PROTECTA® EX MORTAR

INSTALLATION INSTRUCTIONS

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Please refer to Protecta® FR Damper for guidance on fire sealing ventilation ducts.

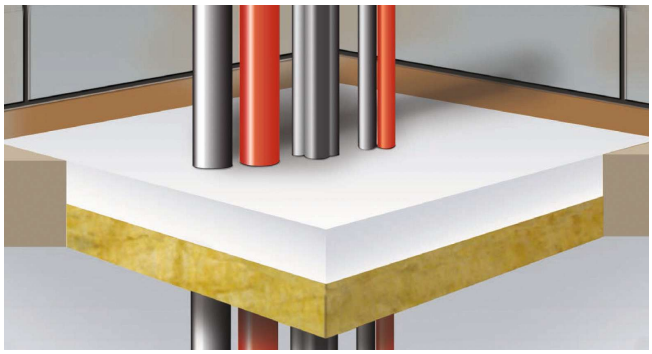
GENERAL GUIDE

Minimum separations and limitations: Services can be sealed as specified in the detailed drawings. An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 100 mm. Services should be a minimum of 25 mm from seal edges. Services within the system Protecta® EX Mortar seal do not require a minimum separation, except pipes where combustible pipe insulation penetrates the seal and plastic pipe penetrations, which should be a minimum of 30 mm from other services in the aperture.

Supporting constructions: Flexible walls must have a minimum thickness of 100 mm and comprise steel studs or timber studs*) lined on both faces with minimum 2 layers of 12.5 mm thick boards. Rigid walls must have a minimum thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 350 kg/m^3 (650 kg/m^3 in rigid wall details). Rigid floors must have a minimum thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m^3. The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period. Services in floors should be supported at maximum 450 mm from the top face. Services in walls should be supported at maximum 270 mm from both faces of the wall. Where cable trays are discontinued on both sides of the penetration seal, the maximum distance to the trays should be 150 mm.

*) Timber studs: no part of the penetration seal may be closer than 100 mm to a 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.

Services: Metallic pipes through the system Protecta® EX Mortar seal may be used in all angles between 90° and 45° in all directions. Where steel pipes are mentioned, this includes iron pipes. Where PVC pipes are mentioned, this includes PVC-U, PVC-C and similar if the pipe is according to EN 1329-1, EN 1452-2, EN 1453-1 and EN 1566-1. Where PP pipes are mentioned, this includes PP-MV, PP-H, PP-R and similar if the pipe is according to EN 1451-1 or DIN 8077/8078. Where PE pipes are mentioned, this includes PE-LD, PE-MD, PE-HD, PE-X and similar according to EN 1519-1, EN 12201-2 or EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1.



INSTALLATION

1. When sealing flexible walls the mortar should be flush with the surface of the wall on both sides.
2. When sealing rigid constructions, the seal can be positioned to either side of the construction or anywhere in between.
3. When sealing hollow floor slabs or boards, the seal should be level with the soffit side. There must be sufficient thickness of concrete below the void for the depth of mortar. Where this is not the case, tubular voids should be plugged with mortar before sealing the aperture.
4. Where top face seals are described, these can also be used in composite floors (e.g., concrete filled, steel trapezoidal decking) if the floor thickness supersedes the required mortar thickness.
5. An aperture with or without penetrating services, can include a steel sleeve casted or friction fitted within rigid constructions.
6. If the mortar seal is required to be load bearing, or to seal a larger aperture size, please see instructions in the Technical Data Sheet.
7. Where minimum 100 mm depth of mortar is described in the technical drawings, this can be reduced with 50 mm if a 50 mm high 45 ° angled cone made of mortar is added around services. If the reduction reduces the thickness to less than 100 mm, a stone wool shutter board is required, as specified in the technical drawings.
8. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
9. Any bare metal in contact with the mortar must be protected against corrosion using a suitable primer/protection system.
10. Install a stone wool shutter board where it is necessary to achieve the required thickness of mortar (see the technical drawings on pages 2-28). Make sure that this achieves a very tight seal – any small openings should be sealed with Protecta® FR Acrylic. If a stone wool shutter board is described in the detailed drawings but another shutter is to be used, the mortar can replace the stone wool shutter if the total seal depth is the same or greater. Where a stone wool shutter board is not described, it is optional to use one and it does not need to be removed.
11. Pour clean water into a suitable mixing vessel and add the mortar to obtain the required consistency. Mix steadily at low speed and ensure that any lumps of powder are fully dispersed. Always add the mortar to the water, do not reverse this mixing process. For different mix ratios and drying times, please refer to the Technical Data Sheet.
12. Once the desired consistency is achieved pour or trowel the mortar onto the shutter board making sure that it flows into all corners and around services. Apply a firm pressure to the mortar to eliminate any trapped air bubbles. Build up to the required depth.

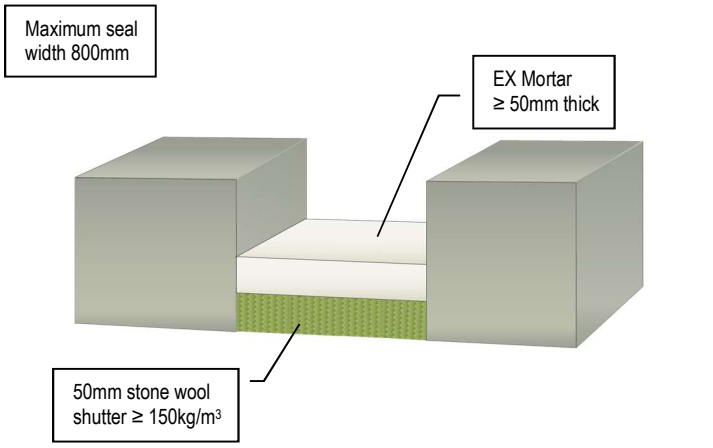
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Installation Guide to ETA 22/0748 & UKTA 22/0033

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Polyseam Ltd tel.+44(0)1484421036
1 (28) 2025 6 23

LINEAR SEALS FIRE RESISTANCE EI 180 (E 180)

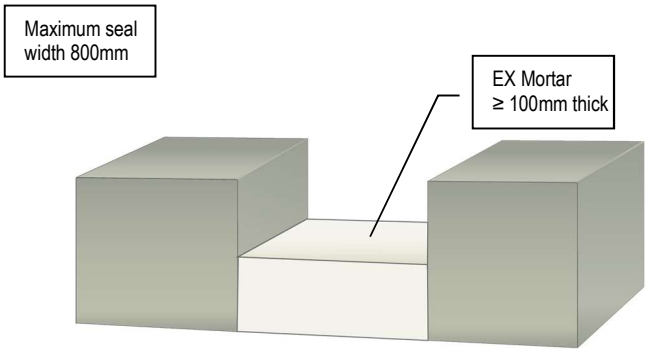
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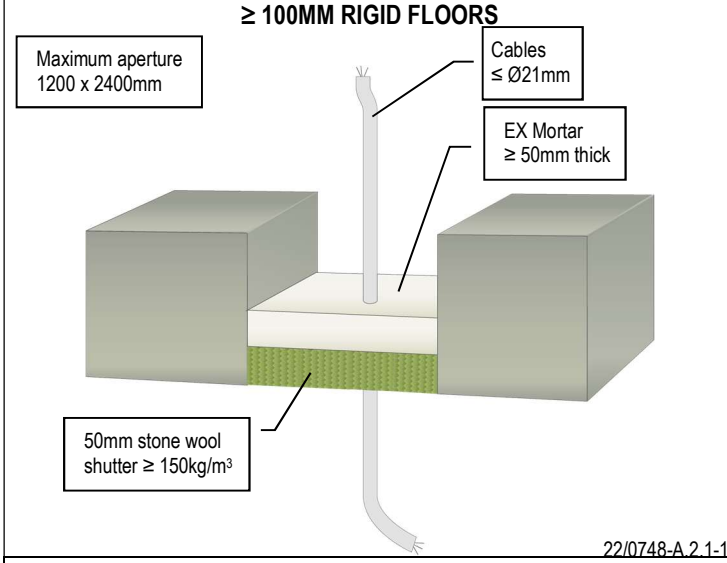
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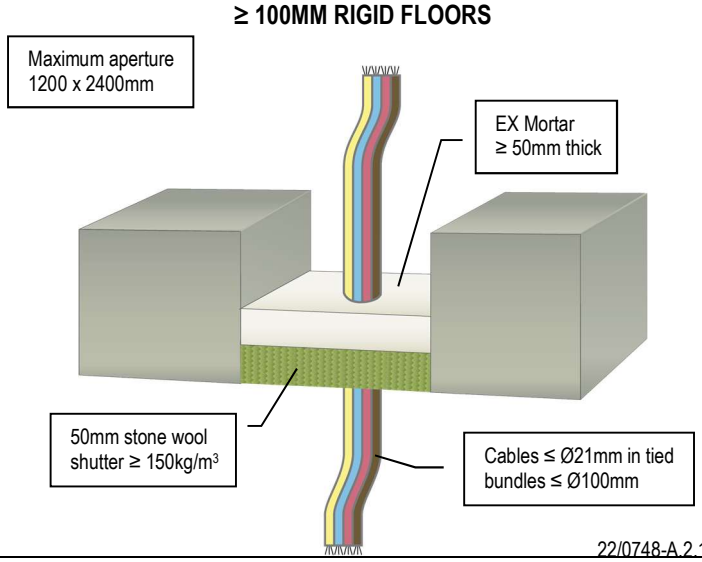
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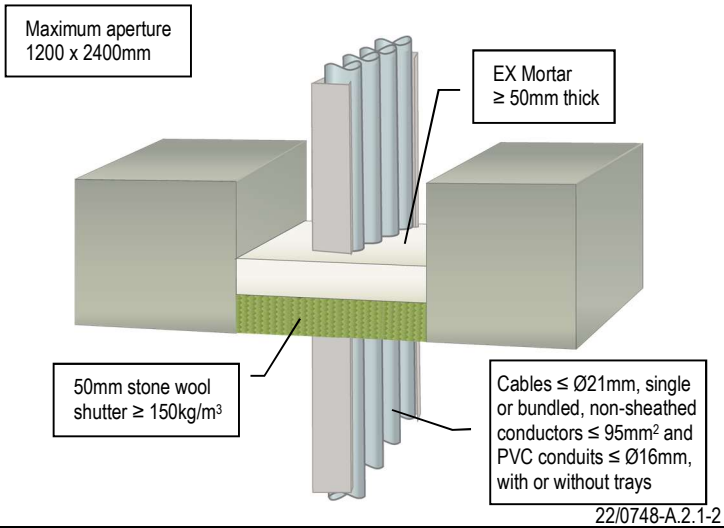
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CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 180)

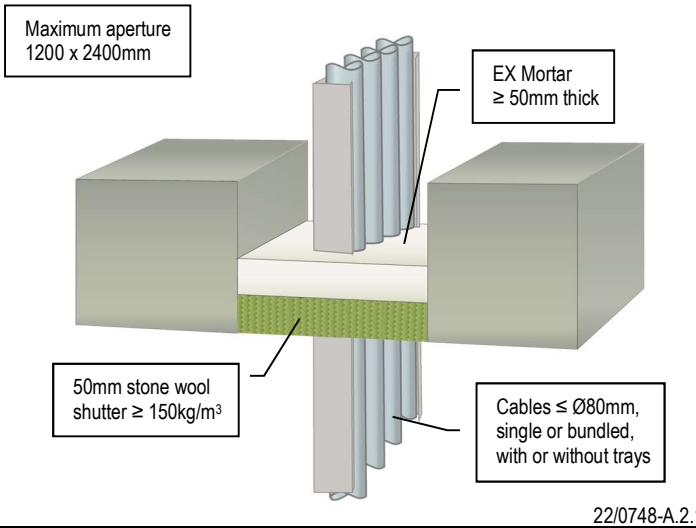
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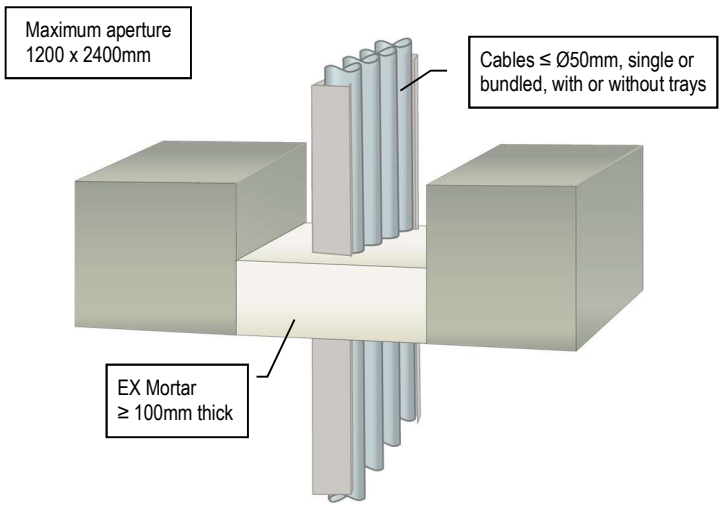


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CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 180)

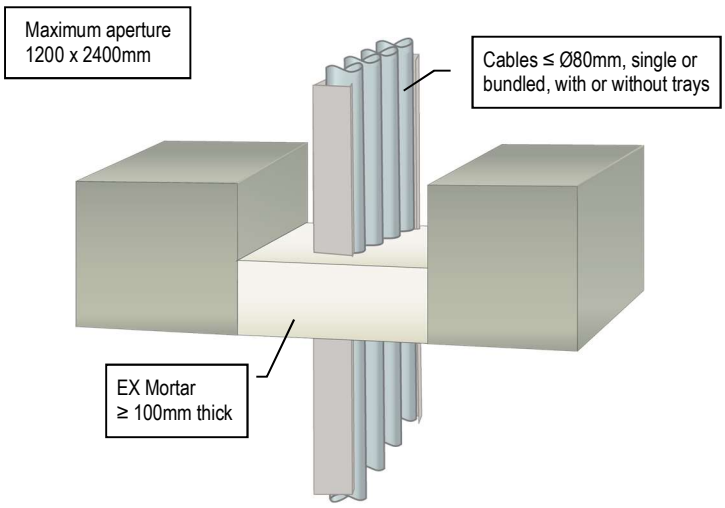
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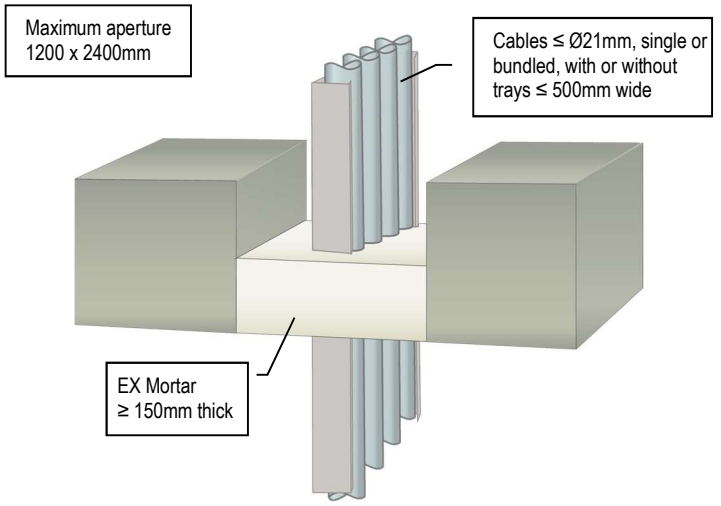
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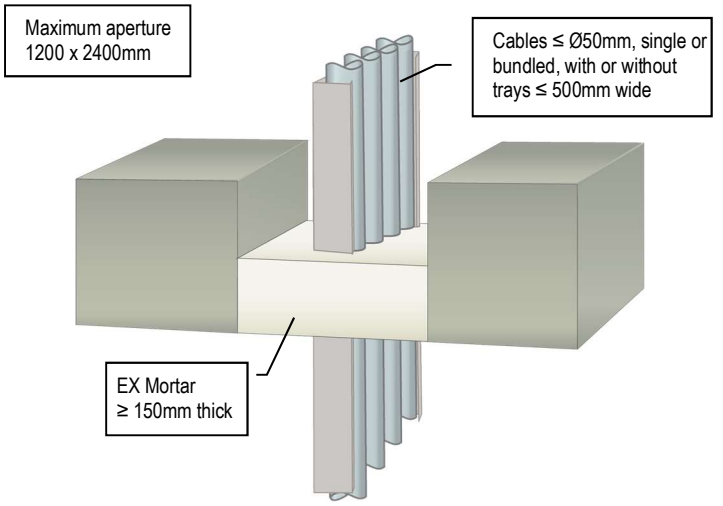
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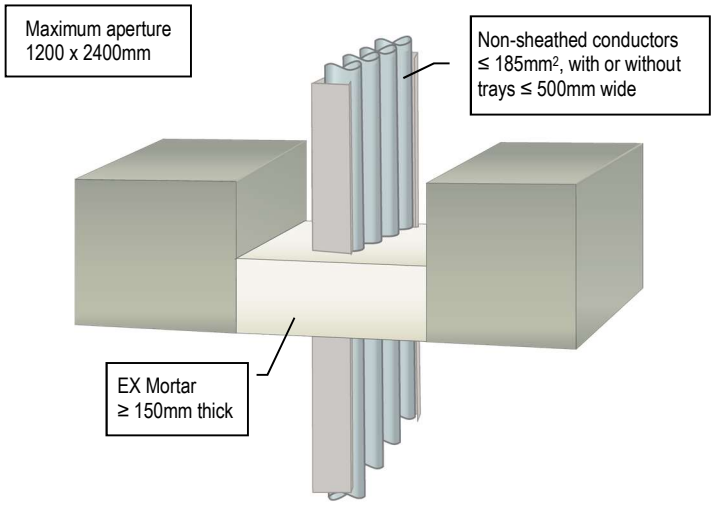
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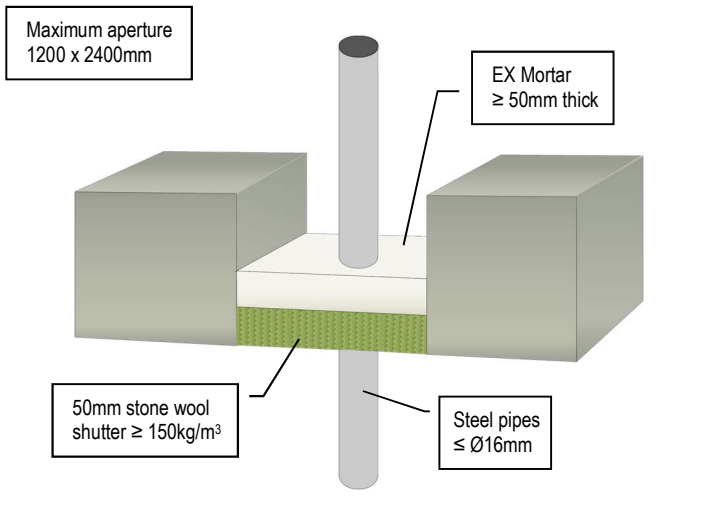
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STEEL PIPES FIRE RESISTANCE EI 180 C/U (E 180)

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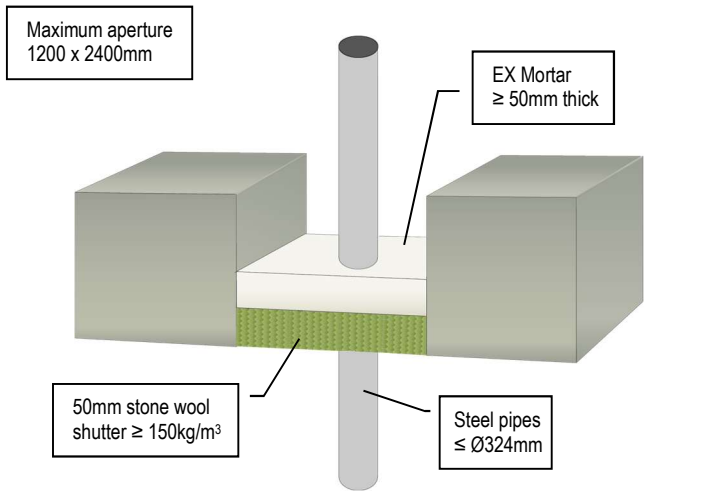


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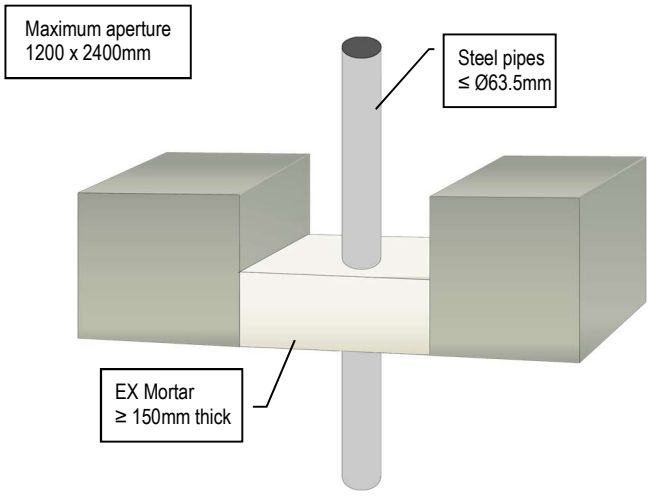
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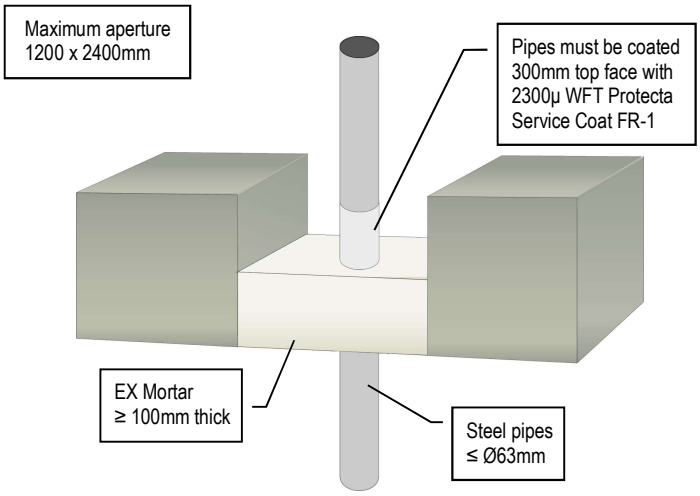
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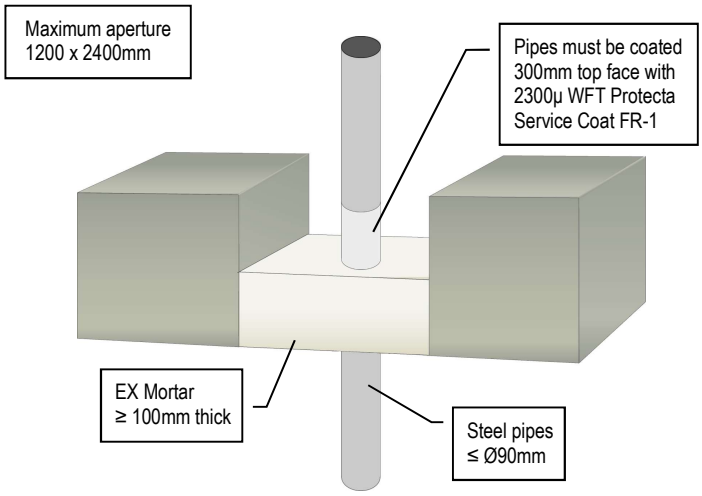
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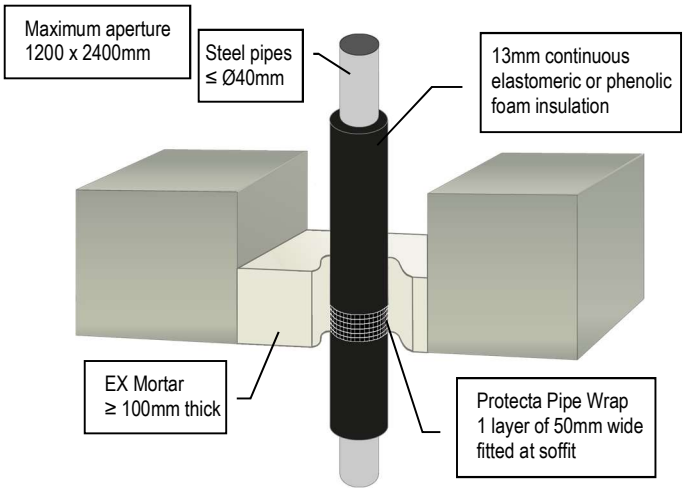
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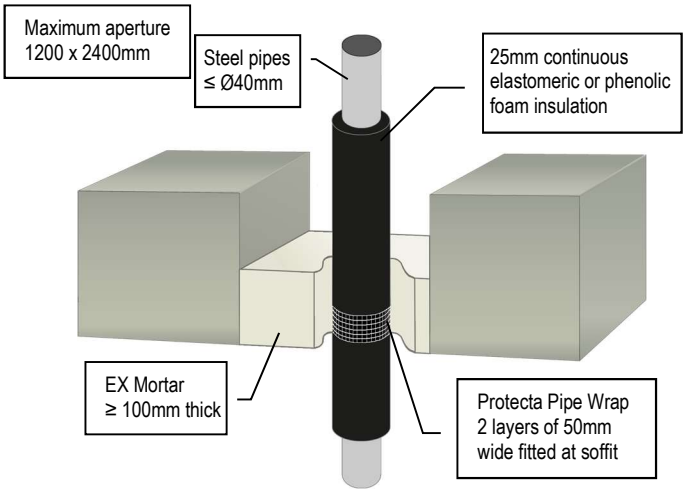
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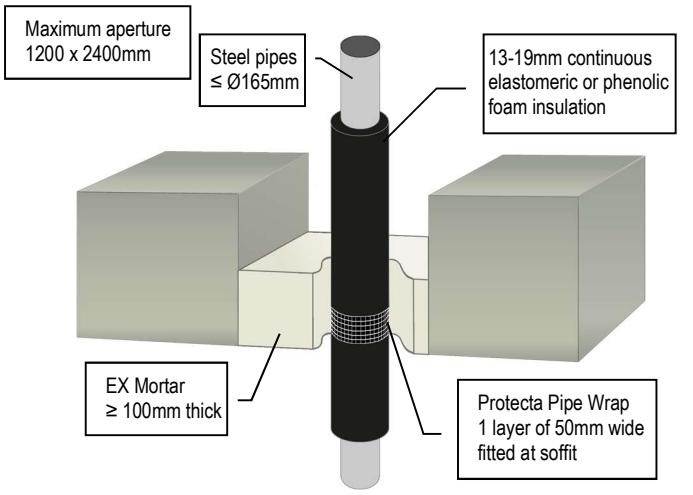


