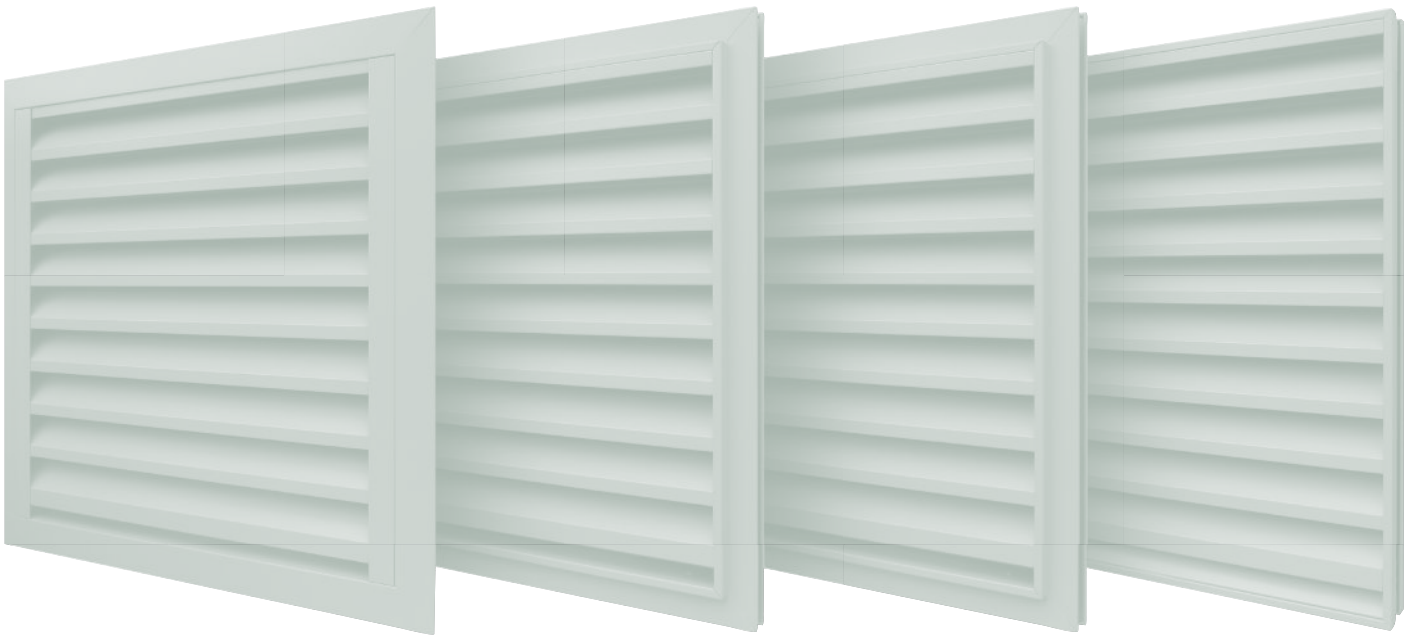


AVS50

Louvre System 2014

Product Data Sheet



General Description

The AVS50 is a medium format louvre system specifically designed for commercial projects where increased airflow and/or free area performances may be required.

Technical Details

Materials

- Manufactured With Extruded Aluminium Alloy to 6063 T6 (UK Sourced)
- Mechanically Jointed Corners
- Profile thickness 1.5mm

Performance

- Refer to BSRIA performance evaluation data on pages 2-5
- 50% Free area based on louvre core (excludes top and bottom blade arrangements)
- Airflow performance Mean Ce 0.272 with Flyscreen / Ce0.257 with Birdguard

Dimensions

- 50mm Blade Pitch
- 60mm Depth o/all
- Glazing Rebate Height 30mm

Options

- 24 & 28mm Glazed-In Outer Frames
- Box Frame and Flanged Outer Frame
- Hybrid Surface Mounted Option
- Flyscreen (Stainless Steel or External Grade Black Fibreglass) or Birdguard
- Water Drainage Profile
- Enhanced Security Option
- Blanking Panels (Thermal or Standard)

