UL-EU CERTIFICATE

Certificate No.
UL-EU-00708-EN

Issue date
11-02-2015

Issue No.
2

Re-Issue date
28-08-2025

Expiry date
27-08-2035

Certificate Holder:
Neutron Fire Technologies Limited

Address:
Broomfield Industrial Estate,
Broomfield Road,
Montrose
DD10 8SY

Product:
Firebreak 33

Places of production:
A/001

Standard:
EAD 350454-00-1104, September 2017 / EAD 350141-00-1106, September 2017 / EN 13501-2

Authorised Signatory:

Chris Johnson
Issued by UL International (UK) Ltd

UKAS PRODUCT CERTIFICATION
4705

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.

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This certificate relates to the use of Firebreak 33 Silicone Sealant for fire stopping where there are joints in or between walls & floors or service penetrations through floors and walls. The detailed scope is given in pages 3 to 14 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 240 minutes for differing services and wall/floor constructions.

The product is certificated on the basis of:

i) 0843-UKTA-24/0005
ii) 0843-UKTA-24/0015
iii) UK – CERTIFICATE OF CONSTANCY OF PERFORMANCE 0843 – CPR – 1355
iv) Inspection and surveillance of factory production control by UL
v) Fire resistance test data in accordance with EN 1366-3: 2009 and EN 1366-4: 2006
vi) Classification in accordance with EN 13501-2
vii) Durability and Serviceability as defined in EAD 350141-00-1106, September 2017*

* Firebreak 33 sealant has been tested in accordance with BS EN ISO 8339: 2005 and BS EN ISO 9046: 2004 to demonstrate its suitability for use in conditions exposed to weathering and in the temperature range -20°C to 70°C. Also suitable for internal conditions. These conditions are designated X, Y_1, Y_2, Z_1 & Z_2 in EAD 350454-00-1104, September 2017 and EAD 350141-00-1106, September 2017.

The movement capability of Firebreak 33 joint seals is restricted to ≤ 7.5%

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Product-type: Sealant		Intended use: Penetration Seal & Linear Joint & Gap Seal
Assessment method	Essential characteristic	Product Performance
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	No performance determined
EN 13501-2	Resistance to fire	See pages 4 to 14
BWR 3 Hygiene, health and environment		
Declaration of manufacturer & EN 16516	Content, emission and/or release of dangerous substances	Use categories: IA1, S/W2 Declaration of manufacturer
EN 1026:2000	Air permeability (material property)	No performance determined
EAD 350141-00-1106, Annex C & EN 12390-8	Water permeability (material property)	No performance determined
BWR 4 Safety in use		
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 & EAD 350141-00-1106, Clause 2.2.13	Adhesion	No performance determined
EAD 350454-00-1104, Clause 2.2.9	Durability	X
EAD 350141-00-1106, Clause 2.2.13	Movement capacity	No performance determined
EAD 350141-00-1106, Clause 2.2.14	Cycling of perimeter seals for curtain walls	No performance determined
EAD 350141-00-1106, Clause 2.2.15	Compression set	No performance determined
EAD 350141-00-1106, Clause 2.2.16	Linear expansion on setting	No performance determined
BWR 5 Protection against noise		
EN 10140-1,2,4,5/ EN ISO 717-1	Airborne sound insulation	No performance determined
BWR 6 Energy economy and heat retention		
EN 12664, EN 12667, EN 12939, EN ISO 8990, EN ISO 6946, EN ISO 14683, EN ISO 10211, EN ISO 10456	Thermal properties	No performance determined
EN ISO 12572, EN 12086, EN ISO 10456	Water vapour permeability	No performance determined

