RENSON®

Creating healthy spaces

patented technology

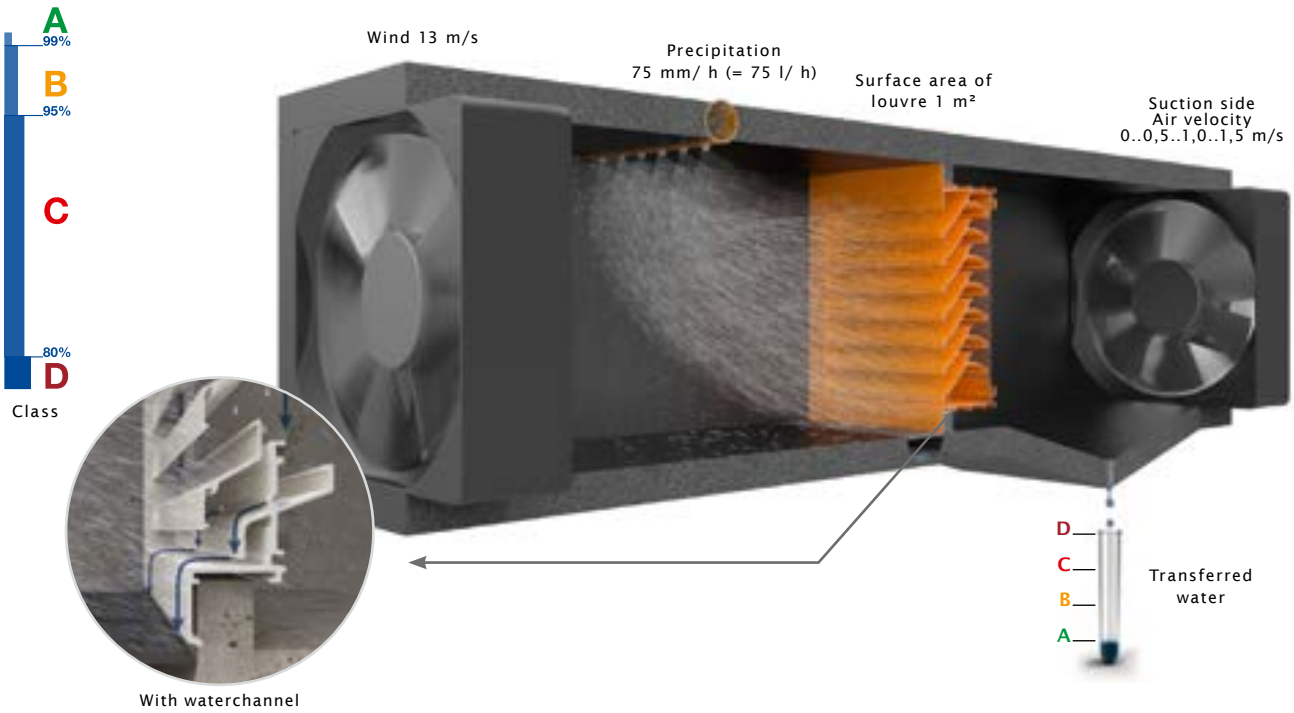
Weatherable louvre panel + continuous louvre system

Type 450 | Linius L.050W

Method for watertightness (HEVAC) testing

The Renson louvre panel 450 and Continuous louvre system L.050W have been subjected to European HEVAC testing (according to EN 13030) by the internationally accredited corporation BSRIA Ltd. During these tests, a louvre equipped with stainless steel insect mesh of 1m² was subjected to heavy rain by being sprayed with water at a rate of 75 litres per hour at a wind speed of 13 meter/second and at a distance of 1 meter. Moreover, a second strong fan at the backside of the louvre generates suction airspeed that is augmented incrementally.

Attention: The reference “air speed” in this document always refers to the air speed at suction side. In case a louvre gets classified a certain watertightness, this suction side air speed always needs to be indicated. The outside wind speed is fixed to 13m/s and is never mentioned.



