

# Vision Series® Smoke, Heat & Exhaust Roof Vent

Louvreclad Vision Series® provides reliable natural ventilation and smoke and heat exhaust. It's designed for demanding environments, including cyclone regions, to ensure high performance, reliability, and safety.

## Features

PERFORMANCE

**Reliable Smoke & Heat Exhaust**

Provides 87% free open area with a coefficient of discharge of 0.83. Ensures effective natural ventilation and failsafe smoke and heat exhaust for demanding environments.

AESTHETICS

**Low-Profile Design**

Constructed from sheet metal, available in colour-coated steel or aluminium with optional powder-coated and Colorbond® finishes. Designed to blend seamlessly with the building's architecture.

DESIGN

**Versatile and Robust**

Suitable for cyclone regions, featuring spring return actuators and thermal links for fail-safe operation. Available in heights from 570mm to 5938mm, customizable to fit various building requirements.

## Specifications

AUSTRALIAN STANDARDS

**AS 2428:1983**

OPERATION

**Fail-safe spring return actuator/ electric actuator / pneumatic motor**

MATERIAL

**Zincalume®, Colorbond®, Galvabond®, Aluminium**

FINISH

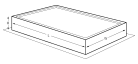
**Powder Coat, Anodise, Zincalume®, Colorbond®, Galvabond®**

INSTALLATION

**Installation and mounting details will be designed in accordance with proprietary systems and recommendations as designed and manufactured by Louvreclad.**

# Explore the profile options

## Vision Series®



Operable roof louvre for smoke and heat exhaust

| | | |
|---|---|---|
| 0.831 CD<br>DISCHARGE COEFFICIENT | 0.72 m2<br>EFFECTIVE AERODYNAMIC AREA | 87 %<br>FREE OPEN AREA |
| 220 mm<br>DEPTH | 122 mm<br>PITCH | Project-specific mm<br>MAX SPAN |

## Technical Specifications

| Series | Ventilator Width | Ventilator Length | Ventilator Height | Number of Blades | Weight Ventilator | Throat Area | EAA-Effective Aerodynamic Area |
|---|---|---|---|---|---|---|---|
| | W mm | L mm | H mm | | kg | m2 | m2 |
| Vision 1012 | 1000 | 1180 | 220 | 9 | 30 | 0.931 | 0.773 |
| Vision 1018 | 1000 | 1790 | 220 | 14 | 40 | 1.477 | 1.227 |
| Vision 1024 | 1000 | 2400 | 220 | 19 | 51 | 2.023 | 1.681 |
| Vision 1030 | 1000 | 3010 | 220 | 24 | 61 | 2.569 | 2.135 |
| Vision 1112 | 1100 | 1180 | 220 | 9 | 32 | 1.035 | 0.860 |
| Vision 1118 | 1100 | 1790 | 220 | 14 | 42 | 1.642 | 1.364 |
| Vision 1124 | 1100 | 2400 | 220 | 19 | 53 | 2.249 | 1.869 |
| Vision 1130 | 1100 | 3010 | 220 | 24 | 64 | 2.856 | 2.373 |
| Vision 1212 | 1200 | 1180 | 220 | 9 | 33 | 1.139 | 0.946 |
| Vision 1218 | 1200 | 1790 | 220 | 14 | 45 | 1.807 | 1.501 |
| Vision 1224 | 1200 | 2400 | 220 | 19 | 56 | 2.475 | 2.056 |
| Vision 1230 | 1200 | 3010 | 220 | 24 | 67 | 3.143 | 2.612 |
| Vision 1312 | 1300 | 1180 | 220 | 9 | 35 | 1.243 | 1.033 |
| Vision 1318 | 1300 | 1790 | 220 | 14 | 47 | 1.972 | 1.639 |
| Vision 1324 | 1300 | 2400 | 220 | 19 | 58 | 2.701 | 2.244 |
| Vision 1330 | 1300 | 3010 | 220 | 24 | 70 | 3.430 | 2.850 |
| Vision 1412 | 1400 | 1180 | 220 | 9 | 37 | 1.347 | 1.119 |
| Vision 1418 | 1400 | 1790 | 220 | 14 | 49 | 2.137 | 1.776 |
| Vision 1424 | 1400 | 2400 | 220 | 19 | 61 | 2.927 | 2.432 |
| Vision 1430 | 1400 | 3010 | 220 | 24 | 73 | 3.717 | 3.089 |
| Vision 1512 | 1500 | 1180 | 220 | 9 | 38 | 1.451 | 1.206 |
| Vision 1518 | 1500 | 1790 | 220 | 14 | 51 | 2.302 | 1.913 |
| Vision 1524 | 1500 | 2400 | 220 | 19 | 63 | 3.153 | 2.620 |
| Vision 1530 | 1500 | 3010 | 220 | 24 | 76 | 4.004 | 3.327 |

