AVS34
Product Data Sheet

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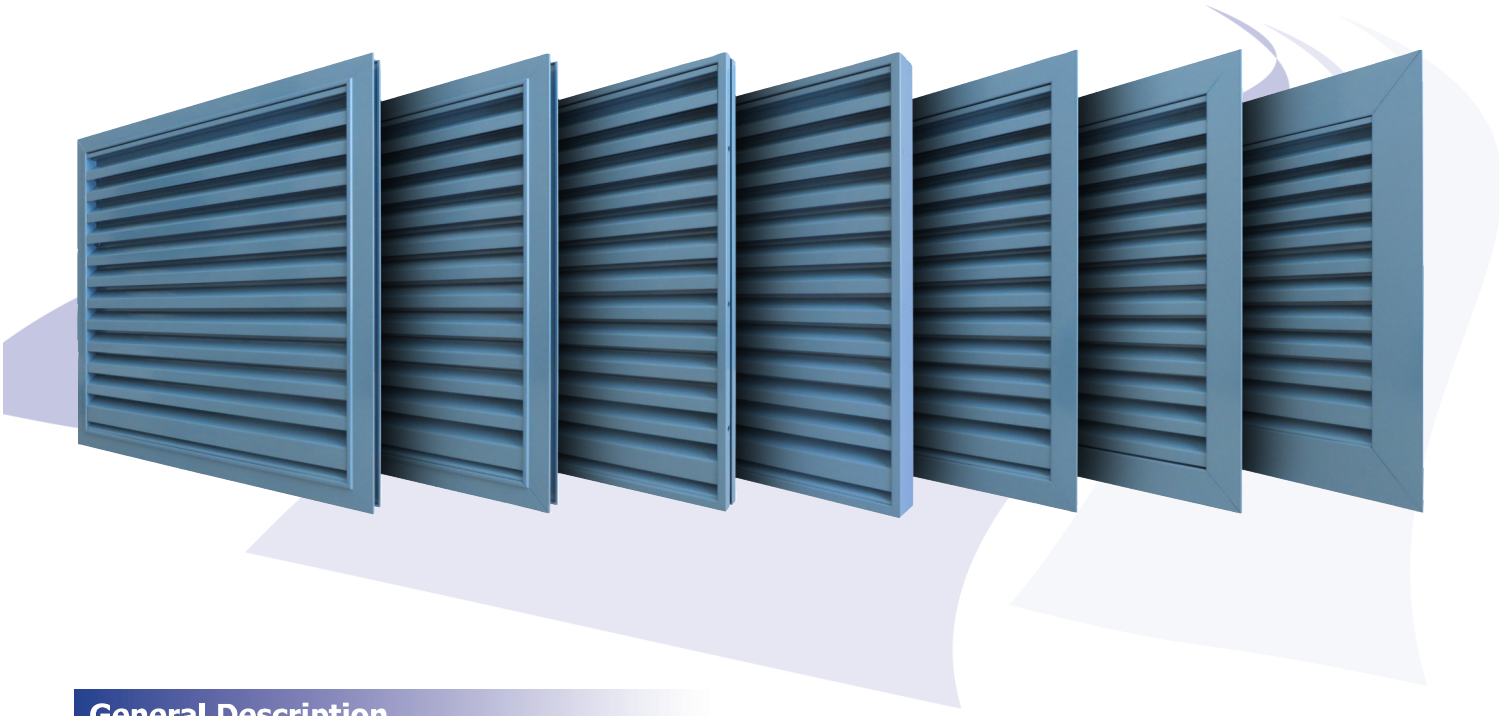

General Description

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)
- Mean Ce Factor 0.202 (Class 3)

