# UL-EU CERTIFICATE

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UL-EU-01301-EN

**Issue date**
18-11-2024

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1

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-

**Expiry date**
17-11-2034

UKAS PRODUCT CERTIFICATION
4705

**Certificate Holder:**
Greentech Thermal Insulation Products Mfg Co LLC

**Address:**
PO Box 3350
New Industrial Area
Umm AL Quwain
United Arab Emirates

**Product:**
HEATSHIELD S550

**Places of production:**
U/002

**Standard:**
EAD 350454-00-1104, September 2017,
EAD 350141-00-1106, September 2017

Authorised Signatory:

Chris Johnson
Issued by UL International (UK) Ltd

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 HEATSHIELD S550, is a fire-resistant sealant used to form linear gap seals where gaps are present in wall and floor constructions and to form a penetration seal around metallic pipes, combustible cable conduits and electrical cables to reinstate the fire resistance performance of wall and floor constructions, where they have been provided with apertures for the penetration of services.
The detailed scope is given in pages 4 to 17 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) Inspection and surveillance of factory production control by UL
ii) Fire resistance test data in accordance with EN 1366-3:2021 and EN 1366-4:2021
iii) Classification in accordance with EN 13501-2:2016
iv) Durability and Serviceability as defined in EAD 350454-00-1104, September 2017 and EAD 350141-00-1106, September 2017.



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# Appendix UL-EU CERTIFICATE UL-EU-01301-EN

## I. SPECIFIC PARTS OF THE UL-EU CERTIFICATION

### 1 Technical description of the product

1. HEATSHIELD S550 is a fire-resistant sealant used to form linear gap seals where gaps are present in wall and floor constructions and to form a penetration seal around metallic pipes, combustible cable conduits and electrical cables to reinstate the fire resistance performance of wall and floor constructions, where they have been provided with apertures for the penetration of services.

2. The HEATSHIELD S550 is supplied in liquid form contained within 300 ml cartridges and 600 ml foil packs.

   a) For linear joint systems the sealant is:

      i) gunned into the aperture in the separating element/elements to a specified depth utilising a backing material.

   b) For penetration seal systems the sealant is:

      i) applied around the service or services as a bead and backfilled with mineral wool which is installed into the aperture in the separating element/elements and around the service or services flush to both surfaces of wall to a specified depth or flush to both surfaces of floor to entire depth of floor. The bead of HEATSHIELD S550 sealant is then adhered to substrate and penetrant by forming a concave shaped seam.
      ii) gunned into the aperture in the separating element/elements and around the service or services, to a specified depth utilising mineral fibre insulation backing material.

3. Greentech Thermal Insulation Products Mfg Co LLC submitted a written declaration that HEATSHIELD S550 does not contain substances which have to be classified as dangerous according to Directive 67/548/EEC and Regulation (EC) No 1272/2008 and listed in the "Indicative list on dangerous substances" of the EGDS - taking into account the installation conditions of the construction product and the release scenarios resulting from there.

   In addition to the specific clauses relating to dangerous substances contained in this UL-EU certificate, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

4. The use category of HEATSHIELD S550in relation to BWR 3 (Hygiene, health and environment) is IA1 S/W2.





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## 2 Specification of the intended uses of the product in accordance with the applicable European Assessment Document (Hereinafter EAD): EAD 350141-00-1106: 2017 and EAD 350454-00-1104: 2017

Detailed information and data is given in Annex A.

The intended use of system HEATSHIELD S550 is to reinstate the fire resistance performance of gaps and joints in rigid wall constructions, gaps and joints between rigid floor constructions and to reinstate the fire resistance performance of flexible wall constructions, rigid wall constructions and rigid floor constructions where they are penetrated by various metal pipe services with and without combustible insulation, plastic pipes, combustible cable conduits, composite pipes and electrical cables.

1.1 The specific elements of construction that the system HEATSHIELD S550 may be used to provide a gap or joint seal in, are as follows:

Rigid walls: The wall must have a minimum thickness of 120 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 450 kg/m$^3$.

Rigid floors: The floor must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m$^3$.

1.2 The specific elements of construction that the system HEATSHIELD S550 may be used to provide a penetration seal in, are as follows:

Flexible walls: The wall must have a minimum thickness of 100 mm and comprise steel or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards. The insulation of the flexible wall shall be nominal 50 mm thick with a density of 100 kg/m$^3$. Flexible wall solutions may also be used in rigid walls, with a minimum density of 350 kg/m$^3$.

Rigid floors: The floor must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m$^3$.

* no part of the penetration seal may be closer than 100 mm to a stud, the cavity must be closed between the penetration seal and the stud, and minimum 100 mm of insulation of class A1 or A2 according to EN 13501-1 must be provided within the cavity between the penetration seal and the stud.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

2. The system HEATSHIELD S550 may be used to provide a linear joint, gap seal or penetration seal system with specific supporting constructions and substrates (for details see Annex A).

3. The maximum permitted joint/gap width for system HEATSHIELD S550 is 40 mm.

4. The maximum movement capability of system HEATSHIELD S550 is ≤ 7.5% (not tested to EAD 350141-00-1106).

5. The first support (service support construction) for penetrants in flexible and rigid walls has to be at maximum 450 mm (measured from the surface of the separating element). In rigid floors the first support has to be at maximum 250 mm from top surface of floor.





