

Recessed mounted wall louvre

DUCO Ventilation & Sun Control

Duco Acoustic Panel 500HP

Description

Duco Acoustic Panel 500HP is a sound absorbing recessed mounted wall louvre, manufactured from aluminium extrusion profiles. The blades are placed in an aluminium frame and are fitted with sound absorbing, non-combustible mineral wool on the inside.

Version

Blade

- Shape of blade Acoustic 300
- Pitch 150 mm

Frame

- Frame width 25 mm
- Flange depth 37 mm
- Frame depth 467 mm
- Drainage standard bottom of sill sloping downwards towards the outside inclination 5°

Fastening

- To the side, through holes provided in the side plates of the module (diameter 5.5 mm, countersunk).
- Fastening materials depend on the underlying structure (not supplied by DUCO).

Accessories (+ options)

- Additional frame with insect mesh 2.3 x 2.3 mm.
- Additional frame with pest-proof mesh 6 x 6 mm.
- Additional frame with bird-proof mesh 20 x 20 mm.

Material and surface treatment

Blade

- Aluminium EN AW-6063 T66
 Profile thickness: min. 1.5 mm
- Finish
 - Natural anodised (15-20 µm) according to Qualanod
 - Polyester powder coated (60-80 µm) according to Qualicoat Seaside type A (specific RAL codes or textured paint on request)

Side plates

- Aluminium AlMg3
 Plate thickness: 3 mm
- Finish
 - Natural anodised (15-20 µm) according to Qualanod
 - 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

Damping material: A1 (EN 13501-1)

Fire resistance

Damping material: non-combustible (NEN 6064)

Free area

Feature	Duco Acoustic Panel 500HP	
	STD	+OPT
Visual free area	75 %	75 %
Physical free area	31 %	31 %

Flow rates

Feature	Duco Acoustic Panel 500HP	
	STD	+OPT
Ce	0.256	0.244
K-factor intake	15.26	16.80
Cd	0.248	0.237
K-factor exhaust	16.26	17.80

Water resistance

Velocity v (m/s)	Duco Acoustic Panel 500HP	
	STD	+OPT
0	C	C
0.5	C	D
1	D	D
1.5	D	D
2	D	D
2.5	D	D
3	D	D
3.5	D	D

Attenuation value

in dB	Duco Acoustic Panel 500HP
Rw (C;Ctr)	21 (-2;-5)
125 Hz	6.7
250 Hz	8.7
500 Hz	18.5
1000 Hz	21.6
2000 Hz	26.7
4000 Hz	27.9

Impact resistance*

Class	Duco Acoustic Panel 500HP
EN 13049	5
NF P08-302	Q4

* Depending on fastening and dimensions.

Fall-through protection*

Class	Duco Acoustic Panel 500HP
B03-004	C5b
NEN-EN 1991-1-1	A/B/F/G
NF P01-013	C1-C5/D
BS 6180	XI

* Depending on fastening and dimensions.

Please consult your regional dealer or the DUCO “Ventilation & Sun Control” project department for commercial and technical support (mounting instructions, parts lists, calculations ...).