

# RENSON LINIUS® L.150ACL SPECIFICATION SHEET

LINIUS® L.150ACL 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  $R_w (C;C_{tr}) = 15 (-1;-4)$
- 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	9,4	8,7	4,8	4,9	4,5	5,2	6,8	9,1	11,3	15,2	18,2	20,8	22,5	23,7	20,6	17,2

- To be submitted: independent test report (IFT-Rosenheim no.164 38195/8e)

## - airflow

- physical free area: 34%
- visual free area: 54%
- aerodynamic properties according to EN 13030:2001  
CFD on louvre dimensions width x height = 1m x 1m.
  - resistance factor entry  $K = 1/c_e^2 = 37.3$  ;  $c_e = 0.164$
  - resistance factor discharge  $K = 1/c_d^2 = 41.9$  ;  $c_d = 0.150$

## - 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: 328 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: 2.800 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