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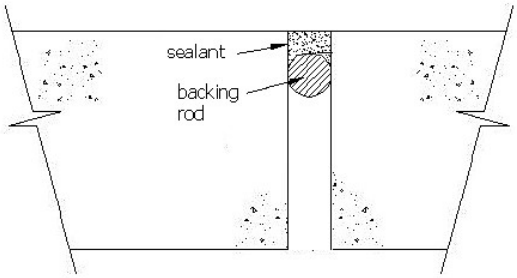
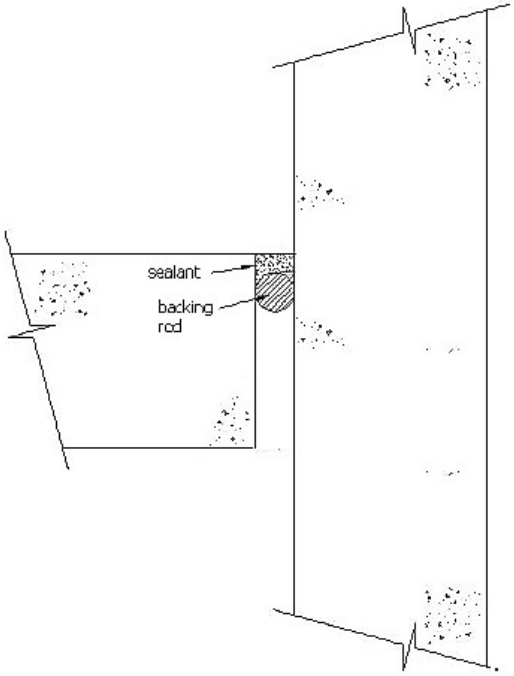
Appendix UL-EU CERTIFICATE UL-EU-00708-EN

Linear Joint and Gap Seals

Rigid wall constructions with wall thickness of minimum 150 mm

Linear Joint or Gap Seal: Vertically oriented with sealant to the one face (either)	
Construction details:  	

Firebreak 33 Linear Joint Seals in Rigid Walls 150 mm thick (min.) – Sealant on One Side of the Seal Only (Either)			
Substrate	**Depth (mm)**	**Backing**	**Classification**
Masonry/concrete	10 min.	10 mm depth Polyethylene rod or stone mineral wool	**E 240 – V – X – F – W 00 to 15** **EI 180 – V – X – F – W 00 to 15**
	15 min.		**E 240 – V – X – F – W 00 to 25** **EI 120 – V – X – F – W 00 to 25**

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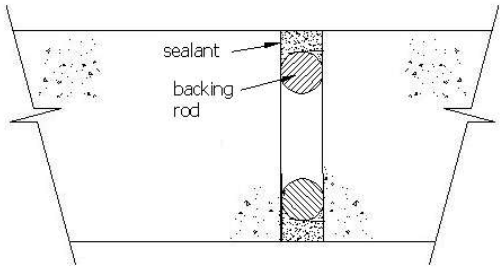
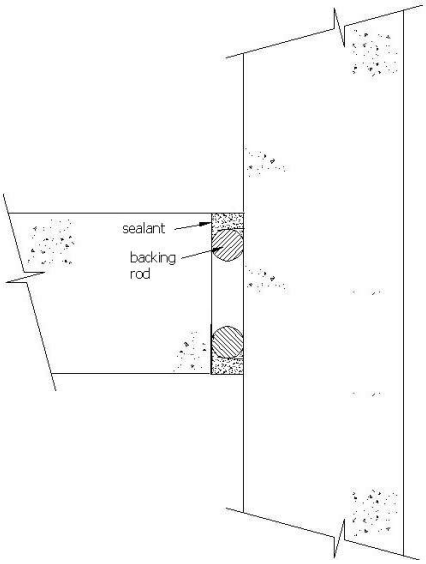
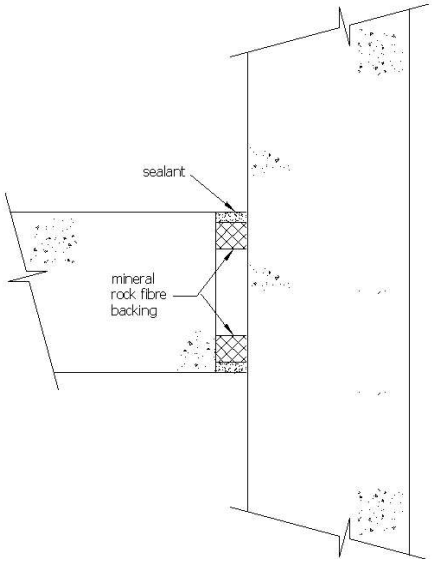
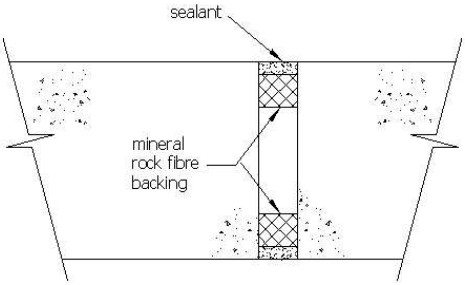
Linear Joint or Gap Seal: Vertically oriented with sealant to both faces

