

Product name	Fire Batt
Product Code	BD-B50
Revision Date	30/01/2016
Revision number	02



**INTRODUCTION**

Fire Batt and Pyrocoustic® Sealant are designed to prevent the passage of fire and smoke between compartment walls and floors built from masonry, composite partition or plasterboard whilst still allowing the installation of services. The product is tested to EN1366-3 and BS476 pt 20/22 giving a fire resistance and smoke barrier for up to 240 minutes.

The Fire Batt has a 1200mm x 600mm x 50mm >140kg/m<sup>3</sup> stone fibre core coated with PS® Coating on both sides or 1 side depending on requirements. At normal temperatures, the Fire Batt installed with Pyrocoustic® Sealant remains flexible to permit thermal and mechanical movement of the services. Both products are unaffected by oil, fungus, moisture and contain no halogens or asbestos.

**COAT BACK OF SERVICES IS NOT REQUIRED**

**The advantages of the Fire Batt and Coating are as follows:**

- Fire Resistant testing to EN 1366-3 EI 60 E 90, BS 476 - 240mins.
- Fire Classification to EN 13501-2.
- Certifire 3rd Party Accreditation CF513.
- IET (IEE) 17th Edition Fire Stop Compliant to Regulation 527.1-3 - Electrical Installations.
- BS 7671-2008 Chapter 42 & 52 - Electrical Installations Fire Resistance.
- Fire resistance tested in flexible walls, rigid walls & floors, composite panel, CLT wall and Durasteel wall.
- Air Permeability testing to EN 1026 to 600Pa.
- Acoustic Isolation testing to EN 10140 up to 60dB.
- Suitable for indoor use without additional environmental protection.
- Remains flexible between -5°C to +70°C.
- Easy to use fibre free sealant.
- Fire Batt standard 50mm thickness gives 4 hours fire and smoke barrier and up to 2 hours insulation.
- Life expectancy of over 25 years.
- Suitable for large openings in walls and floors with additional supports.
- Contributes to Green Building.





**SPECIFICATION**

<b>Dimensions</b>	1200mm x 600mm x 50mm
<b>Stone Fibre Density</b>	> 140Kg/m <sup>3</sup>
<b>Coating Thickness</b>	1mm Nominal, 2.2kg wet film coating
<b>Fire Resistance</b>	4 hours – EN 1366-3; EN 1363-1 EN 13501-2, BS 476 pt 20/22
<b>Insulation (Single Batt)</b>	142 minutes on seal face, EI 60, E 90
<b>Insulation (Double Batts)</b>	264 minutes on seal face
<b>Acoustic Performance</b>	Acoustic Reduction up to 48Rw, 60DnTw(Double 50mm Batt) EN 10140 Acoustic Reduction of 24Rw, 38DnTw (Single 50mm Batt) EN 10140
<b>Air Permeability</b>	600Pa EN 1026 - 100Pa 1.8/1.4 m <sup>3</sup> /h/m <sup>2</sup>
<b>Thermal Conductivity (U Value)</b>	0.034 W/mK at 10°C
<b>Pyrocoustic® Sealant coverage</b>	2.15kg Spread, 2.20kg Spray
<b>Maximum Size of Seal</b>	Wall 5.76m <sup>2</sup> , Floor 2.88m <sup>2</sup>
<b>Maximum Size – Unsupported</b>	2880 x 1440mm (with services) 1200 x 1200mm (no services)
<b>Maximum Size - Plasterboard</b>	2400 x 1200mm
<b>Maximum Size - Unsupported Floor</b>	1600 x 700mm
<b>Mechanical support</b>	30mm x 30mm x 1.6mm steel angle



**INSTALLATION**

Installation details and technical support are available from Blue Diamond technical department or on the internet at [www.bluediamondfireprotection.com](http://www.bluediamondfireprotection.com)

- Use rubber gloves and protection to avoid skin and eye contact.
- Cut Batt to suit the opening.
- Apply PS® Coating or Pyrocoustic® Sealant to cut surface and the mating substrate.
- Assemble batt into the opening in as fewer pieces as possible.
- Fill large voids with off cuts of Batt.
- Apply PS® Coating or Pyrocoustic Sealant from the cartridge/pail to close any visible opening.
- Maintain record of installation.
- Should there be a clear opening (no services) greater than 1200mm x 1200mm a steel support system should be used.

