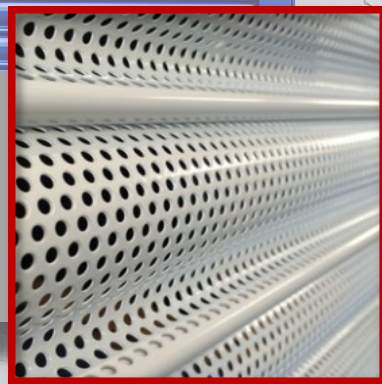


DNA

PRODUCTS

Roller Shutter Brochure



Tube Op Roller Shutters



The DNA Products Tube Op Roller Shutter is ideal when there is restricted space for installation as the motor is inside the barrel. The tube motor is best suited to Roller Shutters used as a security measure when the number of openings per day is low.

It is operated via a 240V single phase tubular motor drive system. Emergency operation is via a manual hand crank fitted as standard.

The curtain is made up of 75 mm curved galvanized steel interlocking laths with hard wearing nylon or steel end locks.

It is finished with an inverted 'T' section galvanized bottom rail.

Applications

Suitable for internal, external or reveal fit. A maximum size of 29m² applies to tubular motor shutters, Direct Drive Roller Shutters can be offered for larger openings.

Motor Details

Electrically operated rolling shutter is operated via a 240V single phase tubular motor drive system. Emergency operation is via a manual hand crank fitted as standard.

Curtain

77 mm curved galvanized steel interlocking laths with hard wearing nylon or steel end locks. The curtain is finished with an inverted 'T' section galvanized bottom rail.

Finish

Galvanised finish as standard. Optional plastisol or powder coated finishes are available on request.



Side Guides

65 mm x 32 mm x 2.5 mm straight galvanized channel sections. Formed end plates are attached to the top of the guide angles.

Barrel

Constructed from high quality mild steel tube with an integral motor with supporting shafts.

Roller Barrel Mounting

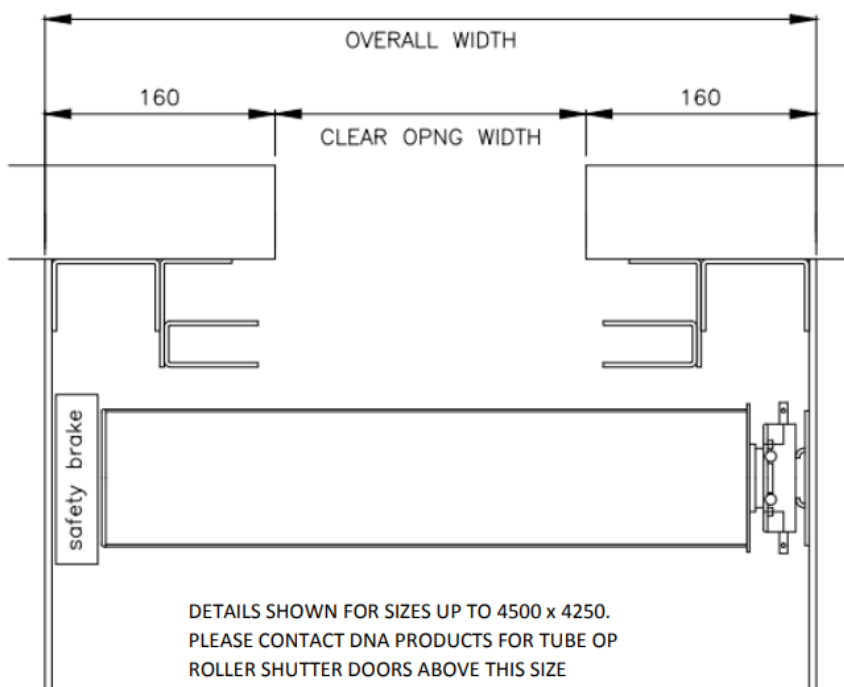
Gantry brackets are fabricated from steel angle. Channel and steel flat bar. The motor and bearings sit in position with the brackets.

