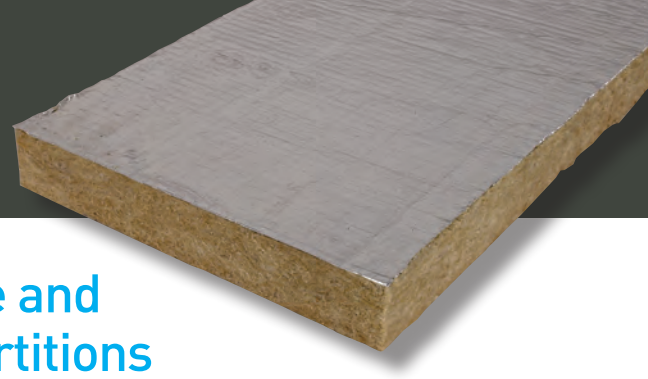
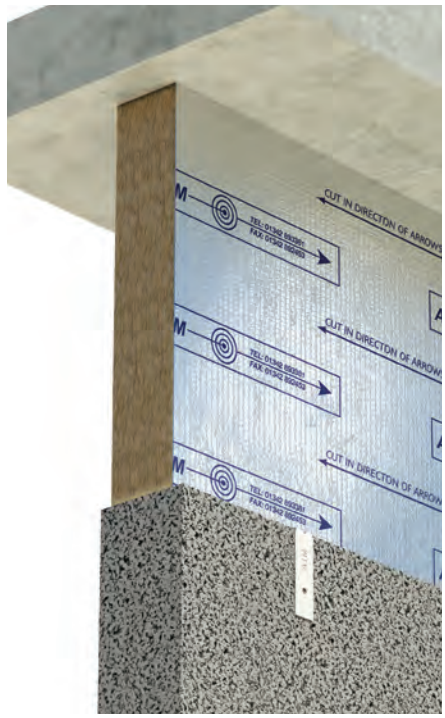
AIM Partition Head Fire Barrier



Foil Faced Rockwool stone wool Fire and Smoke Stop for large gaps above partitions and masonry walls



AIM Partition Head Fire Barrier is made from foil faced high density Rockwool stone wool and provides a fire barrier above fire rated metal frame partitions, fire rated timber partitions and masonry walls.

ROCKWOOL®

In a fire situation a partition may bow appreciably due to the heat of the fire on one side with the result that the partition head may move laterally to a significant degree. AIM Partition Head Fire Barrier is supplied with a clip system to prevent the possibility of it being dislodged and therefore ineffective in a fire situation. For voids over 250mm link straps are supplied in addition to clips in order to restrain lateral movement of the partition head.

Specification

Lengths: 1000mm

Voids: 100 - 600mm (Less than 100mm use AIM Fire Stop Strip)

- No mastics or sealants required
- Tested to BS 476 part 20 and assessed by Warrington Fire Research Centre
- Non-combustible to EN13501-1 and classified A1
- Complies with performance requirements of Class O Building Regulations
- Global Warming potential = zero
- No CFCs or HCFCs used in manufacture

Fire Performance

The performance of AIM Partition Head Fire Barrier has been tested to BS 476 part 20 assessed by Warrington Fire Research Centre.

Fire Resistance	Minimum Thickness of Fire Barrier mm	
Minutes	Gaps 101 --> 300mm	Gaps 301 --> 600mm
30	50	75
60	75	100
120	100	100 with lap joint
240	100 EHD*	NA

*EHD = Extra high density barrier with lap joints

Thickness is measured as the distance between one compartment and the next, which the fire stop or barrier is separating.

Installation

Two clips are inserted into the base of each length of AIM Partition Head Fire Barrier. The barrier is push fitted into place and it must fit tightly and completely; the clips are then screwed to the top of the partition or wall.

The Barrier must be compressed by about 5% when installed. The maximum void size is 600mm. Where the gap exceeds 250mm, the top of the partition or wall must be securely fixed by steel fixings to the soffit using steel link straps (see diagram).

HEALTH & SAFETY DATA SHEET

SAFIRE COATED BATT

REVISION 1
ISSUE DATE January 2017

Section 1: Identification of the Substance/Mixture and of the Company

1.1 Product identifier:
Safire Coated Batt stone wool insulation

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Thermal insulation, acoustic insulation and fire protectionin building construction applications.

No uses advised against for physical, health andenvironmental considerations as covered by REACH.

In terms of site use, the product shall be used inaccordance with technical guidance published by FIREUS LTD®.

1.3 Company/undertaking identification:

Fireus Ltd.
6 Thetis Road
Lune Industrial Estate
Lancaster
LA1 5QP
tel: 01524 388898
fax: 01524 383724

Email of competent person responsible for SDS:
info@fireus.co.uk

Emergency Tel.No. (office hours): 01524 388898

Section 2: Hazards Identification

2.1 Classification of the substance or mixture:
There is no hazard statement associated with this material. SAFIRE COATED BATT is not classified as dangerous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP).

2.2 Label elements:
The overall conclusion in accordance with the CLP regulation, REACH registration and the GloballyHarmonised System (GHS) is that there are no hazardous classifications associated with SAFIRE COATED BATT in respect to physical, health and environmental considerations.

2.3 Other hazards:
Use of high speed cutting tools can generate dust.
If in contact with constant heat >175°C, the binder will be slowly broken down.
Further information can be found in Section 8.

Section 3: Composition/Information on Ingredients

3.1 Substances

Substance	EC identification number	REACH registration number	Content (% weight)	Classification, labelling and packaging (EU Regulation (CE) 1272/2008)
Stone wool[1]	926-099-9	01-211-947-2313-44	95-100%	Not classified[2]
Synthetic thermosetting polymer binder			0-5%	Not classified
Mineral oil			0-0.5%	Not classified
Silicon oil/emulsion[3]			0-0.5%	Not classified

**1 Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content greater than 18% by weight and fulfilling one of the Nota Q conditions of Regulation 1272/2008.*
**2 Not classified H351 "suspected of causing cancer". Stone wool fibres are not classified carcinogenic according to the Nota Q of Regulation1272/2008. FIREUS® stone wool products do not contain CLP classified substances >0.1%.*
**3 Silicon oil/emulsion is used in place of mineral oil in certain FIREUS® products such as preformed pipe sections.*

3.2 Facing materials
SAFIRE COATED BATT may be supplied faced with various common building materials such as aluminium foil, mineral tissue/scrim/fleece, polyethylene/polypropylene film, wire mesh, bitumen, plaster board, cementitious board, ablative coatings, etc.

Section 4: First Aid Measures

4.1 Description of first aid measures:

Inhalation:
Remove from exposure. Rinse the throat and clear dust from airways.

Skin:
If itching occurs, remove contaminated clothing and washskin gently with cold water and mild soap.

Eye:
Rinse abundantly with water for at least 15 minutes.

Ingestion:
Drink plenty of water if accidentally ingested.

4.2 Most important symptoms and effects, both acute and delayed:
The mechanical effect of coarse fibres in contact withthroat, skin or eyes may cause temporary itching/inconvenience.

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4.3 Indication of any immediate medical attention andspecial treatment needed:

None required. If any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice.

Section 5: Fire-Fighting Measures

5.1 Extinguishing media:

Suitable extinguishing media:
Water, foam, carbon dioxide (CO2), and dry powder

Unsuitable extinguishing media:
None

5.2 Special hazards arising from the substance or mixture:

None special. Use normal body and respiratory protection for fire.

5.3 Advice for firefighters:

The unfaced products are non combustible, some packaging materials or facings may however be combustible.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:
In case of presence of high concentrations of dust, usethe same personal protective equipment as mentioned in section 8.

6.2 Environmental precautions:
None required

6.3 Methods and materials for containment and cleaning up:
Vacuum cleaner or dampen with water spray prior to sweeping up.

6.4 Reference to other sections:
For personal protection equipment, see section 8. For waste disposal, see section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling:
No specific measures. Preferably use a knife for cutting. If a power tool is used, provide effective dust extraction. Ensure adequate ventilation of workplace. See section 8.
Avoid unnecessary handling of unwrapped product. See section 8.

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures:
No special measures necessary.

Suitable storage conditions:
Products should be kept dry, if possible in original packaging.

Incompatible materials:
None.

Packaging material:
Products are typically packed in polyethylene film, cardboard and/or on wooden pallets.

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters:
Workplace exposure limit (WEL) 5mg/m3 gravimetric measure (total inhalable dust) and 2 fibres/ml airborne fibre limit, 8-hour time weighted averages. HSE guidance assumes that the gravimetric measure would be reached before the fibre measure. (Ref. HSE EH40).

8.2 Exposure controls

8.2.1 Appropriate engineering controls
No specific requirements

8.2.2 Individual protection measures, such as personal protective equipment

Eye protection:
Wear goggles if working above shoulders or where there is heavy dust development. Eye protection to EN 166 is advised.

Hand protection:
Use gloves conforming with EN 388 to avoid itching.

Skin protection:
Cover exposed skin.

Respiratory protection:
When working in unventilated areas or during operations which can generate emission of (various) dusts, wearing a disposable face mask in accordance with EN 149 FFP1 is recommended.

At high temperatures not usually found in building construction (>175ºC), the product binder will slowly decompose and trace gases will be released. When high temperature appliances are first put into service, gases should be vented to control exposure to fumes or appropriate respirators used.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

a) Appearance	Solid, grey-green
b) Odour	Odourless
c) Odour threshold	Not relevant. No odour
d) pH Not relevant.	Solid
e) Melting point	>1000ºC
f) Initial boiling point and range	Not relevant. Solid
g) Flash point	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)
h) Evaporation rate	Not relevant. Solid
i) Flammability	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)
j) Upper/lower flammability or explosive limits	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)
k) Vapour pressure	Not relevant. Solid
l) Vapour density	Not relevant. Solid
m) Relative density	Depends on product (typ. between 20 and 300 kg/m3)
n) Solubility (ies)	Generally chemically inert and insoluble in water
o) Partition coefficient n-octanol/water	Not relevant. Insoluble in water
p) Auto-ignition temperature	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)
q) Decomposition temperature	When heated to approx 175ºC for the first time, release of binder decomposition products occurs
r) Viscosity	Not relevant. Solid
s) Explosive properties	Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)
t) Oxidising properties	Not relevant. Non-oxidising

9.2 Other information
No further chemical or physical properties to report.

Section 10: Stability and Reactivity

10.1 Reactivity:
Not reactive

10.2 Chemical stability:
Stable

10.3 Possibility of hazardous reactions:
Not reactive

10.4 Conditions to avoid:
None specified

10.5 Incompatible materials:
None specified

10.6 Hazardous decomposition products:
When heated to approx 175°C for the first time, release of binder decomposition products occurs. See 8.2.2

Section 11: Toxological Information

11.1 Information on toxicological effects.

a) Acute toxicity
No acute toxicity

b) Irritation
In the case of coarser fibres there can be mechanical effects on skin, upper respiratory system (mucous membranes) and eyes that can cause temporary, self-fading effects (e.g. itching). No chemical effects ensue.

c) Corrosivity
No corrosivity

d) Sensitisation
No sensitisation

e) Repeated dose toxicity
No repeated dose toxicity

f) Carcinogenicity
None. Owing to its high bio-solubility, the fibre used in SAFIRE COATED BATT insulation materials is assessed as free from suspicion of possible carcinogenic effects in accordance with Regulation (EC) No 1272/2008 (ref. Nota Q). In October 2001, the International Agency for Research on Cancer (IARC) classified rock (stone) wool insulation as Group 3 (not classifiable as to its carcinogenicity in humans) ie not suspected of causing cancer in humans.

g) Mutagenicity
No mutagenicity

h) Toxicity for reproduction
No toxicity for reproduction

Section 12: Ecological Information

12.1 Toxicity
None. This product is not expected to cause harm to animals or plants during

normal conditions of use. Stone wool is principally made from non scarce rock material and recycled stone wool.

12.2 Persistence and degradability
None

12.3 Bioaccumulative potential
None

12.4 Mobility in soil
None

12.5 Results of PBT and vPvB assessment
No assessment required

12.6. Other adverse effects
Relying on entrapped air for its thermal properties, the products do not, and never have used blowing agents with Ozone Depleting Potential or Global

Warming Potential:
No flame retardants are added.

Section 13: Disposal Considerations

FIREUS® material is recyclable.
FIREUS® insulation is classified as non-hazardous waste. FIREUS® insulation waste is covered by the non-hazardous entry "17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03" in the European Waste Catalogue, established by EC Decision 2000/532/EC (hazardous waste). Under landfill regulations FIREUS® insulation waste is categorised as "waste accepted at landfills for non-hazardous waste" in accordance with EC Decision 2003/33/EC (landfill acceptance criteria).

Section 14: Transport Information

14.1 UN number
Not applicable

14.2 UN proper shipping name
Not applicable

14.3 Transport hazard class(es)
Not applicable

14.4 Packing group
Not applicable

14.5 Environmental hazards
Not applicable

14.6 Special precautions for user
None specified

HEALTH & SAFETY DATA SHEET

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture:
The overall conclusion in accordance with the CLP, GHS and REACH regulations is that there are no hazardous classifications associated with FIREUS® fibres in respect to physical, health and environmental aspects.

15.2 Chemical safety assessment:
No assessment required

Section 16: Other Information

This Safety Data Sheet has been prepared in accordance with European Commission Regulation (EU) No. 453/2010(REACH). Although REACH Regulations do not require a safety data sheet to be provided for FIREUS® stone wool insulation, this format is used by FIREUS® to provide standardized health and safety information.

All stone wool insulation products supplied by FIREUS® Limited are made of fibres exonerated from classification as a carcinogen in accordance with Regulation (EC) No. 1272/2008 (ref. Nota Q).

This data sheet does not constitute a workplace assessment.

The information provided represents the state of our knowledge regarding this material at the date of its publication.The information provided does not constitute a product specification and no warranty expressed or implied is hereby made. The information relates only to the specific material designated when used in applications it has been designed for. This information may not be valid for such material used in combination with any other materials or in any other processes, unless specified in the text.

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Unit 6 Thetis Road, Lune Industrial Estate, Lancaster, LA1 5QP
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FIREUS

passive fire protection and insulation

Suppliers of passive fire products,
acoustic and specialist insulation
Manufacturers of the Safire® Fire Stopping Range

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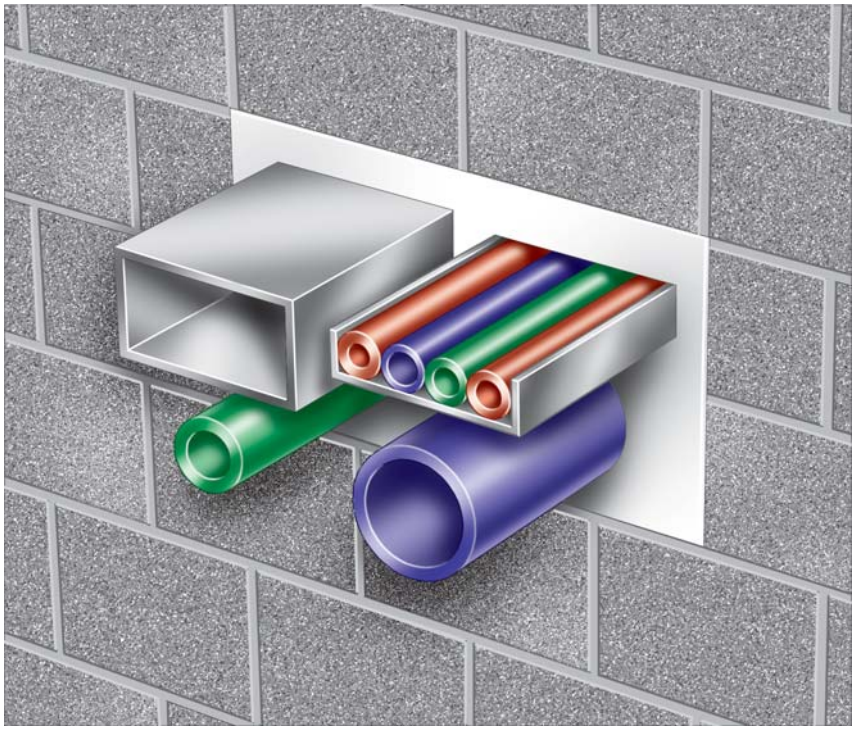
SAFIRE® BATTS

Fire rated mineral fibre slabs



Cost effective, lightweight fire protection for up to 4 hours for passages through fire rated compartment walls and floors.

