ENERCO
Doors and Loading Bay Solutions

AC35 ACOUSTIC DOOR

Our Doors can offer a level of acoustic attenuation from 22 to 54dB by varying the infill of the doorblade and frames. The higher levels of acoustic performance are achieved with custom manufactured doorsets using four-sided frames and acoustic seals.

DOOR LEAF

Thickness: 56mm (27kg/m² blade only).

Material: 1·2mm corrosion resistant Zintec/Aluzinc sheets as standard, wide variety of colours and finishes available. Also Stainless Steel.

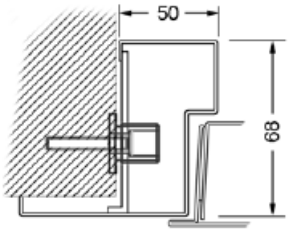
Infill: A mineral wool core.

Construction: Doorblade manufactured from two 1·2mm sheets lockformed together, by bonding two steel skins around a rigid core, using a no-weld construction.

DOOR FRAME

Construction: Folded from 1·6mm Zintec/Aluzinc.
Screw and tab construction with 4no. adjustable fixing feet per jamb.
The frame is fitted with 3no. Class 13 stainless steel hinges with 2no. security dog bolts.

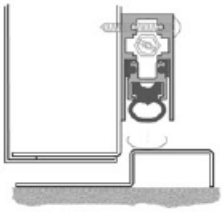
Profile: Standard Type B



THRESHOLD

Standard: Integral with frame.

Profile:



FINISHES

Standard: Supplied as standard unfinished for site finishing.

Recommended Option: Polyester Powder coated from Standard Colour Range.

Optional: Polyester Powder Coating from non-standard colour range.

SIZES

Size: Doors are custom manufactured in 10mm increments for single openings 690mm to 1200mm and double openings 1290mm to 2400mm, at heights up to 2700mm.

Contact the Sales office for special configurations and finishes.

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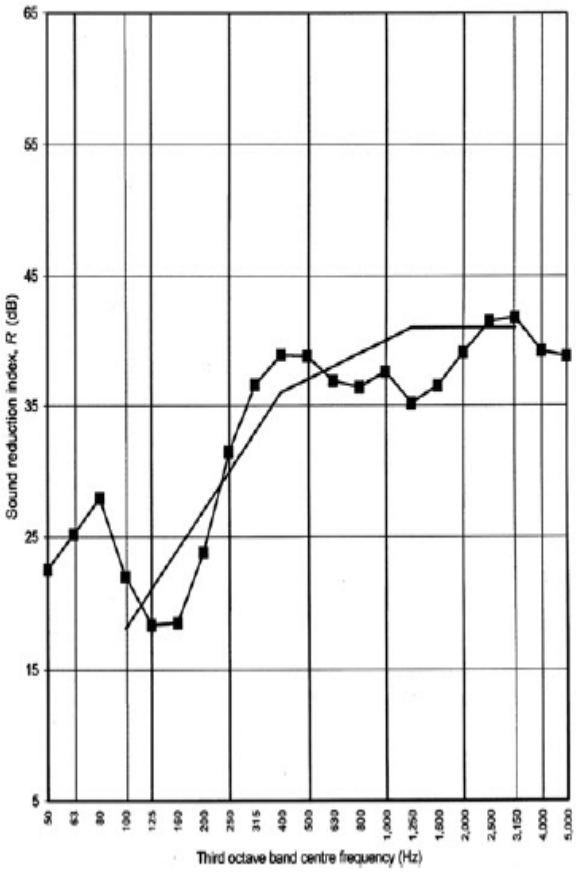
ACOUSTIC PERFORMANCE

Rating: According to BS EN ISO 717-1:1997

$R_w(C;C_{tr})$ = 45 (-3;-9) dB

Frequency (Hz)	*R* One-third octave (dB)	
50	22.5	x
63	25.2	x
80	28.0	x
100	21.9	
125	18.3	
160	18.4	
200	23.8	
250	31.5	
315	36.6	
400	38.9	
500	38.8	
630	36.9	
800	36.4	
1,000	37.6	
1,250	35.2	
1,600	36.5	
2,000	39.1	
2,500	41.5	
3,150	41.8	
4,000	39.2	
5,000	38.8	

x R adjusted for filler wall



Notes:

1. The above performances were tested by the BRE on 7th March 2006, test report 228403.
2. Tested to BS EN ISO 140-3: 1995
3. Single number quantities calculated in accordance with BS EN ISO 717-1:1997
4. The tests were undertaken on doors up to 2100mm in height only. Robust cannot certify performance above that.