Tel: 024 7646 7449 • Fax: 024 7646 9073

www.jackaluminium.co.uk • sales@jackaluminium.co.uk

Jack Aluminium Systems Ltd, Unit 5, Binns Close, Coventry, CV4 9TB

AVS50

Louvre System 2014

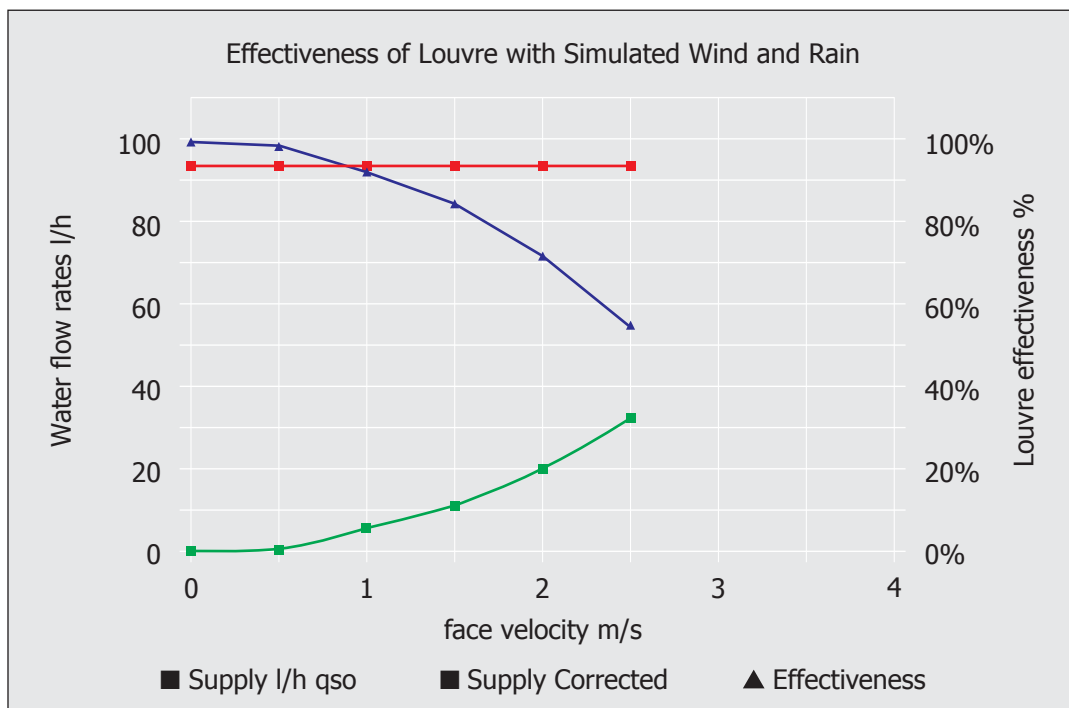
Performance Data 1



Classification from design tests undertaken by BSRIA on 12.08.2013 based on a 980 x 967 core louvre area (0.948m²).

Weathering Performance with Flyscreen:

VENTILATION RATE		WATER FLOW RATES		Effectiveness	Class
Volume m ³ /s	Velocity m/s	Supply l/h	Penetrated l/h		
0.00	0.00	93.0	1.0	98.6%	B
0.47	0.50	93.0	1.3	98.2%	B
0.95	1.00	93.0	6.1	91.4%	C
1.43	1.51	93.0	11.6	83.7%	C
1.89	2.00	93.0	20.3	71.5%	D
2.37	2.50	93.0	32.5	54.3%	D



Weathering performance data includes water drainage profile. Please consult AVS for performance excluding drainage profile.