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6. The designation U/U, C/U, U/C or C/C indicates whether or not the product under test are capped during the fire test.
The first letter refers to the situation in the furnace and the second to the situation outside the furnace (see table).

| Test condition | Configuration | |
|---|---|---|
| | Inside the furnace | Outside the furnace |
| U/U | Uncapped | Uncapped |
| C/U | Capped | Uncapped |
| U/C | Uncapped | Capped |
| C/C | Capped | Capped |

The tests carried out with uncapped ends (U/U) correspond to the most unfavorable situation, since the fire can spread more easily because the two ends are open.
The results of these tests may therefore be applied in all situations (U/U, C/U, U/C and C/C).
The C/U tests may be used in the following situations: C/U, U/C and C/C. The U/C tests may in turn be used for situations U/C and C/C, while the C/C tests may only be used in the C/C situation.

7. Where PVC conduits are mentioned in Annex A, this includes PVC-U rigid conduits according to EN 61386-1 and EN 61386-21.

8. The provisions made in this UL-EU Certificate are based on an assumed working life of the HEATSHIELD S550 of 10 years, provided that the conditions laid down in the manufacturers datasheet and instructions for the packaging/transport/ storage/installation/use/repair are met. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

9. Type $Z_1$: intended for uses in internal conditions with humidity equal to or higher than 85% RH, excluding temperatures below 0°C (no exposure to frost or changing frost-thaw but permanent or alternating condensation). Since the requirements for Type $Z_1$ are met, also the requirements for Type $Z_2$ are fulfilled.





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## 3 Performance of the product and references to the methods used for its assessment

| Product-type: Sealant | | Intended use: Linear Joint & Gap Seal; Penetration Seal |
|---|---|---|
| Basic requirement for construction work | Essential characteristic | Performance |
| **BWR 2 Safety in case of fire** | | |
| EN 13501-1 | Reaction to fire | Class E |
| EN 13501-2 | Resistance to fire | Annex A |
| **BWR 3 Hygiene, health and environment** | | |
| Declaration of manufacturer & EN 16516 | Content, emission and/or release of dangerous substances | Use categories: IA1, S/W2<br>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<br>ISO 11600 & EAD 350141-00-1106, Clause 2.2.13 | Adhesion | No performance determined |
| EAD 350141-00-1106, Clause 2.2.12 / EAD 350454-00-1104, Clause 2.2.9 | Durability | $Z_1$ |
| 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 10456 | Thermal properties | No performance determined |
| EN ISO 12572, EN 12086, EN ISO 10456 | Water vapour permeability | No performance determined |





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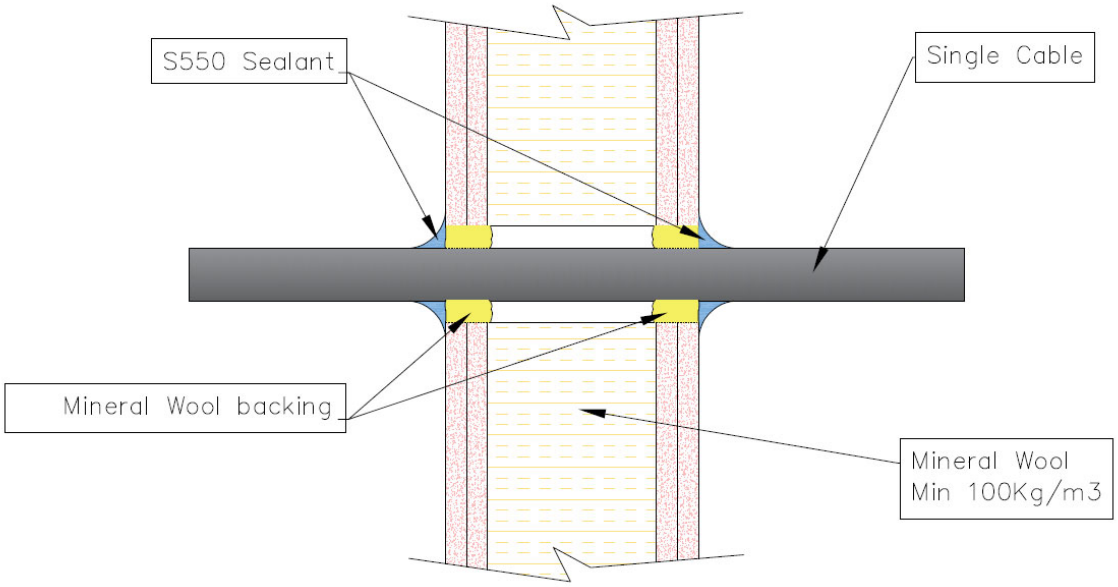
# ANNEX A – Resistance to Fire Classification (Penetration Seal Systems) – HEATSHIELD S550

### A.1 Flexible wall constructions according to 1.2.1 with wall thickness of minimum 100 mm

### A.1.1 Double sided penetration seal with cables

**Penetration Seal:** Cables centered within the aperture and sealed with HEATSHIELD S550. Minimum separation between penetration seals of 100 mm.

