

AVS34

Product Data Sheet



General Description

The AVS 34 is a small format louvre system specifically designed for use within the window industry that has been extensively used in schools and higher education facilities, hospitals as well as a number of high profile residential and retail schemes.

Technical Details

Materials

- Extruded Aluminium alloy profiles to 6063 T6
- Profile thickness 1.5mm
- Mechanically jointed with Zintec corner chevrons

Performance

- Refer to BSRIA performance evaluation data on pages 2 & 3
- Independently Tested to BS 6180:2011 - Refer to Performance data on page 4
- 39.8% Free area based on louvre core (excludes top and bottom blade arrangements and any intervening blade carrying profiles)
- Mean Ce Factor 0.202 (Class 3)

Dimensions

- 34mm Blade Pitch
- Product depth 38mm o/all
- Glazed-in outer frames to suit as 24 ,28 and 32mm standard (alternative glazing thickness' available upon request)
- Glazing rebate height 24mm

Options

- 24 or 28 and 32mm Glazed-In Outer Frames as standard
- 3 Flanged Outer Frame Options
- Box and Surface Mounted Outer Frames
- Water Drainage Profile (recommended for exposed locations or where minimal water ingress is permissible)
- Fly screen options include nylon glass fibre as standard, Aluminium or Stainless Steel
- Birdguard
- Enhanced Security Option
- Blanking Panels – thermal (composite) or simple sheet blanking
- Coupling for extended runs

AVS34

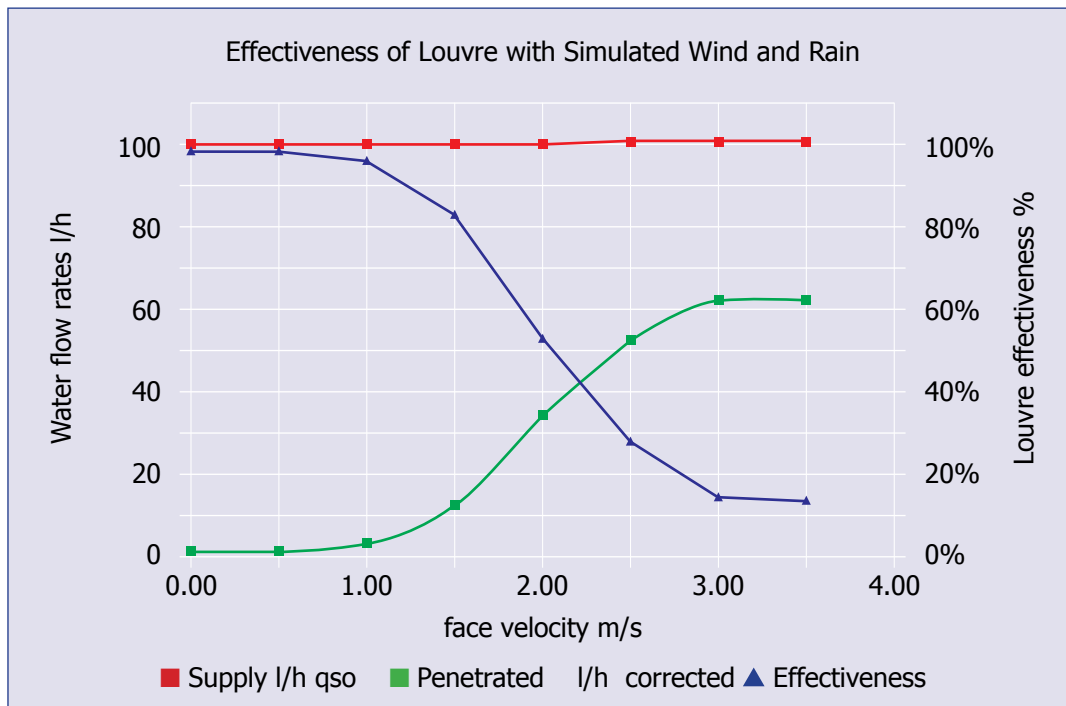
Performance Data 1



Classification from design tests undertaken by BSRIA based on a 980 x 980 core louvre area (0.960m²).