Tel: 024 7646 7449 • Fax: 024 7646 9073

www.jackaluminium.co.uk • sales@jackaluminium.co.uk

Jack Aluminium Systems Ltd, Unit 5, Binns Close, Coventry, CV4 9TB

AVS50

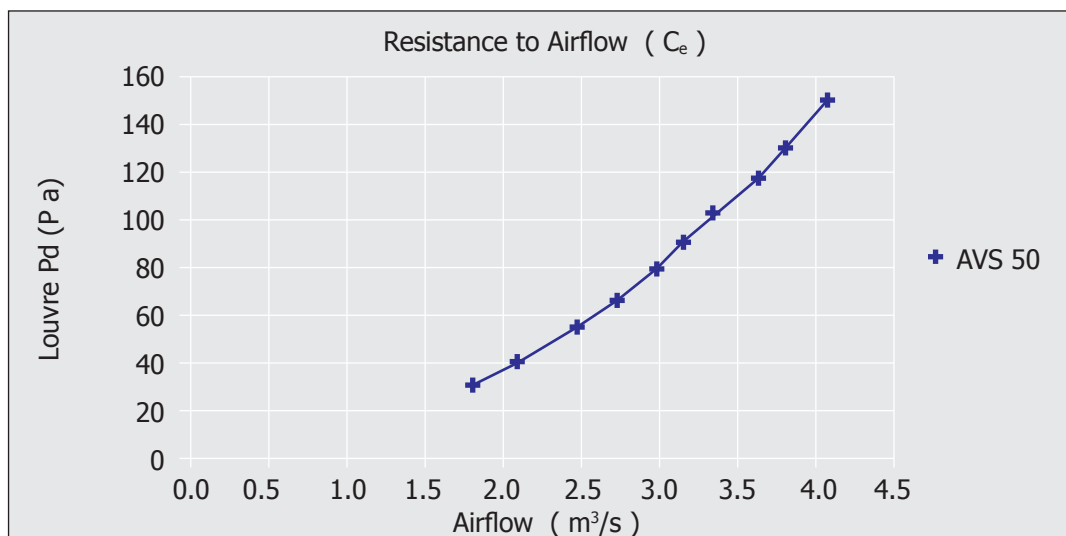
Louvre System 2014

Performance Data 2



Airflow Performance with Flyscreen:

Louvre pd Pascals	LOUVRE FACE VELOCITY		AIR FLOW RATE		Coefficient C _e	
	m/s		Test m ³ /s	Theoretical m ³ /s		
31.4	1.91		1.814	6.828	0.266	
41.2	2.23		2.113	7.821	0.270	
55.7	2.60		2.468	9.094	0.271	
67.3	2.88		2.730	9.996	0.273	
79.2	3.13		2.968	10.844	0.274	
90.9	3.32		3.148	11.617	0.271	
102.7	3.54		3.356	12.348	0.272	
117.6	3.82		3.620	13.213	0.274	
130.4	4.01		3.804	13.914	0.273	
150.7	4.30		4.076	14.958	0.273	
					mean C _e	0.272
					Class	3



NB. The theoretical airflow rate is based on the face area of the louvre with the blades removed, and the coefficient is the measured airflow rate divided by the theoretical airflow rate.