## Exhaust capacities (m3 per second)

| Temperature difference | Effective stack height | Exhaust capacitities in m3/s | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| °C | m | Vision 1012 | Vision 1018 | Vision 1024 | Vision 1030 | Vision 1112 | Vision 1118 | Vision 1124 | Vision 1130 | Vision 1212 | Vision 1218 | Vision 1224 | Vision 1230 |
| 5 | 6 | 0.754 | 1.196 | 1.638 | 2.080 | 0.838 | 1.330 | 1.821 | 2.312 | 0.922 | 1.463 | 2.004 | 2.548 |
| | 12 | 1.067 | 1.693 | 2.319 | 2.945 | 1.186 | 1.882 | 2.578 | 3.274 | 1.306 | 2.071 | 2.837 | 3.603 |
| | 18 | 1.307 | 2.074 | 2.840 | 3.607 | 1.453 | 2.305 | 3.158 | 4.010 | 1.599 | 2.537 | 3.475 | 4.413 |
| | 24 | 1.509 | 2.394 | 3.279 | 4.164 | 1.678 | 2.662 | 3.646 | 4.630 | 1.846 | 2.929 | 4.012 | 5.096 |
| 10 | 6 | 1.067 | 1.693 | 2.319 | 2.945 | 1.186 | 1.882 | 2.578 | 3.274 | 1.306 | 2.071 | 2.837 | 3.603 |
| | 12 | 1.509 | 2.394 | 3.279 | 4.164 | 1.678 | 2.662 | 3.646 | 4.630 | 1.846 | 2.929 | 4.012 | 5.096 |
| | 18 | 1.848 | 2.933 | 4.017 | 5.101 | 2.055 | 3.260 | 4.465 | 5.670 | 2.261 | 3.588 | 4.914 | 6.241 |
| | 24 | 2.135 | 3.387 | 4.639 | 5.891 | 2.373 | 3.765 | 5.157 | 6.549 | 2.612 | 4.143 | 5.675 | 7.207 |
| 15 | 6 | 1.307 | 2.074 | 2.840 | 3.607 | 1.453 | 2.305 | 3.158 | 4.010 | 1.599 | 2.537 | 3.475 | 4.413 |
| | 12 | 1.848 | 2.933 | 4.017 | 5.101 | 2.055 | 3.260 | 4.465 | 5.670 | 2.261 | 3.588 | 4.914 | 6.241 |
| | 18 | 2.264 | 3.592 | 4.920 | 6.248 | 2.517 | 3.993 | 5.469 | 6.946 | 2.770 | 4.394 | 6.019 | 7.644 |
| | 24 | 2.614 | 4.148 | 5.681 | 7.214 | 2.906 | 4.611 | 6.315 | 8.020 | 3.198 | 5.074 | 6.950 | 8.827 |
| 20 | 6 | 1.509 | 2.394 | 3.279 | 4.164 | 1.678 | 2.662 | 3.646 | 4.630 | 1.846 | 2.929 | 4.012 | 5.096 |
| | 12 | 2.135 | 3.387 | 4.639 | 5.891 | 2.373 | 3.765 | 5.157 | 6.549 | 2.612 | 4.143 | 5.675 | 7.207 |
| | 18 | 2.614 | 4.148 | 5.681 | 7.214 | 2.906 | 4.611 | 6.315 | 8.020 | 3.198 | 5.074 | 6.950 | 8.827 |
| | 24 | 3.019 | 4.789 | 6.559 | 8.330 | 3.356 | 5.324 | 7.292 | 9.260 | 3.693 | 5.859 | 8.025 | 10.192 |

