



hansen door specialists

Uniclass	EPIC	
L41121:P41	D1121:X412	
CI/SfB		
(31.5)	Xh2	(K2)

AccentHansen

Also available:

MultiShield - CleanShield - SwingShield
SoundShield - SecureShield - GlazeShield FL

FireShield™ 240 (FS3) Doorsets

AccentHansen FireShield steel doors are designed to provide the requisite fire performance of 240 minutes with high aesthetic qualities and are tested with smoke control as required. They are available in Zintec and Stainless Steel. All AccentHansen Fire Doors have been tested to BS 476: Part 22: 1987 (integrity only). A UKAS accredited laboratory undertakes all tests and assessments.

Door Leaf

Constructed from two skins of 1.2mm thick zinc coated steel to BS EN 10152, folded to form a 46mm thick door leaf. The vertical edges of the two skins are pressed together to create a modular Twin Tray Construction with EdgeShield full height, seam assembly, which increases panel strength and rigidity.

A deep horizontal channel is located within the leaf, spot-welded to the inner and outer skins, prior to fitting of a capping channel closer. This combination is applied to the top and bottom to produce the flush edged door leaf.

The combination of the deep channel and capping channel closer effectively creates a horizontal bar reinforcing member at the top and bottom of the door leaf, for maximum end strength and rigidity.

The void between the two skins is filled with a Bonded Honeycomb core material (PulpShield 'B'), selected for its compression/torsion load performance and fire resistant properties. Reinforcing pads are fitted within the leaf, to suit hardware options.

Captive, floating hinge-mounting plates further reinforces the hinging edge, and the lock mechanism is installed within an inner enclosure. This prevents the possibility of infill materials interfering with the lock mechanism and facilitates its removal for future maintenance or replacement.

For added security on double doors, a 'T'-section astragal is fitted to the leading edge of one leaf. If the doorset is designated as a smoke control door or weather seals are to be applied, an additional internal astragal is fitted to maintain the sealing plane.

Frame

Pressed from 1.6mm thick zinc coated steel to BS EN 10152, to form a single or double rebate profile to BS 1245: 1986.

- Header members are profiled to form a butt joint with the full height vertical jambs
- Mitred frames or fully welded frames are available as special options
- Cleats are spot welded into the ends of the header to allow bolt-connection to the vertical jambs that are then suitably reinforced at all hinge points.

Where cold smoke control to BS 476 Part 31.1 or weather control is a requirement of the doorset, a self-adhesive tubular neoprene compression seal is fitted into the doorframe rebate on factory-finished doorsets, or supplied for on-site fitting by others on unfinished or factory-primed doorsets.

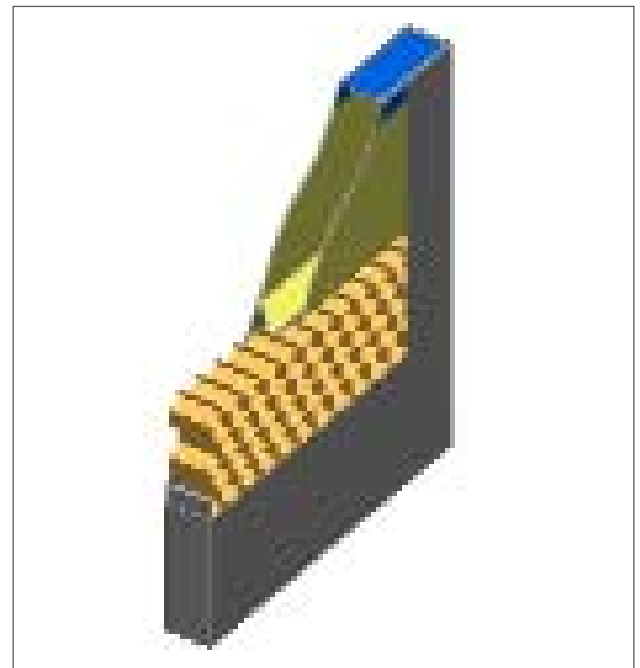
Frames are arranged for bolt fixing to a suitable substrate structure, using the TightShield assembly system.

Finish

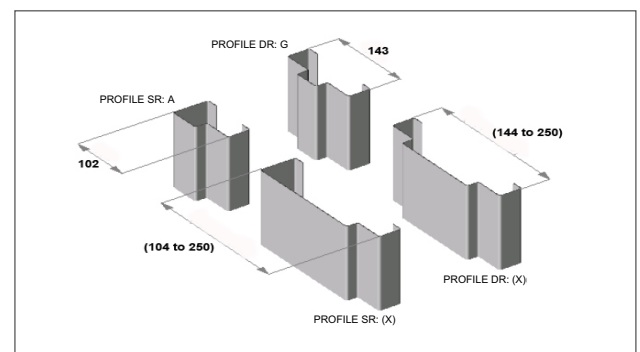
Powder Coated Paint Finish

All AccentHansen doors are finished with a standard APP 120 powder coat finish with a 5 year warranty* and a design life expectancy of 12 years making it one of the most durable finishes on the market.