Weathering Performance with Flyscreen:

VENTILATION RATE		WATER FLOW RATES		Effectiveness	
Volume m ³ /s	Velocity m/s	Supply l/h	Penetrated l/h	With DP	No DP
0.00	0.00	100.1	0.7	99.0%	94.7%
0.48	0.50	100.1	0.9	98.8%	91.1%
0.96	1.00	100.1	2.7	96.2%	87.8%
1.44	1.50	100.1	11.9	83.5%	82.1%
1.92	2.00	100.1	33.4	53.6%	-
2.40	2.50	100.6	51.9	28.0%	-
2.88	3.00	100.6	61.9	14.1%	-
3.36	3.50	100.6	62.2	13.6%	-



Weathering performance data includes water drainage profile. Please consult AVS for performance excluding drainage profile. Performance testing is undertaken in line with BS EN 13030:2001 Ventilation for Buildings. Terminals. Performance testing of louvres subject to simulated rain.

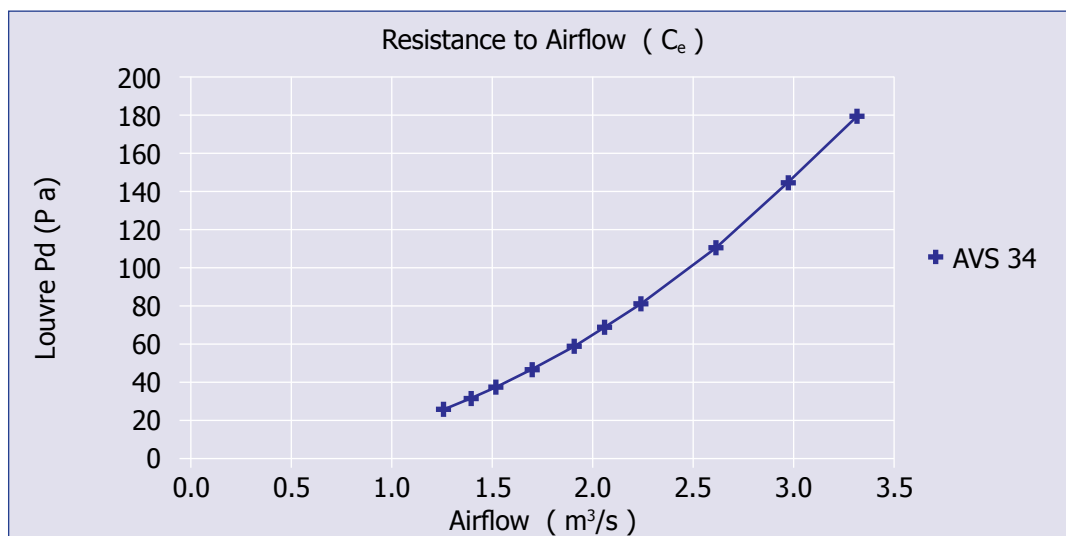
It should be noted that testing is undertaken on louvres of a specific size range only, generally 1m x 1m and so the performance data in relation to weathering is only applicable to a louvre of that size and under the conditions described in the test. Accordingly performance data should only ever be used as a guide to actual performance or to provide comparative performance between different louvre types.

AVS34

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	
25.0	1.31		1.256	6.204	0.202
30.7	1.45		1.395	6.875	0.203
36.8	1.58		1.521	7.527	0.202
45.8	1.77		1.702	8.397	0.203
58.2	1.99		1.910	9.466	0.202
68.3	2.15		2.063	10.254	0.201
80.6	2.34		2.244	11.139	0.201
110.1	2.73		2.620	13.019	0.201
144.3	3.10		2.981	14.905	0.200
179.2	3.46		3.322	16.609	0.200
mean C _e					0.202
Class					3



AVS34

Performance Data 3

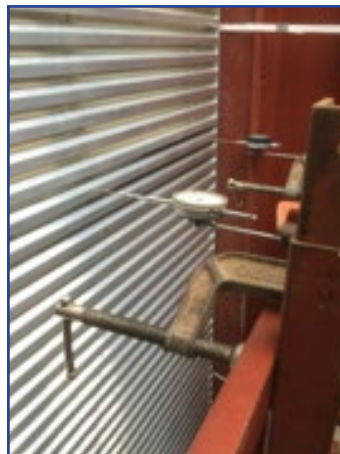
Testing of AVS34 SM Louvres to BS 6180:2011