For further information see Installation Manual.





**COMPLIANCE**

Fire Batt, PS® Coating and Pyrocoustic® Sealant are manufactured in the EU, meeting the highest quality standard in compliance with BS EN ISO 9001:2008. For fire test certification contact Blue diamond technical department. CERTIFIRE No. CF513



**STORAGE AND DISPOSAL**

Fire Batt is may not be affected by an outdoor environment. However, for long term storage and ease of installation it is recommended that it should be stored indoors, ideally in dry conditions. Ideal storage temperature between -5°C and +30°C. For health and safety details refer to Blue diamond technical department.



**ENVIRONMENT**

Blue diamond contribute to Green Building by having a manufacturing policy of 100% recycle and 0% landfill for all products. Fire Batt contributes to a Green Building :-

Low VOC (air quality).

No Power Tools required for installation (no energy source required).

Dust free.

Low Ozone Depletion Potential (ODP).

Low Global Warming Potential (GWP).

Smoke and Air Tightness.

Noise Reduction.

Thermal Insulation.

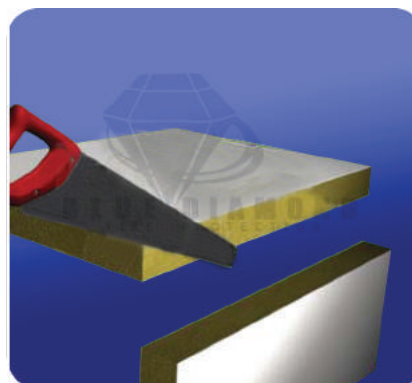
Recycling of Packaging.

Avoidance of Air Filtration.

Core being manufactured in accordance with ISO14001.

The life cycle of Stopseal Fire Batts is over 10 years.





Product name	Batt
Product Code	BD-B50
Revision Date	30/01/2016
Revision number	01

### Section 1: Identification of the substance/mixture and of the company / undertaking



#### 1.1 Product identifier

<b>Product name</b>	Batt
<b>Product Code</b>	BD-B50



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



#### 1.3. Details of the supplier of the safety data sheet

<b>Company Name</b>	Blue Diamond Fire Protection Al Quoz -1, P.O.Box: 25468 Dubai - UAE
<b>Tel</b>	(00971) 4 340 3700
<b>Fax</b>	(00971) 4 340 5122
<b>Email</b>	bluedbc@eim.ae



#### 1.4. Emergency telephone number

### Section 2: Classification of the substance or mixture



#### 2.1. Classification of the substance or mixture

<b>Classification under CHIP</b>	This product has no classification under CHIP
<b>Classification under CLP</b>	This product has no classification under CLP



#### 2.2. Label elements

<b>Label elements</b>	This product has no label elements
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## 2.3. Other hazards

**PBT** | This product is not identified as a PBT substance

## Section 3 Composition/information on ingredients



## 3.2. Mixtures

## Section 4: First aid measures



## 4.1. Description of first aid measures

<b>Skin contact</b>	Wash immediately with plenty of soap and water
<b>Eye contact</b>	Bathe the eye with running water for 15 minutes
<b>Ingestion</b>	Wash out mouth with water
<b>Inhalation</b>	Consult a doctor



## 4.2. Most important symptoms and effects, both acute and delayed

<b>Skin contact</b>	There may be mild irritation at the site of contact
<b>Eye contact</b>	There may be irritation and redness
<b>Ingestion</b>	There may be irritation of the throat
<b>Inhalation</b>	There may be irritation of the throat with a feeling of tightness in the chest
<b>Delayed / immediate effects:</b>	Immediate effects can be expected after short-term exposure.



