

PRODUCT DATA SHEET

CI/SfB

(57.7) X (K2)

THERM-A-HINGE

A COST EFFECTIVE METHOD OF PROTECTING FIREDOOR HINGES

INTRODUCTION

It has been proved conclusively that the ironmongery fitted to firedoorsets with ratings over FD30 introduces a great weakness to the door's overall performance unless some additional protection is applied over and above that afforded by the normal door edge intumescent strip. Time and time again, doorsets fail fire performance tests. This is due to premature burn through by the upper and mid-height hinge positions, and whilst this has been recognised officially in BS8214 (1990), there has been no specific guidance offered to specifiers and installers as to what type of intumescent materials to employ. Pastes and mastics are messy and it is difficult to control the rate of application, plugs are time consuming to fit and the normal 15 or 20x4mm seals do not have the extra volume of material required for satisfactory performance. Therm-A-Hinge, offers a tailored solution to the problem by providing a pre-sized backing pad of intumescent material for fitting behind the hinge blade.

DESCRIPTION

Therm-A-Hinge backing pads are produced from Intumescent Seal's exclusive Therm-A-Flex graphite based intumescent material in a 2mm thick form. (This is the identical material used in our dooredge strips to alleviate any unwanted interaction between the seals.) This

intumescent sheet is pre-cut to match the blade of the hinge, so when installed the material is completely hidden from view.

PERFORMANCE

The fire performance of Therm-A-Hinge backing pads has been proven many times in full-scale BS476 part 22 (1987) fire tests on doorsets of 60 minutes construction. Test reports are available on request.

AVAILABILITY

Therm-A-Hinge backing pads are produced in three sizes;

- 32mm x 100mm
- 36mm x 100mm
- 48mm x 100mm.

All 2mm thick and are pre-packed in sets of twelve, giving enough pads to protect the hinges on a pair of doors.

INSTALLATION

Therm-A-Hinge pads should be under hinges on all fire doorsets with a rating of over 30 minutes. The rebate in door edge and frame should be cut 2mm deeper than normal, to enable the pad to be placed under the hinge blade, with the hinge then ending flush with the timber. The Therm-A-Hinge pads are fitted under both blades of the hinge and are simply trapped between hinge and timber, fixing screws can simply be driven through the intumescent material. NO adhesives or sealants are required.

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