isover
SAINT-GOBAIN


# Isover Protect Acrylic

## Fire stopping & sealing

Installation Instructions

SAINT-GOBAIN

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# General Guide

Isover Protect Acrylic is designed to prevent the spread of fire, smoke and gases through openings in fire rated walls and floors. Isover Protect Acrylic should be applied over suitable backing materials to ensure correct width to depth ratio, and to reduce shrinkage of the joint during hardening.

**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 10mm to allow for correct fitting of backing and seal depth. Minimum separation between apertures should be at least 30mm, except in timber constructions where apertures can be placed linear (horizontally in walls) with no required separation. For larger joint dimensions or apertures other than described in the detailed drawings, Isover Protect Coated Board or Isover Protect Mortar should be used. In areas with a high degree of humidity and/or in joints with excessive movement, Isover Protect IPT should be used.

**Supporting constructions:** Flexible walls must have a minimum thickness of 75mm and comprise steel studs or timber studs*) lined on both faces with minimum 1 layer of 12.5mm thick boards. Timber walls must have a minimum thickness of 100mm and comprise solid wood or cross-laminated timber. Rigid walls must have a minimum thickness of 75mm and comprise concrete, aerated concrete or masonry, with a minimum density of 350 kg/m3 (650 kg/m3 in rigid wall details). Rigid floors must have a minimum thickness of 150mm (except composite floors) and comprise aerated concrete or concrete with a minimum density of 650 kg/m3. Timber floors must have a minimum thickness of 150mm and comprise solid wood or cross-laminated timber. The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period. Services shall be supported at maximum 350mm away from both faces of the wall constructions and 550mm from the upper face of floor constructions.

*) Timber studs: no part of the penetration seal may be closer than 100mm to a stud, and minimum 100mm 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. In linear seals, there is no minimum distance and insulation required.

# Installation

1. Before installing Isover Protect Acrylic, ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.

2. Where Isover Protect Acrylic is to be installed against surfaces that cannot tolerate direct contact; appropriate surface preparation should be made (contact Isover for guidance in these cases). For paints sensitive to sealing compounds, priming with a PVA primer is recommended.

3. As Isover Protect Acrylic is water based, 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.

4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Isover Protect Acrylic diluted with water to prime the surfaces, helping adhesion and preventing excessive joint shrinkage.

5. When installing Isover Protect Acrylic in hollow floor slabs or boards, fire seals specified as single sided should be installed from the soffit side of the floor assuming there is sufficient thickness of concrete below the void to follow the installation guide. Where this is not the case, tubular voids should be filled with stone wool, normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.

6. Where single sided top face seals are described, these can also be used in composite floors (e.g., concrete filled, steel trapezoidal decking).

7. An aperture with or without penetrating services, can include a steel or plastic sleeve casted or friction fitted within rigid constructions. Plastic sleeves should have a maximum wall thickness of 14.6 mm.

8. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.

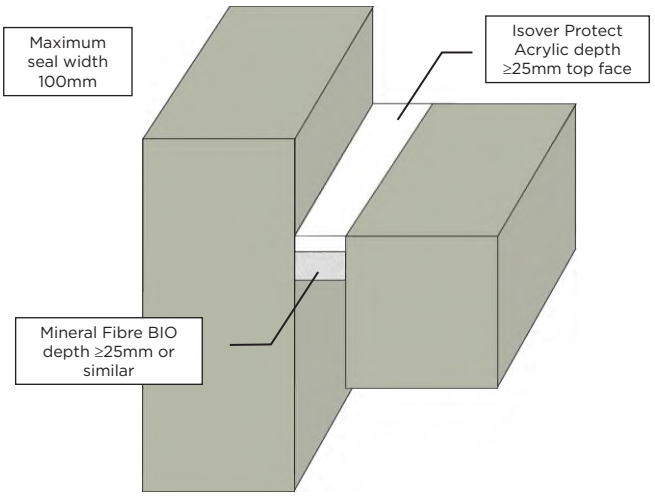
9. Fill the gap or joint with Isover Protect Acrylic to the required depth. Refer to the drawings for guidance on joint design/dimensions.
   If installation does not have to meet any specific fire specification, it is recommended that a width to depth ratio of 2:1 is utilized, with a minimum depth of 12mm of sealant.

10. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.

11. Isover Protect Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.

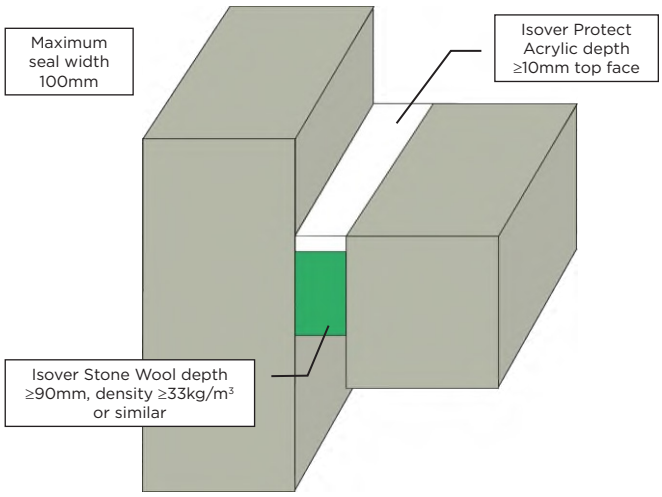
## LINEAR SEALS FIRE RESISTANCE EI 180 (E 180)

### IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS



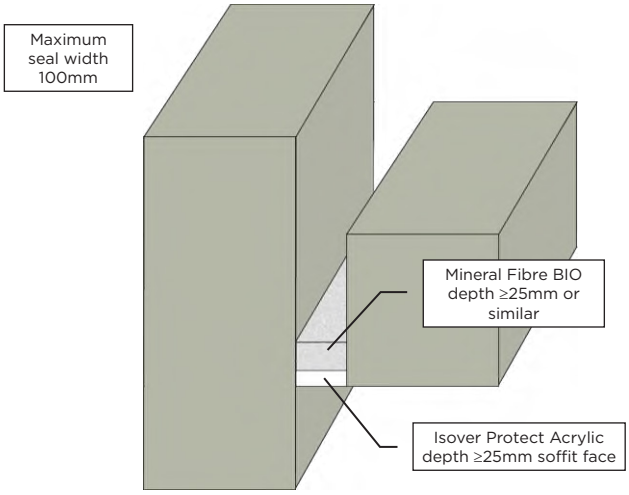

## LINEAR SEALS FIRE RESISTANCE EI 240 (E 240)

### IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS



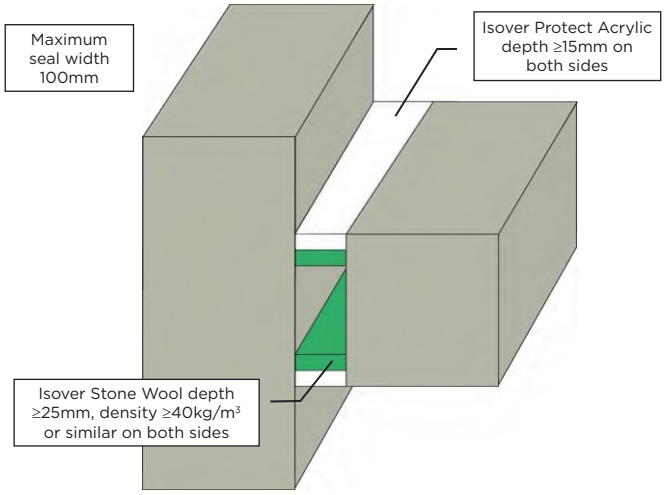

## LINEAR SEALS FIRE RESISTANCE EI 60 (E 120)

### IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS



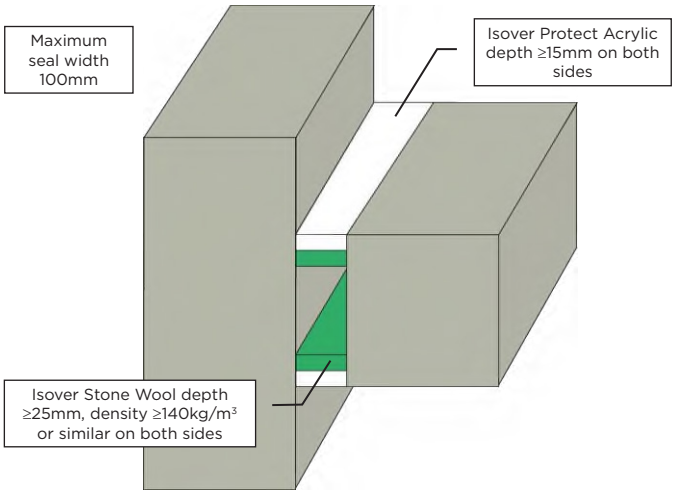

## LINEAR SEALS FIRE RESISTANCE EI 120 (E 120)

### IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS



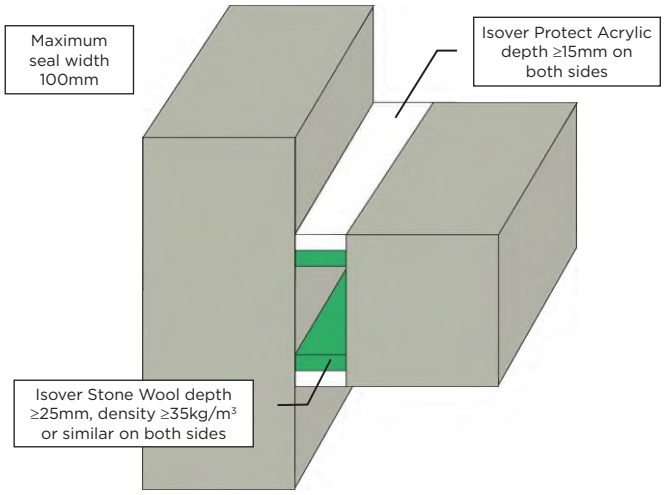

## LINEAR SEALS FIRE RESISTANCE EI 180 (E 180)

### IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS




## LINEAR SEALS FIRE RESISTANCE EI 240 (E 240)

### IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS



## LINEAR SEALS FIRE RESISTANCE EI 30 (E 240)

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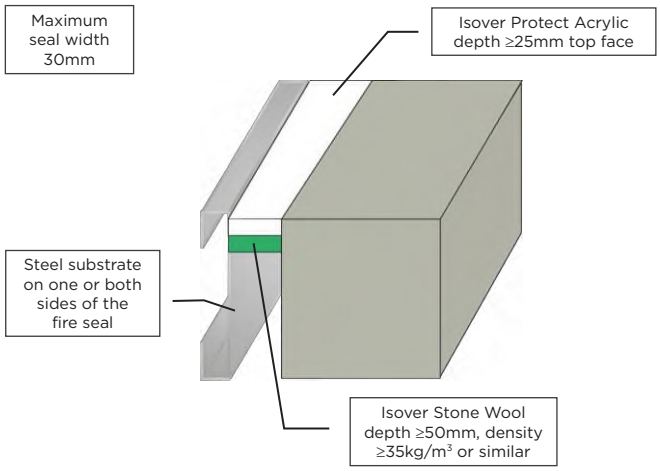