Construction details:









Firebreak 33 Linear Joint Seals in Rigid Walls 150 mm thick (min.) – Sealant flush to both faces of the wall			
Substrate	**Depth (mm)**	**Backing**	**Classification**
Masonry/concrete	2:1 Ratio Width to Depth	10 mm depth Polyethylene rod or stone mineral wool	**EI 240 – V – X – F – W 20 to 40**
	25 min.	25 mm Stone wool 90 kg/m^3	**EI 240 – V – X – F – W 0 to 40**
	10 min.	15 mm Stone wool 90 kg/m^3	**EI 240 – V – X – F – W 0 to 15**

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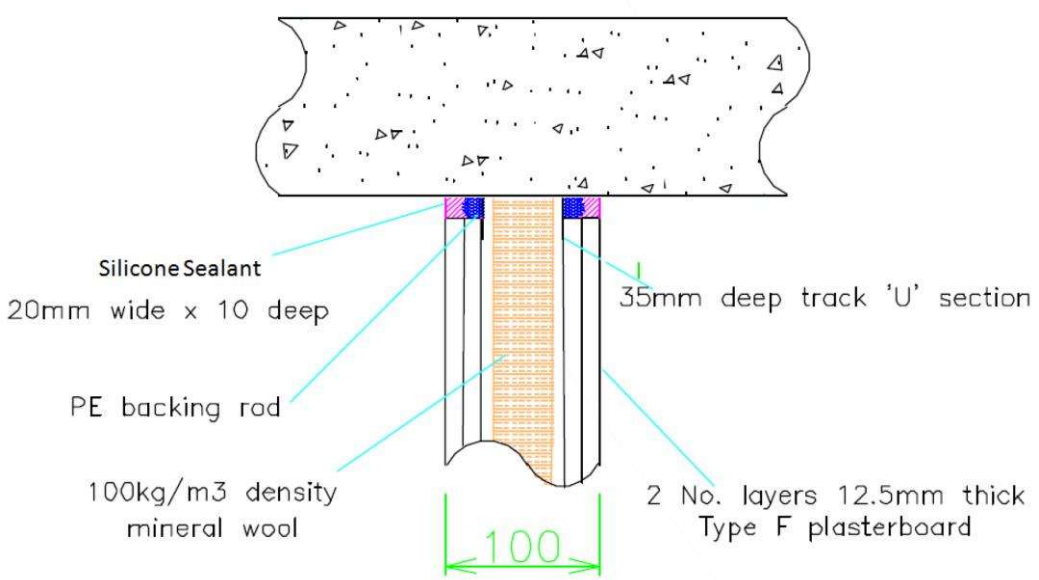
Flexible or rigid wall constructions with wall thickness of minimum 100 mm

Linear Joint or Gap Seal: At the head or base of flexible walls
Construction details: 

Firebreak 33 Linear Joint Seals in flexible or rigid Walls 100 mm thick (min.) – Sealant flush to both faces of the wall			
Substrate	**Depth (mm)**	**Backing**	**Classification**
Masonry/concrete/ plasterboard	10 min.	10 mm depth Polyethylene rod + 50 x 35 mm steel track	**EI 120 – T – X – F – W 20**