Our range of Powder Coatings are organic coatings that need to be cleaned and maintained regularly to ensure that the decorative and protective properties of the coating are retained. This paint finish system has been designed to give enhanced corrosion protection of mild steel and has been extensively tested against ISO 9227, GME 60203 and ISO 12944 and can be supplied to any standard BS 4800 or RAL reference number.



Variable frame Profiles available: SR:(X) and DR:(X)



Standard Profiles: SR:A and SR:G

Fire Doors - Technical Specification

AccentHansen

All AccentHansen Fire Doors have been tested to BS 476: Part 22: 1987 (Integrity only). A UKAS accredited laboratory undertakes all tests and assessments.



FireShield™ 240 (FS3) Doorsets

Note: colours which are only available in a metallic finish will incur an additional surcharge.

* Doors which are fitted in a marine or coastal area could require the standard specification to be upgraded. This will also have an effect on the warranty of our products.

Hinges

Hinges are supplied in accordance with BS 7352: 1990: Class 9 (pr EN 1935: Grade 14) based on the physical leaf size, leaf weight and additional equipment fitted to the door.

Vision Panels

Vision panels are available but should be discussed with AccentHansen Technical Advisory Service.

Door Closers

In accordance with BS 6459: Part 1: 1984 (pr EN 1154)

AccentHansen FireShield™ doors and frames have been tested in accordance with BS 476: Part 22: 1987 in terms of integrity only. Door constructions have been tested with and without door closing devices and conform to Approved document B, Appendix B (FIRE DOORS), Section B2 from the Building Regulations.

Sill Details

AccentHansen FireShield™ doors can be specified with a variety of sill details. For further information on any specific requirements, please call our Technical Advisory Service.

Door Seals

Weather, draught and smoke cold control sealing is achieved using a self-adhesive tubular neoprene compression, which is fitted into the doorframe rebate and along the central meeting stile for double doors. On factory top coated doorsets the seal is applied after the painting process. On unfinished or factory-primed doorsets the seal is supplied loose for on-site fitting. For further information contact AccentHansen Technical Advisory Service.

Astragals

Astragals are manufactured from 1.2mm thick zinc coated steel to BS EN 10152, folded to form either a 'T' or an 'L' section Astragal. 'T'-section Astragals are fitted to the pull face on the leading edge of the first opening leaf with a 'T' or 'L'-section fitted to the push face on the trailing leaf.

A 'T'-section Astragal provides the following enhancements to door design:

- Additional security on single leaf doorsets by hiding the latch or lockbolt
- Smoke control on double leaf doorsets, when combined with the appropriate smoke seal and 'T' or 'L'-section Astragal
- Added weather and draught protection on both single and double door leaves when combined with the appropriate weather seal and the 'L' or 'T'-section Astragal..

Frame Fixings

The type of frame fixing and the fixing centres are dependent on the substrate type and detail in to which the doorset assembly is to be fitted. Only designated fire retardant fixings should be used. For further information on any specific requirements, please call our Technical Advisory Service.

Transom Panel

Constructed from two skins of 1.2mm thick zinc coated steel to BS EN 10152, forming a 46mm thick panel. The Vertical edges of the two skins are pressed together to create a modular Twin Tray Construction with **EdgeShield** full height, seam assembly which increases panel strength and rigidity.

A capping channel closer is welded top and bottom to produce a flush edged transom panel. The void between the two skins is filled with a Bonded Honeycomb core material (**PulpShield 'B'**), selected for its compression/torsion load performance.

Transom panels can be supplied in the following configurations:

- Factory fixed and sealed to be an intrinsic part of the frame assembly.
- Fully detachable for on-site removal in high maintenance areas. Supplied with dual self adhesive neoprene weather seals on external door applications, as follows:
 - a) Internally fixed with a visible angle frame and self-tapping screws.
 - b) Externally fixed with AccentHansen's high load steel peg and steel rack bolt system.
 - c) Side hinged creating a 4-door leaf application, with hinged edge reinforced by captive, floating hinge-mounting plates.
 - d) Top hinged creating a 3-door leaf application, with hinged edge reinforced with full length Zintec plate to allow fitting of stainless steel continuous hinge.

The standard transom panels incorporate a transom rail, pressed from 1.6mm thick Zintec coated steel to BS EN 10152, forming a profile co-ordinating with the main frame profile. This rail can be supplied either fixed or removable on the internal, secure side of the building.

On vertically hinged double transom panels or specifications requiring no transom rail AccentHansen's surface mounted transom panel bolting system may be required depending on physical size of assembly and conditions of use. The system is leaf mounted and thus swings with the door as it opens. In the closed position it appears as a transom rail on the internal elevation of the door assembly.

On double transom panels, a 'T'-section astragal is fitted to the leading edge of one leaf. If full weather seals are to be applied, an additional internal astragal is fitted to maintain the sealing plane.

To speak to our Technical Advisory Service call 0845 070 5224.

AccentHansen

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AccentHansen Ltd reserves the right to improve, update, and modify products and services without prior notice.

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Fire Doors - Technical Specification