

FIREPRO CENTABUILD

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CI/SfB

INT FIRE SEAL DATASHEET – Mar 14

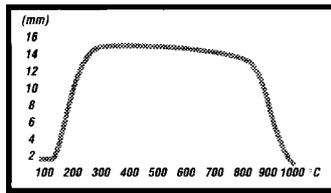
Product specifications can change. Contact us to ensure you have our latest datasheet

INTUMESCENT FIRE DOOR SEALS BP RANGE

Firepro Fire Door Seals are easily fitted to new door sets or may be retrofitted to existing doors to improve their fire performance or smoke control capability.

Firepro Fire Door Seals are composed of an intumescent core, which provides the fire resistance, encased in a rigid PVC casing and are available with an optional smoke control brush.

- The intumescent core material is of the highest quality with known durability of several decades.
- Utilising a unique form of pressure development, the intumescent material is not inhibited by its casing while at the same time is protected from possible damage.
- The PVC encased seals are easy to handle and install.
- Fitting is exceptionally simple, with the high performance self-adhesive backing.

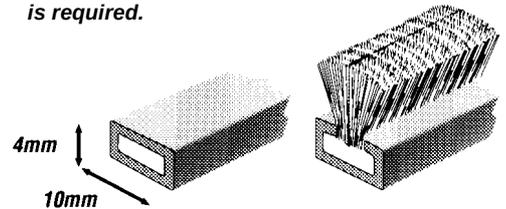


Temperature related expansion of intumescent core.

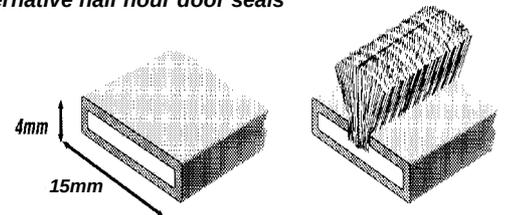
SPECIFICATIONS

SS - with brush pile smoke seal.
Available in an attractive bronze finish in 2.1 metre lengths.

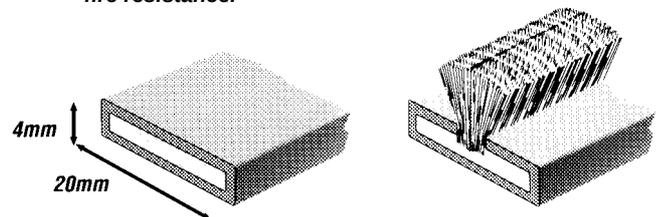
BP1004 and BP1004SS
Suitable for use on a majority of fire doors/frames where half hour resistance is required.



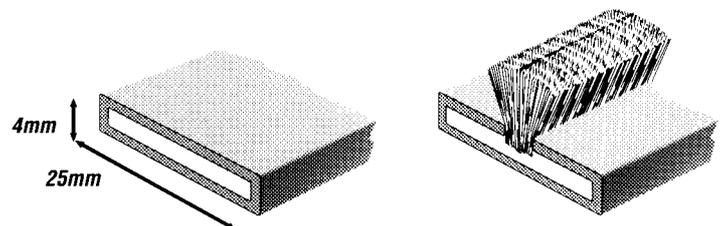
BP1504 and BP1504SS
Alternative half hour door seals



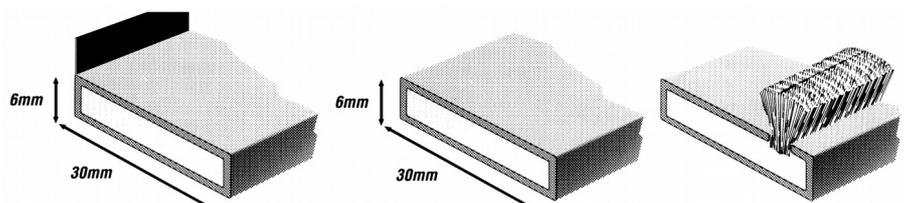
BP2004 and BP2004SS
Standard profile recommended for one hour fire resistance.



BP2504 and BP2504SS
General purpose seal providing up to one hour resistance coupled with substantial distortion control.



BP 3006AF - Available in silver, **BP3006** and **BP3006SS** - Available in silver or bronze.



NOTE: The technical information and suggestions for use and application presented herein represent the best information available to us and are believed to be reliable. If used beyond the situations detailed on this datasheet we advise confirming their suitability before installation. All dimensions are nominal.