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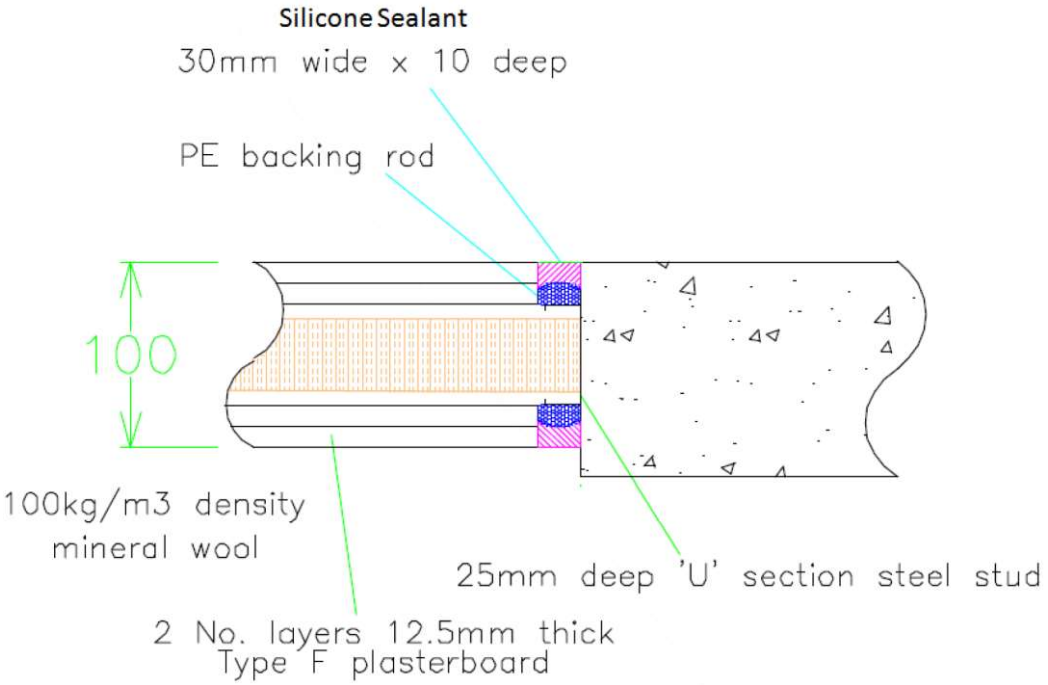
Flexible or rigid wall constructions with wall thickness of minimum 100 mm

Linear Joint or Gap Seal: At the vertical edge of flexible walls
Construction details: 

Firebreak 33 Linear Joint Seals in flexible or rigid Walls 100 mm thick (min.) – Sealant flush to both faces of the wall			
Substrate	**Depth (mm)**	**Backing**	**Classification**
Masonry/concrete/ plasterboard	10 min.	10 mm depth Polyethylene rod + 50 x 25 mm steel track	**EI 120 – V – X – F – W 30**

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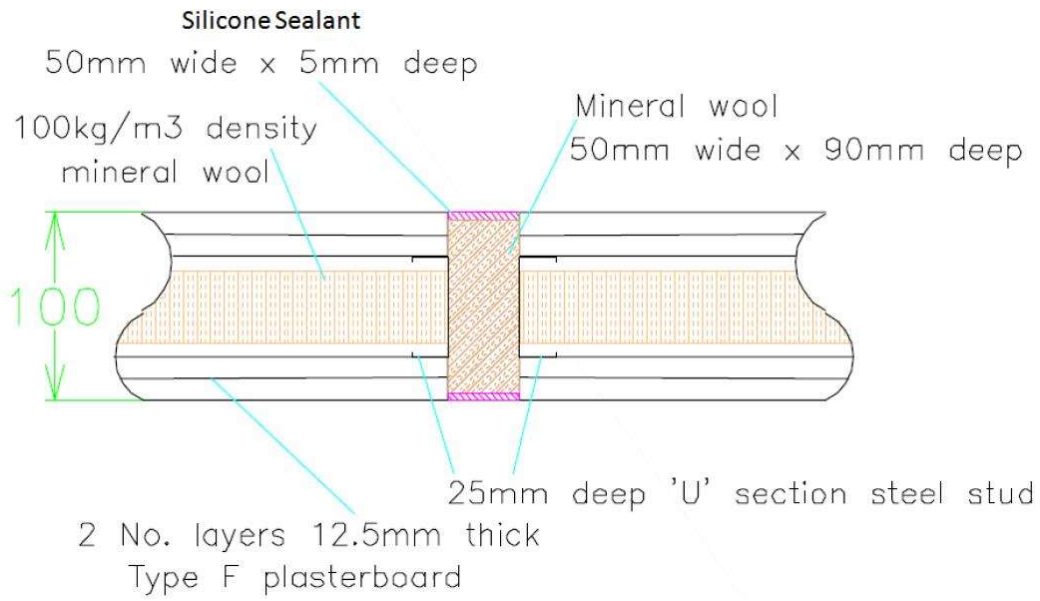
Appendix UL-EU CERTIFICATE UL-EU-00708-EN

