

Louvre wall system

DUCO Ventilation & Sun Control

DucoWall Screening Acoustic

Omschrijving

DucoWall Screening Acoustic is a sturdy aluminium louvre wall system with acoustic damping. There is a choice between two different louvre blade pitches. The acoustic damping can be further improved by applying the Double Bank, where an additional blade is clicked on at the back. In this way, the louvre wall can be adapted to the wishes and needs of any project. Installation is quick, as the blades are placed directly on the mullion.

Version

Blade

- Shape of blade Single Bank: DWSA 150 Front
 Double Bank: DWSA 150 Front + DWSA 110 Back
- Pitch 112.5 mm
 150 mm
- Blade height 192 mm
- Blade depth 238 mm

Mullion

- Mullion 40/21 (Double)
 - Fixing directly to the underlying structure.
 - Without free span.
- Mullion 40/70 Double and 40/100 Double
 - Fixing to the underlying structure with the supplied L-profiles.
 - Suitable for free span.

Type	Installation depth (mm)	
	Single Bank	Double Bank
40/21 (Double)	162	238
40/70 Double	212	238
40/100 Double	242	242

Accessories (+options)

- Insect mesh frame 2.3 x 2.3 mm

Material and surface treatment

Blade

- Aluminium EN AW-6063 T66 (EN 573-3)
Profile thickness: min. 1.5 mm
- Finish
 - Polyester powder coated (60-80 µm) according to Qualicoat Seaside type A (specific RAL codes or textured paint on request)

Mullions

- Aluminium EN AW-6063 T66 (EN 573-3)
Profile thickness: min. 1.5 mm
- Finish
 - Polyester powder coated (60-80 µm) according to Qualicoat Seaside type A (specific RAL codes or textured paint on request)

Technical specifications

Reaction to fire

AS-s1,d0 (EN 13501-1)

Fire resistance

Damping material: non-combustible (NEN 6064)

Free area

Feature	Single Bank 112		Double Bank 112		Single Bank 150		Double Bank 150	
	STD	+OPT	STD	+OPT	STD	+OPT	STD	+OPT
Visual free area	66 %	66 %	66 %	66 %	74 %	74 %	74 %	74 %
Visual free area	25 %	25 %	25 %	25 %	35 %	35 %	35 %	35 %

Flow rates

Feature	Single Bank 112		Double Bank 112		Single Bank 150		Double Bank 150	
	STD	+OPT	STD	+OPT	STD	+OPT	STD	+OPT
Ce	0.254	0.226	0.197	0.182	0.295	0.252	0.211	0.200
K-factor intake	15.50	19.58	25.77	30.19	11.49	15.75	22.46	25.00
Cd	0.253	0.231	0.196	0.175	0.290	0.251	0.193	0.175
K-factor exhaust	15.62	18.74	26.03	32.65	11.89	15.87	26.85	32.65

According to EN 13030

Water resistance

Velocity v (m/s)	Single Bank 112		Double Bank 112		Single Bank 150		Double Bank 150	
	STD	+OPT	STD	+OPT	STD	+OPT	STD	+OPT
0	B	B	A	A	C	B	B	A
0.5	C	B	B	A	D	C	B	A
1	C	C	C	A	D	C	C	A
1.5	D	C	C	B	D	D	C	B
2	D	D	D	C	D	D	D	C
2.5	D	D	D	D	D	D	D	D
3	D	D	D	D	D	D	D	D
3.5	D	D	D	D	D	D	D	D

According to EN 13030

Attenuation value

in dB	Single Bank 112	Double Bank 112	Single Bank 150	Double Bank 150
Rw (C;Ctr)	14 (-1;-4)	11 (0;-2)	17 (-1;-4)	15 (-1;-3)
125 Hz	5.5	5.1	6.7	6.0
250 Hz	4.7	4.3	5.1	4.6
500 Hz	7.1	6.2	10.9	9.0
1000 Hz	14.9	12.5	21.8	18.5
2000 Hz	21.2	14.0	34.1	23.7
4000 Hz	17.3	11.9	27.2	20.2

Impact resistance*

Class	Impact front Single & Double Bank 112 & 150	Impact rear Single & Double Bank 112 & 150
EN 13049	5	5
NF P08-302	H2	C2

* Additional mounting of 2 fall-through protection brackets per blade.

Fall-through protection*

Class	Single & Double Bank 112 & 150
B03-004	A/B/C1-4/D
NEN-EN 1991-1-1	A/B/F/G
BS 6180	XI

* Additional mounting of 2 fall-through protection brackets per blade.

Strength calculation

According to EN 1990, EN 1991, EN 1999