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

Options
- 24 or 28mm 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

BSRIA
Certificate No. 53026
www.bsria.co.uk/certificates

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AVS34
Performance Data 1

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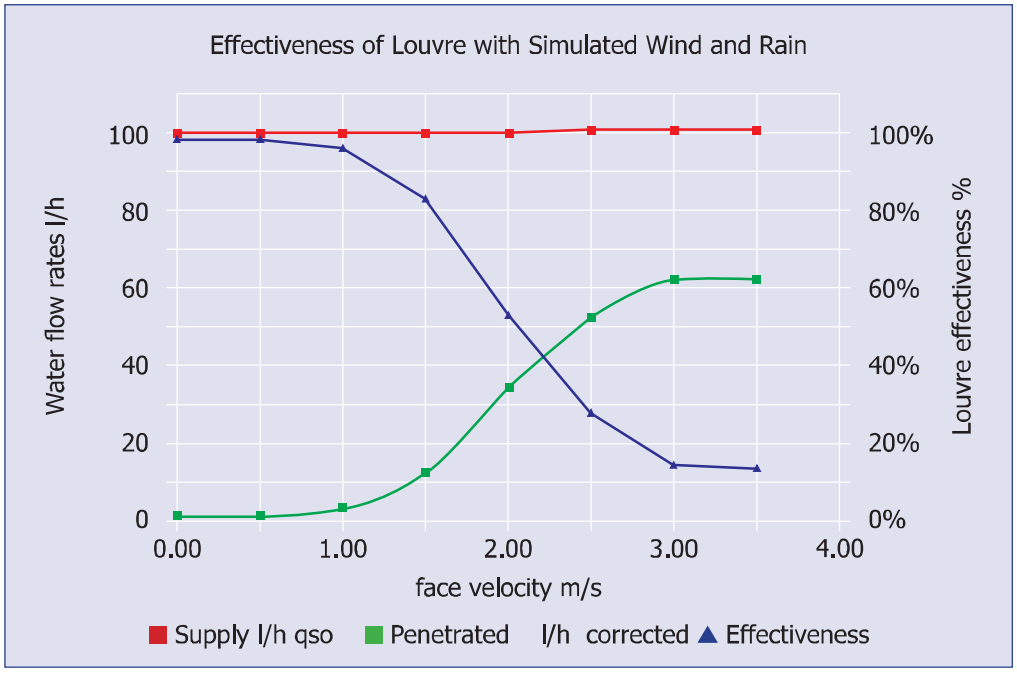
Classification from design tests undertaken by BSRIA based on a 980 x 980 core louvre area (0.960m2).

Weathering Performance with Flyscreen:

VENTILATION RATE		WATER FLOW RATES			
Volume m^3/s	Velocity m/s	Supply l/h	Penetrated l/h	Effectiveness 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%	-



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.

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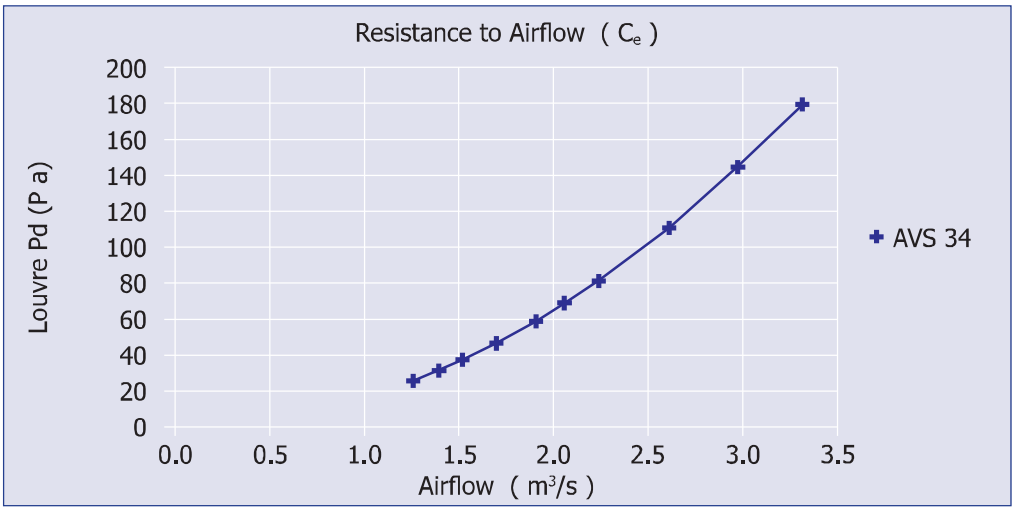
AVS34
Performance Data 2

