PROTECTA® FR IPT

INSTALLATION INSTRUCTIONS

Index for Detailed Drawings

For guidance on fire sealing ventilation ducts, please refer to Protecta® FR Damper's Technical Data Sheet.

General Product Description

Protecta® FR IPT is a high performance, professional quality, one part ready to use sealant and adhesive. Based on an innovative new Inert Polymer Technology it is suitable for a wide variety of building trade applications including decorating, fire sealing, flooring, joinery, plumbing and tiling and out-performs conventional water based products as a sealant and adhesive – free from dangerous emissions.

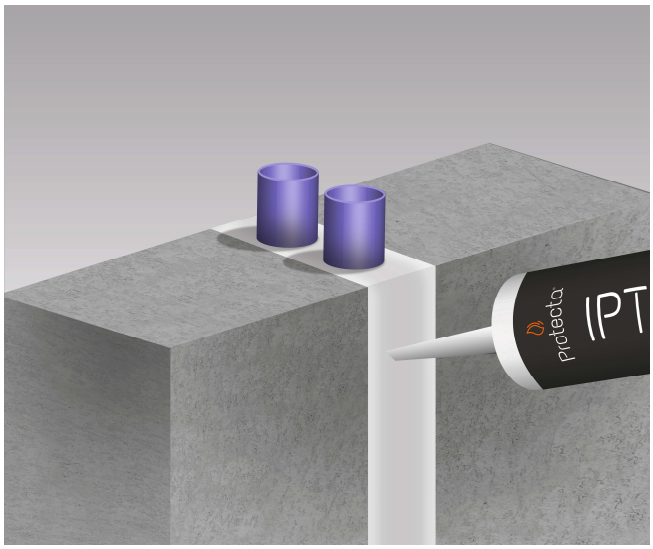
General Guide

Minimum separations and limitations: Services can be sealed as specified in the detailed drawings. Minimum separation between services and the edge of the seal within each aperture should be 10 mm to allow for correct fitting of backing and seal depth. Minimum separation between apertures should be at least 30 mm. For larger joint dimensions or apertures other than described in the detailed drawings, Protecta® FR Board or EX Mortar should be used.

Supporting constructions: Flexible walls must have a minimum thickness of 75 mm and comprise steel studs or timber studs lined on both faces with minimum 1 layer of 12.5 mm thick boards. Rigid walls must have a minimum thickness of 75 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 150 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 shall be supported at maximum 250 mm away from both faces of the wall constructions and 450 mm from the upper face of floor constructions.

Services: Metallic pipes through Protecta® FR IPT 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. All surfaces must be clean and sound, free from dirt, grease and other contaminants. The surfaces may be damp but not running wet. Use a wet brush to clean surfaces before application to remove loose material and to ensure good contact for adhesion. Primers are not usually required.
2. As Protecta® FR IPT contains some water, in cases where corrosion protection is a problem; some metals may require a barrier between the sealant and the metal surface prior to this installation.
3. When installing Protecta® FR IPT in hollow floor slabs, top sided seals should be completed double sided without reduction of the seal depth on either side. There must be sufficient thickness of concrete below and above the void for the depth of the fire seal. Where this is not the case, tubular voids should be plugged with stone wool backing material before sealing the aperture.
4. Where single sided top face seals are described, these can also be used in composite floors (e.g., concrete filled, steel trapezoidal decking).
5. Refer to the drawings on following pages 2 to 14 for guidance on joint design/dimensions for fire sealing. If installation does not have to meet any specific fire specification, the depth of the joint should be at least half the width and not less than 6 mm in order to obtain maximum performance as a sealant.
6. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved. The use of backing material is strongly recommended.
7. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill. Strike off the sealant flush with the joint sides within ten minutes of application, before surface skinning occurs. The sealant will have medium shrinkage during cure and if a flush surface is required it is recommended to leave the sealant proud.
8. The sealant can be tooled to a smooth finish using a moist plastic stick or similar within 30 minutes of application.
9. Do not spray the sealant with water or other fluids before skin formation (<60 min). Uncured sealant is soluble in water prior to skinning due to its environmentally friendly IPT chemistry that uses water instead of solvents.
10. Protecta® FR IPT can be over-painted.

Installation Guide to ETA 22/0751, ETA 22/0750, UKTA 22/0028 & UKTA 22/0029

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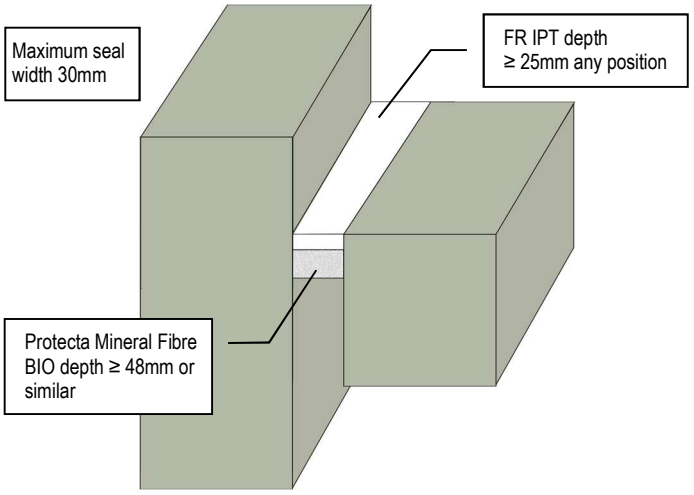
LINEAR SEALS FIRE RESISTANCE EI 180 (E 240)

IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS



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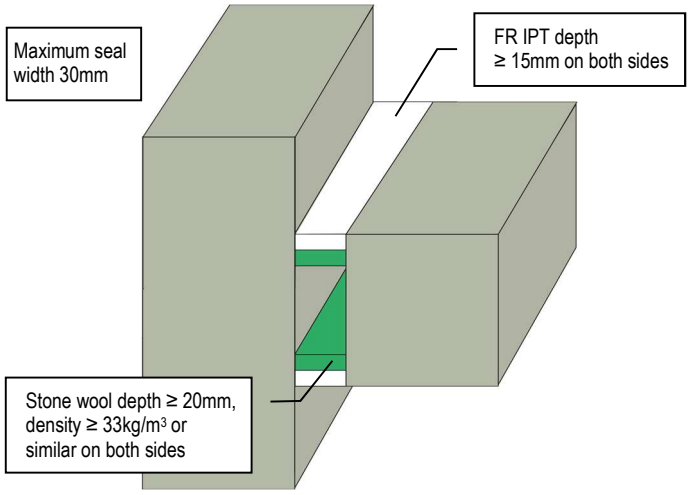
LINEAR SEALS FIRE RESISTANCE EI 240

IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS



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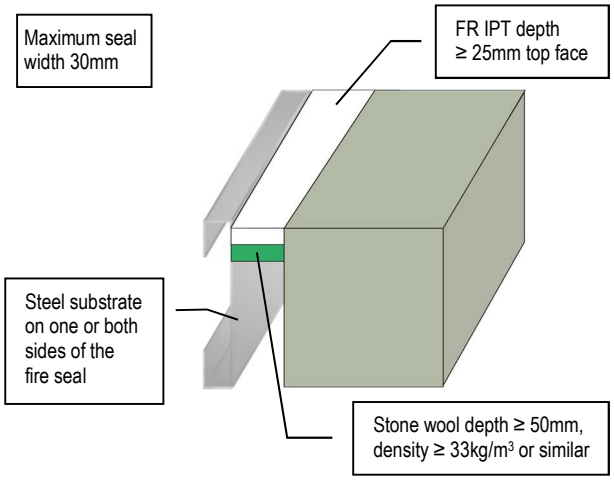
LINEAR SEALS FIRE RESISTANCE EI 20 (E 240)

IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS



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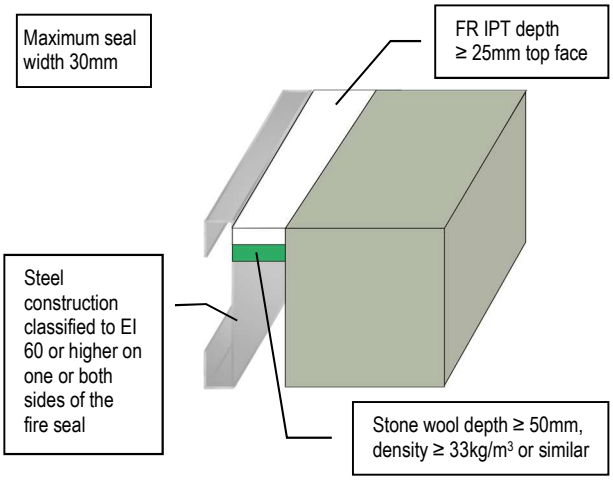
LINEAR SEALS FIRE RESISTANCE EI 60 (E 240)

IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS



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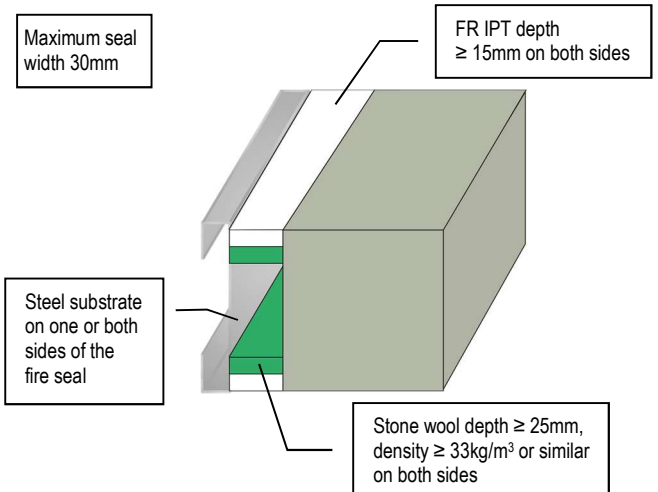
LINEAR SEALS FIRE RESISTANCE EI 45 (E 180)

IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS



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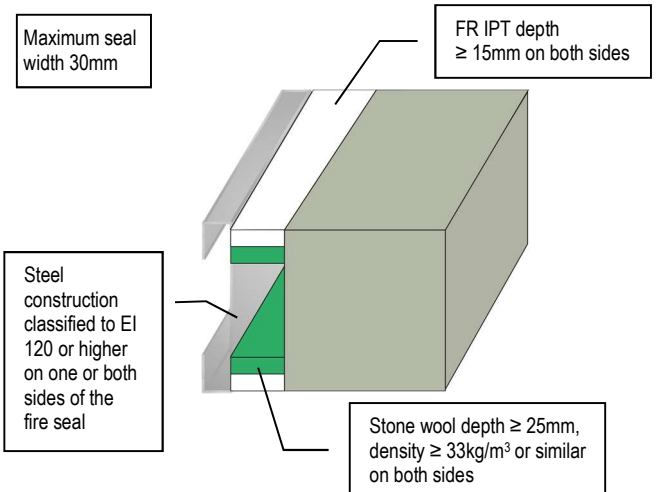
LINEAR SEALS FIRE RESISTANCE EI 120 (E 180)

IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS



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LINEAR SEALS FIRE RESISTANCE EI 15 (E 240)

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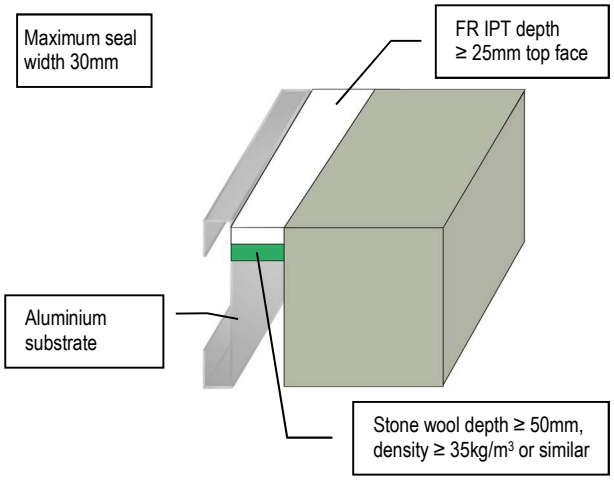

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LINEAR SEALS FIRE RESISTANCE EI 90 (E 240)