Flexible or rigid wall constructions with wall thickness of minimum 100 mm

Linear Joint or Gap Seal: Between flexible walls
Construction details: 

Firebreak 33 Linear Joint Seals in flexible or rigid Walls 100 mm thick (min.) – Sealant flush to both faces of the wall			
Substrate	**Depth (mm)**	**Backing**	**Classification**
Plasterboard	5 min.	90 mm depth stone, mineral wool 100 kg/m^3	**EI 120 – V – X – F – W 50**

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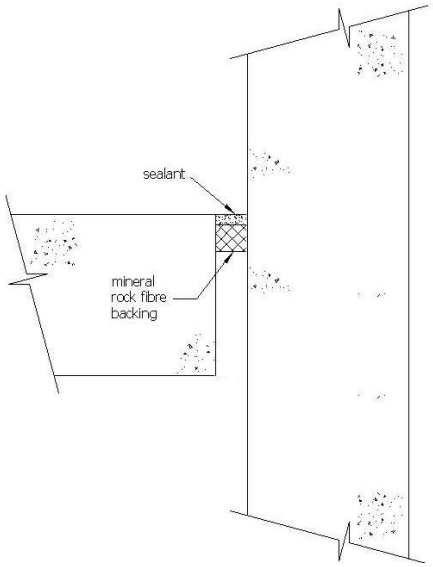
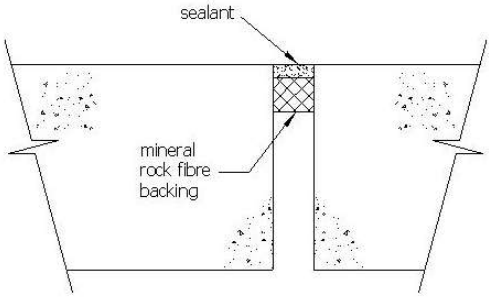
Rigid wall constructions with wall thickness of minimum 150 mm

Linear Joint or Gap Seal: Between floor slabs or between floor slab and wall with sealant to the top face of the floor only	
Construction details:  	

Firebreak 33 Linear Joint Seals in Rigid Walls 150 mm thick (min.) – Sealant flush to both faces of the wall			
Substrate	**Depth (mm)**	**Backing**	**Classification**
Masonry/concrete	2:1 Ratio Width to Depth	25 mm Stone wool 90 kg/m3	**E 240 – H – X – F – W 20 to 40** **EI 120 – H – X – F – W 20 to 40**
	10 min.		**E 240 – H – X – F – W 00 to 20** **EI 180 – H – X – F – W 00 to 20**

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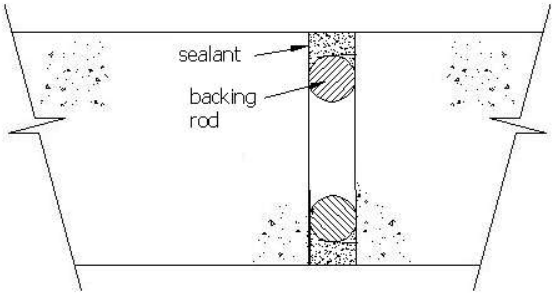
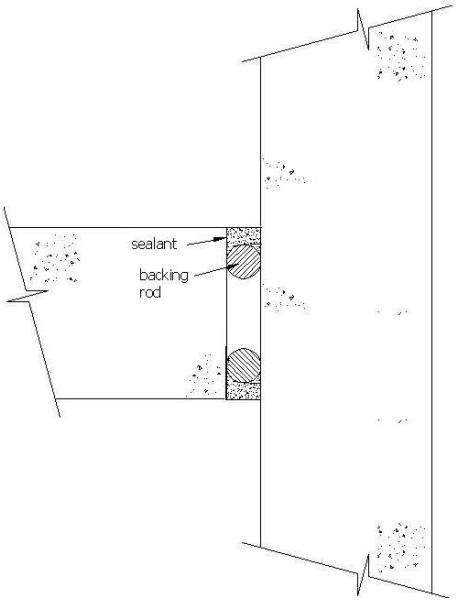
Linear Joint Seal: Firebreak 22 to both sides of the wall	
Construction details: 	

