

PRODUCT DATA SHEET

THERM-A-STOP

THE ALL BRITISH NEW GENERATION COMBINED FIRE AND SMOKE SEAL



INTRODUCTION

The installation of intumescent fire and ambient temperature smoke seals around fire door assemblies is now becoming essential if the requirements of BS5588 'Fire Precautions in the design and construction of buildings' is to be met.

BS5588 throughout its code of practice now designates certain fire resistant doorsets which are required to retard the passage of smoke at ambient temperature with the suffix S.

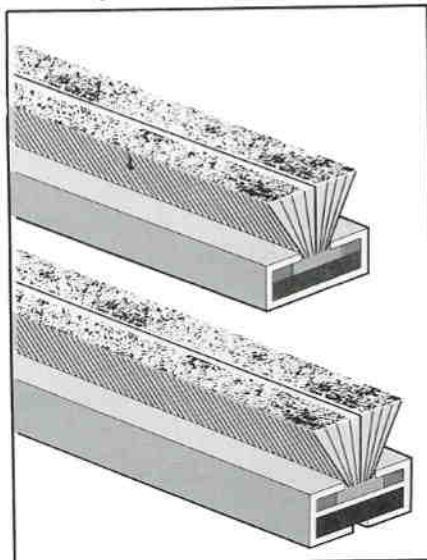
Hence;

FD20S implies not less than 20 minutes integrity.

FD30S implies not less than 30 minutes integrity.

FD60S implies not less than 60 minutes integrity.

All with the additional ability of retarding the flow of smoke.



THE PRODUCT

THERM-A-STOP has been designed for use in fire resting door assemblies which have been designated as smoke control doors. The seal restricts the spread of smoke by reducing the flow through the airgaps between the leaf and the frame or an adjacent leaf edge during the early stages of a fire.

It is suitable for use on fire resisting door assemblies manufactured from wood, steel or combinations of both.

In a fire situation an intumescent foam is produced which is voluminous and also capable of exerting a pressure, high enough to restrain movement of the door edges adjacent to the seal. THERM-A-STOP is therefore ideally suited to applications where some applied restraint, combined with normal gap-filling properties of intumescent materials is needed. Unlatched door leaves, or double swing assemblies are most likely to benefit from such characteristics across the head, although the seal is equally well suited to conventional latched single-leaf doors.

APPLICATION

THERM-A-STOP intumescent fire and ambient temperature smoke seals are available in PVC holders which are either 4 mm or 5 mm deep.

ifsa

The Intumescent Fire Seals Association



Intumescent Seals

A choice is available to meet market demands.

For most latched single-leaf, single-swing 30 minute (FD30S) timber fire resisting door assemblies a single 10 mm x 4 mm or 10 mm x 5 mm strip down each jamb and across the head will normally suffice.

Unlatched single-leaf timber door assemblies will invariably provide a 30 minute rating whether single or double-swing with a 10 mm x 4 mm or 10 mm x 5 mm strip fitted down the jambs; depending upon the nature of the door however it may be prudent to increase this across the head.

Most latched single-leaf single-swing 60 minute (FD60S) timber fire-resisting door assemblies, will satisfy the requirement of BS 476 : parts 20 and 22 1987 test procedures when fitted with a single 20 mm x 4 mm or 20 mm x 5 mm strip across the head and down both jambs. Unlatched doors may require additional material across the head.

The intumescent foam produced by THERM-A-STOP has high temperature tolerances and so is well suited for use with steel door assemblies where conventional intumescent foams may break down.

DESCRIPTION

THERM-A-STOP is formulated from a unique chemical formulation based on expandable graphite. The seal is supplied in a PVC casing.

Unlike many other types of intumescent material, THERM-A-STOP is not affected by moisture and therefore does not require any further protection; it is also unaffected by atmospheric carbon dioxide.

THERM-A-STOP contains a high density ambient temperature pile seal which has a polypropylene fin for improved smoke control at ambient temperatures.

THERM-A-STOP intumescent fire and smoke seals are all designed to perform the function of a conventional draught and weather seal in daily use.

AVAILABILITY

THERM-A-STOP is supplied in standard colours; brown, white, cream and red and is available in the following nominal sizes;

10 mm x 4 mm	10 mm x 5 mm
20 mm x 4 mm	20 mm x 5 mm
25 mm x 4 mm	
38 mm x 4 mm	

The pile height projects 5 mm from the PVC holder and is generally acceptable for sealing the average gap of 3 to 4 mm between door and frame. If wider gaps have to be accommodated a higher profile can be supplied.

THERM-A-STOP is available in standard lengths of 1050 mm and 2100 mm and can be supplied with or without double sided adhesive tape.

TEST EVIDENCE

THERM-A-STOP meets the fire & smoke performance requirement of BS 476 : parts 20, 22 & 31.1, and test evidence is available on request.

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