## LINEAR SEALS FIRE RESISTANCE EI 60 (E 240)

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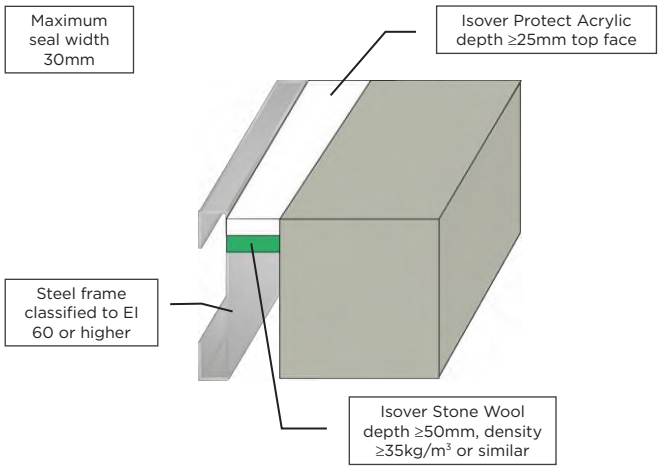


## LINEAR SEALS FIRE RESISTANCE EI 45 (E 240)

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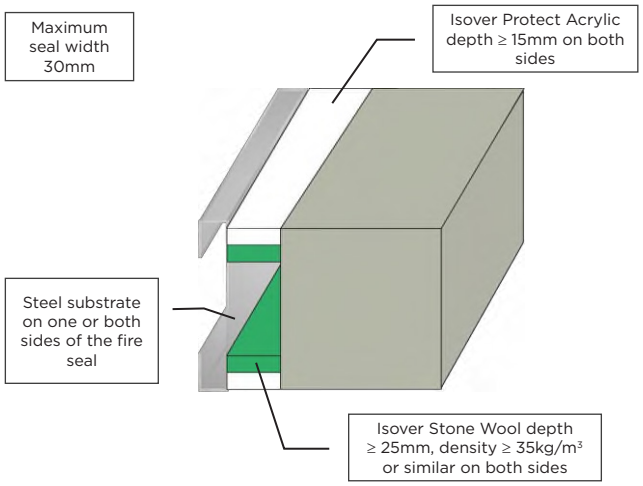


## LINEAR SEALS FIRE RESISTANCE EI 120 (E 240)

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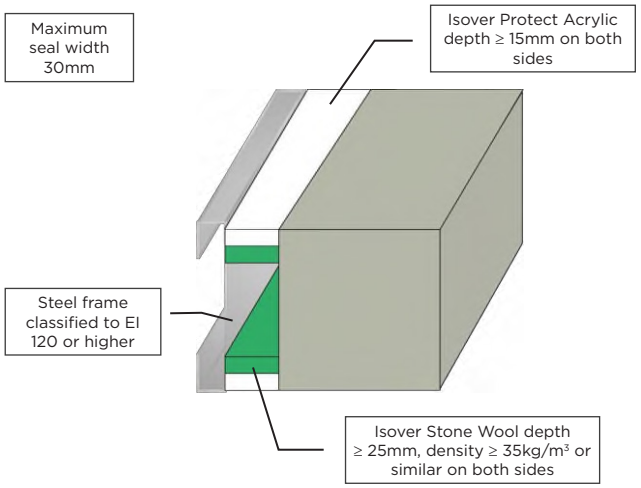


## LINEAR SEALS FIRE RESISTANCE EI 20 (E 180)

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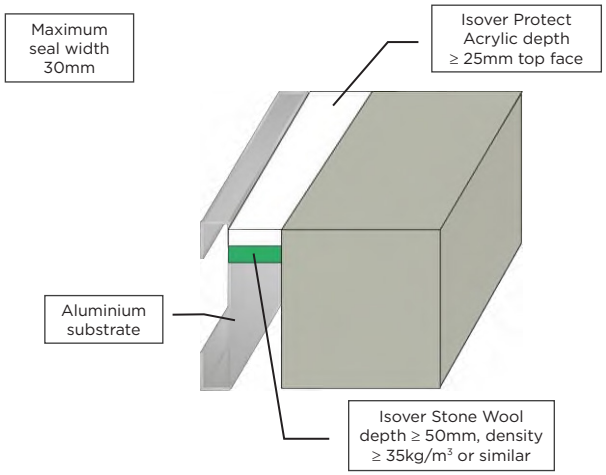
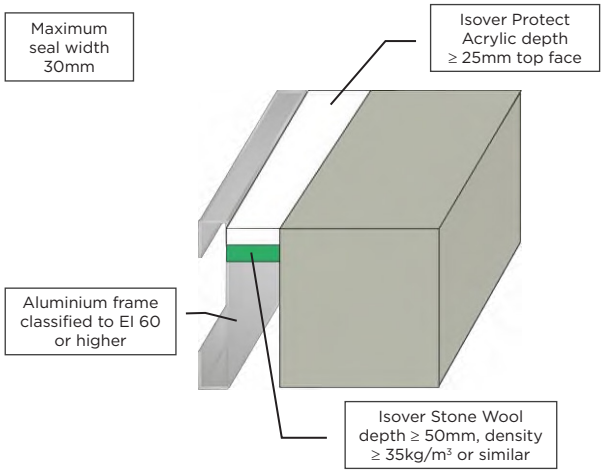