We reserve the right to make changes or to withdraw designs and products without notice.

APPLICATION OF FIREPRO INTUMESCENT FIRE DOOR SEALS

This data is intended to cover application of Firepro intumescent sealing strip to fire resistant doors and frames. Separate data sheets are available giving design and performance details of the seals illustrated. Double leaf and 180° swing doors present a very complex subject and only broad generalisations are given here. In cases of difficulty, more specific information will gladly be supplied on request.

OPERATION

Firepro fire seals are designed to seal off the air gap between door and frame in the event of a fire, thus increasing the integrity of the structure and preventing the passage of flames, hot gasses and medium and hot smoke. Seals fitted with an integral brush pile are also effective against "cold" smoke, i.e. smoke from a fire in a remote location relative to the door.

In every day use the seal does not interfere in any way with the normal opening and closing operation of the door. In an actual fire condition, sealing is accomplished by swelling and expansion of the intumescent core which occurs only at temperature above approximately 150°C, at which point no life could exist on the hot side of the door. A firm seal is effected and will remain for the designed fire resistance period but no difficulty would be experienced in opening the door after the fire, or indeed during the fire, if required by fire-fighting personnel.

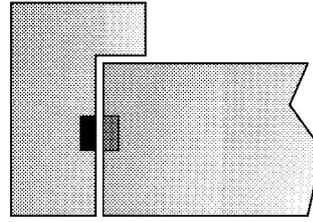
FITTING POSITIONS

In accordance with the recommendations of the fire testing authorities, the intumescent sealing strip should be fitted around all edges of either door leaf or frame. Location in the door frame is generally preferred, since no difficulty will then be experienced in hanging and fitting of the door leaf, however the bottom seal should be fitted on the door. The strip should always be set in a groove of suitable width and depth such that the section does not stand proud of its surroundings. Positioning the strip as shown will minimise any effects of distortion which frequently occurs during an actual fire.

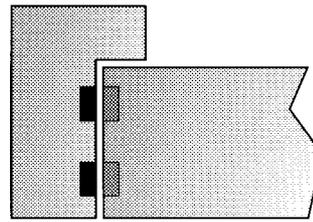
FIXING

Firepro Centabuild Ltd recommend adhesive fixing of fire seals. They are supplied ready to fit with a high bond, acrylic double-sided backing tape. The seals are adhered using the tape into a routed groove.

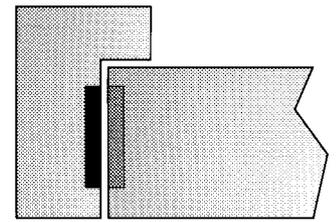
All Firepro Fire Seals are supplied with square cut ends to enable neat butt joints to be made. Cutting to length and mitering can be carried out using a hack saw or fine toothed power saw.



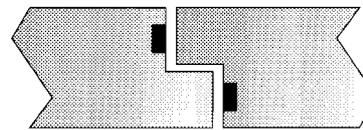
HALF HOUR DOORS: Most conveniently fitted in the door frame. Alternatively fit in door leaf.



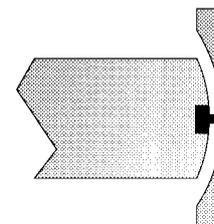
ONE HOUR DOORS: Two strips more conveniently fitted in the door frame. Alternatively fit in door leaf. Widely spaced to allow strips to pass lock plates and hinges uninterrupted.



ONE HOUR & HALF HOUR DOORS: More conveniently fitted in the door frame. Alternatively fit in door leaf.



DOUBLE LEAFED DOORS
In order to provide equal resistance to fire from either side, two seals are recommended for

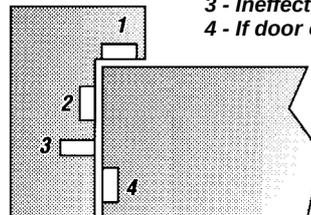


rebated meeting stiles and unrebated meeting stiles. In unrebated stiles a cold smoke seal on one stile only is used to compensate for absence of rebate. One seal only required at heel position.

INEFFECTIVE FITTING POSITIONS:

1 and 2 - If door opens into fire there will be a loss of integrity in the event of distortion.

3 - Ineffective if fitted on its edge.
4 - If door opens away from fire there will be a loss of integrity in the event of distortion.



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