- Lightweight
- Versatile
- Easily Modified
- Waterproof
- Tested to BS EN1363-1 2012, BS EN1366-3 2009

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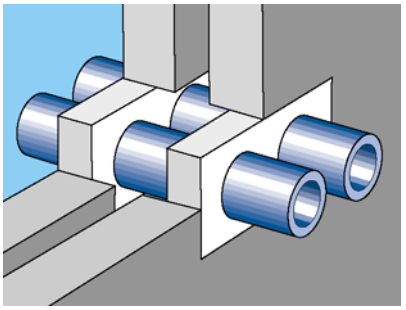
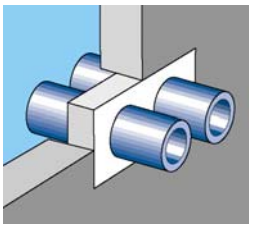
SAFIRE a brand of Fireus Ltd.

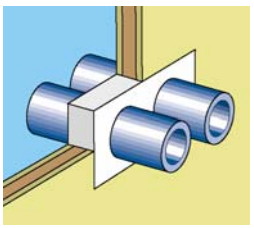
SAFIRE® BATTS

Fire rated mineral fibre slabs

Safire Fire Barriers consist of 160kg/m3 density mineral fibre slabs, factory coated with a white, class 'O' flexible, waterproof ablative coating to produce a durable fire barrier for service penetration openings. They are light, flexible and easy to handle and cut.







NO DELAMINATION
Safire Barriers are pre-treated with a PVA solution before the application of the fire resistive ablative coating. This treatment consolidates the mineral fibre, assisting the ablative coating to 'key' to the fibre surface.

SAFE TO USE
Total encapsulation by the PVA and ablative coating prevents fibre migration. Safire Batts are free from asbestos, solvents and halons and can be used with confidence in sensitive areas.

LIGHTWEIGHT
160kg/m3 density offering upto 4hours fire resistance.

WATERPROOF
Safire Batts are waterproof and can be used in high humidity areas.

EASILY MODIFIED
Safire Batts are easily modified to accomodate additional services installed at a later date, without the need for dismantling the seal.

RESISTANT & FLEXIBLE
Able to withstand significant vibration of penetrating services and normal building movement.

CERTIFICATION
Fire Test:
BMTRADA
BMT/FEP/F15235, BMT/FEP/F15236

TECHNICAL SPECIFICATION

PHYSICAL FORM	Crimped rock fibre slabs, factory encapsulated with white acrylic coating
SIZES	1200mm x 600mm x 50mm
DENSITY	160kg/m3 minimal
COATING DFT	1mm
FIRE RATING	Upto 2hrs per 1 slab (50mm) thickness, coating applied to external facing sides
SOUND REDUCTION	Reduction in excess of 50db can be achieved
APPLICATION TEMPS	1˚C to 50˚C
SHELF LIFE	N/A
STORAGE TEMP	Avoid frost

ON SITE SUPPORT
A comprehensive design, advice and support service is offered to architects, specifiers and contractors ensuring trouble free installation.

Other products in the Fireus Products range:

FIRE BARRIERS: Total Comfort Rock Fibre Fire Blanket

FIRE STOPPING: Compound
Fire Collars
Barriers
Sealants
Fire Pillows
Expansion Joints
Flamestop60

THERMAL: Industrial thermal and acoustic insulation

For information on any of the above, or the name of your nearest distributor, please contact our sales department on tel. 01524 388898.

Alternatively, product information is available from our web site at **www.fireus.co.uk**

Your distributor:

SAFIRE

FIREUS

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Unit 6 Thetis Road, Lune Industrial Estate, Lancaster, LA1 5QP
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suppliers of passive fire products, acoustic and specialist insulation
manufacturers of the Safire Fire Stopping Range

Safire Coated Batts - Installation Instructions

Installation Instructions for Plasterboard Walls

Openings for services should be formed with the appropriate metal studwork.

On newly created openings in existing walls,cut back to existing vertical studs and frame the opening top and bottom with the flat face of the channel facing out.

Preparation

Place protective sheeting under working area to collect debris and protect the surrounding area if required.

Ensure all surfaces of the area and penetrating services are dry,clean,solid and free of dust,grease and contamination.

Installation

Measure aperture opening and record details for QA/QC requirements.

The pre coated Safire Batt should be cut to produce a frame on the inside of the aperture.

The strips of Safire Batt are then fixed to the aperture using Safire Intumescent Mastic.

The Safire Batt will then be cut to suit aperture size within the lined aperture.

The positions and dimensions on the penetrating services will be carefully marked using a marker pen.

The service details will then be cut using a padsaw or similar,ensuring a tight fit

The coated Safire Batt or cut sections will then be friction fitted into the aperture using Safire Intumescent Mastic to adhere and seal the cut section.

For larger areas where the coating may have been damaged during cutting Safire Multi-coat can be used to make good the Safire Batt.

Seal around penetrating services with Safire Intumescent Mastic.

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Note:

Where the fit is not perfect ie around service penetrations,between the framing and the Batt or between interface of the Batt and studwork,it is recommended that Safire Intumescent Mastic be used to seal any gaps.

Completion

Tidy up all debris

Small cut sections of the Batt may be retained and used as infill pieces on larger or complicated details.

If required any finger markings can be removed using a damp cloth or simply painted over with Safire Multi-coat.

Note:

On plasterboard walls the Safire Batt must be fitted midway in the opening

Further services and modifications to the Safire Batt can be easily accommodated.

Retrofit

Mark area where service is to penetrate the Safire Batt

Carefully cut Safire Batt using a padsaw(or similar)to suit additional services,taking care to ensure a tight fit

Pass service through Safire Batt

Apply Safire Intumescent Matsic to cut edges of the Batt,sealing in new services

Fire Ratings

Up to 2 hours with one layer of Safire Batt 60mm thick
Up to 4 hours with two layers of Safire Batt 60mm thick

Reinforcement

For apertures greater than 1.2m x 1.2m or two Batts side by side some form of reinforcement will be needed to support the Batts and or penetrations

Please contact our technical department for advice on Tel:01524 388898

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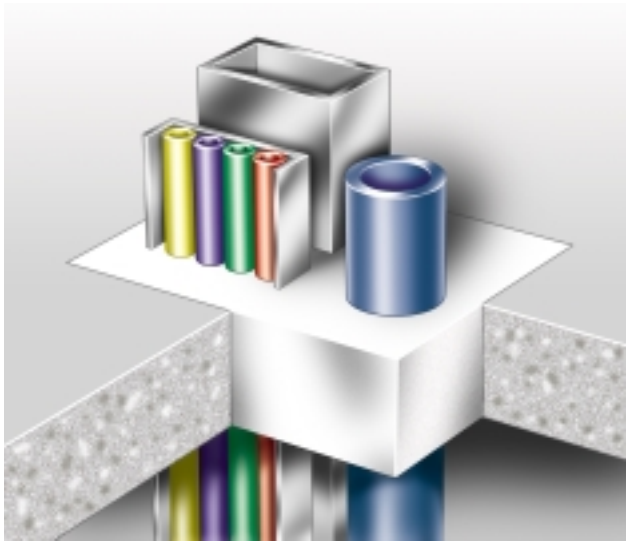
SAFIRE® COMPOUND

Fire Rated Load Bearing Mortar



Fire Rated Load Bearing Mortar system for up to 6 hours protection to compartment floors and walls around service penetrations.

When mixed with water it can be poured or trowelled into service penetration openings, preventing the passage of flame, smoke and toxic gases for up to 6 hours.

- Non-shrinking
- Load Bearing
- High compressive and flexural strength
- Quick Curing
- Tested to BS476 Part 20
- Versatile - easy to modify post-contract
- Lightweight

www.fireus.co.uk
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SAFIRE a brand of Fireus Ltd.

SAFIRE® COMPOUND

Fire rated load bearing mortar

A blend of gypsum and inorganic fillers which when mixed with water can be poured or trowelled around even the most complex service penetrations.

EASE OF APPLICATION

Fireus Compound can be mixed to different consistencies and can be poured or trowelled to provide the most suitable method of installation.

LOADBEARING

Fireus Compound has a very high structural and flexural strength. The blended composition resists shrinkage, cracking or spalling without the requirement of traditional meshing or support.

VERSATILE

Additional services can be easily routed through existing cured compound without the use of powertools and simply reinstated with additional compound.

QUICKCURE

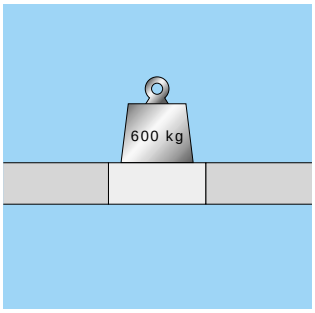
Depending on consistency of mix, Fireus Compound remains workable for approximately 45 minutes. No labour wastage waiting for the product to go off. Also helps coordination of other trade packages essential on fast track programmes.

SAFE TO USE

Fireus Compound has been comprehensively tested including a unique six hour fire test to BS476 pt 20, then subjected to a live load (unsupported) of 600kg and drenched with fire hoses.

CERTIFICATION

Fireus Compound is manufactured in strict accordance with ISO9002 certified quality procedures, Cert.No.9504014
Tested at NAMAS accredited fire testing laboratories to BS476 Parts 20-22 in both vertical and horizontal orientations, Cert.No. WARRES 69679/A, No.60287, No.60288/B



SPECIFICATION TABLE

Spec Code	Fire Rating	Depth of Compound
SC60	1 hour	60mm
SC120	2 hour	80mm *
SC180	3 hour	80mm *
SC240	4 hour	100mm *

* minimum recommended thickness if loadbearing required

TECHNICAL SPECIFICATION

COMPOSITION	A blend of inorganic fillers (powdered form)
APPEARANCE	Off-white powder when mixed with clear water hardens to a white solid compound
DENSITY	approx 950kg/m3
FLEXURAL STRENGTH (cured)	4200kn/m2
COMPRESSIVE STRENGTH (cured)	4200kn/m2
TOXICITY	Non Toxic
HEALTH & SAFETY	Consult H & S Data Sheet
PACKAGING	20kg plastic bags
SHELF LIFE	Upto 24 months if stored dry in unopened condition
USEAGE at a glance:	**approx. 0.021m^3 per 20kg bag 80mm thickness = 3.8 bags 100mm thickness = 4.8 bags**

ON SITE SUPPORT

A comprehensive design, advice and support service is offered to architects, specifiers and contractors ensuring trouble free installation.

Other products in the Fireus Products range:

FIRE BARRIERS: Total Comfort Rock Fibre Fire Blanket

FIRE STOPPING:
Compound
Fire Collars
Barriers
Sealants
Fire Pillows
Expansion Joints
Flamestop60

THERMAL: Industrial thermal and acoustic insulation

For information on any of the above, or the name of your nearest distributor, please contact our sales department on tel. 01524 388898.

Alternatively, product information is available from our web site at **www.fireus.co.uk**

Your distributor:

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suppliers of passive fire products, acoustic and specialist insulation
manufacturers of the Safire Fire Stopping Range

Safire Compound - Installation Instructions

Method Statement: For 30 minutes,1 hour,2 hour,3 hour and 4 hour multiple penetration seals using a property fire rated load bearing system

Materials

Safire Compound
Safire Shuttering Batts is recommended for shuttering ,but timber or other mineral rockfibre may be used

Preparation

Place protective sheeting under working area to collect debris and protect the surrounding area if required

Ensure all surfaces of the aperture are dry,clean,solid and free of dust and contamination

Note!
If all surfaces are straight and smooth it is recommended the sides should be roughed up and cut at an angle to enable a strong key for the compound in the aperture

Horizontal Seals(Load bearing in concrete floors)

Measure and record dimensions of the aperture for QA/QC

Safire Compound is mixed with water to produce a fire resistant mortar

Fix Safire Shuttering Batts to the underside of the aperture,allowing adequate depth above for the specified thickness of Safire Compound

The correct amount of Safire Compound is then mixed by hand or powder mixer

Pour in the Compound to required depth and tamp it down ensuring that there are no gaps left behind penetrations.

Allow the compound to set which will take approximately 2 hours

For Larger areas pour approximately one third on the Compound and allow to harden.This allows the shuttering to take the weight of the additional thickness.Then pour in the remaining Compound to the required depth,

The shuttering may be removed once the Comopund has set hard.

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Penetrations

Any platsic pipes penetrating the seal should be fitted either with a recommended Fire Collar or Intumescent Pipe Wrap

Intumescent Pipe Wraps should be applied around each plastic pipe prior to casting of the Compound to enable them to be embedded in the seal

Fire Collars can be embedded or fixed externally when the Compound has set

Note!

Apertures greater than 1m in both directions require reinforcement(see later details)

For Load-bearing applications the minimum thickness of Safire Compound is 80mm

Vertical

Measure and record dimensions for QA/QC

Fix shuttering to the back face of the aperture,allowing adequate space in front for the specified thickness of the Compound

Mix Compound with water as required

Trowel the Compound onto the face of the shuttering to the required thickness

Ensure that the Safire Compound is put up in one layer

The shuttering may be removed once the Compound has set hard

Note!

For plastic pipe penetrations please see horizontal seals

Completion

Operatives will remove all temporary shuttering materials

Operatives will remove all debris and waste materials

For a tailored finish it is normal practice to align the barrier with one face of the compartment floor or wall

Maintenance

Safire Compound once installed is virtually maintenance free.However annual inspection is recommended to ensure unforseen physical damage which may impair the performance of the seal

Repair and Retrofit

Safire Compound can be easily repaired or further services and modifications can be easily accommodated

Mark area where damage or new service is to be accommodated

Cut out marked section with saw,drill or other woodworking tool

Re-cast section with newly mixed Compound

The modified section will provide the same structural and fire performance as the original seal

Important

Safire Compound has been extensively tested for its compressive and flexural strength.It has also been subjected to a unique fire test including placing a weight of 750 kg onto an unreinforced Safire Compound seal 600mm x 600mm in size after the seal had been subjected to a 6 hour 5 minutes Fire Test

The Safire Compound seal was then subjected to high pressure hosing from above and below without any detrimental effect to the structural integrity of the fire seal which was 70mm thick

Thickness of Safire Compound

For apertures where reinforcement is not required the following specifications apply

Spec. Code	Fire Rating	Depth of Compound	Loadbearing
SC60	1 Hour	60mm	No
SC120	**2 Hours**	**80mm**	**Yes**
SC180	**3 Hours**	**80mm**	**Yes**
Sc240	**4 Hours**	**100mm**	**Yes**

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Unit 6 Thetis Road, Lune Industrial Estate, Lancaster, LA1 5QP
Tel. 01524 388898 Fax. 01524 383724 Email. info@fireus.co.uk Web. www.fireus.co.uk

Where reinforcement is required due to the size of the aperture the recommended thickness of Safire Compound is 100mm.The reinforcement required is detailed below

Reinforcement for Large Apertures

Apertures with one dimension less than 1 metre do not need reinforcement

One way spanning action,liear slabs up to 2 metres use 2 number 50mm 50mm x 1.5mm back to back angle supports at 900mm centres,with a single support angle around the perimeter.

