



TITAN
DOOR SYSTEMS

Titan S-Series

Flush metal doorsets

CAT 301

Designed and
manufactured
in the UK



Titan S-Series

Flush metal doorsets

Titan S-Series is a proven range of flush steel doorsets that utilises the latest technology in door engineering and construction principles. High levels of aesthetic impact are uncompromised by customers' requirements for the highest levels of performance.

S-Series doorsets are available in a wide range of configurations; from single to bi-folding leaves, all with a co-ordinated range of hardware, louvres, and vision panel options. As standard, the finish is a factory applied polyester powder coat, although special timber effects are available too. Primed finish for site painting is available, however, for more demanding applications, 304 and 316 stainless steel constructions are available.



Secure plant rooms – Stadium MK

Construction

Door leaf

Performance dependent, typical door leaf construction is between 45mm and 66mm thick overall and comprises two galvanized face sheets, zinc coated to BS10142:2000 (Magnelis is available as an option for use in harsh environments). Vertical edges incorporate either a full height mechanical 'Edge-Seam Interlock', or a welded panel construction. Where appropriate inverted reinforcement channels are then spot-welded top and bottom to enhance strength and overall rigidity.

Core

Dependent on the required performance and application, a choice of core materials is available. Typically, a resin impregnated honeycomb is used. Despite its light weight, this material provides excellent impact resistance coupled with high resistance to torsional load. Alternative cores include honeycomb with additional vertical stiffeners, thermal performance cores, acoustic performance cores, and various levels of security cores.

Hardware preparation

Door leaves are engineered to suit specified ironmongery 'in the flat'. This means that all necessary cut-outs are punched into the sheet prior to forming.

Hardware preparations are therefore designed into the door leaf. Examples of this attention to detail include the incorporation of lock boxes within the door leaf. These provide enhanced support for locks and additional protection from attack. Heavy gauge hinge pads/carriers are welded into the door prior to assembly.

Frame profiles

Typically, construction is from 1.5mm galvanised sheet zinc coated to BS10142:2000 and is available in several profile options. Typically, these are from a choice of single rebate, double rebate, semi-wrap, or two-part wrap around frame profiles. Traditional 90mm and 150mm profiles are increasingly being joined

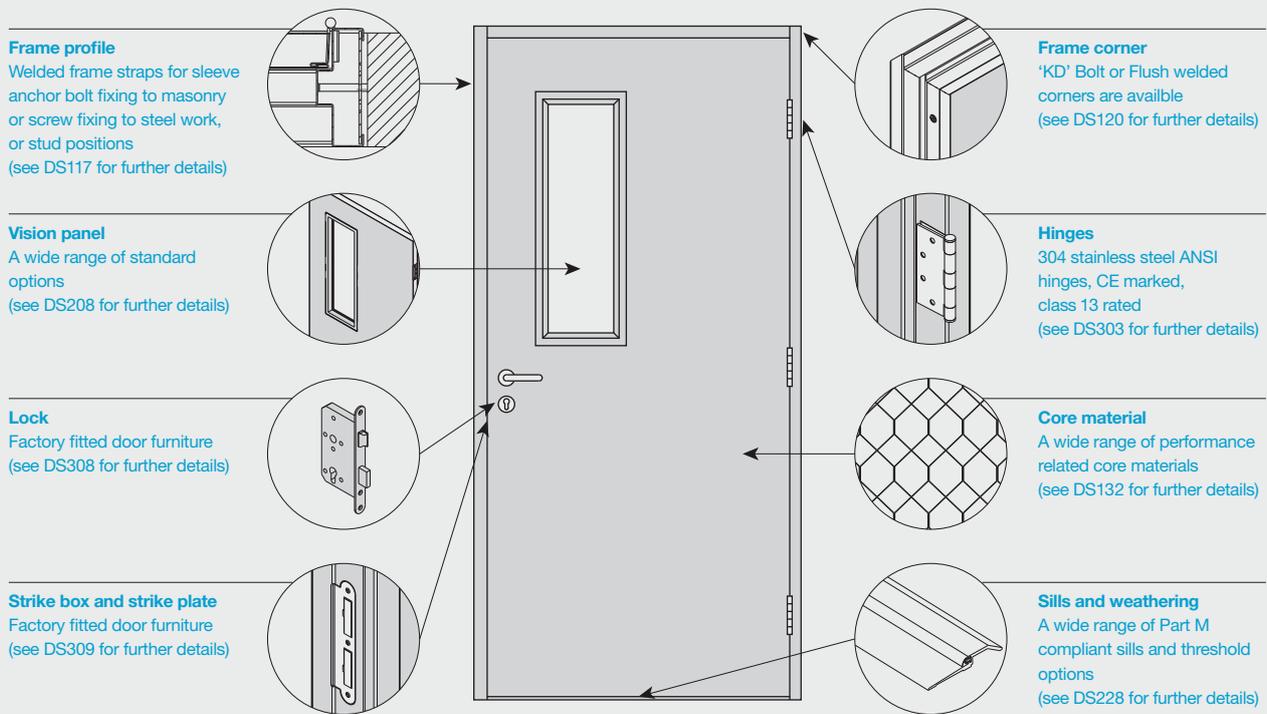
by deeper profiles to suit the requirements of increasing large cavities within modern walls. Project requirements of up to 325mm are routinely being fulfilled.

