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## Specification Sheet



### CD77 Built - On Shutters

#### SLATS

- Description** : CD77 is a double skin foam filled aluminium non-vented slat.  
 : The CD77 slat can be mixed with the CD800 punched slat that has apertures of 149mm x 55mm, which is also available with a polycarbonate insert to offer a partial vision section to the shutter.
- Common use** : High security domestic window shutters/garage doors, medium security commercial and office applications.
- Dimensions** : Nominally 78.5mm high x 19mm thick.
- Weight** : 5kg per square metre.
- Stock colours** : White, brown, light beige, burgundy, fir green, navy blue, black and medium oak woodgrain  
 Bottom slat - white, dark brown.

#### SHUTTERBOX

- Construction** : Roll formed aluminium in two sections; top and bottom boxes.  
 : Bottom box removable for installation and maintenance and chamfered at 45°.
- Box ends** : The shutterbox is assembled on die cast aluminium endplates.
- Box sizes** : Clear opening height (to underside of box): 1550mm, box size 250mm  
 2700mm, box size 300mm
- Stock colours** : White, dark brown.

#### GUIDE RAILS - REF.: UPH 250

- Construction** : Extruded aluminium with an integral box section for reinforcement and to facilitate fixing.  
 : High density 4mm pile brush seals for quiet and smooth operation.
- Dimensions** : 90mm wide x 34mm deep.
- Stock Colours** : White, dark brown.

#### INSTALLATION

- Guide Rails** : 3 fixings for guide rails up to 1000mm in length, 5 fixings for guide rails up to 2000mm in length etc.
- Shutterbox** : The shutterbox is fixed at each end and 1000mm centres if over 2000mm wide.
- Finishing** : External shutters require a silicone seal between the shutter and the wall along the top of the box and down the side of the guide rails.

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**OPERATIONS FOR CD77 BUILT-ON SHUTTERS**

The options priced are shown on your quotation which also shows the method of operation we have included. This list shows possible options which would incur different costs.

**SPRING LOADED**

A counterbalance spring in the axle ensures controlled raising and lowering. An espagnolette keylock or shootbolts lock into the guide rails and are usually incorporated in the bottom slat. Final adjustment of the springloading after installation is always required.

**ELECTRIC** - mandatory on shutters above 25kg. (N.B. minimum shutter width 750mm)

Electric operation is required on larger shutters due to weight but is optional on smaller shutters.

<b>OPERATION</b>	:	By tubular motor inside the axle.
<b>MOTORS</b>	:	Draw 240 volts and 0.5 - 2.5 amps dependant upon the shutter size.
	:	Complete with integral limit switches and thermal cut-out to prevent overheating.
	:	Complete with 2 metres of cable for connection.
<b>CONTROL</b>	:	By momentary switch which must be held until the shutter reaches the desired position.

**Provision of a 13 amp fused spur is required for installation. A manual override should be priced and ordered separately for shutters which are to be installed on exit doorways to permit operation in the event of a power failure.**