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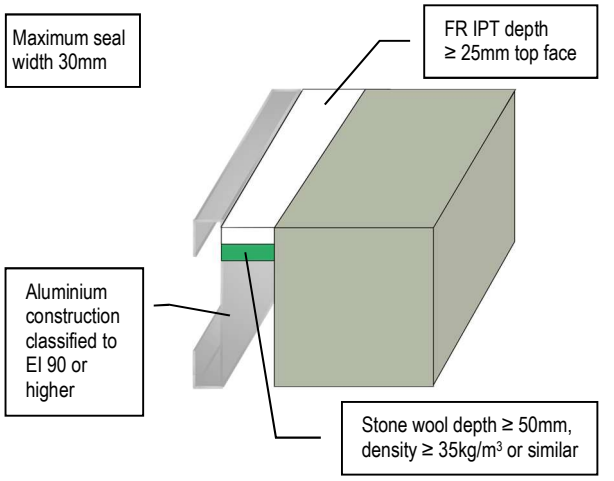

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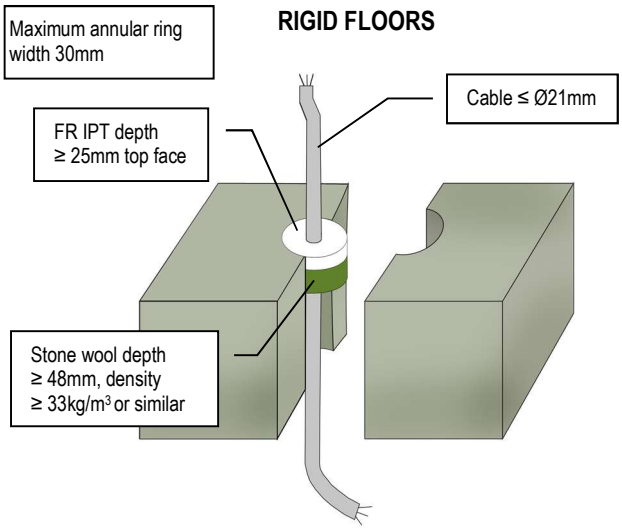
CABLE FIRE RESISTANCE EI 240 (E 240)

RIGID FLOORS



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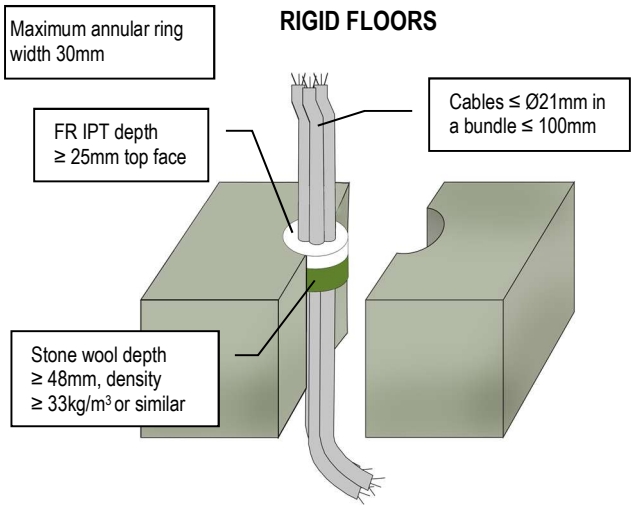
CABLE FIRE RESISTANCE EI 120 (E 120)

RIGID FLOORS



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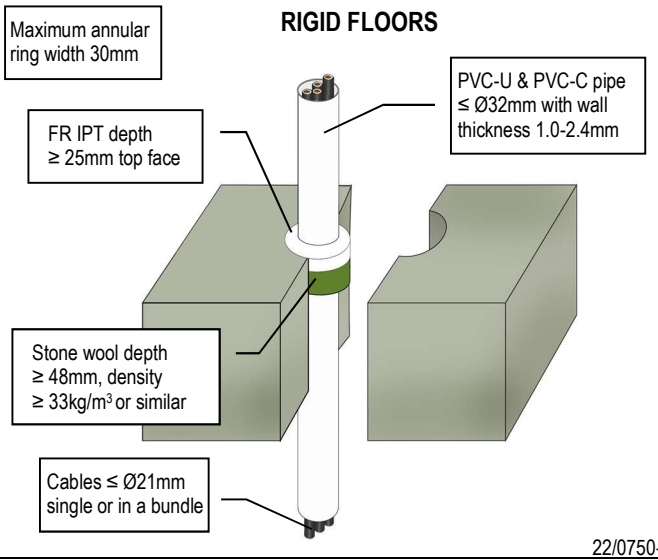
PVC CONDUIT FIRE RESISTANCE EI 60 C/C (E 180)

RIGID FLOORS



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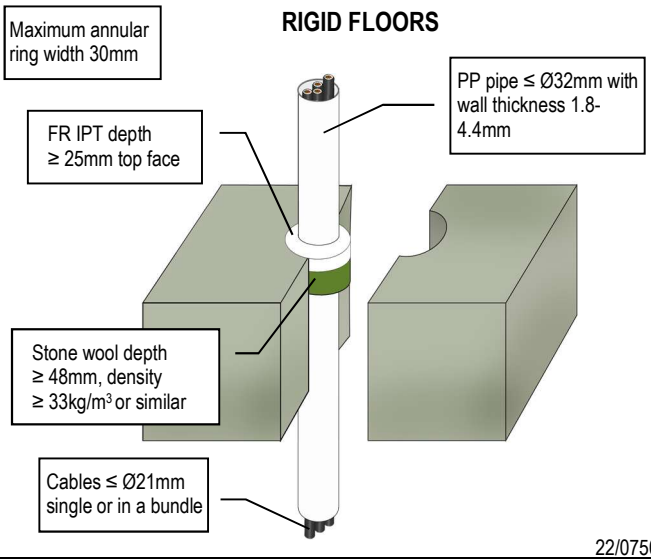
PP CONDUIT FIRE RESISTANCE EI 120 C/C (E 120)

RIGID FLOORS



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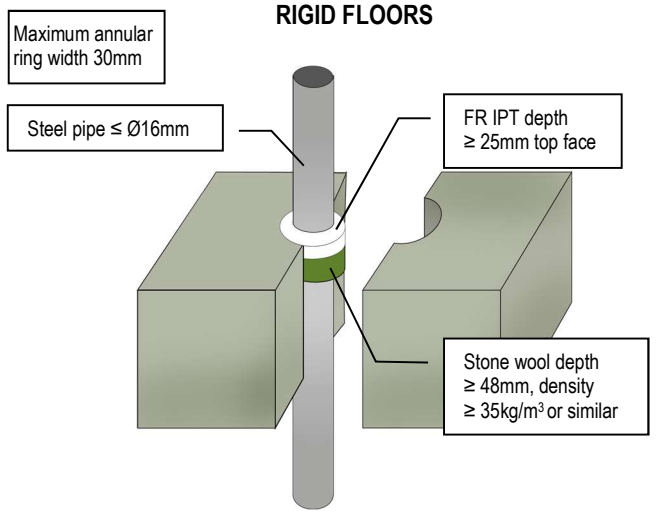
STEEL PIPE FIRE RESISTANCE EI 120 C/U (E 120)

RIGID FLOORS



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STEEL PIPE FIRE RESISTANCE EI 20 C/U (E 120)

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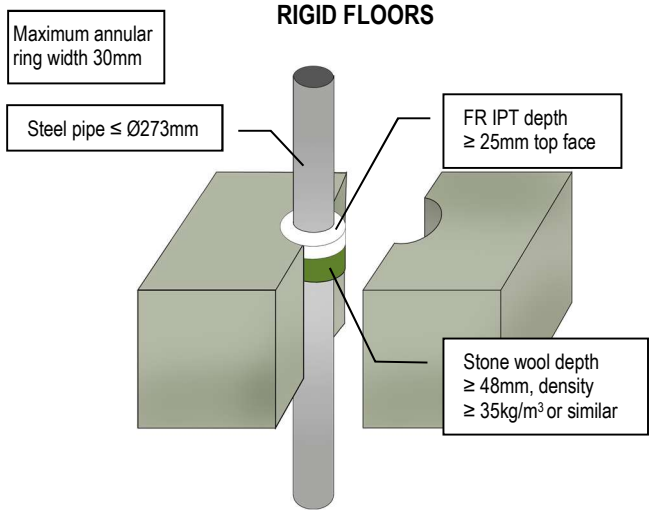

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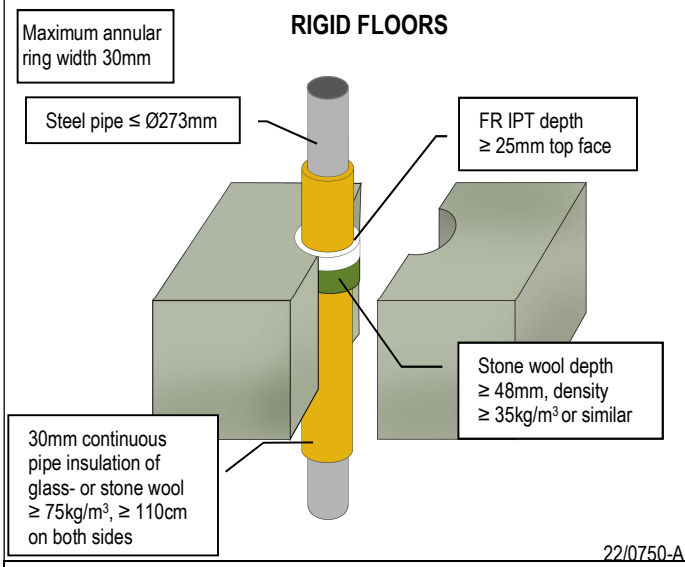
INSULATED STEEL PIPE FIRE RESISTANCE EI 90 C/U (E 120)

RIGID FLOORS



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INSULATED STEEL PIPE FIRE RESISTANCE EI 45 C/U (E 45)

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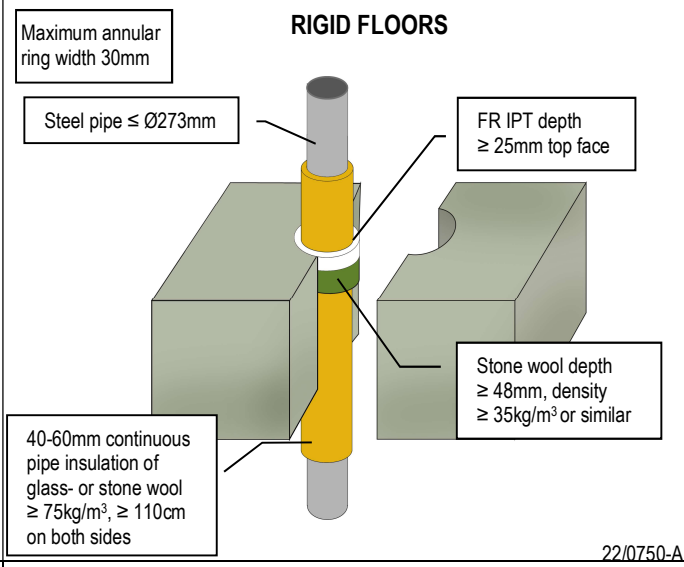

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STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 120)

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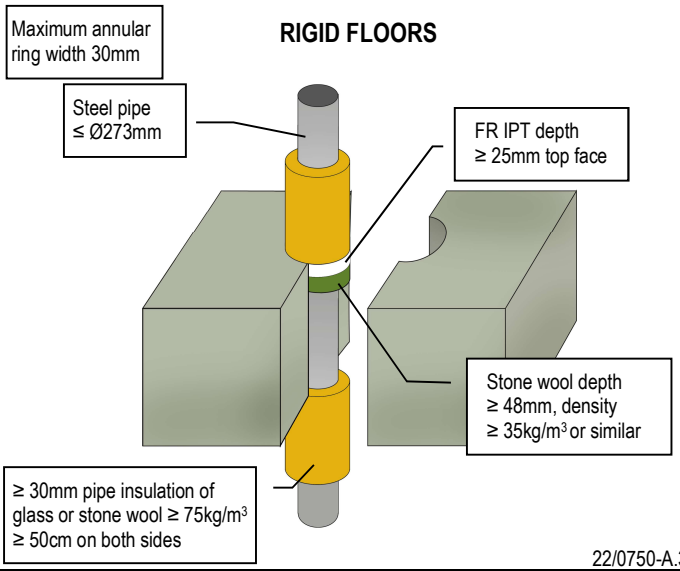

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STEEL PIPE FIRE RESISTANCE EI 120 C/U (E 120)