Frame features

Frame corner options available include mechanically locked or welded joints. Hinge cut-outs, lock strike apertures and fixing holes are all engineered into the profile before being formed up. Hinge pads and fixing straps are welded into position. Fixing hole caps can be either a plastic push-in type finished in a choice of either black or white as standard. Metal hole caps are available as an option – these are bonded into place once the doorset has been fitted and are finished to match the frame.



Control room – Minworth STW



Options

Doorset configurations

Doorsets can be supplied in a wide range of configurations. Typically, these are single, leaf and a half, or double leaf arrangements.

For certain applications, oversized constructions are required. This can be achieved by means of special full height or width leaves (within certain manufacturing parameters), or by the incorporation of over-panels.

Over-panels can be glazed, solid, or louvred. These can be supplied with or without transom bars and be of a fixed or removable format. Where safety concerns dictate, over-panels can also be supplied as hinged.

In addition to over-panels, side panels – glazed or solid, are also available. Panel construction in all cases (excluding where glazed or louvred) will be co-ordinated with that of the doorset.

Standard finish

The market increasingly demands a factory applied finish (although primer finish remains an option where doorsets are to be site painted).

Titan S-Series doorsets are available with polyester powder coat finishes to one of three standards dependent upon the application:

PC1 suitable for internal applications.

PC2 suitable for standard external applications (except within 5 miles of the coast).

PC3 suitable for applications within 5 miles of the coast. NOTE: where doorsets are to be in physical contact with sea water further precautions may be required – please liaise with a member of our sales team for further details.

A standard range of 50 colours from within the standard BS4800 or RAL colour charts is available. Other colours and finishes are available upon request, although these may incur additional cost.

Speciality finishes

To complement our standard range of colours, the introduction of an innovative new finishing technique has allowed a range of timber effects to be introduced. These finishes provide the warmth and texture of wood, whilst retaining the strength and durability of steel.

A wide range of effects are available as standard – please ask our sales team for details.

Anti-microbial coatings

Where concerns regarding the spread of disease or contamination exist, special antimicrobial finishes are also available. Typically, these are for use in health care and clean room environments and can be used in conjunction with a range of special antimicrobial coated hardware – please ask our sales team for details.

Stainless steel construction

Stainless steel construction is also available. This can be either brushed grade 304 (suitable for internal, or protected external applications), or grade 316 (suitable for harsh external and coastal applications). Textured, patterned, or shot-peened materials are available – please ask our sales team for details.

Access-controlled personnel door – Plymouth EFW



Vision panels

A wide range of standard options are available. Apertures within door leaves are factory channelled for additional integrity.

A wide range of glasses are available in various thicknesses to suit performance characteristics required. All trims are available in a format to suit DGUs. Careful attention has been given to ensuring that the requirements of Document M of the building regulations can be catered for in the widest possible number options – please ask our sales team for details.

Louvre panels

Ventilation can be achieved by means of either “Bladed Louvre” or “Punched Louvre” options. Apertures within door leaves are channelled for additional integrity. Louvres are available in several standard formats. Bladed louvres are bird proof ‘V blade’ as standard with insect mesh available as an option. Fire rated options and configurations are available too – please ask our sales team for details.

Hardware

A range of co-ordinated hardware has been established. Items have been selected on the basis of aesthetic appeal, robustness, and cost effectiveness. Items such as lever handles, pull handles, kick plates and closer bodies are in a stainless-steel finish as standard. Where stainless steel is not available, the quality of the finish is carefully considered.

Performance

Under the S-SERIES umbrella, Titan Door Systems has developed one of the widest range of performance led doorsets available on the commercial door marketplace.

The range incorporates:

- General or multi-purpose doorsets (external doors CE Marked to BS EN 14351-1).
- Fire rated doorsets with Certifire third party certification up to FD240s (external doors CE Marked to BS EN 16034-1).
- Acoustic doorsets – rated to Rw42 under ISO 10140.
- Certificated thermal performance of doorsets – with U values of up to 1.7 w/m2 under BS EN ISO 10077-1.
- Security rated doorsets configurations with certification under LPS1175 – SR2, SR3, SR4 and STS202 BR1, BR2, BR3 and BR4 to satisfy the requirements of Secured by Design.
- Clean room doorsets – to suit the requirements of catering, health care or pharmaceutical manufacturing environments.
- Sports hall doorsets – to suit the requirements of Sport England.
- Flood defence – to suit applications with water depths up to 800mm under PAS1188.



To find out more about how Titan high-performance steel doorsets can help you achieve your project's requirements, please visit our website www.titanddoors.co.uk or talk to one of our team on +44 (0)121 352 2359.

Titan Door Systems Ltd

Units 115–119
Fort Dunlop Building
Fort Parkway
Birmingham
B24 9FE, UK

+44 (0)121 352 2359
sales@titanddoors.co.uk

www.titanddoors.co.uk



Raising Standards
Safety Assured