Airflow Performance with Flyscreen:

Louvre pd Pascals	LOUVRE FACE VELOCITY m/s	AIR FLOW RATE Test m^3/s	Theoretical m^3/s	Coefficient C_e
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



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AVS34
Performance Data 3

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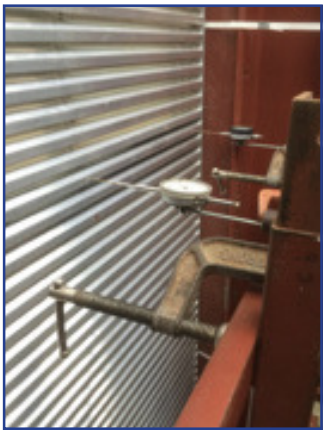
Testing of AVS34 SM Louvres to BS 6180:2011

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/m² 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

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AVS34
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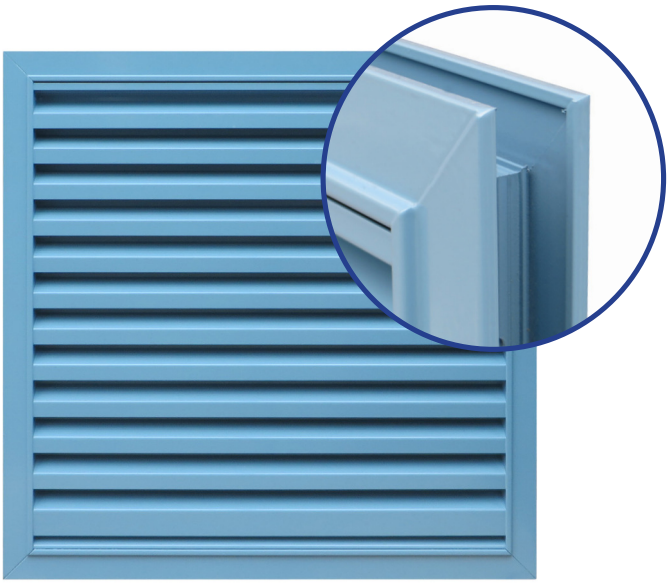
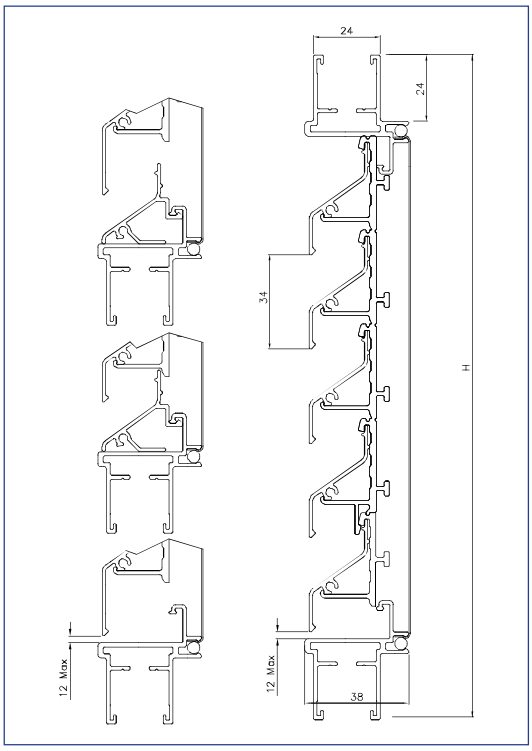
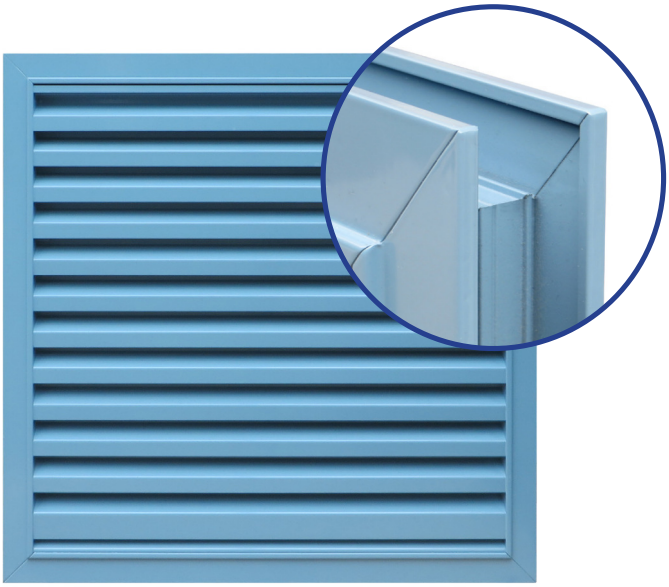
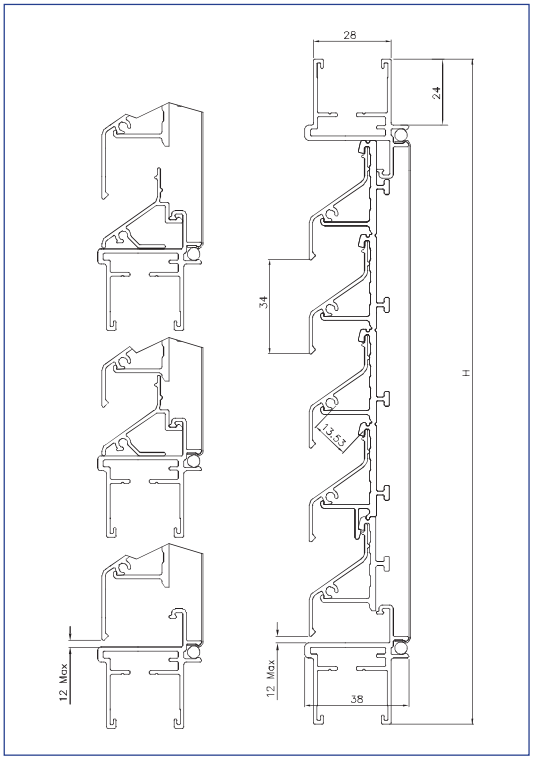
AVS34 GL24