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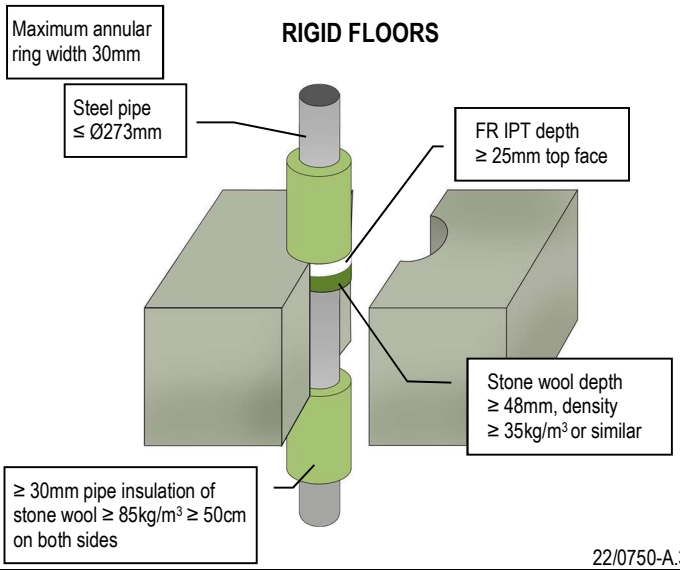

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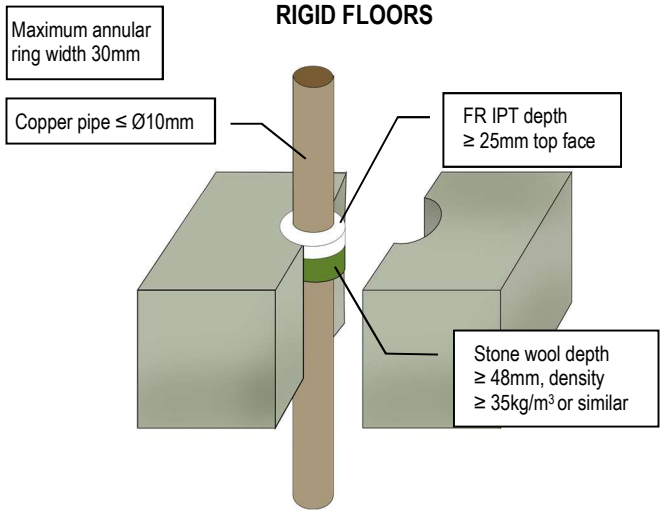
COPPER PIPE FIRE RESISTANCE EI 120 C/C (E 120)

RIGID FLOORS



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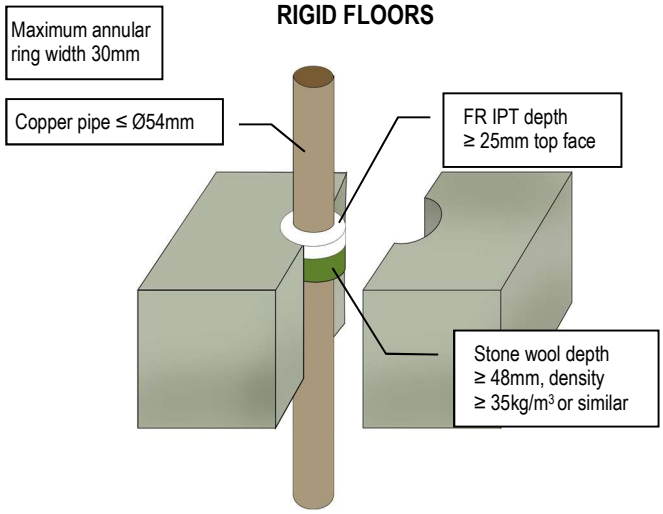
COPPER PIPE FIRE RESISTANCE E 240 C/C

RIGID FLOORS



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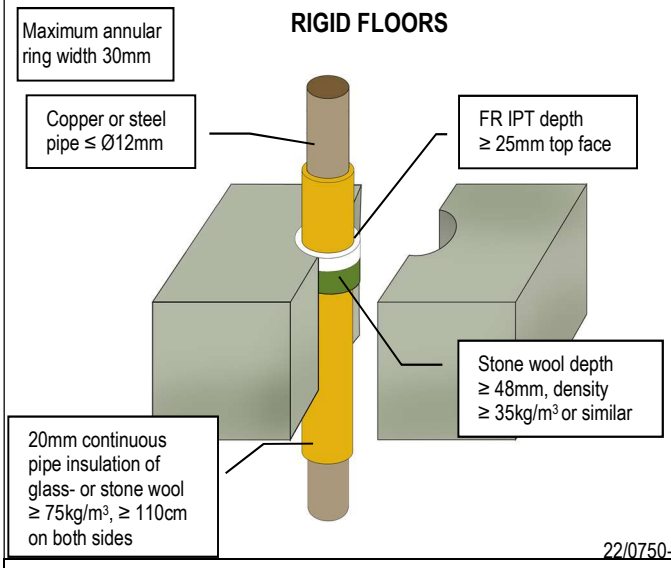
COPPER OR STEEL PIPE FIRE RESISTANCE EI 240 C/C (E 240)

RIGID FLOORS



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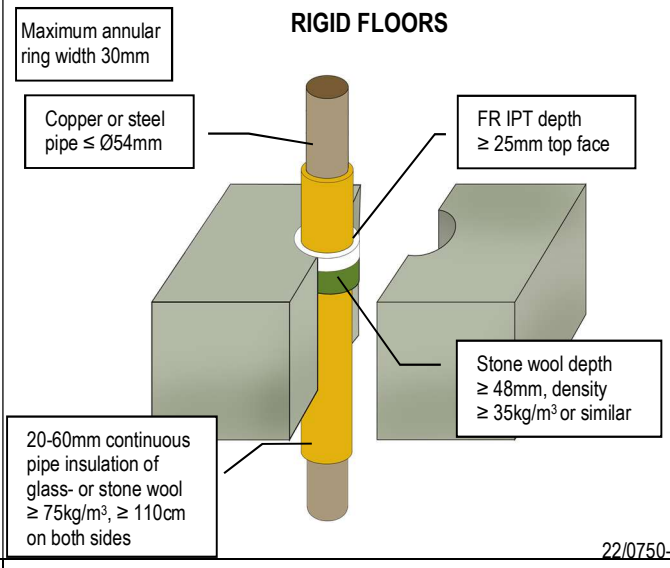
COPPER OR STEEL PIPE FIRE RESISTANCE EI 90 C/C (E 120)

RIGID FLOORS



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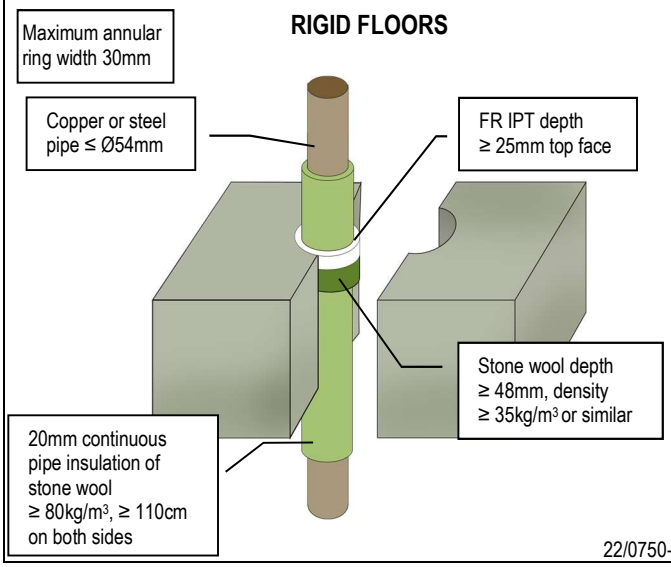
COPPER OR STEEL PIPE FIRE RESISTANCE EI 180 C/C (E 240)

RIGID FLOORS



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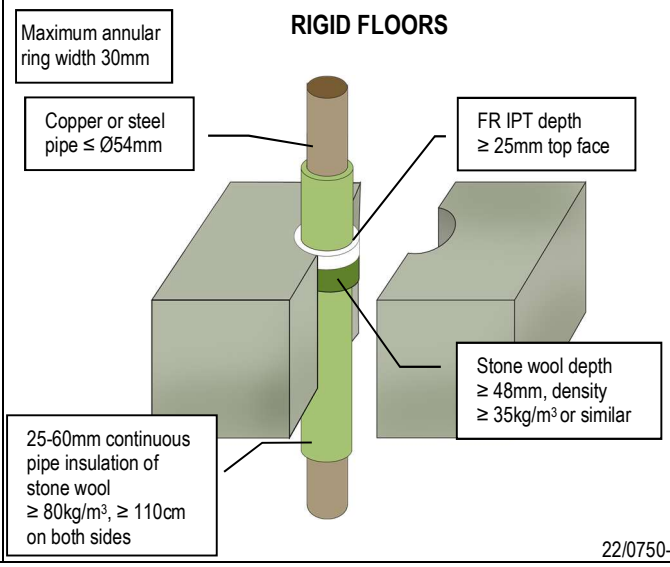
COPPER OR STEEL PIPE FIRE RESISTANCE EI 120 C/C (E 180)

RIGID FLOORS



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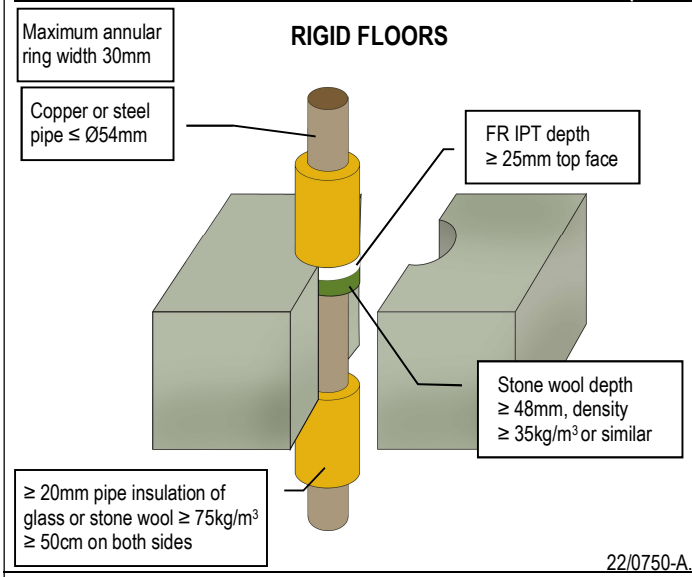
COPPER OR STEEL PIPE FIRE RESISTANCE EI 180 C/C (E 240)

RIGID FLOORS



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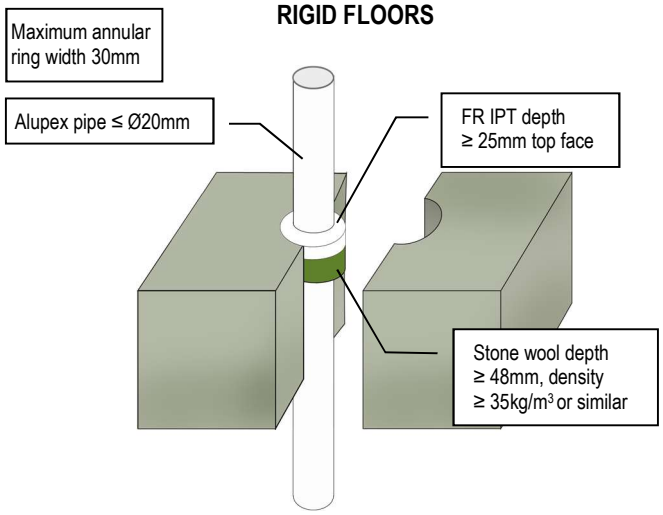
ALUPEX PIPE FIRE RESISTANCE EI 120 C/C (E 120)

RIGID FLOORS



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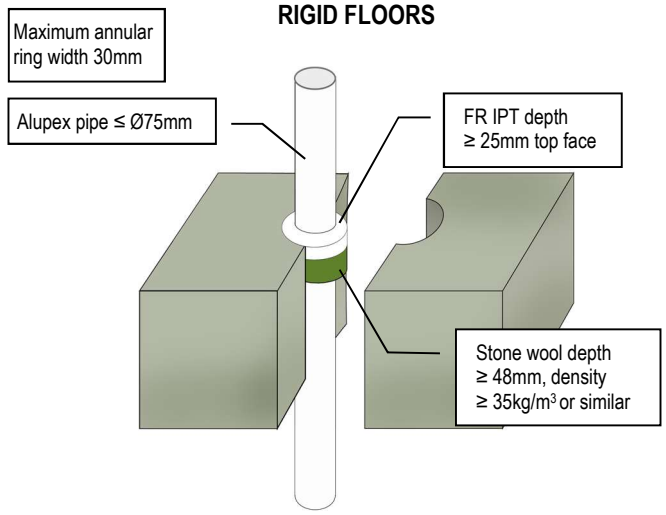
ALUPEX PIPE FIRE RESISTANCE EI 30 C/C (E 120)

