

DNA

PRODUCTS

Sectional Overhead Door Brochure





When searching for the right sectional overhead door, safety, durability, customisation, and appearance are very important. You are looking for a reliable product that will operate problem free under all conditions. A proven product that will be made according to your specification and be delivered on time.

Our sectional overhead doors meet the most stringent British guidelines in the area of safety and durability. In a wide range of applications and in changing weather conditions (temperature, wind, and water), the sectional overhead doors provide reliable access through the openings in which they are installed.

We offer an extensive range of quality steel sectional overhead doors, with or without windows, in almost any desired size and colour. Thanks to the many combinations that are possible, the doors can simply be integrated in both industrial and commercial buildings. They are easy to operate, are functional and improve the appearance of your premises.

GUARANTEED QUALITY

With our sectional overhead doors, you can count on optimum safety and durability from the product, the delivery, the installation and service. We guarantee the best quality.

KEY FEATURES

Flexible

Our sectional overhead doors are constructed from Kingspan composite steel, allowing you to specify the format, functionality, and appearance you desire. They can also be supplied in any RAL colour.

Durable

The panels in our doors are perfectly protected against corrosion, thanks to the use of high-quality materials, which are galvanised and coated. This guarantees a long life, even when exposed to extreme weather conditions.

Long Life

Thanks to the extra thick steel skin, that is galvanised and coated, the doors are optimally protected against deformation and corrosion. You are ensured that your door will have a long life.

Certified

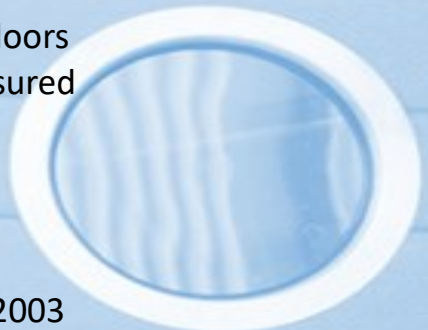
To guarantee the quality and safety of industrial doors, the European Commission has established (European) guidelines in the EN 13 241 1:2003 standard. All our sectional overhead doors meet the requirements specified in this CE NEN standard. This has been Determined by the accredited Swedish research centre SP Technical Research Institute of Sweden.

High Insulation Value

Our sectional overhead doors are made of 40-millimetre thick steel sandwich panels/sections (80mm are available). The male-female construction ensures that they fit together almost seamlessly. The front and back skins of the panels are made of extra thick steel. These skins are separated by Kingspan's unique firesafe foam.

Made To Measure

Our sectional overhead doors are manufactured to the exact specified size and assembled and installed on site. If required, our doors can be fitted with a wicket door and/or windows. The sectional overhead door can be operated manually, semi-automatically (with a chain hoist) or fully automatically (with a GfA operator).





COMPONENTS

Panel Hardware

The roller carriers are adjustable and along with the intermediate panel hinges, are hot dipped galvanized steel. The rollers which run in the side-track are sealed for life, self-lubricating bearings c/w a nylon tyre to give smooth and quiet operation and sealed directly to the seal connected to the side fixing angle. This is also pre-drilled.

Panel Options

Kingspan Plastisol XL200 or polyester coating to the external face an extensive range of colours. Internal RAL 9010. Factory paint finish to either internal or external face to any BS or RAL colour.

Panel Finishes External

25 Micron, Stucco Embossed, Thermosetting Polyester Paint or Kingspan XL Forte - 200 micron, Leather-grain embossed thermoplastic paint with excellent abrasion resistance.

Panel Finish Internal

25 Micron, Stucco Embossed, Thermosetting Polyester Paint in RAL Bright White RAL 9010.

Door Head Gear

Sectional doors are counterbalanced to ensure the smooth running of doors. Using minimal effort. All counterbalance spring calculations are designed to get the maximum life out of the door springs we manufacture (most typical loading docks are calculated to a minimum of 20,000 cycles). The springs are high tensile helical wound steel. Shot blasted for improved performance. The springs are mounted on a steel shaft supported by bearing brackets incorporating sealed bearing rollers, to ensure free running of the shaft.