One way spanning action,liear slabs up to 2.5 metres use 2 number 50mm x 50mm x 1.5mm back to back angle supports at 600mm centres,with a single angle support around the perimeter.

For apertures up to 2.8 metres x 2.8 metres use 2 number 50mm x 50mm x 1.5mm back to back angles at 900mm centres across both width and length,with additional angle support around all the perimeter.

For irregular shaped apertures where the maximum dimension does not exceed 2.8mm,grid out the area with 2 number 50mm x 50mm x 1.5mm back to back angles at 900mm centres with additional angle support around the perimeter.

For larger or highly irregular shaped apertures please contact our technical department.

Reinforcement Summary

Aperture Width	Aperture Length	Perimeter Angle	Back to Back Angle
One dimension less than 1 metre		**No**	**None**
Less than 2m	**Single spanning**	**Yes**	**900mm**
2m - 2.5m	**Single spanning**	**Yes**	**600mm**
2m – 2.8m	**2m – 2.8m**	**Yes**	**900mm**
Less than 2.8m	**Less than 2.8m**	**N/A**	**900mm**

Notes:

All angles used are 50mm x 50mm x 1.5mm

M6 Rawbolts are used to fix the perimeter angles to clean aperture adge

The back to back angles are bolted together

Single spanning action means that one dimension can be any length

Further information

Contact the technical department of Fireus Ltd on tel: 01524 388898 for futher information on Safire Compound or other products within the Safire range.

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HEALTH & SAFETY DATA SHEET

SAFIRE COMPOUND

REVISION 1
ISSUE DATE June 2017

Section 1: Identification of the Substance/Mixture and of the Company

1.1 Product identifier:
Safire Compound fire mortar

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Thermal insulation, acoustic insulation and fire protectionin building construction applications.

No uses advised against for physical, health andenvironmental considerations as covered by REACH.

In terms of site use, the product shall be used inaccordance with technical guidance published by FIREUS LTD®.

1.3 Company/undertaking identification:

Fireus Ltd.
6 Thetis Road
Lune Industrial Estate
Lancaster
LA1 5QP
tel: 01524 388898
fax: 01524 383724

Email of competent person responsible for SDS:
info@fireus.co.uk

Emergency Tel.No. (office hours): 01524 388898

Section 2: Hazards Identification

Gypsum plaster (Calcium sulphate hemi-hydrate) perlite and glass fibre.

Section 3: Composition/Information on Ingredients

Not classified as hazardous under the CLP Regulation (EC) No 1272/2008.

Wet premix is alkaline, harmful to skin. High dust levels may cause discomfort to the throat and eyes.

HEALTH & SAFETY DATA SHEET

Section 4: First Aid Measures

Gypsum powder

4.1 Skin contact
If product comes into contact with skin, rinse contaminated area with plenty of water.

4.2 Throat contact
In case of inhalation, move to fresh air and rest.

4.3 Eye contact
If contact with eyes occurs, irrigate with water for at least 15 minutes.

4.4 Ingestion
If the substance is ingested, wash out mouth with plenty of water. Drink plenty of water and seek medical attention immediately. Obtain medical attention if irritation persists.

Section 5: Fire-Fighting Measures

The product is non-combustible and does not pose a fire hazard.

5.1 Suitable extinguishing media:
All standard fire fighting media are suitable.

5.2 Extinguishing media that must not be used for safety reasons:
None

5.3 Combustion products:
None

5.4 Special protective equipment for firefighters:
Observe normal firefighting procedures.

Section 6: Accidental Release Measures

Ventilate area. Wear suitable protective clothing (see Section 8). Spillage should be collected by vacuum, brush and shovel as appropriate. Care should be taken not to raise any excessive dust.

Section 7: Handling and Storage

7.1 Handling
Open bag at mixing point to avoid unnecessary handling.
Wear suitable protective clothing. Keep work areas clean.
Dispose of waste material in suitable containers. Allow wet mix to dry before sweeping or use of vacuum equipment.

HEALTH & SAFETY DATA SHEET

7.2 Storage
Store in a cool, dry, well ventilated place.

Section 8: Exposure Controls/Personal Protection

8.1 Occupational exposure limit (OEL)
Gypsum and Plaster Dust. Do not exceed 10mg/m3 total dust or 5mg/m3 inhalable dust.

8.2 Exposure Limit
Ensure adequate ventilation for airborne dust particles.
Wear suitable gloves and eye goggles. Use a respirator when OEL is likely to be exceeded. Cover skin to avoid skin contact.

Section 9: Physical and Chemical Properties

9.1 Appearance
Off white powder containing coarse and fine particles.

9.2 Solubility
Fully miscible in water.

9.3 pH
Alkaline

9.4 Density (dry):
1000-1100 Kg/m3

Section 10: Stability and Reactivity

10.1 Stability:
Stable

10.2 Reactivity:
With strong acids

10.3 Thermal decomposition products:
None

Section 11: Toxological Information

Safire Compound powder (non-cured) is an irritant to eyes, skin, and respiratory tract.

Section 12: Ecological Information

Stable product with no known adverse environmental effects.

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Section 13: Disposal Considerations

No special precautions.

Section 14: Transport Information

No special precautions.

Section 15: Regulatory Information

Wear suitable protective clothing and mask.
Irritant to skin.
Wet premix is alkaline, harmful to skin.

Section 16: Other Information

Health and Safety Executive Guidance Note EH40 - Occupational Exposure Limits.
The information provided in this safety sheet is correct atthe date of its publication, to the best of our knowledge, information and belief. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process, unless specified in the text. The information contained herein is given in good faith, but no liability will be accepted by the Company in relation to same.

The information is current as of June 2017.

HEALTH & SAFETY DATA SHEET

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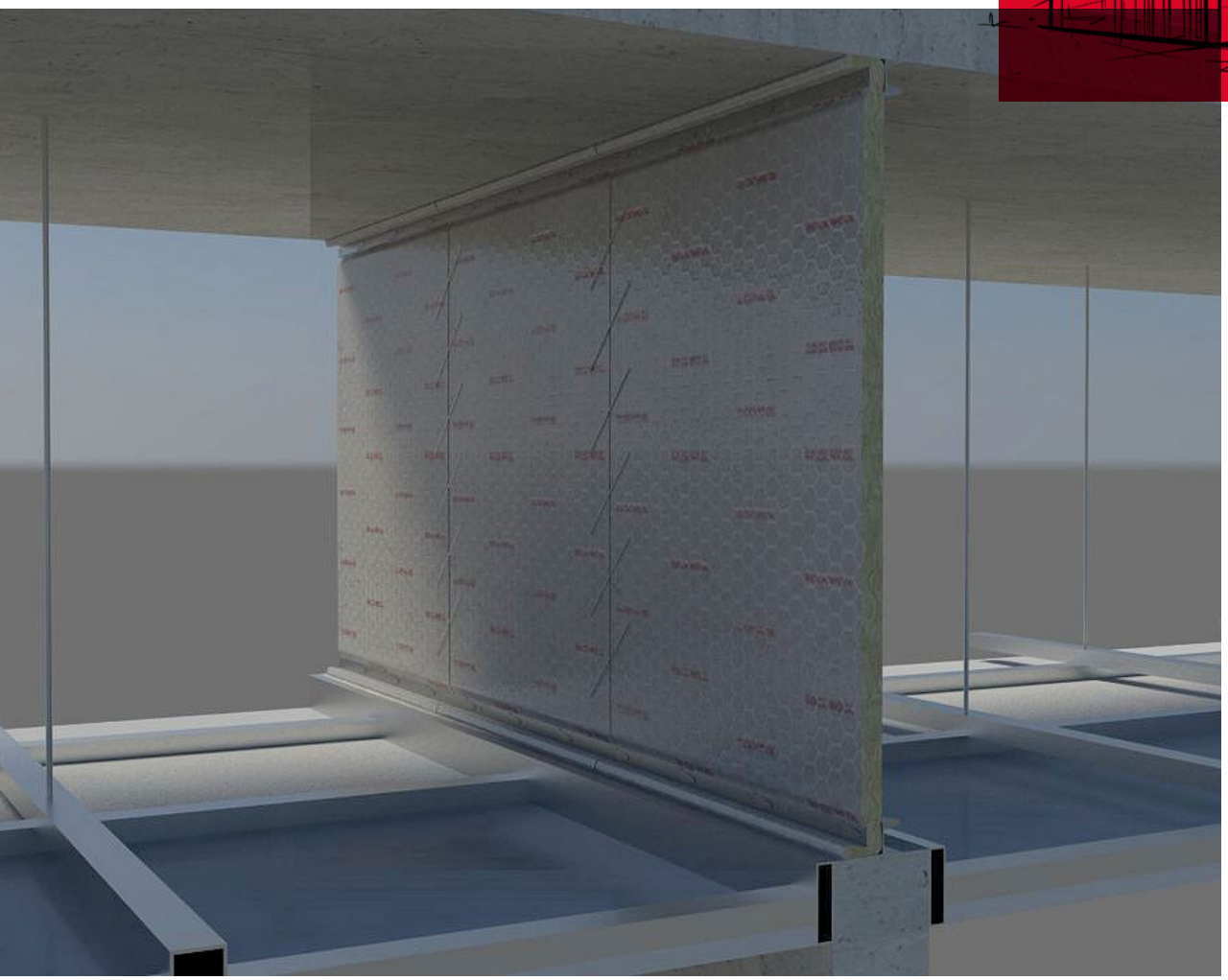
FIRE BARRIER SYSTEM

Preventing the spread of fire and inhibiting the passage of smoke in concealed spaces



ROCKWOOL®

FIRE BARRIER SYSTEM

ROCKWOOL Fire Barrier systems offer labour-saving solutions to prevent the passage of fire and inhibit the spread of smoke within roof and ceiling voids.

This stone wool solution is suitable for void heights of up to 10.5 metres, supported by a stitched wire mesh.

Advantages

- Patented 'quick-fit' system for up to 1 hour fire resistance
- Suitable for void heights up to 10.5 meters
- Provides airborne sound reduction
- Additional strength through wire mesh reinforcement
- Service penetration data available
- Fire resistance of up to 2 hours
- Flexible, accommodates movement

Description

ROCKWOOL Fire Barrier is comprised of stone wool and has a galvanised wire mesh which is stitched to one side. Foil faced options and double sided wire mesh are also available. Fire Barrier systems have been developed to prevent the spread of flames and inhibit heat and smoke through concealed spaces in buildings and improve sound reduction.

Applications

- Pitched roof voids
- Head of wall
- Concealed ceiling spaces
- Multiple substrates
- Fire protection of structural steelwork

Performance

Fire performance

Rating required	Maximum drop without support frame	Maximum drop with additional support frame	Max width	Integrity	Insulation	Install specification	Supporting document
30 min cavity barrier	3m	10.5m	20m	30	15	Single 50mm layer FB, vertical joints butt jointed.	116911
		-		60	15		
30 min fire barrier	6m	N/A	20m	60	30	Single 60mm layer (plain or foil face) with a minimum 100mm overlapped and stitched joints on vertical joints*.	11970
60 min fire barrier	6m	10.5m	20m	60	60	2 layers of 50mm back to back butt jointed with staggered vertical joints between the back to back layers.	116912
90 min fire barrier	3.5m		20m	90	90		51812
120 min fire barrier	3.5m	9m	20m	120	120	2 layers of 60mm (plain or foil face) butt jointed, incorporating a 40mm aircavity between the layers.	44509

N.B. All extensions in drop height must incorporate a minimum 100mm overlap between the sections and stitched with 1.5mm galvanised wire.

**All stitching must be carried out using 0.9mm annealed and galvanised wire. Continuous wire stitching (100mm minimum) or separate lengths of wire secured by twisting ends together. Wire must penetrate through thickness of barrier.*

Acoustic performance

The correct use of Fire Barrier within structural cavities and voids will reduce the level of transmitted sound.

Room to room attenuation	R_w dB
Typical lay-in grid suspended ceiling	30
Ceiling and 50mm ROCKWOOL Fire Barrier	42
Ceiling and 50mm ROCKWOOL Fire Barrier Foil Faced	44
Ceiling and 2x layers of 50mm ROCKWOOL Fire Barrier Foil Faced	50

Where plasterboard ceilings are used, add 2-3dB to above performances.

Note: Values quoted are approximate.

Technical information

Standard and approvals

Fire Barrier Systems have been independently tested and assessed to BS 476: Part 22 by UKAS accredited laboratories.

ROCKWOOL Fire Barrier system achieves a reaction to fire classification of A1 as defined in BS EN 13501:1

They are third party approved for performance and quality by the Loss Prevention Council Certification board (LPCB) and are listed in their Fire and Security 'Red Book' - certificate no. 022c.

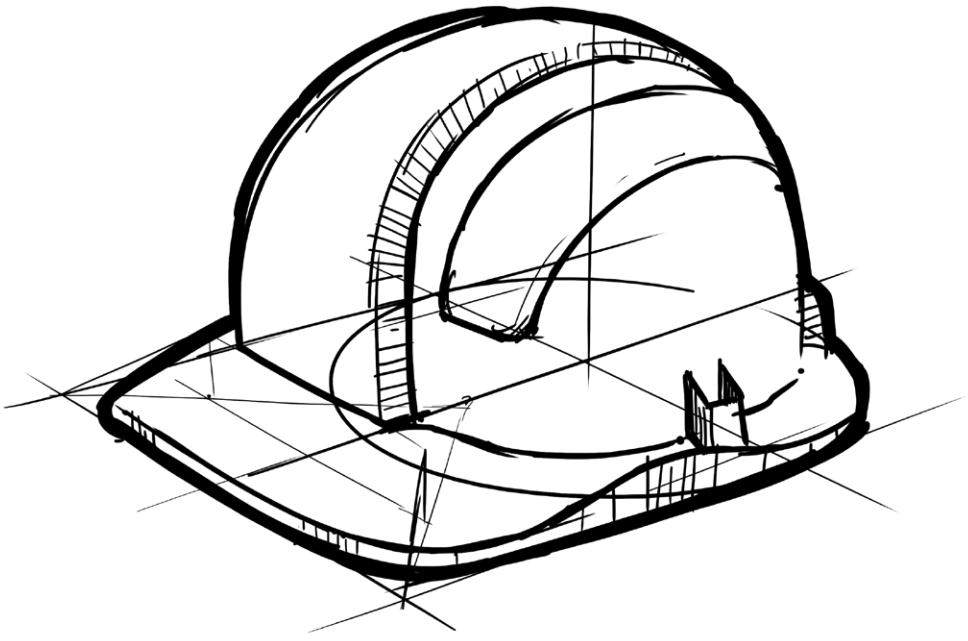
The product has been authorised for use in LUL surface and sub-surface premises when installed in accordance with this data sheet - please refer to the LUL Approved Product Register website www.LU-apr.co.uk for specific details – LUL ref: 2230.

Product information

Thickness	Length	Width
50mm	4000mm	1000mm
60mm	3500mm	1000mm

One or two sided foil face options available.