Tel: 024 7646 7449 • Fax: 024 7646 9073

www.jackaluminium.co.uk • sales@jackaluminium.co.uk

Jack Aluminium Systems Ltd, Unit 5, Binns Close, Coventry, CV4 9TB

AVS50

Louvre System 2014

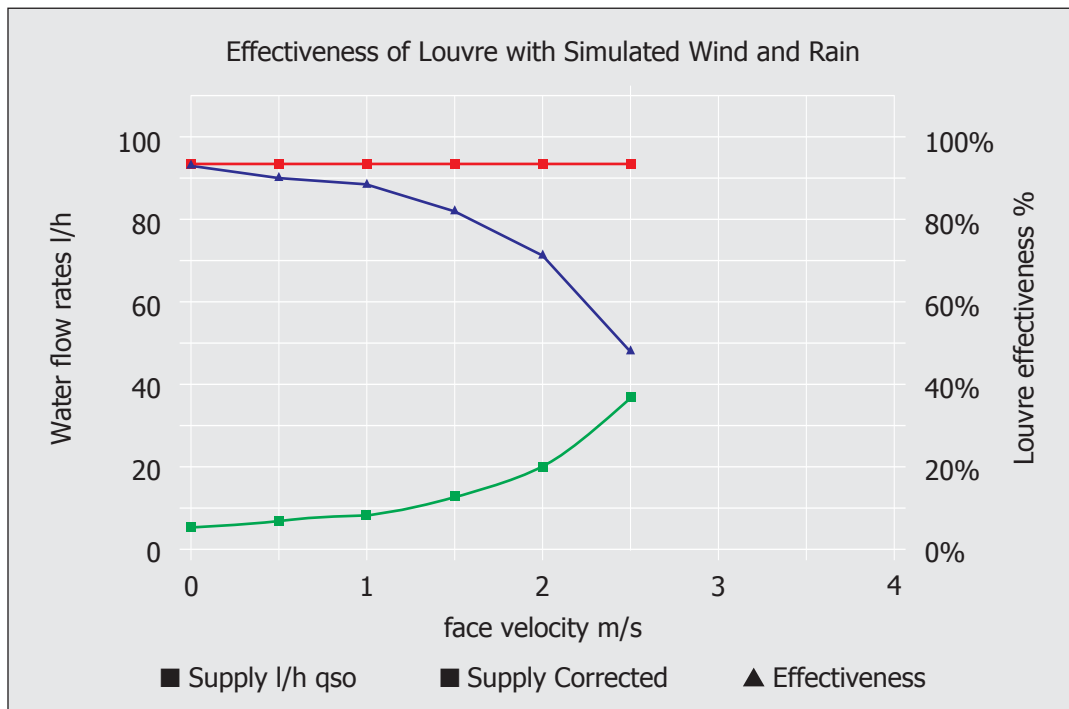
Performance Data 2



Weathering Performance with Birdguard:

Classification from design tests undertaken by BSRIA on 12.08.2013 based on a 980 x 967 core louvre area (0.948m²).

VENTILATION RATE		WATER FLOW RATES		Effectiveness	Class
Volume m ³ /s	Velocity m/s	Supply l/h	Penetrated l/h		
0.00	0.00	93.0	5.0	92.9%	C
0.47	0.50	93.0	6.9	90.2%	C
0.95	1.00	93.0	8.2	88.5%	C
1.42	1.50	93.0	12.7	82.2%	C
1.89	2.00	93.0	19.9	72.0%	D
2.37	2.50	93.0	36.6	48.4%	D



Weathering performance data includes water drainage profile. Please consult AVS for performance excluding drainage profile.

Tel: 024 7646 7449 • Fax: 024 7646 9073

www.jackaluminium.co.uk • sales@jackaluminium.co.uk

Jack Aluminium Systems Ltd, Unit 5, Binns Close, Coventry, CV4 9TB

AVS50

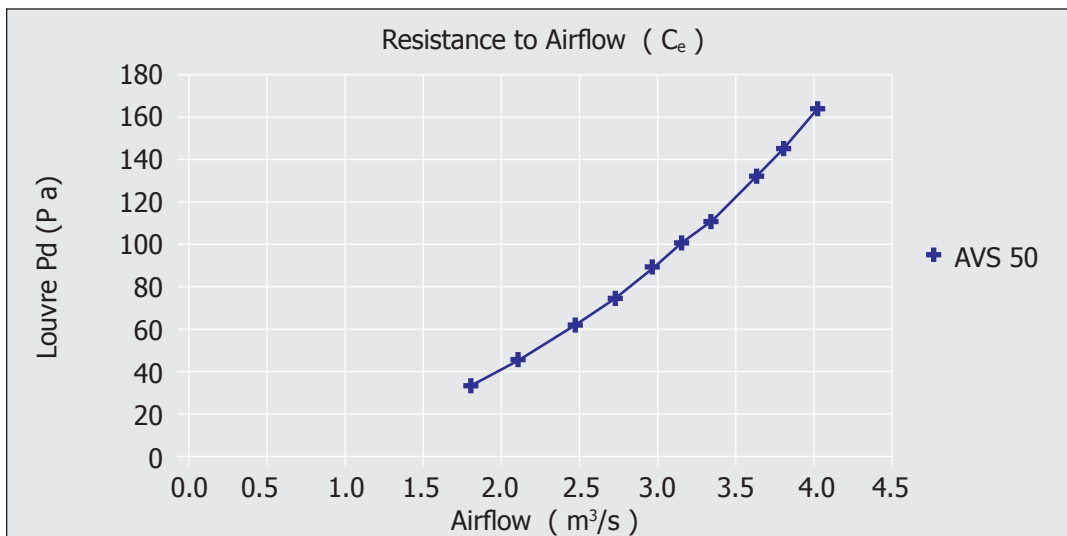
Louvre System 2014

Performance Data 2



Airflow Performance with Birdguard:

Louvre pd Pascals	LOUVRE FACE VELOCITY		AIR FLOW RATE		Coefficient C _e
	m/s		Test m ³ /s	Theoretical m ³ /s	
33.1	1.90		1.816	7.060	0.257
45.6	2.23		2.130	8.287	0.257
61.4	2.59		2.474	9.616	0.257
74.7	2.86		2.724	10.606	0.257
87.8	3.09		2.945	11.499	0.256
100.2	3.31		3.160	12.284	0.257
112.4	3.52		3.360	13.010	0.258
132.3	3.81		3.634	14.115	0.257
144.4	4.00		3.811	14.746	0.258
163.9	4.23		4.032	15.710	0.257
				mean C _e	0.257
				Class	3



NB. The theoretical airflow rate is based on the face area of the louvre with the blades removed, and the coefficient is the measured airflow rate divided by the theoretical airflow rate.