Safety

In accordance with current legislation, doors come with integrated safety brake to prevent door from falling in event of motor failure. CE compliant to all applicable directives and regulations.

Controls

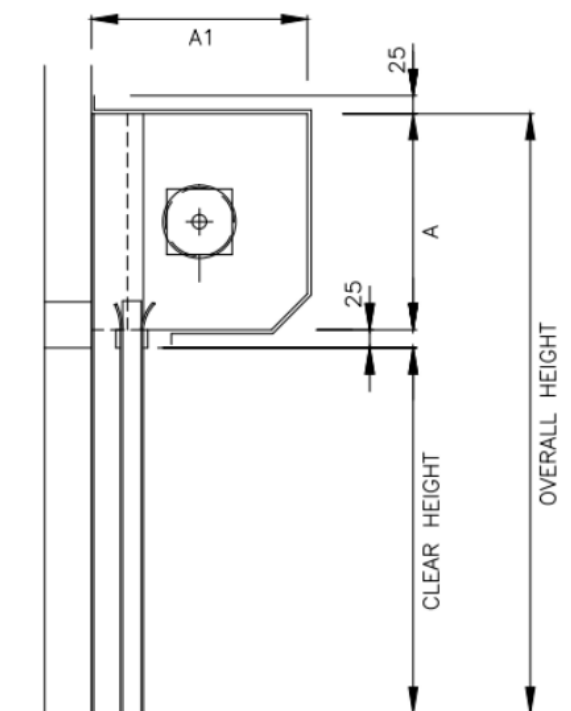
Wall mounted key switch or rocker switch.



DETAILS SHOWN FOR SIZES UP TO 4500 x 4250.
PLEASE CONTACT DNA PRODUCTS FOR TUBE OP
ROLLER SHUTTER DOORS ABOVE THIS SIZE

CLEAR HEIGHT (NORMAL COIL)	DIMENSION "A"	DIMENSION "A1"
0 - 2249	300	300
2250 - 3499	350	350
3500 - 4250	400	400

TOLERANCE = +/- 5mm



Direct Drive Roller Shutters

The DNA Products Direct Drive Roller Shutter requires no drive chain; no barrel tensioning and no isolator. This means that installation is much easier and is also extremely safe.

DNA Products Direct Drive Roller Shutters are pre-wired for easy installation and include a 3 phase E & N inverter plug allowing polarity to be changed easily and safely.

A 16-amp socket must be provided within 1 metre of the motor drive side of the door 1500 mm from finished floor level.

Detailed installation instructions are available upon request.

Design and Installation

Doors supplied up to 6500 mm W x 6500 mm H, flag guide set up as standard.

High quality bearings - the shaft does not run in direct contact with rough castings.

Our Direct Drive Roller Shutters are pre-wired for easy installation and include a 1 Ph 3 pin CEE plug or 3 Ph 5 pin CEE plug. A 16-amp socket must be provided within 1 metre of the motor drive side of the door 1500 mm from finished floor level.



Motor Details

Industrial 3 Ph 230/400v or 1 Ph 230v motor.

Motor protection class: IP65

Cycles per hour: 8 - 20 (dependant on shutter size & phase).

Emergency hand chain (operable from floor level).

Fully pre-wired control panel c/w open/stop/close push button control.

Low level 24-volt control.

Auto close function (optional).

Photocell connections (optional).

Impulse and deadman operation as standard.

Safety edge connections without additional relay (optional).

Radio control with timed return (optional).



Wicket Gate

Application

The DNA Products Standard Wicket Gate can be fitted to your existing Roller Shutter and is very easy to use. If there are no other access points nearby the Wicket Gate will allow pedestrians a more convenient method of entering without having to open your Roller Shutter Door. This can save time and money and prolong the life of your Roller Shutter in the process.

When installed within a Roller Shutter Door, the Wicket Gate does not roll up as it has a solid frame. This means that you must open the Wicket Gate frame back in order for the Roller Shutter to operate.

Our Wicket Gates can be installed on the left or right of the Roller Shutter Door. Each unit comes complete with a safe and secure mortice locking system.