RIGID FLOORS



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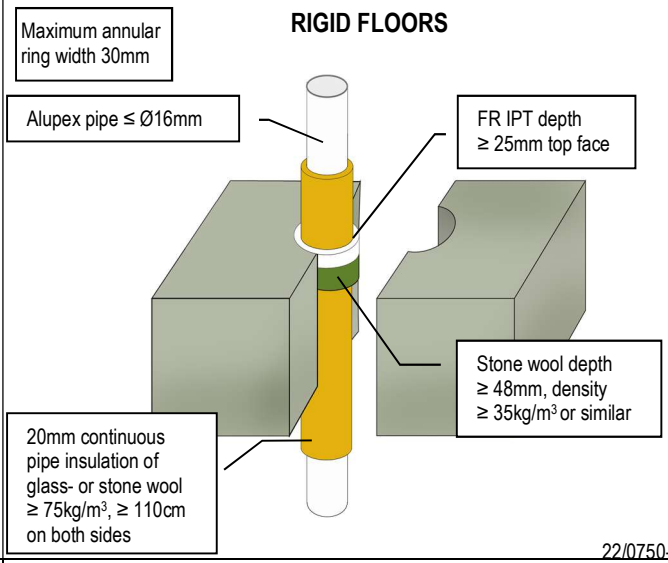
INSULATED ALUPEX PIPE FIRE RESISTANCE EI 240 C/C (E 240)

RIGID FLOORS



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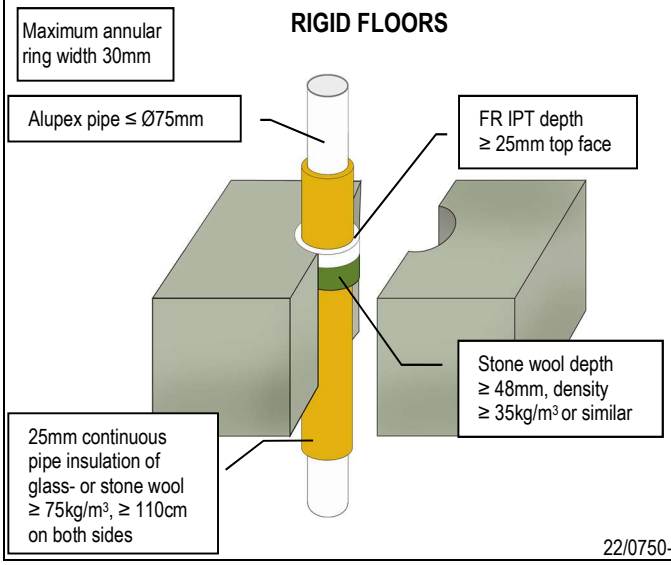
INSULATED ALUPEX PIPE FIRE RESISTANCE EI 180 C/C (E 240)

RIGID FLOORS



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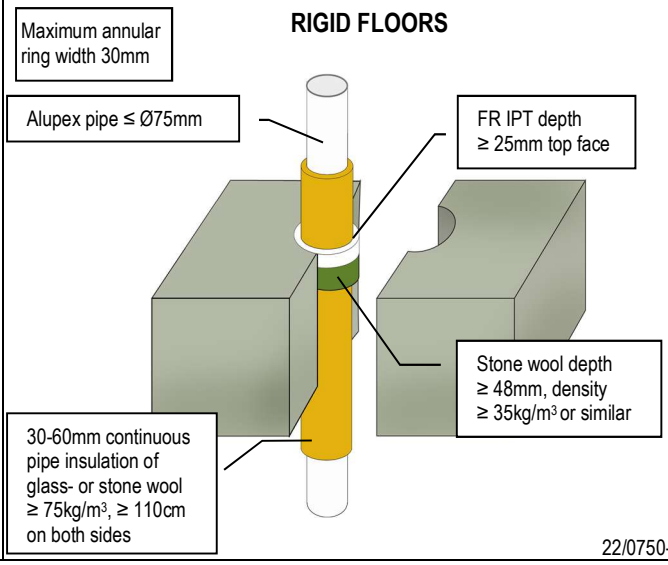
INSULATED ALUPEX PIPE FIRE RESISTANCE EI 120 C/C (E 120)

RIGID FLOORS



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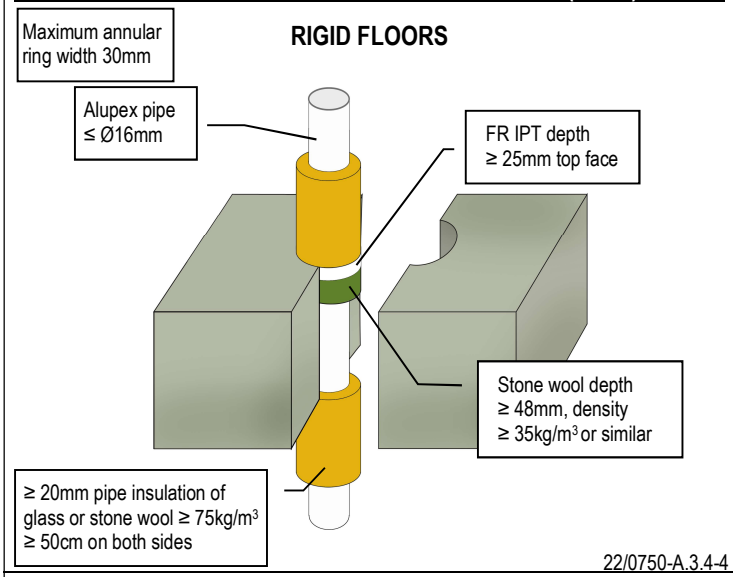
ALUPEX PIPE FIRE RESISTANCE EI 240 C/C (E 240)

RIGID FLOORS



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

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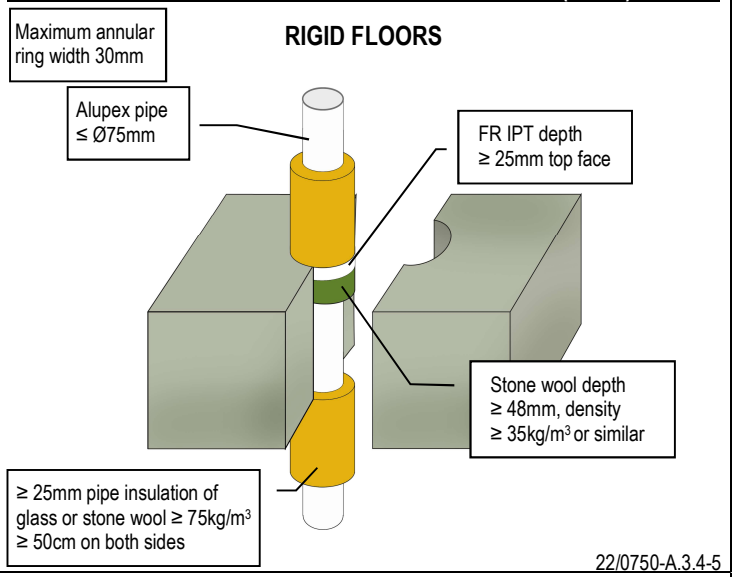

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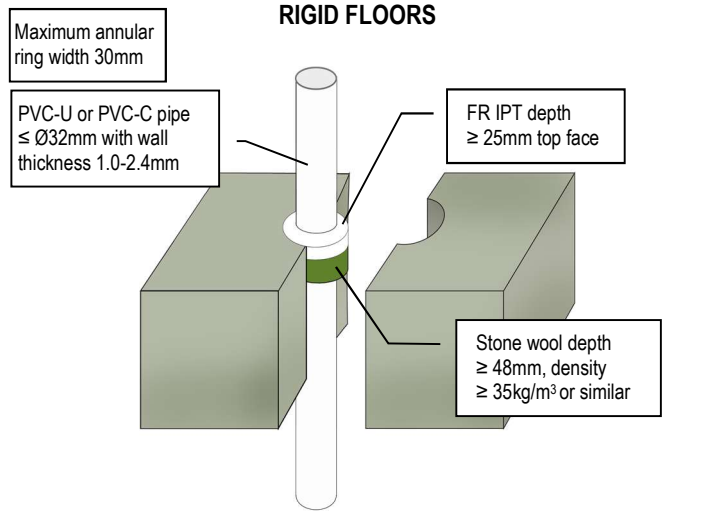
PVC PLASTIC PIPE FIRE RESISTANCE EI 120 U/C (E 120)

RIGID FLOORS



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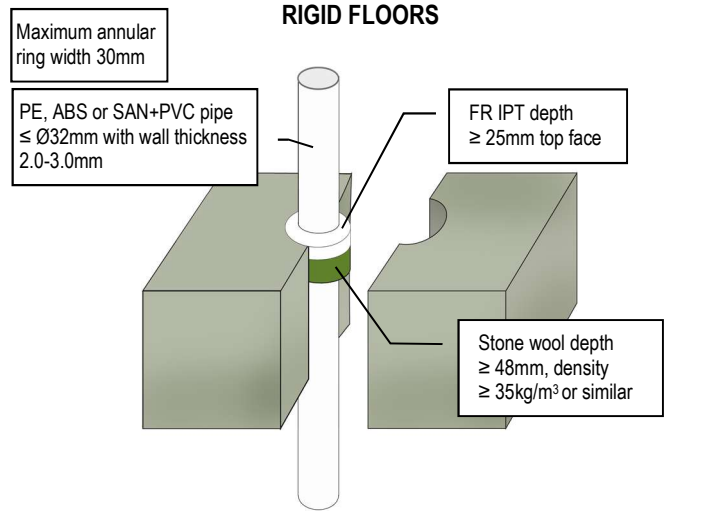
PE PLASTIC PIPE FIRE RESISTANCE EI 120 U/C (E 120)

RIGID FLOORS



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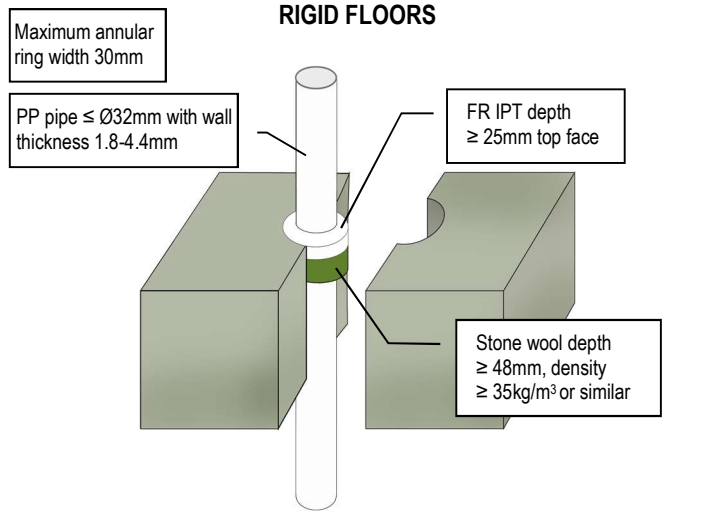
PP PLASTIC PIPE FIRE RESISTANCE EI 120 U/C (E 120)

RIGID FLOORS



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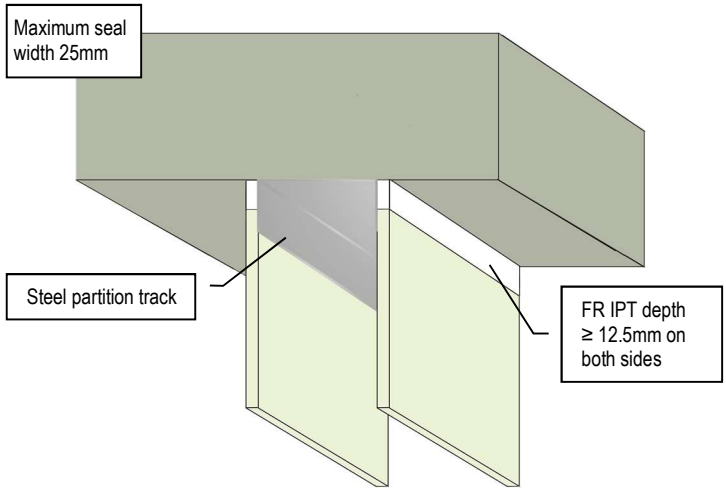
HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 45 (E 60)