Tel: 024 7646 7449 • Fax: 024 7646 9073

www.jackaluminium.co.uk • sales@jackaluminium.co.uk

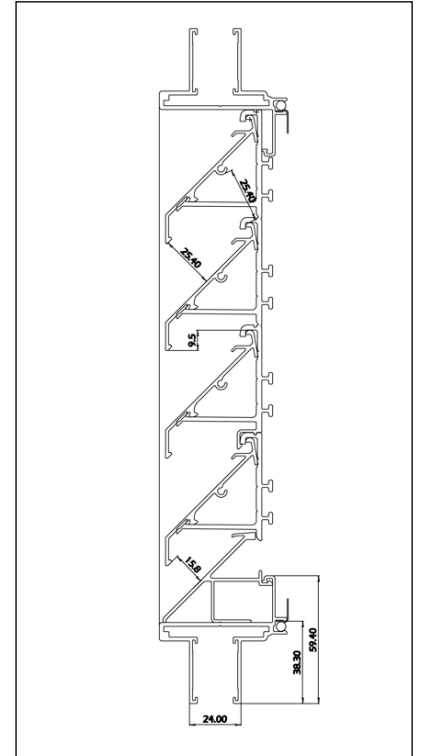
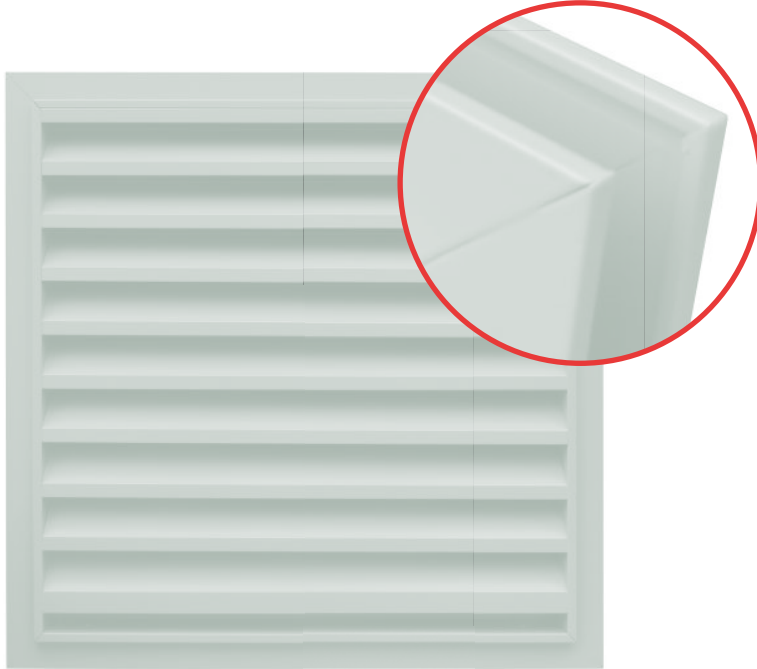
Jack Aluminium Systems Ltd, Unit 5, Binns Close, Coventry, CV4 9TB

