

Datasheet

Sound insulating doors AL-D/D45

Dimensions

Standardized and custom-made models are available.

Single leaf: W = min. 800 – max. 1.500 mm

H = min. 1.200 – max. 3.100 mm

Double leaf: W = min. 1.700 – max. 3.000 mm

H = min. 1.200 – max. 3.100 mm

Non-standard dimensions are available upon request.

Narrower double leaf doors are available with asymmetric leaves.

Material

Double-walled door panels with a thickness of 80 mm made of electrolytic galvanized steel plates of different thicknesses, provided with vibration isolation and isolation material, filled with high-quality absorption. Aluminium or stainless steel also possible.

Frame

Block frame with integrated adjusting mechanism, manufactured from 2 mm galvanized steel plates, which can be mounted directly to a perpendicular stable clear wall opening (without need for a wooden mounting frame). Also available with a corner frame.

Preservation

Powder coating or wet-paint composition in RAL- and NCS-colours, wooden look or photo print, supply under certification (e.g. with coating-thickness measurements).

Locks and door fittings

Very wide range of door fittings among which are BMH-locks, BKS-studs, Cisa-of HAFI anti-panic bars, Dorma door closers (types depend on functionality).

Sealing

To guarantee an optimal acoustic sealing, each door leaf is fitted with profiled rubber seals exclusively for Alara-Lukagro doors designed.

Hinges

Standard each door leaf is fitted with a minimum of 3 self-lubricating hinges with stainless steel pin in a light metal bearing. Other hinge solutions are available for specific needs.

Threshold

Standard: heightened single seal threshold. Alternatively available with block- or corner frames all around, with drop seals or for flush mounting.

Applicable in combination with

Tandem construction for higher sound insulation.

Anti-panic in accordance with EN 1125 or EN 179.

ATEX-environment.

Extra's

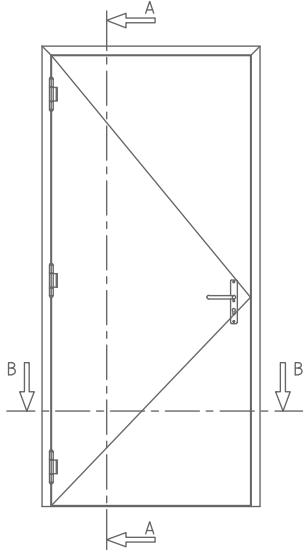
Removable centre mullion, windows, closing order coordinator, etc.

Airborne noise insulation

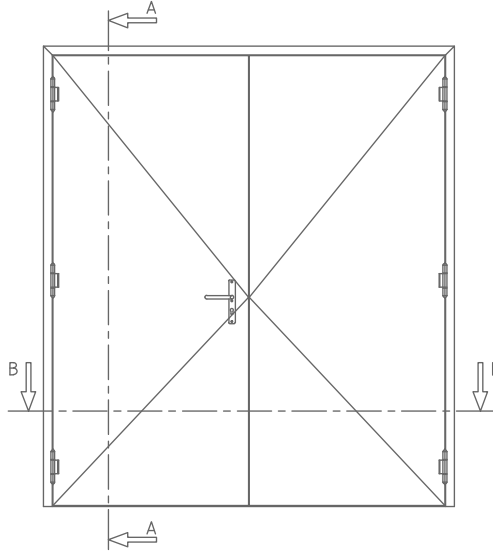
Airborne noise insulation in accordance with NEN-EN-ISO 140-3:1995 measured on a single leaf door (Peutz report A 1659-2):

	63	125	250	500	1k	2k	4k	8k	Hz	R _w (C, C _v)	Ra road	Ra rail	Ra pop
AL-D/D45	19	32	41	40	43	49	51	45	dB	45 (-2, -4)	41	44	40
AL-D/D50	11	36	43	47	51	51	52	46	dB	50 (-1, -4)	46	50	38
AL-D/D52	17	36	46	49	52	54	58	52	dB	52 (-1, -4)	47	52	42
AL-D/D54	21	41	48	52 52	55	55	60	53	dB	54 (0, -3)	51	54	46
AL-D/D56	29	43	49	52	56	59	63	53	dB	56 (-1, -4)	52	56	50

