



DOORTEK
SOLUTIONS

MANUAL OPERATION AND SINGLE SKIN ROLLER SHUTTER DOORS

Make Doortek Solutions your first choice for supply and installation of your individually made-to-measure high performance roller shutter doors.

We offer the complete service, from design, supply and installation, to on-going service and emergency repairs. Quality is guaranteed with all of our industrial products CE marked and given a wind loading classification. Our supply and installation teams are highly trained and experienced to ensure that our doors meet the highest standards expected by our customers.

Our clients include all types of doors fitted to:

- Agricultural Units
- Industrial units
- Warehouses
- Loading bays
- Public buildings
- Utilities and factories
- Private outbuildings
- Aircraft hangars
- Supermarkets
- Retail premises



Doortek Solutions' Roller Shutters combine strength, durability, versatility and cost effectiveness. They are hard wearing, practical to use and designed for extensive use. All of our doors are individually designed and supplied to suit the specific opening and are suitable for all types of applications.

SHUTTER CONSTRUCTION

Guides

Formed from rolled steel, vertical guides are specified according to the size of opening and wind loading. They are supplied with suitable angles for fixing to the structure.

End plates

Steel end plates of appropriate thickness to accept the barrel and curtain assembly are complete with either galvanised steel tube motor brackets or high quality two-bolt flanged bearings for direct drive relative to the door size. End plates are supplied with angles for fixing to the structure.

Doortek Solutions

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Wind Loads

All of our door curtains have been tested to BS EN 1341-1 and fully comply. All testing was completed in conjunction with the supporting wind loading standards BS EN 12424:2000 and BS EN 12444:2001.

Curtains

Shutter curtains are constructed from either, traditional steel laths, extruded aluminium, steel insulated laths or tube and link grilles. Please see details of our Insulated Roller Shutters for information on different types of lath. All curtains are securely held using an end lock to suit the curtain configuration which prevents lateral movement. Steel laths are available with perforations and steel and aluminium laths are available with punched slots, with an option for glazing. All Doortek Solutions shutter curtains are complete with a heavy duty 'T' section or mill finished extruded aluminium bottom rail.

Manual Push Up (self coiling)

A low cost option, no electrical supply needed and ideal for confined areas. Maximum size 3000 x 3000.

The roller assembly is constructed from 9 swg (3mm) galvanised steel tube. High quality helically wound counter balance springs, mounted inside the tube allow operators to push-up and pull-down the curtain smoothly and effortlessly. The tube assembly is hung from end plates via galvanised cups.

Push-up operation is suitable for smaller openings where frequency of operation is limited and is typically used on smaller openings such as doorways, windows, serving hatches or bars. We recommend that shutters exceeding 2500mm x 2500mm should be hand chain or electrically operated.

As standard, Doortek Solutions fit bullet locks to manual push-up doors – other locking options are available on request.

Hand Chain Drive

A low cost option, no electrical supply needed. Manual operation is by means of a continuous galvanised haul chain through single or double reduction gearing.

The barrel is constructed from high quality steel tube of varying diameters and wall thickness. Exact dimensions are dependent upon overall door width and height. The barrel also contains a bright steel shaft with a minimum diameter of 25mm up to a maximum of 80mm. The counter balance spring arrangement is assembled by using a combination of machined blocks and bearings. The barrel is fully supported on mild steel cups that are securely attached to the end plate assembly.

As standard we fit a chain keep to hand chain operated shutter doors but other locking devices are available on request.

We strongly recommend that shutters exceeding 36 square metres should be electrically operated.

MANUAL PUSH UP

HEAD SPACE REQUIREMENTS			
OPENING HEIGHT	A	B	C
mm	mm	mm	mm
Up to 2000	250	250	50
Up to 3000	300	300	50

SPACE REQUIREMENTS ON PLAN		
OPENING WIDTH	D	E
mm	mm	mm
Up to 3000	75	75

HAND CHAIN DRIVE

HEAD SPACE REQUIREMENTS			
OPENING HEIGHT	A	B	C
mm	mm	mm	mm
Up to 3500	400	400	50
Up to 4500	450	500	50
Up to 6500	550	550	50

SPACE REQUIREMENTS ON PLAN		
OPENING WIDTH	D	E
mm	mm	mm
Up to 6500	100	175

A = End Plate Width

B = End Plate Depth

C = Opening Height to bottom of bracket

D = Side Room

E = Side Room