BETWEEN ≥ 75MM DRYWALLS AND FLOORS



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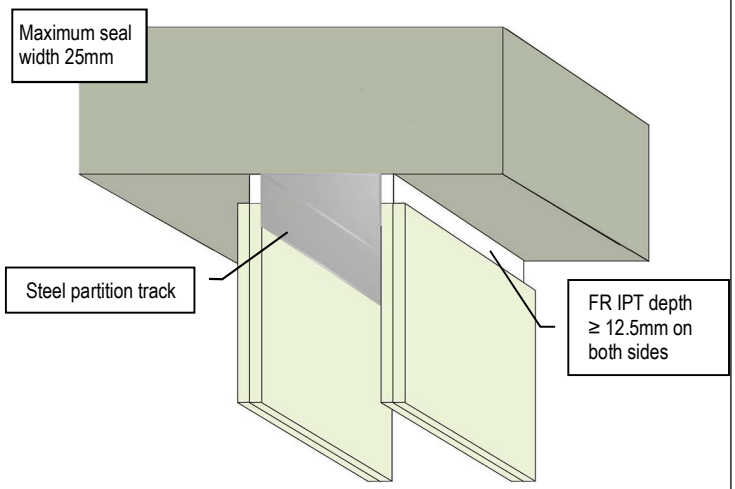
HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 90)

BETWEEN ≥ 100MM DRYWALLS AND FLOORS



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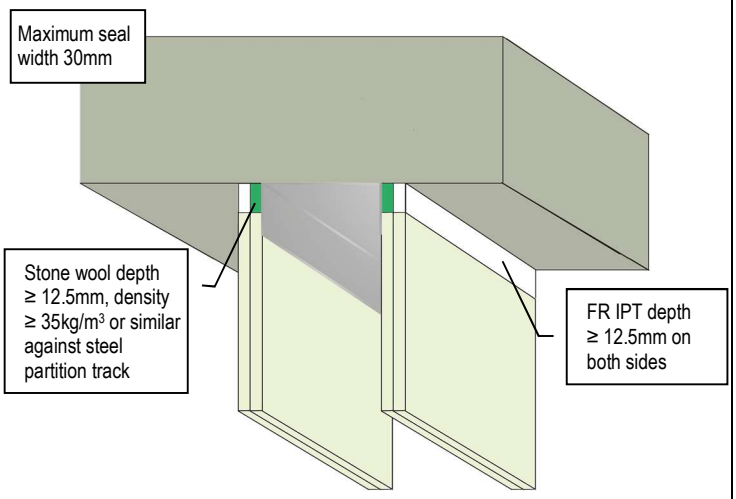
HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 120)

BETWEEN ≥ 100MM DRYWALLS AND FLOORS



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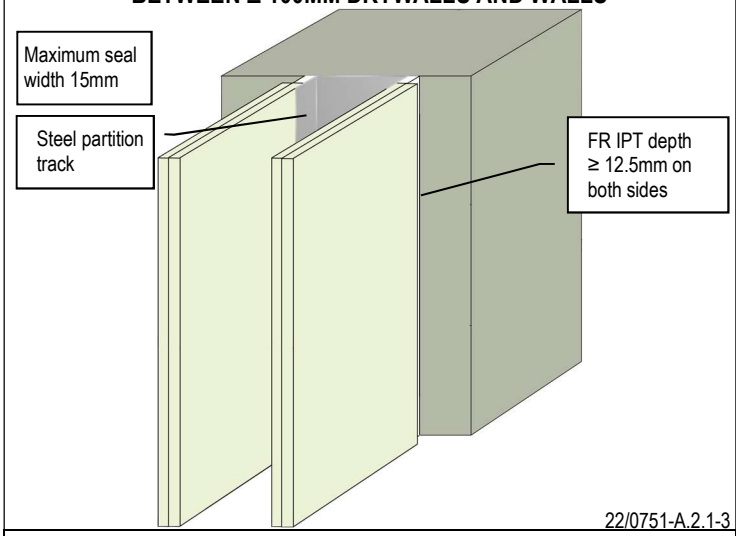
VERTICAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 120)

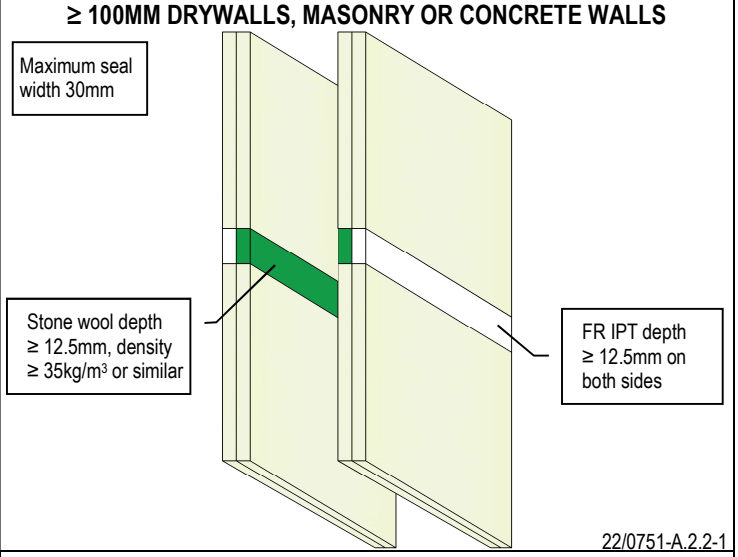
BETWEEN ≥ 100MM DRYWALLS AND WALLS



22/0751-A.2.1-3

HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 120)

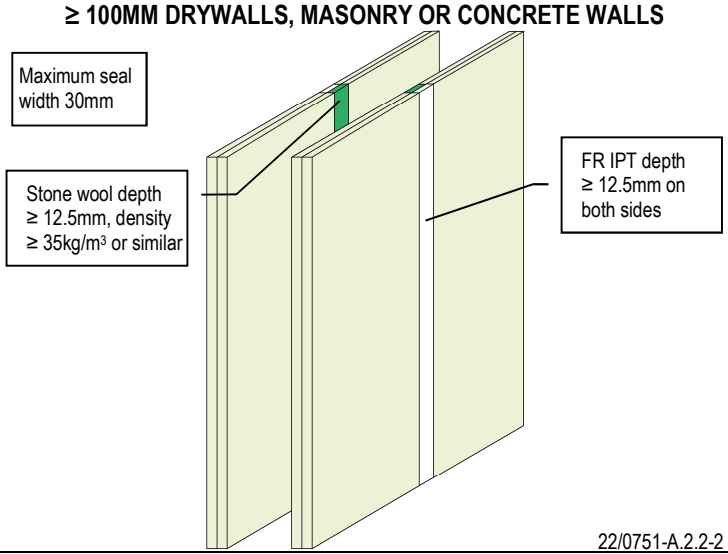
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0751-A.2.2-1

VERTICAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 120)

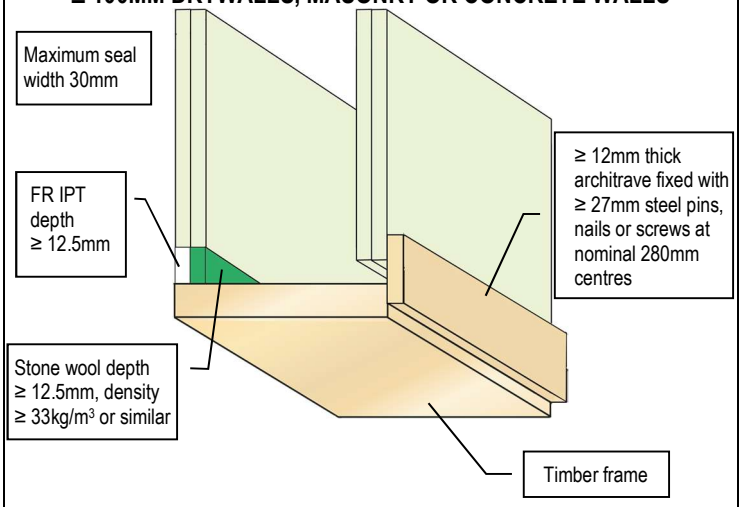
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0751-A.2.2-2

HORIZONTAL SEALS FIRE RESISTANCE EI 30 (E 30)

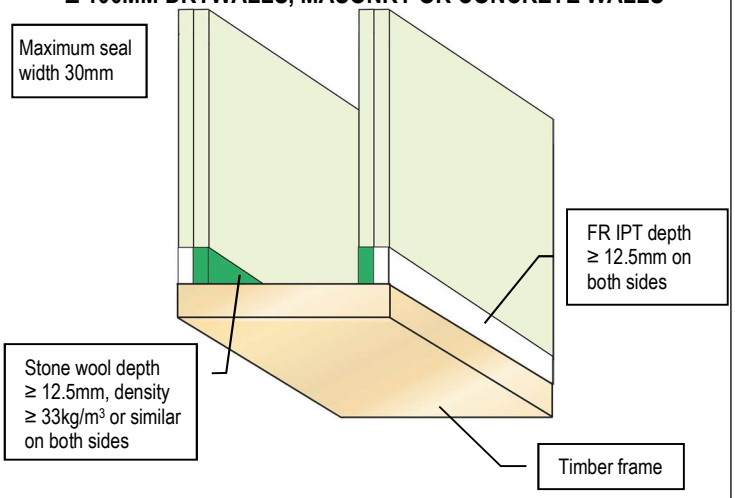
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0751-A.2.3-1

HORIZONTAL SEALS FIRE RESISTANCE EI 90 (E 90)

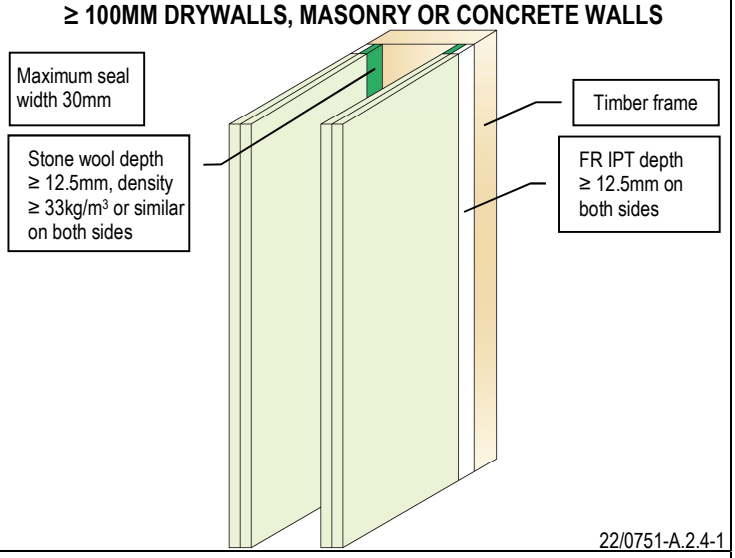
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0751-A.2.4-2

VERTICAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 60)

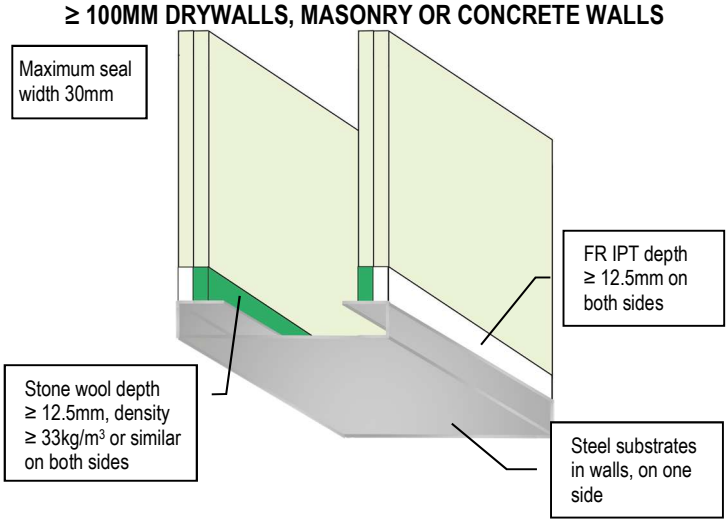
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0751-A.2.4-1

HORIZONTAL SEALS FIRE RESISTANCE EI 30 (E 120)

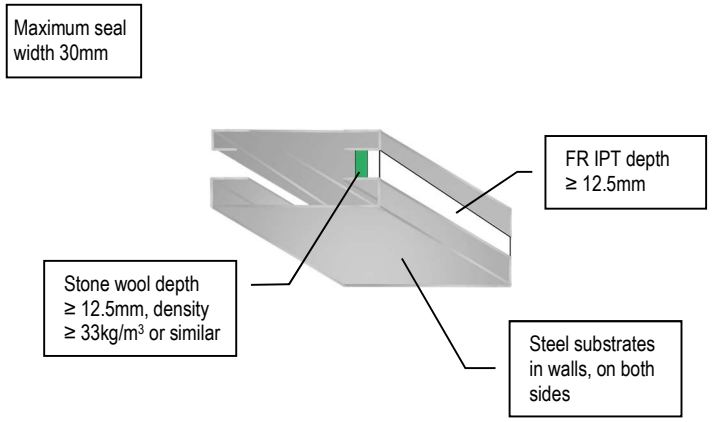
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0751-A.2.3-3

