**RENSON LINIUS® L.033.01**

**SPECIFICATION SHEET**

LINIUS® **L.033.01** is a ventilation system composed of continuous louvres with the following essential characteristics:

* **aesthetically appealing** 
  + visual protection
    - horizontally visually closed by applying a blade pitch which does not exceed the blade height
    - blade pitch: 33.33 mm
    - blade height: 37 mm
  + invisible assembly with aluminium blade clips
* **airflow**
  + physical free area: 50%
  + visual free area: 60%
  + aerodynamic properties according to EN 13030:2001 (with mesh 2.3 x 2.3 mm)
    - resistance factor entry K = 1/ce² = 20.47 / Ce = 0.221
    - class 3
  + documents to be submitted : independent test report in accordance with EN 13030:2001 to determine the aerodynamic properties (BSRIA, 101477/1)
* **Weatherability** (EN 13030:2001)
  + with mesh 2.3 x 2.3 mm and threshold profile
    - class A at 0.5 m/s air entry
    - class B at 1.0 m/s air entry
  + documents to be submitted : independent test report in accordance with EN 13030:2001 to determine the aerodynamic properties (BSRIA, 101477/1)
* **stability**
  + impact of wind forces :
    - Cfx : -1,61 (drag - horizontal)
    - Cfy : 0,73 (lift - vertical)
    - documents to be submitted : independent report of wind tunnel measurenments of the aerodynamic forces on louvres. (VUB - 2018)
  + strength of blade connection:
    - documents to be submitted : independent test report to determine the strength of the blade connection (TÜV)
  + max. unsupported blade span at a peak velocity pressure qp(z) of 800 Pa: 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
  + pre-assembled pivoting ventilation doors with linear blades (see separate description)