Construction details:




#### A.1.1.1

| Services | Opening size [mm] | S550 sealant details | Backing material | Annular space | Classification |
|---|---|---|---|---|---|
| Single electrical cable of H07RN-F (5x1.5 $mm^2$) with a maximum outer diameter of 14 mm | Ø ≤ 25 | Bead of 10 mm x 10 mm | 15 mm thick stone wool (ρ ≥ 50 $kg/m^3$) flush with both surfaces of wall | 8 mm | **E 60**<br>**EI 60** |
| Single electrical cable of H07RN-F (4x95 $mm^2$)<br>with a maximum outer diameter of 60 mm | Ø ≤ 71 | | | 9 mm | **E 120**<br>**EI 120** |
| Electrical cable(s), single or bundle of up to Ø 90 mm, of Cat-5e Network cable with a maximum outer diameter of 6 mm | Ø ≤ 100 | | | 5 mm | **E 120**<br>**EI 120** |





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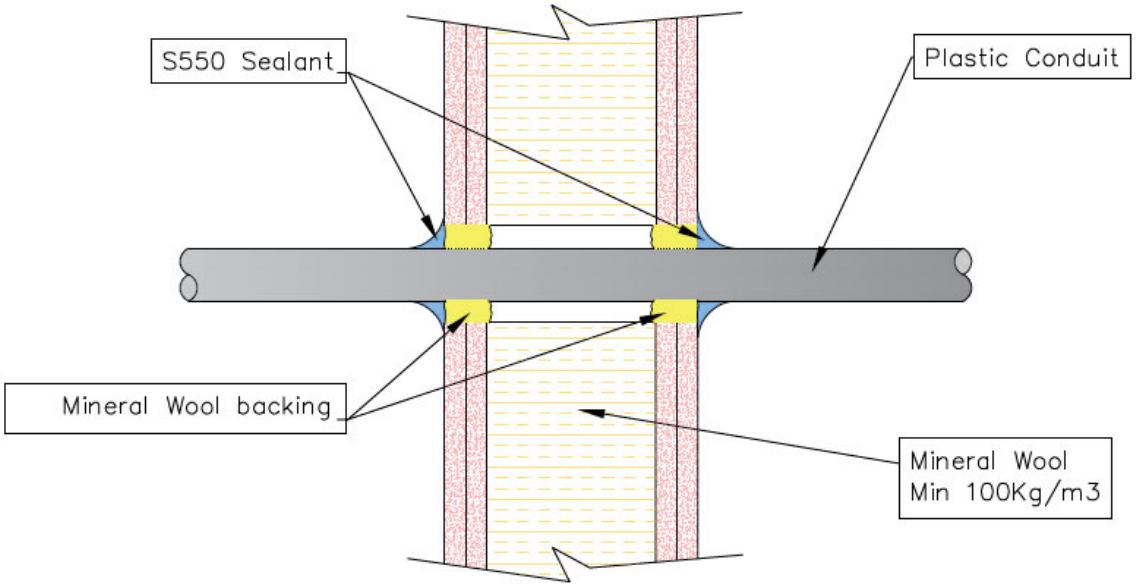
### A.1.2 Double side penetration seal with plastic conduits

**Penetration Seal:** Combustible conduits (single) centered within the aperture and sealed with HEATSHIELD S550. Minimum separation between penetration seals of 100 mm.

Construction details:




**A.1.2.1**

| Services | Opening size [mm] | S550 sealant details | Backing material | Annular space | Classification |
|---|---|---|---|---|---|
| PVC conduit, Diameter ≤ 20 mm, wall thickness 1.6 mm | Ø ≤ 32 | Bead of 10 mm x 10 mm | 15mm thick stone wool (50 kg/m$^3$) flush with both surfaces of wall | 6 mm | **E 60-C/C**<br>**EI 60-C/C** |
| PVC conduit, Diameter ≤ 32 mm, wall thickness 2.5 mm | Ø ≤ 44 | | | | **E 60-C/C**<br>**EI 60-C/C** |





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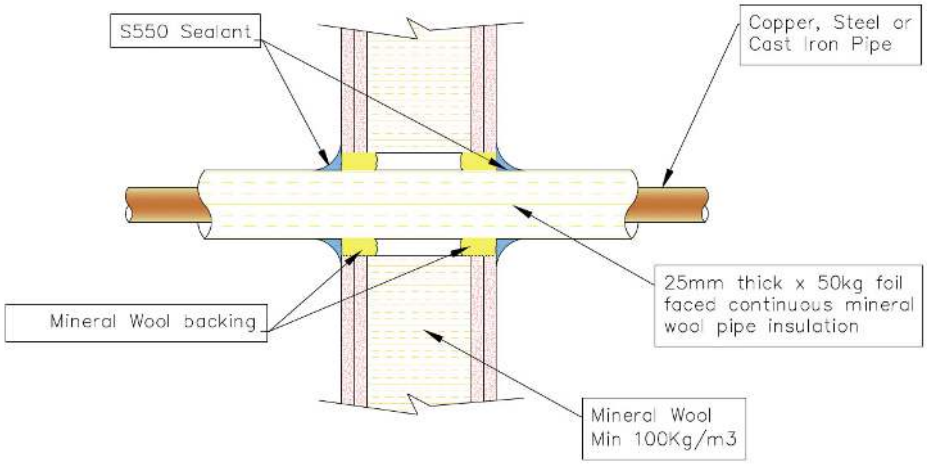
### A.1.3.1 Double sides penetration seal with insulated metal pipes

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes (single) centered within the aperture and sealed with HEATSHIELD S550. Minimum separation between penetration seals of 100 mm.