Wired mesh is available to both sides if required.



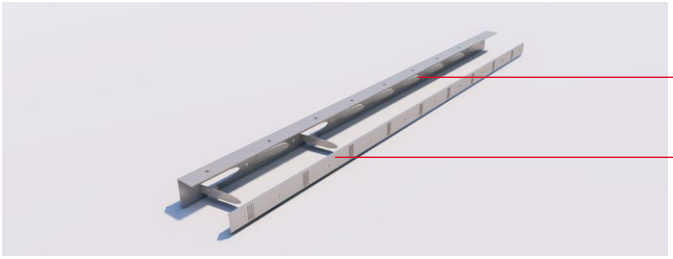
Installation

½ hour cavity barrier

Figures 4-9 show typical details for Fire barrier applied to a timber truss construction as a half hour cavity barrier within the roof section, to satisfy the requirements of building Regulation B3 - (4) i.e. 30 minutes fire integrity and 15 minutes fire insulation.

If the truss is constructed from a minimum timber size of 35 to 49mm thick, both sides of all truss members/bracing require protection from fire in order to minimise charring and retain strength. Figure 6 shows strips of 50mm Fire Barrier used on the reverse side of the truss (for this purpose). Nail plate fixings may fail prematurely in fire unless protected (see Figure 9).

The ROCKWOOL Fire Barrier Fixing System incorporates an angle support and clamping plate



For fixing to timber, the ROCKWOOL clamping plate is used, compressing the barrier to the timber, fixed at 450mm centres using No. 10 woodscrews.

To use the patented ROCKWOOL angle support system, bend tongues out to 90° and impale barrier onto them. The slotted clamping plate is then fitted by pushing the tongues through the slots, these are then bent over the face of the clamping plate completing the process.

Figure 4
Fire Barrier traverse to rafters

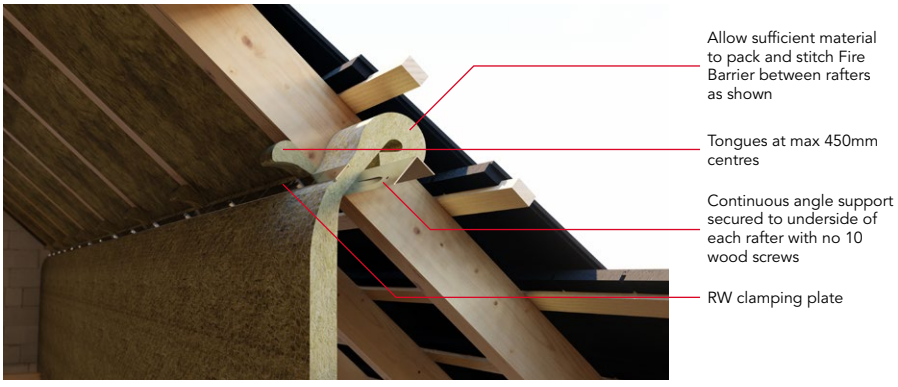


Figure 5
Half hour protection for timber truss construction 50mm thick or more.
Note: nail plate protection required - see Figure 6

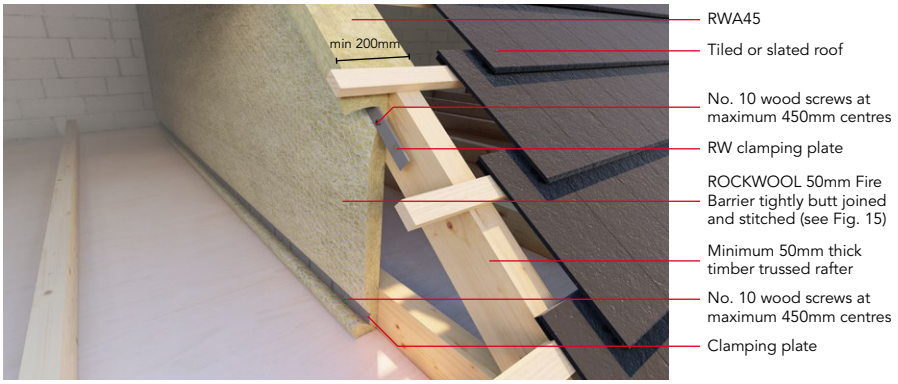


Figure 6
Half hour protection for timber truss construction 35 to 49mm thick.

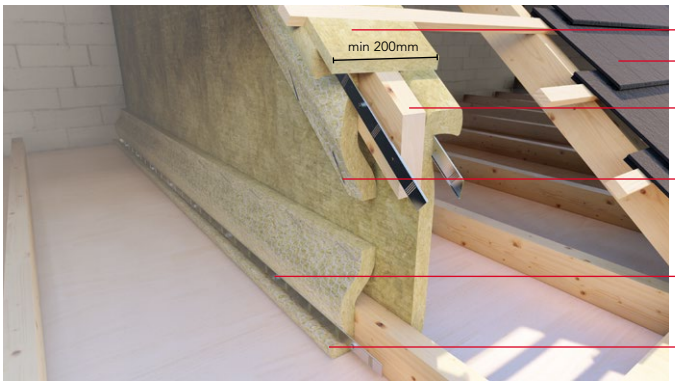


Figure 7
Head of partition

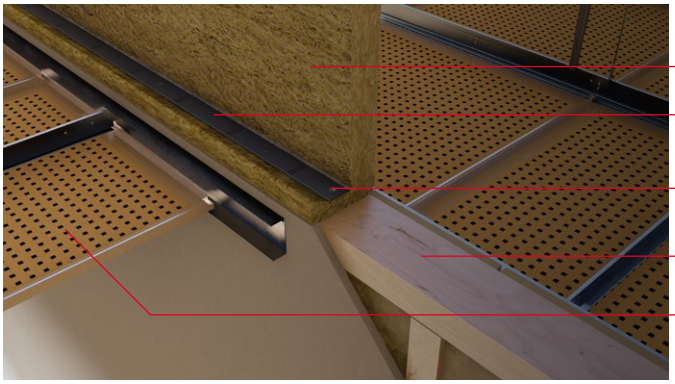


Figure 8
Barrier fitted transversely to timber joisted ceiling

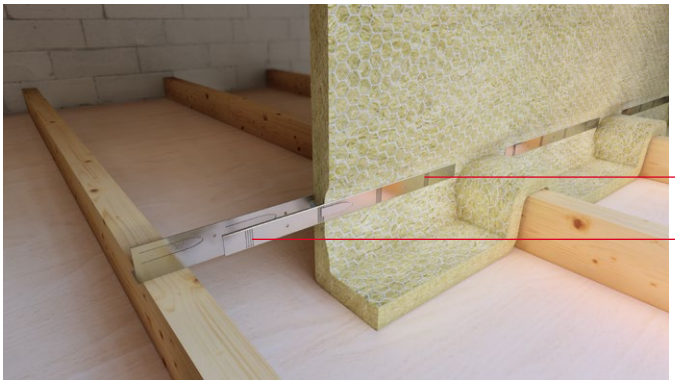
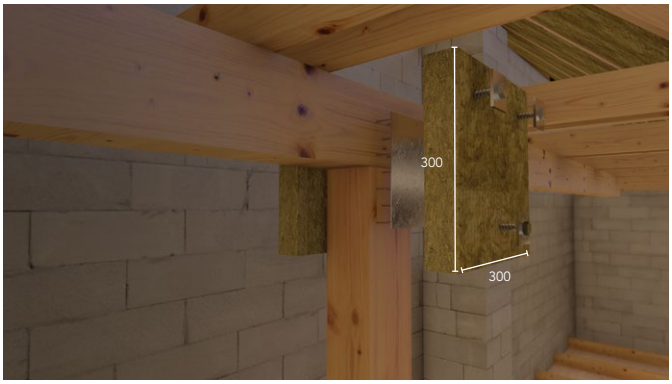


Figure 9
Nail plate protection



25mm thick ROCKWOOL BeamClad® fixed with Firepro Glue and nailed, or 50mm Fire Barrier secured with screws and large square washers. Use 50mm nails for BeamClad® and 70mm screws for Fire Barrier.

For fixing to concrete soffits (Figure 10-12), the pre-punched angle support is fixed using Hilti DBZ or Ejot ECL 35 hammer set anchors at max. 750mm centres. For fixing to steel purlins, use Hilti SMD 02Z (5.5 x 70mm) self-tapping screws at maximum 450mm centre.

Figure 10
50mm Fire Barrier fixed to concrete soffit.

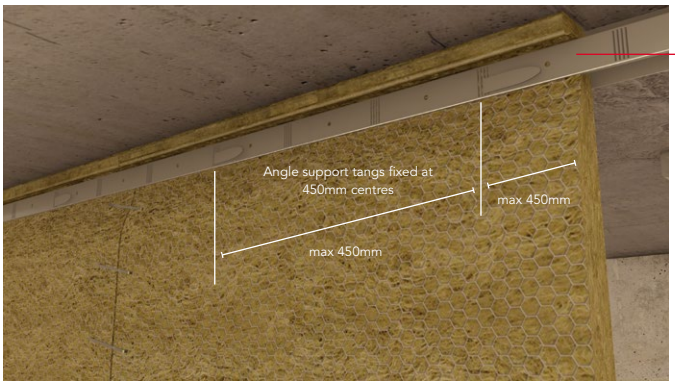


Figure 11
50mm Fire Barrier running across ribbed soffit - Section

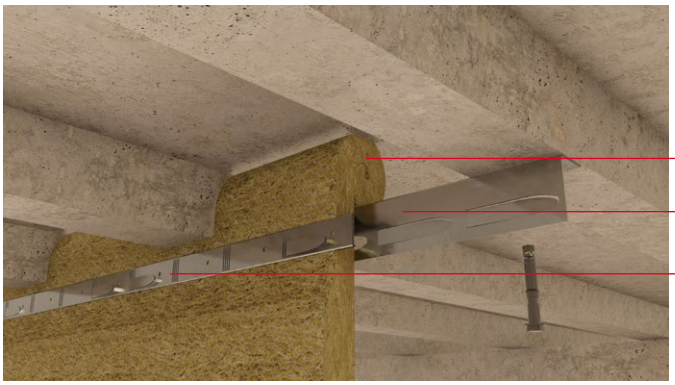
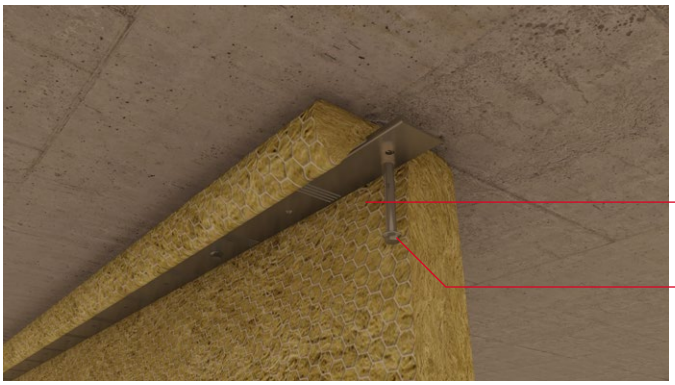


Figure 12
Alternative fixing to flat soffit or perimeter, appropriate to barriers with a shallow drop



60-30 Fire Barrier

If 30 minutes insulation is required, use 1 layer of 60mm plain or foil faced fire barrier with 100mm vertical over lapped joints (Figure 13 & 14). The barrier is otherwise fixed for timber construction as previously shown on Figures 4-9.

Figure 13

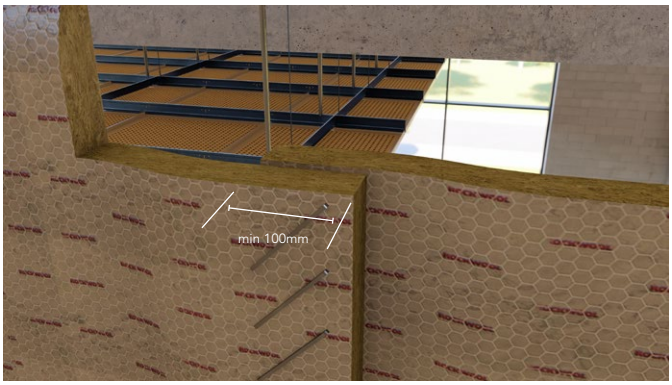
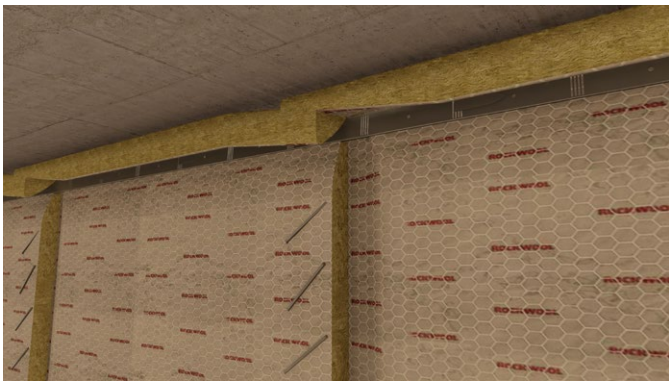


Figure 14



Common Details

Extended drops

ROCKWOOL 50mm Fire barrier single and double layers, can be extended from a 3.5m drop to a maximum 6m drop by fixing an additional 2.5m section, stitched with overlapped joints as per Figure 16. For additional guidance and drops in excess of 6m, please refer to Figure 31 and associated guidance.

Wire stitching of butt joints in ROCKWOOL Fire Barriers

Adjacent barriers must be closely butt jointed, or overlapped, and through stitched with 0.9mm galvanised annealed wire (see Figure 15). It is essential that the barrier provides a good seal at its head, perimeter and at all joints. Where the barrier abuts a profile such as a trapezoidal deck, the material must be cut to suit and secured to fire stop the gap (see Figure 17). For extended drops, 1.5mm diameter galvanised and annealed wire is used (see Figure 16).

Figure 15

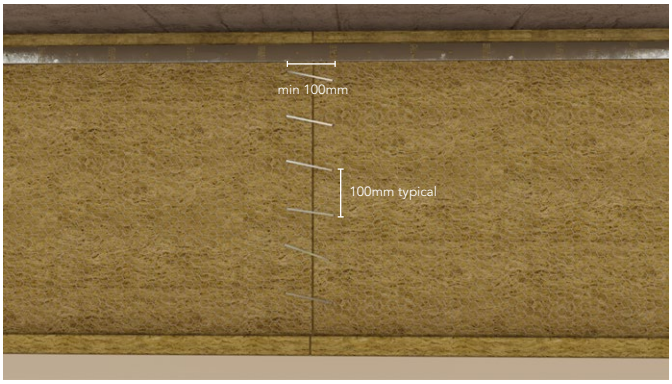
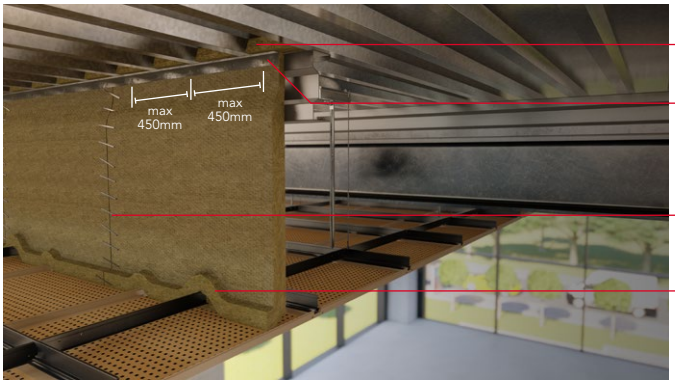


Figure 16

Figure 17



Penetration details

It is regarded as good practice to adequately support or reinforce services penetrating compartment walls and cavity barriers, to prevent displacement. It is recommended that such supports should be no greater than 500mm from each face of the Fire Barrier.

