



Product Data Sheets

Firetherm Stone Wool

Application

Firetherm Stone Wool is used to provide a fire and smoke barrier or cavity barrier to small areas such as under raised access floors or above suspended ceilings and large areas such as roof spaces.

Unusually for this type of fire barrier it can provide two hours fire integrity and 16 minutes insulation depending on head fixing details. Contact Firetherm Technical Department for further details Tel (+44 (0) 1322 551010)

As it is a high-density material it can also provide an acoustic barrier up to 44 dBA RW when used in conjunction with a suspended ceiling system.

Description

A volcanic stone wool mat, 50mm thick, supplied in rolls one metre wide and four metres long. It is reinforced with 25mm galvanised wire mesh, and can be optionally foiled on one or both sides.

It is installed using lightweight steel angle and strap, (see enclosed installation drawings) and can be hung up to 6m high. Greater drops are possible with extra steel support. Contact Firetherm Technical (+44 (0) 1322 551010) for further details.

Fire Rating

Using only one 50mm thickness of Firetherm Stone Wool it is possible to achieve two hours fire integrity and 16 minutes insulation.

Tested to BS 476 Pt 22.

Benefits

* Depending on head-fixing detail Firetherm Stone Wool Firebarrier can achieve two hours fire integrity with only one thickness. This can save up to 50% on materials and labour over competitors products for one and two hour specifications.

* Fast, cost effective installation using easy-to-source materials. Alternatively all fixings are conveniently available from Firetherm.

* Available from stock in plain wired and single side foiled. Two-side foiled available to special order.

* Good stocks of materials normally kept in our warehouse in Crayford for immediate collection or next day delivery.

Legislation

Building Regulations Section B3 states that a building should be sub-divided into compartments where this is necessary to inhibit the spread of fire within the building.

There is also a requirement in the case of cavities such as wall cavities, suspended ceilings or raised floors. "Concealed spaces in the structure or fabric of the building, or the building as extended, shall be sealed and sub-divided where this is necessary to inhibit the unseen spread of fire and smoke".

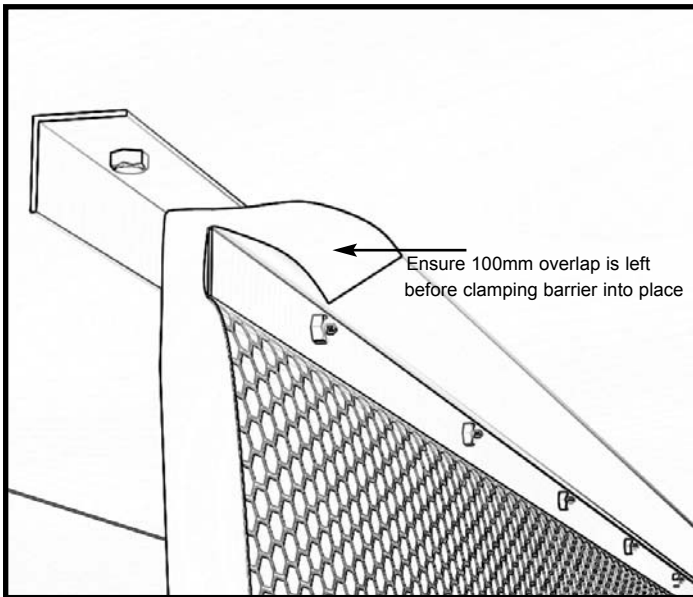
Firetherm Intumescent & Insulation Ltd, Unit F, Acorn Industrial Park, Crayford Road, Crayford, Kent. DA1 4FT. Tel: +44 (0)1322 551010. Fax: (0)1322 552727. Website: www.firetherm.com

In presenting this technical advice we cannot claim to serve in any but an advisory capacity and can undertake no liability since actual conditions of use are beyond our control.