Advanced Ventilation Systems AVS34 SM (Surface Mounted) Louvres have been subjected to a horizontal line load of 0.74kN/m, Uniform Distributed Load of 1.0kN/m and Point Load of 0.5 kN/m and comply with the permissible deflection requirements of the standard. Results are as the table below:

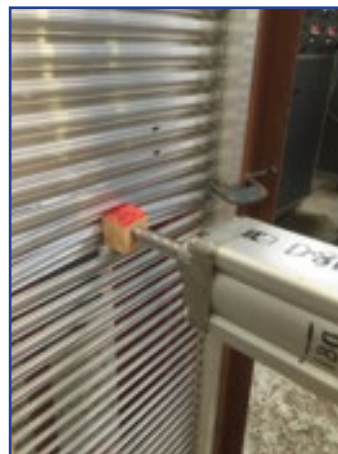
Louvre Type	0.74 kN/m Horizontal Line Load	1.0 kN/m ² Uniformly Distributed Load	0.5 kN Point Load	BS 6180 Requirement ≤ 25.0mm
	Maximum Deflection, mm			
AVS34SM	4.43	3.28	11.65	Complies
AVS50M	2.46	2.06	4.22	Complies



Horizontal Line Load
(Internal view of test)



Horizontal Line Load
(External view of test)



Point Load
(Internal View of Test)

Please note that if Louvres are required to meet the test standards above we must be notified at point of order and not retrospectively.

Testing was undertaken by:

BUILDING INVESTIGATION AND TESTING SERVICES (SURREY) LTD Quarryside Business Park, off Holmethorpe Industrial Estate, Thornton Side, Redhill, Surrey, UK, RH1 2LJ