AVS34 GL28





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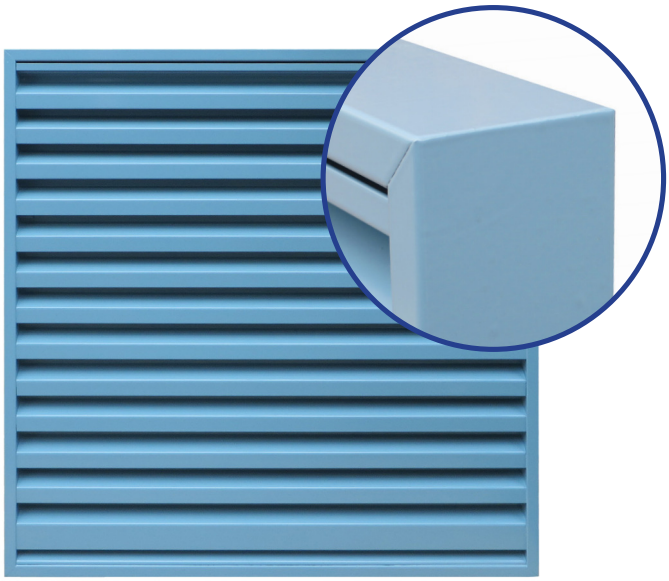
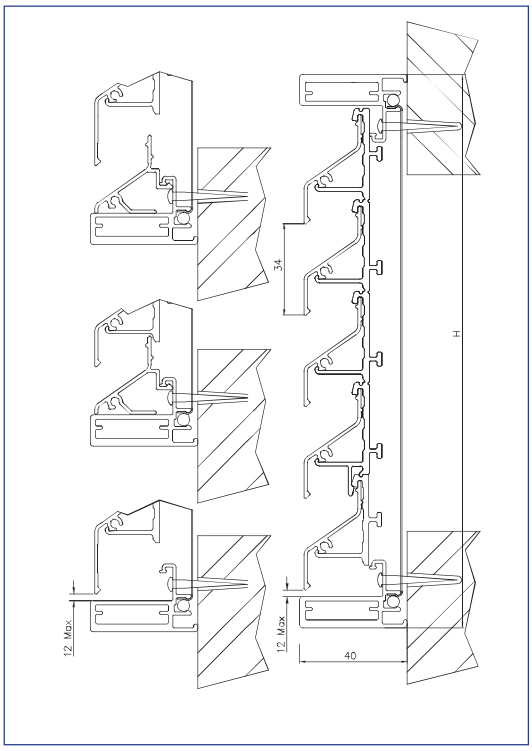
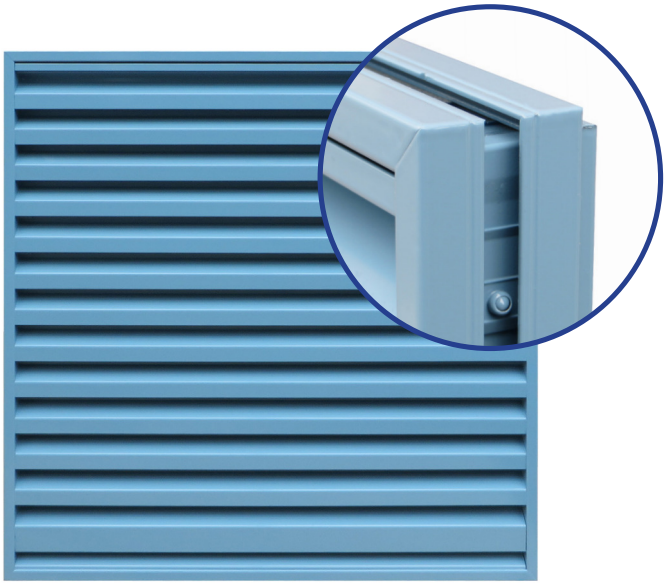
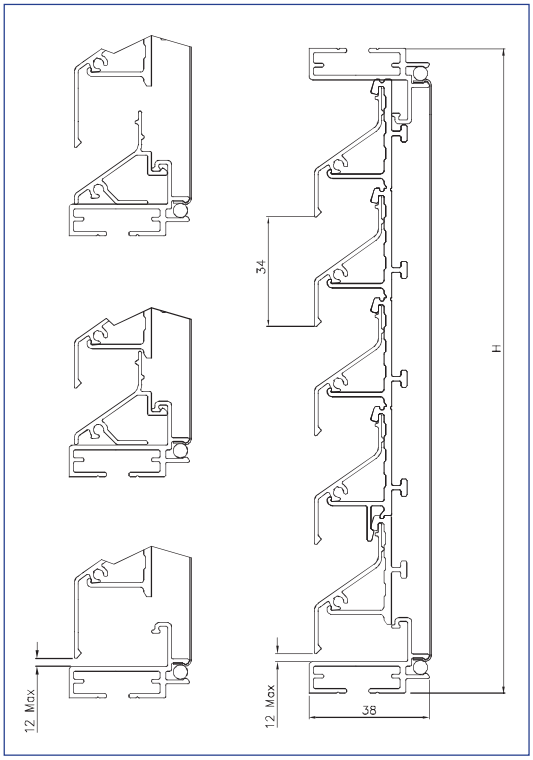
AVS34 SM