## 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate/special treatment** | Not applicable

## Section 5: Fire-Fighting measures



## 5.1. Extinguishing media

**Extinguishing Media** | Suitable extinguishing media for the surrounding fire should be used.



## 5.2. Special hazards arising from the substance or mixture

**Exposure hazards** | In combustion emits toxic fumes



## 5.3. Advice for fire-fighters

**Advice for fire-fighters** | Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures



## 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** | Refer to section 8 of SDS for personal protection details.



## 6.2. Environmental precautions

**Environmental** | Do not discharge into drains or rivers.



## 6.3. Methods and materials for containment and cleaning up

**Clean-up procedures** | Wash the spillage site with large amounts of water



## 6.4. Reference to other sections

**Reference to other sections** | Refer to section 8 of SDS

## Section 7: Handling and storage



## 7.1. Precautions for safe handling

**Handling requirements** | Avoid the formation or spread of dust in the air



## 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions** | Store in cool, well ventilated area.



## 7.3. Specific end use(s)

**Specific end use(s)** | No data available

## Section 8: Control parameters



## 8.1. Control parameters

**Workplace exposure limits** | No data available





## 8.1. DNEL/PNEC

<b>DNEL/PNEC</b>	No data available
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## 8.2. Exposure controls

<b>Engineering measures</b>	Ensure there is sufficient ventilation of the area
<b>Respiratory protection</b>	Respiratory protective device with particle filter
<b>Hand protection</b>	Protective gloves
<b>Eye protection</b>	Safety glasses. Ensure eye bath is to hand
<b>Skin protection</b>	Protective clothing

## Section 9: Physical and chemical properties



## 9.1. Information on basic physical and chemical properties

<b>State</b>	Solid
<b>Odour</b>	Odourless



## 9.2. Other information

<b>Other information</b>	No data available
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## Section 10: Stability and reactivity



## 10.1. Reactivity

<b>Reactivity</b>	Stable under recommended transport or storage conditions
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## 10.2. Chemical stability

<b>Chemical stability</b>	Stable under normal conditions
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## 10.3. Possibility of hazardous reactions

<b>Hazardous reactions</b>	Hazardous reactions will occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
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## 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Heat
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**10.5. Incompatible materials**

**Materials to avoid** | Strong oxidising agents. Strong acids

**10.6. Hazardous decomposition products**

**Haz. decomp. products** | In combustion emits toxic fumes

**Section 11: Toxicological information****11.1. Information on toxicological effects**

**Toxicity values** | No data available

**Symptoms/routes of exposure**

**Skin contact** | There may be mild irritation at the site of contact

**Eye contact** | There may be irritation and redness

**Ingestion** | There may be irritation of the throat

**Inhalation** | There may be irritation of the throat with a feeling of tightness in the chest

**Delayed / immediate effects** | Immediate effects can be expected after short-term exposure

**Section 12: Ecological information****12.1. Toxicity**

**Ecotoxicity values** | No data available

**12.2. Persistence and degradability**

**Persistence and degradability** | Biodegradable

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** | No bioaccumulation potential

**12.4. Mobility in soil****12.5. Results of PBT and vPvB assessment**

**PBT identification** | This product is not identified as a PBT substance







## 12.6. Other adverse effects

<b>Other adverse effects</b>	Negligible ecotoxicity
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## Section 13: Disposal considerations



## 13.1. Waste treatment methods

<b>Disposal operations</b>	Transfer to a suitable container and arrange for collection by specialised disposal company
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<b>NB</b>	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal
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## Section 14: Transport information

<b>Transport class</b>	This product does not require a classification for transport
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## Section 15: Regulatory information



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



## 15.2. Chemical Safety Assessment

## Section 16: Other information



## Other information

<b>Other information</b>	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. * indicates text in the SDS which has changed since the last revision.
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<b>Legal disclaimer</b>	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.
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# UL-EU CERTIFICATE

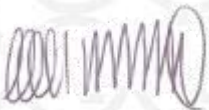
**Certificate No.** UL-EU-00938  
**Page** 1/10  
**Date of Issue** 2016-02-18