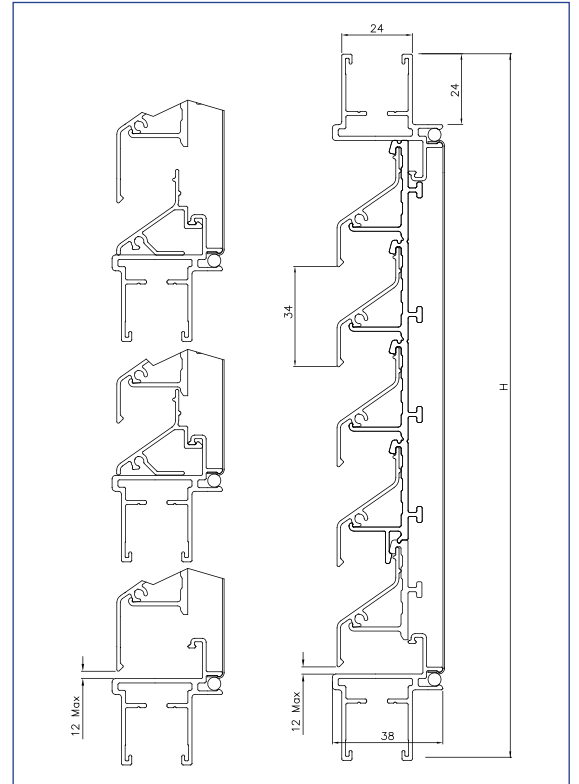
Test Report Ref: GT8090/1/CDL/16

A full copy of the test report is available upon request

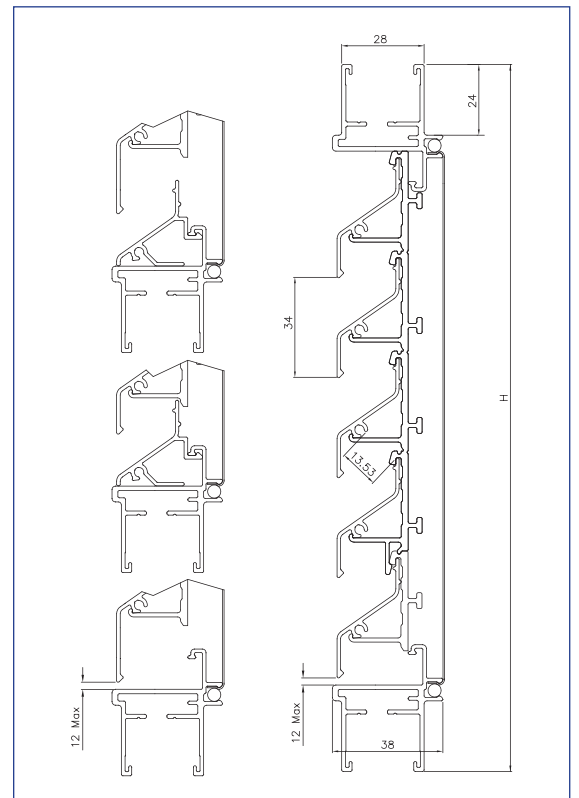
AVS34

Product Variants

AVS34 GL24



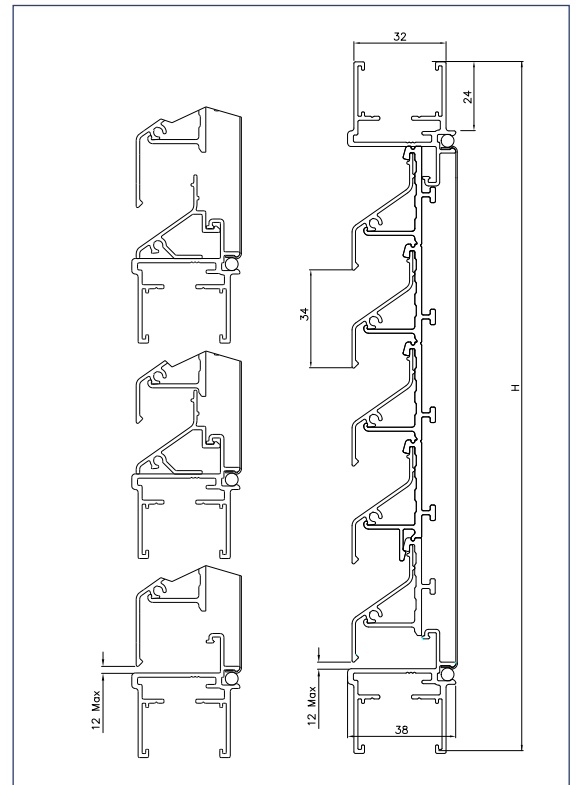
AVS34 GL28



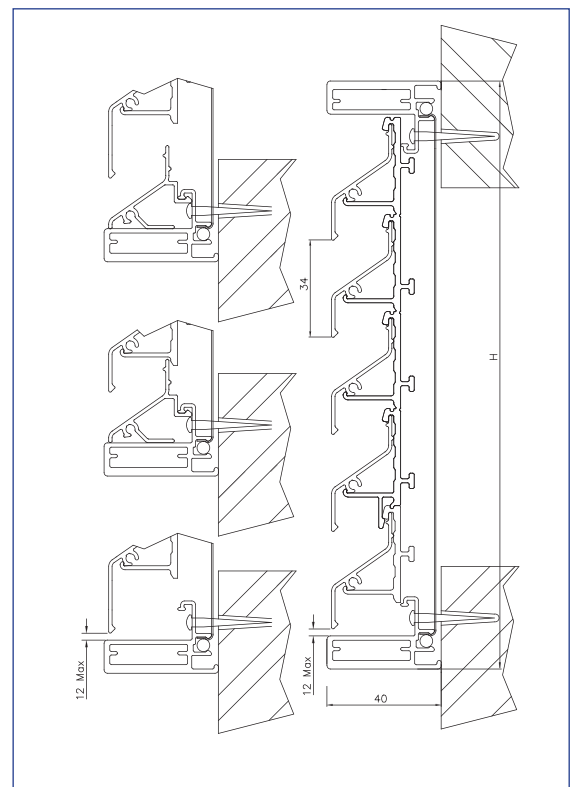
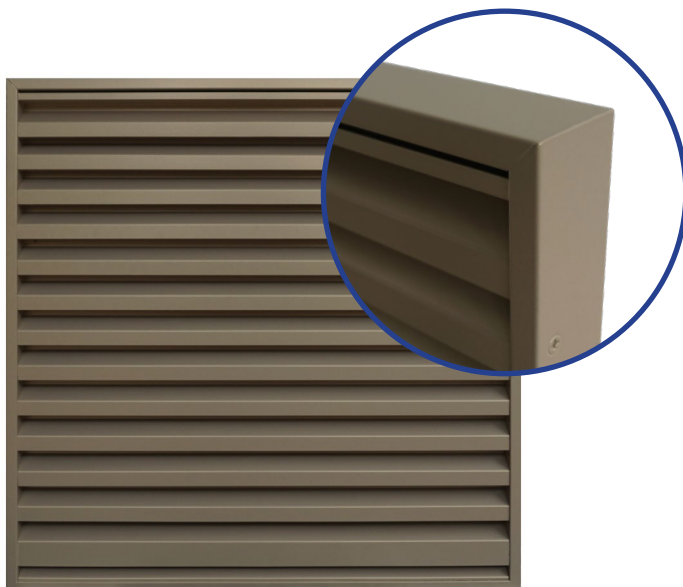
AVS34