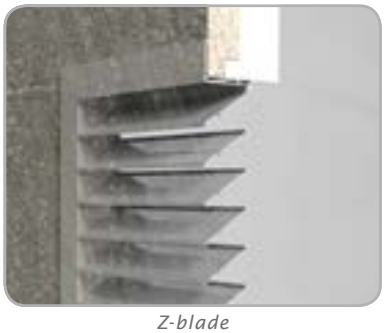
Superior weatherability + High airflow

V-blade

Good weatherability

450 + L.050W

Superior weatherability + Very high airflow



Z-blade

Very high airflow

The linius blade L.050W has the unique feature to combine a superior weatherability and a very high airflow. Other blades have only one high-class characteristic.

Louvre panel 450 + continuous louvre system L.050W

Patented louvre panel type 450 has the superior feature to combine a very high airflow with extreme weatherability. The blade L.050W can be mounted quickly and invisible on the mullions with a “click” system.

Material
- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Stainless steel 304 insect mesh (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request
- Finishing:
  - Louvre panel 450: powdercoated in any RAL (60 - 80 micron)
  - Contiuous louvre system L.050W: anodized (20 micron) or powdercoated in any RAL (60 - 80 micron)
- Louvre 450 as standard equipped at top and bottom with waterchannel
- Louvre 450 equipped with flange
- Fixed blade pitch of 50 mm with minimum height of 225 mm

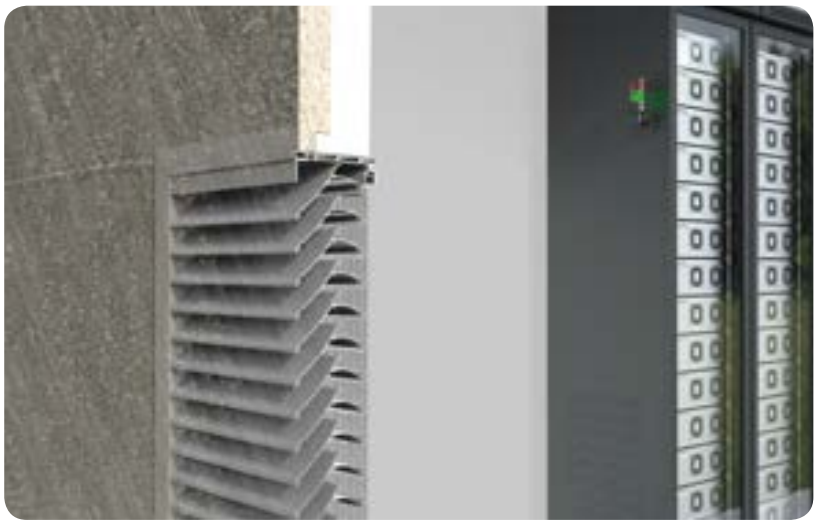
Type 450

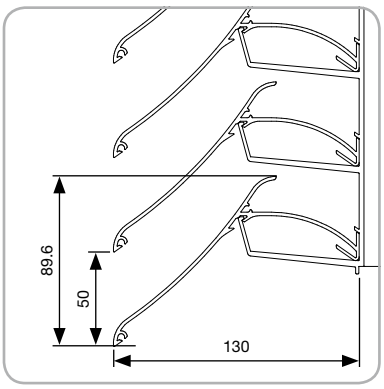
Dimensions
- Blade pitch: 50 mm
- Blade depth: 130 mm
- Depth to fit: 159 mm
- Flange size: 38 mm
- Minimum dimensions: 200 x 225 mm

Fixing
- Louvre panel 450: brackets ref. 1428 included
- Linius L.050W: available with weatherable frame profile

Typical applications
- Data centres
- Power plants
- Emergency power stations
- IT applications