Our wicket gates are manufactured from quality precision profiled steel sections. The frame is welded and painted with a high-quality grey paint.

The inner outward opening leaf is infilled with 75mm galvanised interlocking lath to match the roller shutter curtain and is fitted with a Yale cylinder and rim latch.

The outer frame comes with 2 heavy duty hinges and pins for attachment to the wall or door guide.

Insulated Roller Shutters

Applications

Ideal for commercial and industrial sites where improved insulation is required from a shutter capable of protecting a large door opening. Can be used as a fast action door with the addition of a frequency inverter motor.

Roller Curtain

Curtain is constructed from double skinned 95mm galvanised steel slat with polyurethane insulating core.

Slat U value

1.1 W/m² K

Weight per m²

12.8 kg Max

Casing

Galvanised steel as standard.



Bottom Rail

An aluminium bottom lath complete with bottom weather seal ensures the door closes completely, thus eliminating draughts.

Guide channels

Galvanised steel with brush seal.

Operation

Single Phase tubular motor with emergency manual crank handle.

Industrial single or 3 phase direct drive motor with emergency manual chain override.

Maximum sizes

Tube motor:

Max width 7000mm -> Max area 20m²

Direct drive industrial motor:

Max width 8000mm -> Max area 35m²

Seals

Bottom rubber seal and top brush seal.
The guides come complete with neoprene brush seals mounted to both inner faces of the guide.



Roller Barrel

Mild steel tube with diameter and wall thickness is used to achieve 1:400 deflection to suit each individual contract. The barrel is fitted with discs and shafts, mounted into bearing(s) and the motor.

Roller Barrel Mounting

Gantry brackets are fabricated from steel angle. Channel and steel flat bar. The motor and bearings sit in position with the brackets.

Safety

In accordance with current legislation, doors come with integrated safety brake to prevent door from falling in event of motor failure. CE compliant to all applicable directives and regulations.

Finish options

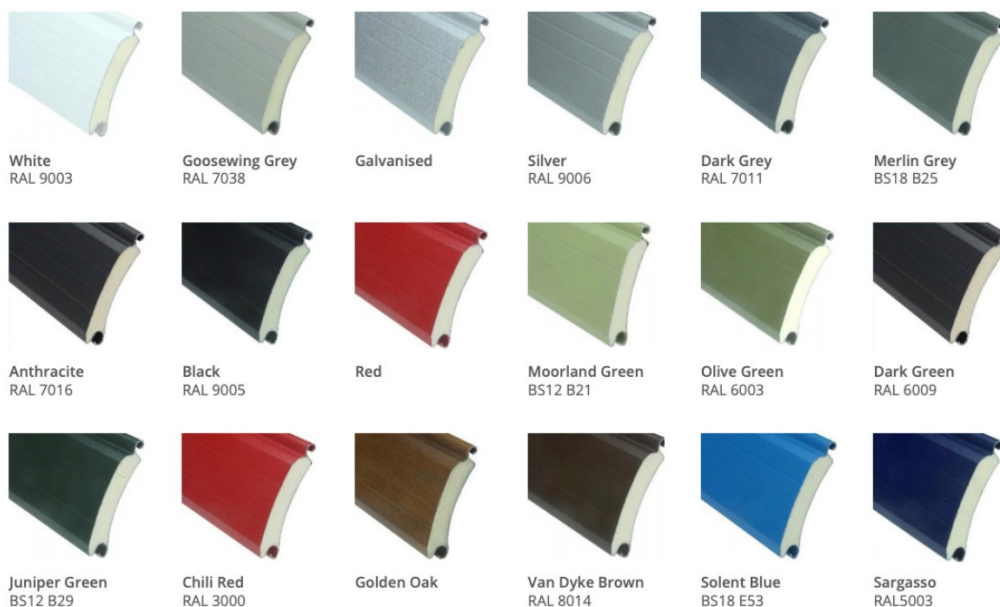
Casing, guides and bottom rail can be polyester powder coated to RAL colour

Colours Available

Plastisol (*see Colour Chart below*) or polyester powder coat to RAL colour

Options

Push button activation.
Key switch activation.
Remote control.
Safety bottom edge.
Safety light curtain.
Vision slats.