To maintain the integrity of the Fire/Cavity Barrier when penetrated by services with a high melting point (such as steel or copper pipes, beams or trusses) the barrier is first cut locally to accommodate the service or structural member and then re-stitched as neatly as possible. The penetration is then lightly sleeved each side of the barrier to a minimum length of 300mm, using the same barrier material. Each sleeve should be securely stitched to the main barrier to produce a tight seal and prevent future detachment (see Figures 18 and 19). Where access is only available from one side, the double seal solution may be replaced by a single 'collar' detail - please contact our Technical Solutions Team for further advice.

If the penetrating service is manufactured from low melting point materials such as plastic or aluminium, then sleeving should be extended to at least 1000mm either side of the barrier.

This guidance applies to services such as pipes, sheathed cables and conduits, including those carried on steel trays.

For protected steel ductwork with a tested fire resistance performance (stability, integrity and insulation) at least the same as the Fire Barrier, 300mm sleeves should be applied either side of the main barrier, as for high melting point services above.

For information on achieving fire protection to steel ductwork, please refer to the ROCKWOOL Fire Duct System data sheet.

For non-fire protected ductwork, or that with a fire resistance performance less than the barrier, two sleeves should be applied to each side of the barrier, an inner sleeve of 1000mm and an outer sleeve of 300mm. All sleeves should be stitched to the main barrier.

The duct should also include an independently supported fire damper, located in the line of the main barrier. Reference should also be made to Approved Document B of England & Wales Building Regulations - Volume 1, Requirement B3, Section 7 and Volume 2, Requirements B3, Section 10.

Figure 18

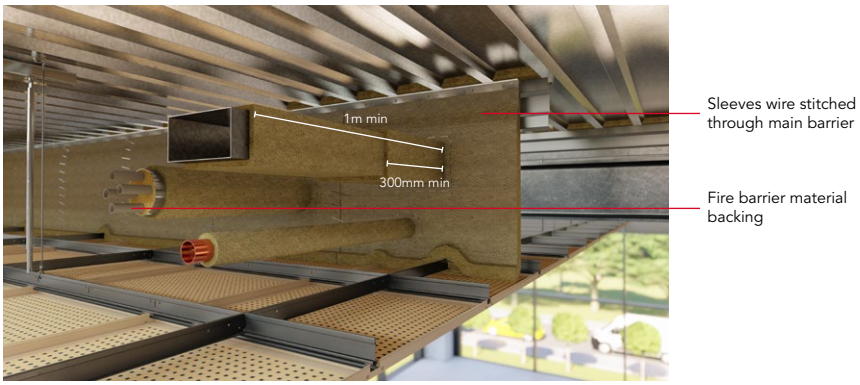
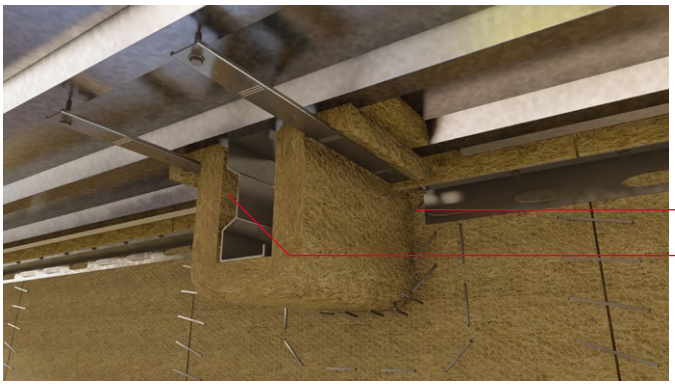


Figure 19



1 Hour Fire Barrier

The unique, patented ROCKWOOL support angle and clamping plate is used to fasten two 50mm Fire Barrier curtains with one support angle without the need for a cavity.

The ROCKWOOL support angle has tongues that are pushed out from opposite sides at 300mm max. centres. The ROCKWOOL Fire Barriers are then impaled on the tongues on both sides and clamped using the ROCKWOOL clamping plates. The tongues are finally bent over the clamping plates, completing the system.

The system uses 50mm Fire Barrier in a double layer with joints staggered. (Please note; wire reinforced sides should be placed outwards).

Figure 20

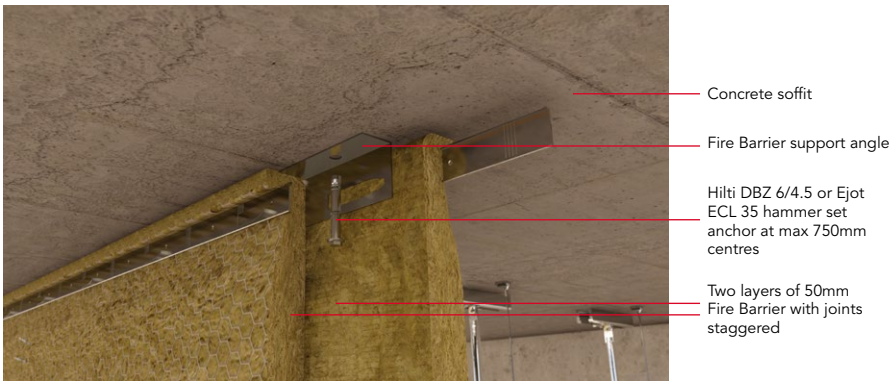


Figure 21

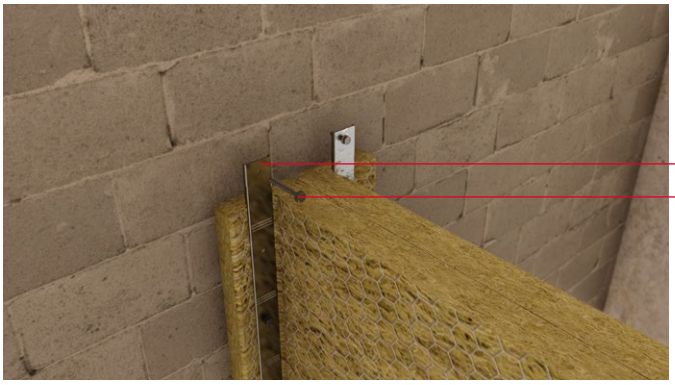


Figure 22

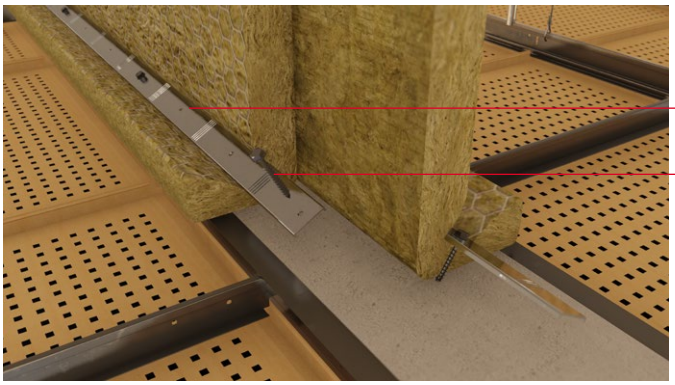
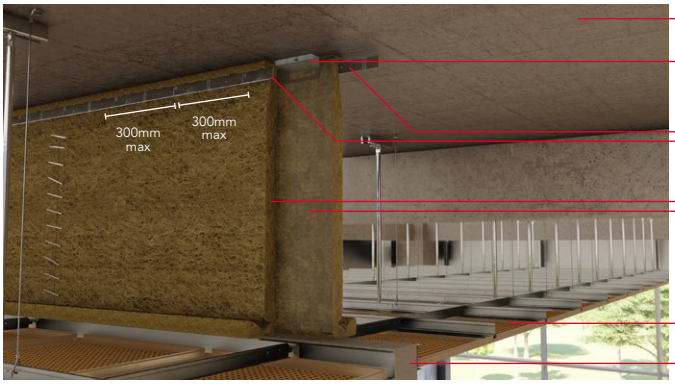


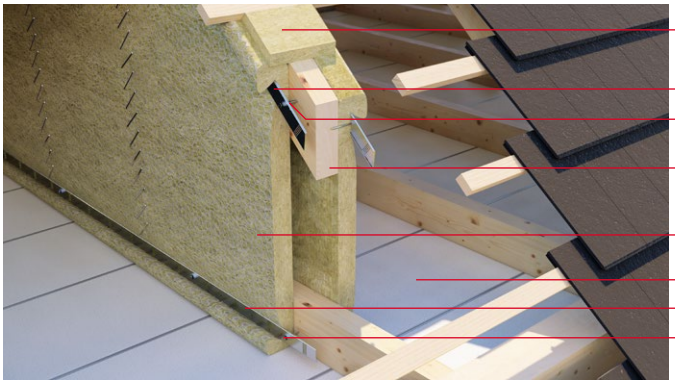
Figure 23



Fixing to timber structure (1 hour)

When a 1 hour Fire Barrier is supported on structural timber (for example a trussed rafter), and the thickness of timber is 35-49mm, one layer of 60mm ROCKWOOL Fire Barrier must be placed on each side of the timber (see Figure 24). Where timber thickness is 50mm or greater, 2 layers of 50mm Fire Barrier are sufficient.

Figure 24



1.5 & 2 Hour Fire Barriers

1.5 hour Fire Barrier

The ROCKWOOL 1.5 hour Fire Barrier system uses 2 layers of 50mm Fire Barrier with staggered joints fixed as Figures 25-27. Please note: Wire reinforced faces should be placed outwards.

Figure 25

Figure 26

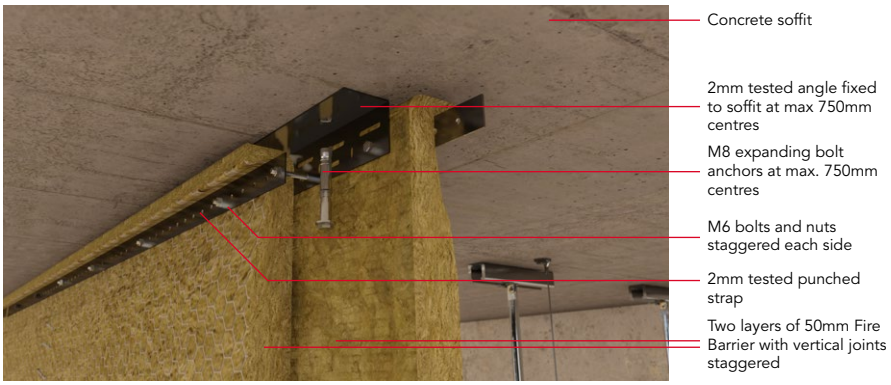
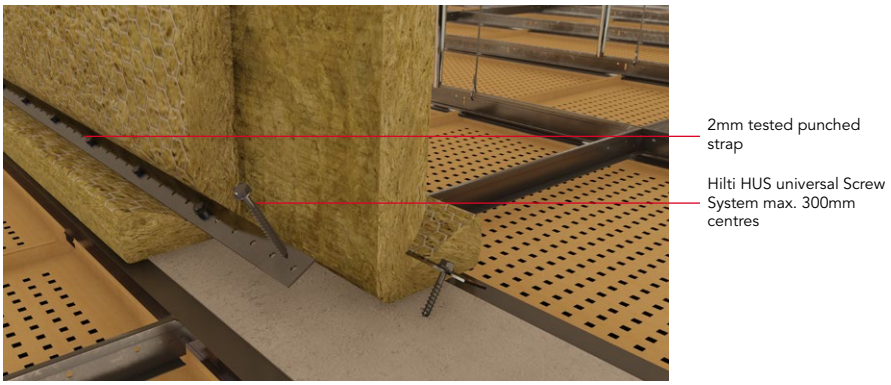


Figure 27



2 hour Fire Barrier

The ROCKWOOL 2-hour Fire Barrier (see Figures 28-30) consists of two layers of 60mm (plain or foil-faced), wire stitched Fire Barrier with staggered vertical joints, separated by a nominal 40mm air space. The base or perimeter to which the barrier is fixed must be capable of remaining in place for 2 hours.

Figure 28

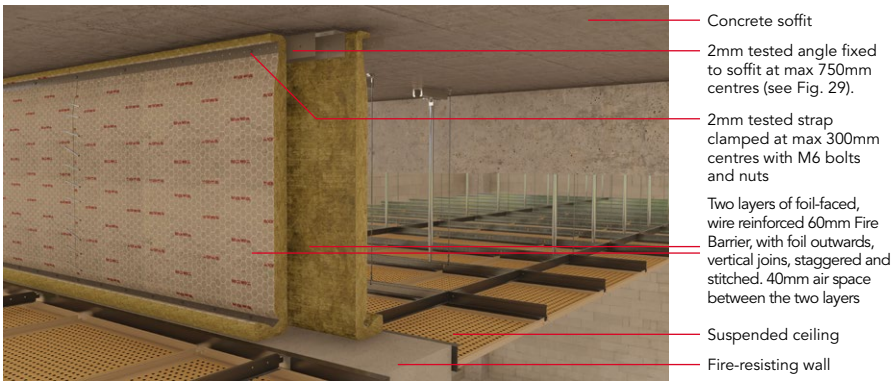


Figure 29

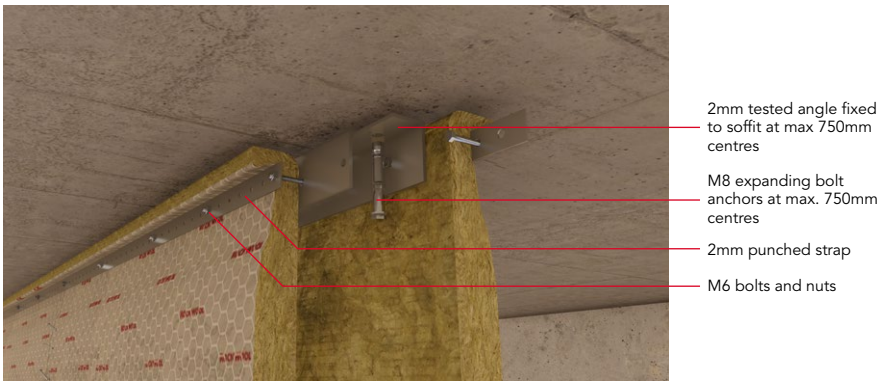
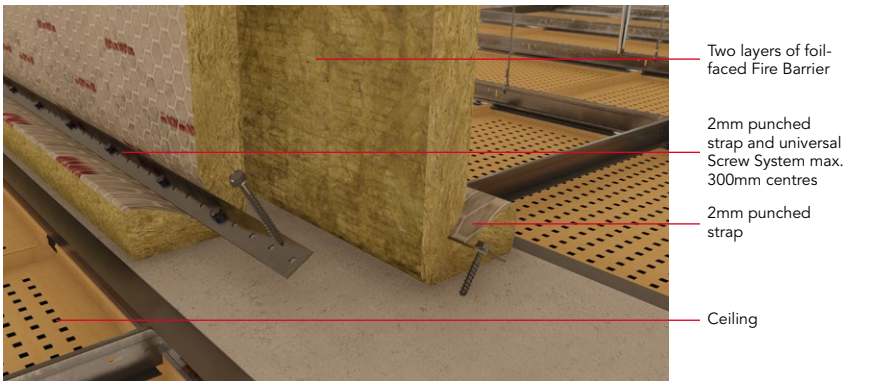


Figure 30



Angle and strap for 1.5% and 2 hour Fire Barriers

The following specification for slotted angles and straps is suitable for supporting ROCKWOOL Fire Barriers for 1.5 and 2 hours when tested to BS 476: Part 22. Slotted angles (62 x 41 x 2mm) and straps (38 x 2mm) manufactured from mild steel conforming to BS 1449: Part 1.1: 1991 and cold reduced to provide a minimum of 0.2% proof stress of 417 Mpa (27 tons/ in^2) and conforming to BS 4345: 1968 (1986) - Specification for slotted angles (inc. flat strap).