| Temperature difference | Effective stack height | Exhaust capacitities in m3/s | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| °C | m | Vision 1312 | Vision 1318 | Vision 1324 | Vision 1330 | Vision 1412 | Vision 1418 | Vision 1424 | Vision 1430 | Vision 1512 | Vision 1518 | Vision 1524 | Vision 1530 |
| 5 | 6 | 1.006 | 1.597 | 2.187 | 2.777 | 1.091 | 1.730 | 2.370 | 3.010 | 1.172 | 1.864 | 2.556 | 3.246 |
| | 12 | 1.425 | 2.260 | 3.096 | 3.932 | 1.544 | 2.450 | 3.355 | 4.261 | 1.664 | 2.639 | 3.614 | 4.590 |
| | 18 | 1.745 | 2.769 | 3.792 | 4.816 | 1.891 | 3.000 | 4.110 | 5.219 | 2.038 | 3.232 | 4.427 | 5.623 |
| | 24 | 2.015 | 3.197 | 4.378 | 5.560 | 2.184 | 3.464 | 4.745 | 6.025 | 2.353 | 3.732 | 5.111 | 6.492 |
| 10 | 6 | 1.425 | 2.260 | 3.096 | 3.932 | 1.544 | 2.450 | 3.355 | 4.261 | 1.664 | 2.639 | 3.614 | 4.590 |
| | 12 | 2.015 | 3.197 | 4.378 | 5.560 | 2.184 | 3.464 | 4.745 | 6.025 | 2.353 | 3.732 | 5.111 | 6.492 |
| | 18 | 2.468 | 3.915 | 5.363 | 6.810 | 2.674 | 4.243 | 5.811 | 7.380 | 2.882 | 4.571 | 6.259 | 7.951 |
| | 24 | 2.850 | 4.522 | 6.193 | 7.865 | 3.089 | 4.900 | 6.711 | 8.523 | 3.328 | 5.278 | 7.229 | 9.181 |
| 15 | 6 | 1.745 | 2.769 | 3.792 | 4.816 | 1.891 | 3.000 | 4.110 | 5.219 | 2.038 | 3.232 | 4.595 | 5.623 |
| | 12 | 2.468 | 3.915 | 5.363 | 6.810 | 2.674 | 4.243 | 5.811 | 7.380 | 2.882 | 4.571 | 6.259 | 7.951 |
| | 18 | 3.023 | 4.796 | 6.569 | 8.341 | 3.276 | 5.197 | 7.118 | 9.039 | 3.529 | 5.598 | 7.667 | 9.783 |
| | 24 | 3.490 | 5.538 | 7.585 | 9.632 | 3.782 | 6.001 | 8.219 | 10.438 | 4.076 | 6.464 | 8.853 | 11.244 |
| 20 | 6 | 2.015 | 3.197 | 4.378 | 5.560 | 2.184 | 3.464 | 4.745 | 6.025 | 2.353 | 3.732 | 5.111 | 6.492 |
| | 12 | 2.850 | 4.522 | 6.193 | 7.865 | 3.089 | 4.900 | 6.711 | 8.523 | 3.328 | 5.278 | 7.229 | 9.181 |
| | 18 | 3.490 | 5.538 | 7.585 | 9.632 | 3.782 | 6.001 | 8.219 | 10.438 | 4.076 | 6.464 | 8.853 | 11.244 |
| | 24 | 4.030 | 6.394 | 8.758 | 11.122 | 4.368 | 6.929 | 9.491 | 12.052 | 4.706 | 7.464 | 10.223 | 12.983 |

## Technical Data Disclaimer

- Indicative maximum span provided are based on generic permissible design wind pressure of 2kPa.
- Span values and product technical information provided are subjected to variance by project specific requirements & influence factors such building location, terrain category & local pressure effects.
- Span values provided are based on typical scenario where product specified are fixed at one end; simply supported at the other end and in either horizontal or vertical orientation.
- If the product specified is required to function as barrier for fall protection or as trafficable element, maximum span and pitch nominated may be reduced.
- Spans values provided could be influenced and reduced when used in dynamically sensitive wind environment.
- For project specific product selection or preliminary design & engineering consultation, please contact 1300 165 678 or sales@louvreclad.victor.nichestudio.biz to arrange or book a meeting.



## Inspire with Quality

As leaders in the building envelope market, we are known for exceptional quality and lasting value. Our credibility, wealth of knowledge, and unmatched competence enable us to inspire exterior solutions that look good and perform better.



## The MadeRight Guarantee

Following our proven process enables us to develop solutions we're proud to put our mark of quality to. We guarantee that all projects will be delivered in a timely manner, be on specification, engineered to Australian standards and finished to the highest quality.



## Made to Perform

Louvreclad solutions are made to last and manufactured on-site using high-quality Australian aluminium and steel. As an organisation we are driven to get a thousand things right everyday to achieve our vision to be the face of Australian Building.
Our facades are not here to be average, they are here to perform – and so are we.

# Speak to an expert

Reach out today to discuss your facade solution requirements;
we would love to hear from you.