## LINEAR SEALS FIRE RESISTANCE EI 60 (E 180)

### IN RIGID FLOORS OR BETWEEN FLOORS AND WALLS



## CABLE FIRE RESISTANCE EI 60 (E 120)

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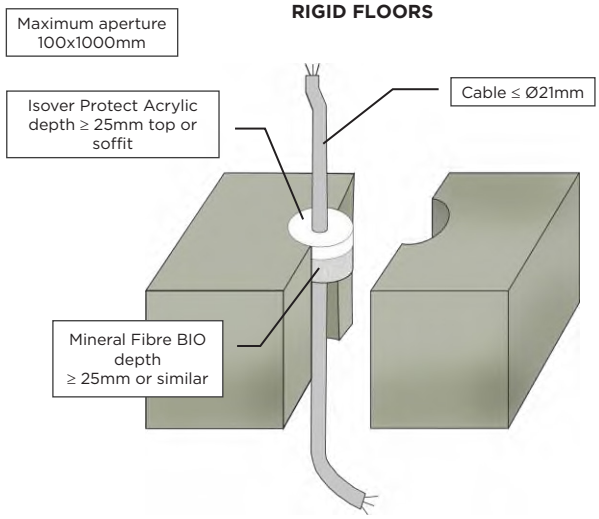


## CABLE FIRE RESISTANCE EI 90 (E 120)

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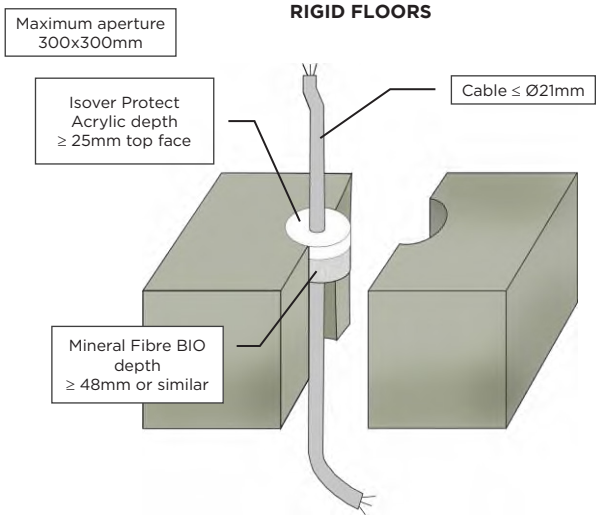
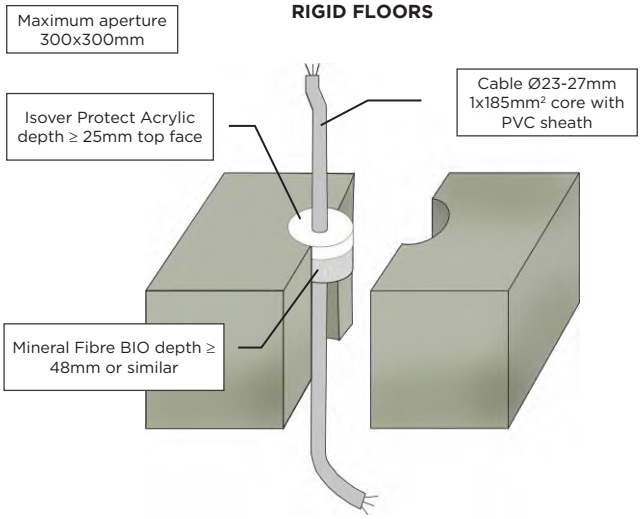



## CABLE FIRE RESISTANCE EI 240 (E 240)

**RIGID FLOORS**




## CABLES FIRE RESISTANCE EI 120 (E 120)

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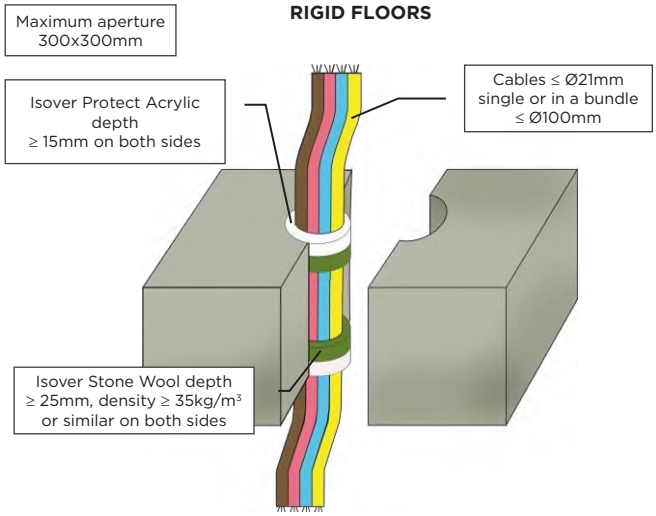


## CABLES FIRE RESISTANCE EI 90 (E 120)

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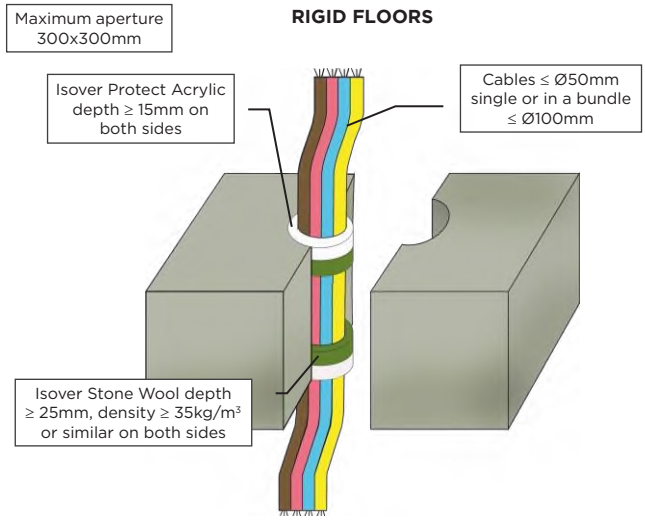