AVS50

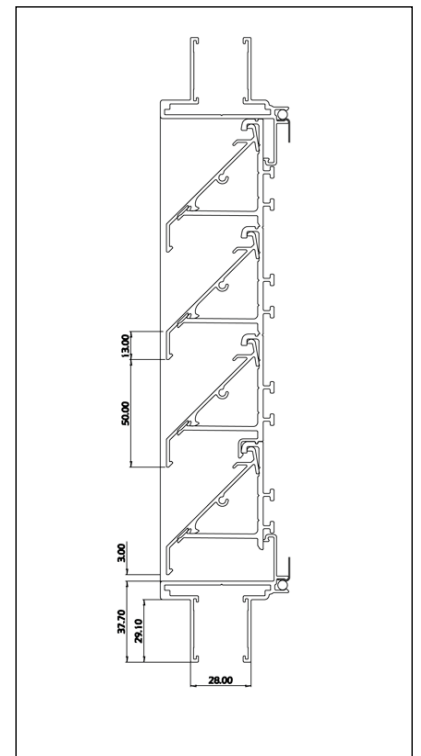
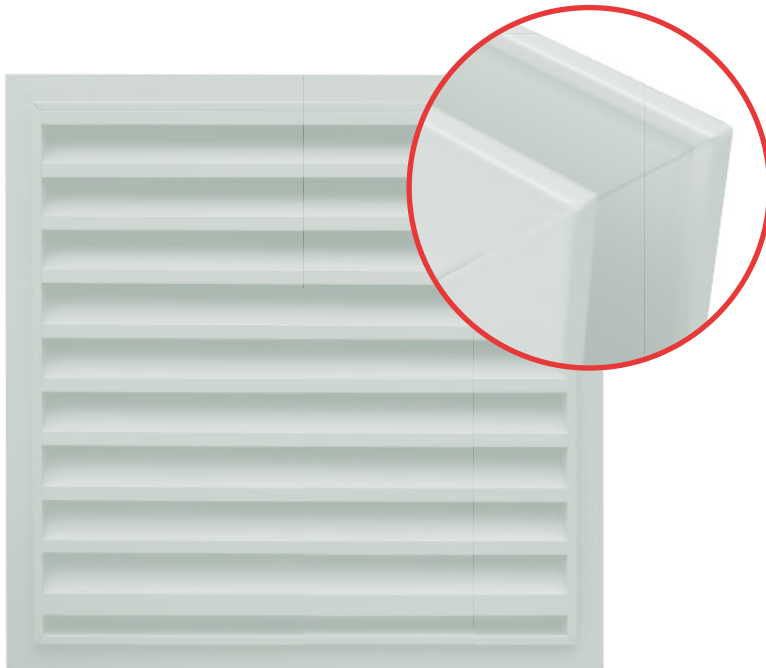
Louvre System 2014

Product Variants

AVS50 GL 24



AVS50 GL 28



Tel: 024 7646 7449 • Fax: 024 7646 9073

www.jackaluminium.co.uk • sales@jackaluminium.co.uk

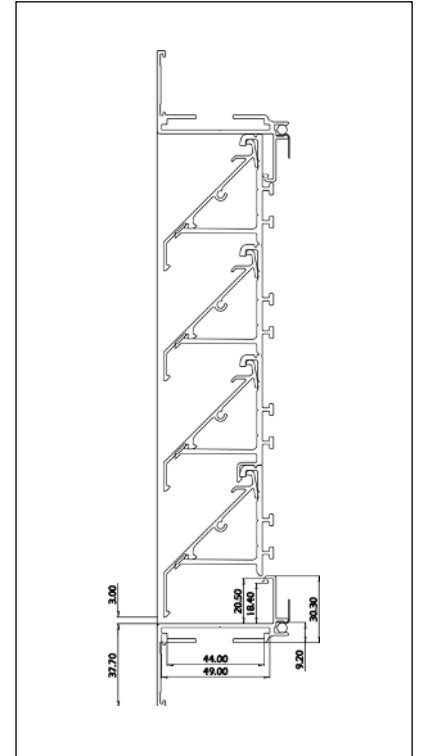
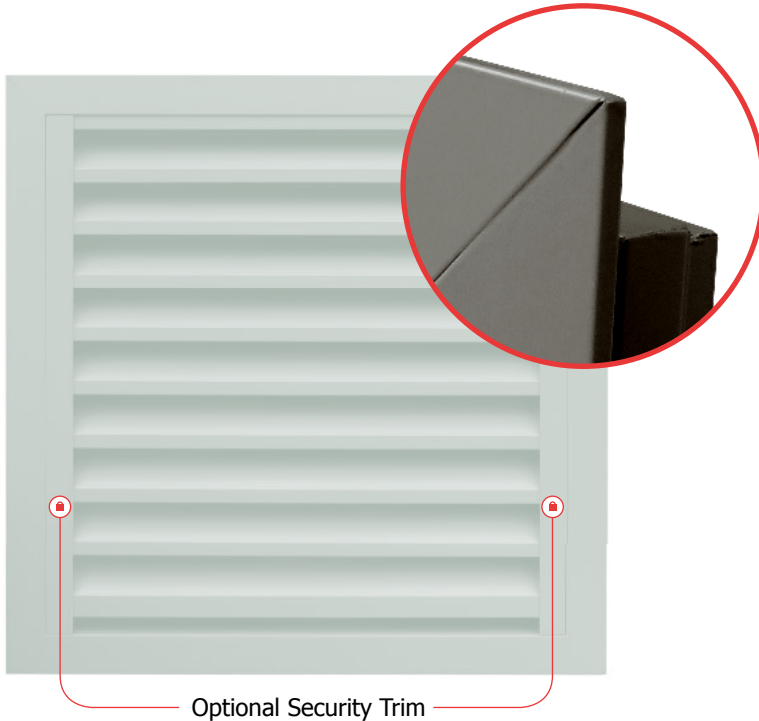
Jack Aluminium Systems Ltd, Unit 5, Binns Close, Coventry, CV4 9TB

