

## Datasheet

### Sound insulating doors AL-D/D50 - D52 - D54 - D56

#### 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).

#### Extra's

Removable mullion, windows, closing order coordinator, etc.

#### Airborne noise insulation

In accordance with NEN-EN-ISO 140-3:1995 measured on a single leaf door with a 3 point lock (Caubergh-Huygen report 20082140-01):

	63	125	250	500	1k	2k	4k	8k	Hz	R <sub>w</sub> (C, C <sub>v</sub> )	Ra road	Ra rail	Ra pop
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	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
AL-D/D45	19	32	41	40	43	49	51	45	dB	45 (-2, -4)	41	44	40

#### 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 and frame is fitted with profiled rubber seals designed exclusively for Alara-Lukagro doors.

#### 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

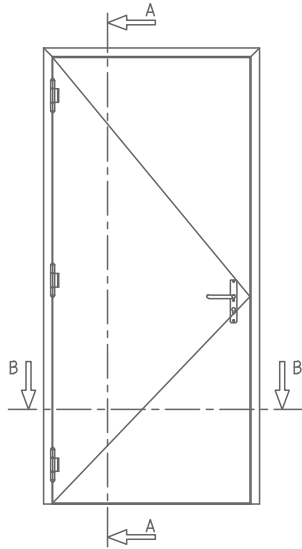
Standard: heightened double seal threshold. Alternatively available with block- or corner frames all around, with drop seals or for flush mounting.

#### Applicable in combination with

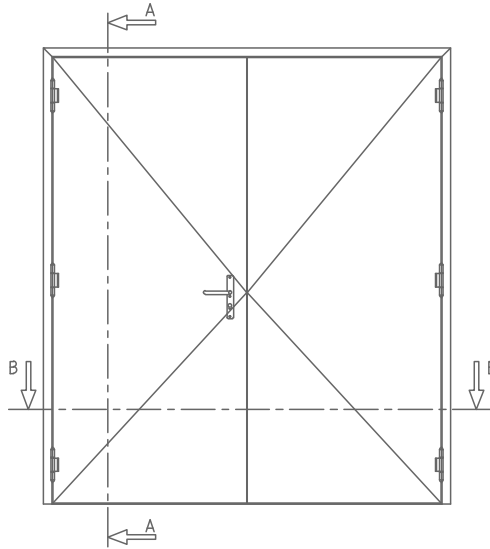
Tandem construction for higher sound insulation > R<sub>w</sub> 57 dB -

Fire resistance >30 or >60 minutes, tested in accordance with EN 1634-1 - Burglary resistance, resistance class 2 and 3, tested in accordance with ENV 1627 / NEN 5096 - Anti-panic, tested in accordance with NEN-EN 1125 or NEN-EN 179 - ATEX-environment - Airtightness, class 4, tested in accordance with NEN-EN 1026 / NEN-EN 12207 - Water resistance, class 7A, tested in accordance with NEN-EN 1027 / NEN-EN 12208 - Wind resistance, class C3, tested in accordance with NEN-EN 12211 / NEN-EN 12210.

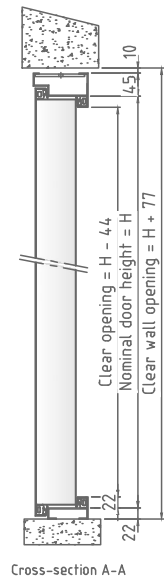
Single leaf door  
Drawn DIN Left



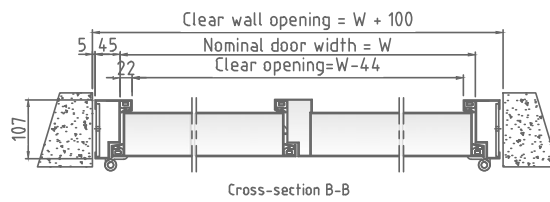
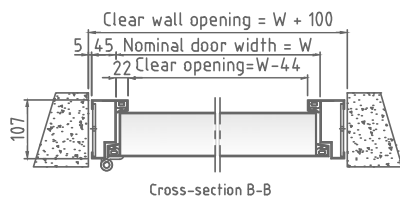
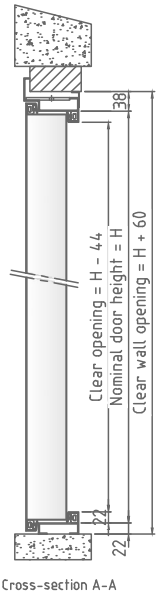
Double leaf door  
Drawn DIN Left



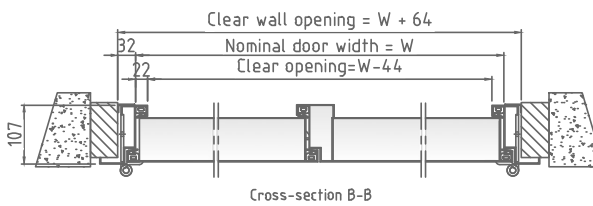
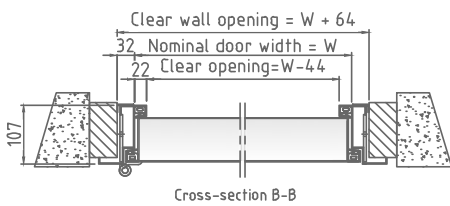
BLOCK FRAME  
(Standard)



CORNER FRAME  
(Optional)

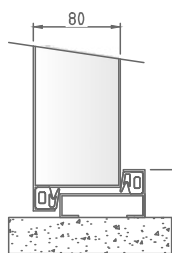


BLOCK FRAME  
(Standard)

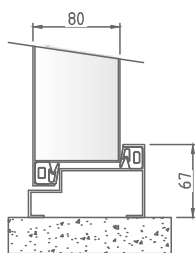


CORNER FRAME  
(Optional)

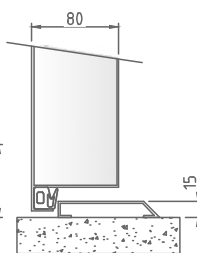
## THRESHOLD



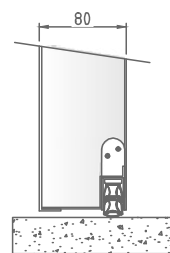
Type B  
Double sealing  
(Standard)



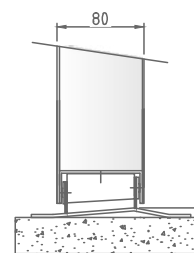
Type C  
Around block frame  
(Optional)



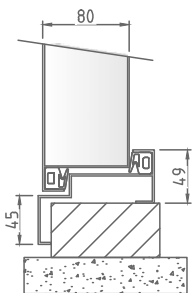
Type E  
Low threshold  
(Optional)



Type F  
Drop seal  
(Optional)



Type G  
Hump sill  
(Optional)



Type H  
Around corner frame  
(Optional)