

RENSON LINIUS® L.150ACS

SPECIFICATION SHEET

LINIUS® L.150ACS is a ventilation system composed of continuous louvres with the following essential characteristics:

- Acoustic Performance

According to :

- EN ISO 140-1:1997 + A1:2004
- EN 20140-3:1995 + A1:2004
- EN ISO 717-1:1996 + A1:2006
- Tested with dimensions width x height = 1.23m x 1.48m
- Sound reduction index R_w ($C;C_{tr}$) = 11 (-1;-2)
- Sound reduction related to frequency :

f (Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
R in dB	8,3	6,9	3,7	3,2	3,6	3,3	4,7	6,4	8,1	11,3	13,4	14,2	14,5	13,8	13,2	12,4

- To be submitted: independent test report (IFT-Rosenheim no.164 38195/3e)

- airflow

- physical free area: 34%
- visual free area: 54%
- aerodynamic properties according to EN 13030:2001 (with mesh 2.3 x 2.3 mm), tested with dimensions width x height = 1m x 1m.
 - resistance factor entry $K = 1/c_e^2 = 38.58$; $c_e = 0.161$
 - resistance factor discharge $K = 1/c_d^2 = 35.01$; $c_d = 0.169$
- To be submitted : independent test report (BSRIA, 53928/1)

- Weatherability (EN 13030:2001)

- with mesh 2.3 x 2.3 mm and sill
 - class A at 0.0 m/s air entry or anytime air discharge
 - class B at 0.5 m/s air entry
 - class C at 1.0 m/s air entry
- documents to be submitted : independent test report (BSRIA, 53928/1)

- aesthetically appealing

- visual protection
 - horizontally visually closed by applying a blade pitch which does not exceed the blade height
 - blade pitch: 150 mm
 - blade height: 239 mm
- invisible assembly with aluminium blade clips

- stability

- impact of wind forces :
 - C_{fx} : 1,36 (drag - horizontal)
 - C_{fy} : 1,09 (lift - vertical)
- max. unsupported blade span at a peak velocity pressure $q_p(z)$ of 800 Pa: 2.858 mm
- supporting structure
 - type of mullion and number of mullions are to be provided according to the designed span and the local wind load
 - preferably in aluminium, as part of the continuous louvre system

- materials:

- extruded aluminium profiles (AlMgSi0.5, EN AW 6063 T66)
- surface treatment:
 - anodised in natural colour EV6/EV1 (20 micron): pretreated and anodised
 - OR**
 - polyester powder coating in RAL colour according to the Qualicoat standard

- options

- wire mesh 2.3 x 2.3 ; 6 x 6 of 20 x 20 mm, fitted to the rear of the supporting structure
- threshold profile LZ.4140