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INSULATED STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 180)

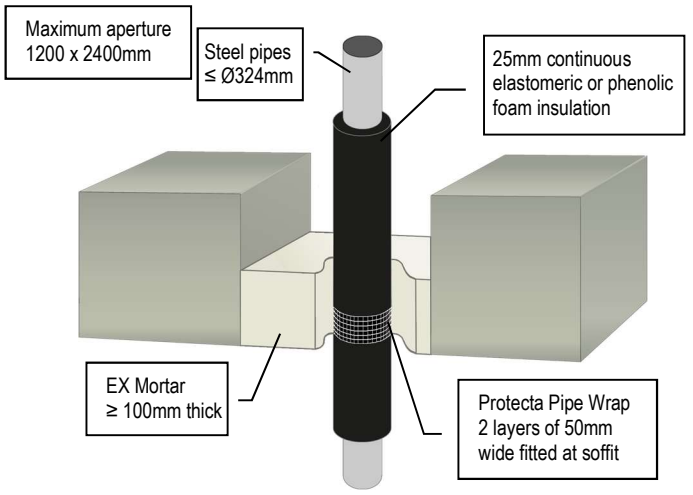
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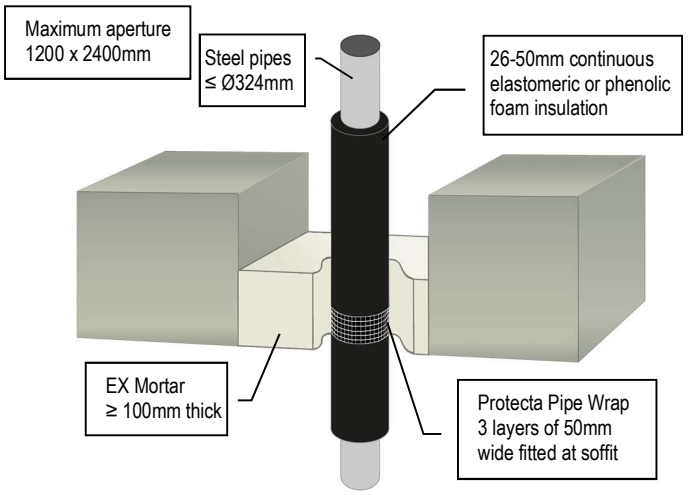
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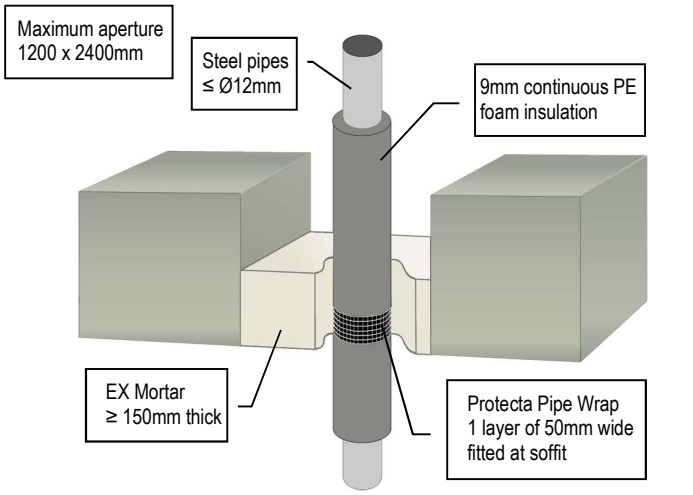
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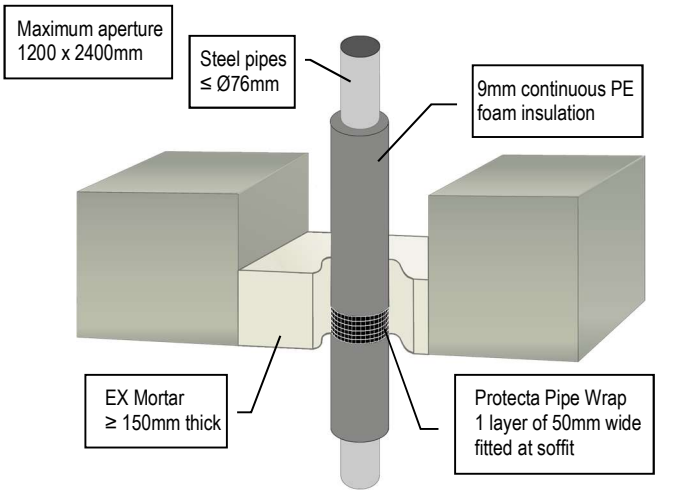
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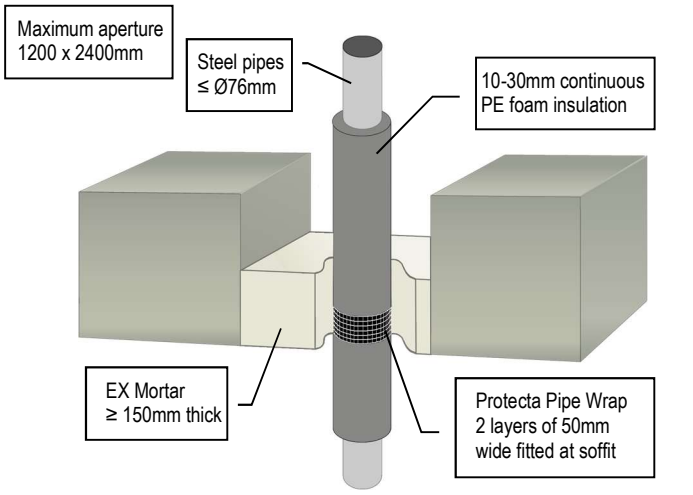
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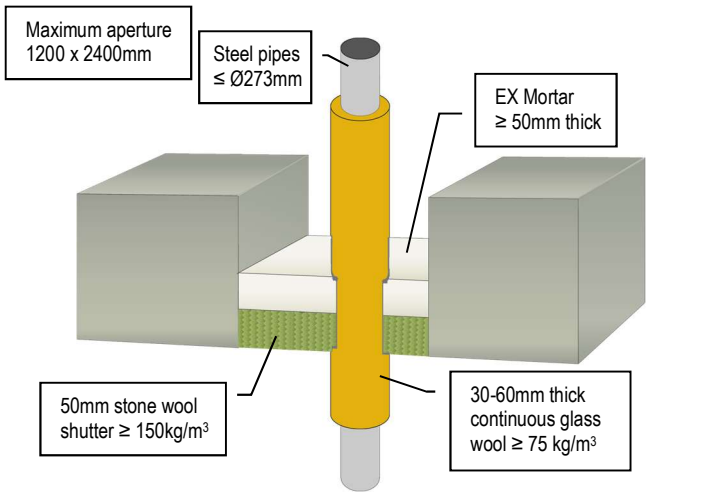


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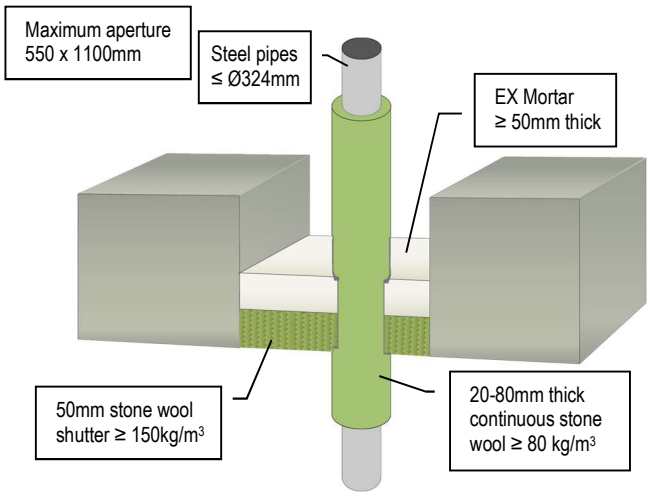
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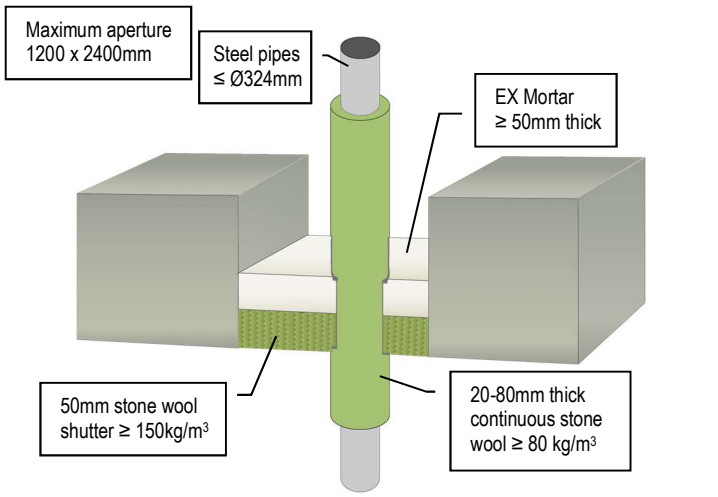
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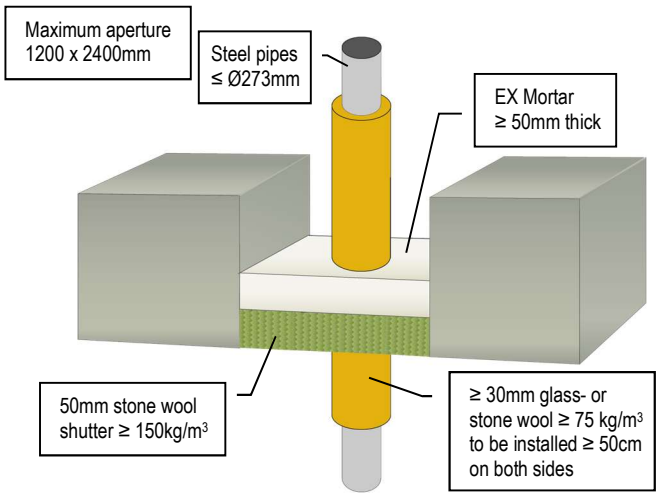
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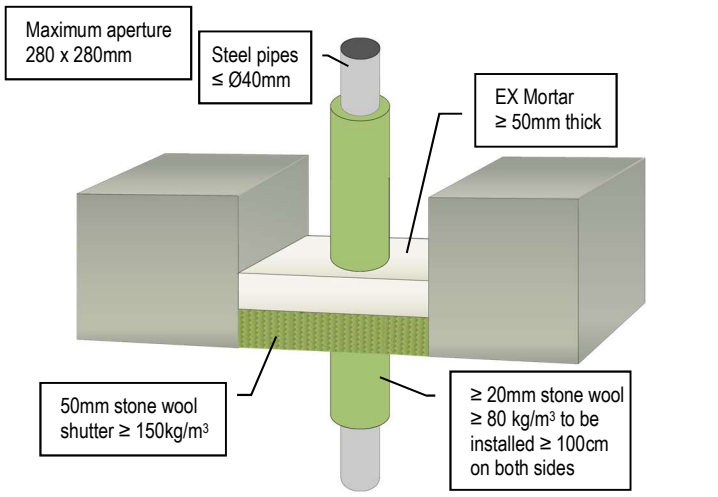
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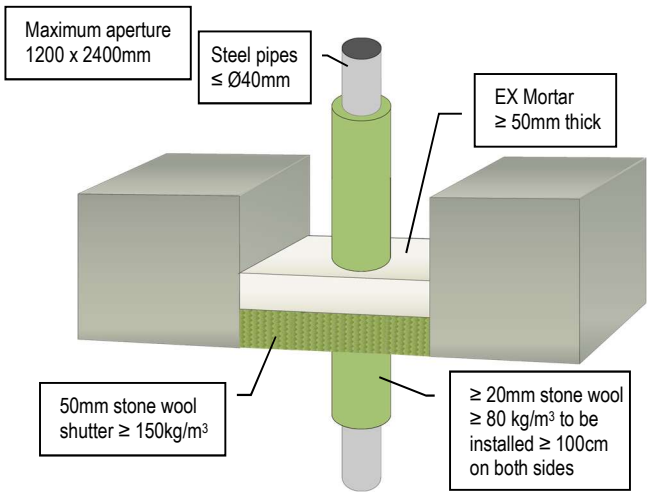
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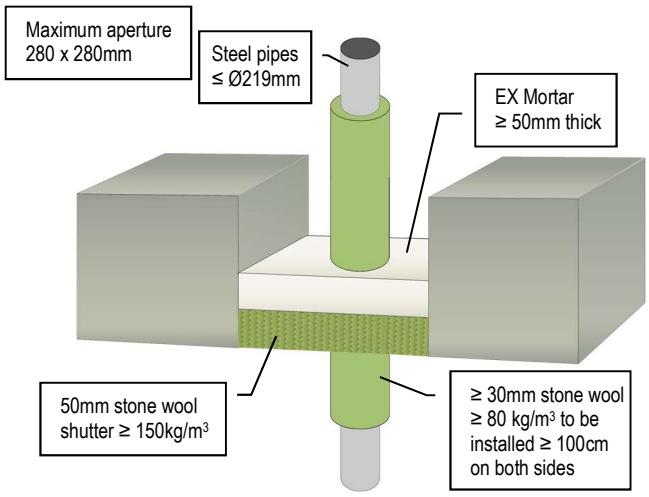


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STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 240)

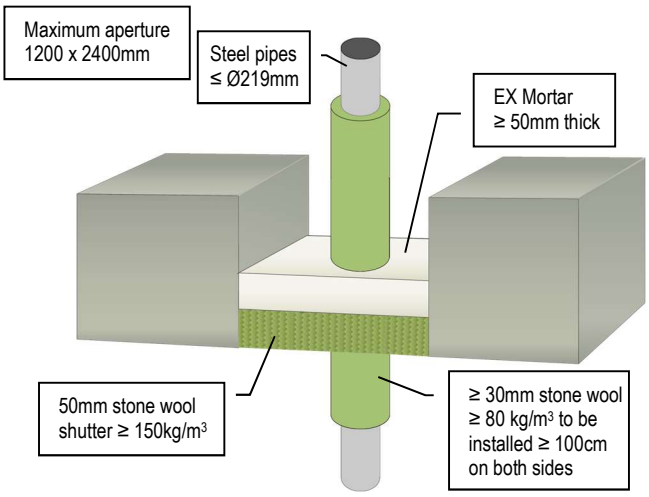
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22/0748-A.2.2-7

STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 180)

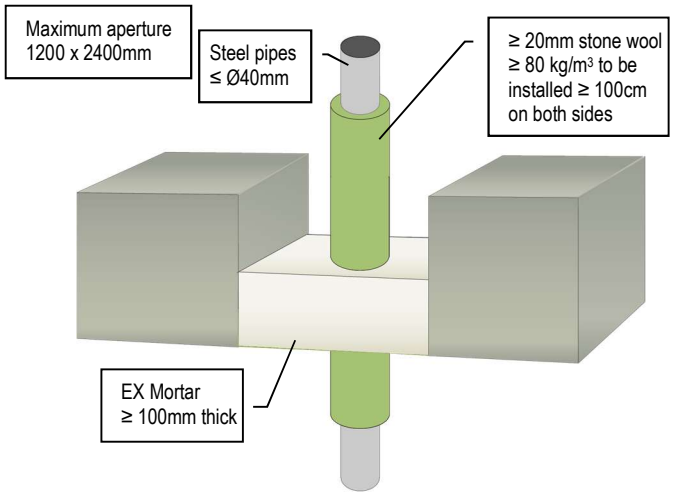
≥ 100MM RIGID FLOORS



22/0748-A.2.2-9

STEEL PIPES FIRE RESISTANCE EI 240 C/U (E 240)

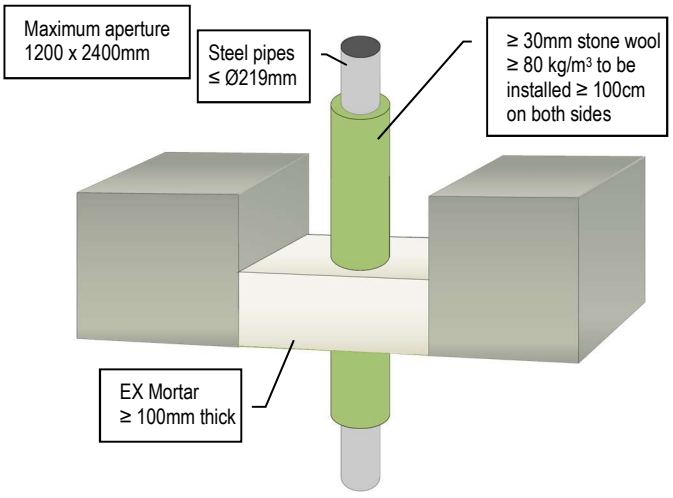
≥ 100MM RIGID FLOORS



22/0748-A.2.5-7

STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 240)

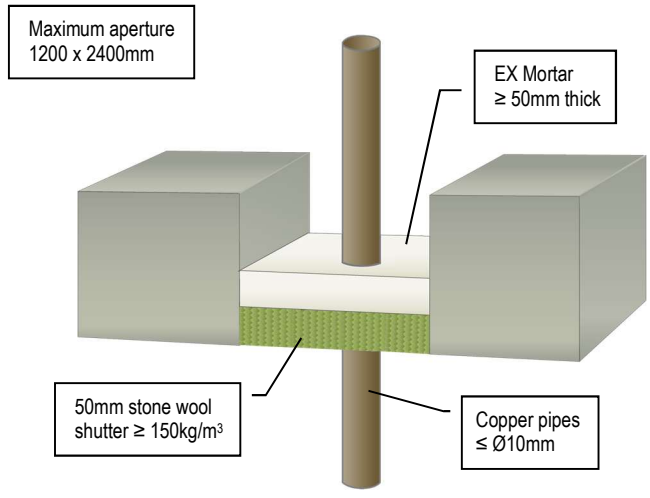
≥ 100MM RIGID FLOORS



22/0748-A.2.5-8

COPPER PIPES FIRE RESISTANCE EI 120 C/C (E 120)

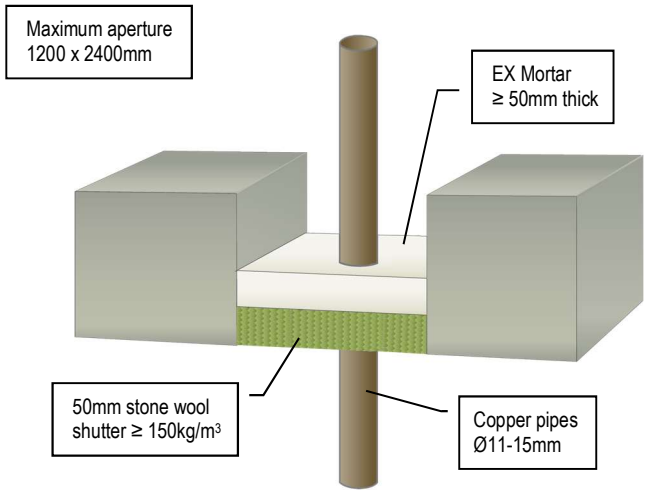
≥ 100MM RIGID FLOORS



22/0748-A.2.9-3

COPPER PIPES FIRE RESISTANCE EI 30 C/C (E 180)

≥ 100MM RIGID FLOORS

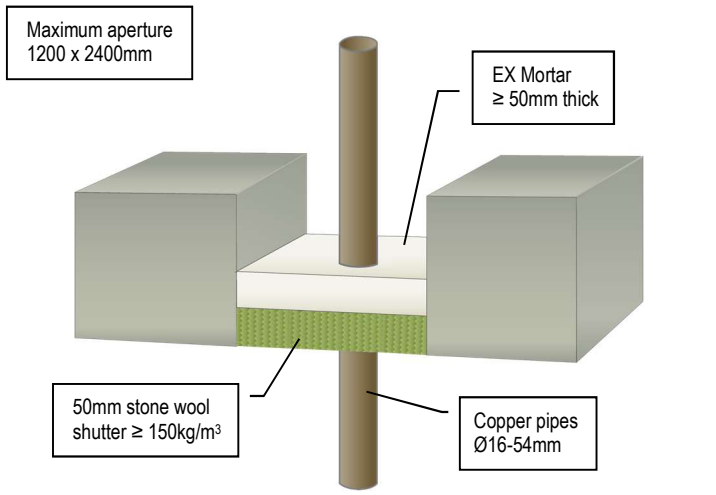


22/0748-A.2.9-4

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COPPER PIPES FIRE RESISTANCE E 180 C/C

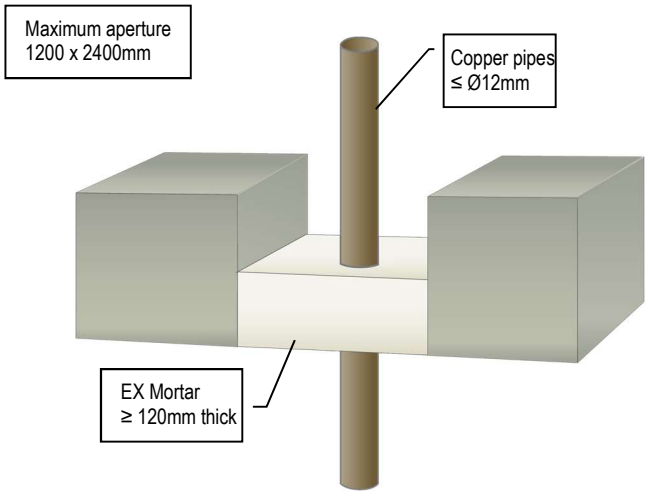
≥ 100MM RIGID FLOORS



22/0748-A.2.9-5

COPPER PIPES FIRE RESISTANCE EI 180 C/C (E 240)

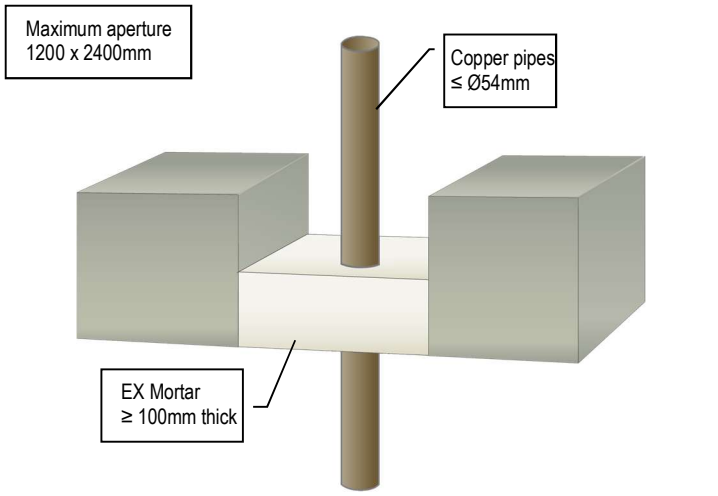
≥ 120MM RIGID FLOORS



22/0748-A.2.5-4

COPPER OR STEEL PIPES FIRE RESISTANCE EI 20 C/C (E 180)