**Certificate Holder** Blue Diamond Fire Protection  
P.O. Box 25468  
Dubai  
UAE

**Manufacturer** A/010

**Certified Product Type** Fire Stop – Coated Board  
**Product Trade Name** BD-B50 / BD-B60  
**Trademark** N/A  
**Rating/Classification** See Appendix

**Harmonised Technical Specifications** ETAG 026-2 / EN 13501-2  
**Supporting Documentation** ETA 14/0005, EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE - 1121 – CPR – JA5021  
**Additional information** Additional test evidence is held on file  
**Expiry date** 2026-02-17



**Certification Manager**  
Chris Miles

This is to certify that representative samples of the Certified Product listed above have been investigated by Underwriters Laboratories to the Standard(s) indicated on this Certificate, in accordance with the UL Global Services Agreement and the UL-EU Mark Service Terms and Conditions ("Agreement"). The Certificate Holder is entitled to use the UL-EU Mark for the Certified Product listed on the certificate and manufactured at the production site(s) listed, in accordance with the terms of the Agreement. Only those products bearing the UL-EU Mark for Europe should be considered as being covered by UL's UL-EU Mark Service. This Certificate shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



[www.ul.com](http://www.ul.com)

# Appendix UL-EU CERTIFICATE

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This certificate relates to the use of BD-B50 / BD-B60 for fire stopping where services penetrate floors and walls. The detailed scope is given in pages 3 to 10 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 120 minutes (EI 120).

The product is certificated on the basis of:

- i) ETA 14/0005 EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE 1121 – CPR – JA5021
- ii) Inspection and surveillance of factory production control by UL
- iii) Fire resistance test data in accordance with 1366-3: 2009
- iv) Classification in accordance with EN 13501-2
- v) Durability and Servicability as defined in ETAG 026-2

The durability class of BD-B50 / BD-B60 is Z<sub>1</sub> - intended for use at internal conditions with high humidity, excluding temperatures below 0°C



# Appendix UL-EU CERTIFICATE

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Product-type: Coated board		Intended use: Penetration Seal
Basic requirement for construction work	Basic Requirement	Basic requirement for construction work
<b>BWR 1 Mechanical resistance and stability</b>		
-	None	-
<b>BWR 2 Safety in case of fire</b>		
EN 13501-1	Reaction to fire	Class F
EN 13501-2	Resistance to fire	See page 6
<b>BWR 3 Hygiene, health and environment</b>		
EN 1026:2000	Air permeability (material property)	See page 4
ETAG 026-3, Annex C	Water permeability (material property)	No performance determined
Declaration of manufacturer	Release of dangerous substances	Declaration of manufacturer
<b>BWR 4 Safety in use</b>		
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined
EOTA TR 001:2003	Resistance to impact/movement	No performance determined
EOTA TR 001:2003 ISO 11600	Adhesion	No performance determined
<b>BWR 5 Protection against noise</b>		
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	R <sub>w</sub> (C;C <sub>tr</sub> )= 24(-2;-3) and See page 5
EN 10140-3/ EN ISO 717-2	Impact sound insulation	No performance determined
<b>BWR 6 Energy economy and heat retention</b>		
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572 EN 12086	Water vapour permeability	No performance determined
<b>General aspects relating to fitness for use</b>		
ISO 8339: 2005, ISO 9046: 2004 & ISO 7389: 2003	Durability and serviceability	Z <sub>i</sub>
<b>BWR 7 Sustainable use of natural resources</b>		
-	-	No performance determined