HORIZONTAL SEALS FIRE RESISTANCE EI 30 (E 120)

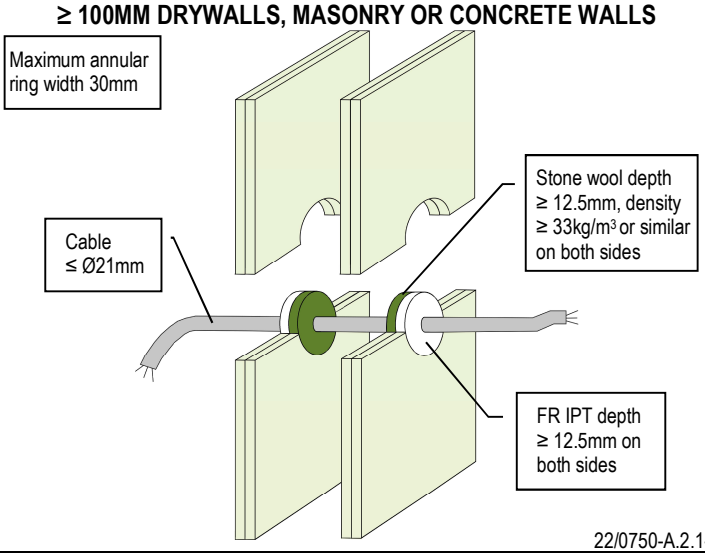
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0751-A.2.3-2

CABLE FIRE RESISTANCE EI 60 (E 90)

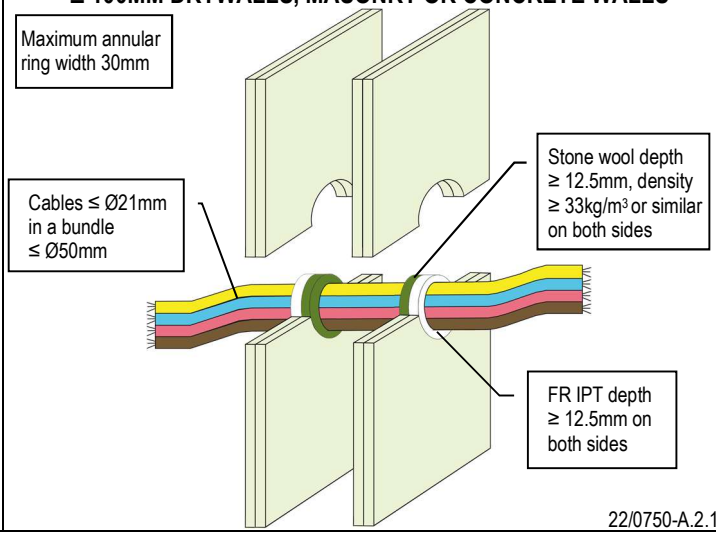
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.1-1

CABLES FIRE RESISTANCE EI 60 (E 60)

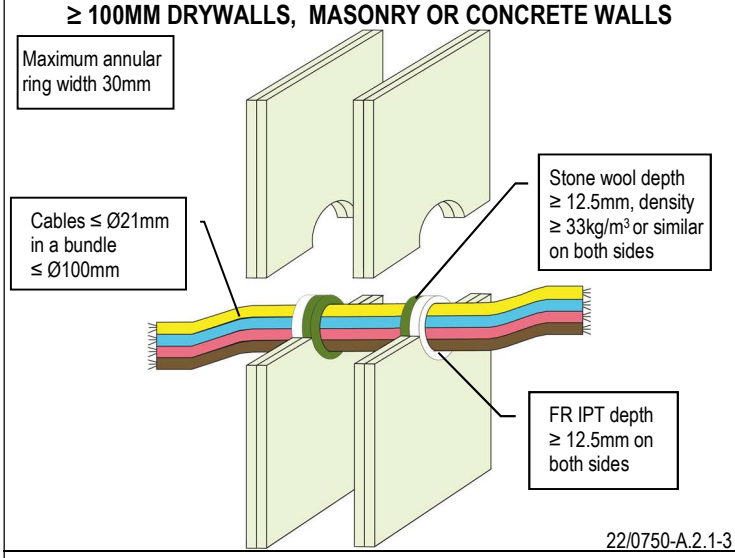
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.1-2

CABLES FIRE RESISTANCE EI 45 (E 60)

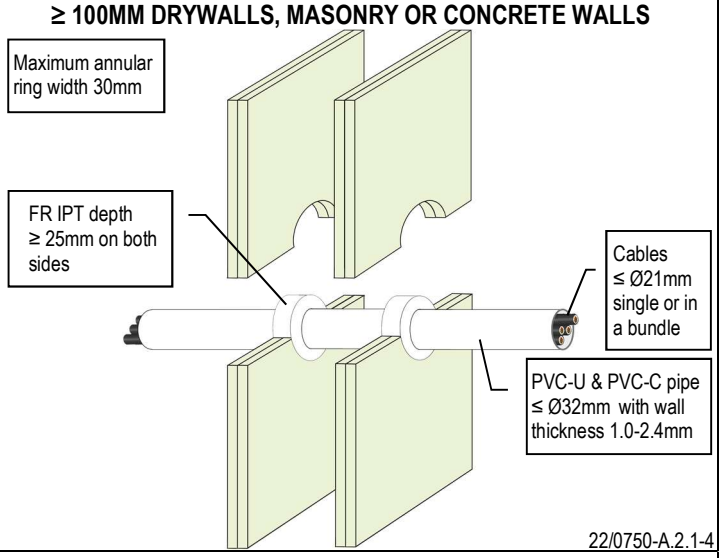
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.1-3

PVC CONDUIT FIRE RESISTANCE EI 60 C/C (E 90)

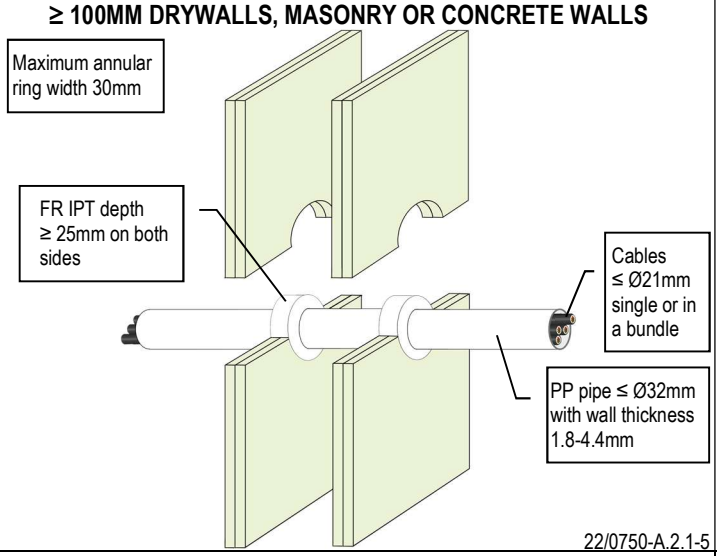
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.1-4

PP CONDUIT FIRE RESISTANCE EI 60 C/C (E 90)

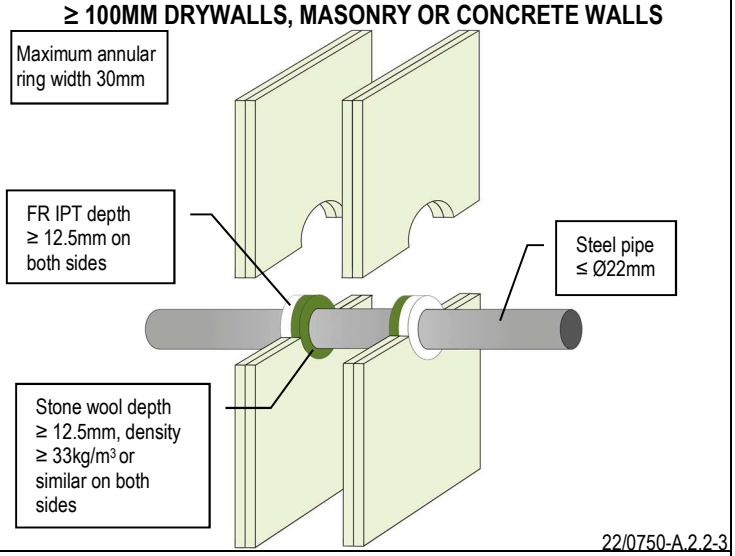
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.1-5

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

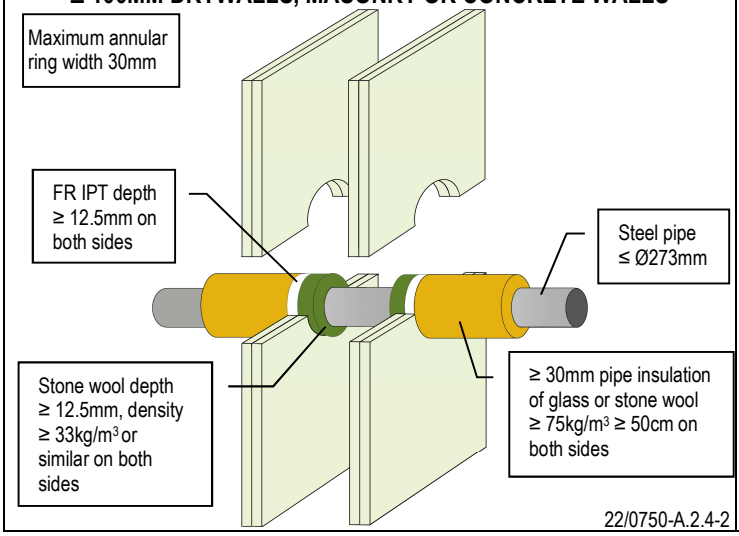
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.2-3

STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 90)

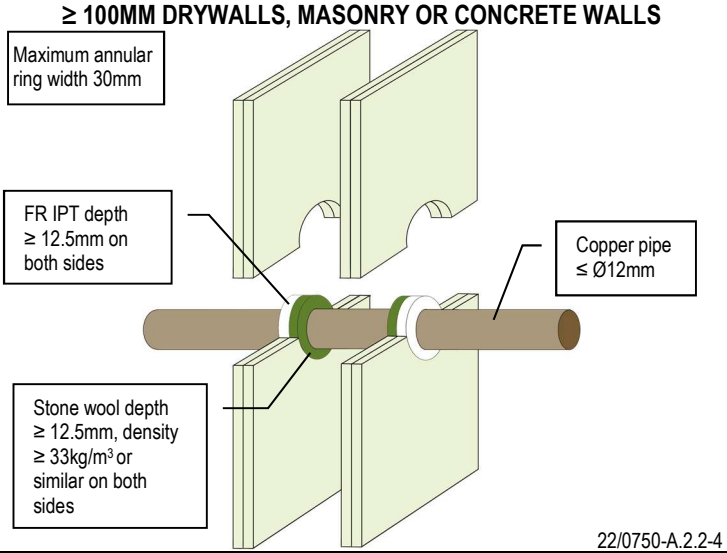
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.4-2

COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 120)

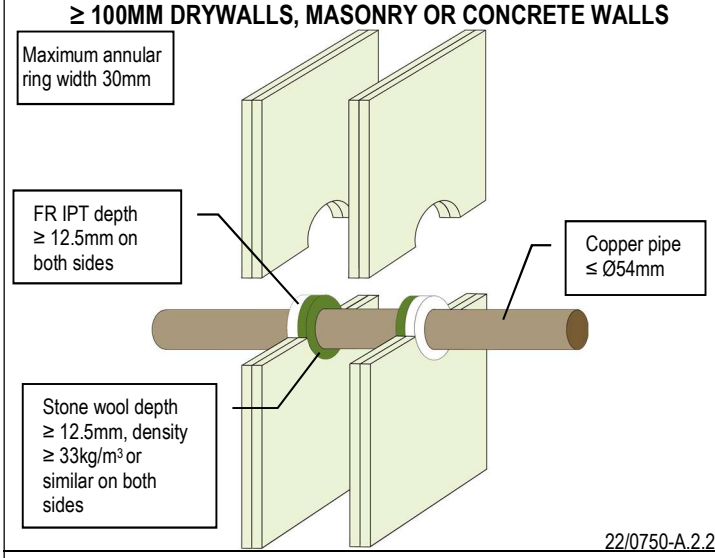
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.2-4