AVS50

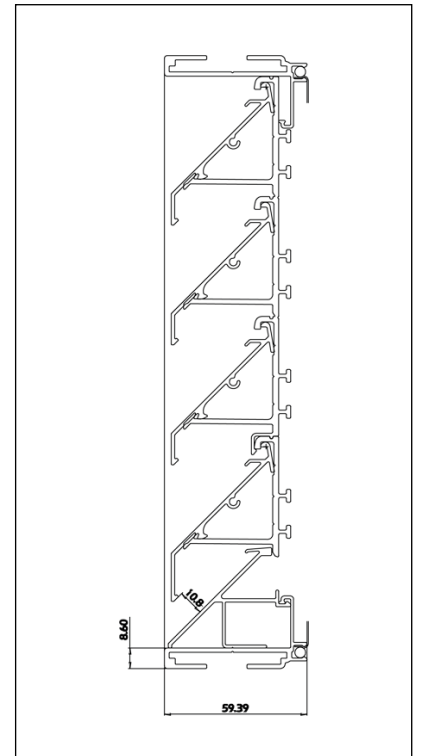
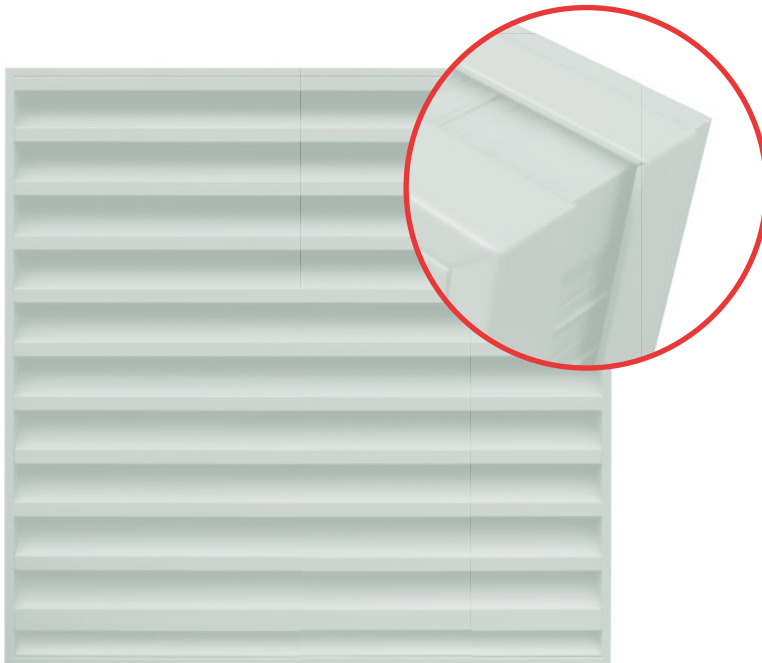
Louvre System 2014

Product Variants

AVS50 FL



AVS50 BF



Tel: 024 7646 7449 • Fax: 024 7646 9073

www.jackaluminium.co.uk • sales@jackaluminium.co.uk

Jack Aluminium Systems Ltd, Unit 5, Binns Close, Coventry, CV4 9TB