

NATURAL SMOKE & HEAT EXHAUST VENTILATOR

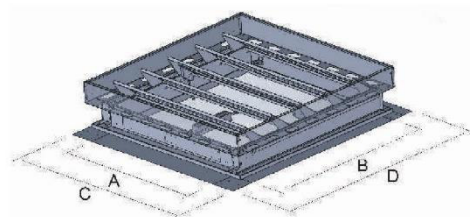
The Curvent Fire-X 1620-EN fire ventilator is a louvre bladed slope mounted fire ventilator with a low-profile design to enhance the architectural aesthetics of any building. The Fire-X 1620-EN ventilator has been tested and certified by a notified body in terms of the European Union that all provisions concerning the assessment and verification of consistency of performance described in annex ZA of EN 12101-2: 2003-09 are applied and that the ventilator fulfills all the described requirements for these performances. The ventilator proudly bares the CE mark.

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 building's structural integrity against collapse. The smokeless layer of fresh air created at lower level creates a safe evacuation passage for people and assists in firefighting disciplines. Natural day-to-day ventilation is made possible with the addition of an electromechanical operating system.

Louvre Ventilated Model Type	1620B	1620C	1620G	1620H	1620K
Geometric Area (Av)	1.45m ²	2.33m ²	2.97m ²	3.45m ²	3.94m ²
Coefficient of Discharge (Cv)	0.61	0.61	0.62	0.62	0.63
Aerodynamic Free Area (Aa)	0.89m ²	1.42m ²	1.84m ²	2.14m ²	2.48m ²
Geometric Throat Dimensions (A+B) in mm	1125W x 1290L	1510W x 1540L	1930W x 1540L	1930W x 1790L	1930W 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 Space Required in mm	1300	1600	1600	1800	2050
Mild Steel Mass (Kg)	41	52	55	66	77
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. Galvanised)
3. Select the fusible link activation temperature (Normally 93°C)
4. Select a secondary opening system if required (Normally 24V DC Electromechanical)
5. Select any accessories required (Rain Detectors etc.)



EXAMPLE:

A specification for 23.3m² Geometric Area (Av) fire ventilation required with 1600mm roof purlin spacing available at the apex of the roof, manufactured in galvanised material. electromechanically operated, with Roof Up-Stand Base the calculation would be:

CALCULATION:

Ventilation required of Geometric Area (Av) 23.3m² / 2.33m² (Av of the Curvent Fire-X 1620C-EN)
 = 10 x Curvent Fire-X type 1620C-EN Ventilators

SPECIFICATION DESCRIPTION:

10x Curvent Fire-X type 1620C-EN slope mounted natural smoke & heat exhaust ventilators, galvanised material with fusible links to activate at 93°C, complete with 24V DC electromechanical operating system, with Roof Up-Stand Base. installed in accordance with the manufacturers detailed installation specifications.



EN12101-2 Test Parameters

Annex B, determination of aerodynamic free area (Various according to type of ventilator)

Annex C. reliability test (10 000 Cycles dual purpose ventilator)

Annex D, opening under load test (Various SL COO according to type of ventilator)

Annex E, low ambient temperature test (Determined to -10°C)

Annex F. wind load test (Various WL 5300 according to type of ventilator)

Annex G. heat exposure test (300°C for 30 minutes <10% reduction in throat area)

Product Features

- Performance Certified to EN 12101-2:2003-09
- Galvanised Z275 Corrosion Resistance
- Fire & Natural Day-to Day-Ventilation
- Large Ventilation Capabilities
- 1 Year Product Guarantee
- Easy Installation Benefits
- Low Profile Construction
- Extremely Cost-Effective
- Suit Most Roof Profiles
- Minimal Maintenance
- Robust Construction
- Superior Aesthetics

Optional Accessories

- Roof Up-Stand Base
- Roof Closures
- Dust Seals
- Electromechanical Operation
- Rain Detectors
- Bird Guards

Product Materials Finishes

- Galvanised
- Powder Coating
- Zincalume
- Aluminium
- Chromadek