Our Standard Terms & Conditions Apply At All Times



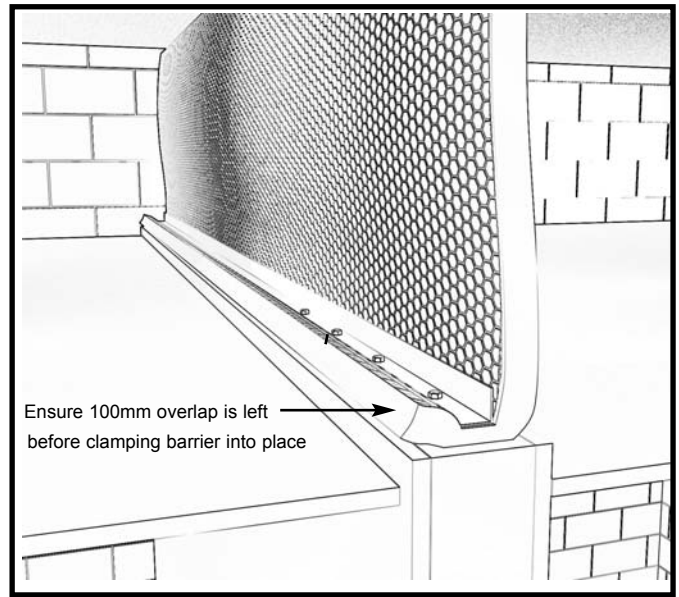
“ Stone Wool “ Fire Barrier Fixing Instructions



1. Fixing to a concrete soffit

Using 50x50mm slotted steel angle, fixed suitable with all steel anchor bolts or similar, to the relevant spacings according to the fire Integrity required and then clamp in place with 40x2mm steel slotted strap:

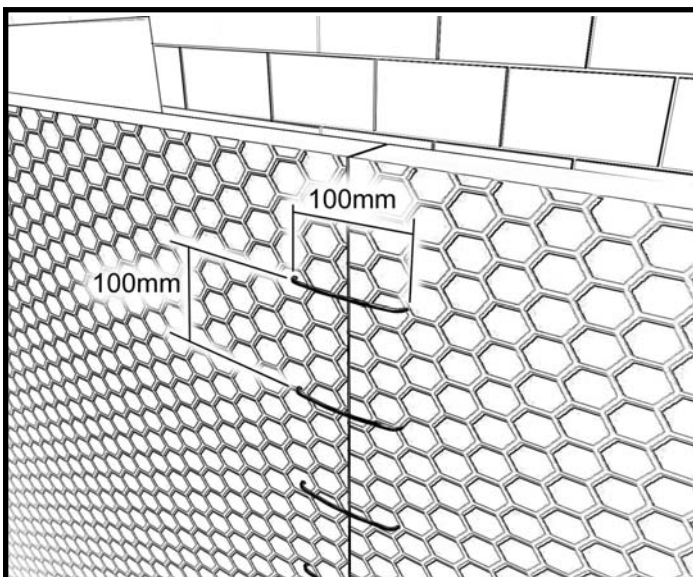
*30 minutes fire Integrity - 750mm centres.
60 minutes fire Integrity - 150mm centres.
120 minutes fire Integrity - 150mm centres.*