## CABLES FIRE RESISTANCE EI 60 (E 120)

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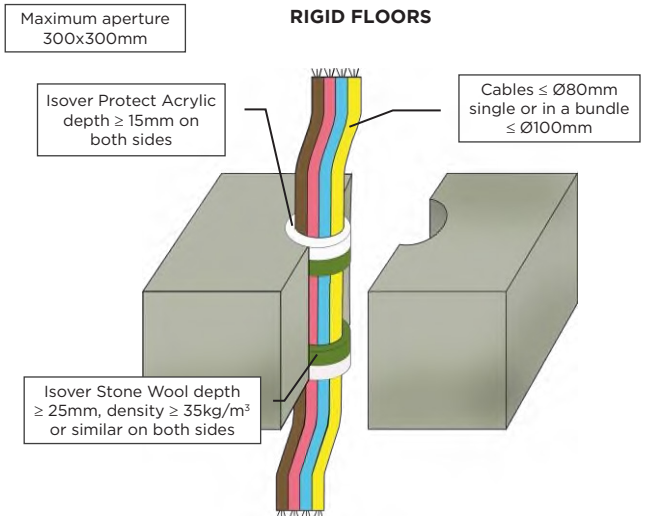
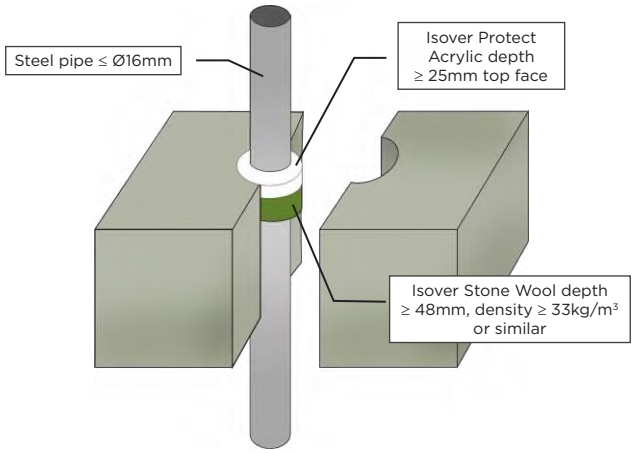