Door Head Gear *continued*

Also mounted on the spring shaft are the cable drums. These carry the aircraft quality cables, which have 7:1 safety factor. These are looped and swaged using a hydraulic press to ensure the cables do not get detached from the cable drums or the brackets which connect the cables to the bottom of the door panels. Spring break devices and cable breaks are fitted to doors as standard to comply with CE markings.

Tracks

A track system is used when opening and closing a sectional overhead door. This system consists of a set of rails, the springs, and the operating equipment. The track system forms the silent strength of every sectional overhead door.

Guide Tracks

The door tracks are galvanized steel 'J' type (designed to give free and easy running for bearing rollers). These are mounted on a galvanized steel jamb angle for fixing purposes via a unique stud welding system which ensures the most effective seal to the building as the tracks need no adjustment on site. Cable break devices are fitted to all doors to comply with CE markings, we also offer an optional anti lift bracket.



Guide Track Options

Guide tracks are individually manufactured to suit site conditions, taking into consideration door size, headroom and roof pitch, see 'installation clearance's' section for details.

Our tracks are always custom made and all made from high-quality galvanised steel. A track is designed and made to measure in our factory for every sectional overhead door. The quality of the track determines to a large degree the life of your sectional overhead door. The roller carriers are adjustable and along with the intermediate panel hinges, are hot dipped galvanised steel. The rollers that run in the side track are sealed for life, self-lubricating bearings with a nylon tyre to give a smooth and quiet operation.

Springs, Hoisting Cables & Hardware

Steel lifting springs and cables are used to open the sectional overhead door and keep it open. The springs are high quality and have a long life. They are shot blasted, powder coated and oiled when delivered. Special springs are available for overhead doors that are used frequently. The hoisting cables are six times over-dimensioned for additional safety.

Seals

Epdm Perimeter Seals. Our Sectional Doors are fully perimeter sealed, as well as the intermediate panel seals, to provide the most effective weather seal to your door. All fixing faces, floors and lintels must be flush and square.

Operating Equipment

The sectional overhead door can be operated manually, with a chain hoist or by an electric motor. We can advise you of the possibilities and advantages of each mode of operation.

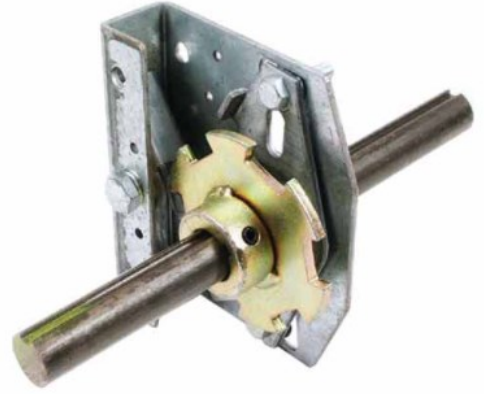
A range of manual and automatic operations are available (GFA Operators which include emergency chain override in the event of a power failure), including a large number of safety features as options.



DOOR SAFETY

Spring Brake Device

If a spring of the track system breaks (for instance at the end of its life), it is possible for the overhead door to suddenly shut at great speed. For manually operated doors especially, this can result in dangerous situations. Therefore, these overhead doors are fitted as standard with an obligatory spring brake device. If another mode of operation is used, the spring brake device can be fitted as an extra option.



Cable Break Safety Device (Recommended)

In the unlikely event that one of the cables of the guide rail system breaks, an unsafe situation can develop when opening or closing the door. To reduce the risk of a cable break, we over-dimension the cables six times. This reduces the probability of both cables breaking at the same time to almost zero. Although when using our cables, it is not obligatory to fit a cable break safety device, DNA Products fit them as standard.



