

“We Move Air”

FIRE-X 1620

NATURAL SMOKE & HEAT EXHAUST VENTILATOR



The Curvent Fire-X 1620 fire ventilator is a louvred bladed slope mounted fire ventilator with a low profile design to enhance the architectural aesthetics of any building. The louvred blades are designed to close individually over its own rain channel, providing a waterproof system in the closed position. In the event of fire, the spring loaded louvred blades open automatically to allow hot gasses to exhaust. This will aid in the buildings structural integrity against collapse. The smokeless layer of fresh air created at lower level creates safe evacuation passage for people and assists in fire fighting disciplines. Natural day to day ventilation is made possible with the addition of electromechanical or pneumatic operating systems or Curvent Pinnacle Roof Turbine ventilators. The ventilator is renowned for its versatility. It provides for large ventilation areas, and can be custom built to suit most steel structures, roof profiles and specific design requirements.

Product Materials Finishes:

- Galvanised
- Aluminum
- Zincalume
- Stainless Steel
- Powder Paint
- Chromadeck

Optional Accessories

- Pinnacle Roof Turbines
- Burglar Guards
- Roof Closures
- Dust Seals
- Electromechanical Operation
- Pneumatic Operation
- Rain Detectors
- Bird Guards

Product Features

- Fire & Natural Day to Day Ventilation
- Standard Fusible Link Operation
- Interchangeable Blade Finishes
- Large Ventilation Capabilities
- 1 Year Product Guarantee
- Low Profile Construction
- Extremely Cost-Effective
- Suit Most Roof Profiles
- Minimal Maintenance
- Robust Construction
- Superior Aesthetics



Louvred Ventilator Model Type	1620B	1620C	1620G	1620H	1620K
Aggregate Throat Area	1.63m ²	2.54m ²	3.19m ²	3.71m ²	4.22m ²
Free Measured Throat Area (Av)	1.18m ²	1.91m ²	2.43m ²	2.84m ²	3.25m ²
Coefficient of Discharge (Cv)	0.66	0.66	0.66	0.66	0.66
Aerodynamic Free Area (AvCv)	0.78m ²	1.26m ²	1.60m ²	1.87m ²	2.15m ²
Aggregate Throat Dimensions (AxB) in mm	1265W x 1290L	1650W x 1540L	2070W x 1540L	2070W x 1790L	2070W x 2040L
Overall Ventilator Dimensions (Cx D) in mm	1595W x 1620L	2045W x 1870L	2400W x 1870L	2400W x 2120L	2400W x 2370L
Purlin Spacing Required in mm	1300	1600	1600	1800	2000
Mild Steel Mass (Kg)	32	58	73	85	99
Number of Blades	5	6	6	7	8

SPECIFICATION PROCEDURE:

- 1) Select the Model in accordance with the ventilation requirements and roof purlin spacing
- 2) Select the ventilator material type (i.e. Aluminium, Chromadek or Galvanised)
- 3) Select the fusible link activation temperature (Normally 72°C)
- 4) Select a secondary opening system if required (Normally 24V DC Electromechanical)
- 5) Select any accessories required (Dust Seals, Burglar Bars, Rain Detectors etc.)

EXAMPLE:

A specification for 19.9m² Free Measured Area (Av) fire ventilation required with 1600mm roof purlin spacing available at the apex of the roof, manufactured in Chromadek material, colour Fish Eagle White, electromechanically operated, with dust seals and burglar bars the would be:

CALCULATION

Ventilation required ÷ Free Measured Throat Area (Av) 19.9m² ÷ 1.99m² (Av of the Fire-x 1620C)
= 10 x Curvent Fire-X type 1620C Ventilators

SPECIFICATION DESCRIPTION:

10x Curvent Fire-X type 1620C slope mounted natural smoke & heat exhaust ventilators, Chromadek material, colour Fish Eagle White, with fusible links to activate at 72°C, complete with 24V DC electromechanical operating system, dust seals and burglar bars, installed in accordance with the manufacturers detailed installation specifications:
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