Firebreak 33 Linear Joint Seals in Rigid Floors 150 mm thick (min.) – Sealant to the top of the floor only			
Substrate	**Depth (mm)**	**Backing**	**Classification**
Masonry/ concrete	2:1 Ratio Width to Depth to min. of 10	10 mm depth Polyethylene rod or stone mineral wool	**EI 180 – H – X – F – W 20 to 40**
	20 min.		**EI 240 – H – X – F – W 00 to 40**

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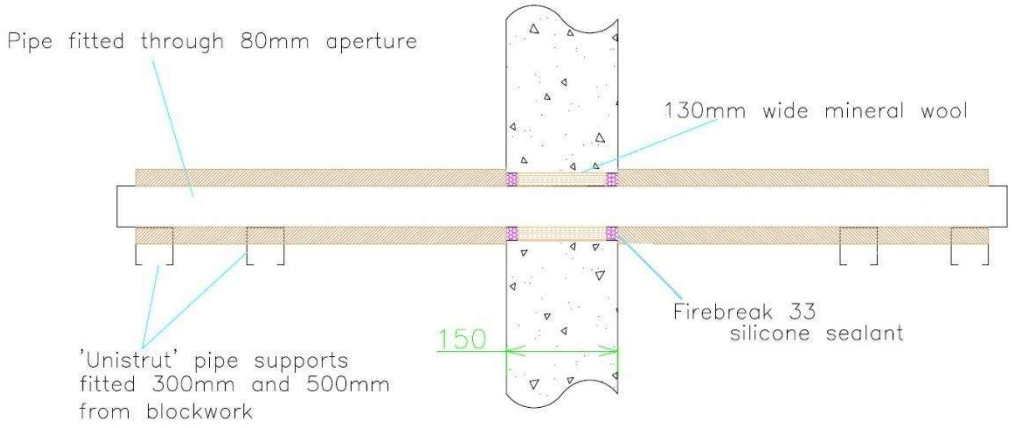
Penetration Seals

Rigid wall constructions with wall thickness of minimum 150 mm

Penetration Seal: Metal pipe including continuous interrupted (CI) or minimum 500 mm long local interrupted (LI) combustible insulation.
Construction details: 

Firebreak 33 / Penetration Seals in Rigid Walls 150 mm thick (min.)				
Aperture size (mm)	**Seal composition**	**Service(s)**	**Position of service(s)**	**Classification**
80 diameter	Single 10 mm deep Firebreak 33 flush to both faces of the wall, backed with 130 mm deep Stone wool (90 kg/m^3)	Single steel pipe 40 mm diameter and 3.2 – 14.2 mm wall, insulated with 25 mm thick 'Class B*' Nitrile Rubber insulation	Central	**EI 240 C/U**
		Single copper pipe 38 mm diameter and 1.2 – 14.2 mm wall, insulated with 25 mm thick 'Class B*' Nitrile Rubber insulation		**EI 120 C/U**