AVS34 BF





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AVS34 FL
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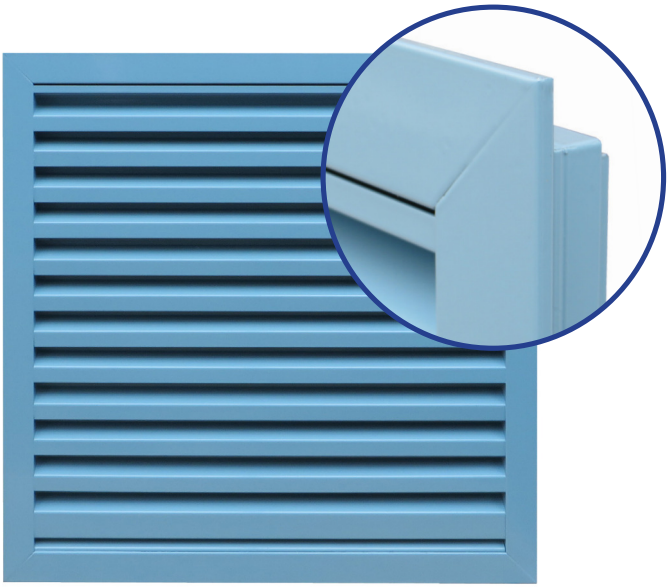
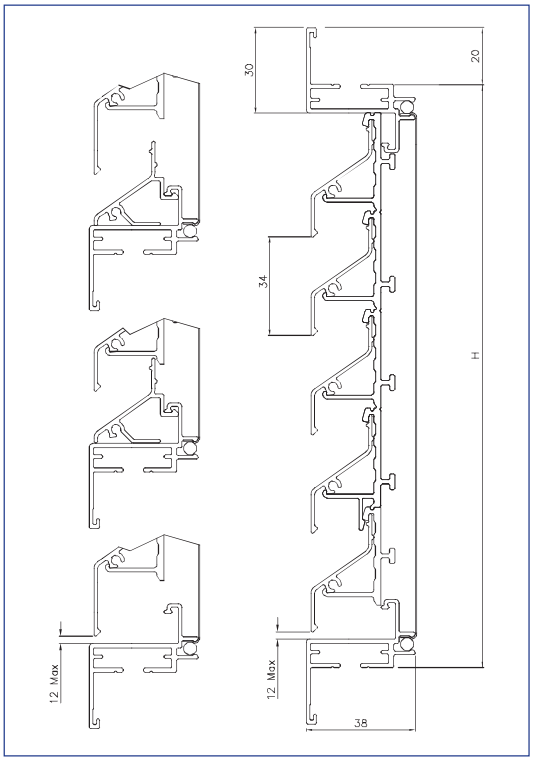
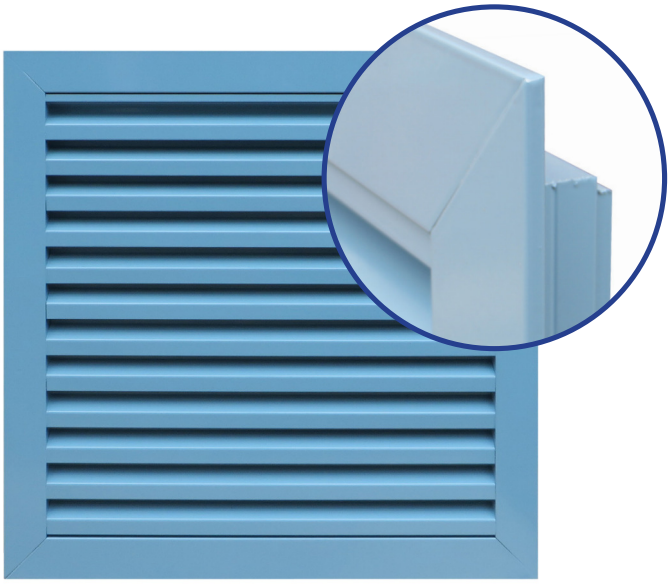
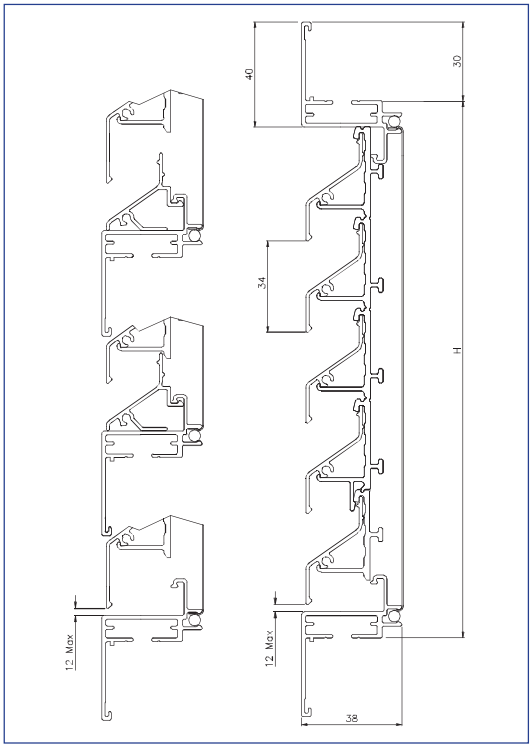




