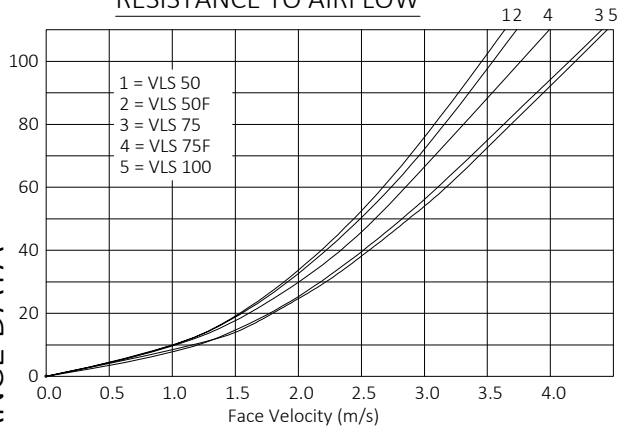




Drawing No.
G.A. 950/C/01

CONTOUR DESIGN PARAMETERS

RESISTANCE TO AIRFLOW



1 = VLS 50
2 = VLS 50F
3 = VLS 75
4 = VLS 75F
5 = VLS 100

Test performed by BSRIA to EN 13030.
All results shown include insectmesh/birdmesh.

Classification Nonmenclature

The internationally recognised HEVAC test is conducted by BSRIA to the standard EN13030: 2001. This measures water penetration at a given face velocity (specifically not core velocity) whilst subjected to a 13m/s simulated wind velocity and a simulated rain fall of 75mm/hr.

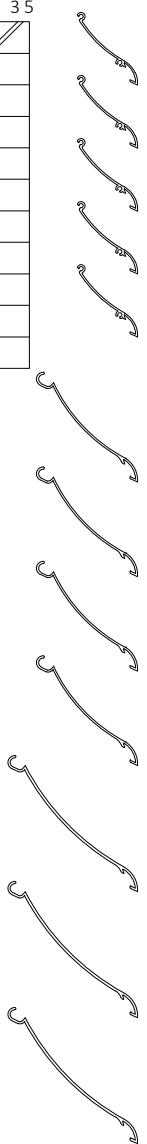
Penetration Classification

Class	Effectiveness	
A	99 - 100%	Maximum allowed penetration of simulated rain. Litre/hour/m ²
B	95 - 98.9%	
C	80 - 94.9%	
D	0 - 79.9%	

Discharge Loss Coefficient Classification

Class	Discharge loss coefficient	
1	>0.4	A higher cd figure represents a lower resistance to air flow
2	0.30 - 0.399	
3	0.20 - 0.299	
4	<0.199	

VENTILATION LOUVRE PERFORMANCE DATA



VLS 50mm Pitch Blade

Louvre Coefficient 0.342
Louvre Coefficient with mesh 0.269
Nominal Free Area: 54.2%

Application: Used where good airflow and weatherability are both required. Aesthetically positioned at lower level where the smaller pitch can be more visually appreciated. Small overall depth allows more application freedom.

Vent windspeed (m/s)	0	0.5	1.0	1.5	2.0	2.5
Class rating	A3	B3	B3	C3	C3	D3

VLS 75mm Pitch Blade

Louvre Coefficient 0.44
Louvre Coefficient with mesh 0.31
Nominal Free Area: 58.3%

Application: Used where especially good airflow required and weatherability allows for a little water ingress under storm conditions. Aesthetically positioned at either high or low level. A good 'all-round' blade suitable for most applications.

Vent windspeed (m/s)	0	0.5	1.0	1.5	2.0	2.5
Class rating	A2	B2	B2	C2	C2	D2

VLS 100mm Pitch Blade

Louvre Coefficient 0.449
Louvre Coefficient with mesh 0.315
Nominal Free Area: 60.1%

Application: Used where especially good airflow required and weatherability allows for water ingress under storm conditions. Aesthetically positioned at higher level.

Vent windspeed (m/s)	0	0.5	1.0	1.5	2.0
Class rating	A2	B2	C2	C2	D2

VLS 50mm Pitch Flat Blade

Louvre Coefficient 0.314
Louvre Coefficient with mesh 0.274
Nominal Free Area: 58.4%

Application: Used where good airflow and weatherability are both required. Aesthetically positioned at lower level where the smaller pitch can be more visually appreciated. Small overall depth allows more application freedom.