* Classified to EN 13501-1

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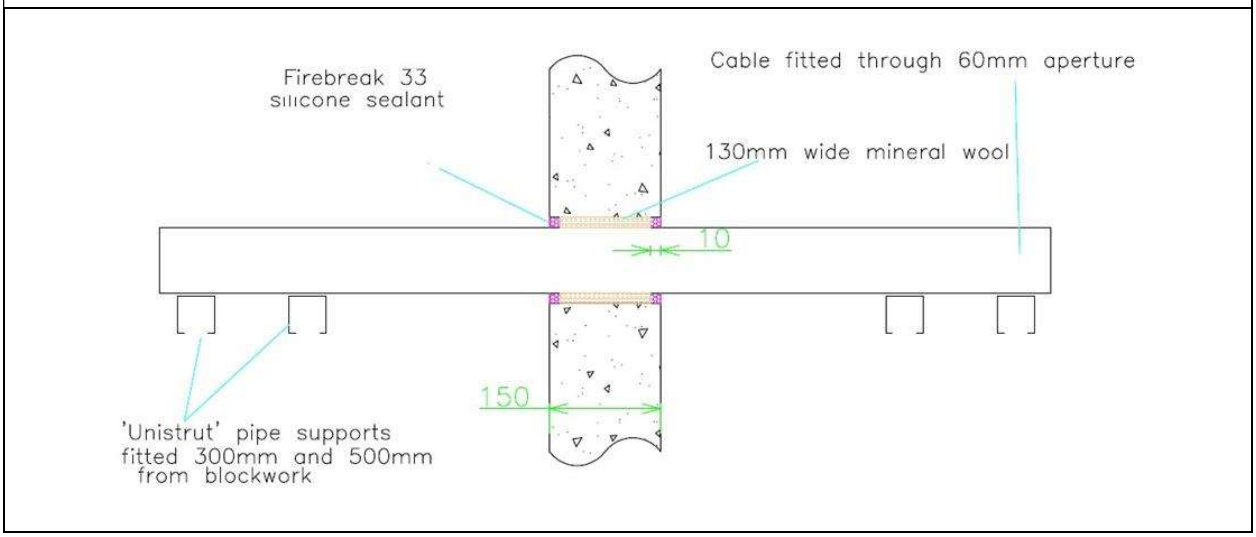
Penetration seal with uninsulated metal pipe

Penetration Seal: Metal pipes, uninsulated, fitted centrally with a single Firebreak 33 seal to both sides of the wall backed with minimum 130 mm deep Stone wool insulation 90kg/m^3.


Pipes without insulation

Firebreak 22 Penetration Seals in Rigid Walls 150 mm thick (min.)				
Aperture size (mm)	**Seal composition**	**Service(s)**	**Position of service(s)**	**Classification**
80 diameter	Single 10 mm deep Firebreak 33 flush to both faces of the wall, backed with 130 mm deep Stone wool (90 kg/m^3)	Single steel pipe 40 mm diameter and 3.2 – 14.2 mm wall	Central	**E 240 C/U, EI 120 C/U**
		Single copper pipe 38 mm diameter and 1.2 – 14.2 mm wall		**E 120 C/U**

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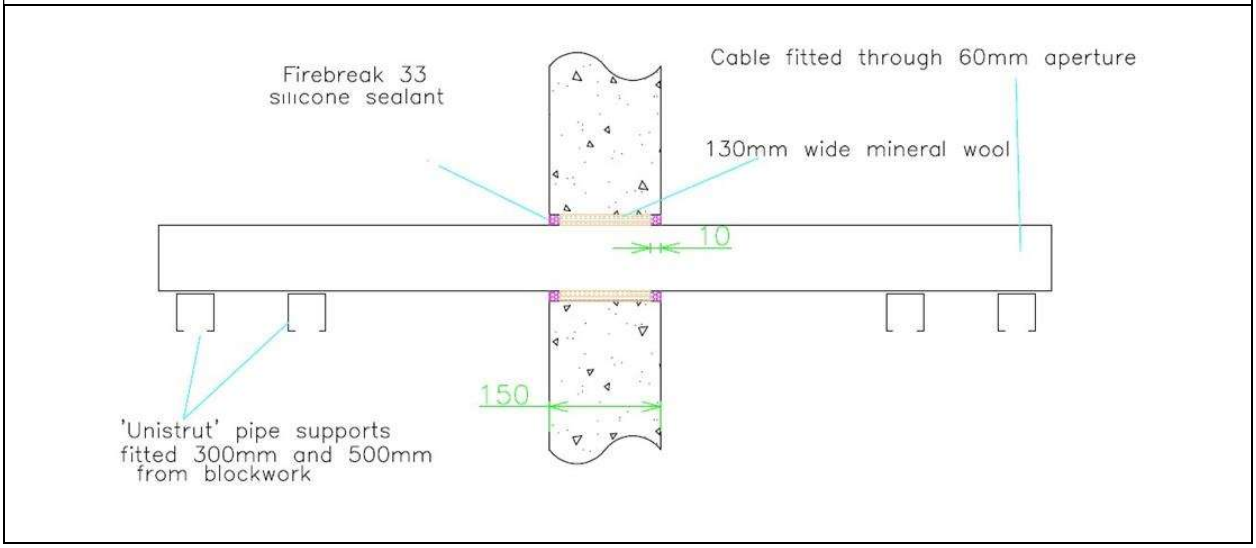
Penetration seal with Cables

