**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)