## STEEL PIPE FIRE RESISTANCE EI 120 C/U (E 120)

Maximum aperture 300x300mm

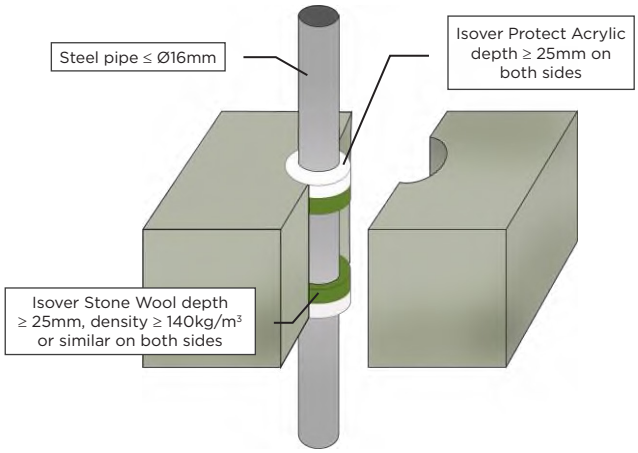
**RIGID FLOORS**




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

Maximum aperture 300x300mm

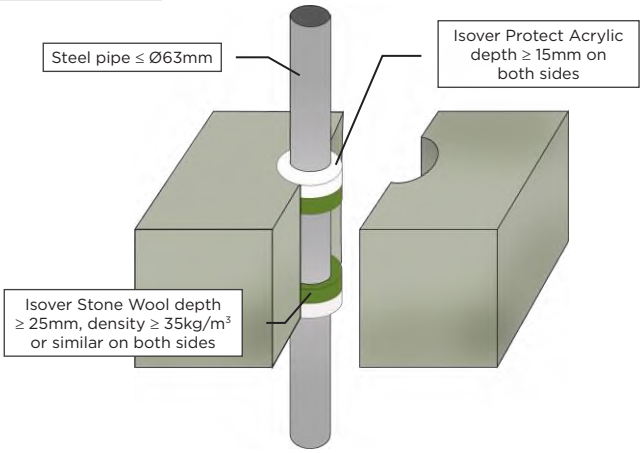
**RIGID FLOORS**




## STEEL PIPE FIRE RESISTANCE EI 30 C/U (E 240)

Maximum aperture 300x300mm

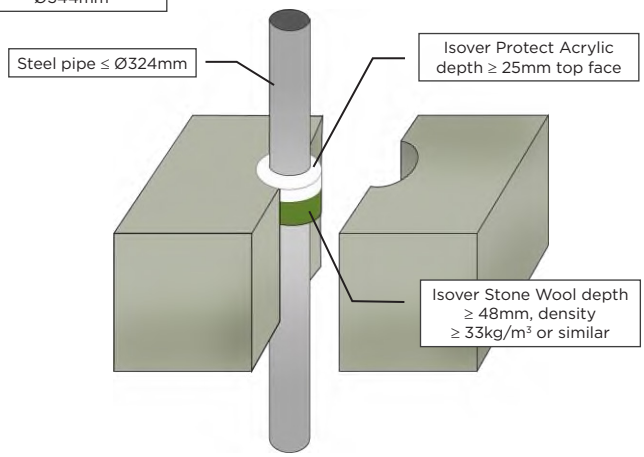
**RIGID FLOORS**




## STEEL PIPE FIRE RESISTANCE E 120 C/U

Maximum aperture 300x300mm or Ø344mm

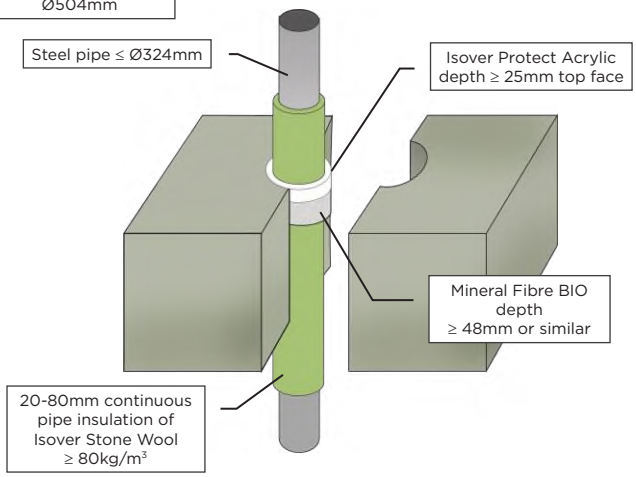
**RIGID FLOORS**




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

Maximum aperture 300x300mm or Ø504mm

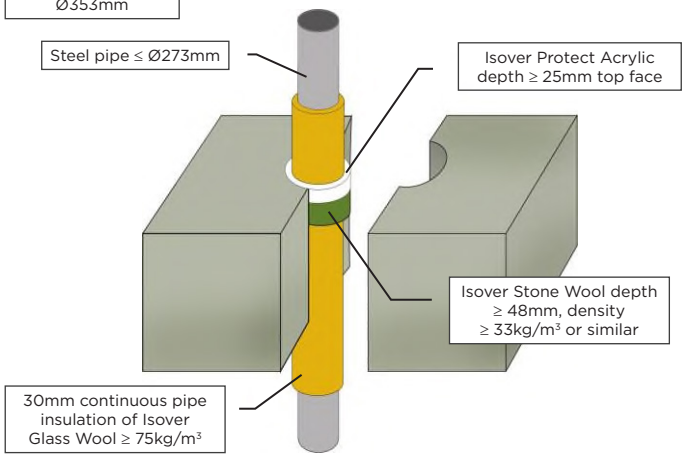
**RIGID FLOORS**




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

Maximum aperture 300x300mm or Ø353mm

**RIGID FLOORS**



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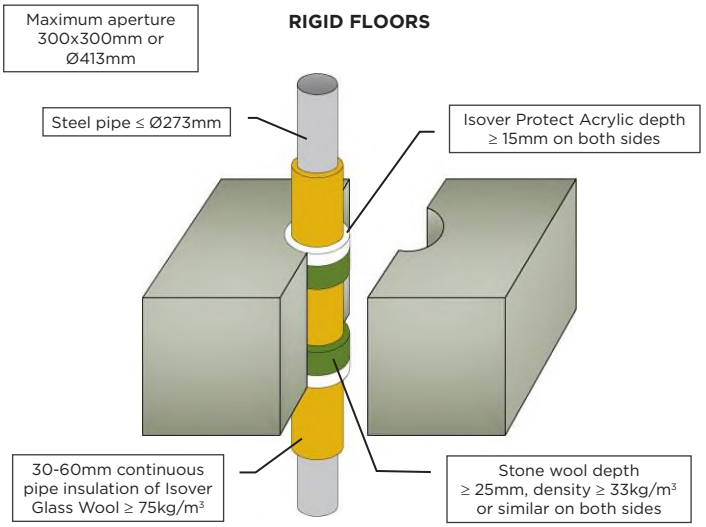


## STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 90)

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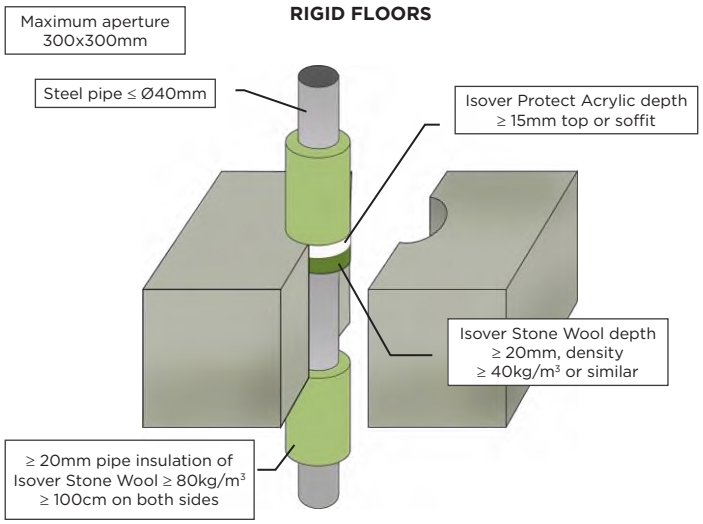


## STEEL PIPE FIRE RESISTANCE EI 90 C/U (E 120)

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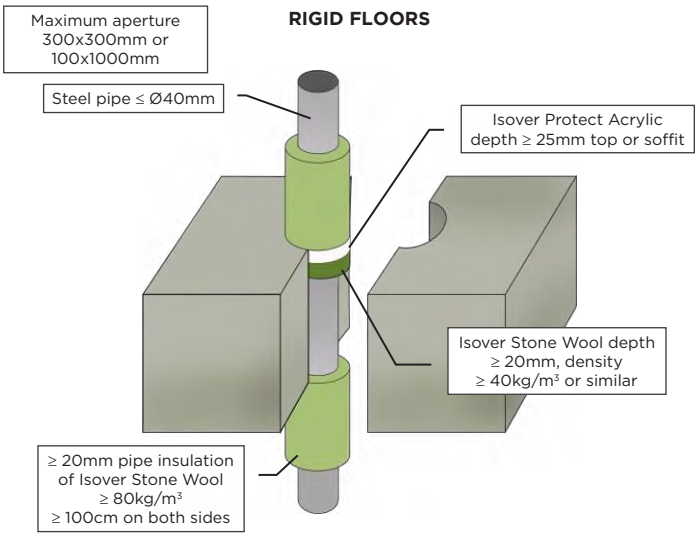