Other installation information

General design considerations

A cavity fire barrier must be designed to restrict the passage of both hot smoke and flames for the minimum specified period, as listed in Approved Document B in support of the Building Regulations. In addition, it must be fixed in such a way that:

- It will remain effective in the event of structural movement
- There are no gaps where it abuts other elements of construction
- It complies with the requirements of Approved Document B of the Building Regulations

Extended drops

For periods of up to 60 minutes, ROCKWOOL Fire Barriers can be used for extended void heights between 3.5 and 6m without the need for a supported frame - see Figure 16 for joining barriers with overlap. For periods of up to 90 minutes, this drop height can be increased to 10.5m (9m for 120 minutes), by the use of a simple frame system constructed from slotted angles and straps (see Figure 31).

Further details are available from ROCKWOOL Technical Solutions Team.

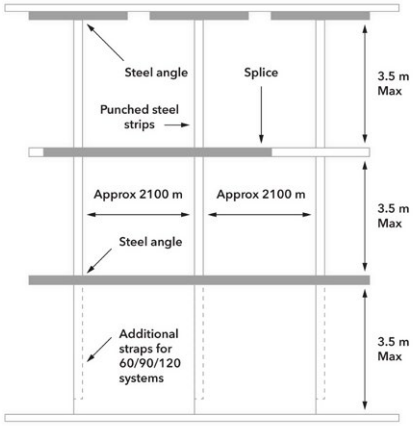


Figure 31

Fire barriers and dampers

Where ROCKWOOL Fire Barriers are installed in conjunction with fire dampers, the dampers must be supported independently of the fire barrier. HVCA or ASFP publications may be helpful.

Access through barriers

Where regular access is required through the barriers for maintenance purposes etc, this should be achieved by the inclusion of an independently supported fire rated door set and frame. The Fire Barriers should be clamped to the door frame with the RW clamping plate and appropriate fixings at 450mm centres.

Ancillaries

ROCKWOOL Ancillaries

ROCKWOOL Fire Barrier support angle and clamping plate are specially manufactured for ROCKWOOL.

Clamping Plate:
3m x 40mm, 10 lengths per pack

Fire Barrier Support Angles:
3m x 34mm x 75mm, 10 lengths per pack

Proprietary fixings

All steel hammer set expansion anchors for soffit fixings are available from Hilti, or Ejot. For perimeter fixings to concrete or masonry, use Hilti HUS Universal Screw system. For fixings to timber, use standard No. 10 steel wood screws 100mm long.

Durability

For durability, we recommend that the finish should be capable of withstanding at least 200 hours salt spray and 400 hours humidity corrosion resistance testing to BS 3990: Part F. Slotted angles and straps conforming to this specification are available from the following suppliers: JB Products Tel: 01384 240234 Link 51 Tel: 01952 682251 Romstor Tel: 01442 242261

If other hardware is used to support the barriers, we recommend that the respective specifier, supplier or installer should be certain that the chosen fixing system has been both tested and approved, for the required period of fire resistance and drop height.

Site advisory service

ROCKWOOL provides a site advisory service by engineers, solely employed to assist with advice when installing ROCKWOOL materials on site. The service is intended for site guidance, but is not intended to be an inspection facility unless agreed under a separately financed contract agreement.

For approval of installed barriers, the installer or building owner will be referred to a suitably accredited and experienced fire assessor or fire safety engineering organisation.

Packaging of Fire Barrier

Shrink wrapped in polyethylene

Handling

ROCKWOOL Fire Barriers are easy to handle. It is easy to cut to any shape. The product should be stored indoors or under a weatherproof covering.

Maintenance

Once installed ROCKWOOL Fire Barriers should need no maintenance. Fire Barriers should be inspected to ensure that they have not been disturbed during maintenance of areas and/or as part of a regular maintenance program.

Specification clauses

ROCKWOOL Fire Barrier System is associated with the following NBS clauses:

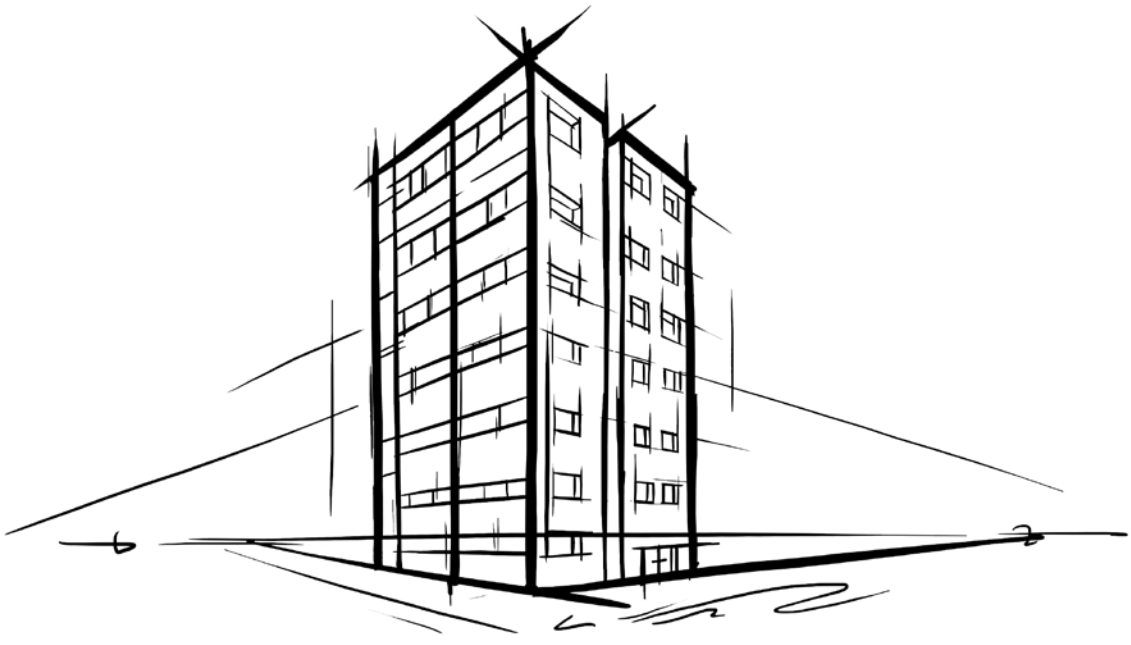
- K10: Gypsum board dry linings/partitions/ceilings
  - 530 – Cavity fire barriers within partitions/wall linings
  - 545 – Cavity fire barriers within suspended ceilings
- K40: Demountable suspended ceilings
  - 287 – cavity barriers
  - 425 – Installing cavity barriers
  - 431 – Installing sound barriers
- P10: Sundry insulation/proofing work
  - 410 – Flexible cavity barriers
  - 430 – Wired mineral wool small cavity barriers
  - 440 – Fire protection

Disclaimers

This product should only be utilised for applications as outlined in the relevant ROCKWOOL product datasheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit www.rockwool.co.uk or contact our Technical Solutions Team on 01656 868490.

Supporting Information

For further information relating to any aspect of the FirePro range, please refer to the applicable ROCKWOOL standard details at www.rockwool.co.uk or contact the ROCKWOOL Technical Solutions Team on 01656 868490 or technical.solutions@rockwool.co.uk.



Sustainability

As an environmentally conscious company, ROCKWOOL promotes the sustainable production and use of insulation and is committed to a continuous process of environmental improvement.

All ROCKWOOL products provide outstanding thermal protection as well as four added benefits:

- **Fire resistance**
- **Acoustic comfort**
- **Sustainable materials**
- **Durability**

Health & Safety

The safety of ROCKWOOL stone wool is confirmed by current UK and Republic of Ireland health & safety regulations and EU directive 97/69/EC:ROCKWOOL fibres are not classified as a possible human carcinogen.

A Material Safety Data Sheet is available and can be downloaded from www.rockwool.co.uk to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

Environment

Made from a renewable and plentiful naturally occuring resource, ROCKWOOL insulation saves fuel costs and energy in use and relies on trapped air for its thermal properties.

ROCKWOOL insulation does not contain (and has never contained) gases that have ozone depletion potential (ODP) or global warming potential (GWP).

ROCKWOOL is approximately 97% recyclable. For waste ROCKWOOL material that may be generated during installation or at end of life, we are happy to discuss the individual requirements of contractors and users considering returning these materials to our factory for recycling.

Interested?

For further information, contact the Technical Solutions Team on 01656 868490 or email technical.solutions@rockwool.co.uk

Visit www.rockwool.co.uk to view our complete range of products and services.

April 2018

ROCKWOOL Limited

Pencoed
Bridgend
CF35 6NY

Tel: 01656 862 621

info@rockwool.co.uk

rockwool.co.uk

HEALTH & SAFETY DATA SHEET

Safire Fire Collars

REVISION 1
ISSUE DATE January 2017

Section 1: Identification of the Substance/Mixture and of the Company

1.1 Product: Safire Fire Collars

1.2 Application: Sealing of gaps around service pipes, expansion joints, fire doors etc.

1.3 Product type: Gap sealant

1.4 Company/undertaking identification:

Fireus Ltd.
6 Thetis Road
Lune Industrial Estate
Lancaster
LA1 5QP
tel: 01524 388898
fax: 01524 383724

Email of competent person responsible for SDS:
info@fireus.co.uk

Emergency Tel.No. (office hours): 01524 388898

Section 2: Hazards Identification

2.1 Classification of the mixture:
2.1.1 Regulation EC 1272/2008

This product is not classified as hazardous according to regulation (EC) 1272/2008 (CLP)

2.2 Label elements:
2.2.1 Regulation EC 1272/2008

Signal word: None
Hazard statement: None

2.3 Other hazards

Section 3: Composition information on ingredients

Ingredient	CAS No.	EC No.	REACH registration No.	Classification According to Reg. (EC) 1278/2008 (CLP)	% W/W
Carbon	12777-87-6	231-955-3	01-2119514421-54-xxxx	Not classified	15 – 25%
Clay cont. <10% respirable silica	N/A	934-756-6 (silica)	Not applicable	STOT RE 2 H373	5 – 10%
2,2,4-trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	229-934-9	01-2119451093-47-0000	H412	<5%

* for full text of hazard statements see section 16

Section 4: First Aid Measures

4.1 General:
In all cases of doubt or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Skin Contact: Wash skin thoroughly with soap and water or a recognised skin cleaner. DO NOT USE SOLVENT OR THINNERS. Seek medical attention if irritation persists.

Eye Contact: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes holding eyelids apart, and seek medical advice.

Ingestion: If accidentally swallowed wash mouth with water and give large volumes of water to drink.
DO NOT induce vomiting. Seek medical attention.

Inhalation: N/A

4.2 Most important symptoms and effects:

Skin contact: Prolonged contact may cause redness, irritation and dry skin.
Eye contact: May cause irritation of the eye.
Ingestion: Possible discomfort.

Section 5: Fire Fighting Measures

The liquid product is 'non-flammable'.

5.1 Extinguishing Media: Foam, CO2, powder, water spray/mist.

5.2 Special Hazards: above 200oC the product rapidly expands

5.3 Advice for firefighters: Do not allow run off from fire fighting to enter drains or water courses.

Section 6: Accidental Release Measures

6.1 Personal precautions and protective equipment:
Avoid skin and eye contact. Wear personnel protective equipment

6.2 Environmental precautions:
Do not allow to enter drains or water courses.

6.3 Method for containment and clean up:
Contain and collect spillages and place in a suitable container for disposal in accordance with the waste regulations (see section 13).

Section 7: Handling and Storage

7.1 Precautions for safe handling:
Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited during use. For personal protection see Section 8.
The Manual Handling Operations Regulations may apply to the handling of containers/packages of this product. In order to calculate the weight of any pack size, multiply the volume in litres by the specific gravity value given in section 9. This will give the net weight of the product in kilograms.

7.2 Precautions for safe storage:
Keep containers closed when not in use.
Observe label precautions
Store between 5oC and 25oC in a dry well-ventilated place away from sources of heat.
Protect from frost.
Keep out of reach of children.
Store separately from oxidising agents and strongly acidic materials.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Substance	Occupational Exposure Limits				Notations
	8 hr LTEL (1)		15 min STEL(2)		
	ppm	mgm-3	ppm	mgm-3	
Respirable Silicaa		0.1			
Carbon graphite		4			
Total dust		10			WEL

(1) Long-term exposure limit - 8 hour time weighted average.
(2) Short-term exposure limit - 15 mins time weighted average.
(S) Occupational Exposure Standard (OES)
(M) Maximum Exposure Limit (MEL)
(WEL) Workplace Exposure Limits ® recommended by supplier

8.2 Exposure Controls

Engineering Measures:
Provide adequate ventilation during application and drying.

Respiratory equipment:
If ventilation is insufficient suitable respiratory protective equipment must be worn.

Skin & Hand protection:
Wear suitable protective clothing and plastic or rubber gloves.

Eye protection:
Eye protection designed to protect against liquid splashes should be worn.

Hygiene measures:
When using do not eat drink or smoke. Wash hands before eating, drinking, smoking or using the toilet.

Section 9: Physical and Chemical Properties

Physical state	viscous paste
Odour	odourless
Flash point	>100oC
Specific gravity	1.5-1.6 @ 20 oC
Solubility	miscible with water.
pH	7.5 – 8.5

Section 10: Stability and Reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under normal temperature and storage conditions

10.3 Possibility of hazardous reactions
None known

10.4 Conditions to avoid
See section 10.3

10.5 Incompatible materials
See section 10.3

10.6 Hazardous decomposition products
Oxides of carbon released under high temperature (>300oC)

Section 11: Toxolgical Information

11.1 Information on Toxicological effects:
There is no evidence of toxicological effects of the product

Ingestion:	May cause discomfort if swallowed. May cause stomach pain
Skin contact:	May be Irritating to skin
Eye contact:	Risk of irritation to eyes.
Sensitisation:	Not sensitising
STOT:	Not classified

Section 12: Ecological Information

12.1 Ecotoxicity

Not regarded as dangerous for the environment.
Not considered toxic to fish

12.2 Persistance and degradeability
The product is not biodegradeable.

12.3 Bio accumulative potential
The product is not bio accumulating

12.4 Mobility in soil
Not mobile

12.5 Results of PBT and vPvB assessment
Not classified as PBT/vPvB

12.6 Other adverse effects
None known

Section 13: Disposal Considerations

13.1 Waste treatment methods

Dispose of this material as special waste in accordance with local or national requirements.

Section 14: Transport Information

This product is not covered by International regulation on the transport of dangerous goods.

14.1	UN number:	Not applicable
14.2	Proper shipping name:	Not applicable
14.3	Transport hazard class:	Not applicable
14.4	Packing group:	Not applicable

Fireus Ltd.
Unit 6 Thetis Road, Lune Industrial Estate, Lancaster, LA1 5QP
Tel. 01524 388898 | Fax. 01524 383724 | Email. info@fireus.co.uk | Web. www.fireus.**co.uk**

14.5	Environmental hazards:	Not classed as Marine pollutant
14.6	Special precautions for users:	Not applicable
14.7	Transport in bulk according to IBC code:	Annex II of MARPOL73/78 and the Not applicable

Proper shipping name:
The product is not classified as dangerous for carriage.