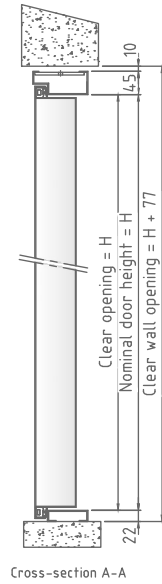
Single leaf door
Drawn DIN Left



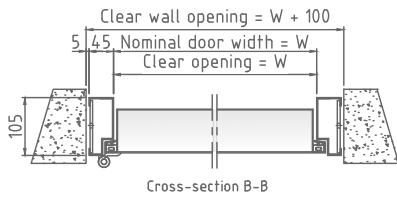
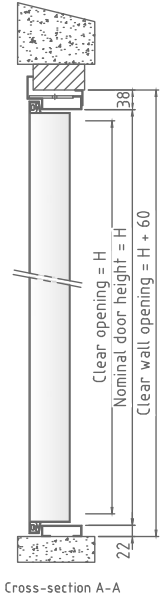
Double leaf door
Drawn DIN Left



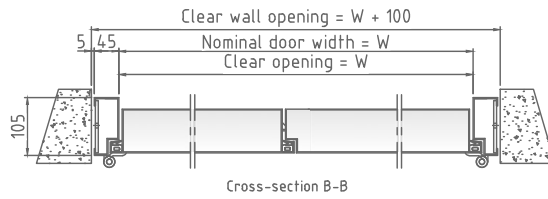
BLOCK FRAME
(Standard)



CORNER FRAME
(Optional)

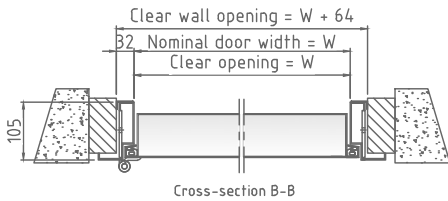


Cross-section B-B

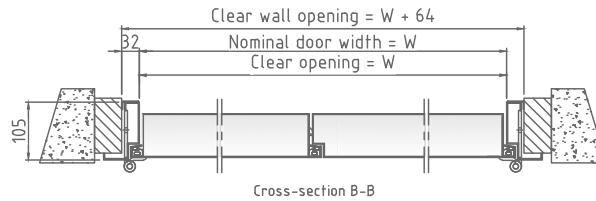


Cross-section B-B

BLOCK FRAME
(Standard)



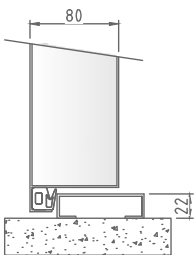
Cross-section B-B



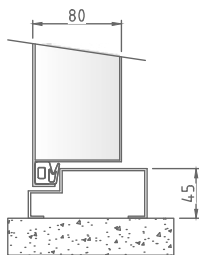
Cross-section B-B

CORNER FRAME
(Optional)

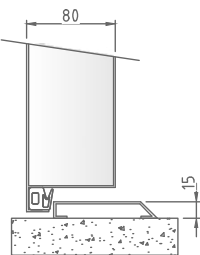
THRESHOLD



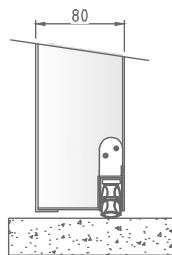
Type A
Single sealing
(Standard)



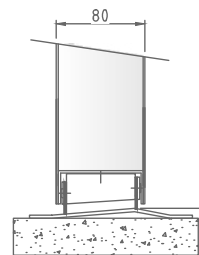
Type D
Around block frame
Single sealing
(Optional)



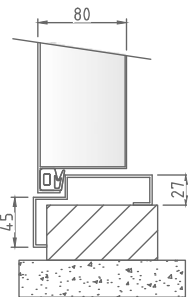
Type E
Low threshold
(Optional)



Type F
Drop seal
(Optional)



Type G
Hump sill
(Optional)



Type K
Around corner frame
Single sealing
(Optional)