Construction details:




**A.1.3.1**

| Services | Opening size [mm] | S550 sealant details | Backing material | Insulation | Annular space | Classification |
|---|---|---|---|---|---|---|
| Copper, steel or cast iron pipe up to 15 mm diameter and min. wall thickness of 0.7 mm | Ø ≤ 71 | Bead of min. 10 mm x 10 mm | 10 mm thick stone wool (50 kg/m$^3$) flush with both surfaces of wall | Min. 25 mm thick aluminium foil faced stone wool insulation (50 kg/m$^3$) | 3 mm | **E 120-C/C EI 120-C/C** |
| Copper, steel or cast iron pipe up to 67 mm diameter and min. wall thickness of 1.2 mm | Ø ≤ 132 | | 15 mm thick stone wool (50 kg/m$^3$) flush with both surfaces of wall | | 7 mm | **E 120-C/C EI 120-C/C** |
| Steel or cast iron pipe up to 22.2 mm diameter and min. wall thickness of 1.2 mm | Ø ≤ 82 | | | | 5 mm | **E 120-C/C EI 120-C/C** |
| Steel or cast iron pipe up to 76.2 mm diameter and min. wall thickness of 3.25 mm | Ø ≤ 132 | | | | 3 mm | **E 120-C/C EI 120-C/C** |
| Steel or cast iron pipe up to 152.4 mm diameter and min. wall thickness of 3.25 mm | Ø ≤ 220 | | | | 9 mm | **E 120-C/C EI 90-C/C** |





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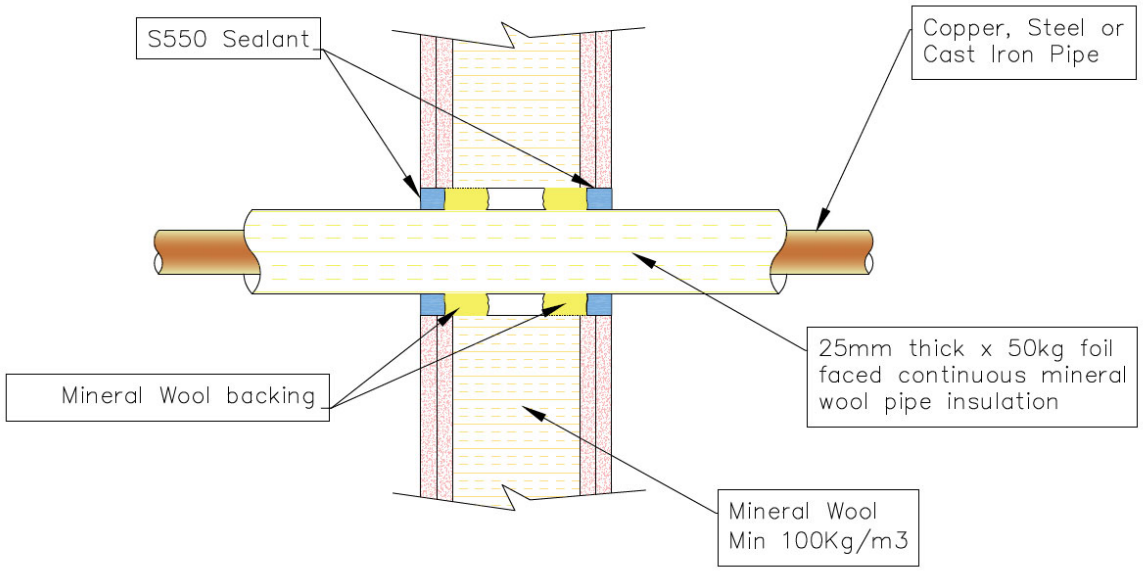
### A.1.4.1 Double sides penetration seal with insulated metal pipes

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes (single) centered within the aperture and sealed with HEATSHIELD S550. Minimum separation between penetration seals of 100 mm.

Construction details:




**A.1.4.1**

| Services | Opening size [mm] | S550 sealant details | Backing material | Insulation | Annular space | Classification |
|---|---|---|---|---|---|---|
| Copper, steel or cast iron pipe up to 108 mm diameter and min. wall thickness of 1.5 mm | Ø ≤ 180 | 10 mm depth flush with both surfaces of wall | 20 mm thick stone wool (50 kg/m$^3$) recessed 10 mm into opening | Min. 25 mm thick aluminium foil faced stone wool insulation (50 kg/m$^3$) | 11 mm | **E 120-C/C**<br>**EI 90-C/C** |





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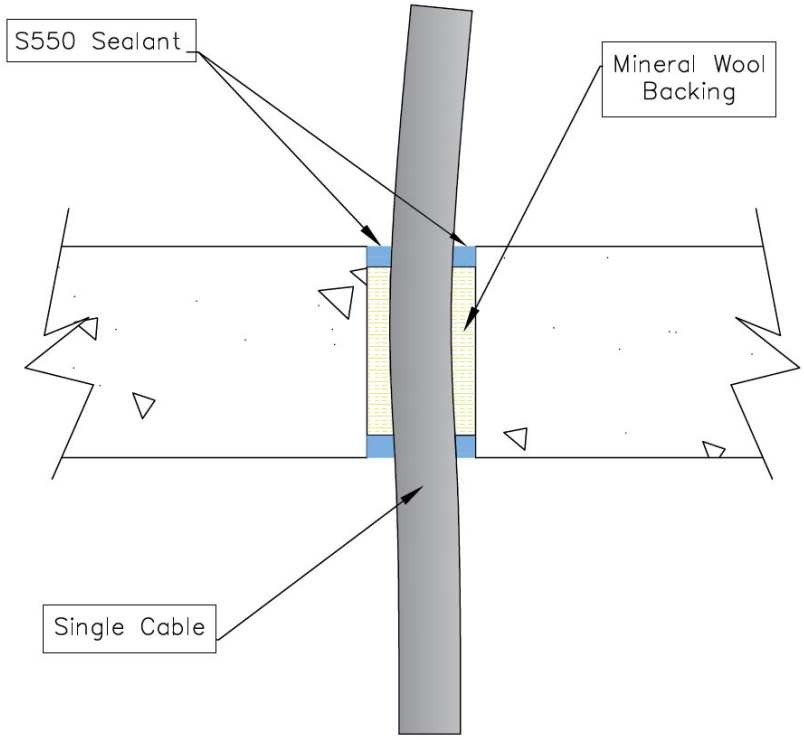
## A.2 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