COPPER PIPE FIRE RESISTANCE E 90 C/C

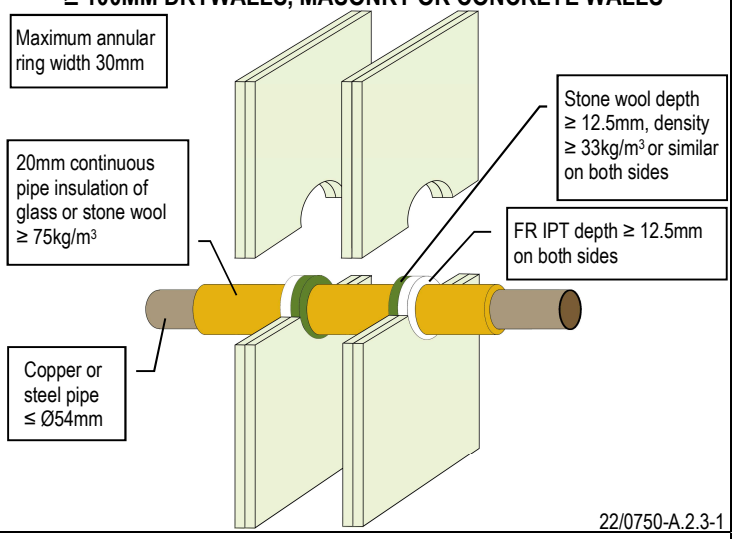
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.2-5

COPPER OR STEEL PIPE FIRE RESISTANCE EI 90 C/U (E 90)

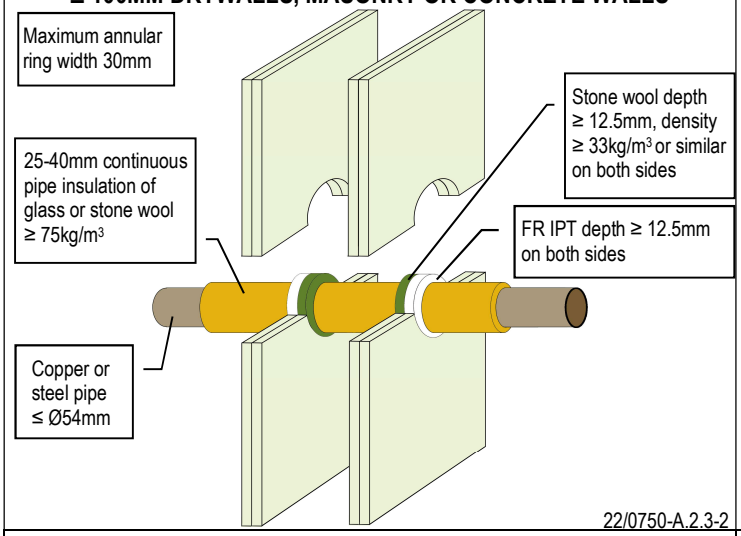
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.3-1

COPPER OR STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 90)

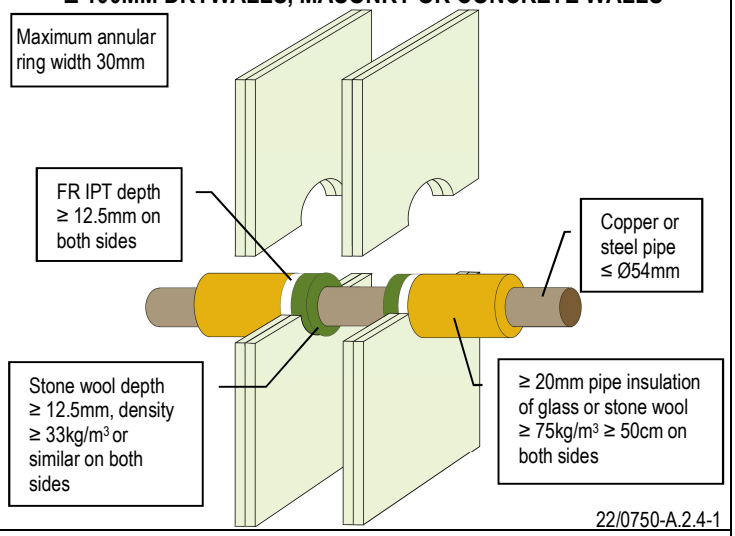
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.3-2

COPPER OR STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 90)

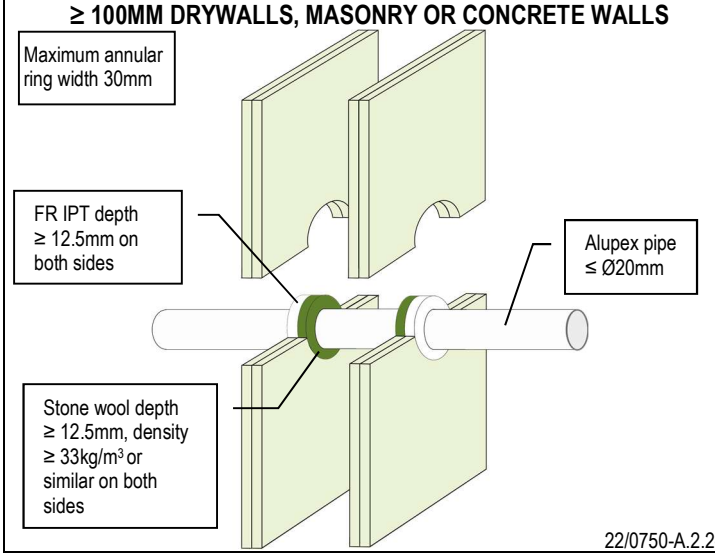
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.4-1

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

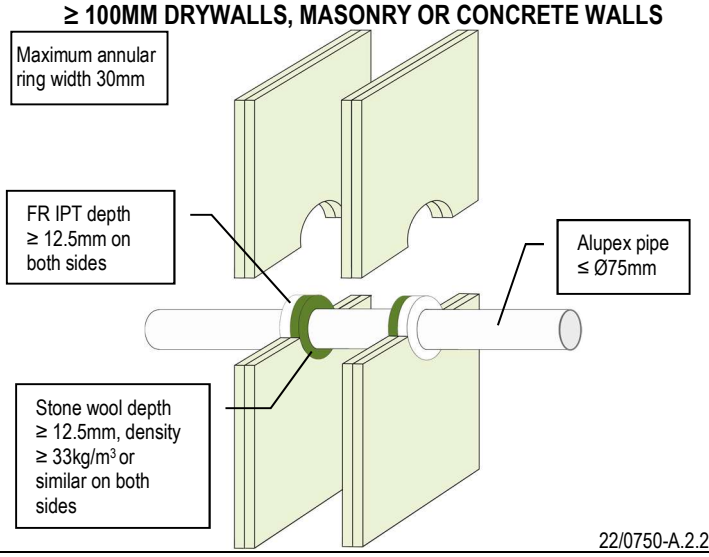
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.2-1

ALUPEX PIPE FIRE RESISTANCE EI 15 C/C (E 90)

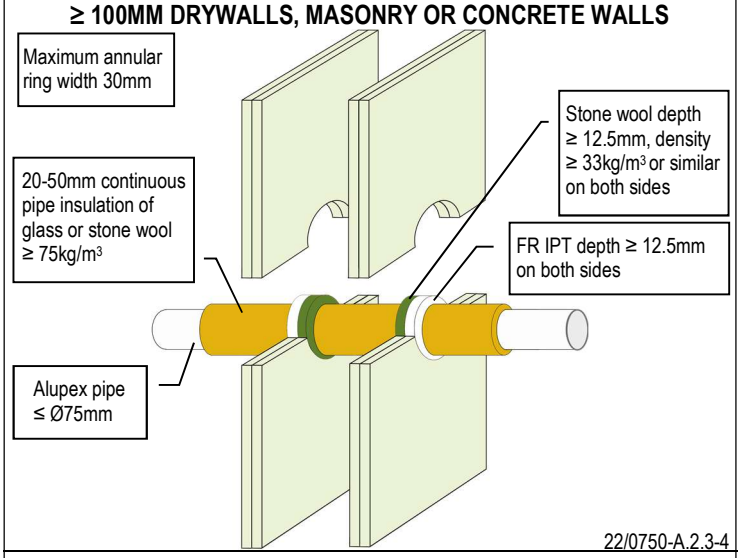
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.2-2

INSULATED ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 90)

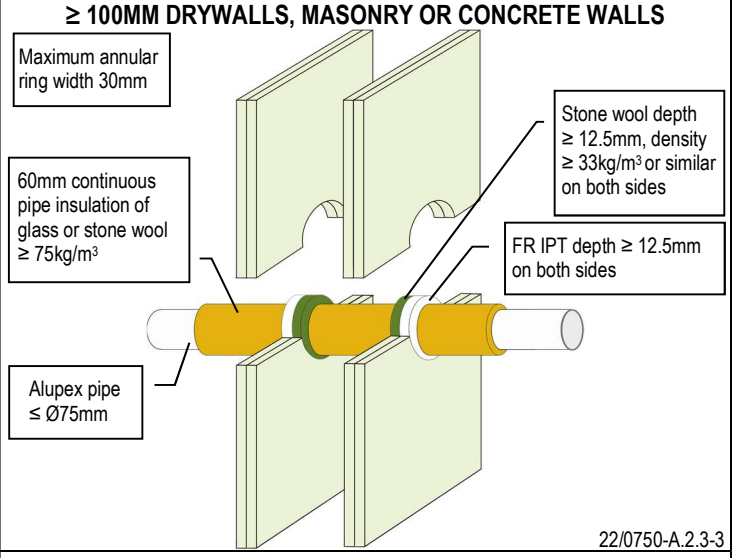
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.3-4

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

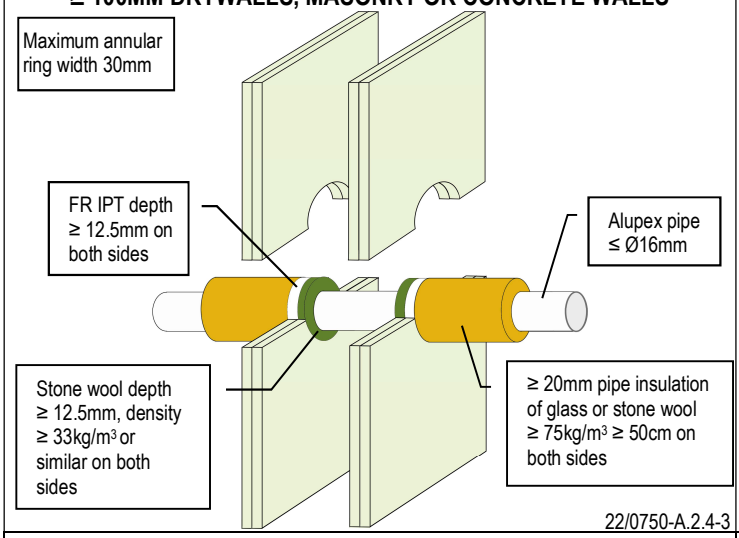
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.3-3

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

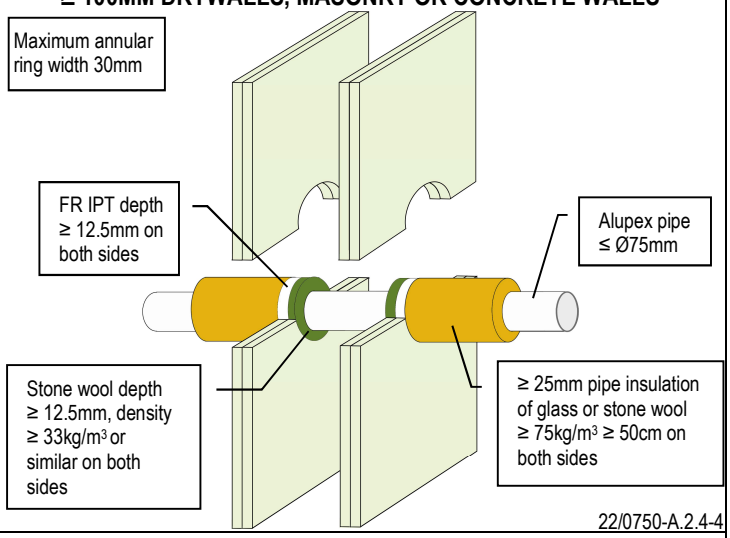
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.4-3

ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 120)

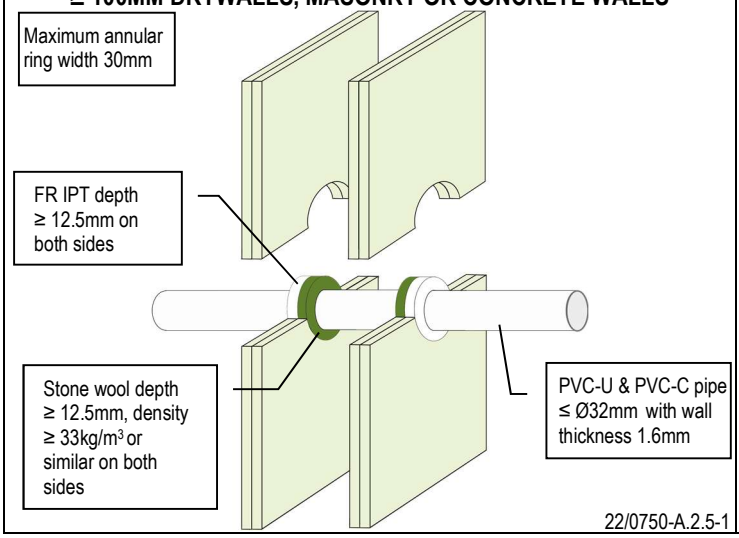
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.4-4

PVC PLASTIC PIPE FIRE RESISTANCE EI 60 C/C (E 90)

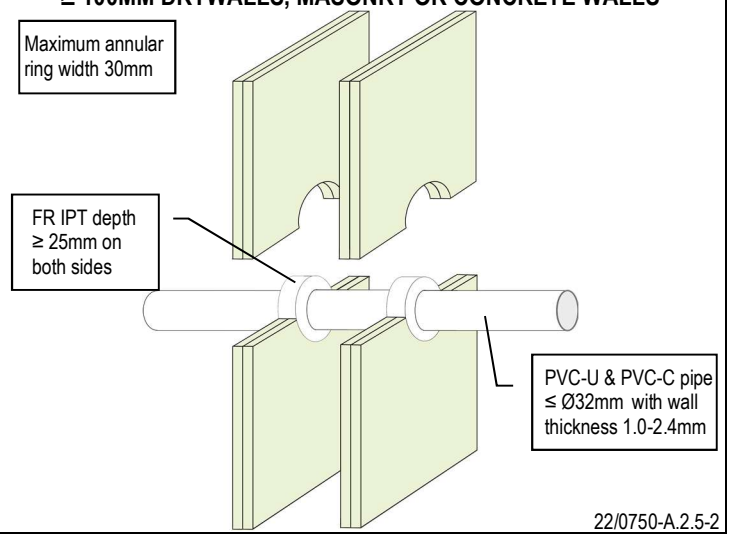
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.5-1

PVC PLASTIC PIPE FIRE RESISTANCE EI 90 C/C (E 90)

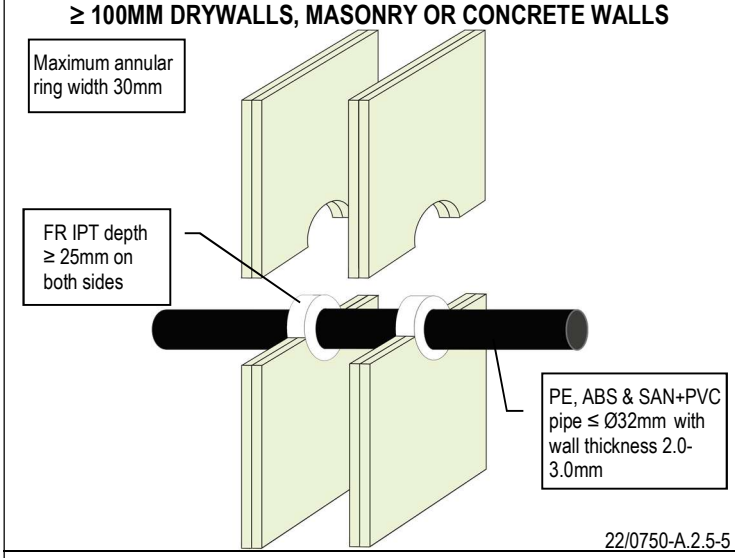
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.5-2

PE PLASTIC PIPE FIRE RESISTANCE EI 90 C/C (E 90)

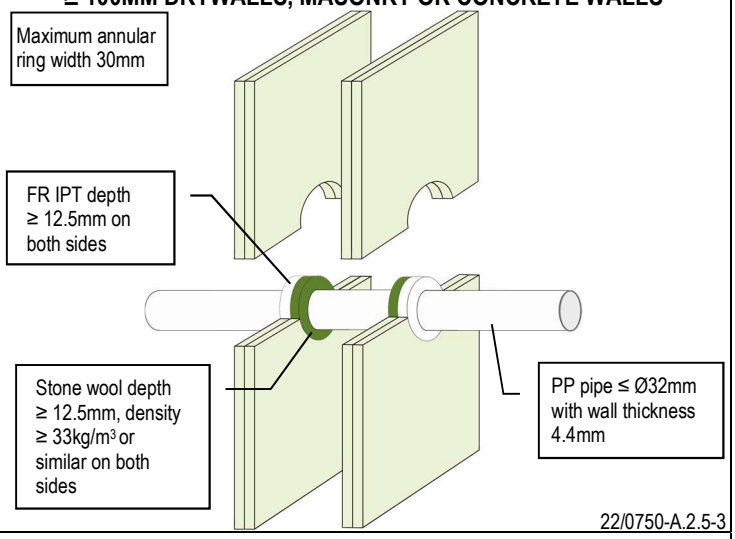
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.5-5

PP PLASTIC PIPE FIRE RESISTANCE EI 60 C/C (E 90)

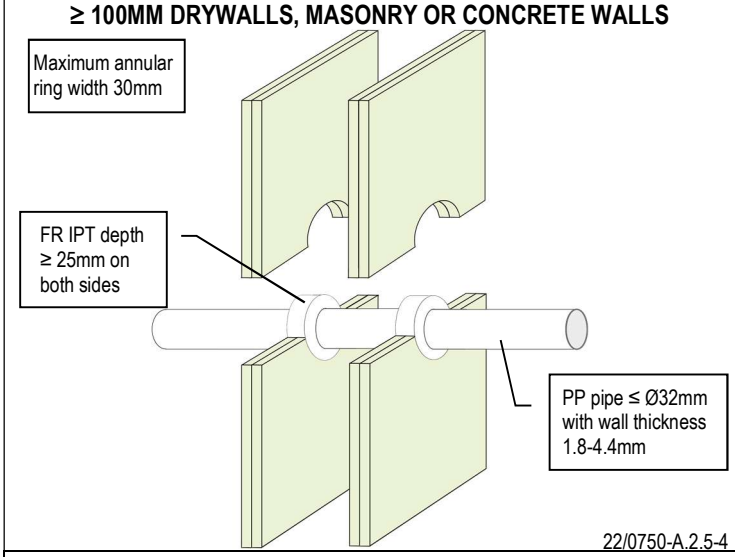
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.5-3

PP PLASTIC PIPE FIRE RESISTANCE EI 90 C/C (E 90)

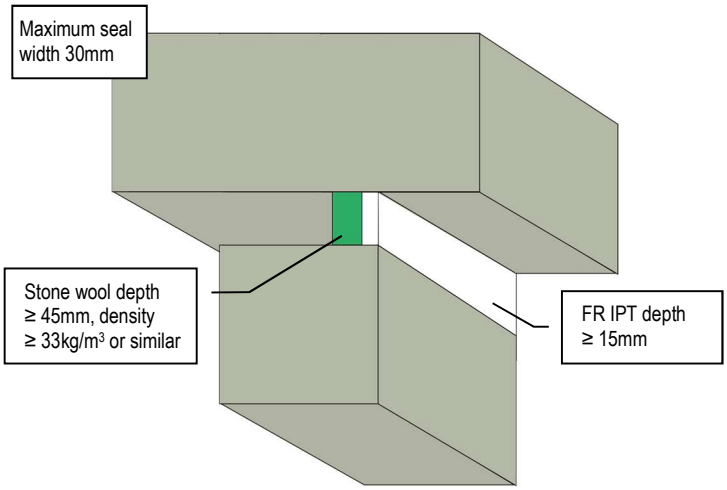
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



22/0750-A.2.5-4

HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 240)

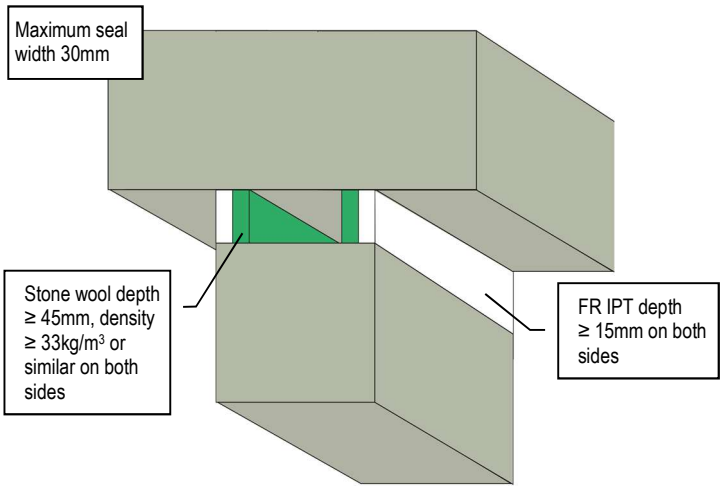
≥ 150MM MASONRY OR CONCRETE WALLS



22/0751-A.3.1-1

HORIZONTAL SEALS FIRE RESISTANCE EI 240

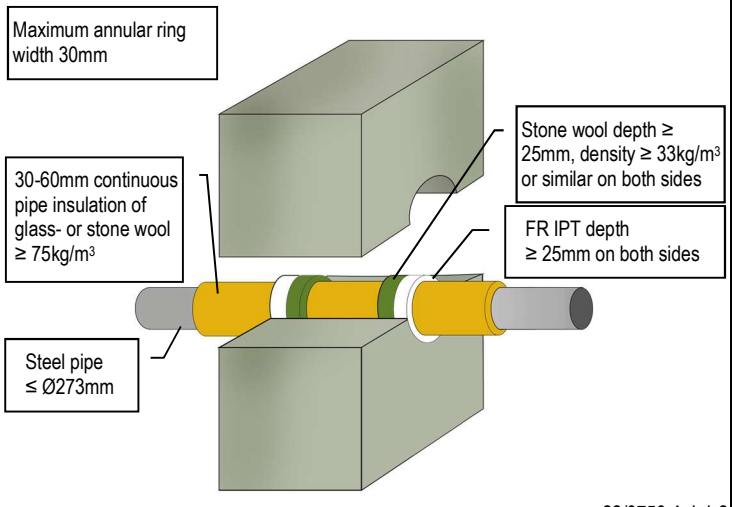
≥ 150MM MASONRY OR CONCRETE WALLS



22/0751-A.3.1-2

INSULATED STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 90)

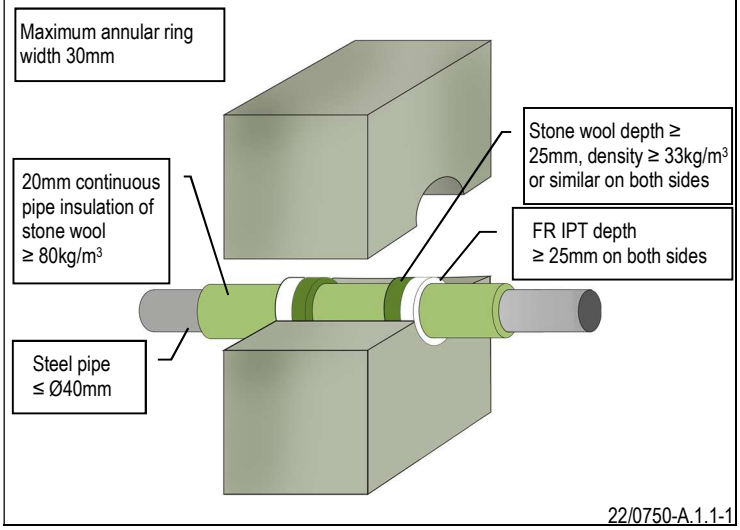
≥ 150MM MASONRY OR CONCRETE WALLS



22/0750-A.1.1-2

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

≥ 150MM MASONRY OR CONCRETE WALLS



22/0750-A.1.1-1