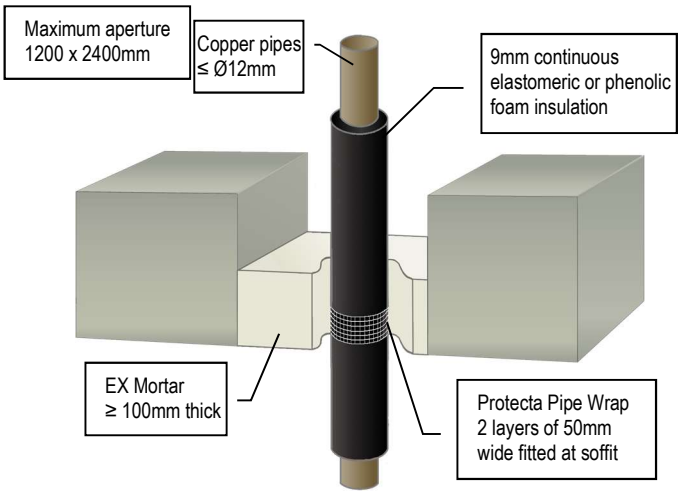
≥ 100MM RIGID FLOORS



22/0748-A.2.5-5

INSULATED COPPER PIPES FIRE RESISTANCE EI 240 C/C (E 240)

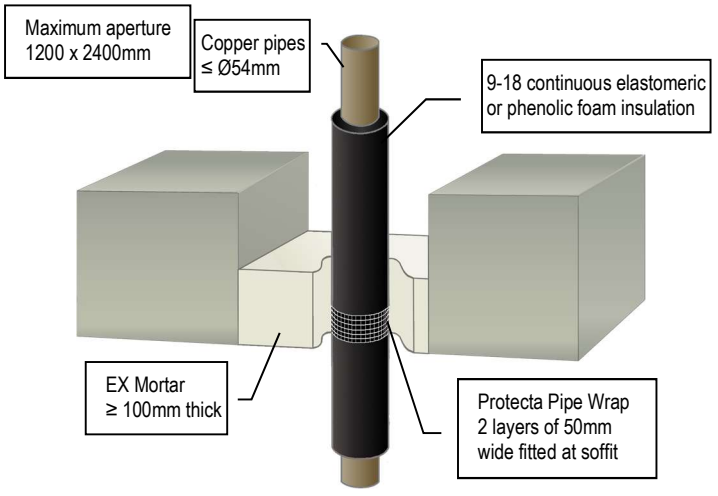
≥ 100MM RIGID FLOORS



22/0748-A.2.4-1

INSULATED COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 180)

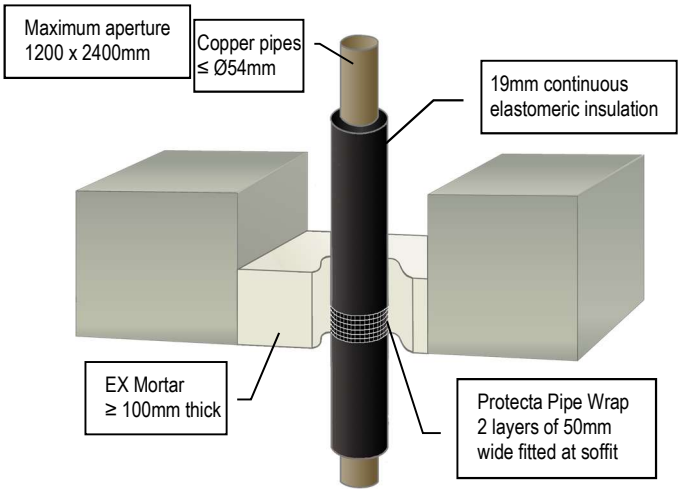
≥ 100MM RIGID FLOORS



22/0748-A.2.4-3

INSULATED COPPER PIPES FIRE RESISTANCE EI 120 C/C (E 180)

≥ 100MM RIGID FLOORS

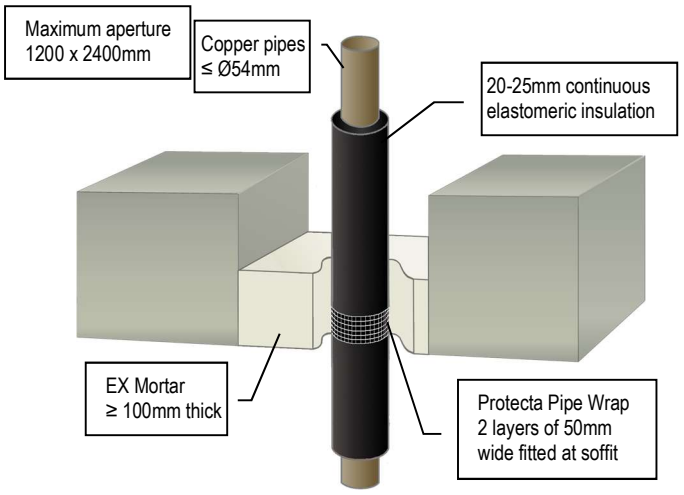


22/0748-A.2.4-2

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INSULATED COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 180)

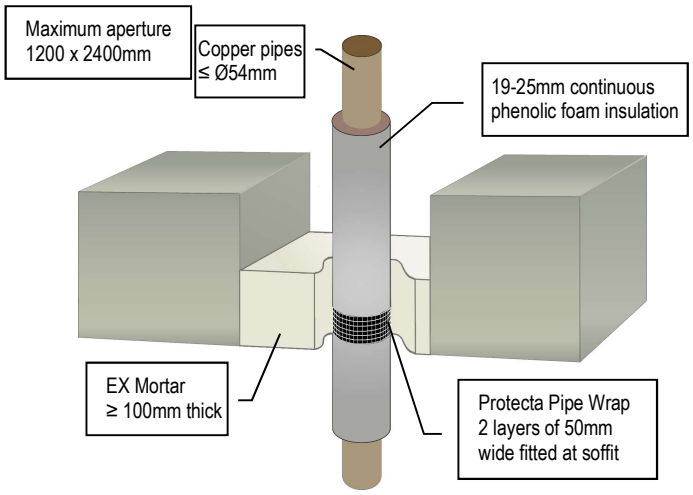
≥ 100MM RIGID FLOORS



22/0748-A.2.4-4

INSULATED COPPER PIPES FIRE RESISTANCE EI 120 C/C (E 180)

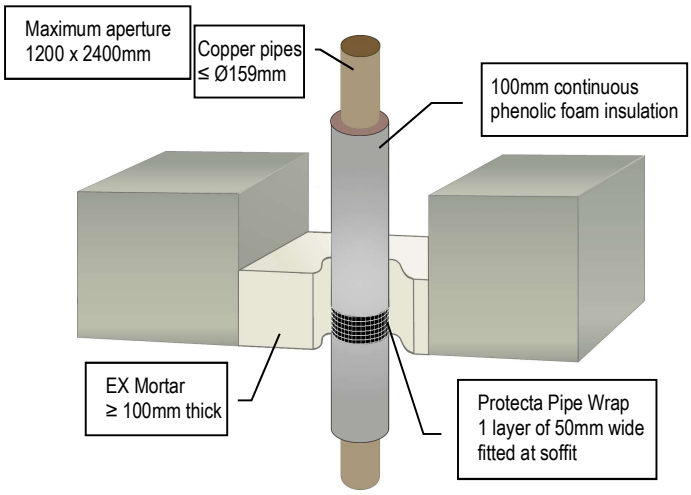
≥ 100MM RIGID FLOORS



22/0748-A.2.4-5

INSULATED COPPER PIPES FIRE RESISTANCE EI 45 C/C (E 45)

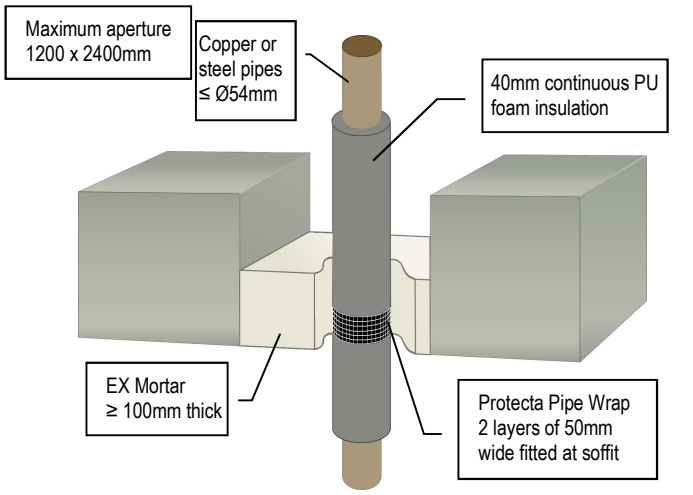
≥ 100MM RIGID FLOORS



22/0748-A.2.4-6

COPPER OR STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 120)

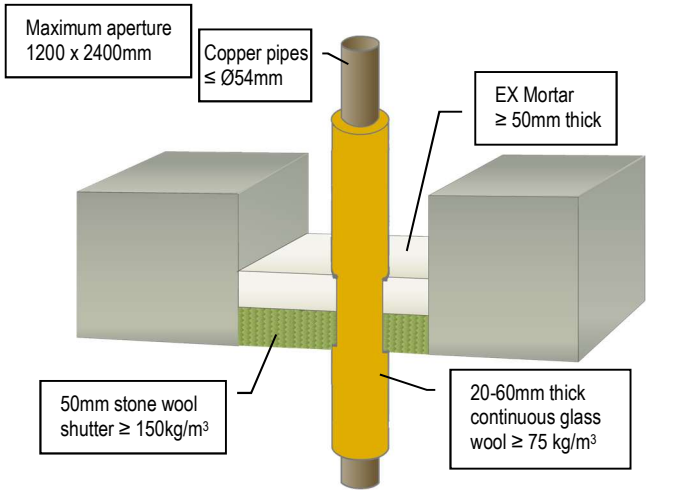
≥ 100MM RIGID FLOORS



22/0748-A.2.4-7

INSULATED COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 60)

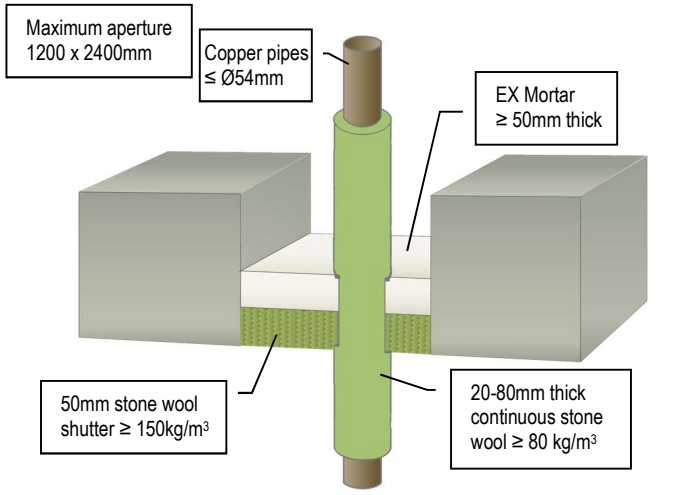
≥ 100MM RIGID FLOORS



22/0748-A.2.9-2

INSULATED COPPER PIPES FIRE RESISTANCE EI 120 C/C (E 180)

≥ 100MM RIGID FLOORS

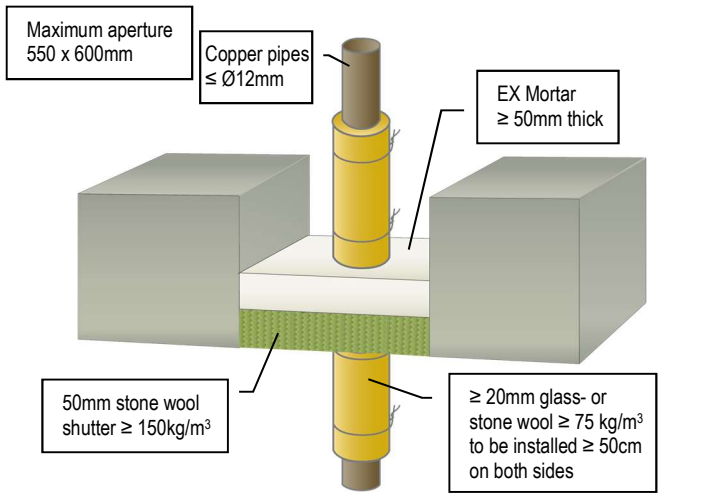


22/0748-A.2.9-1

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COPPER PIPES FIRE RESISTANCE EI 240 C/C (E 240)

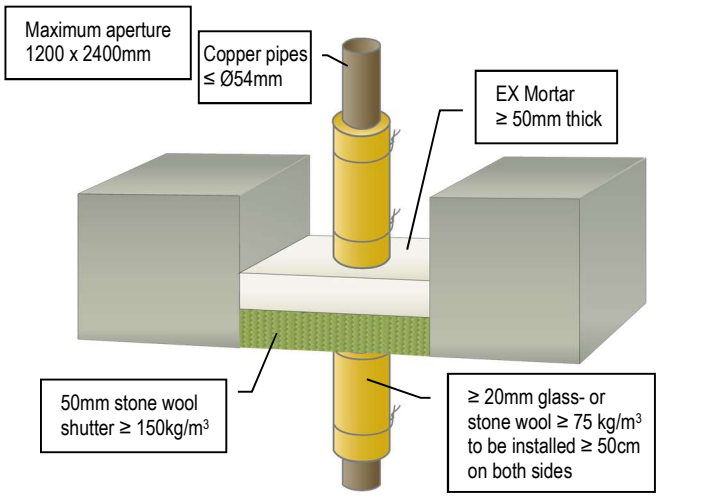
≥ 100MM RIGID FLOORS



22/0748-A.2.2-3

COPPER PIPES FIRE RESISTANCE EI 120 C/C (E 180)

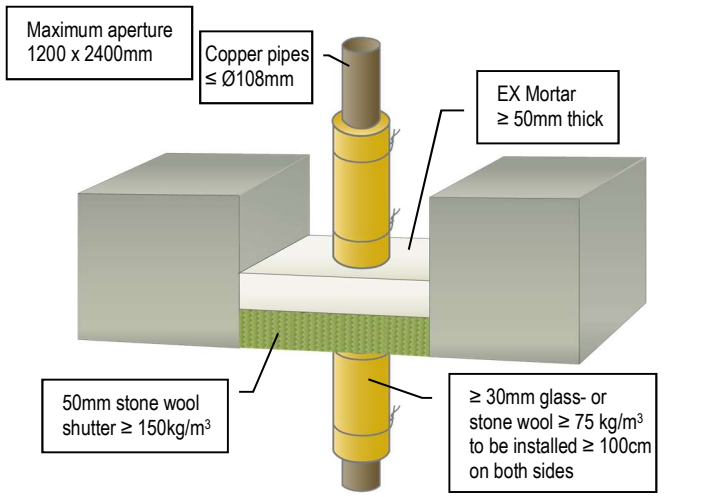
≥ 100MM RIGID FLOORS



22/0748-A.2.2-4

COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 180)

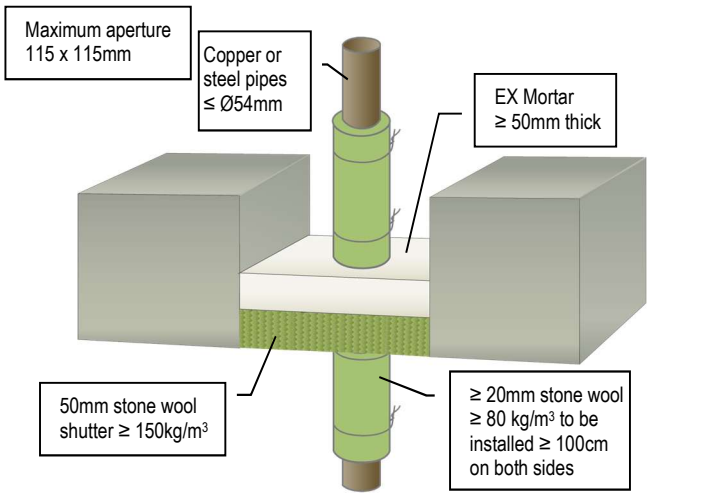
≥ 100MM RIGID FLOORS



22/0748-A.2.2-5

COPPER OR STEEL PIPES FIRE RESISTANCE EI 180 C/C (E 240)

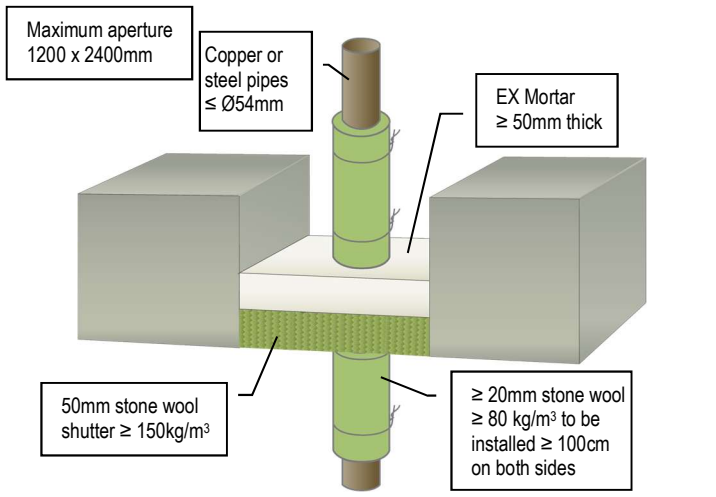
≥ 100MM RIGID FLOORS



22/0748-A.2.2-1

COPPER OR STEEL PIPES FIRE RESISTANCE EI 180 C/C (E 180)

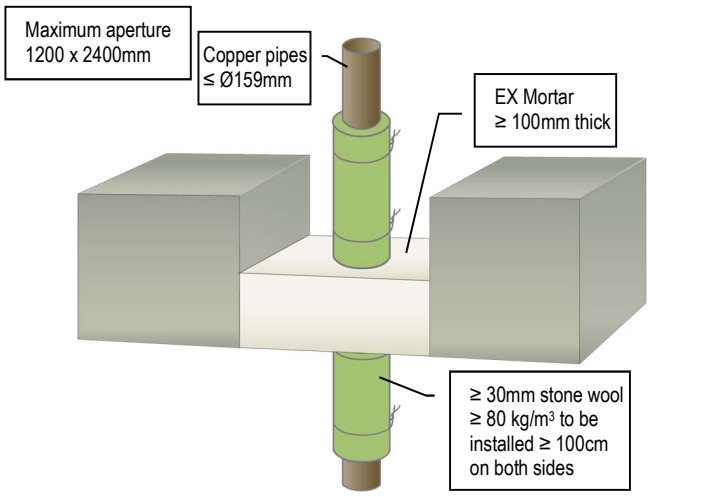
≥ 100MM RIGID FLOORS



22/0748-A.2.2-2

COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 240)

≥ 100MM RIGID FLOORS

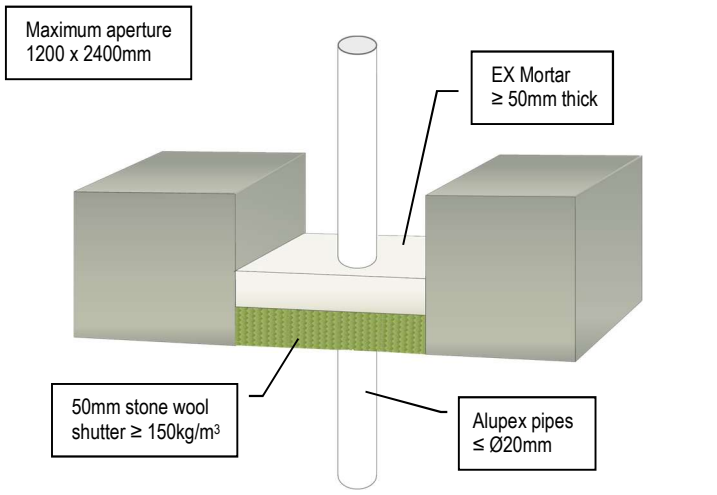


22/0748-A.2.5-5

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ALUPEX PIPES FIRE RESISTANCE EI 180 C/C (E 180)

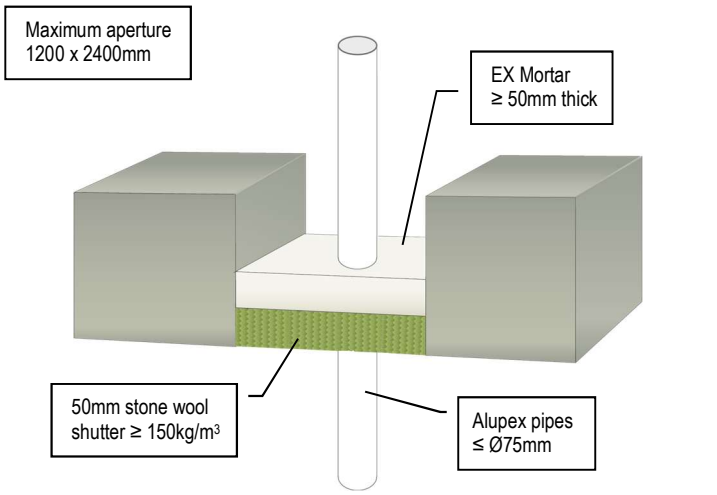
≥ 100MM RIGID FLOORS



22/0748-A.2.9-11

ALUPEX PIPES FIRE RESISTANCE EI 30 C/C (E 180)

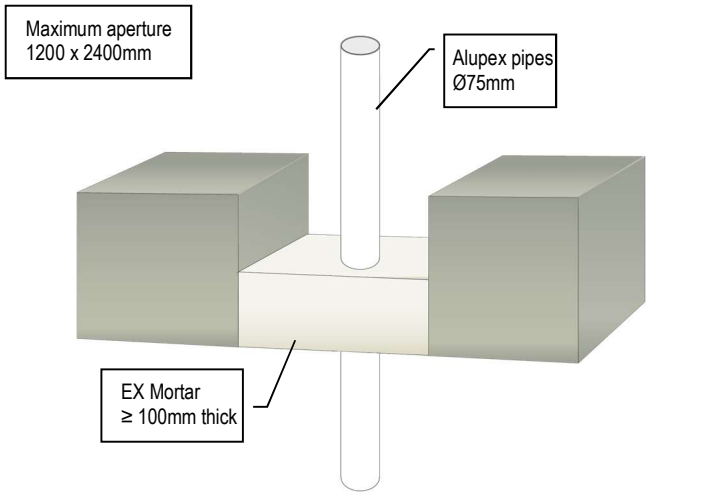
≥ 100MM RIGID FLOORS



22/0748-A.2.9-12

ALUPEX PIPES FIRE RESISTANCE EI 20 U/C (E 240)

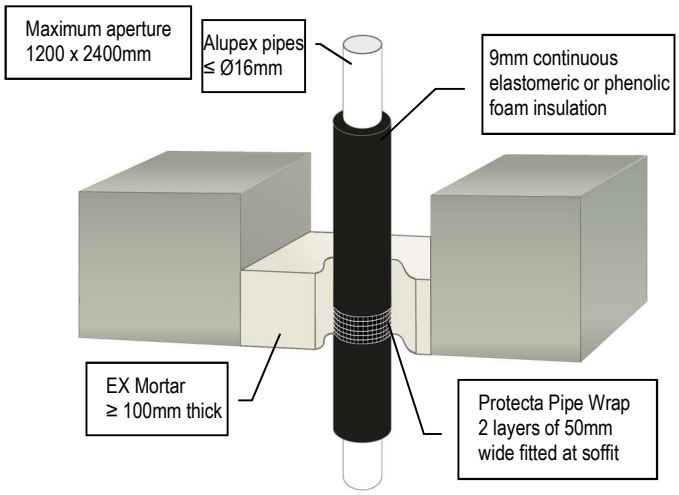
≥ 100MM RIGID FLOORS



22/0748-A.2.5-6

INSULATED ALUPEX PIPES FIRE RESISTANCE EI 240 C/C (E 240)

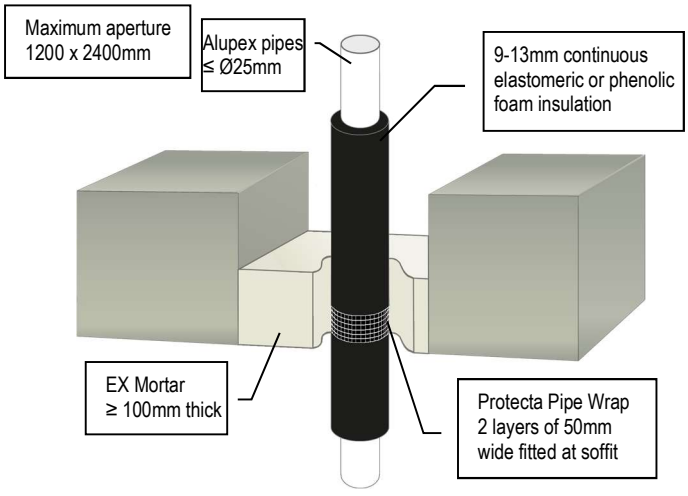
≥ 100MM RIGID FLOORS



22/0748-A.2.4-13

INSULATED ALUPEX PIPES FIRE RESISTANCE EI 180 C/C (E 240)