Linius L.050W





L.050W

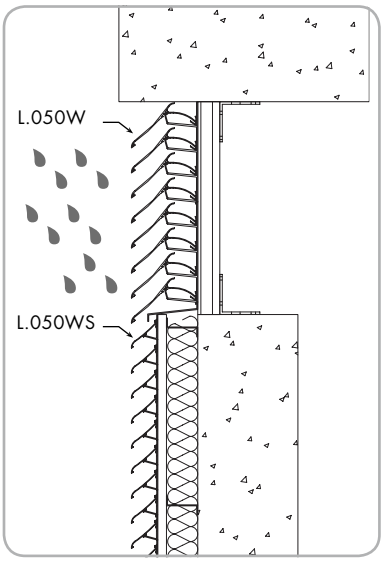
Technical specifications	
Weatherability	A2 up to 3,0 m/s
Physical free area	57%
K-factor (supply)	10,47
K-factor (discharge)	16,52
C_e coefficient	0,309
C_d coefficient	0,246
Maximum unsupported span between two mullions for Linius L.050W (at qb 800 Pa wind pressure)	1900 mm

Linius® Type L.050WS

Blade L.050WS has a very high airflow and can be perfectly combined with extremely weatherable blade L.050W. L.050WS is the perfect solution for applications where high airflow is required and weatherability is less important.

Technical specifications

	L.050W	L.050WS
Pitch	50 mm	50 mm
Depth	130 mm	50 mm
Height	90 mm	55 mm
Watertightness	A2 up to 3,0m/s	-
Physical free area	57%	59%
K-factor (supply)	10,47	6,09
- C_e-coefficient	0,309	0,406
- C_d-coefficient	0,246	0,382
Maximum unsupported span between two mullions (at qb 800 Pa wind pressure)	1.900 mm	950 mm



Combination with blade Linius L.050W and L.050WS blade

How to select the correct louvre for your application?

Website uk.renson.eu

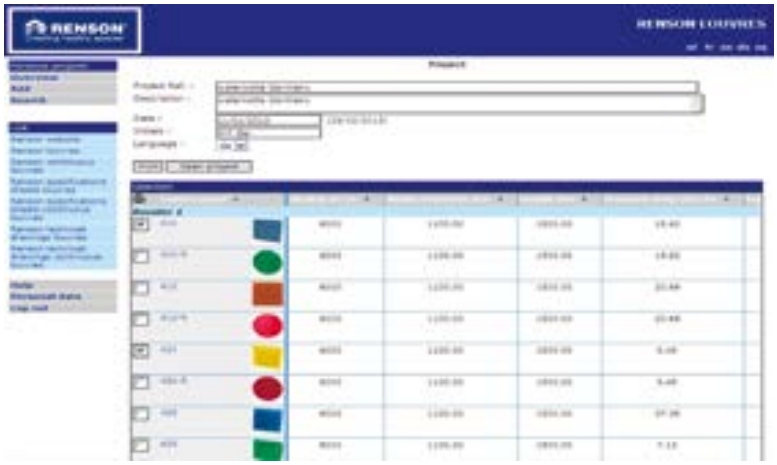
On the website **http://uk.renson.eu** you can find an overview of all louvres including technical drawings, leaflets and product summaries (NBS specs).

Selection software

Selection and calculation of the right louvre making use of the louvre software available on the download page of the Renson website.
http://uk.renson.eu/downloads-united-kingdom.html

Making use of at least two of the following parameters, you will be able to make the selection of the best suitable louvre for your application.

- Surface of the opening
- Pressure drop over the louvre in Pa
- Required airflow in m³/h



Dealer

RENSON® reserves the right to make technical changes to the products shown.
The most recent versions of our brochures can be downloaded from www.renson.eu

RENSON® Fabrications LTD • Fairfax Unit 1-5 • Bircholt Road
Parkwood Industrial Estate • Maidstone • Kent ME15 9SF • Tel. 01622/754123 • Fax 01622/689478 • info@rensonuk.net • www.renson.eu

RENSON® Contact - Export Dept.: Tel. 0032 56 62 71 04 • export@renson.net

RENSON® Ventilation • IZ 2 Vijverdam • Maalbeekstraat 10 • 8790 Waregem • Belgium
Tel. +32 (0)56 62 71 11 • Fax +32 (0)56 60 28 51 • info@renson.be • **www.renson.eu**

* L 3 0 0 5 0 7 4 *
RENSON®
VENTILATION
SUNPROTECTION
© L3005074 02/13 UK-engels