### A.2.1 Double side penetration seal with cables

**Penetration Seal:** Cables (single) centered within the aperture and sealed with HEATSHIELD S550. Minimum separation between penetration seals of 100 mm.

Construction details:




#### A.2.1.1

| Services | Opening size [mm] | S550 sealant details | Backing material | Annular space | Classification |
|---|---|---|---|---|---|
| Single electrical cable, of NYM-J (5x2.5 $mm^2$) with a maximum outer diameter of 14 mm | Ø ≤ 32 | Bead of min. 12 mm x 12 mm | Mineral stone wool (50 $kg/m^3$) flush with both surfaces of floor | 9 mm | **E 120**<br>**EI 120** |
| Single electrical cable of N2XH-F (4x95 $mm^2$)<br>with a maximum outer diameter of 45 mm | Ø ≤ 63 | | | | **E 120**<br>**EI 30** |
| Single electrical cable of H07RN-F (4x95 $mm^2$)<br>with a maximum outer diameter of 60 mm | Ø ≤ 71 | | | 5-6 mm | **E 120**<br>**EI 120** |





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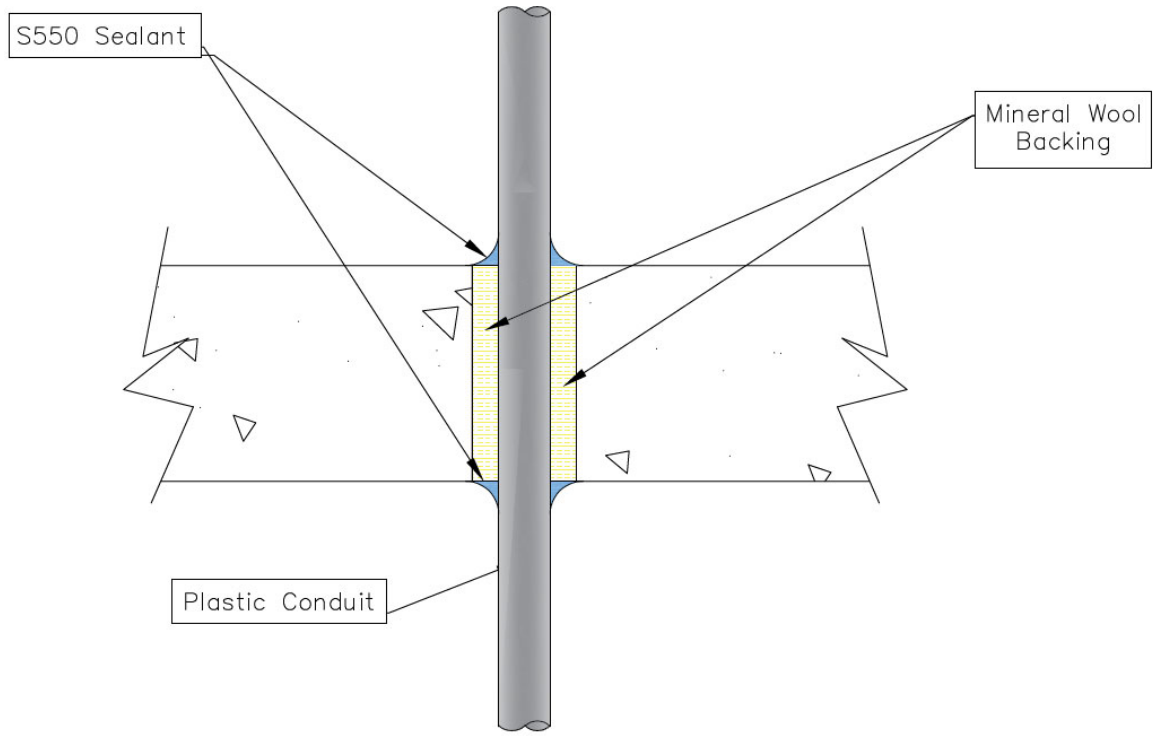
### A.2.2 Double side penetration seal with plastic conduits

**Penetration Seal:** Combustible conduits (single) centered within the aperture and sealed with HEATSHIELD S550. Minimum separation between penetration seals of 100 mm.