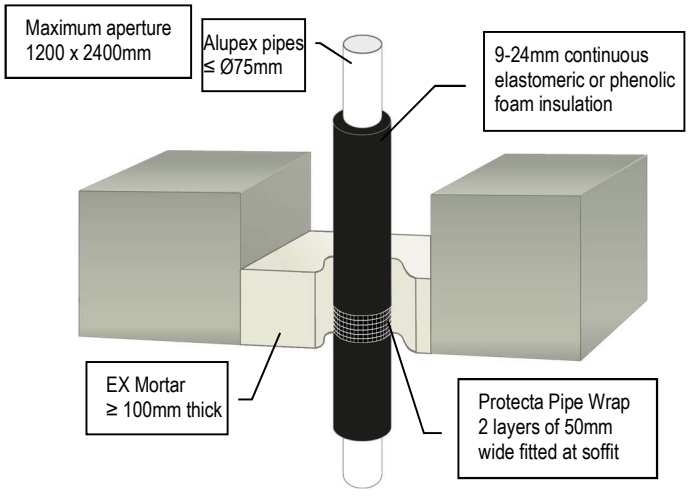
≥ 100MM RIGID FLOORS



22/0748-A.2.4-14

INSULATED ALUPEX PIPES FIRE RESISTANCE EI 90 C/C (E 180)

≥ 100MM RIGID FLOORS

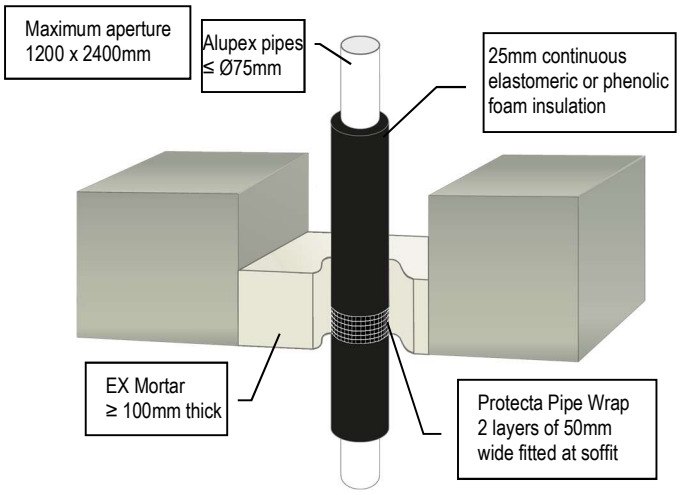


22/0748-A.2.4-15

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INSULATED ALUPEX PIPES FIRE RESISTANCE EI 180 C/C (E 180)

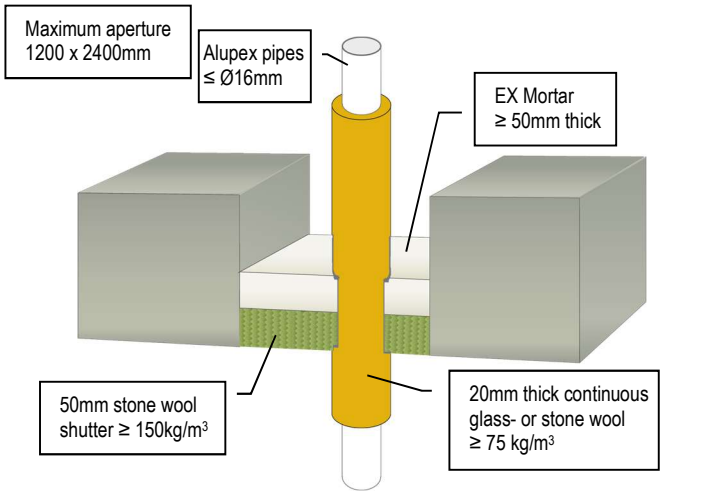
≥ 100MM RIGID FLOORS



22/0748-A.2.4-16

INSULATED ALUPEX PIPES FIRE RESISTANCE EI 180 C/C (E 180)

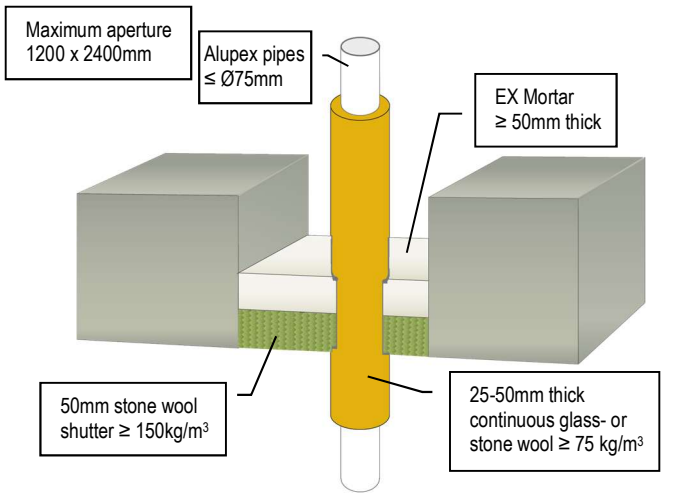
≥ 100MM RIGID FLOORS



22/0748-A.2.9-13

INSULATED ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)

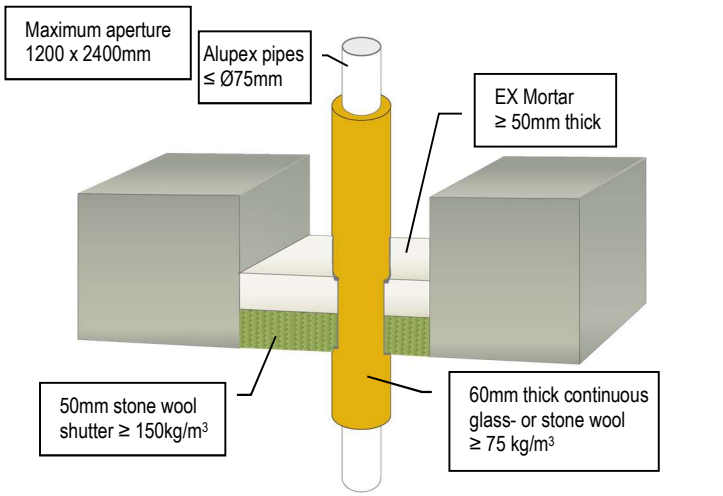
≥ 100MM RIGID FLOORS



22/0748-A.2.9-14

INSULATED ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

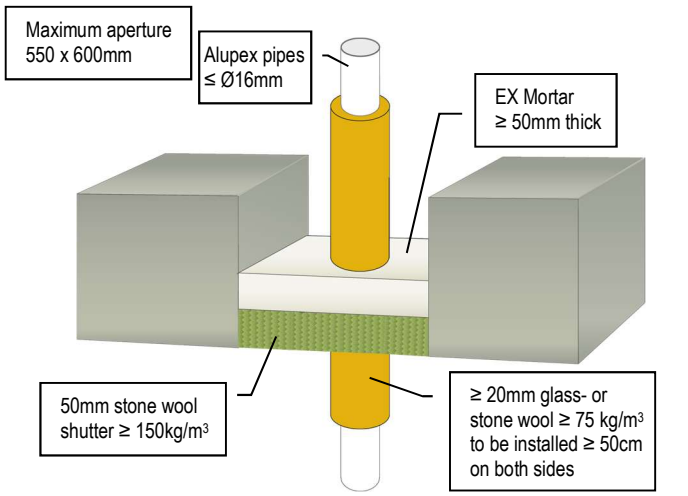
≥ 100MM RIGID FLOORS



22/0748-A.2.9-15

ALUPEX PIPES FIRE RESISTANCE EI 240 C/C (E 240)

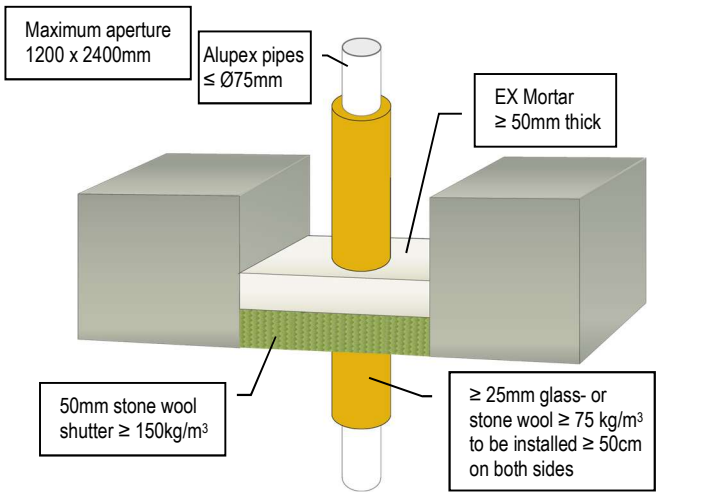
≥ 100MM RIGID FLOORS



22/0748-A.2.2-13

ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 180)

≥ 100MM RIGID FLOORS

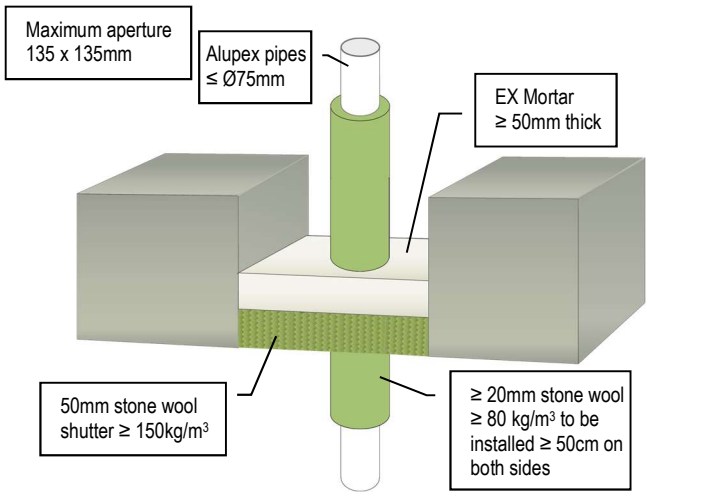


22/0748-A.2.2-14

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ALUPEX PIPES FIRE RESISTANCE EI 180 C/C (E 240)

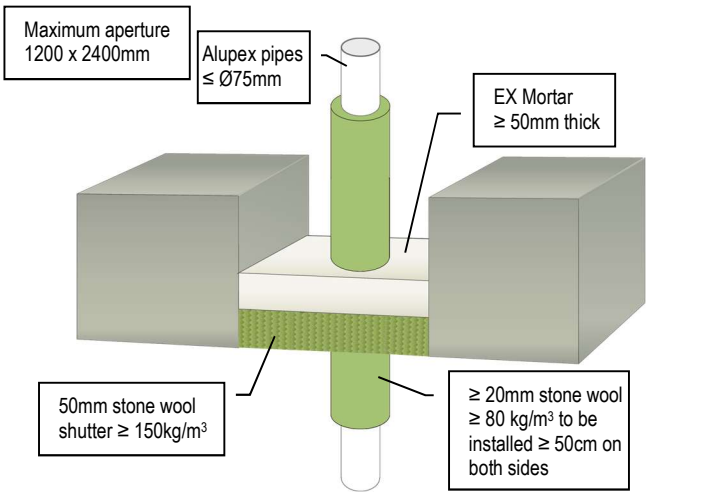
≥ 100MM RIGID FLOORS



22/0748-A.2.2-11

ALUPEX PIPES FIRE RESISTANCE EI 180 C/C (E 180)

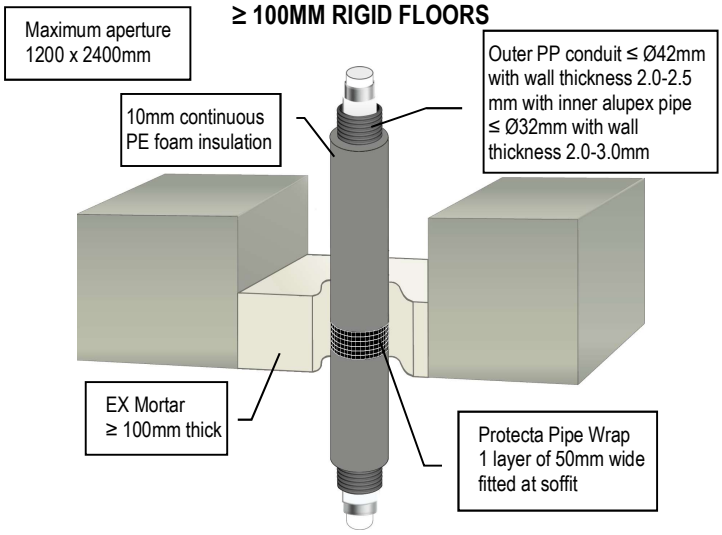
≥ 100MM RIGID FLOORS



22/0748-A.2.2-12

LK PAL UNIVERSAL PIPES FIRE RESISTANCE EI 120 C/C (E 240)

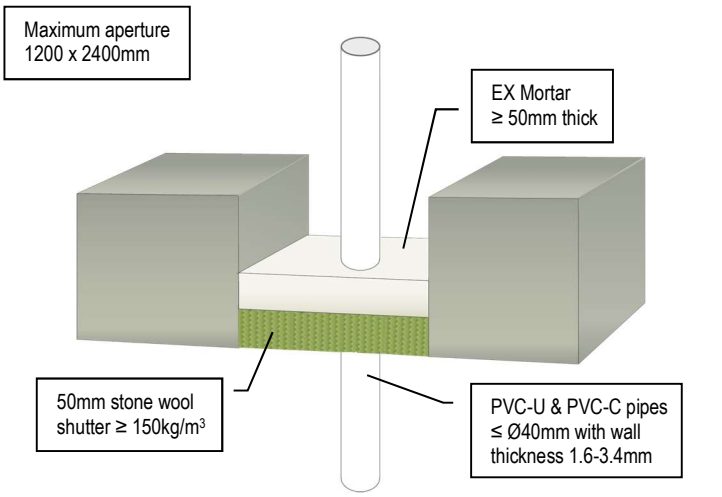
≥ 100MM RIGID FLOORS



22/0748-A.2.4-17

PVC PIPES FIRE RESISTANCE EI 120 U/C (E 120)

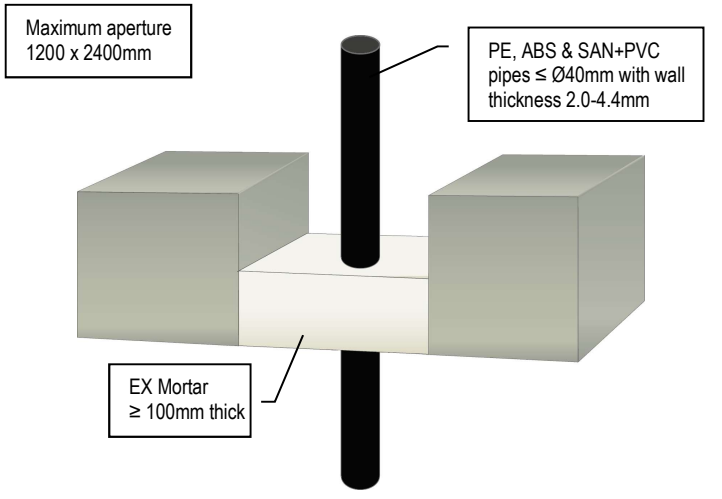
≥ 100MM RIGID FLOORS



22/0748-A.2.10-1

PE & ABS PIPES FIRE RESISTANCE EI 120 U/C (E 120)

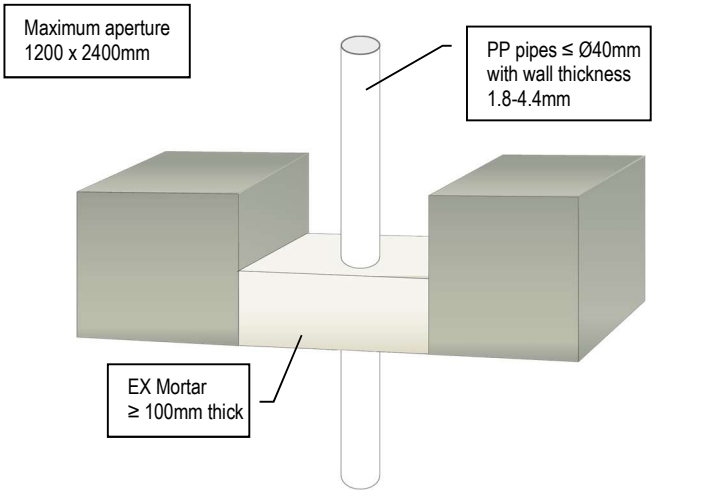
≥ 100MM RIGID FLOORS



22/0748-A.2.6-7

PP PIPES FIRE RESISTANCE EI 120 U/C (E 120)

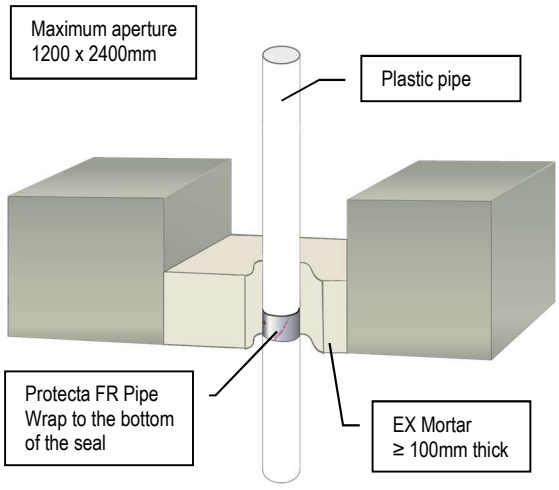
≥ 100MM RIGID FLOORS



22/0748-A.2.6-8

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PLASTIC PIPES IN U/C & C/C CONFIGURATIONS

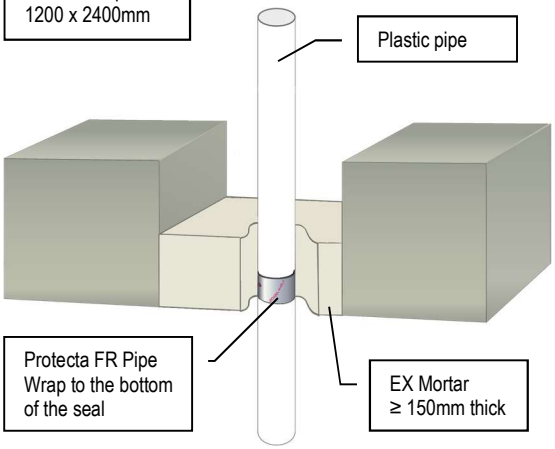


≥ 100MM RIGID FLOORS

Services	Pipe Wall Thickness	Pipe Wrap	Classification
≤ Ø40mm PVC-U & PVC-C	1.8 – 3.7mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 180 U/U)
≤ Ø40mm PE, ABS & SAN+PVC	2.4 – 3.7mm	50 x 1.8mm (1 layer)	EI 240 U/U (E 240 U/U)
≤ Ø40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø80mm PVC-U & PVC-C	1.8 – 5.3mm	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
≤ Ø110mm PVC-U & PVC-C	1.9 – 6.6mm	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
≤ Ø110mm PE, ABS & SAN+PVC	2.5 – 10.0mm	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
≤ Ø110mm PP	1.9 – 6.3mm	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
≤ Ø125mm PVC-U & PVC-C	3.5 – 7.4mm	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
≤ Ø125mm PE, ABS & SAN+PVC	3.9 – 11.4mm	50 x 7.2mm (4 layers)	EI 240 U/C (E 240 U/C)
≤ Ø125mm PP	3.4 – 11.4mm	50 x 7.2mm (4 layers)	EI 240 U/C (E 240 U/C)
≤ Ø160mm PVC-U & PVC-C	3.2mm	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)
≤ Ø160mm PVC-U & PVC-C	3.3 – 9.5mm	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)
≤ Ø160mm PVC-U & PVC-C	3.3 – 4.4mm	50 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)
≤ Ø160mm PVC-U & PVC-C	4.5mm	50 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
≤ Ø160mm PE, ABS & SAN+PVC	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)
≤ Ø160mm PP	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)

22/0748-A.2.6-1

PLASTIC PIPES IN U/U CONFIGURATION

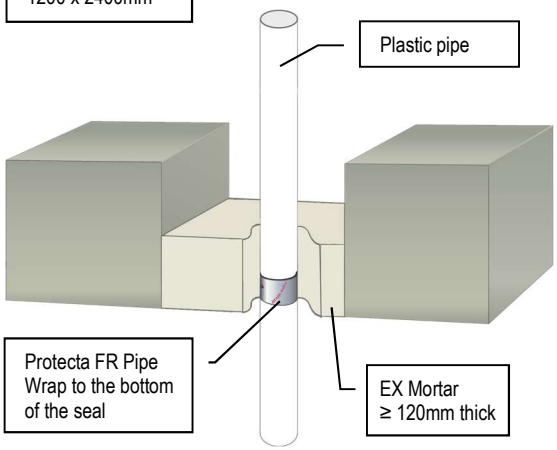


≥ 150MM RIGID FLOORS

Services	Pipe Wall Thickness	Pipe Wrap	Classification
≤ Ø40mm PVC-U & PVC-C	1.8 – 3.7mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø40mm PE, ABS & SAN+PVC	2.4 – 3.7mm	50 x 1.8mm (1 layer)	EI 240 U/U (E 240 U/U)
≤ Ø40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø110mm PVC-U & PVC-C	1.8 – 6.8mm	50 x 7.2mm (4 layers)	EI 60 U/U (E 60 U/U)
≤ Ø110mm PE, ABS & SAN+PVC	3.4 – 10.0mm	75 x 5.4mm (3 layers)	EI 240 U/U (E 240 U/U)
≤ Ø110mm PP	9.7 – 10.5mm	50 x 7.2mm (4 layers)	EI 120 U/U (E 120 U/U)
≤ Ø125mm PVC-U & PVC-C	1.8 – 7.4mm	50 x 7.2mm (4 layers)	EI 60 U/U (E 60 U/U)
Ø125mm PVC-U & PVC-C	7.4mm	50 x 7.2mm (4 layers)	EI 120 U/U (E 120 U/U)
Ø125mm PE, ABS & SAN+PVC	11.4mm	50 x 7.2mm (4 layers)	EI 240 U/U (E 240 U/U)
Ø125mm PP	11.4mm	50 x 7.2mm (4 layers)	EI 240 U/U (E 240 U/U)
Ø140mm PVC-U & PVC-C	6.5 – 8.3mm	75 x 10.8mm (6 layers)	EI 30 U/U (E 120 U/U)
Ø140mm PE, ABS & SAN+PVC	8.0 – 12.4mm	75 x 10.8mm (6 layers)	EI 120 U/U (E 240 U/U)
Ø140mm PP	12.8mm	75 x 7.2mm (4 layers)	EI 240 U/U (E 240 U/U)
≤ Ø160mm PVC-U & PVC-C	4.8 – 9.5mm	75 x 10.8mm (6 layers)	EI 30 U/U (E 120 U/U)
≤ Ø160mm PE, ABS & SAN+PVC	4.9 – 14.6mm	75 x 7.2mm (4 layers)	EI 120 U/U (E 120 U/U)
≤ Ø160mm PE, ABS & SAN+PVC	3.9 – 14.6mm	75 x 18.0mm (10 layers)	EI 120 U/U (E 240 U/U)
Ø160mm PP	14.6mm	75 x 7.2mm (4 layers)	EI 240 U/U (E 240 U/U)

22/0748-A.2.8-1

LARGE PVC PLASTIC PIPES



≥ 120MM RIGID FLOORS

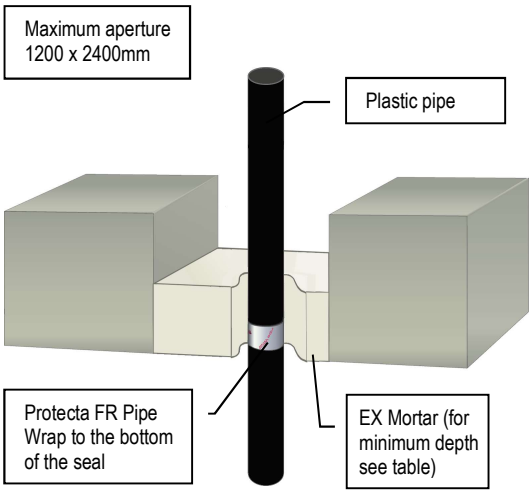
Services	Pipe Wall Thickness	Pipe Wrap	Classification
Ø160mm PVC-U & PVC-C	4.5 – 9.5mm	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)
Ø161-199mm PVC-U & PVC-C	4.5 – 11.9mm	75 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)
Ø200mm PVC-U & PVC-C	4.9 – 11.9mm	75 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
Ø201-314mm PVC-U & PVC-C	4.9 – 11.9mm	75 x 18.0mm (10 layers)	EI 120 C/C (E 120 C/C)
Ø315mm PVC-U & PVC-C	7.7mm	75 x 18.0mm (10 layers)	EI 120 C/C (E 120 C/C)
Ø315mm PVC-U & PVC-C	7.8 – 12.1mm	75 x 18.0mm (10 layers)	EI 90 C/C (E 90 C/C)
Ø316-399mm PVC-U & PVC-C	7.7 – 15.3mm	75 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)
Ø400mm PVC-U & PVC-C	15.3mm	75 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)