Product Variants

AVS34 GL32



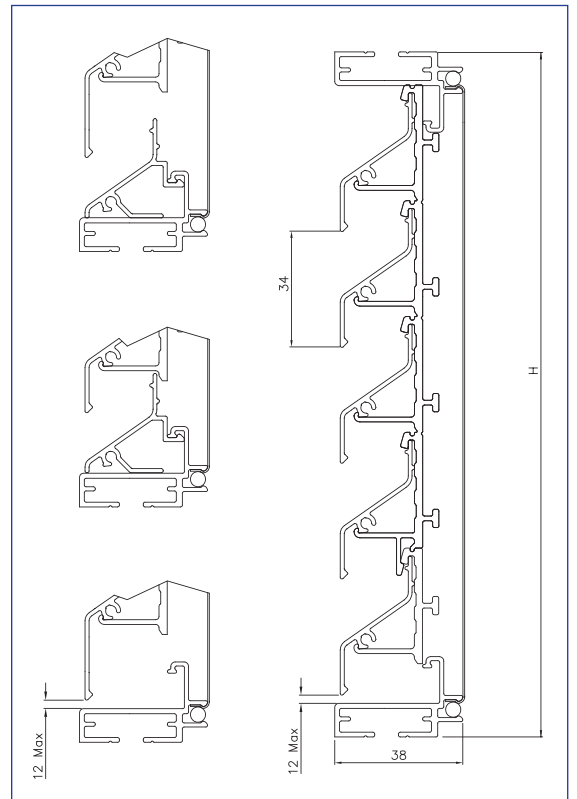
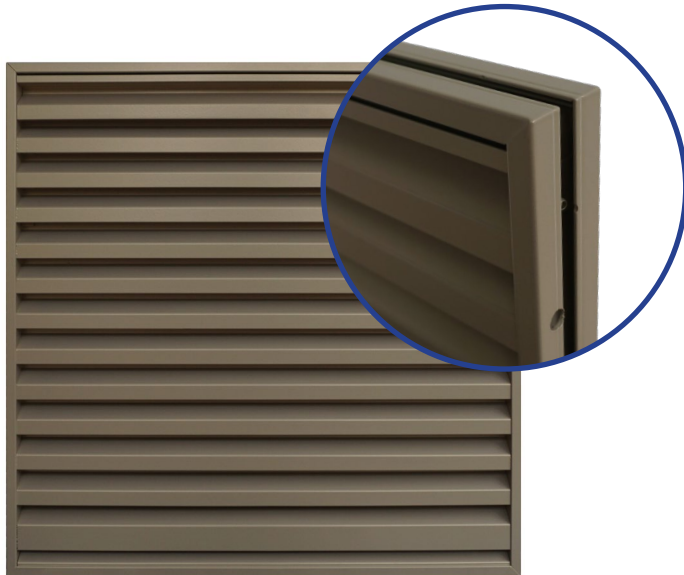
AVS34 SM