Penetration Seal: Electrical cables fitted centrally in the aperture with a single Firebreak 33 seal to both sides of the wall backed with minimum 130 mm deep Stone wool insulation 90kg/m^3.


Cables

Firebreak 33 Penetration Seals in Rigid Walls 150 mm thick (min.)				
Aperture size (mm)	**Seal composition**	**Service(s)**	**Position of service(s)**	**Classification**
60 diameter	Single 10 mm deep Firebreak 33 flush to both faces of the wall, backed with 130 mm deep Stone wool (90 kg/m^3	Bunch of 4 x 'A3' cables + 1 x 'C3' cable	Central	**EI 240**
		Single 'E' cable		

A3 cable = 5 x 1.5 mm2 core HD604.5 electrical cable with XLPE insulation, EVA sheath and 13 mm diameter
C3 cable = 4 x 95 mm2 core HD604.5 electrical cable with XLPE insulation, EVA sheath and 42 mm diameter
E cable = 1 x 185 mm2 core HD603.3 electrical cable with PVC insulation, PVC sheath and 23-27 mm diameter

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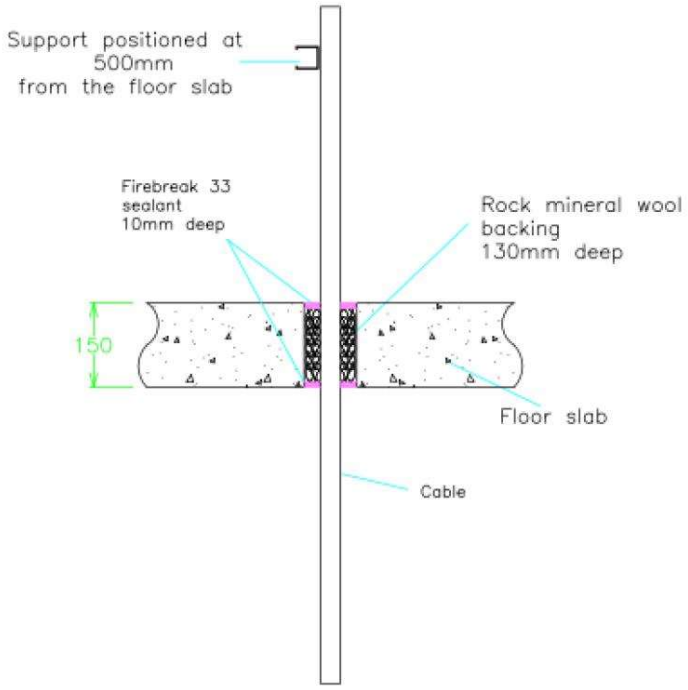
Rigid floor construction with floor thickness of minimum 150mm

Penetration seal with cables

Penetration Seal: Electrical cables fitted centrally in the aperture with a single Firebreak 33 seal flush to both faces of the floor backed with minimum 130 mm deep Stone wool insulation 90kg/m^3.


Cables

Firebreak 33 Penetration Seals in Rigid Floors 150 mm thick (min.)				
Aperture size (mm)	**Seal composition**	**Service(s)**	**Position of service(s)**	**Classification**
80 diameter	Single 10 mm deep Firebreak 33 flush to both faces of the floor, backed with 130 mm deep Stone wool (90 kg/m^3)	Single 'E' cable	Central	**E 240, EI 45**

E cable = 1 x 185 mm2 core HD603.3 electrical cable with PVC insulation, PVC sheath and 23-27 mm diameter

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

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