

Louvred Roof Vent



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A roof opening above a staircase, or at the head of a natural powered smoke shaft, or in a top floor corridor would typically require an automated vent to allow for the exhaust of smoke and hot gases.

Features:

- CE Marked and tested to EN12101-2
- The base and body material is aluminium
- The louvre blade material can be aluminium or polycarbonate.
- The louvre blades can be single skin or double skin with insulation.
- Insulated louvre blades offer better U-values compared to single skin.
- Standard colour is mill finished aluminium however can be powder coated to any standard RAL colour.
- Turndown Base, Flat Base and Glazing Base options are available
- Fitted with optional wind baffle

Product Specification:

- Aerodynamically tested to BS EN 12101-2:2003
- Life cycle tested to class RE1000 under BS EN 12101-2: 2002
- Will withstand wind loads of class WL1500 and snow loads of up to class SL500 under BS EN 12101-2:2003

Sizes:

- See overleaf for size and free area chart.

Product Application Guidance:

The SE Controls Contracting Team can advise on specific product requirements and any guidance required on installation or legislation related to this products. They can be contacted at: <https://www.secontrols.com/en-gb/contact/>.

Standard AOV Louvre Sizes

Free Area Tables & Technical Drawings

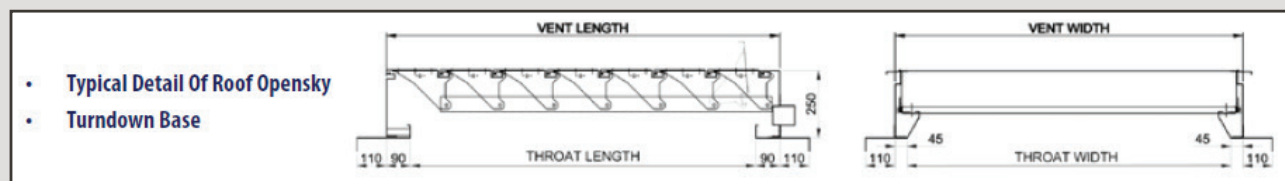
05 12 — Width Code
— Length Code

| Vent Width 500mm to 1200mm | | | Width Code | | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|----------------------------|-------------|---------------|--------------|------|------|------|------|------|------|------|------|------|
| | | | Vent Width | | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| | | | Throat Width | | 410 | 510 | 610 | 710 | 810 | 910 | 1010 | 1110 |
| Length Code | Vent Length | Throat Length | Av | AvCv | Av | AvCv | Av | AvCv | Av | AvCv | Av | AvCv |
| 04 | 870 | 690 | 0.28 | 0.23 | 0.35 | 0.28 | 0.42 | 0.33 | 0.49 | 0.38 | 0.56 | 0.42 |
| 05 | 1070 | 890 | 0.36 | 0.29 | 0.45 | 0.35 | 0.54 | 0.41 | 0.63 | 0.47 | 0.72 | 0.53 |
| 06 | 1270 | 1090 | 0.45 | 0.35 | 0.56 | 0.42 | 0.66 | 0.49 | 0.77 | 0.56 | 0.88 | 0.63 |
| 07 | 1470 | 1290 | 0.53 | 0.40 | 0.66 | 0.49 | 0.79 | 0.58 | 0.92 | 0.66 | 1.04 | 0.74 |
| 08 | 1670 | 1490 | 0.61 | 0.48 | 0.76 | 0.57 | 0.91 | 0.67 | 1.06 | 0.78 | 1.21 | 0.86 |
| 09 | 1870 | 1690 | 0.69 | 0.53 | 0.86 | 0.64 | 1.03 | 0.76 | 1.20 | 0.87 | 1.37 | 0.98 |
| 10 | 2070 | 1890 | 0.77 | 0.60 | 0.96 | 0.72 | 1.15 | 0.84 | 1.34 | 0.96 | 1.53 | 1.08 |
| 11 | 2270 | 2090 | 0.86 | 0.67 | 1.07 | 0.80 | 1.27 | 0.94 | 1.48 | 1.07 | 1.69 | 1.21 |
| 12 | 2470 | 2290 | 0.94 | 0.73 | 1.17 | 0.87 | 1.40 | 1.04 | 1.63 | 1.19 | 1.85 | 1.33 |
| 13 | 2670 | 2490 | 1.02 | 0.80 | 1.27 | 0.96 | 1.52 | 1.14 | 1.77 | 1.30 | 2.02 | 1.47 |
| 14 | 2870 | 2690 | 1.10 | 0.88 | 1.37 | 1.05 | 1.64 | 1.23 | 1.91 | 1.40 | 2.18 | 1.58 |
| 15 | 3070 | 2890 | 1.18 | 0.94 | 1.47 | 1.12 | 1.76 | 1.31 | 2.05 | 1.50 | 2.34 | 1.71 |
| 16 | 3270 | 3090 | 1.27 | 1.00 | 1.58 | 1.20 | 1.88 | 1.40 | 2.19 | 1.62 | 2.50 | 1.82 |
| 17 | 3470 | 3290 | 1.35 | 1.06 | 1.68 | 1.27 | 2.01 | 1.51 | 2.34 | 1.72 | 2.66 | 1.94 |