Fire Rated Roller Shutters

DNA Products Fire Rated Roller Shutters are individually designed and manufactured to suit the specific opening. Shutter curtains are constructed from high performance interlocking laths and a tee section bottom rail running in side channels and fixed to the structure.

The curtain is hung from a high-level tube barrel and rotates on high quality bearings. A polyester powder coat to most BS or RAL colours is available as an option. Our Fire Rated Roller Shutter doors have been designed to comply with the requirements of section 8 BS 476: Part 22 : 1987 as tested by BRE Fire Research Centre No. TE 84510 with LPCB approval and certification for up to sixty minutes fire protection.



Application

Warehouses, Supermarkets, Public Buildings, Utilities & Factories, Distribution Centres, Hospitals & Museums, Waste Handling Stations, Retail & Shopping Centres.

Curtains

Shutter curtains are constructed from 76 mm traditional curved laths with a standard tee bottom rail. All curtains are securely held using cast end locks to suit the curtain configuration, which prevents lateral movement.

Guides

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

Endplates

Steel endplates of appropriate thickness to accept the barrel and curtain assembly are completed with machine cut 'U' supports relative to door size and are supplied with angles for fixing to the structure.

Barrel

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 25 mm up to a maximum of 80 mm. The counter balance spring arrangement is captivated by using a combination of machined blocks and bearings. The barrel is fully supported on mild steel cups that are securely attached to the endplate assembly.

Hood (optional)

A profiled galvanised sheet steel hood is included as standard. An optional fascia can be fitted where required. A hood support bracket may be required, this depends on the fire rating and the size of the opening.

Solenoid release linking to fire alarm

A solenoid is incorporated to be linked into the fire alarm (by others) using a 24-volt DC supply. On receipt of an incoming fire alarm signal the door will close under controlled descent. Note, If the signal from the fire alarm is volt-free an audio-visual warning panel will be required.

Electrical operation

Suitable for all sizes of shutter, the motor is either single phase (240 Volt, 50 Hz) or 3 phase (415 Volt, 50 Hz) dependant on size of door or customers requirement. A controlled descent of 100mm per second (approx.) is an inbuilt safety feature. In the event of power failure, manual override is achieved by pulling a pull cord to close the shutter under controlled descent and a hand chain to open. The hand-chain override is designed for emergency use only. As standard each shutter includes controls to the Control Panel only. This is to be fitted at high level to prevent unauthorised tampering. Other control options are available on request. We strongly recommend that shutters exceeding 16 metres square should be electrically operated.



— Have a Question? —

Please take your time to have a look at all our products around our website. If you have a question do not hesitate to contact us on:
01472 361 601 or sales@dna-products.co.uk

DNA

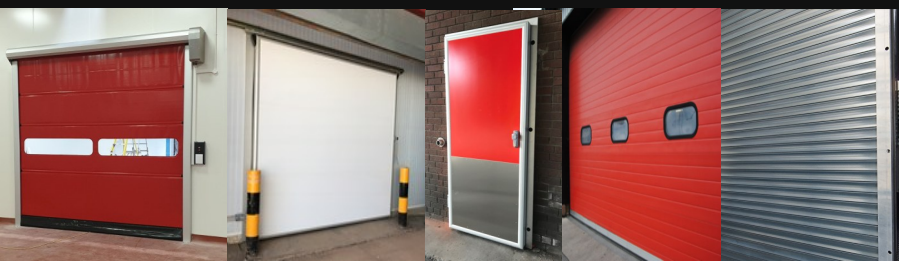
PRODUCTS

We supply, install, and maintain a wide range of products including Insulated Doors, High Speed Doors, Dock Levellers and Shelters, Coldrooms, Insulated Panels, Modular Shelving and many more. We have over a hundred years of experience in the industry between us and have worked with many different products giving us a wide range of knowledge and skills. We aim to supply a reliable service at the best possible prices.

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COVERAGE