AXS 140 is a combined AOV smoke ventilator and roof access hatch designed providing either 1.0m² or 1.5m² measured free area in accordance with Approved Document B, Appendix C. It is suitable for use as a staircase ventilator or roof mounted lobby/corridor ventilator and to provide external roof access. It has been tested to and is in compliance with BS EN 12101-2 and is CE marked.

Its features and benefits are described overleaf.
FEATURES AND BENEFITS

A wide range of applications - AXS 140 is installed onto roofs providing high level smoke control extract as well as roof access. Its polycarbonate flap option allows the entry of natural daylight.

Weather resistant - The sealing system consists of EPDM profiles which keep air leakage down to a minimum.

Durable - AXS 140 is manufactured from tough, corrosion resistant aluminium with critical parts manufactured from stainless steel.

Large opening angle - AXS 140 opens to 140° which permits it to meet the requirements of EN 12101-2.

Certified performance - AXS 140 has been exhaustively tested and certified to EN 12101-2: 2003 in accredited third party test laboratories and is CE marked.

High thermal performance - Thermal performance varies with size and options, ranging from 1.3 to 2.4 W/m²K. These figures are based on the whole unit and are not just centre panel figures.

High acoustic performance - A sound reduction of up to 29 dB (R’w) may be achieved.

Dimensions
Either 1250 x 1000 or 1250 x 1500 (throat dimensions).

Flap options
• Thermally broken aluminium frame and insulated aluminium panel.
• Thermally broken aluminium frame and polycarbonate panel.

Fits tightly to frame with continuous seals for excellent airtightness. Opens to 140° from the horizontal.

Colour/finishes options
• Mill finish
• Polyester powder painted to a RAL colour, standard 40 mu.

Fixing options
Fixing flange for curb. Installation angle must be at 0° (horizontal).

Controls options
24 V DC linear actuator (drive in / drive out).

Performance
The following performance attributes follow tests to EN 12101-2:2003 (standard for smoke and heat exhaust ventilators). The exact performance attribute will depend on the chosen size, controls, and flap type.

• Reliability class: RE 50
• Wind load: 1500 N/m²
• Snow load: 250 N/m²
• Resistance to heat: B 300
• Low temperature class: T(-5)
• Materials resistance to fire: E (to BS EN13501-1)
• U value: up to a maximum of 1.3 W/m²K (aluminium lid version), 2.4 W/m²K (polycarbonate lid version)
• Air permeability: Class 4 to BS EN 12207:2000
• Watertightness: Rain defence tested to 75m/hr @ 13 m/sec
• Sound insulation: Up to 29 dB R’w.

<table>
<thead>
<tr>
<th>s version</th>
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<tbody>
<tr>
<td>Measured free area (m²)</td>
<td>1.0</td>
</tr>
<tr>
<td>Throat width (mm)</td>
<td>1000</td>
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<tr>
<td>Throat length (mm)</td>
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<tr>
<td>Overall width (mm)</td>
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<tr>
<td>Overall length (mm)</td>
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<td>Clearance for flap from base edge (mm)</td>
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<td>Weight (kg)</td>
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<tr>
<td>Motor</td>
<td>24V dc</td>
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<tr>
<td></td>
<td>62.4W</td>
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<td>1550N</td>
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