Construction details:




**A.2.2.1**

| Services | Opening size [mm] | S550 sealant details | Backing material | Annular space | Classification |
|---|---|---|---|---|---|
| PVC conduit, Diameter ≤ 20 mm, wall thickness 1.6 mm | Ø ≤ 32 | Bead of 12 mm x 12 mm | Mineral stone wool (50 kg/m$^3$) flush with both surfaces of floor | 6 mm | **E 120-C/C**<br>**EI 120-C/C** |
| PVC conduit, Diameter ≤ 32 mm, wall thickness 2.5 mm | Ø ≤ 44 | | | | **E 120-C/C**<br>**EI 120-C/C** |





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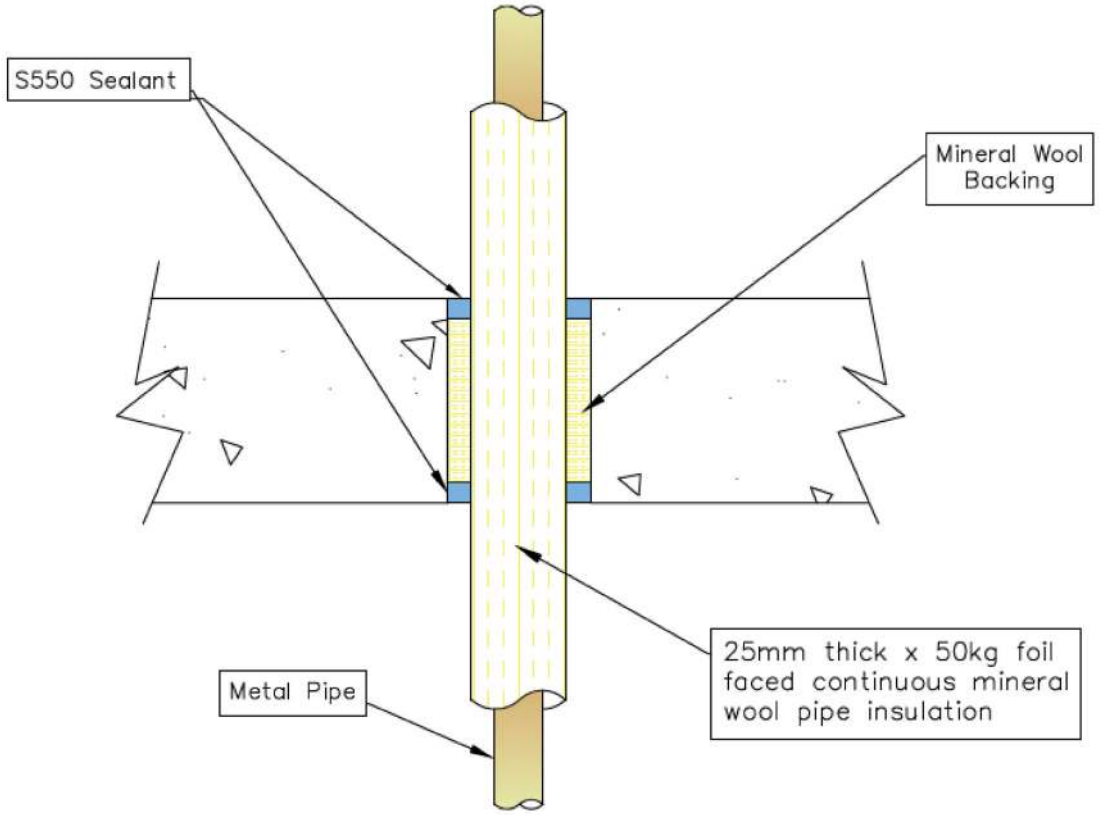
### A.2.3 Double side penetration seal with insulated metal pipes

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes (single) centered within the aperture and sealed with HEATSHIELD S550. Minimum separation between penetration seals of 100 mm.

Construction details:




### A.2.3.1

| Services | Opening size [mm] | S550 sealant details | Backing material | Inuslation | Annular space | Classification |
|---|---|---|---|---|---|---|
| Steel or cast iron pipe up to 22.2 mm diameter and min. wall thickness of 1.2 mm | Ø ≤ 102 | 12 mm depth | Mineral stone wool (50 kg/m$^3$) recessed 12 mm from both surfaces of floor | Min. 25 mm thick aluminium foil faced stone wool insulation (50 kg/m$^3$) | 15 mm | **E 120-C/C EI 120-C/C** |
| Steel or cast iron pipe up to 76.2 mm diameter and min. wall thickness of 3.25 mm | Ø ≤ 150 | | | | 12 mm | **E 120-C/C EI 120-C/C** |
| Steel or cast iron pipe up to 152.4 mm diameter and min. wall thickness of 3.25 mm | Ø ≤ 244 | | | | 21 mm | **E 120-C/C EI 90-C/C** |