22/0748-A.2.8-2

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LARGE PE PLASTIC PIPES

RIGID FLOORS

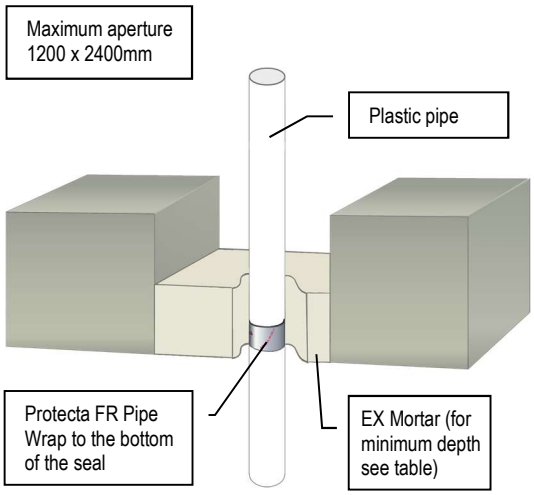


Services	Pipe Wall Thickness	Mortar & Floor Depth	Pipe Wrap	Classification
Ø161-199mm PE, ABS, SAN+PVC	4.9 – 18.2mm	150mm	75 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)
Ø200mm PE, ABS & SAN+PVC	6.2 – 18.2mm	120mm	75 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
Ø250mm PE, ABS & SAN+PVC	7.8mm	100mm	75 x 12.6mm (7 layers)	EI 180 C/C (E 180 C/C)
Ø201-315mm PE, ABS, SAN+PVC	4.9 – 18.7mm	150mm	75 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)

22/0748-A.2.8-4

LARGE PP PLASTIC PIPES

RIGID FLOORS

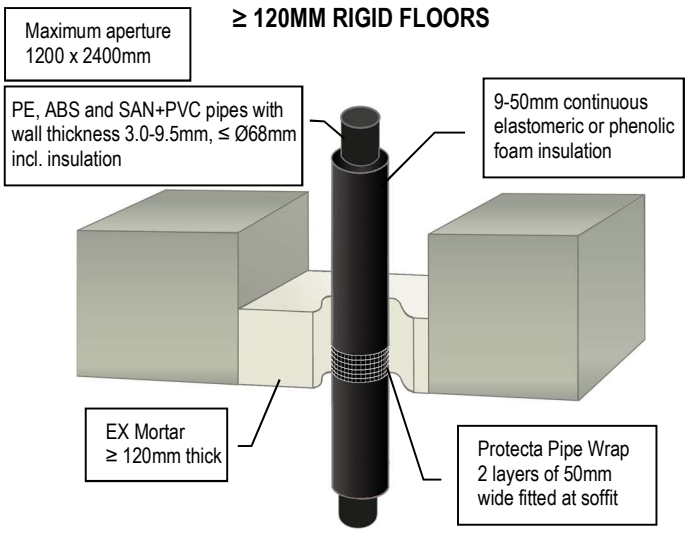


Services	Pipe Wall Thickness	Mortar & Floor Depth	Pipe Wrap	Classification
Ø161-200mm PP	4.9 – 18.2mm	120mm	75 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
Ø201-315mm PP	4.9 – 7.7mm	150mm	75 x 18.0mm (10 layers)	EI 180 C/C (E 180 C/C)
Ø201-315mm PP	7.8 – 28.6mm	150mm	75 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
Ø316-399mm PP	7.7 – 28.6mm	150mm	75 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)
Ø400mm PP	22.7mm	150mm	75 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)

22/0748-A.2.8-3

INSULATED PE PIPES FIRE RESISTANCE EI 240 C/C (E 240)

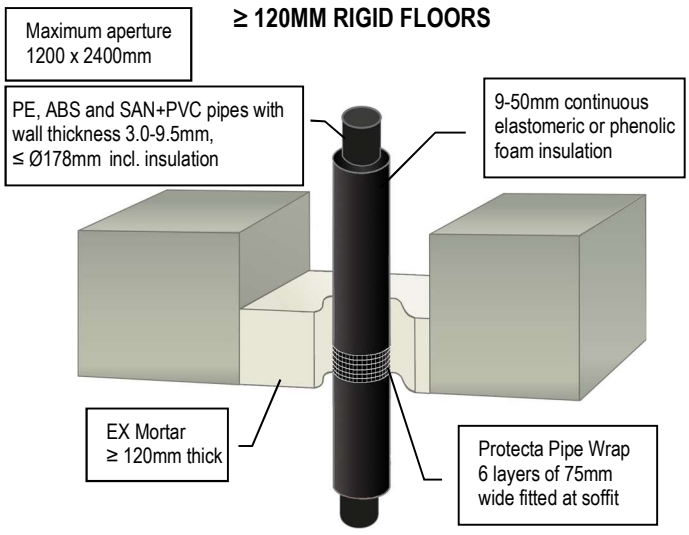
≥ 120MM RIGID FLOORS



22/0748-A.3.1-1

INSULATED PE PIPES FIRE RESISTANCE EI 240 C/C (E 240)

≥ 120MM RIGID FLOORS



22/0748-A.3.1-2

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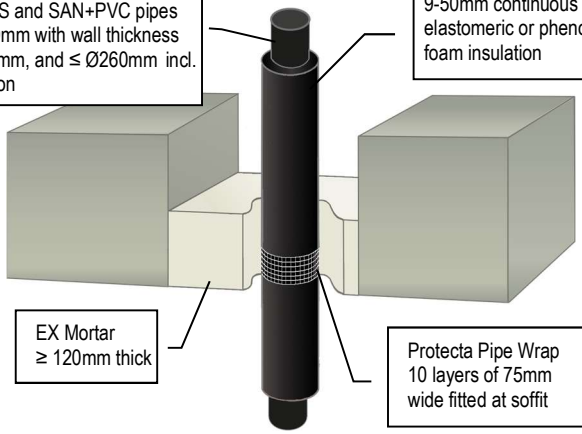
INSULATED PE PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 120MM RIGID FLOORS

Maximum aperture 1200 x 2400mm

PE, ABS and SAN+PVC pipes ≤ Ø160mm with wall thickness 3.0-9.5mm, and ≤ Ø260mm incl. insulation

9-50mm continuous elastomeric or phenolic foam insulation



EX Mortar ≥ 120mm thick

Protecta Pipe Wrap 10 layers of 75mm wide fitted at soffit

22/0748-A.3.1-3

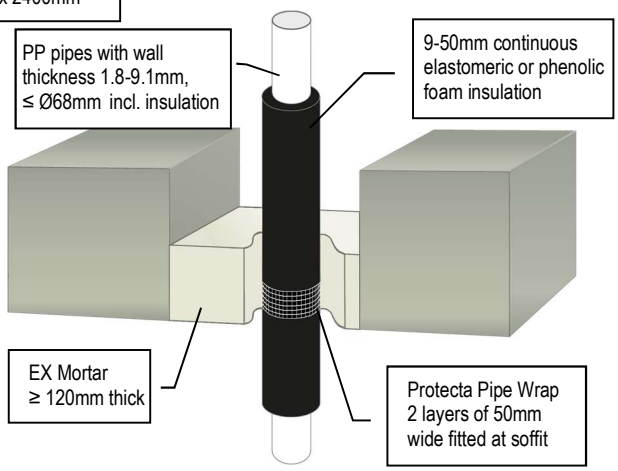
INSULATED PP PIPES FIRE RESISTANCE EI 180 C/C (E 240)

≥ 120MM RIGID FLOORS

Maximum aperture 1200 x 2400mm

PP pipes with wall thickness 1.8-9.1mm, ≤ Ø68mm incl. insulation

9-50mm continuous elastomeric or phenolic foam insulation



EX Mortar ≥ 120mm thick

Protecta Pipe Wrap 2 layers of 50mm wide fitted at soffit

22/0748-A.3.1-4

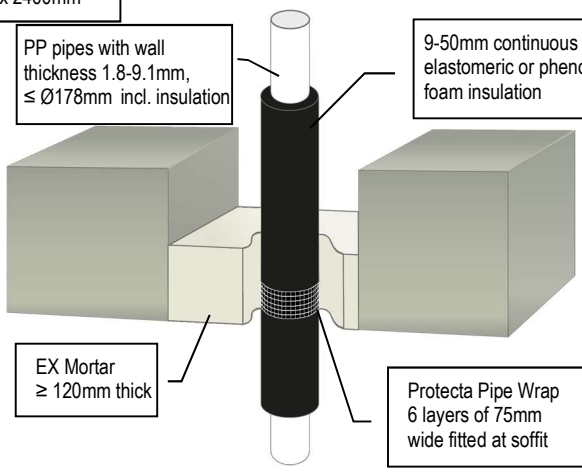
INSULATED PP PIPES FIRE RESISTANCE EI 240 C/C (E 240)

≥ 120MM RIGID FLOORS

Maximum aperture 1200 x 2400mm

PP pipes with wall thickness 1.8-9.1mm, ≤ Ø178mm incl. insulation

9-50mm continuous elastomeric or phenolic foam insulation



EX Mortar ≥ 120mm thick

Protecta Pipe Wrap 6 layers of 75mm wide fitted at soffit

22/0748-A.3.1-5

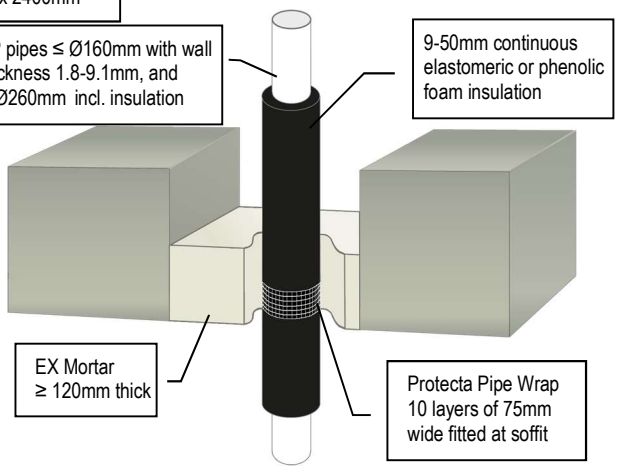
INSULATED PP PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 120MM RIGID FLOORS

Maximum aperture 1200 x 2400mm

PP pipes ≤ Ø160mm with wall thickness 1.8-9.1mm, and ≤ Ø260mm incl. insulation

9-50mm continuous elastomeric or phenolic foam insulation



EX Mortar ≥ 120mm thick

Protecta Pipe Wrap 10 layers of 75mm wide fitted at soffit

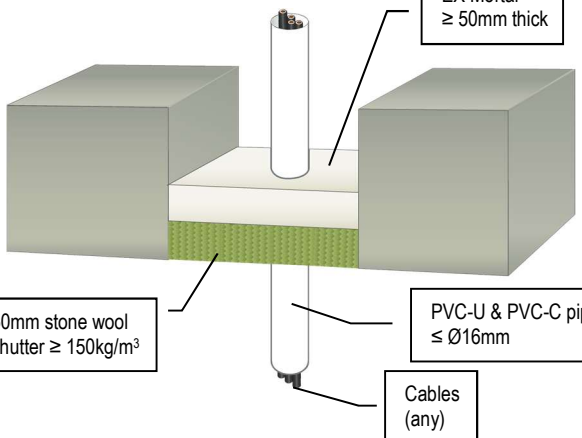
22/0748-A.3.1-6

PLASTIC CONDUITS FIRE RESISTANCE EI 180 C/U (E 180)

≥ 100MM RIGID FLOORS

Maximum aperture 1200 x 2400mm

EX Mortar ≥ 50mm thick



50mm stone wool shutter ≥ 150kg/m³

PVC-U & PVC-C pipes ≤ Ø16mm

Cables (any)

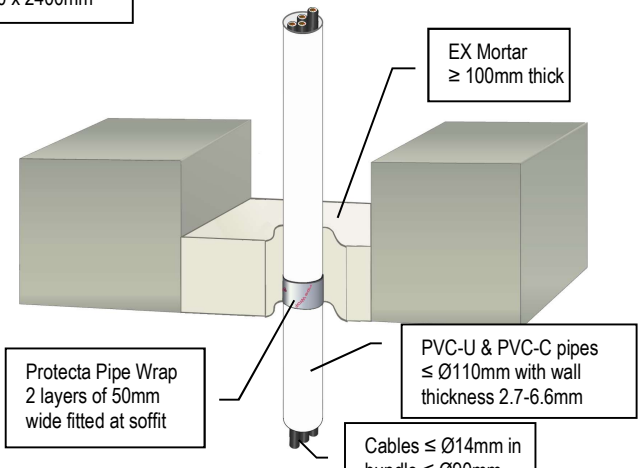
22/0748-A.2.1-5

PLASTIC CONDUITS FIRE RESISTANCE EI 120 U/C (E 120)

≥ 100MM RIGID FLOORS

Maximum aperture 1200 x 2400mm

EX Mortar ≥ 100mm thick



Protecta Pipe Wrap 2 layers of 50mm wide fitted at soffit

PVC-U & PVC-C pipes ≤ Ø110mm with wall thickness 2.7-6.6mm

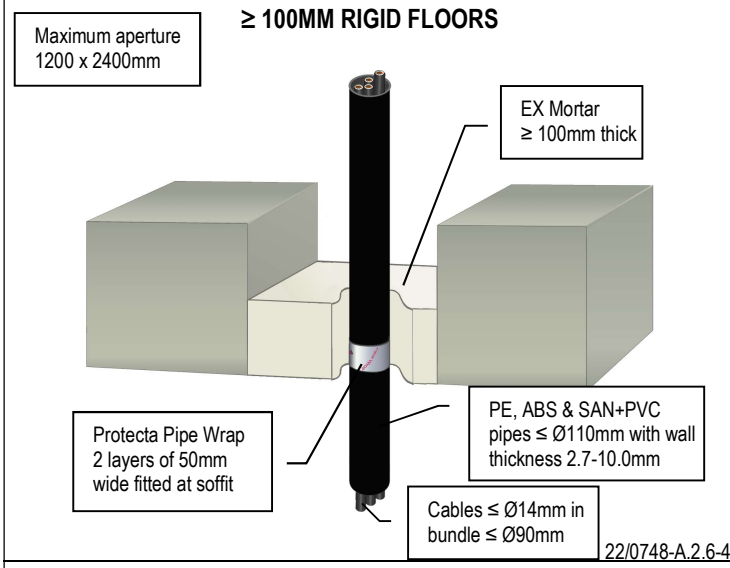
Cables ≤ Ø14mm in bundle ≤ Ø90mm

22/0748-A.2.6-3

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PLASTIC CONDUITS FIRE RESISTANCE EI 60 U/C (E 120)

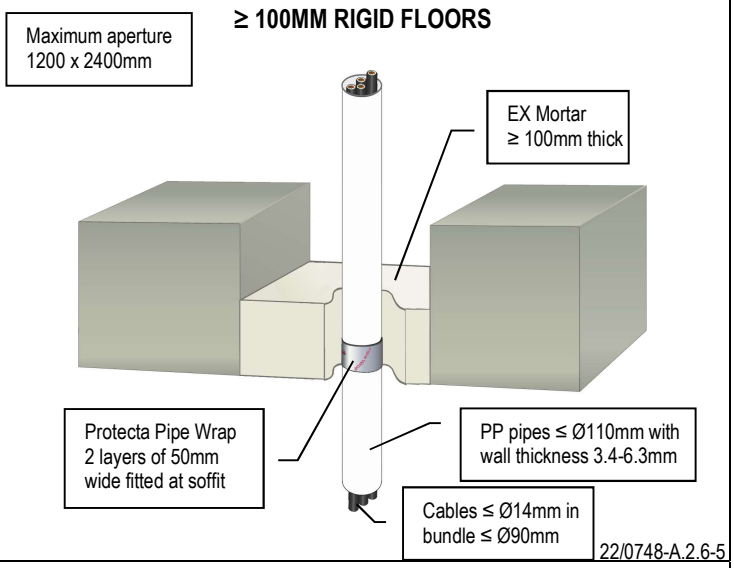
≥ 100MM RIGID FLOORS



22/0748-A.2.6-4

PLASTIC CONDUITS FIRE RESISTANCE EI 60 U/C (E 60)

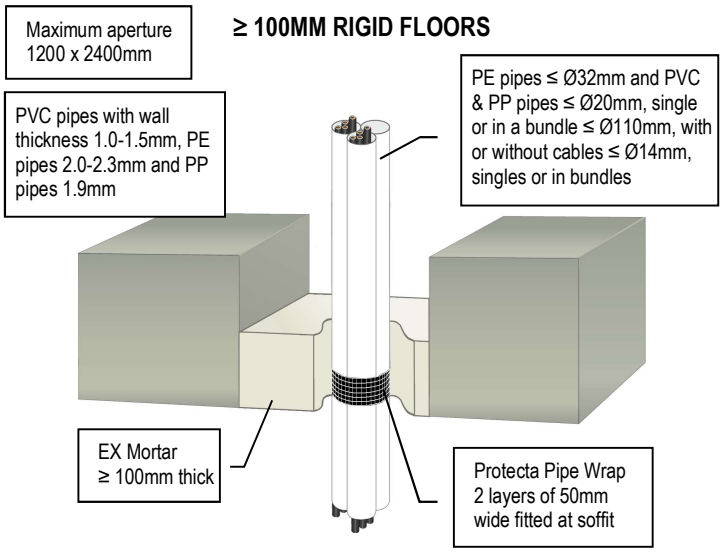
≥ 100MM RIGID FLOORS



22/0748-A.2.6-5

PLASTIC PIPES & CONDUITS FIRE RESISTANCE EI 60 U/U (E 90)

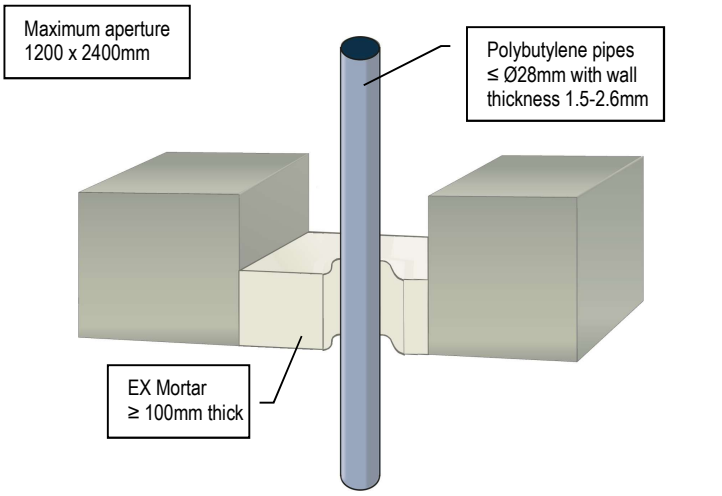
≥ 100MM RIGID FLOORS



22/0748-A.2.6-2

POLYBUTYLENE PIPES FIRE RESISTANCE EI 60 C/C (E 60)

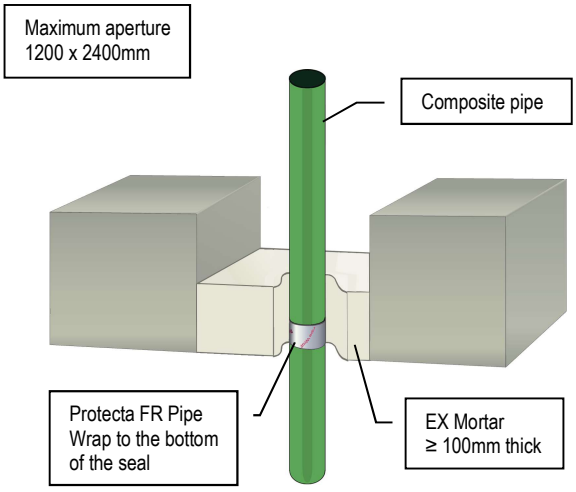
≥ 100MM RIGID FLOORS



22/0748-A.2.6-6

COMPOSITE AQUATHERM GREEN SDR9 PLASTIC PIPES FIRE RESISTANCE EI 240

≥ 100MM RIGID FLOORS



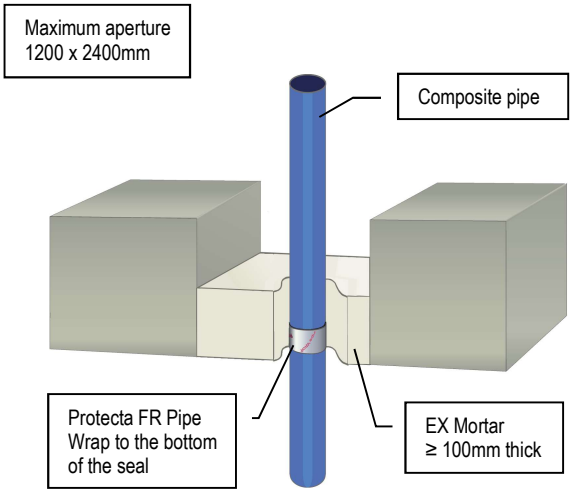
Services	FR Pipe Wrap	Classification
Ø 32mm Aquatherm Green SDR9 pipes	50 x 1.8mm (1 layer)	EI 240 C/C (E 240 C/C)
Ø 40mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 240 C/C (E 240 C/C)
Ø 50mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 240 C/C (E 240 C/C)
Ø 63mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 240 C/C (E 240 C/C)
Ø 75mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 240 C/C (E 240 C/C)
Ø 90mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 240 C/C (E 240 C/C)
Ø 110mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 240 C/C (E 240 C/C)

22/0748-A.2.7-5

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COMPOSITE BLUEPOWER PLASTIC PIPES FIRE RESISTANCE EI 120 – 240

≥ 100MM RIGID FLOORS

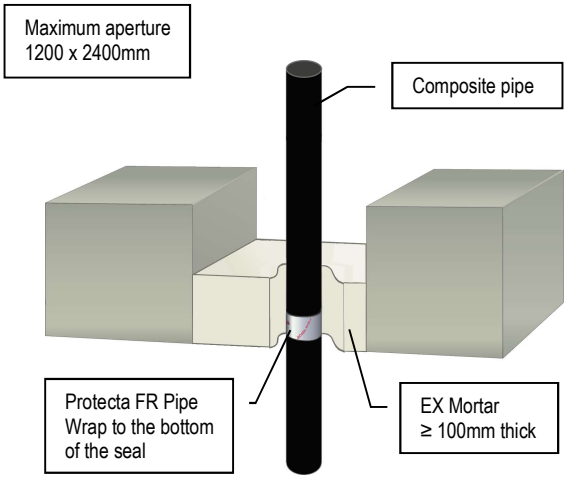


Services	FR Pipe Wrap	Classification
Ø 32mm BluePower pipes	50 x 3.6mm (2 layers)	EI 240 U/U (E 240 U/U)
Ø 40mm BluePower pipes	50 x 3.6mm (2 layers)	EI 240 U/U (E 240 U/U)
Ø 50mm BluePower pipes	50 x 3.6mm (2 layers)	EI 240 U/U (E 240 U/U)
Ø 75mm BluePower pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm BluePower pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm BluePower pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm BluePower pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm BluePower pipes	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)

22/0748-A.2.7-8

COMPOSITE GEBERIT SILENT-PP PLASTIC PIPES FIRE RESISTANCE EI 120

≥ 100MM RIGID FLOORS

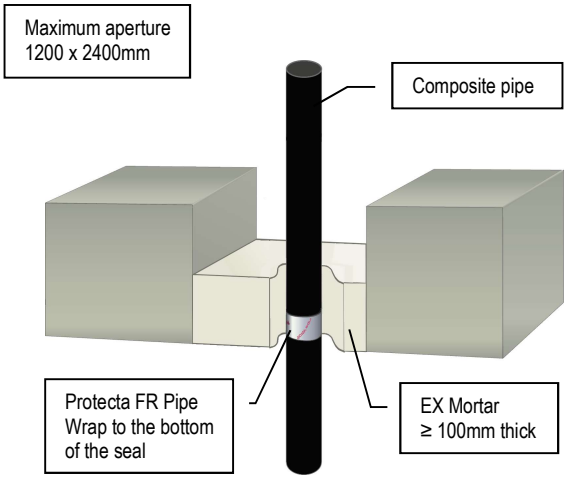


Services	FR Pipe Wrap	Classification
Ø 32mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 40mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 50mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Geberit Silent-PP pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm Geberit Silent-PP pipes	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)