Safety Edge & Light Curtain

A safety edge or a light curtain be fitted to electrically operated overhead doors for additional safety. With the safety edge installed, when the door is closing it will stop and automatically reopen if the safety edge is touched. The light curtain secures the entire door opening. As soon as someone or something is detected in the door opening when the door is closing, the door will automatically reopen.



Finger Protection



Finger protection is obligatory (CE standard) for overhead doors up to a height of 2.5 metres (the height of the pivot point of the top section). Finger protection is not obligatory for higher sectional overhead doors but offers extra protection. This is available with our Roller Guard. The Roller Guard is used to prevent crushing of fingers by the rollers in the side track.

Door Panels

Kingspan 610mm x 40mm thick composite panels manufactured using 0.45mm outer and 0.4mm liner, continuously hot dip, zinc coated structural steel with internally mounted steel bands to accept self-tapping fixings. Insulated with Kingspan's unique Isophenic (IPN) Core (providing optimum fire performance as standard) giving an optimum panel 'U' value of 0.51 W/m² K. This means a typical door of 4000 x 5000 'U' value of 0.9 W/m² K. Better 'U' values are achievable using 80mm Kingspan composite panels on request.



Safety Edge

You can also select a safety edge to be fitted on electrically operated overhead doors for additional safety. If the door closes while someone or something is under it, the safety edge stops the door automatically.

PERFORMANCE

- Doors to comply with BS EN 13241-1:2003 + A1 : 2001
- **Mechanical Aspects:** Pass (BS EN 12604)
- **Requirements for safety in use of power operated doors:** Pass (BS EN 12453)
- With 3rd party certification by recognised testing authority.
- **Wind Pressure:** Class 3 (BS EN 12424) – Doors to achieve higher wind load classes are available on request.
- **Manual Opening force:** Pass
- **Water Penetration:** Class 3 (BS EN 12425)
- **Air Permeability:** Class 2 (BS EN 12426) – Offering an air tightness of 12m³/m²h at a pressure of 50Pa.
- **Air Leakage:** Class 3
- **Acoustic Rating:** 25dB
- CE marked with manufacturers declaration of conformity.



FIRESAFE

The **FIRESafe** core provides optimum fire performance for a sandwich panel and is classified as B - s2, d0 under the requirements of EN 13501-1:2007+A1 (the European wide classification for construction products and building elements) - and accords with Fire Class M1 ('non inflammables') in France.

During the early stages of fire, the Isophenic (IPN) core swells and expands slightly (thereby filling any gaps between the steel faces) to form a protective char. The step change in chemical formulation also means that this differentiated, added value and future proofed Kingspan Door Components panel is more difficult to ignite, self-extinguishing and produces less smoke than other products.

The panel embodies the same proven formulation as used by Kingspan roof and wall panel for many years to meet with insurance approval standards Loss Prevention Standard (LPS) 1181 and Factory Mutual (FM) 4880.

Please note: B - s2, d0 describes the following:

B - reaction to fire behaviour

s2 - smoke production classification

d0 - flaming droplets / particles classification



As you would expect, we offer a wide range of optional extras including but not limited to, double-glazed windows, integral personnel doors in main door and door safety furniture.



WINDOWS

Do you want more light to enter the area behind the sectional overhead door, or do you want to be able to look through the door to the outside? It is possible to add one or more windows to the sectional overhead door.

With our sectional overhead doors, you can select insulated, oval or rectangular windows. If you want to increase the amount of illumination, you can glaze the entire width of the door. We do this by combining the standard steel 40mm panels with aluminium panoramic window sections. This allows even more light to enter, making it a simple way to increase the amount of light on the work floor as well as giving your sectional overhead door a more industrial appearance.

WICKET DOORS

Do you require frequent pedestrian access to your working area? While a sectional door is an ideal and secure solution to an external opening they are not designed for rapid access. This means that pedestrians may be delayed while the door is in motion. A Wicket Door prevents these delays while also saving space and money as you will not need to build a separate pedestrian access door.

