



hansen door specialists

Uniclass	EPIC	
L41124:P41	D1124:X412	
CI/SfB		
(31.5)	Xh2	(P2)

AccentHansen

Also available:

SoundShield 35™ (SD1) Doorset MultiShield - CleanShield - FireShield - SwingShield - SecureShield - GlazeShield FL

AccentHansen SoundShield steel sound control doors offer a variety of acoustic performances. Our SoundShield doorsets are quality engineered products with high acoustic properties, carefully disguised in an attractive doorshell. Available in Zintec and Stainless Steel, AccentHansen SoundShield doorsets have been tested to BS 2750: Part 3: 1980, ISO 140/111-1987, with fire rating up to 120 minutes. 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 to create a modular Twin Tray Construction with EdgeShield, full height, seam assembly, to increase 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 "A"), selected for its compression/torsion load performance. 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 also facilitates its removal for future maintenance or replacement.

On all double doors, a 'T'-section astragal is fitted to the leading edge of the active leaf with an additional internal astragal fitted to maintain the sealing plane and ensure positive sealing.

Frame

Pressed from 1.6mm thick zinc coated steel to BS EN 10152, to form a single or double rebate profile to BS 1245: 1975,

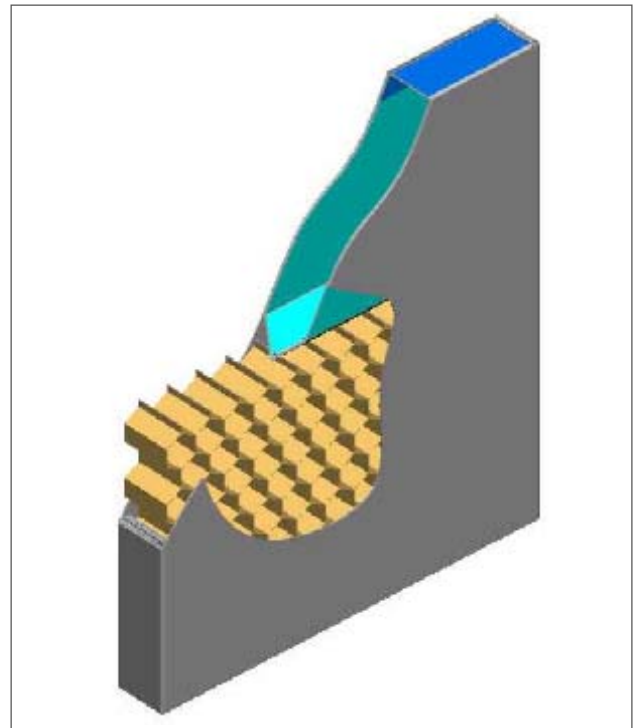
The door frame configuration will be four sided to ensure total acoustic sealing to the perimeter of the assembly.

- Sill members can be supplied as full section or low profile
- Header members are profiled to form a smooth, 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

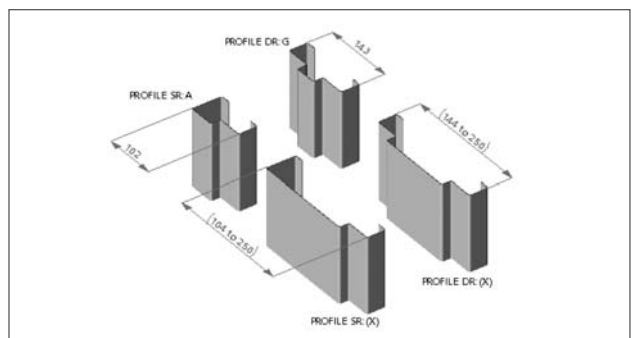
The inside void between the frame and wall is filled with a High Density Acoustic Mineral Core material (FibroShield) selected for its insulating and acoustic properties.

A self adhesive neoprene acoustic seal is fitted into the door frame perimeter on single doors with additional seal applied to the centre astragal on double door configurations. This is fitted into the doorframe rebate on factory finished doorsets, or supplied for on site fitting by others on unfinished or factory primed doorsets.

The frame is arranged for bolt fixing to suitable structure, using the TightShield assembly system.



Twin Tray Construction



Profiles SR: A, SR: G, SR:(X) and DR:(X)

SoundShield Doors - Technical Specification

AccentHansen

AccentHansen Acoustic doors have been tested to BS 2750: Part 3: 1980, ISO 140/111-1978 (Measurement of Sound Insulation in Buildings and of Building Elements)



SoundShield 35™ (SD1) Doorset

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.

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.

Transom Panels

The transom panel is constructed similar to the door leaf thus maintaining identical levels of acoustic attenuation. Full perimeter seals will be applied between the transom panel and adjoining frame.

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 self adhesive neoprene acoustic seals, to the following variants:
 - 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

Transom panels incorporate a transom rail pressed from 2.5mm thick Zintec coated steel to BS EN 10152, to form the special Double Egress SR:(SS55) frame profile. This rail is supplied either fixed or removable on the internal, secure side of the building.

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.

Datasheet No: SS35_0709.7



Useful Data

Table of Useful Data for Fire Rated twin tray construction doors	
Leaf Weight per m2 (kg)	28.43
Frame Weight per linear metre for single rebate profile SR:A (kg)	4.64
Frame Weight per linear metre for double rebate profile DR:G (kg)	5.65
U Value (W/m2.K)	2.7774

Weights shown are an assessed average value. For specific leaf weight calculation contact AccentHansen Technical Advisory Service.

Evidence of Performance - Acoustics

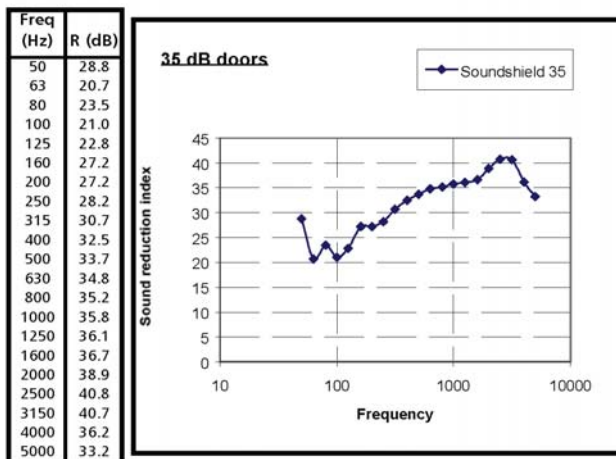
AccentHansen acoustic doors have been tested at Salford University Department of Acoustics to BS 2750:Part 3: 1980 ISO 140/III-1978. - Measurement of sound insulation in buildings and of building elements.

Extract from test document: Report No. AT/95/52: Test date 7th November 1995 AccentHansen product reference: SoundShield35

ISO 717: Rw = 36dB (Max. dev 3.9dB @ 1250Hz)
Av SRI, Rave (100hz - 3150hz) = 32.6dB
Weighted Sound Reduction Index Rw = 36dB
Sound Transmission Class STC = 36dB

Information on door type tested

Leaf configuration code: F
Frame Elevation: 4S
Door size tested 2115mm high x 1000mm wide



SoundShield Doors - Technical Specification