AVS34 EXFL





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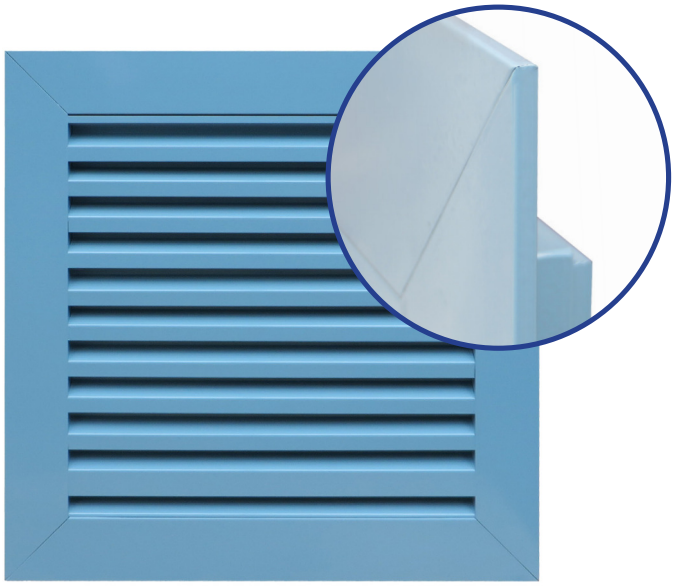
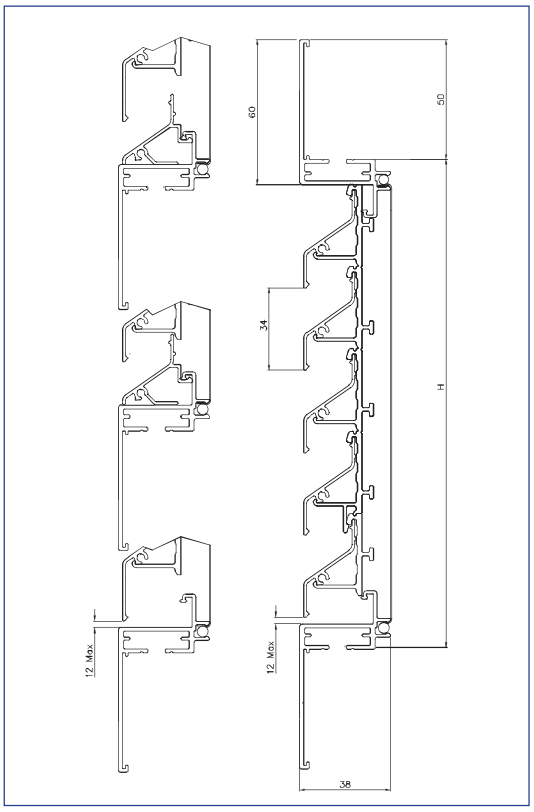
AVS34 EXXFL





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