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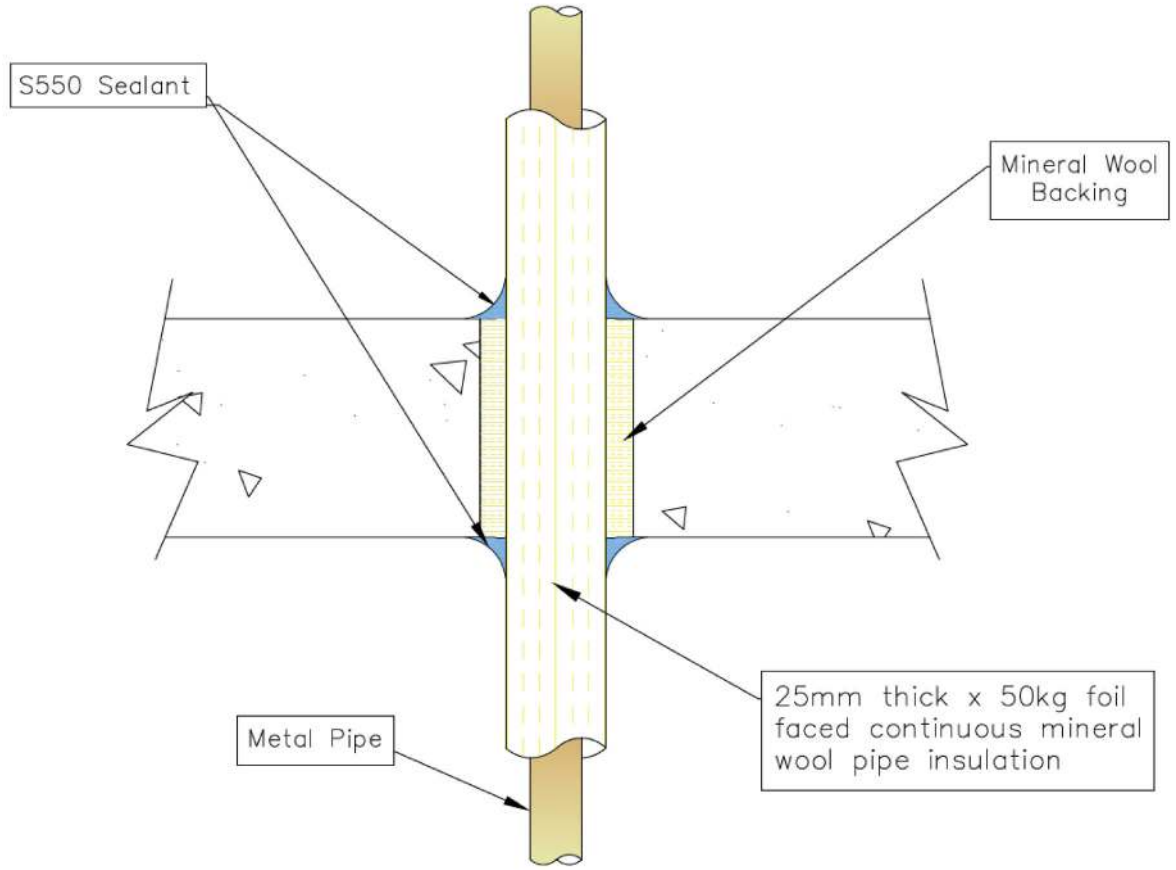
### A.2.4 Double side penetration seal with insulated metal pipes (S550 bead application)

**Penetration Seal:** CS (Continuous Sustained) insulated metallic pipes (single) centered within the aperture and sealed with HEATSHIELD S550. Minimum separation between penetration seals of 100 mm.

Construction details:




#### A.2.4.1

| Services | Opening size [mm] | S550 sealant details | Backing material | Inuslation | Annular space | Classification |
|---|---|---|---|---|---|---|
| Copper, steel or cast iron pipe up to 67 mm diameter and min. wall thickness of 1.2 mm | Ø ≤ 132 | Bead of min. 12 mm x 12 mm | Mineral stone wool (50 kg/m$^3$) flush with both surfaces of floor | Min. 25 mm thick aluminium foil faced stone wool insulation (50 kg/m$^3$) | 6-7 mm | **E 120-C/C**<br>**EI 120-C/C** |
| Copper, steel or cast iron pipe up to 108 mm diameter and min. wall thickness of 1.5 mm | Ø ≤ 180 | | | | 11 mm | **E 120-C/C**<br>**EI 120-C/C** |





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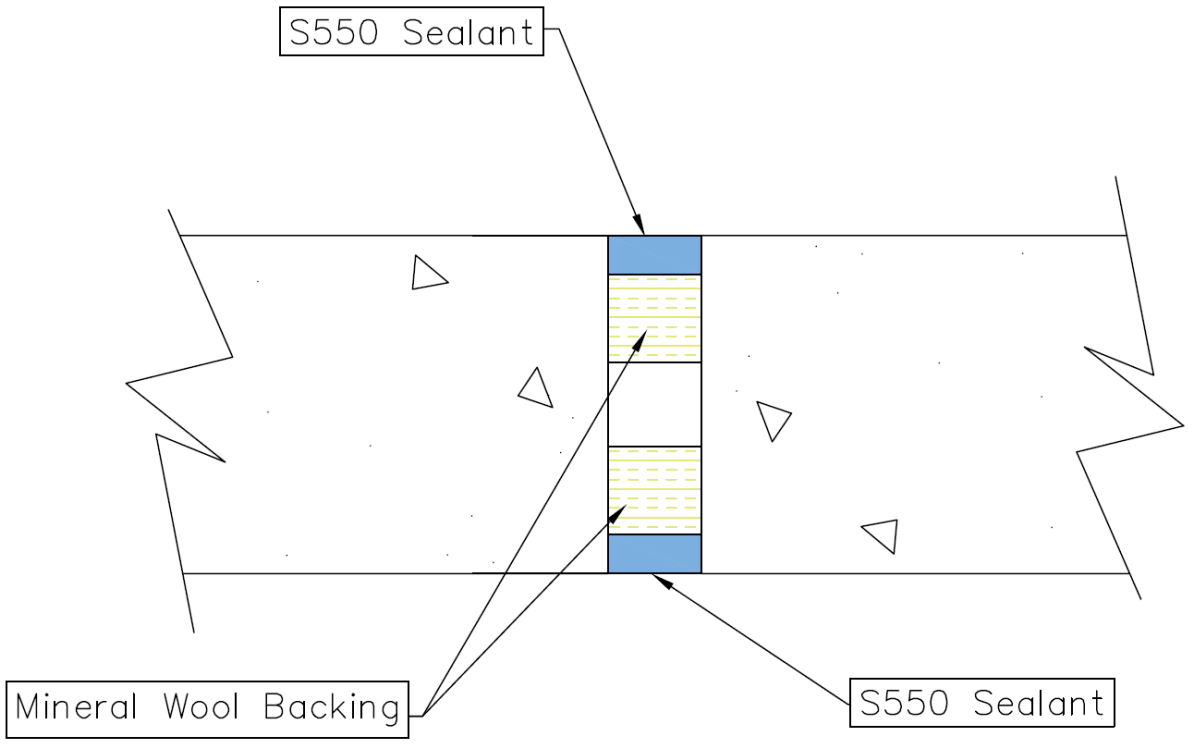
## Resistance to Fire Classification (Linear Joint Seals) – HEATSHIELD S550

