



Fire Rated Air Valves

Product Description

Tenmat's Fire Rated Air Valves are a unique and cost effective fire rated solution where recessed ceiling air valves are to be installed in fire rated floor/ceiling constructions. In a fire situation, the integral intumescent material rapidly expands to seal off the air valve to help maintain the fire resistance rating of the ceiling. This limits the risk of fire and heat spread throughout the building.

The Fire Rated Air Valves are available in all common sizes for both Extract and Supply. The Fire Rated Air Valve is installed as normal with air flow through the air valve unaffected. The product requires no maintenance after installation. The Fire Rated Air Valves suitable for domestic homes, as well as apartments, hotels and other multiple occupancy buildings where fire ratings exist.

Product Details

- Extract and Supply versions
- 60 Minutes Fire Rating in Solid Timber Joist Floor/Ceilings Constructions
- 30 Minutes Fire Rating in Metal Web Joist and Solid Timber Joist Floor/Ceiling Constructions
- No maintenance required
- Meets requirements of Approved Document B
- Simple to install

Sizes

Extract (Diameter)	Supply (diameter)
80mm	80mm
100mm	100mm
125mm	125mm
150mm	150mm
200mm	200mm

Test Data

Report Type	Fire Test Lab	Report Number	Construction	Fire Rating
Fire Test to BS EN 1365-2: 1999	The Building Test Centre	BTC 18074F	Solid Timber Joist Floor	60 minutes
Fire Test to BS 476: Part20: 1987	Chiltern Fire	IF10090	Solid Timber Floor	60 minutes
Fire Test to BS EN 1365-2: 2014	WarringtonFire	394530 Iss. 4	Metal Web Joist Floor	30 Minutes

60 minute fire rating performance can only be offered for solid timber joist floors and not for engineering Metal Web or I-Beam joist floors.

60 minute rated floors to be minimum 2x 12.5mm fire rated plasterboard layers to the underside, min. joist size of 225mm x 45mm at max. 60mm centres and min. 22mm timber floor boards.

30 minute rated floors to be minimum 1x 15mm or 2x 12.5mm thick fire rated plasterboard on the underside.

Floor construction to be one of the following:

Mitek Posi-Joist made from min. 47mm wide x 70mm high top and bottom flanges and galvanised steel web

Timber joists min. 225mm high x 45mm wide C24 grade timber

In all above cases the ducting must not penetrate any element of the loadbearing floor system other than the plasterboard layer.

Fitting Instructions

- Cut hole in ceiling to suit the outside diameter of the air valve mounting ring
- Fix the air valve to the ceiling via the screw holes in the valve
- Attach ducting onto the air valve mounting ring
- Fit the body of the valve into the mounting ring with a quarter turn twist
- Set inner cone clearance to provide required air flow rate (max. 12mm)
- Ensure the air valve is fitted snugly within the ceiling with no gaps or voids
- The penetration is then sealed against the spread of fire and the fire rating of the floor system is maintained
- Other ceiling penetrations must be fitted a minimum of 200mm apart from the Fire Rated Air Valves

Note:

The Fire Rated Air Valves are not tested or approved for use in walls or partitions.

Storage & Durability

Storage	Dry, ambient
Transportation storage temperature	-20°C to +70°C
Working Life	48 years
Durability	Type X intended for use in conditions exposed to weather (UV, rain, frost)
Fungal Resistance	Protected by polythene
Smoke/Halogen Content	Low Smoke / Zero Halogen

Note:

Working life and durability refers to the intumescent material used within the extract valves.

Fire Rated Air Valves

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Advanced materials.
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Tenmat warrants the materials it produces will conform to Tenmat specifications and approved drawings where applicable. It is entirely the customer's responsibility to make the final product choice and satisfy themselves of the suitability of the product for the intended application, carrying out testing where required. For construction projects, all products which the customer is intending to use on a particular project must be approved in writing by the customer's building designer, system designer or design control professional, to ensure compliance with the latest regulations.

The information contained in Tenmat data sheets is presented in good faith. Tenmat Limited makes passive fire protection product suggestions based solely upon and limited to the information made available to Tenmat. Tenmat possesses knowledge of fire test data and offers manufacturers installation advice. Within reason, Tenmat is skilled at offering opinion concerning the installations in question, and can comment on interfaces with other construction materials, but this is not a recommendation or decision. Decisions on overall building fire strategy are not made by Tenmat. Tenmat products have been tested for a wide range of construction types, and they must be only used in accordance with Tenmat test evidence. Each specific Tenmat product must be installed into a construction that matches the corresponding test report. Tenmat product performance requires safe and proper handling and correct installation.