22/0748-A.2.7-7

COMPOSITE HULIOT ULTRA SILENT PLASTIC PIPES FIRE RESISTANCE EI 180-240

≥ 100MM RIGID FLOORS



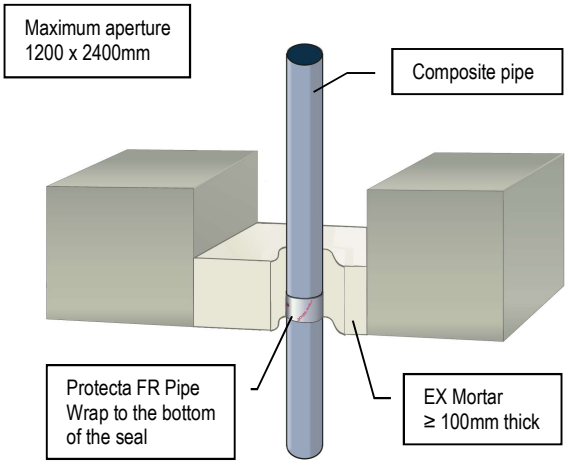
Services	FR Pipe Wrap	Classification
Ø 32mm Huliot Ultra Silent pipes	50 x 3.6mm (2 layers)	EI 240 U/U (E 240 U/U)
Ø 40mm Huliot Ultra Silent pipes	50 x 3.6mm (2 layers)	EI 240 U/U (E 240 U/U)
Ø 50mm Huliot Ultra Silent pipes	50 x 3.6mm (2 layers)	EI 240 U/U (E 240 U/U)
Ø 75mm Huliot Ultra Silent pipes	50 x 3.6mm (2 layers)	EI 180 U/C (E 240 U/C)
Ø 90mm Huliot Ultra Silent pipes	50 x 3.6mm (2 layers)	EI 180 U/C (E 240 U/C)
Ø 110mm Huliot Ultra Silent pipes	50 x 3.6mm (2 layers)	EI 180 U/C (E 240 U/C)
Ø 125mm Huliot Ultra Silent pipes	50 x 10.8mm (6 layers)	EI 180 U/C (E 240 U/C)
Ø 160mm Huliot Ultra Silent pipes	50 x 10.8mm (6 layers)	EI 180 U/C (E 240 U/C)
Ø 200mm Huliot Ultra Silent pipes	75 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)

22/0748-A.2.7-11

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COMPOSITE POLO-KAL NG PLASTIC PIPES FIRE RESISTANCE EI 180 – 240

≥ 100MM RIGID FLOORS

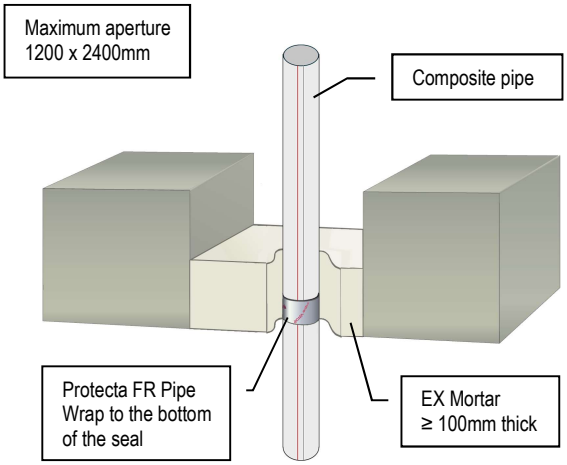


Services	FR Pipe Wrap	Classification
Ø 32mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 180 U/C (E 240 U/C)
Ø 40mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 180 U/C (E 240 U/C)
Ø 50mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 180 U/C (E 240 U/C)
Ø 75mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 180 U/C (E 180 U/C)
Ø 90mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 180 U/C (E 180 U/C)
Ø 110mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 180 U/C (E 180 U/C)
Ø 125mm Polo-Kal NG pipes	50 x 7.2mm (4 layers)	EI 240 U/C (E 240 U/C)
Ø 160mm Polo-Kal NG pipes	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)

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COMPOSITE REHAU RAUPIANO PLUS PLASTIC PIPES FIRE RESISTANCE EI 120

≥ 100MM RIGID FLOORS

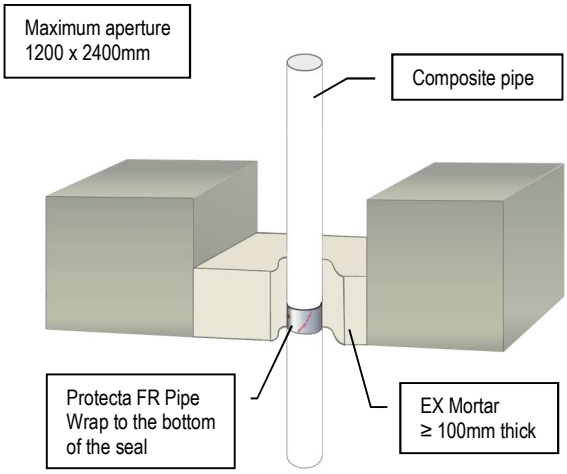


Services	FR Pipe Wrap	Classification
Ø 40mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 50mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Rehau Raupiano Plus pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 240 U/C)
Ø 160mm Rehau Raupiano Plus pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)

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COMPOSITE UPONOR DECIBEL PLASTIC PIPES FIRE RESISTANCE EI 120

≥ 100MM RIGID FLOORS



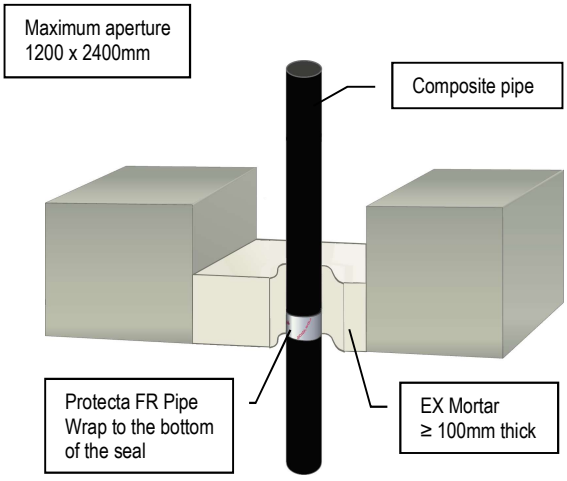
Services	FR Pipe Wrap	Classification
Ø 50mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)

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COMPOSITE VALSIR BLACKFIRE PLASTIC PIPES FIRE RESISTANCE EI 120-240

≥ 100MM RIGID FLOORS

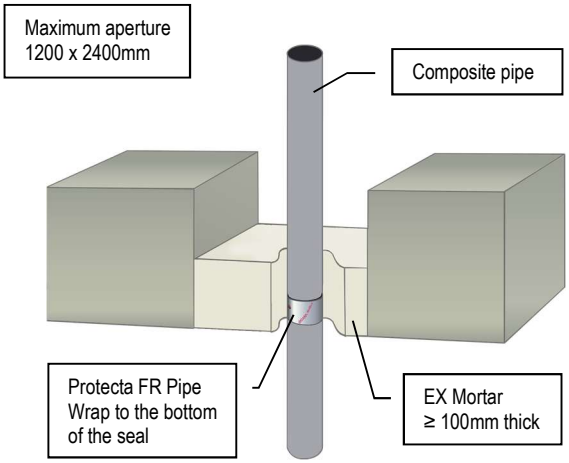


Services	FR Pipe Wrap	Classification
Ø 32mm Valsir Blackfire pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 240 U/U)
Ø 40mm Valsir Blackfire pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 240 U/U)
Ø 50mm Valsir Blackfire pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 240 U/U)
Ø 75mm Valsir Blackfire pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Valsir Blackfire pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Valsir Blackfire pipes	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
Ø 125mm Valsir Blackfire pipes	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)
Ø 160mm Valsir Blackfire pipes	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)

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COMPOSITE VALSIR PP3 PLASTIC PIPES FIRE RESISTANCE EI 120 – 240

≥ 100MM RIGID FLOORS

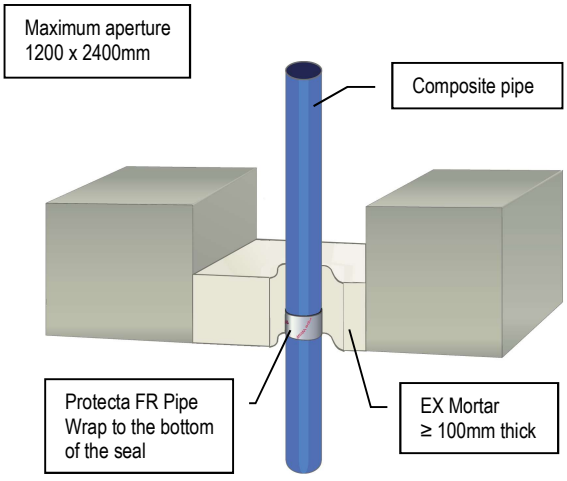


Services	FR Pipe Wrap	Classification
Ø 32mm Valsir PP3 pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 240 U/U)
Ø 40mm Valsir PP3 pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 240 U/U)
Ø 50mm Valsir PP3 pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 240 U/U)
Ø 75mm Valsir PP3 pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Valsir PP3 pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Valsir PP3 pipes	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
Ø 125mm Valsir PP3 pipes	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)
Ø 160mm Valsir PP3 pipes	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)

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COMPOSITE VALSIR TRIPLUS PLASTIC PIPES FIRE RESISTANCE EI 120-240

≥ 100MM RIGID FLOORS



Services	FR Pipe Wrap	Classification
Ø 32mm Valsir Triplus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 240 U/U)
Ø 40mm Valsir Triplus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 240 U/U)
Ø 50mm Valsir Triplus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 240 U/U)
Ø 75mm Valsir Triplus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Valsir Triplus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Valsir Triplus pipes	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
Ø 125mm Valsir Triplus pipes	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)
Ø 160mm Valsir Triplus pipes	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)

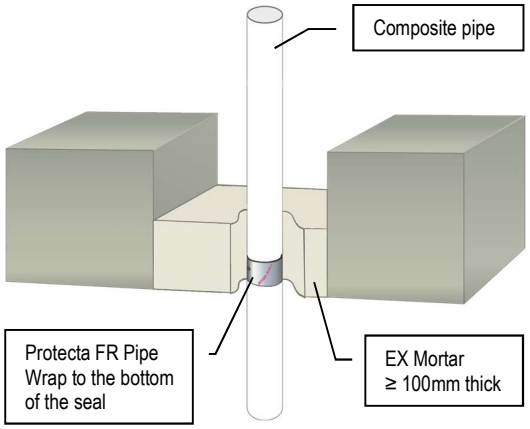
22/0748-A.2.7-14

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COMPOSITE WAVIN AS+ PLASTIC PIPES FIRE RESISTANCE EI 240

≥ 100MM RIGID FLOORS

Maximum aperture
1200 x 2400mm



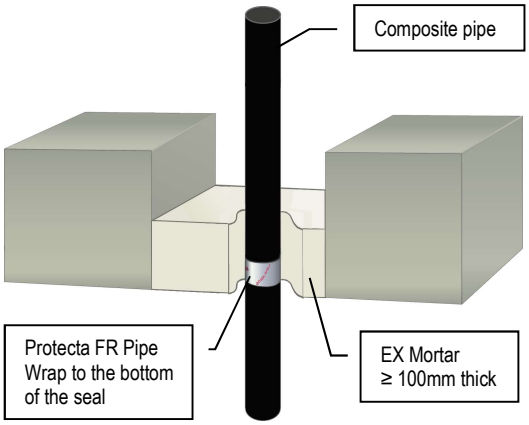
Services	FR Pipe Wrap	Classification
Ø 50mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
Ø 75mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 240 C/C (E 240 C/C)
Ø 90mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 240 C/C (E 240 C/C)
Ø 110mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 240 C/C (E 240 C/C)
Ø 125mm Wavin AS+ pipes	75 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
Ø 160mm Wavin AS+ pipes	75 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
Ø 200mm Wavin AS+ pipes	75 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)

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COMPOSITE WAVIN SITECH PLASTIC PIPES FIRE RESISTANCE EI 120

≥ 100MM RIGID FLOORS

Maximum aperture
1200 x 2400mm



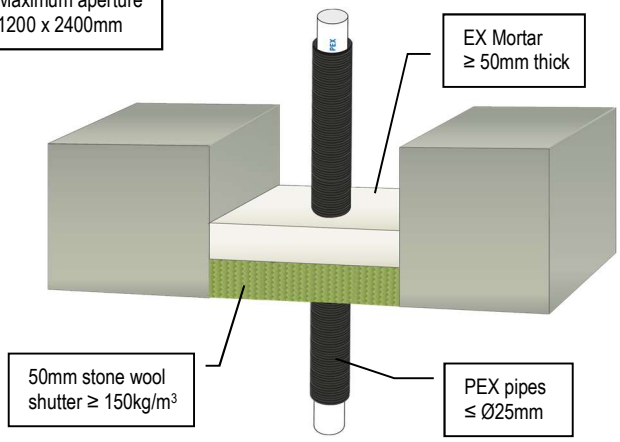
Services	FR Pipe Wrap	Classification
Ø 32mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 40mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 50mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)

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PEX PIPE-IN-PIPE SYSTEM FIRE RESISTANCE EI 180 C/C (E 180)

≥ 100MM RIGID FLOORS

Maximum aperture
1200 x 2400mm

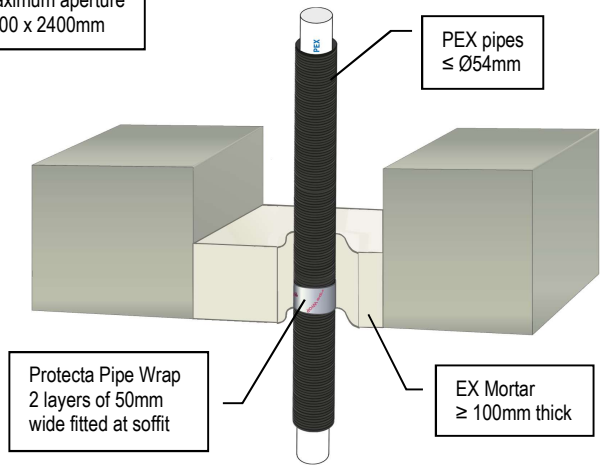


22/0748-A.2.10-2

PEX PIPE-IN-PIPE SYSTEM FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM RIGID FLOORS

Maximum aperture
1200 x 2400mm

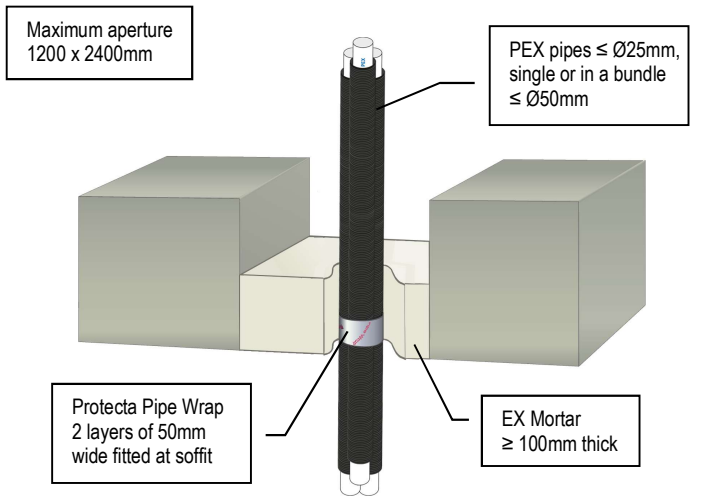


22/0748-A.2.7-1

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PEX PIPE-IN-PIPE SYSTEM FIRE RESISTANCE EI 240 C/C (E 240)

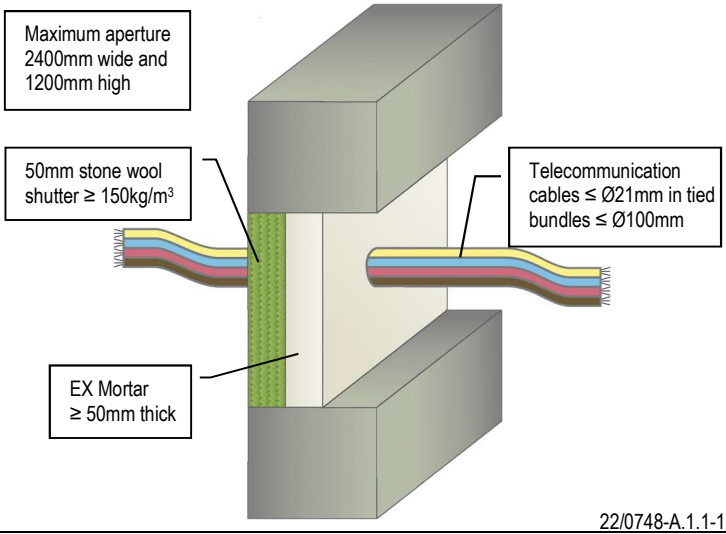
≥ 100MM RIGID FLOORS



22/0748-A.2.7-2

CABLES FIRE RESISTANCE EI 90 (E 180)

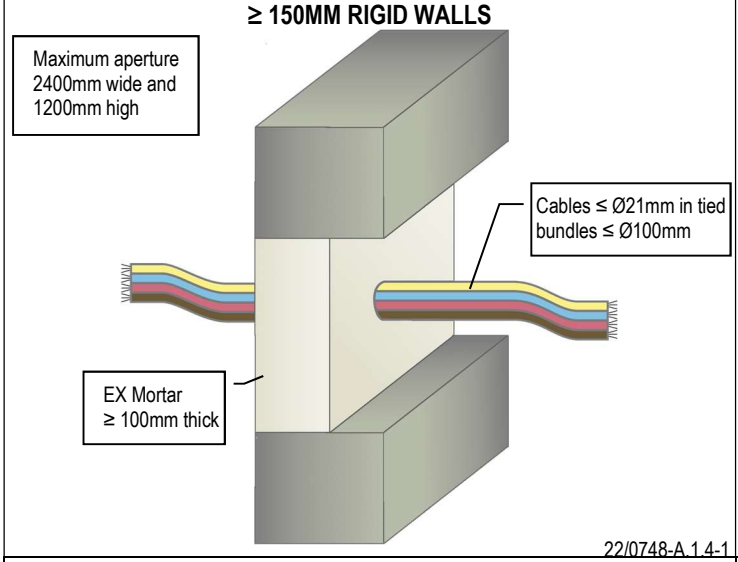
≥ 150MM RIGID WALLS



22/0748-A.1.1-1

CABLES FIRE RESISTANCE EI 120 (E 120)

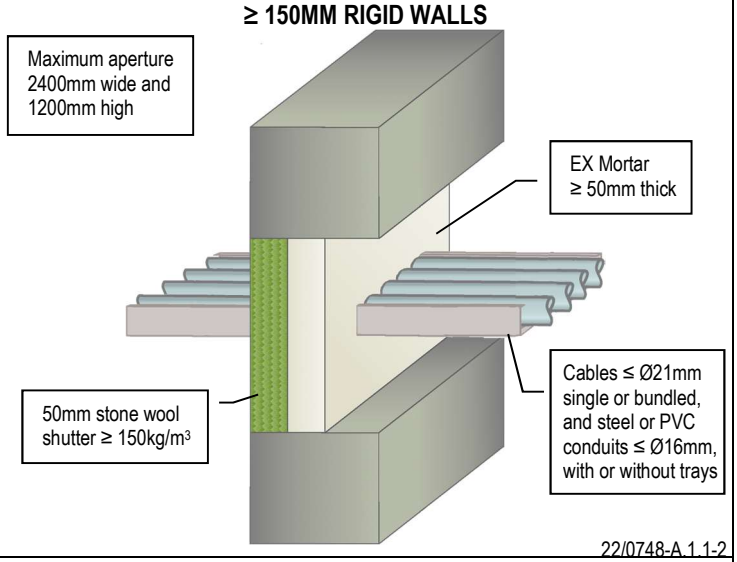
≥ 150MM RIGID WALLS



22/0748-A.1.4-1

CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 180)

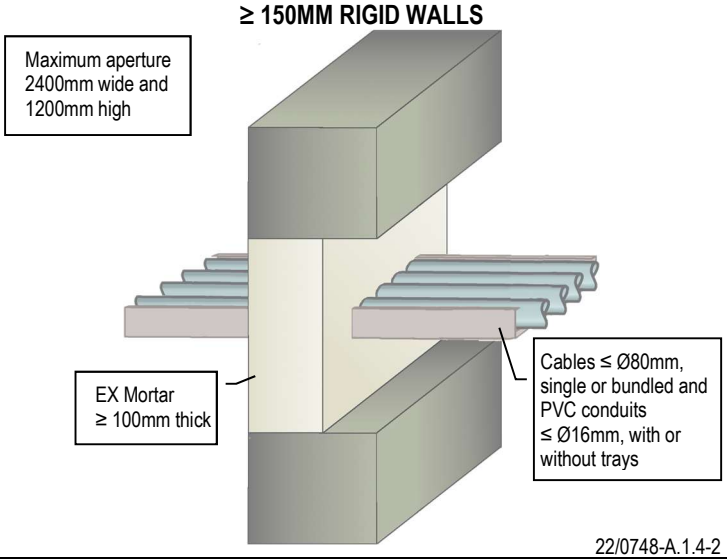
≥ 150MM RIGID WALLS



22/0748-A.1.1-2

CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 240)

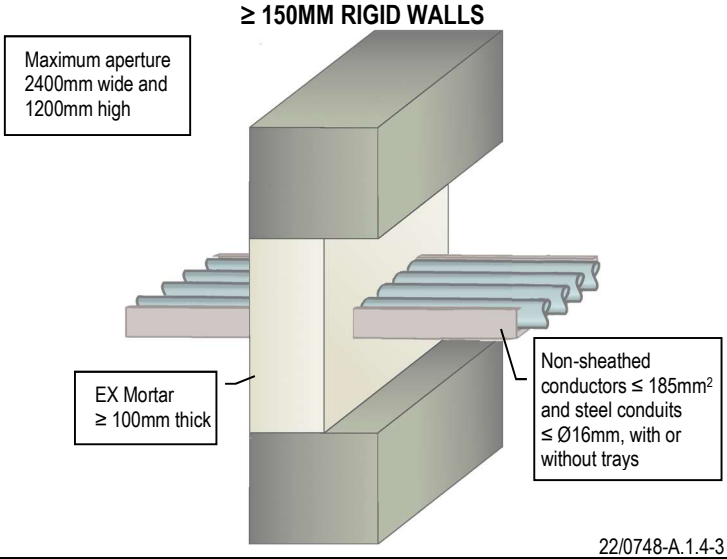
≥ 150MM RIGID WALLS



22/0748-A.1.4-2

CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 120)

≥ 150MM RIGID WALLS

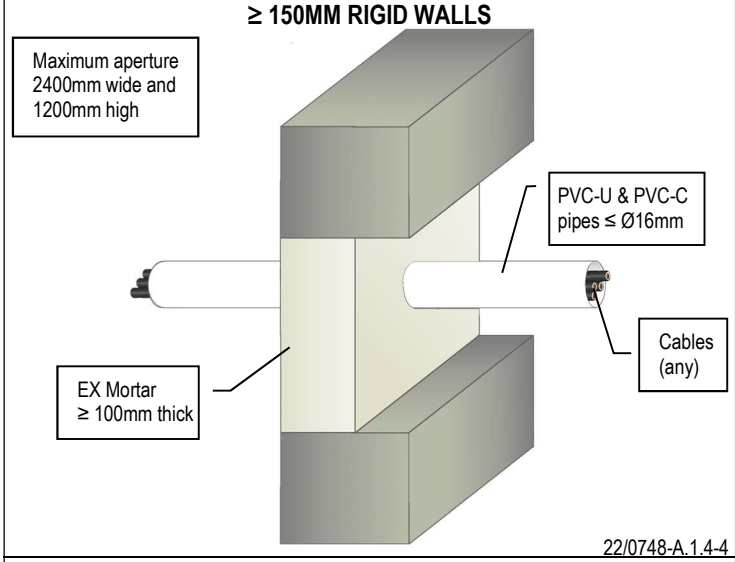


22/0748-A.1.4-3

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PLASTIC CONDUITS FIRE RESISTANCE EI 240 C/U (E 240)

