



Joint Development Project.

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TAYFIRE UNIVERSAL FIRE (TUF) SEAL **4 1/2 HR SEISMIC SEAL** **MOVEMENT FROM 20MM UP TO 275MM**



General Information:

The Tayfire Universal Fire (TUF) Seal is a passive linear gap seal which has been independently tested by Warrington Fire Research Centre to BS 476: Part 20: 1987 including joints, achieving over 4 hours integrity.

It is intended for use as a fire and smoke sealing system for all kinds of gaps and joints including larger than normal movement, expansion and contraction, typically as required in metal framed buildings, airports, shopping malls & tunnel joints. It also forms a specialised system to address the typical 3 axis movement that occurs in the event of seismic shock.

Gaps and joints created during construction tend to be uneven in width and the formation of a weather resistant fire and cold smoke seal can cause problems whilst at times ensuring adequate air flow through cavities in ambient conditions.

The Tayfire Universal Fire (TUF) Seal has been designed to overcome these problems. The system consists of retaining brackets bonded with specialist intumescent material. An outer layer of glass cloth bonded with intumescent encompasses the seal.

It is available in 1 metre lengths, and is easily and quickly installed. TUF seals are durable and require minimum maintenance. The fire properties of the seal are not affected by water and can therefore be fitted in areas subject to water ingress.

The seal is designed to cater for movement in all directions and can cope with a joint which has a movement range from 25mm up to 185mm.

Applications:

The versatility of the TUF seal allows it to be used in a wide variety of internal and external applications in both new build and refurbishment.

Seismic movement joint.
Fire seal to wall cavities.
Joint at wall heads.

Floor separation fire/movement joint.
Junction of compartment wall/floor or structural soffit.
Joint between cladding and floor.

Description:

The Tayfire Universal Fire seal consists of two pre-drilled metal brackets bonded with a specialist intumescent material on the inner face. An outer layer of glass cloth laminated with intumescent encompasses the seal. It is installed by fixing the metal angles to the edges of the concrete on either side of the gap. It is butt jointed at the angles and the glass cloth overlap of one seal is bonded with silicone onto the next seal. The seal can be manufactured with a variety of bracket designs to take into account various fixing situations.

Special wall pads can be provided where the seal butts up against a wall at the end of a gap.



(Pictures from test installation)

Dimensions:

TUF seals are manufactured in 1 metre lengths

The appropriate sizes for joint gaps are as follows:

JOINT GAP SIZE	PRODUCT REF	INTEGRITY	INSULATION
20MM – 75MM	TUF 75	270 MINS	90 MINS - TESTED
20MM – 100MM	TUF 100	270 MINS	ASSESSMENT AVAILABLE
25MM – 185MM	TUF 185	270 MINS	190 MINS - TESTED
30MM – 275MM	TUF 275	ASSESSMENT AVAILABLE	

2 HR INTEGRITY SEALS ARE ALSO AVAILABLE.

Sitework:

The Tayfire Universal Fire seal can installed easily either by non-specialist or Tayfire's specialist installers.

A method statement and installation instructions are available.

Supply:

TUF seals together with the wall end pads can be supplied direct to contractors. If required we can also supply all fixings and silicone to the specification used in the independent fire test.

Alternatively we can offer a supply and install service.

Authority:

The Tayfire Universal Fire seal has been tested at Warrington Fire Centre to BS 476: Part 20: 1987 and achieved 270 minutes integrity and up to 190 minutes insulation.