No performance determined



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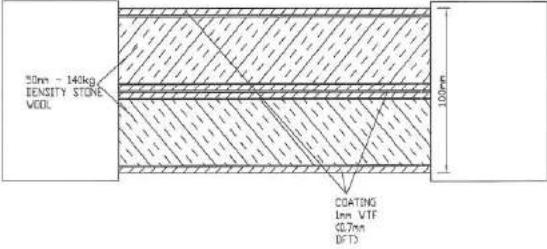
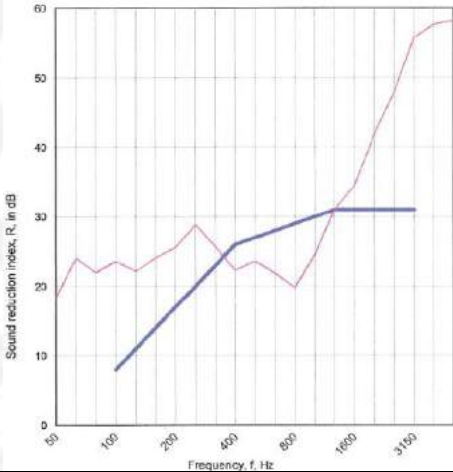
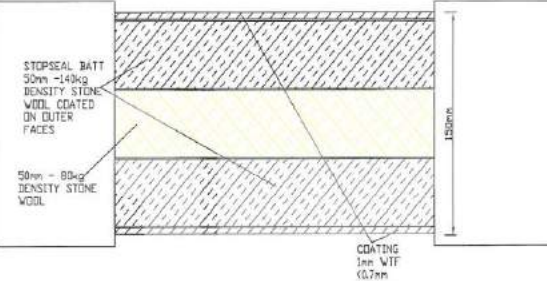
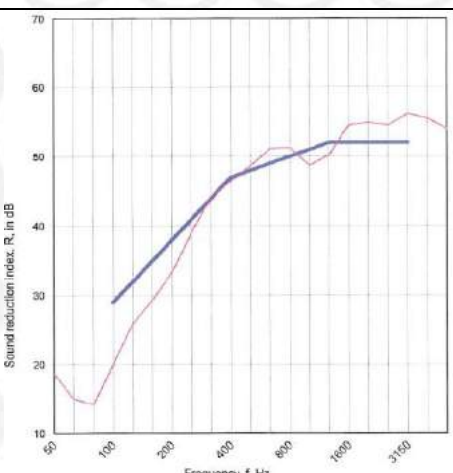
## BD-B50: Air Permeability according to BS EN 1026

Pressure (Pa)	Results under positive chamber pressure		Results under negative chamber pressure	
	Leakage (m <sup>3</sup> /h)	Leakage (m <sup>3</sup> /m <sup>2</sup> /h)	Leakage (m <sup>3</sup> /h)	Leakage (m <sup>3</sup> /m <sup>2</sup> /h)
50	0.6	0.8	1.1	1.5
100	1.0	1.4	1.3	1.8
150	2.8	3.9	1.5	2.1
200	3.8	5.3	1.9	2.6
250	4.5	6.3	2.0	2.8
300	5.0	6.9	2.4	3.3
450	5.1	7.1	1.9	2.6
600	6.7	9.3	2.2	3.1



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BD-B50 / BD-B60: Acoustic performance according to BS EN ISO 10140-2:2010		
Configuration	$R_w(C; C_{tr})$ Specimen only, 1m <sup>2</sup>	$D_{new}$ Partition & Specimen, 14.2m <sup>2</sup>
	<p>27 (0; -2)</p> 	37 (0; -2)
	<p>48 (-3; 16)</p> 	58 (-3; 16)



# Appendix UL-EU CERTIFICATE

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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation**	Fire Resistance (mins.)	
							E	EI
Drywall/ Masonry/ Concrete wall	100	1200 high x 730 wide	Central	100*	15 mm deep by 15 mm wide annulus BD-IG2 Sealant to both faces of the batt seal	Steel or Copper pipe 40 mm diameter and 1.5 – 14.2 mm wall thickness / 20 mm thick foil faced glass wool insulation (min 80 kg/m <sup>3</sup> )	90	60
						Steel or Copper pipe 40 - 159 mm diameter and 2.3 – 14.2 mm wall thickness / 30 mm thick foil faced glass wool insulation (min 80 kg/m <sup>3</sup> )	60	60
						Steel pipe 40 mm diameter and 1.5 – 14.2 mm wall thickness / 20 mm thick foil faced glass wool insulation (min 80 kg/m <sup>3</sup> )	90	60
						Steel pipe 40 - 159 mm diameter and 2.3 – 14.2 mm wall thickness / 30 mm thick foil faced glass wool insulation (min 80 kg/m <sup>3</sup> )	60	60
					None	Electrical cables up to 21 mm diameter	60	60
						Electrical cables 22-80 mm diameter	60	45
						Steel cable trays and ladders	60	60
						Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter	60	60
						Unsheathed electrical cables up to 17 mm diameter	60	30
						Unsheathed electrical cables 18-24 mm diameter	60	15
						Steel or Copper conduits up to 16 mm diameter	60	15
						Plastic conduits up to 16 mm diameter	60	60