UN number
Hazard class:
Packing group:
Sub-hazard class:

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

Control of Substances Hazardous to Health Regulations 1999
Environment Act 1995
Management of Health and Safety at Work Regulations 1999
Personal Protective Equipment at Work Regulations 1992
Special Waste Regulations 1996 as amended

HEALTH AND SAFETY EXECUTIVE GUIDANCE NOTES

HS(G)37	An Introduction to Local Exhaust Ventilation
EH40	Occupational Exposure Limits
EH44	Dust: General Principles of Protection
HS(G)53	The Selection, Use and Maintenance of Respiratory Protective Equipment
HS(G)71	Storage of Packaged Dangerous Substances
HS(G)193	COSHH Essentials: easy steps to control chemicals
L23	Manual Handling Guidance on Regulations

BRITISH STANDARDS PUBLICATIONS

EN420:	General Requirements for Gloves
EN166:	Personal Eye Protection: Specifications
BS2092:	Eye Protection for Industrial and Non-Industrial Users
BS4275:	Recommendations for the Selection, Use and Maintenance of Respiratory Protective Equipment

15.2 Chemical safety assessment

Section 16: Other Information

Symbols and text of the H phrases in section 2 and 3:

STOT SE 2:	Specific target organ toxicity – single exposure category 2
H373:	May cause damage to lung through prolonged or repeated exposure by inhalation.

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the (EC) Regulation 1272/2008 (CLP). The product should not be used for purposes other than those identified without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application.

FIREUS LIMITED
January 2017

HEALTH & SAFETY DATA SHEET

Fireus Ltd.
Unit 6 Thetis Road, Lune Industrial Estate, Lancaster, LA1 5QP
Tel. 01524 388898 | Fax. 01524 383724 | Email. info@fireus.co.uk | Web. www.fireus.**co.uk**

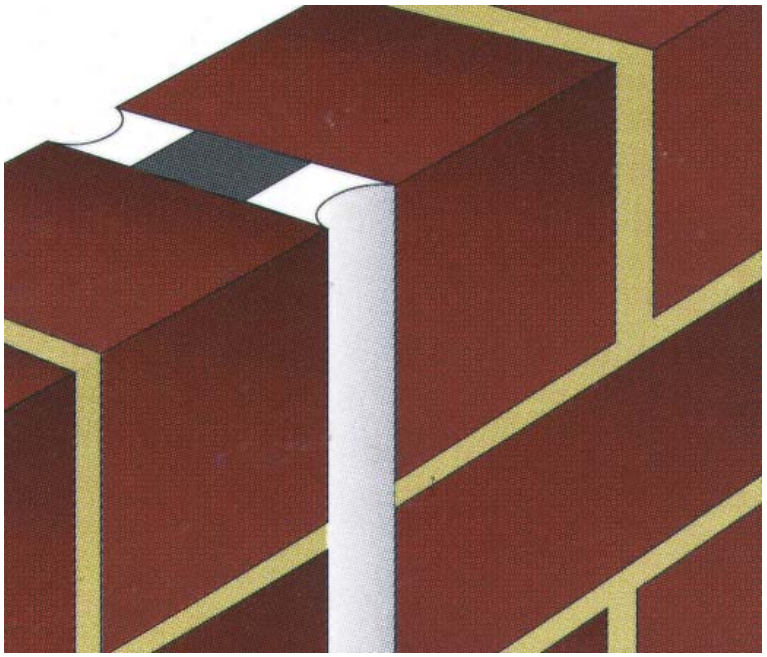
FIREUS

Suppliers of passive fire products,
acoustic and specialist insulation
Manufacturers of the Safire® Fire Stopping Range

Uniclass	EPIC
CI/SfB	

passive fire protection and insulation

Safire® Intumescent and Acoustic Mastic



Safire Intumescent and Acoustic Mastic is a flexible, water-based, cartridge applied acrylic intumescent sealant.

Air curing, it forms a non-hardening flexible seal.
When exposed to fire it will swell to 4 times its original size, creating a char, preventing the passage of fire, smoke and toxic gases for up to 4 hours.

- Flexible water based intumescent acrylic sealant
- Tested to BS476 Part 20/22 - BS/EN 1363-1 & BS/EN 1366-1
- Upto 4 hours fire resistant
- Long term flexibility
- Excellent adhesion

- Available as 310ml cartridge - 600ml foil - 5kg tub

www.fireus.co.uk
01524 388898

SAFIRE a brand of Fireus Ltd.

Safire® Intumescent and Acoustic Mastic

WHERE...

- Expansion/contraction joints, cartridge applied in gaps up to 35mm
- Irregular or uneven gaps around door casings and window sills
- Irregular or uneven gaps around service penetrations
- Sealing fire protection boards and partitioning

WHY SAFIRE...

Flexibility - Safire Intumescent and Acoustic Mastic is non-hardening, so will allow a degree of substrate movement. Resistant to cracking and splitting.

Excellent Adhesion - Safire Mastic is is formulated to give excellent adhesion to most building substrates including brick, concrete, steel and plaster without the use of costly primers.

Water Based - Safire Mastic is virtually odourless, and tools and equipment are easily cleaned without the use of solvents.

Environmentally Friendly - Safire Mastic is Halogen free and contains no fibres, so can be used with confidence.

Smooth Finish - Safire Mastic can be easily tooled to a smooth finish using a wet spatular if required.

INSTALLATION...

Safire Mastic is extruded from a cartridge loaded into a standard skeleton cartridge gun.

1. Ensure all surfaces are sound, clean, dry and free from dust or grease.
2. Use the appropriate backing material to set the depth of the seal. Joint width or depth should be not less than 6mm so that there is sufficient material to give the movement required.
3. Gun in the sealant, taking care to avoid entrapping air or leaving gaps, and ensure there is a complete contact between sealant and substrate.
4. Tool down using a wetted spatular. Store in cool dry conditions.

Available in 5kg tub for brush application

Available as:

- **310ml tube (box x24)**
- **600ml foil**
- **5kg tub**

TESTED TO:

BS/EN 1363-1
BS/EN 1366-1
BS 476 Parts 20/22

TECHNICAL SPECIFICATION

PHYSICAL FORM	Thixotropic paste
COLOUR	White, other colours available to special order
WORKING TIME	25 minutes
SKINOVER TIME	20 minutes
CURE RATE	3mm per day
MOVEMENT	+/- 10%
APPLICATION TEMPS LIMITS	0°C to 70°C
SLUMP	Nil under 30mm joints
SURACE TEMPS LIMITS	0°C to 100°C
PACKAGING	310ml cartridge, 25 per box 600m l foil
SHELF LIFE	9 months if stored at 5°C to 30°C

HOW TO CALCULATE QUANTITY REQUIRED:

$$\frac{\text{Gap width (mm) x Depth (mm) x Total Length (m)}}{\text{310 (or 600 for foil)}}$$

ON SITE SUPPORT

A comprehensive design, advice and support service is offered to architects, specifiers and contractors ensuring trouble free installation.

Your distributor:

SAFIRE

FIREUS

Fireus Ltd.
Unit 6 Thetis Road, Lune Industrial Estate, Lancaster, LA1 5QP
Tel. **01524 388898** | Fax. **01524 383724** | Email. **info@fireus.co.uk** | Web. **www.fireus.co.uk**

SAFIRE INTUMESCENT MASTIC

REVISION 1
ISSUE DATE January 2017

HEALTH & SAFETY DATA SHEET

Section 1: Identification of the Substance/Mixture and of the Company

1.1 Product: Safire Intumescent Mastic

1.2 Application: Sealing of gaps around service pipes, expansion joints, fire doors etc.

1.3 Product type: Gap sealant

1.4 Company/undertaking identification:

Fireus Ltd.
6 Thetis Road
Lune Industrial Estate
Lancaster
LA1 5QP
tel: 01524 388898
fax: 01524 383724

Email of competent person responsible for SDS:
info@fireus.co.uk

Emergency Tel.No. (office hours): 01524 388898

Section 2: Hazards Identification

2.1 Regulation EC 1272/2008
This product is not classified as hazardous according to regulation (EC) 1272/2008 (CLP)

2.2 Label elements

2.2.1 Regulation EC 1272/2008
Signal word: None
Hazard statement: None

2.3 Other hazards None

Section 3: Composition/Information on Ingredients

Ingredient	CAS No.	EC No.	REACH registration No.	Classification According to Reg. (EC) 1278/2008 (CLP)	% W/W
Dipropylene Glycol Dibenzoate	27138-31-4	248-258-5	01-2119529241-49-0002	H412	<1.5%
proprietary blend of esters	Proprietary				4-7%

HEALTH & SAFETY DATA SHEET

Section 4: First Aid Measures

4.1 General: In all cases of doubt or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Skin Contact: Wash skin thoroughly with soap and water or a recognised skin cleaner. DO NOT USE SOLVENT OR THINNERS.

Eye Contact: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes holding eyelids apart, and seek medical advice.

Ingestion: If accidentally swallowed wash mouth with water and give water to drink. DO NOT induce vomiting.

Inhalation: Remove to fresh air.

4.2 Most important symptoms and effects:

Skin contact: No symptoms anticipated

Eye contact: There may be irritation and redness

Ingestion: No symptoms anticipated. If there is any persistence of discomfort seek medical advice

Inhalation: No symptoms

Section 5: Fire-Fighting Measures

The liquid product is 'non-flammable'.

5.1 Extinguishing Media: Recommended: alcohol resistant foam, CO2, powder, water spray/mist.

5.2 Special Hazards: As the products contain combustible organic components, fire will produce
hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters: Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run off from fire fighting to enter drains or water courses.

Section 6: Accidental Release Measures

6.1: Personal precautions and protective equipment: Refer to section 8 of SDS for details.

6.2: Environmental precautions: Do not allow to enter drains or water courses. If the product enters drains or sewers, the local water company should be contacted immediately. In the case of contamination of streams, rivers or lakes, the relevant Environment Agency.

6.3: Method for containment and clean up: Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth, and place in a suitable container for disposal in accordance with the waste regulations (see section 13).

Section 7: Handling and Storage

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8.
The Manual Handling Operations Regulations may apply to the handling of containers/packages of this product. In order to calculate the weight of any pack size, multiply the volume in litres by the specific gravity value given in section 9. This will give the net weight of the product in kilograms.

7.2 Precautions for safe storage: Keep containers closed when not in use. Never use high pressure to empty. The container is not a pressure vessel. Ensure good housekeeping and regular safe removal of waste materials. Observe label precautions - Store between 5oC and 25oC in a dry well-ventilated place away from sources of heat . Protect from frost. Keep out of reach of children. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

Section 8: Exposure Controls/Personal Protection

Engineering Measures: Provide adequate ventilation during application and drying. Where practicable this should be achieved by the use of local exhaust ventilation. If this is not sufficient to maintain concentration of solvent vapours below the relevant Occupational Exposure Limit, suitable respiratory protection must be worn (see 'Occupational Exposure Controls' below).

EXPOSURE LIMITS:

Substance	Occupational Exposure Limits		Notations
	8 hr LTEL (1)	15 min STEL(2)	
	ppm mgm3	ppm mgm3	

(1) Long-term exposure limit - 8 hour time weighted average.
(2) Short-term exposure limit - 15 mins time weighted average.
(S) Occupational Exposure Standard (OES)
(M) Maximum Exposure Limit (MEL)
(R) Recommended by suppliers
(A) Allocated limits by analogy with similar materials
(SK) Risk of absorption through unbroken skin
(Sen) Capable of causing sensitisation by inhalation

OCCUPATIONAL EXPOSURE CONTROLS:
All Personal Protective Equipment (ppe), including Respiratory Protective Equipment (rpe), used to control exposure to hazardous substances must be selected to meetthe requirements of the COSHH regulations.

RESPIRATORY PROTECTION:
If exposure to hazardous substances identified in section 8 cannot be

controlled by the provision of natural ventilation e.g. work in enclosed areas, exposure should be controlled, where reasonably practicable, by the use of mechanical exhaust ventilation; when this is not reasonably practicable, suitable respiratory protective equipment must be worn.

HAND PROTECTION:
When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

EYE PROTECTION:
Eye protection designed to protect against liquid splashes should be worn.

SKIN PROTECTION:
Cotton or cotton/synthetic overalls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a recognised skin cleaner. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

Section 9: Physical and Chemical Properties

physical state	viscous paste	
flash point	>100°C	
viscosity	n/a	
specific gravity	1.60-1.64 @ 20°C	
solubility in water	miscible when wet.	
pH	7.7-8.5	
VOC	3 g/ltr	LEED(2009) VOC 3.5g/ltr

Section 10: Stability and Reactivity

10.1 Reactivity:
No data available
10.2 Chemical stability:
Stable under normal temperature and storage conditions
10.3 Possibility of hazardous reactions:
None known
10.4 Conditions to avoid:
See section 10.3
10.5 Incompatible materials:
See section 10.3
10.6 Hazardous decomposition products:
Oxides of carbon released under high temperature (>300°C)

Section 11: Toxological Information

11.1 Information on Toxicological effects:

There is no evidence of toxicological effects of the product
Ingestion: May cause discomfort if swallowed. May cause stomach pain
Skin contact: May be Irritating to skin
Eye contact: Risk of irritation to eyes.
Sensitisation: Not sensitising
STOT: Not classified

Section 12: Ecological Information

12.1 Ecotoxicity:
Not regarded as dangerous for the environment. Not considered toxic to fish
12.2 Persistance and degradeability:
The product is not biodegradeable.
12.3 Bio accumulative potential:
The product is not bio accumulating
12.4 Mobility in soil:
Not mobile
12.5 Results of PBT and vPvB assessment:
Not classified as PBT/vPvB
12.6 Other adverse effects:
None known

Section 13: Disposal Considerations

Do not allow to enter drains or water courses. Wastes, including emptied containers,are controlled waste and should be disposed of in accordance with regulations made under the 'Control of Pollution Act' and the 'Environmental Protection Act'. Using information provided in this data sheet, advice should be obtained from the relevant Environment Agency whether the Special Waste Regulations apply.

Section 14: Transport Information

Transport within the users premises:
Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Onwards transport subsequent to purchase:
Transport to be in accordance with ADR for road, IMDG for sea and ICAO/IATA for air.

Proper shipping name: The product is not classified as dangerous for carriage.
UN number:
Hazard class:
Packing group:
Sub-hazard class:

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Control of Substances Hazardous to Health Regulations 2002
Environment Act 1995
Management of Health and Safety at Work Regulations 1999
Personal Protective Equipment at Work Regulations 2002
Special Waste Regulations 1996 as amended

HEALTH AND SAFETY EXECUTIVE GUIDANCE NOTES

HS(G)37 An Introduction to Local Exhaust Ventilation
EH40 Occupational Exposure Limits
EH44 Dust: General Principles of Protection
HS(G)53 The Selection, Use and Maintenance of Respiratory Protective Equipment
HS(G)71 Storage of Packaged Dangerous Substances
HS(G)193 COSHH Essentials: easy steps to control chemicals
L23 Manual Handling Guidance on Regulations

BRITISH STANDARDS PUBLICATIONS

EN420: General Requirements for Gloves
EN166: Personal Eye Protection: Specifications
BS2092: Eye Protection for Industrial and Non-Industrial Users
BS4275: Recommendations for the Selection, Use and Maintenance of Respiratory Protective Equipment

15.2 Chemical Safety Assessment

Symbols and text of the H phrases in section 2 and 3:
H412 Harmful to aquatic life with long lasting effects

Section 16: Other INformation

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of EU Regulation 1272/2008 (CLP). The product should not be used for purposes other than those identified without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application.