| Vent Width 1300mm to 2000mm | | | Width Code | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-----------------------------|-------------|---------------|--------------|------|------|------|------|------|------|------|------|------|
| | | | Vent Width | | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 |
| | | | Throat Width | | 1210 | 1310 | 1410 | 1510 | 1610 | 1710 | 1810 | 1910 |
| Length Code | Vent Length | Throat Length | Av | AvCv | Av | AvCv | Av | AvCv | Av | AvCv | Av | AvCv |
| 04 | 870 | 690 | 0.83 | 0.62 | 0.90 | 0.67 | 0.97 | 0.73 | 1.04 | 0.78 | 1.11 | 0.84 |
| 05 | 1070 | 890 | 1.08 | 0.78 | 1.17 | 0.84 | 1.25 | 0.91 | 1.34 | 0.98 | 1.43 | 1.04 |
| 06 | 1270 | 1090 | 1.32 | 0.92 | 1.43 | 1.00 | 1.54 | 1.09 | 1.65 | 1.16 | 1.75 | 1.23 |
| 07 | 1470 | 1290 | 1.58 | 1.09 | 1.69 | 1.17 | 1.82 | 1.28 | 1.95 | 1.38 | 2.08 | 1.45 |
| 08 | 1670 | 1490 | 1.80 | 1.28 | 1.95 | 1.38 | 2.10 | 1.45 | 2.25 | 1.55 | 2.40 | 1.88 |
| 09 | 1870 | 1690 | 2.04 | 1.41 | 2.21 | 1.54 | 2.38 | 1.65 | 2.55 | 1.77 | 2.72 | 1.91 |
| 10 | 2070 | 1890 | 2.29 | 1.59 | 2.48 | 1.71 | 2.66 | 1.86 | 2.85 | 1.99 | 3.04 | 2.11 |
| 11 | 2270 | 2090 | 2.53 | 1.77 | 2.74 | 1.91 | 2.95 | 2.04 | 3.16 | 2.22 | 3.36 | 2.35 |
| 12 | 2470 | 2290 | 2.77 | 1.98 | 3.00 | 2.11 | 3.23 | 2.28 | 3.48 | 2.45 | 3.69 | 2.60 |
| 13 | 2670 | 2490 | 3.01 | 2.15 | 3.28 | 2.32 | 3.51 | 2.48 | 3.78 | 2.65 | 4.01 | 2.81 |
| 14 | 2870 | 2690 | 3.25 | 2.31 | 3.52 | 2.49 | 3.79 | 2.67 | 4.06 | 2.85 | 4.33 | 3.02 |
| 15 | 3070 | 2890 | 3.50 | 2.47 | 3.79 | 2.66 | 4.07 | 2.86 | 4.36 | 3.05 | 4.65 | 3.24 |
| 16 | 3270 | 3090 | 3.74 | 2.64 | 4.05 | 2.84 | 4.36 | 3.04 | 4.67 | 3.24 | 4.97 | 3.45 |
| 17 | 3470 | 3290 | 3.98 | 2.80 | 4.31 | 3.01 | 4.64 | 3.23 | 4.97 | 3.44 | 5.30 | 3.66 |