\* Two layers of 50 mm batt

\*\* Continuous through seal and full length of the pipe



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation	Fire Resistance (mins.)	
							E	EI
Masonry/ Concrete Wall	150	1200 high x 730 wide	Central	100*	None	Electrical cables up to 21 mm diameter insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m <sup>3</sup>	120	120
						Electrical cables 22-80 mm diameter insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m <sup>3</sup>	120	90
						Steel cable trays and ladders insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m <sup>3</sup>	120	120
						Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m <sup>3</sup>	120	120
						Unsheathed electrical cables up to 24 mm diameter insulated with FSi P40/40 stone wool insulation** 40 mm thick, 40 kg/m <sup>3</sup>	120	120
	600 high x 600 wide	Central	50	Any position within wall thickness	None	Steel or Copper pipe 108 mm diameter and 1.5 – 14.2 mm wall thickness / 40 mm thick stone wool insulation (min 140 kg/m <sup>3</sup> ***)	60	45
						Electrical cables up to 80 mm diameter insulated with 6 mm thick FSi Thermal Defense Wrap min. 300 mm long	60	60
						Steel cable trays and ladders insulated with 6 mm thick FSi Thermal Defense Wrap min. 300 mm long	60	60
						Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with 6 mm thick FSi Thermal Defense Wrap min. 300 mm long	60	60
						Unsheathed electrical cables up to 24 mm diameter insulated with 6 mm thick FSi Thermal Defense Wrap min. 300 mm long	60	60

\* Two layers of 50 mm batt

\*\* Interrupted at the seal and extending 200 mm from both faces of the seal

\*\*\* Interrupted at the seal and full length of the pipe





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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation**	Fire Resistance (mins.)	
							E	EI
Masonry/ Concrete Wall	150	1200 high x 730 wide	Flush to both faces of wall	150*	None	Electrical cables up to 21 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	120	120
						Electrical cables 22-80 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	120	90
						Steel cable trays and ladders insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	120	120
						Telecommunication cables up to 21 mm diameter and in a bundle of up to 100 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	120	120
						Unsheathed electrical cables up to 24 mm diameter insulated with FSi P40/40 stone wool insulation 40 mm thick, 40 kg/m <sup>3</sup>	120	120

\* Two layers of 60 mm batt separate by minimum 30 mm

\*\* Interrupted at the seal and extending 200 mm from both faces of the seal



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Substrate	Minimum Substrate Thickness (mm)	Maximum Seal Size (mm)	Seal Position	Minimum Seal Depth (mm)	Incorporated seal	Service / Insulation	Fire Resistance (mins.)	
							E	EI
Concrete Floor	150	1600 x 700	Flush to top of floor	50	None	None	60	60



# Appendix UL-EU Certificate

<b>Certification Mark</b>	<b>UL-EU mark</b>
<b>Certificate No.</b>	UL-EU-00938
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The UL-EU Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.



The minimum height of the registered trademark symbol ® shall be 1 mm. When the overall diameter of the UL-EU Mark is less than 9.5 mm, the trademark symbol may be omitted if it is not legible to the naked eye.

The UL-EU Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Certificate Manufacturer's name or trademark and model number shall also appear elsewhere on the product.

All content shall be in accordance with the details provided on this UL-EU Certificate.

## PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at [www.ul.com](http://www.ul.com).