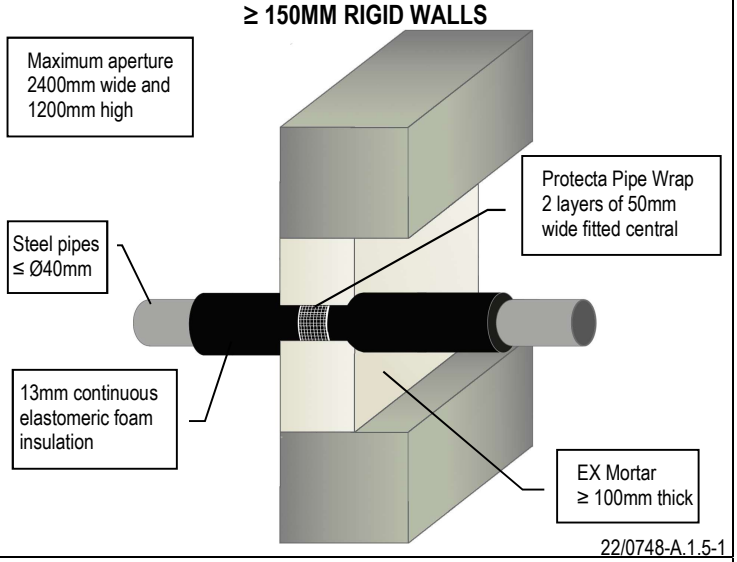
≥ 150MM RIGID WALLS



22/0748-A.1.4-4

INSULATED STEEL PIPES FIRE RESISTANCE EI 240 C/U (E 240)

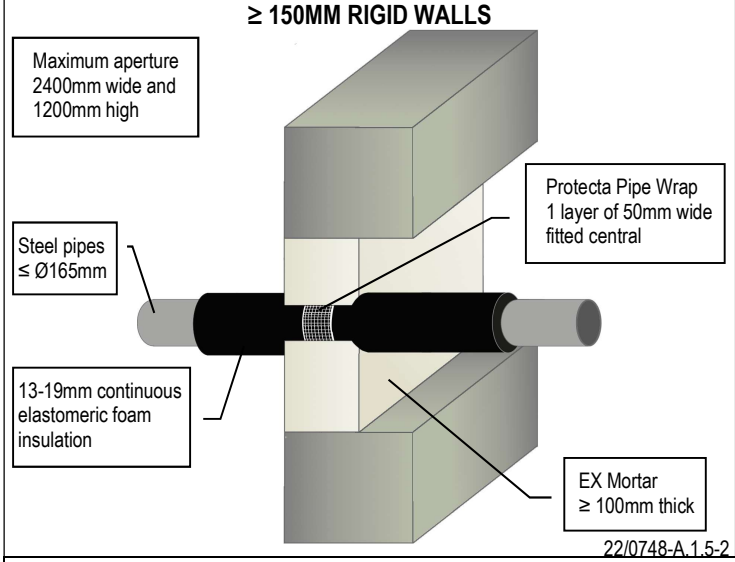
≥ 150MM RIGID WALLS



22/0748-A.1.5-1

INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 240)

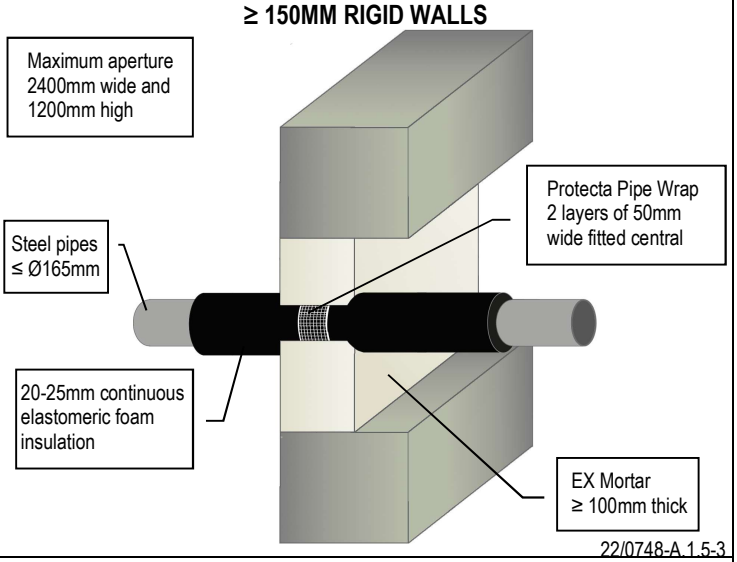
≥ 150MM RIGID WALLS



22/0748-A.1.5-2

INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 180)

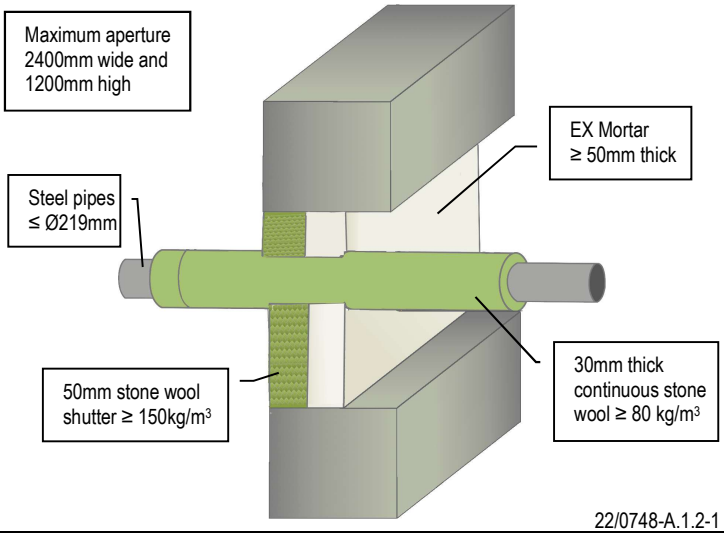
≥ 150MM RIGID WALLS



22/0748-A.1.5-3

INSULATED STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 120)

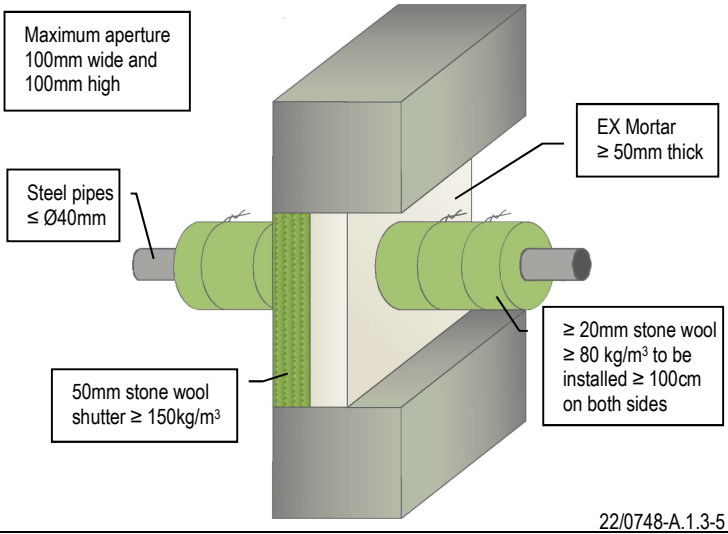
≥ 150MM RIGID WALLS



22/0748-A.1.2-1

STEEL PIPES FIRE RESISTANCE EI 240 C/U (E 240)

≥ 150MM RIGID WALLS

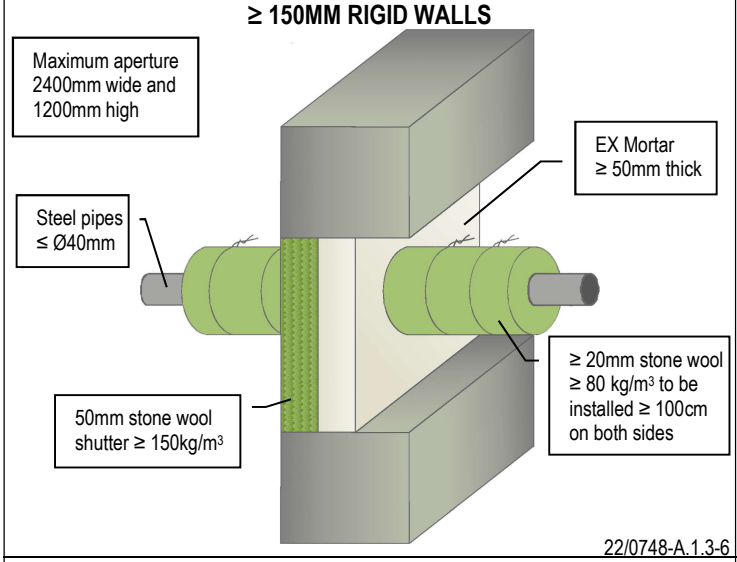


22/0748-A.1.3-5

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STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 180)

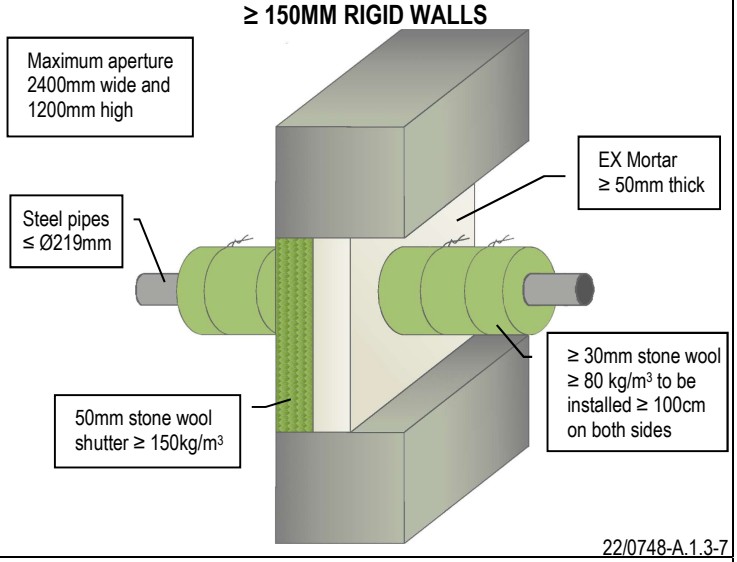
≥ 150MM RIGID WALLS



22/0748-A.1.3-6

STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 120)

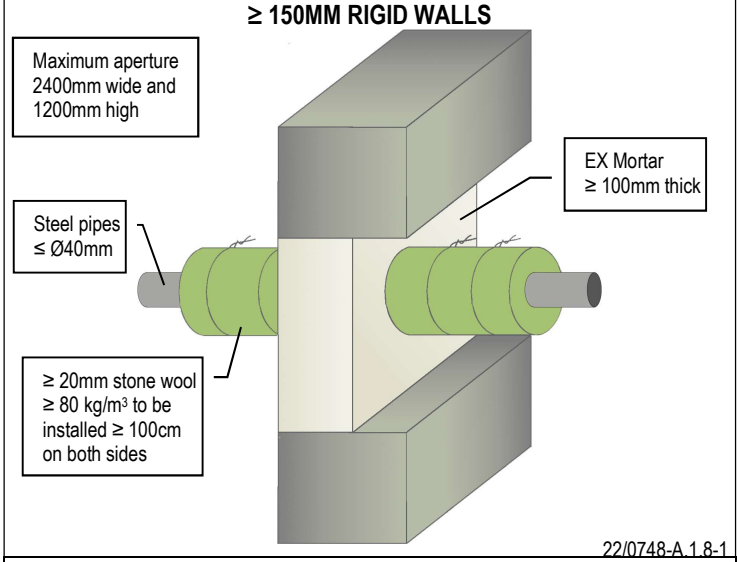
≥ 150MM RIGID WALLS



22/0748-A.1.3-7

STEEL PIPES FIRE RESISTANCE EI 240 C/U (E 240)

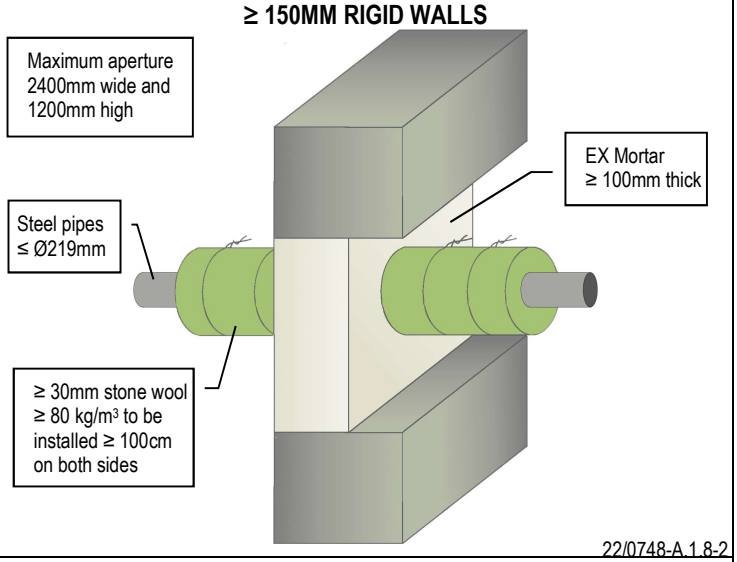
≥ 150MM RIGID WALLS



22/0748-A.1.8-1

STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 240)

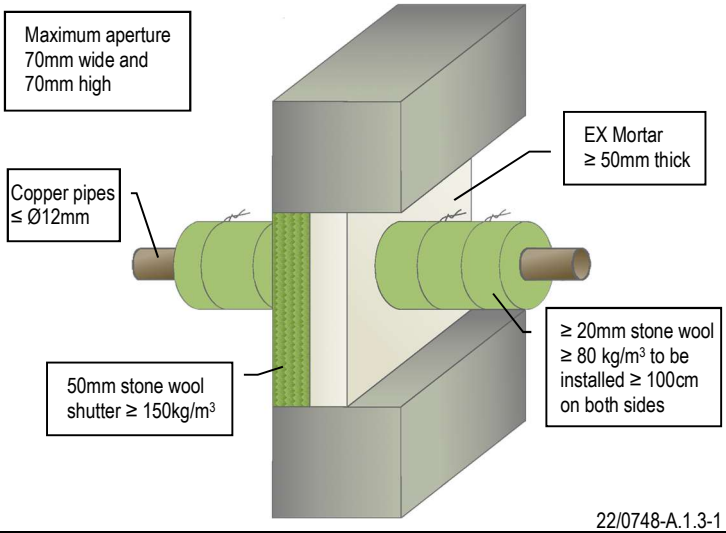
≥ 150MM RIGID WALLS



22/0748-A.1.8-2

COPPER PIPES FIRE RESISTANCE EI 240 C/C (E 240)

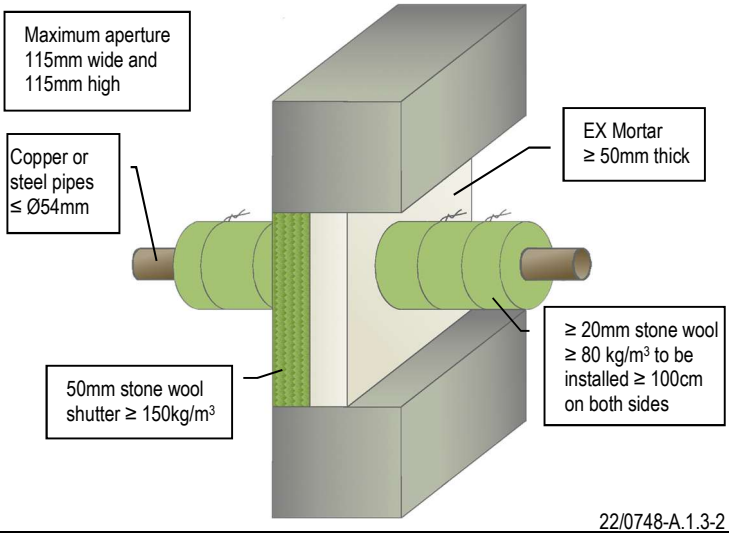
≥ 150MM RIGID WALLS



22/0748-A.1.3-1

COPPER OR STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 240)

≥ 150MM RIGID WALLS

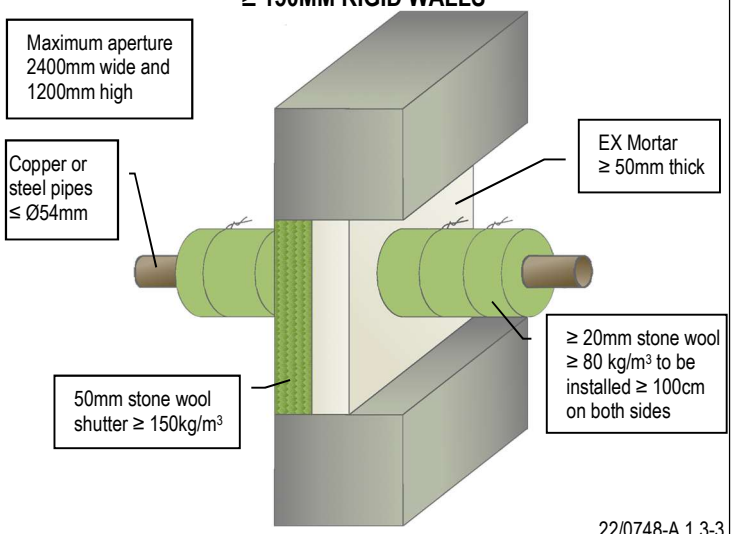


22/0748-A.1.3-2

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COPPER OR STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 180)

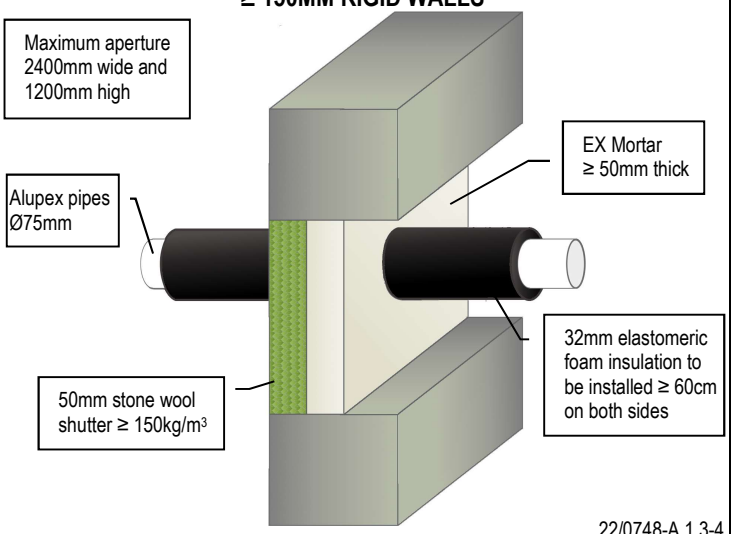
≥ 150MM RIGID WALLS



22/0748-A.1.3-3

ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

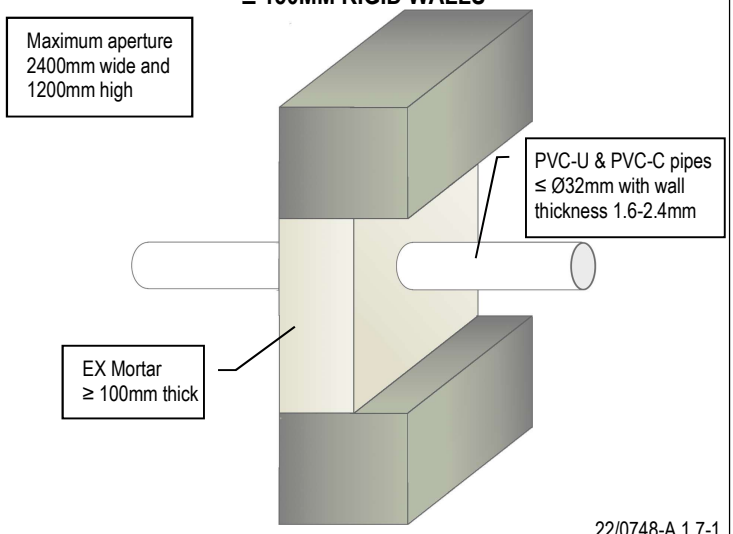
≥ 150MM RIGID WALLS



22/0748-A.1.3-4

PVC PIPES FIRE RESISTANCE EI 120 U/C (E 120)

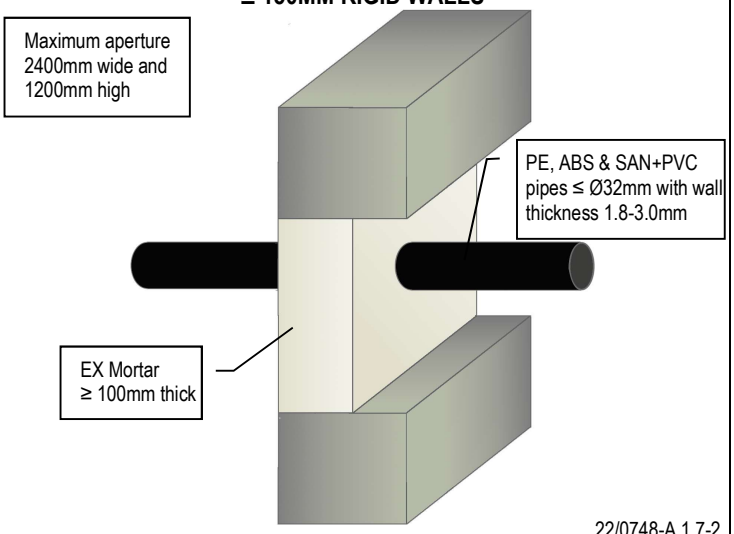
≥ 150MM RIGID WALLS



22/0748-A.1.7-1

PE & ABS PIPES FIRE RESISTANCE EI 120 U/C (E 120)

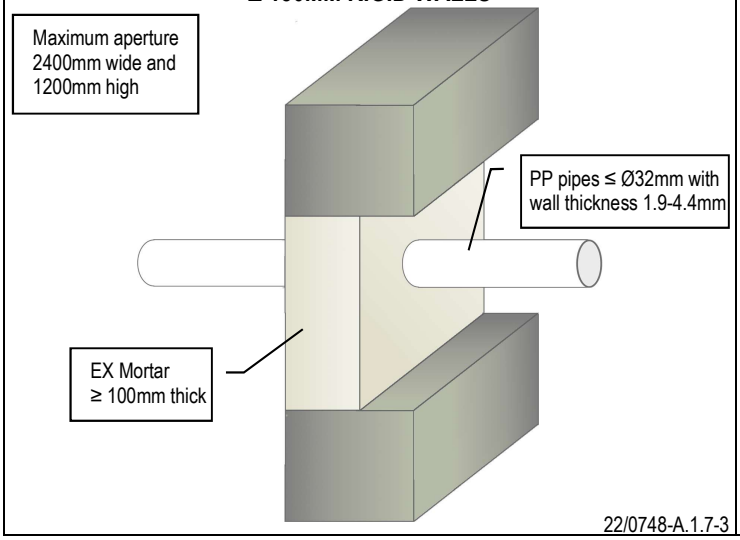
≥ 150MM RIGID WALLS



22/0748-A.1.7-2

PP PIPES FIRE RESISTANCE EI 120 U/C (E 120)

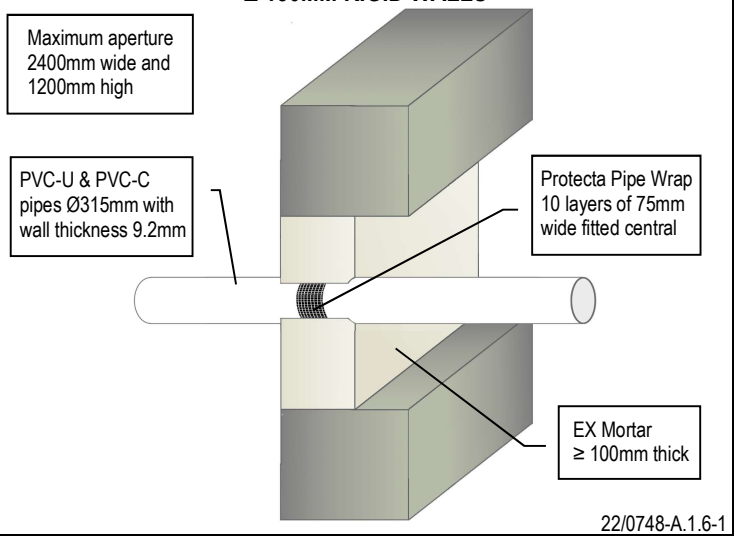
≥ 150MM RIGID WALLS



22/0748-A.1.7-3

PLASTIC PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 150MM RIGID WALLS

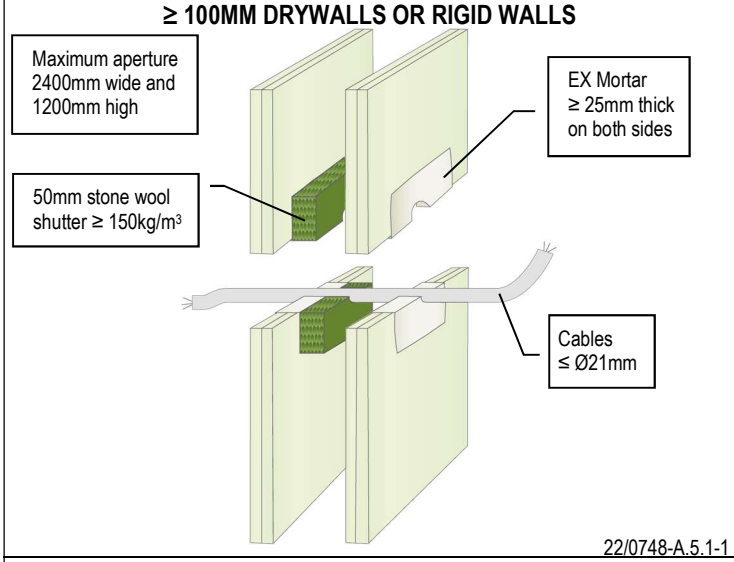


22/0748-A.1.6-1

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CABLES FIRE RESISTANCE EI 90 (E 120)