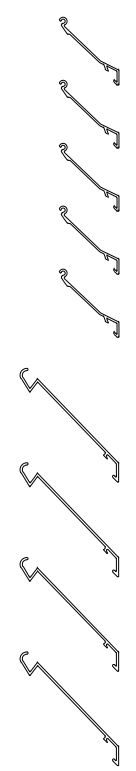
Vent windspeed (m/s)	0	0.5	1.0	1.5	2.0	2.5
Class rating	A3	B3	B3	C3	C3	D3

VLS 75mm Pitch Flat Blade

Louvre Coefficient 0.44
Louvre Coefficient with mesh 0.286
Nominal Free Area: 54.3%

Application: Used where especially good airflow required and weatherability allows for a little water ingress under storm conditions. Aesthetically positioned at either high or low level. A good 'all-round' blade suitable for most applications.

Vent windspeed (m/s)	0	0.5	1.0	1.5	2.0	2.5
Class rating	A3	B3	B3	C3	C3	D3



Specification:

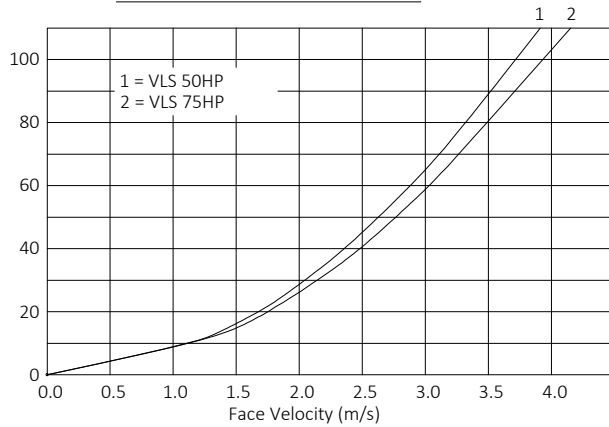
Material: Aluminium extrusion grade 6063 T6
Finish: Polyester powder coated to RAL.... , average 60 microns / anodised AA25 / mill finish / PVDF.

Notes:

See Drawing No. G.A.950/HP/01 for High Performance Louvres.

Address: White House Works, Bold Road, St. Helens, Merseyside, United Kingdom, WA9 4JG
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Email: Info@levolux.com Website: www.levolux.com
Registered in England No: 1834176

RESISTANCE TO AIRFLOW



Test performed by BSRIA to EN 13030.
All results shown include insectmesh/birdmesh.

Classification Nonmenclature

The internationally recognised HEVAC test is conducted by BSRIA to the standard EN13030: 2001. This measures water penetration at a given face velocity (specifically not core velocity) whilst subjected to a 13m/s simulated wind velocity and a simulated rain fall of 75mm/hr.

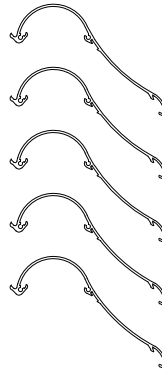
Penetration Classification

Class	Effectiveness	
A	99 - 100%	
B	95 - 98.9%	Maximum allowed penetration of simulated rain. Litre/hour/m ²
C	80 - 94.9%	
D	0 - 79.9%	

Discharge Loss Coefficient Classification

Class	Discharge loss coefficient	
1	>0.4	
2	0.30 - 0.399	A higher cd figure represents a lower resistance to air flow
3	0.20 - 0.299	
4	<0.199	

CONTOUR DESIGN PARAMETERS

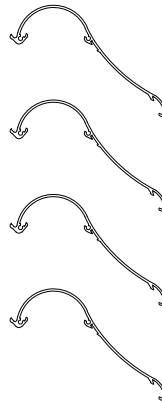


VLS 50HP 50mm Pitch Blade

Louvre Coefficient with mesh 0.288
Nominal Free Area: 52%

Application: High performance double pass vent louvre blade with the highest possible specification of combined weatherability and airflow. Zero vision through louvre.

Vent windspeed (m/s)	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5
Class rating	A3	A3	A3	A3	A3	B3	C3	C3



VLS 75HP 75mm Pitch Blade

Louvre Coefficient 0.308
Louvre Coefficient with mesh 0.303
Nominal Free Area: 58%

Application: High performance weather blade used where economy outweighs weatherability at high volume air flow.

Vent windspeed (m/s)	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5
Class rating	A2	A2	B2	B2	C2	C2	D2	D2



Drawing No.

G.A. 950/HP/01

Specification:
Material: Aluminium extrusion grade 6063 T6
Finish: Polyester powder coated to RAL..., average 60 microns / anodised AA25 / mill finish / PVDF.

Notes:
See Drawing No. G.A.950/C/01 for Ventilation Louvres.

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