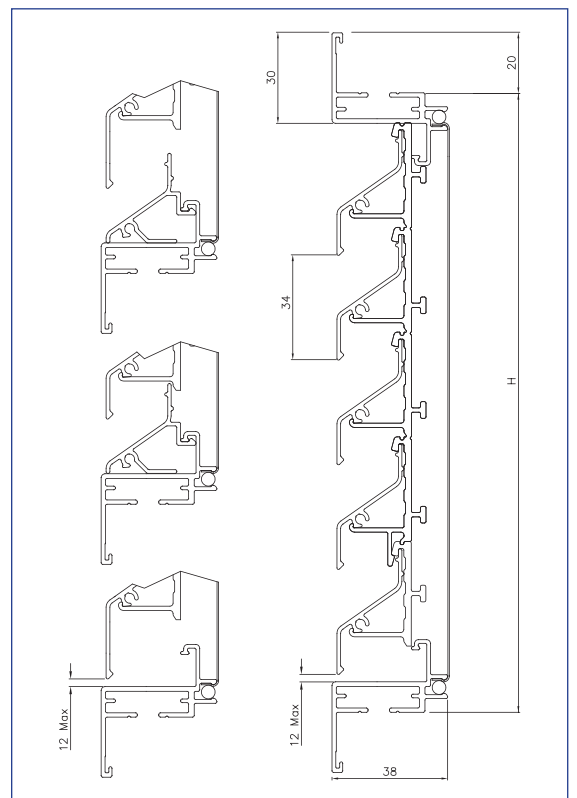
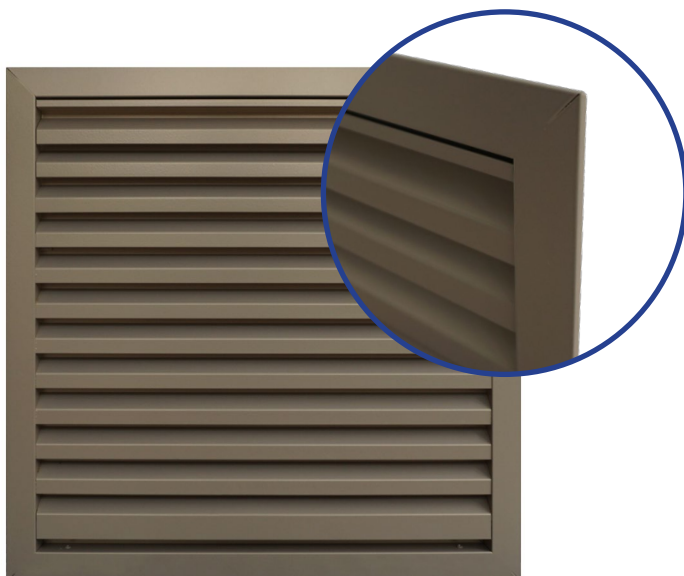
AVS34

Product Variants

AVS34 BF



AVS34 FL



Tel: 01903 726 348 • Fax: 01903 680 022

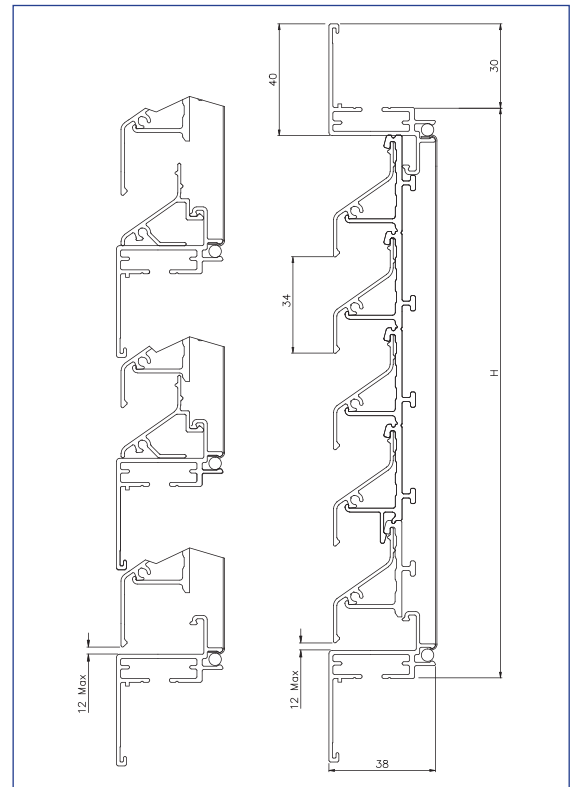
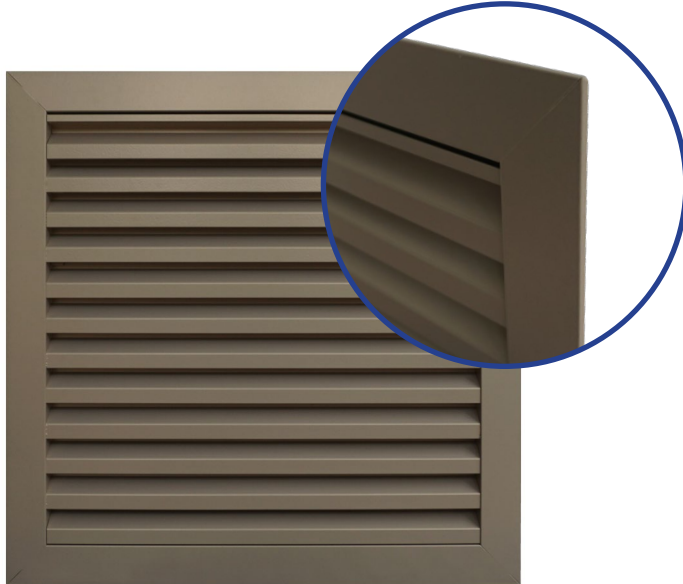
www.advancedventilationsystems.co.uk • info@advancedventilationsystems.co.uk