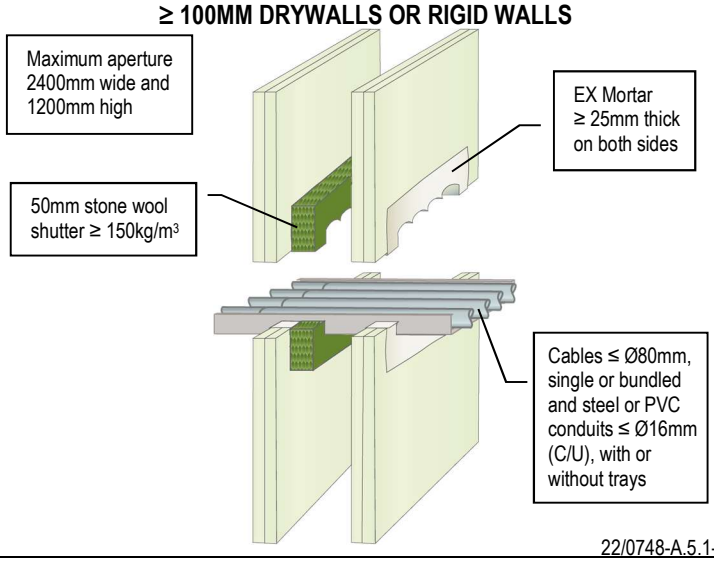
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.1-1

CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 120)

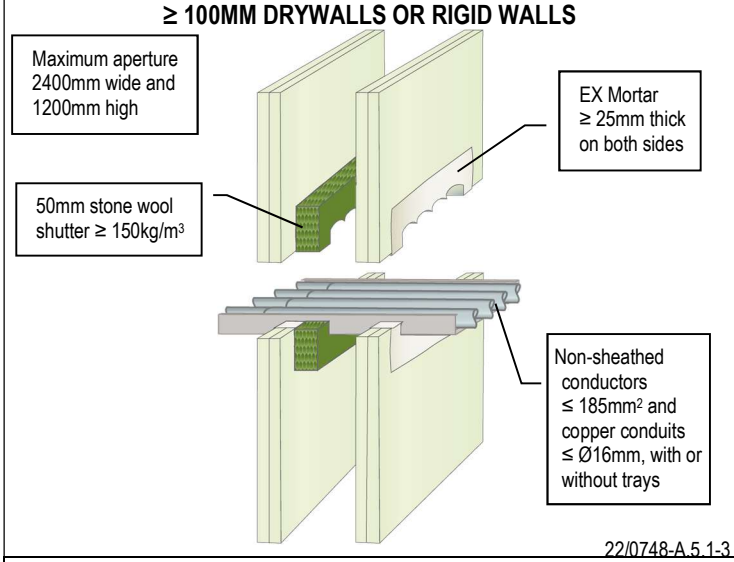
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.1-2

CABLES AND CABLE TRAYS FIRE RESISTANCE EI 45 (E 120)

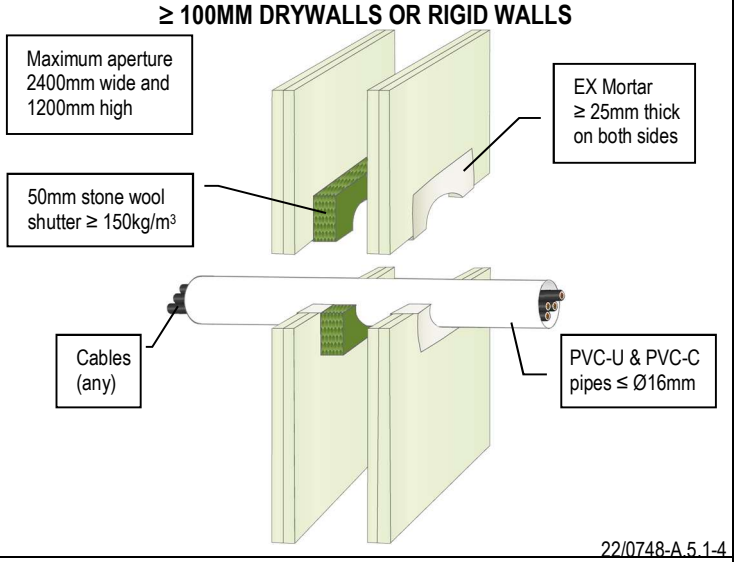
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.1-3

PLASTIC CONDUITS FIRE RESISTANCE EI 120 C/U (E 120)

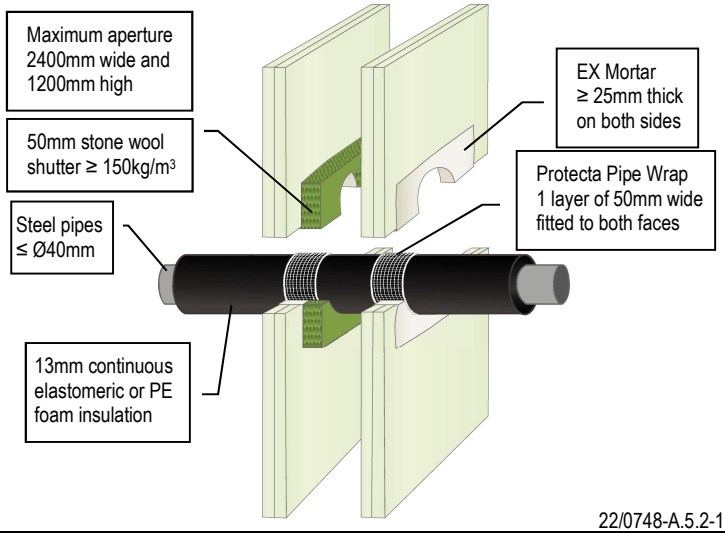
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.1-4

INSULATED STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 120)

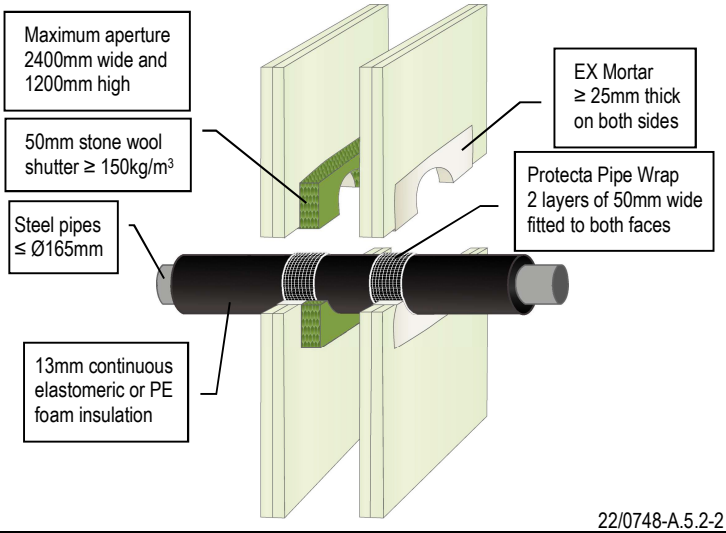
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.2-1

INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS

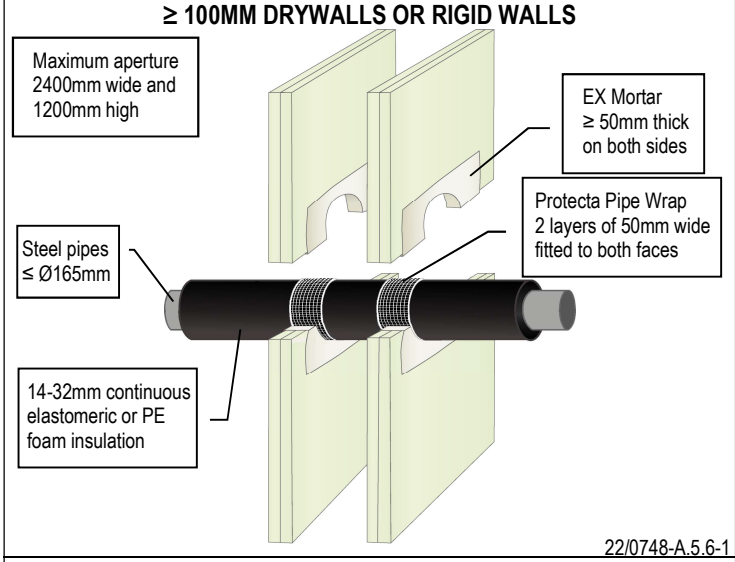


22/0748-A.5.2-2

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INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 120)

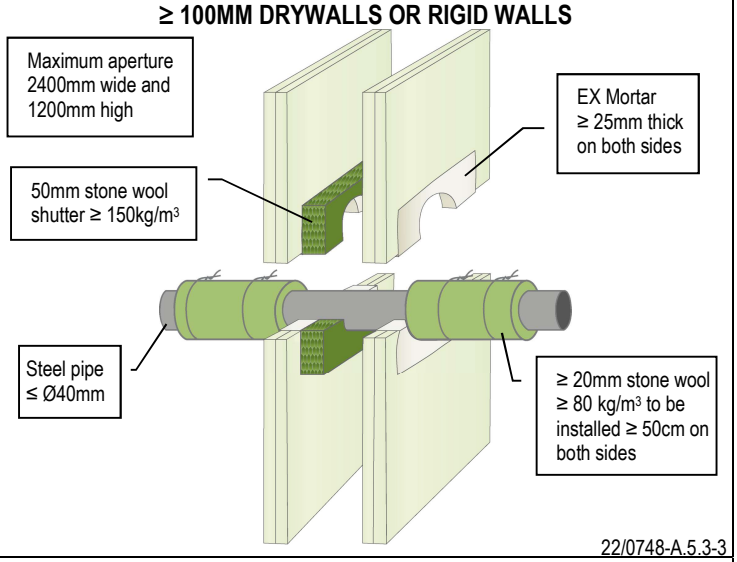
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.6-1

STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 120)

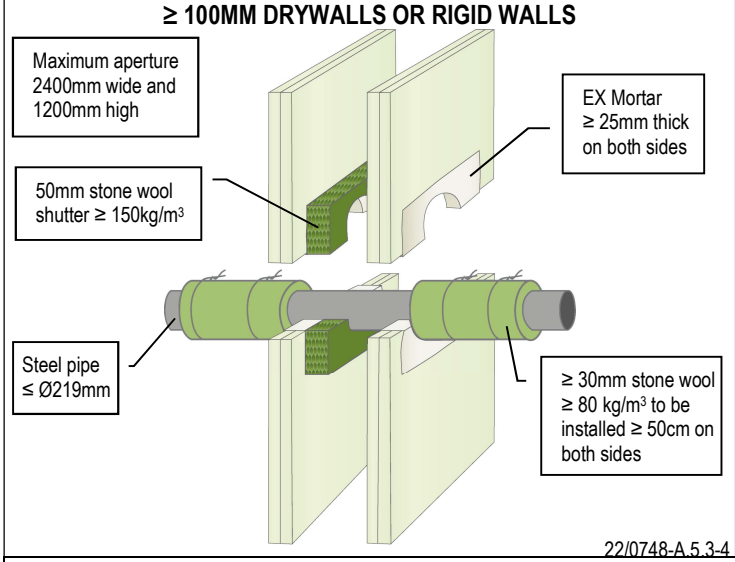
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.3-3

STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 120)

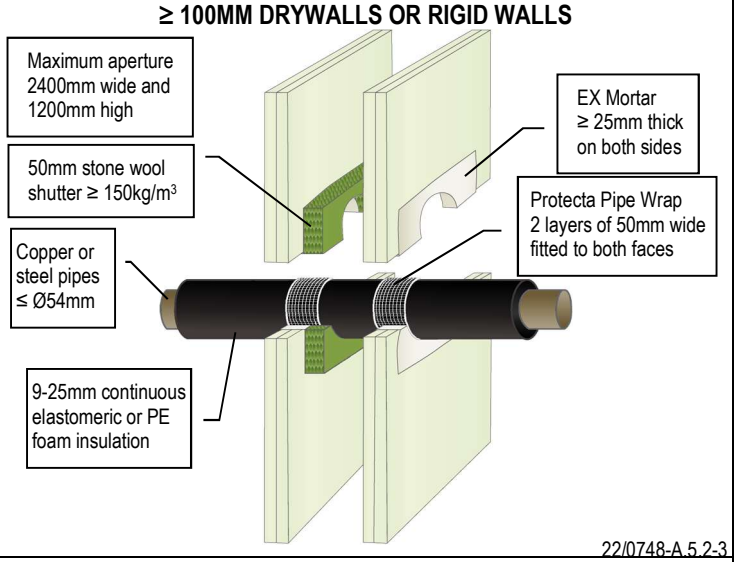
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.3-4

COPPER OR STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)

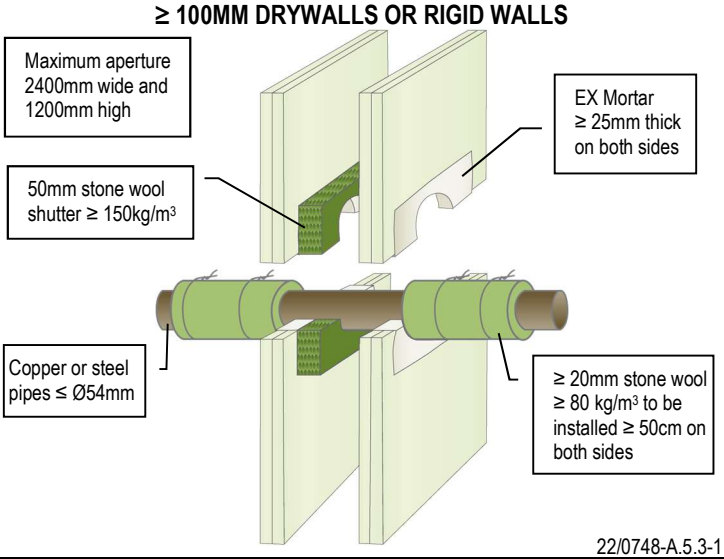
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.2-3

COPPER OR STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)

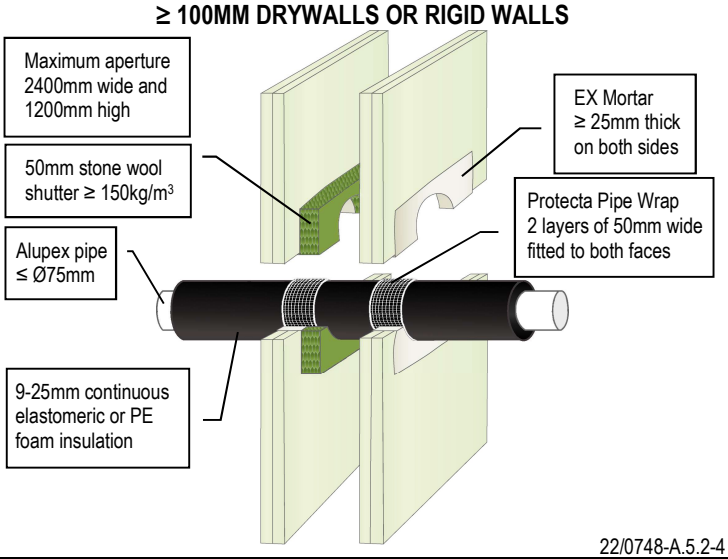
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.3-1

INSULATED ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



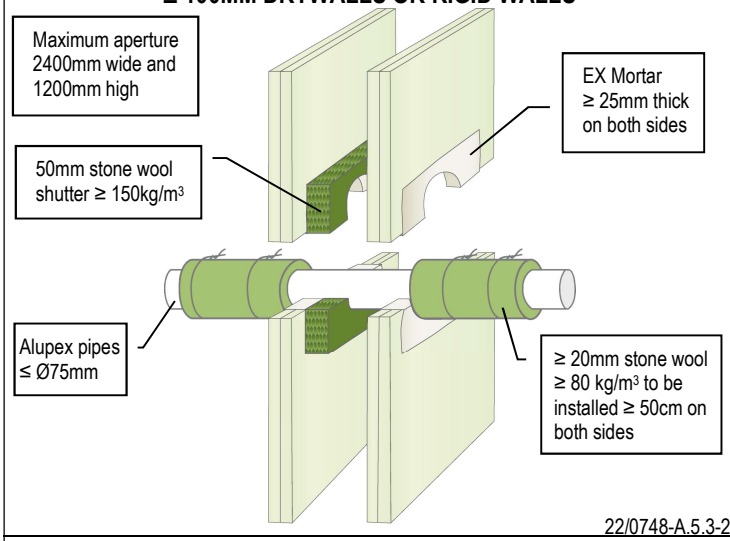
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ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)

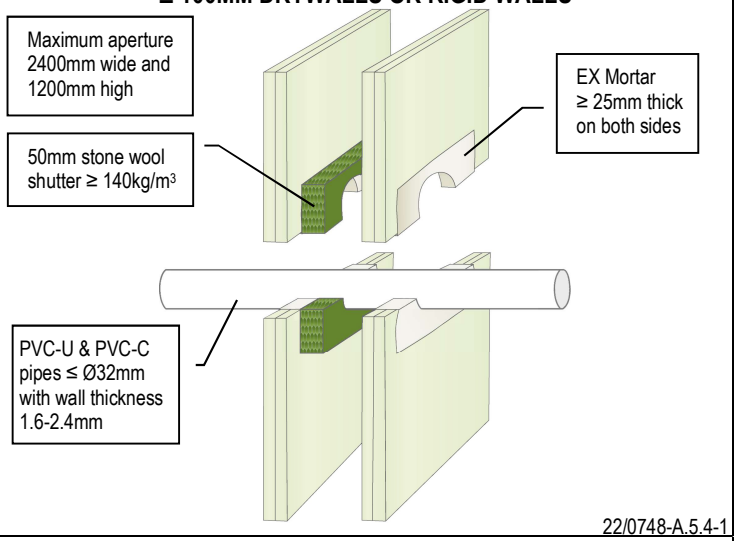
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.3-2

PVC PIPES FIRE RESISTANCE EI 120 U/C (E 120)

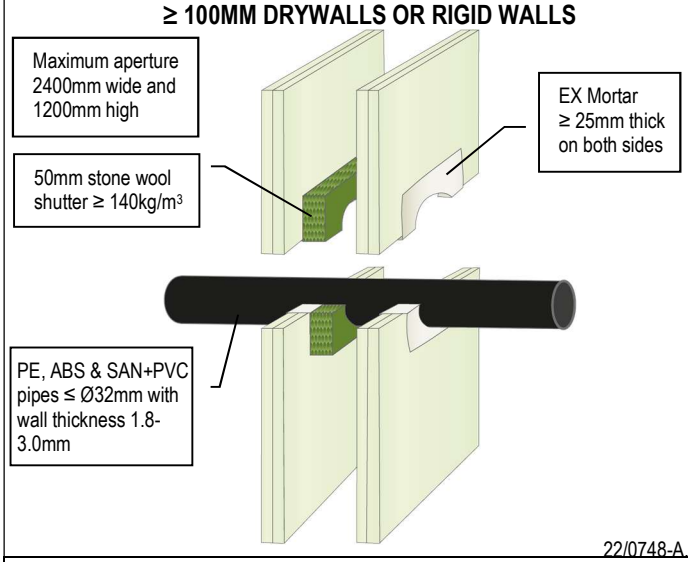
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.4-1

PE & ABS PIPES FIRE RESISTANCE EI 120 U/C (E 120)

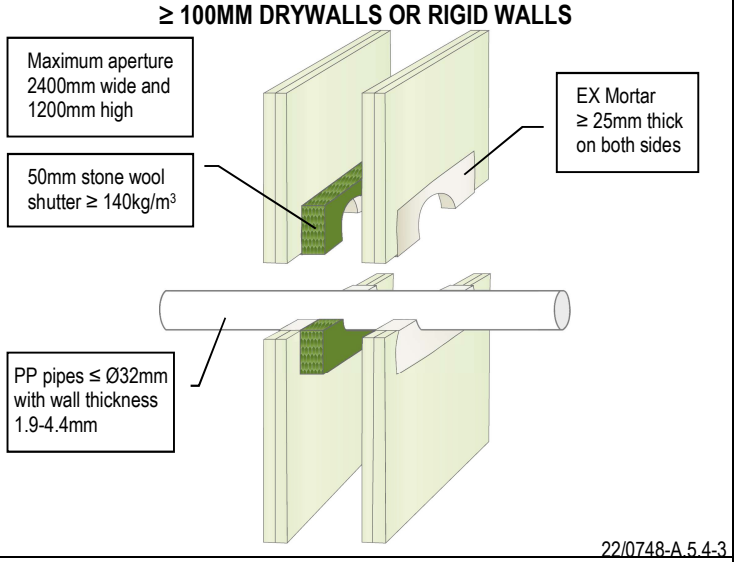
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.4-2

PP PIPES FIRE RESISTANCE EI 120 U/C (E 120)

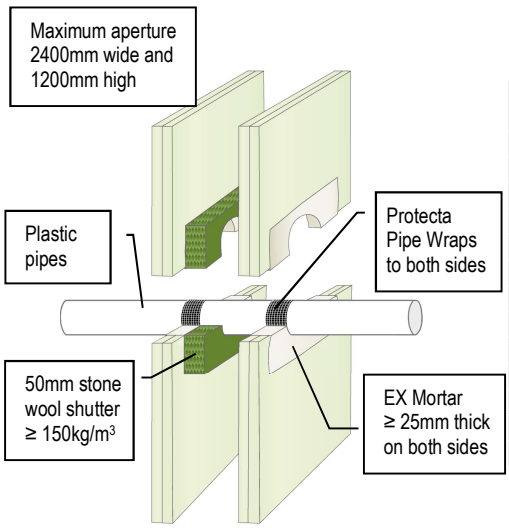
≥ 100MM DRYWALLS OR RIGID WALLS



22/0748-A.5.4-3

PLASTIC PIPES FIRE RESISTANCE EI 60-120

≥ 100MM DRYWALLS OR RIGID WALLS



Services	Pipe Wall Thickness	Pipe Wrap	Classification
≤ Ø40mm PVC-U & PVC-C	3.0 – 4.3mm	50 x 1.8mm (1 layer)	EI 60 U/C (E 120 U/C)
≤ Ø40mm PE, ABS & SAN+PVC	3.2 – 3.7mm	50 x 1.8mm (1 layer)	EI 120 U/C (E 120 U/C)
≤ Ø40mm PP	4.0 – 5.5mm	50 x 1.8mm (1 layer)	EI 120 U/C (E 120 U/C)
≤ Ø110mm PVC-U & PVC-C	2.7 – 6.6mm	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
≤ Ø110mm PE, ABS & SAN+PVC	4.2 – 10.0mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
≤ Ø110mm PP	6.6mm	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
≤ Ø125mm PVC-U & PVC-C	3.7 – 7.4mm	50 x 5.4mm (3 layers)	EI 120 U/C (E 120 U/C)
≤ Ø125mm PE, ABS & SAN+PVC	12.0mm	50 x 5.4mm (3 layers)	EI 120 U/C (E 120 U/C)
≤ Ø125mm PP	17.1mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
≤ Ø160mm PVC-U & PVC-C	3.2 – 9.5mm	50 x 7.2mm (4 layers)	EI 60 U/C (E 60 U/C)
≤ Ø160mm PE, ABS & SAN+PVC	12.0mm	50 x 7.2mm (4 layers)	EI 90 U/C (E 120 U/C)
≤ Ø160mm PE, ABS & SAN+PVC	4.9 – 12.0mm	50 x 7.2mm (4 layers)	(E 120 U/C)
≤ Ø160mm PP	21.9mm	50 x 7.2mm (4 layers)	EI 60 U/C (E 60 U/C)
≤ Ø160mm PP	4.0 – 21.9mm	50 x 7.2mm (4 layers)	(E 120 U/C)

22/0748-A.5.5-1

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