Available as right-hand or left-hand opening with a range of vision panels and handles to suit your specific needs.



COLOUR OPTIONS

Plastisol



Plastisol 610mm Colours

These colours are only available on 610mm Deep Panels

- 01. Sunflower Yellow (Aztec)
BS 10E55
- 02. Flame Red (Poppy)
BS 04E53
- 03. Sapphire Blue (Sargasso)
RAL 5003
- 04. Khaki Green (Moorland)
BS 12B21
- 05. Olive Green
BS 12B27
- 06. Leaf Green (Heritage)
RAL 6002
- 07. Van Dyke Brown
BS 08B29
- 08. Goosewing Grey
BS 10A05
- 09. Merlin Grey
BS 18B25
- 10. Cornflower Blue (Solent)
BS 18E53
- 11. Azure Blue (Ocean)
BS 18C39
- 12. Juniper Green
BS 12B29
- 13. Signal White
RAL 9003
- 14. Anthracite
RAL 7016



Plastisol 500mm Colours

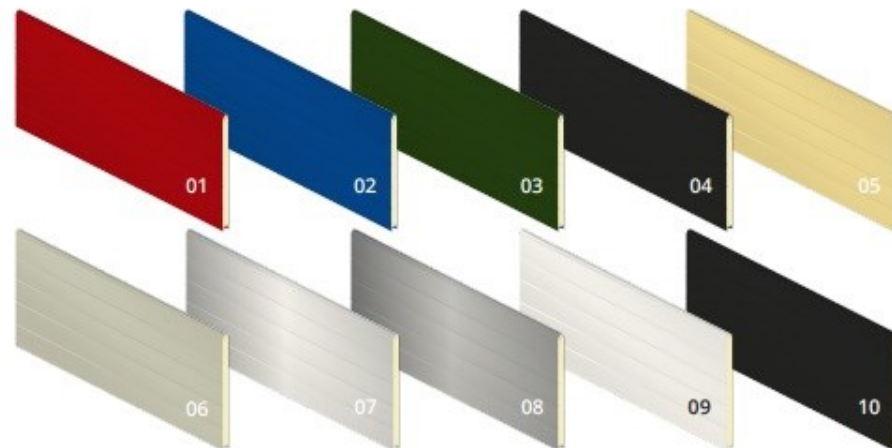
These colours are only available on 500mm Deep Panels

- 01. Gull Grey
BS 18B17
- 02. Mushroom
BS 10B19



Polyester

- 01. Sunset Red
RAL 3000
- 02. Gentian Blue
RAL 5010
- 03. Fir Green
RAL 6009
- 04. Anthracite
RAL 7016plus
- 05. Ivory
RAL 1015
- 06. Bone (Grey) White
RAL 9002
- 07. Grey Aluminium
RAL 9007plus
- 08. Silver
RAL 9006plus
- 09. White
RAL 9010
- 10. Black
RAL 9005



Please note: The colours reproduced here are offered as guide only, because of differences in the printing process. It is possible that the finished product may be slightly different from those illustrated on this document.

— 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

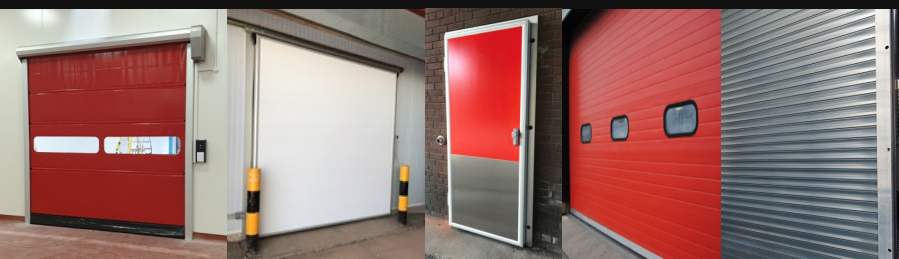
PRODUCTS

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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NATIONWIDE
COVERAGE