Advanced Ventilation Systems Ltd, Unit U9, Rudford Industrial Estate, Ford Road, Nr Arundel, West Sussex, BN18 0BD

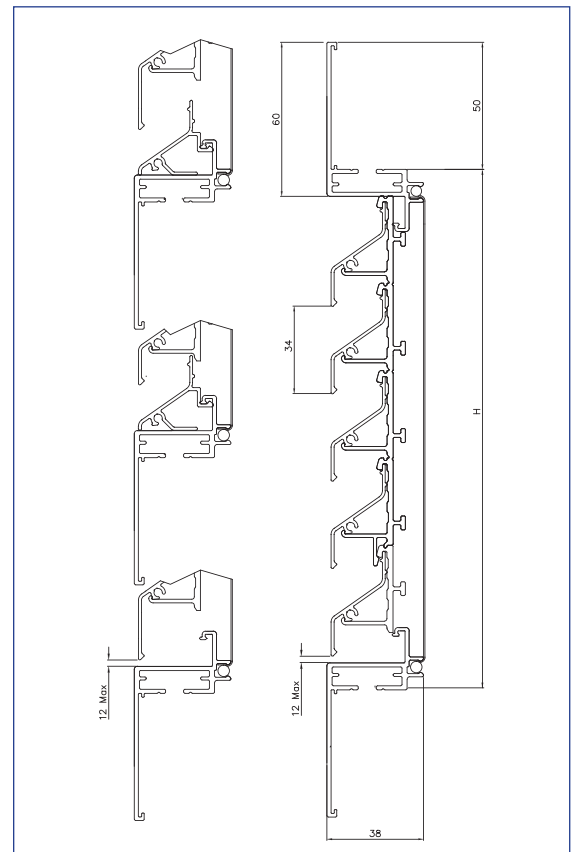
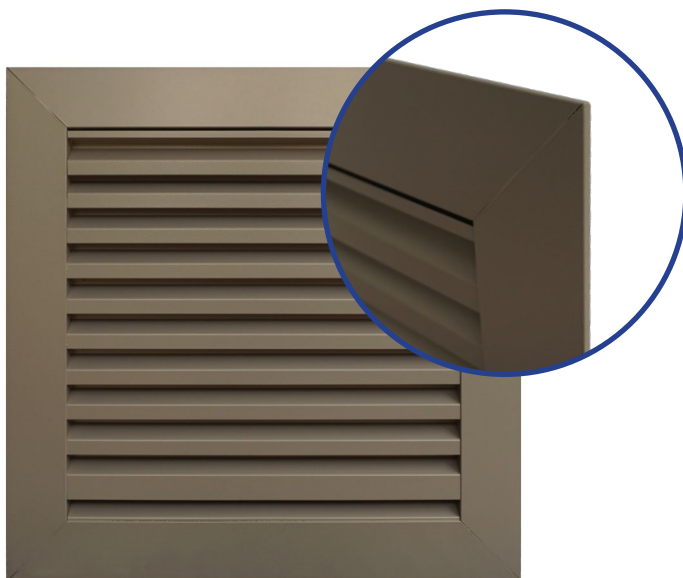
AVS34

Product Variants

AVS34 EXFL



AVS34 EXXFL



Tel: 01903 726 348 • Fax: 01903 680 022

www.advancedventilationsystems.co.uk • info@advancedventilationsystems.co.uk

Advanced Ventilation Systems Ltd, Unit U9, Rudford Industrial Estate, Ford Road, Nr Arundel, West Sussex, BN18 0BD