2. Fixing to the head of a blockwork wall

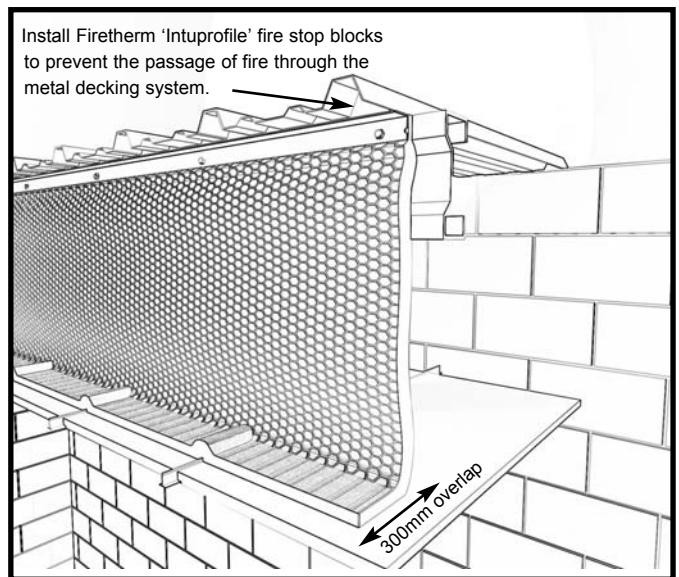
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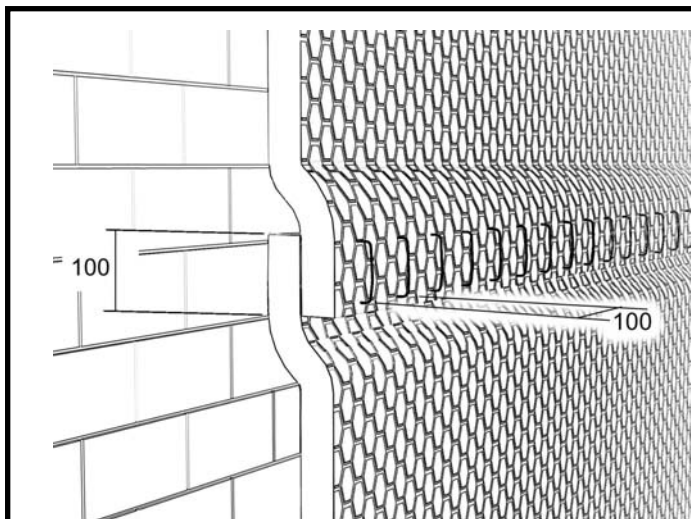
3. Butt jointing

Using a 1mm stainless steel or galvanised lacing wire create 100mm wide stitches and continue this process every 100mm down the barrier.



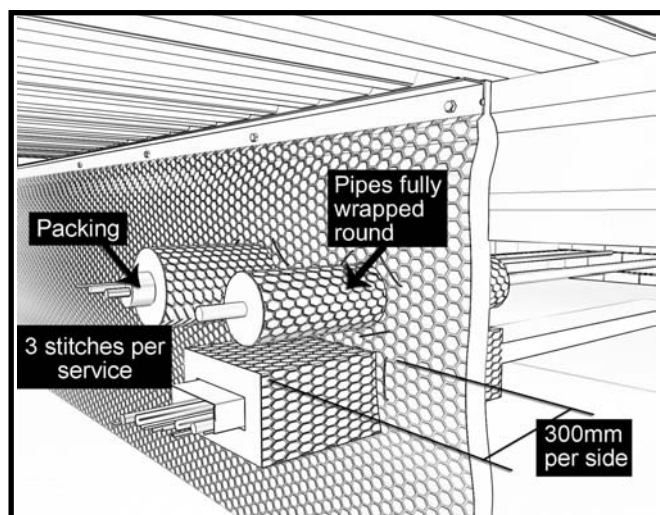
4. Fixing from metal decking to a suspended ceiling

Once barrier has been fixed securely to the metal decking(as shown in diagram 1 & 2) simply lay the barrier onto the suspended ceiling grid below, leaving a minimum 300mm overlap.



5. Extending fire barrier from 3.5m up to 6m

Create an overlap of 100mm as shown in the above diagram and then using 1mm stainless steel or galvanised lacing wire create 100mm stitches. Then continue this process across the barrier every 100mm.



6. Service penetrations

Wrap the barrier around the services 300mm deep either side and then using 1mm stainless steel or galvanised lacing wire, stitch until secure back onto the barrier wall.

PVC-U pipes or similar, which are low melting point materials, should be sleeved for 1 metre each side of the barrier. As stated in (Building Regulations Approved Document 'B' Section 11.9)

For Further Assistance Contact:
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