

Datasheet

Acoustic louvers AL-R/150 - 300 - 300V - 600V

Dimensions

Standardized and custom-made models are available - the acoustic louvers are available in almost any size. Up to a width x height = 2.450 x 2.850 mm the louvers are produced in one piece. Larger louvers are supplied in parts.

Absorption material

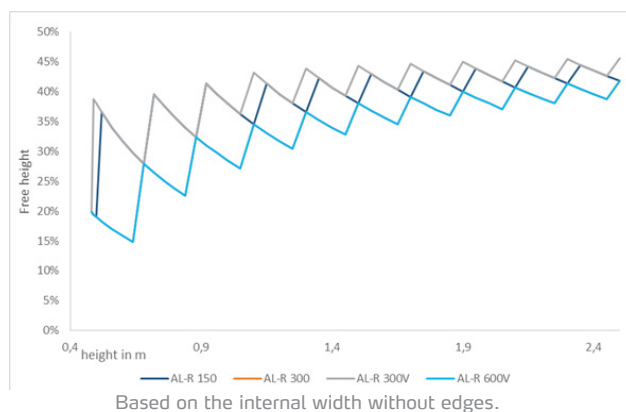
The high-quality absorption material is fire-resistant in accordance with DIN 4102 class A2.

Properties

High sound attenuation, limited depth for built-in element, low air resistance, many designs possible, low maintenance and durable, aesthetic added value due to identical appearance of louvers with different insulation values.

Pressure loss

In the below graphs the free area can be found. The speed between the blades can be calculated with the formula: $v_s = \frac{q_v}{36 \cdot B \cdot H \cdot VD}$ (m/s) Where v_s = air speed between blades (m/s) q_v = air flow (m³/uur) B = louver width (m) H = louver height (m) VD = free area [%] Subsequently, the pressure loss at the air speed can be read from the graph on the right. These pressure losses are based on a surface in the front mounted louver. Depending on the positioning the pressure loss may deviate 5 to 10%.



Applicable in combination with

Ventilator plenums, multileaf dampers, fire dampers, dust-/sand traps and drip catchers. Resistant to birds, rain and/or snow. Model as roof hood is possible.

Flange

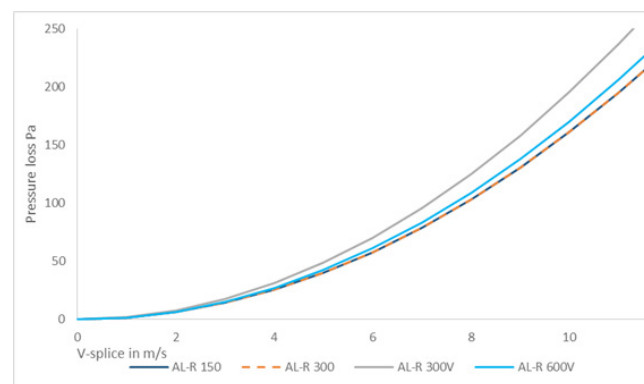
Supplied with flange assembled in accordance with your specifications, delivered separately or without flange.

Material

Manufactured from galvanized steel, corrosion resistant steel or (seawater resistant) aluminium.

Preservation

In-house blasting and preservation is possible (powder coating, primer and wet paint).



Insertion loss

According to ISO 7235:2003 (Peutz report A 1659-1):

	63	125	250	500	1k	2k	4k	8k
AL-R/150	5	5	7	9	13	13	12	12
AL-R/300	7	7	9	14	21	22	16	14
AL-R/300V	8	6	9	15	22	24	23	24
AL-R/600V	8	10	13	23	38	39	32	30

Air borne sound insulation

According to ISO 140-3:1995 (Peutz report A 1659-1):

	63	125	250	500	1k	2k	4k	8k	R _w (C, C _v)
AL-R/150	7	7	8	10	13	13	12	12	12 (0,-1)
AL-R/300	10	8	10	14	21	22	16	14	19 (-1,-3)
AL-R/300V	10	7	9	15	22	24	23	24	20 (-1,-4)
AL-R/600V	12	8	14	24	38	40	32	30	27 (-2,-7)

Dimensions

Standardized and custom-made models are available - the acoustic louvres are available in almost any size. Up to a width x height = 2.450 x 2.850 mm the louvres are produced in one piece. Larger louvres are supplied in parts.

