

# PRODUCT DATA SHEET

CI/SfB

(57.7) X (K2)

## THERM-A-GRILLE

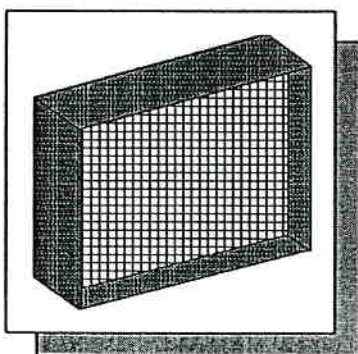
### A NEW GENERATION OF 60 MINUTE FIRE RESISTANT VENTILATORS FOR WALLS AND DOORS

#### INTRODUCTION

There is often a requirement for a ventilation aperture to be cut into a fire resisting compartment wall or door. This penetration breaches the integrity of the element so it is necessary to fit a suitable fire resistant ventilator unit. THERM-A-GRILLE offers a specially designed solution to the problem by providing a lightweight intumescent ventilator core with excellent airflow characteristics and rapid activation in the event of a fire.

#### DESCRIPTION

THERM-A-GRILLE consists of two sheets of steel mesh that have been coated with a graphite based intumescent material. The coating thickness has been optimised to ensure rapid activation whilst maintaining a high free area and good air flow rate. The sheets



are folded to form a box section which gives the assembly high strength and rigidity, provides a flange for fixing and also carries an intumescent edge seal. There is very little heat transfer between the two grille plates to ensure good insulation. The flanges are fixed at 150mm centres with No 8 screws (not supplied) for easy fixing. Overall

dimensions are 40mm thickness and width/height between 100 and 600mm. This section enables THERM-A-GRILLE to be fitted to any 30 minute or 60 minute fire door.

#### PERFORMANCE

The fire performance of THERM-A-GRILLE has been proved in tests carried out to BS476:Pt22:1987 where a grille measuring 570x570mm obtained an integrity and insulation rating of 66 minutes when mounted in a fire door panel. The free area of the grille is over 50% so the 600x600mm size vent has an effective ventilation aperture of 185,000mm<sup>2</sup>.

#### AVAILABILITY

THERM-A-GRILLE is available in stock sizes ranging from 100x100mm up to 600x600mm in 50mm steps in any combination of width and height. It can also be produced to special order in any intermediate size.

#### INSTALLATION

THERM-A-GRILLE is supplied ready for mounting into any vertical aperture. It is fitted as supplied and does not require any additional mastic sealant to its perimeter. Fixing should be by 2" No 8 steel screws through the mesh forming the flange. The grille should be fitted centrally within the thickness of the fire resisting element. For stud and plaster walls or any element where a void is present a steel sleeve should be provided to line the full depth of the aperture. Fascia or louvre plates may be fitted to the surface of the substrate if required.

**ifsa**  
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