Av = Geometric Free Area (m²) - Performance may vary depending on the build of the blade as per Approved Doc B

AvCv = Aerodynamic Free Area (m²) - Results obtained during EN12101 Part 2 testing using wind shields



Unit Weights (kg) Typical configuration - Uninsulated blade/uninsulated body (base not included)

| Width Code | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Length Code | | | | | | | | | | | | | | | | |
| 04 | 17.50 | 18.50 | 19.50 | 20.50 | 21.50 | 22.50 | 23.50 | 24.50 | 25.75 | 27.00 | 28.00 | 29.25 | 30.25 | 31.25 | 32.50 | 34.00 |
| 05 | 20.00 | 21.00 | 22.00 | 23.00 | 24.00 | 25.00 | 26.00 | 27.00 | 28.50 | 30.00 | 31.00 | 32.75 | 33.50 | 35.00 | 36.50 | 38.00 |
| 06 | 22.50 | 23.50 | 24.50 | 25.50 | 26.50 | 27.50 | 29.25 | 30.00 | 31.50 | 33.00 | 34.50 | 36.50 | 38.00 | 40.00 | 41.75 | 43.00 |
| 07 | 25.00 | 26.00 | 27.00 | 28.00 | 29.00 | 30.00 | 31.50 | 33.00 | 35.00 | 36.50 | 38.00 | 39.25 | 40.50 | 42.25 | 44.25 | 45.50 |
| 08 | 27.50 | 28.50 | 29.50 | 30.50 | 31.50 | 32.50 | 34.25 | 36.00 | 38.00 | 39.50 | 41.00 | 42.75 | 44.50 | 46.50 | 48.00 | 49.50 |
| 09 | 30.00 | 31.00 | 32.00 | 33.00 | 34.00 | 35.00 | 37.00 | 39.00 | 41.25 | 43.00 | 44.50 | 46.25 | 48.00 | 50.00 | 51.75 | 53.50 |
| 10 | 32.50 | 33.50 | 34.50 | 36.00 | 37.00 | 38.00 | 40.00 | 42.00 | 44.00 | 46.00 | 48.00 | 49.75 | 51.50 | 53.75 | 55.50 | 57.50 |
| 11 | 35.00 | 36.00 | 37.25 | 38.50 | 39.25 | 40.50 | 42.75 | 45.00 | 47.50 | 49.25 | 51.00 | 53.00 | 55.00 | 56.75 | 58.25 | 59.50 |
| 12 | 38.00 | 39.00 | 40.00 | 41.00 | 42.00 | 43.00 | 45.25 | 47.50 | 50.00 | 52.50 | 54.50 | 56.75 | 59.00 | 62.00 | 63.75 | 65.50 |
| 13 | 40.50 | 41.50 | 42.25 | 43.25 | 44.50 | 46.00 | 48.25 | 50.50 | 53.50 | 56.00 | 57.50 | 60.00 | 62.50 | 64.50 | 66.00 | 67.50 |
| 14 | 43.00 | 44.25 | 45.50 | 46.25 | 47.25 | 48.50 | 51.00 | 53.50 | 57.00 | 59.50 | 61.00 | 63.50 | 66.00 | 69.00 | 71.25 | 73.50 |
| 15 | 46.00 | 47.00 | 48.00 | 49.00 | 50.00 | 51.00 | 53.75 | 56.50 | 59.50 | 62.00 | 64.50 | 67.00 | 69.50 | 72.50 | 74.50 | 76.50 |
| 16 | 48.50 | 50.00 | 51.00 | 52.00 | 53.00 | 54.00 | 56.75 | 59.50 | 63.00 | 66.00 | 68.00 | 70.50 | 73.00 | 76.00 | 77.75 | 79.50 |
| 17 | 51.00 | 52.25 | 54.00 | 55.50 | 56.75 | 58.50 | 60.25 | 62.00 | 64.25 | 67.00 | 71.00 | 74.00 | 77.00 | 79.50 | 81.00 | 82.50 |