FIREUS

passive fire protection and insulation

Suppliers of passive fire products,
acoustic and specialist insulation
Manufacturers of the Safire® Fire Stopping Range

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PYROPLEX®

PIPE COLLARS

Fireus Pipe Collars seal closed flammable pipes from 25mm to 400mm diameter and can be face fixed or set-in to a wall or ceiling structure - the most economic long term solution.

- Fire rating up to 4 hours.
- Intumescent is totally unaffected by water.
- Intumescent is robust - 'non-flaking' and difficult to tear.
- Stainless steel case.
- Tab closing - easy to fix in place.
- Identification on each product for full traceability.

www.fireus.co.uk
01524 388898

SAFIRE a brand of Fire-Us Ltd.

PYROPLEX®

PIPE COLLARS

Suitable for fitting to:

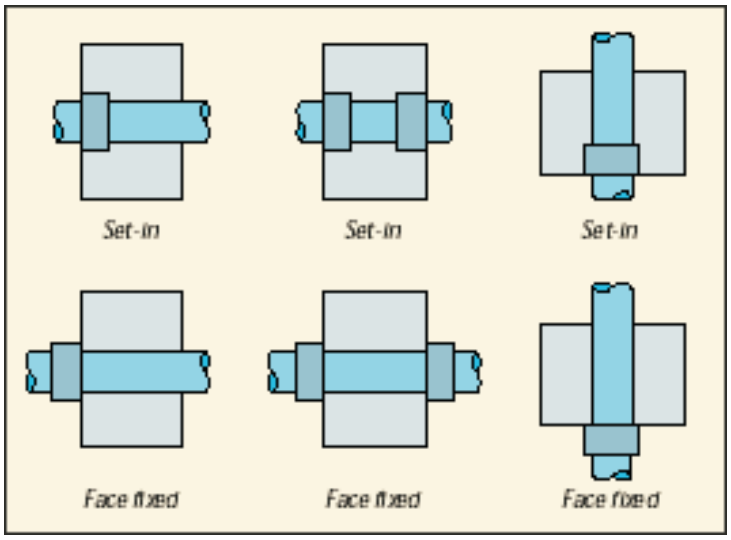
Concrete, masonry, porous concrete and stud wall constructions.

Concrete floor construction - on underside only.

Waste water and fresh water plastic pipes.

Open pipe application details available on request.

Examples of Collar Locations:



Collar sizes:

Part Number	Pipe Outside Diameter (mm)	Diameter over Fixing Holes A (mm)	Collar Outside Diameter B (mm)	Collar Depth C (mm)	Number of Fixing Lugs
PPC25	25	95	38	60	2
PPC32	32	104	41	60	2
PPC40	40	108	52	60	2
PPC48	48	119	59	60	2
PPC55	55	124	74	60	3
PPC68	68	134	84	60	3
PPC82	82	150	100	60	3
PPC110	110	160	134	60	4
PPC125	125	180	148	60	4
PPC135	135	192	158	60	4
PPC160	160	234	200	60	6
PPC200	200	315	255	190	7
PPC250	250	365	305	190	8
PPC315	315	415	345	190	9
PPC350	350	450	390	190	12
PPC400	400	500	440	190	13

Recommendations For Surface Mounting Installation

1. Ensure substrate around pipe is flat and free from obstructions.
2. Release retaining pin and position Pipe Collar around pipe.
3. Slide tab through slot in Pipe Collar and fold back 180° to secure.
4. Secure Pipe Collar by using 50mm x 8mm masonry screws or 50mm minimum expanding metallic bolts. If in doubt refer to supplier.

N.B: Do not use fixings which rely on plastic components for grip.aps 10 Linear Gap Seal 11

Testing

Tested to BS476 Part 20:1987 and other International Standards.
Refer to back cover.

Health and Safety
According to 91/155/EEC Revision No.1.

Important Note
Use Pyroplex® Intumescent Acrylic for residual gaps and penetration face finishing.
Please refer to table for number of fixing lugs.

On-Site Support

A comprehensive design, advice and support service is offered to architects, specifiers and contractors ensuring trouble free installation.

Your distributor:

SAFIRE

FIREUS

Fireus Ltd.
Unit 6 Thetis Road, Lune Industrial Estate, Lancaster, LA1 5QP
Tel. **01524 388898** | Fax. **01524 383724** | Email. **info@fireus.co.uk** | Web. **www.fireus.co.uk**

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passive fire protection and insulation

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acoustic and specialist insulation
Manufacturers of the Safire® Fire Stopping Range

Uniclass	EPIC
CI/SfB	

PYROPLEX®

PIPE WRAPS

Pyroplex® Pipe Wraps seal closed flammable pipes from 55mm to 160mm diameter and are located inside a wall or floor structure.

- Fire rating up to 4 hours.
- Intumescent is totally unaffected by water.
- Intumescent is robust - 'non-flaking' and difficult to tear.
- Identification on each product for full traceability.
- Simple to use - easy to install

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SAFIRE a brand of Fire-Us Ltd.

PYROPLEX®

PIPE WRAPS

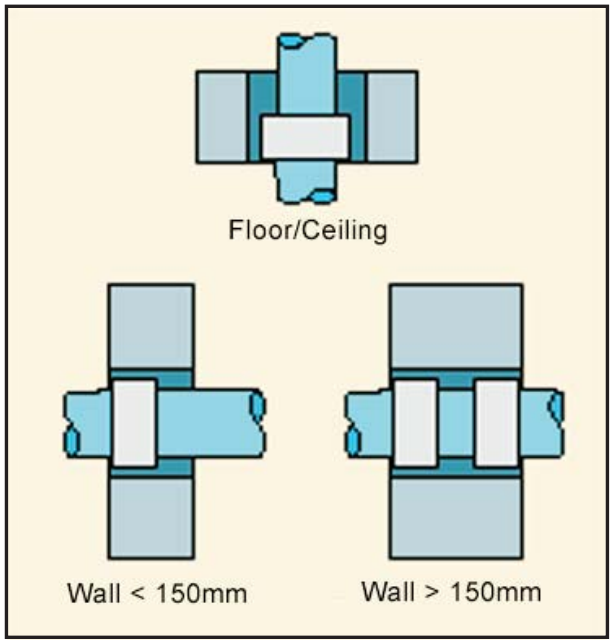
Suitable for fitting to:

Concrete, masonry and porous concrete wall constructions.

Concrete floor construction.

Waste water and fresh water plastic pipes.

Examples of Wraps Locations:



Wraps sizes:

Part Number	Pipe Outside Diameter (mm)	Wrap Length (mm)	Diameter of Hole in Wall or Floor (mm)
PPW 55	55	175	70
PPW 82	82	260	98
PPW 110	110	350	130
PPW 125	125	470	155
PPW 160	160	506	190

Installation Instructions

1. The wall or floor must be of solid construction. The recess hole must be the correct size. See table above.
2. Fix wrap around the pipe using adhesive tab and slide along pipe into wall/floor cavity to a depth of 5mm min./10mm max.
3. After insertion the cavity around the pipe can be made good with filler. The surface can then be decorated.
4. The identification label should be attached to the pipe to show a wrap has been fitted.

Testing

Tested BS476 Part 20:1987 and other International Standards.
Health & Safety
According to 91/155/EEC Revision No.1.

On-Site Support

A comprehensive design, advice and support service is offered to architects, specifiers and contractors ensuring trouble free installation.

Your distributor:

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HEALTH & SAFETY DATA SHEET

Safire Pipe Wraps

REVISION 1
ISSUE DATE January 2017

Section 1: Identification of the Substance/Mixture and of the Company

1.1 Product: Safire Pipe Wraps

1.2 Application: Sealing of gaps around service pipes, expansion joints, fire doors etc.

1.3 Product type: Gap sealant

1.4 Company/undertaking identification:

Fireus Ltd.
6 Thetis Road
Lune Industrial Estate
Lancaster
LA1 5QP
tel: 01524 388898
fax: 01524 383724

Email of competent person responsible for SDS:
info@fireus.co.uk

Emergency Tel.No. (office hours): 01524 388898

Section 2: Hazards Identification

2.1 Classification of the mixture:
2.1.1 Regulation EC 1272/2008

This product is not classified as hazardous according to regulation (EC) 1272/2008 (CLP)

2.2 Label elements:
2.2.1 Regulation EC 1272/2008

Signal word: None
Hazard statement: None

2.3 Other hazards

Section 3: Composition information on ingredients

Ingredient	CAS No.	EC No.	REACH registration No.	Classification According to Reg. (EC) 1278/2008 (CLP)	% W/W
Carbon	12777-87-6	231-955-3	01-2119514421-54-xxxx	Not classified	15 – 25%
Clay cont. <10% respirable silica	N/A	934-756-6 (silica)	Not applicable	STOT RE 2 H373	5 – 10%
2,2,4-trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	229-934-9	01-2119451093-47-0000	H412	<5%

* for full text of hazard statements see section 16

Section 4: First Aid Measures

4.1 General:
In all cases of doubt or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Skin Contact: Wash skin thoroughly with soap and water or a recognised skin cleaner. DO NOT USE SOLVENT OR THINNERS. Seek medical attention if irritation persists.

Eye Contact: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes holding eyelids apart, and seek medical advice.

Ingestion: If accidentally swallowed wash mouth with water and give large volumes of water to drink.
DO NOT induce vomiting. Seek medical attention.

Inhalation: N/A

4.2 Most important symptoms and effects:

Skin contact: Prolonged contact may cause redness, irritation and dry skin.
Eye contact: May cause irritation of the eye.
Ingestion: Possible discomfort.

Section 5: Fire Fighting Measures

The liquid product is 'non-flammable'.

5.1 Extinguishing Media: Foam, CO2, powder, water spray/mist.

5.2 Special Hazards: above 200oC the product rapidly expands

5.3 Advice for firefighters: Do not allow run off from fire fighting to enter drains or water courses.

Section 6: Accidental Release Measures

6.1 Personal precautions and protective equipment:
Avoid skin and eye contact. Wear personnel protective equipment

6.2 Environmental precautions:
Do not allow to enter drains or water courses.

6.3 Method for containment and clean up:
Contain and collect spillages and place in a suitable container for disposal in accordance with the waste regulations (see section 13).

Section 7: Handling and Storage

7.1 Precautions for safe handling:
Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited during use. For personal protection see Section 8.
The Manual Handling Operations Regulations may apply to the handling of containers/packages of this product. In order to calculate the weight of any pack size, multiply the volume in litres by the specific gravity value given in section 9. This will give the net weight of the product in kilograms.

7.2 Precautions for safe storage:
Keep containers closed when not in use.
Observe label precautions
Store between 5oC and 25oC in a dry well-ventilated place away from sources of heat.
Protect from frost.
Keep out of reach of children.
Store separately from oxidising agents and strongly acidic materials.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Substance	Occupational Exposure Limits				Notations
	8 hr LTEL (1)		15 min STEL(2)		
	ppm	mgm-3	ppm	mgm-3	
Respirable Silicaa		0.1			
Carbon graphite		4			
Total dust		10			WEL

(1) Long-term exposure limit - 8 hour time weighted average.
(2) Short-term exposure limit - 15 mins time weighted average.
(S) Occupational Exposure Standard (OES)
(M) Maximum Exposure Limit (MEL)
(WEL) Workplace Exposure Limits ® recommended by supplier

8.2 Exposure Controls

Engineering Measures:
Provide adequate ventilation during application and drying.

Respiratory equipment:
If ventilation is insufficient suitable respiratory protective equipment must be worn.

Skin & Hand protection:
Wear suitable protective clothing and plastic or rubber gloves.

Eye protection:
Eye protection designed to protect against liquid splashes should be worn.

Hygiene measures:
When using do not eat drink or smoke. Wash hands before eating, drinking, smoking or using the toilet.

Section 9: Physical and Chemical Properties

Physical state	viscous paste
Odour	odourless
Flash point	>100oC
Specific gravity	1.5-1.6 @ 20 oC
Solubility	miscible with water.
pH	7.5 – 8.5

Section 10: Stability and Reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under normal temperature and storage conditions

10.3 Possibility of hazardous reactions
None known

10.4 Conditions to avoid
See section 10.3

10.5 Incompatible materials
See section 10.3

10.6 Hazardous decomposition products
Oxides of carbon released under high temperature (>300oC)

Section 11: Toxolgical Information

11.1 Information on Toxicological effects:
There is no evidence of toxicological effects of the product

Ingestion:	May cause discomfort if swallowed. May cause stomach pain
Skin contact:	May be Irritating to skin
Eye contact:	Risk of irritation to eyes.
Sensitisation:	Not sensitising
STOT:	Not classified

Section 12: Ecological Information

12.1 Ecotoxicity

Not regarded as dangerous for the environment.
Not considered toxic to fish

12.2 Persistance and degradeability
The product is not biodegradeable.

12.3 Bio accumulative potential
The product is not bio accumulating

12.4 Mobility in soil
Not mobile

12.5 Results of PBT and vPvB assessment
Not classified as PBT/vPvB

12.6 Other adverse effects
None known

Section 13: Disposal Considerations

13.1 Waste treatment methods

Dispose of this material as special waste in accordance with local or national requirements.

Section 14: Transport Information

This product is not covered by International regulation on the transport of dangerous goods.

14.1	UN number:	Not applicable
14.2	Proper shipping name:	Not applicable
14.3	Transport hazard class:	Not applicable
14.4	Packing group:	Not applicable

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14.5	Environmental hazards:	Not classed as Marine pollutant
14.6	Special precautions for users:	Not applicable
14.7	Transport in bulk according to IBC code:	Annex II of MARPOL73/78 and the Not applicable

Proper shipping name:
The product is not classified as dangerous for carriage.

UN number
Hazard class:
Packing group:
Sub-hazard class:

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

Control of Substances Hazardous to Health Regulations 1999
Environment Act 1995
Management of Health and Safety at Work Regulations 1999
Personal Protective Equipment at Work Regulations 1992
Special Waste Regulations 1996 as amended

HEALTH AND SAFETY EXECUTIVE GUIDANCE NOTES

HS(G)37	An Introduction to Local Exhaust Ventilation
EH40	Occupational Exposure Limits
EH44	Dust: General Principles of Protection
HS(G)53	The Selection, Use and Maintenance of Respiratory Protective Equipment
HS(G)71	Storage of Packaged Dangerous Substances
HS(G)193	COSHH Essentials: easy steps to control chemicals
L23	Manual Handling Guidance on Regulations

BRITISH STANDARDS PUBLICATIONS

EN420:	General Requirements for Gloves
EN166:	Personal Eye Protection: Specifications
BS2092:	Eye Protection for Industrial and Non-Industrial Users
BS4275:	Recommendations for the Selection, Use and Maintenance of Respiratory Protective Equipment

15.2 Chemical safety assessment

Section 16: Other Information

Symbols and text of the H phrases in section 2 and 3:

STOT SE 2:	Specific target organ toxicity – single exposure category 2
H373:	May cause damage to lung through prolonged or repeated exposure by inhalation.

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the (EC) Regulation 1272/2008 (CLP). The product should not be used for purposes other than those identified without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application.

FIREUS LIMITED
January 2017

HEALTH & SAFETY DATA SHEET

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