

INSULATED ROLLER SHUTTER

DESCRIPTION

An insulated steel roller shutter door is ideal as an alternative where Sectional Overhead door track arrangements cannot be accommodated but heat retention is still a factor. Available in electrical operation only, this type of door is also widely used on spray ovens in the automotive and industrial sector.

CURTAIN

The shutter curtain is constructed from ribbed galvanised steel sections designed to provide 85mm deep, twin skinned hollow interlocking laths with a thermal in-fill material. The heat loss / 'U' value for the lath is approximately 0.69 W/m²K. As standard, hardwearing nylon endlocks are riveted to both ends of each lath to prevent lateral movement.

Options

In most cases, the following lath options are available for either or both skins: Colorcoat HP200 plastisol coating; polyester powder coating; aluminium and stainless steel. Purpose designed double glazed vision panel(s) are also available.

CURTAIN GUIDES

The vertical curtain guides are constructed from rolled galvanised steel channels mounted on continuous mild steel angles for fixing to the jambs. The channel is designed to accommodate either the standard nylon endlock or cast aluminium security/wind anchor endlocks.

BOTTOM RAIL

The bottom lath of the shutter is terminated with a steel 'U' channel and retainer with rubber weather seal.

BRUSH SEALS

Specially designed vertical brush strips are fitted to both the inner and outer face of the guides. A nylon brush strip is provided to bridge the gap between the soffit and shutter curtain.

BARREL ASSEMBLY

The barrel, which is usually fixed behind the lintel, is constructed from mild steel tube of sufficient diameter and wall thickness to withstand deflection and twist during operation. Counter balancing is achieved by helical torsion springs mounted on a steel shaft incorporated within the barrel and greased on assembly. Spring and shaft supports are cast iron.

SUPPORTING BRACKETS

Supporting brackets are constructed from mild steel plate mounted on mild steel angle cleats for fixing to the lintel and are of appropriate size and thickness for the weight and dimensions of the door. Cast iron or welded steel cups are fixed to the end plates to receive the barrel's centre shaft.

HOOD, FASCIA AND SOFFIT

A galvanised sheet steel hood can be supplied to enclose the barrel assembly. Alternatively a sheet steel fascia can be supplied to fill the soffit. Other finishes may be available to match the curtain.



Insulated Roller Shutter Door



Curtain & Bottom Rail



Wind Anchor Guides

LOCKING ARRANGEMENTS

As standard, electrically operated doors are secured through the motor drive gearbox when not in operation.

Options

Guide locks, high security ground locks or shoot bolts to receive a customer's own padlock can be fitted for additional security. Electrical interlock devices are available to prevent electrical operation whilst locks are still in place.

ELECTRICAL OPERATION

Electrical operation is by means of a 415v three phase flange mounted motor with integral limit switches to control travel of the shutter curtain and open/close/stop controlled from a push button starter panel. A manual override device allows operation in the event of a power failure.

Options

A variety of automatic, remote control and safety facilities are available. 240v single phase operation is also available depending on size of door.