## STEEL PIPE FIRE RESISTANCE EI 240 C/U (E 240)

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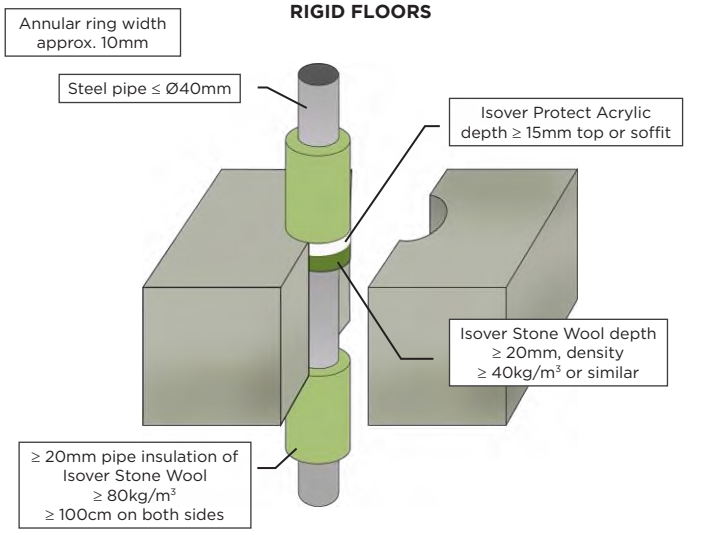


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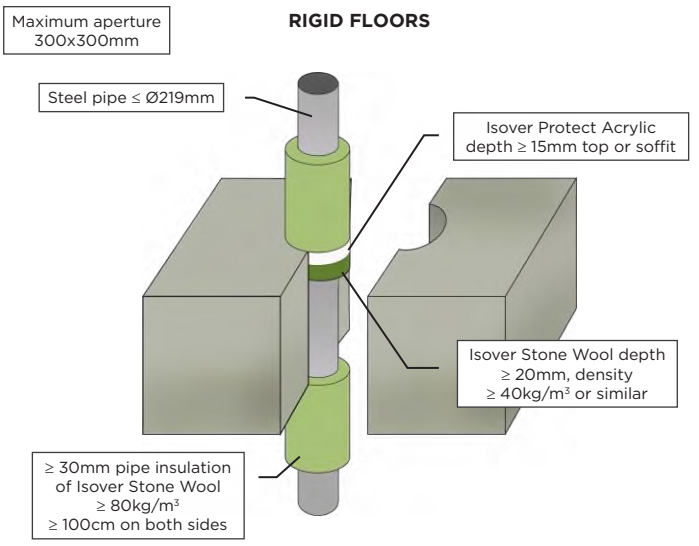
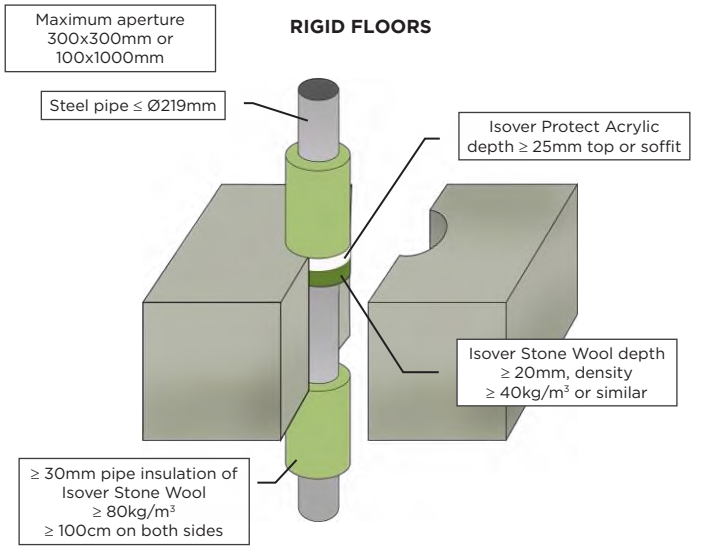


