL (By Others)
  - NON COMBUSTIBLE RIGID PVCU CAVITY CLOSER / BARRIER TO EXTEND UNDER GUIDES
  - WINDOW LINE

- **Back Board to be FIRE RATED & MIN SIZE EQUALLY SPACED FROM CENTER. (If required at additional Cost)**

- **Lintel (Design Dependant on Loadings)**

- **Title:**

- **Stock No.:**

- **Rev.:**

- **Drawn By:**

- **Date:**

- **Sig.:**

- **Rev. Date:**

- **Revision:**

- **Dwg No.:**

- **Scale:**

- **Material:**

- **Finish:**

- **THIS DRAWING IS THE PROPERTY OF SWS**