### A.3 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 120 mm

### A.3.1 Linear joint seals between walls (vertical)

**Joint Seal:** HEATSHIELD S550 to both sides of the wall backed with mineral stone wool (50kg/m$^3$) with a min. compression of 50% across the joint width. Backing material to be recessed from surface of wall to accommodate required sealant thickness.

Construction details:




#### A.3.1.1

| Substrate | Sealant depth [mm] | Maximum joint width [mm] | Backing (minimum) | Classification |
|---|---|---|---|---|
| Concrete | 10 | 20 | 50 mm depth | **EI 240-V-X-B-W10 to W20** |
| | 20 | 40 | 40 mm depth | **EI 240-V-X-B-W10 to W40** |





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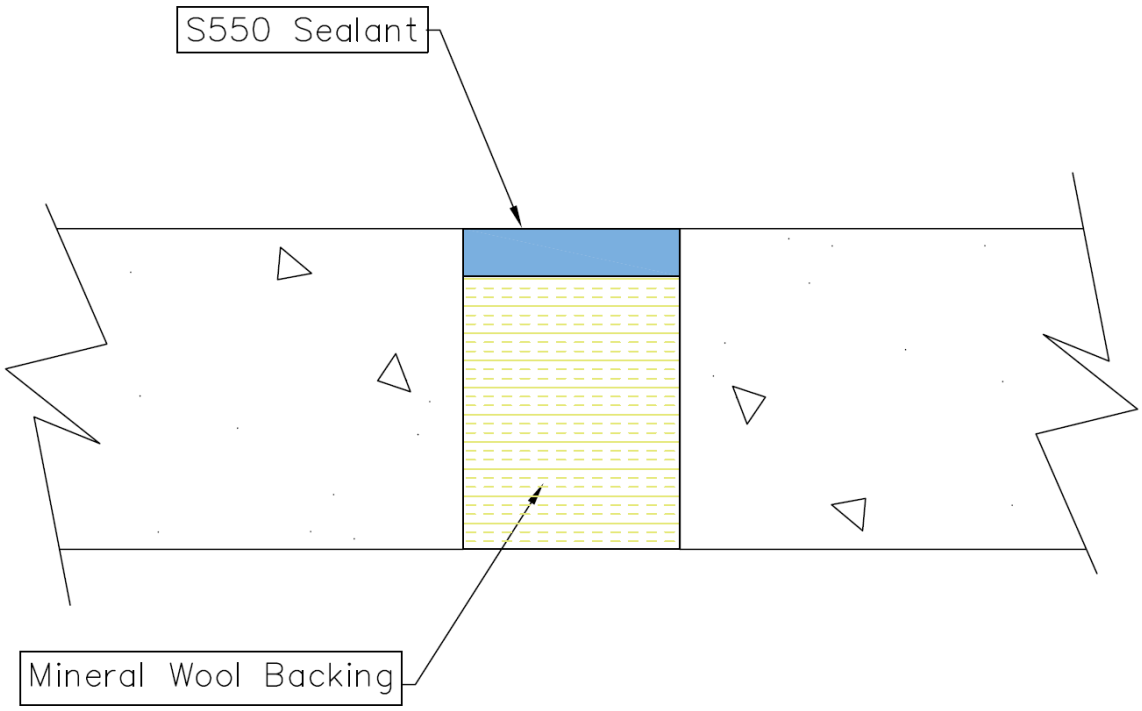
### A.4 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

#### A.4.1 Linear joint or gap seal between floor slabs

**Joint Seal:** HEATSHIELD S550 applied flush to top side of floor backed with mineral stone wool (50kg/m$^3$) with a min. compression of 50% across the joint width. Backing material to be recessed from top surface of floor to accommodate required sealant thickness.

Construction details:




#### A.4.1.1

| Substrate | Sealant depth [mm] | Maximum joint width [mm] | Backing (minimum) | Classification |
|---|---|---|---|---|
| Concrete | 12 | 12 | 138 mm depth | **EI 120-H-X-B-W 00 to W 12** |
| | 12 | 30 | 138 mm depth | **EI 120-H-X-B-W 00 to W 30** |





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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 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.





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