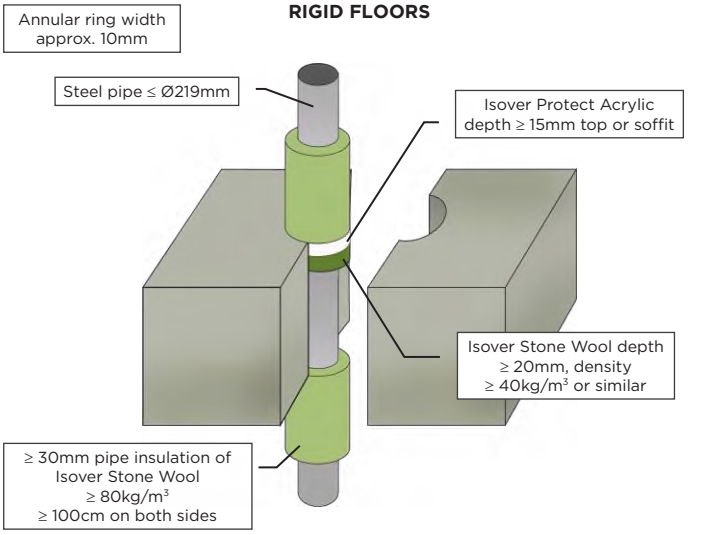

## STEEL PIPE FIRE RESISTANCE EI 90 C/U (E 120)

**RIGID FLOORS**



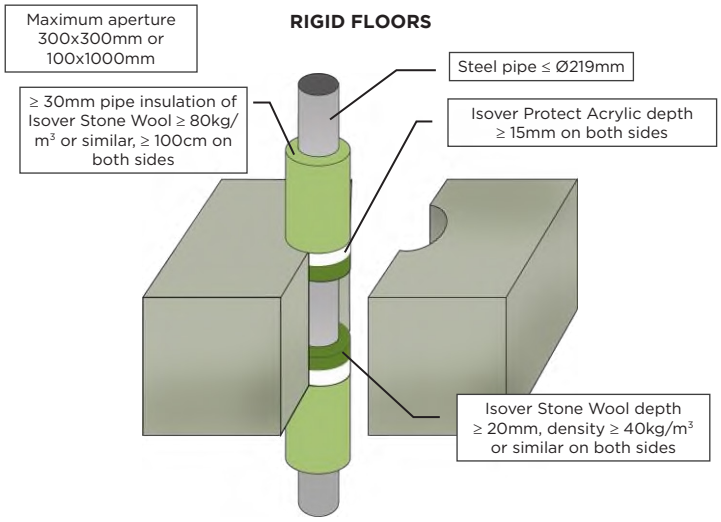
## STEEL PIPE FIRE RESISTANCE EI 90 C/U (E 240)

**RIGID FLOORS**



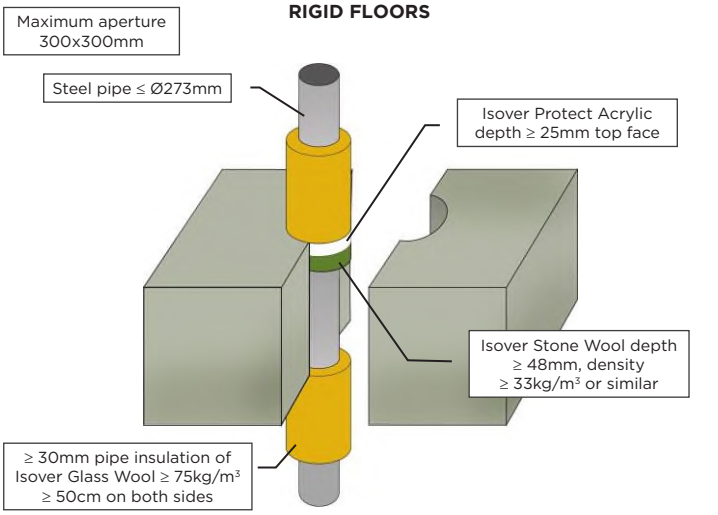

## STEEL PIPE FIRE RESISTANCE EI 120 C/U (E 240)

**RIGID FLOORS**



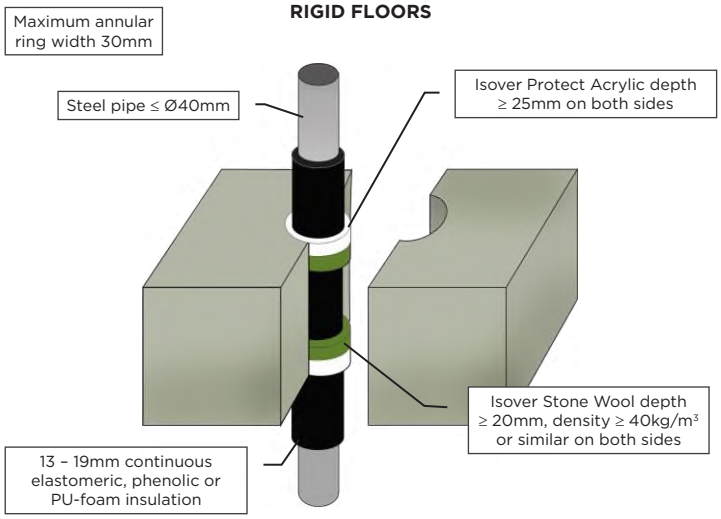

## STEEL PIPE FIRE RESISTANCE EI 60 C/C (E 180)

**RIGID FLOORS**



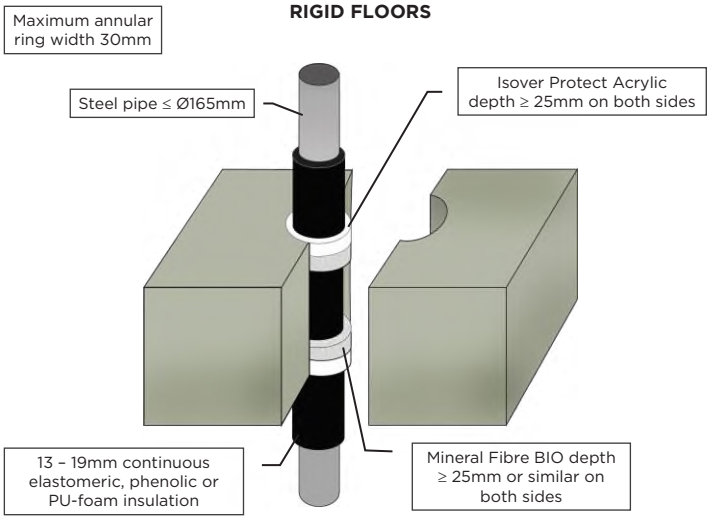

## INSULATED STEEL PIPE FIRE RESISTANCE EI 180 C/U (E 180)

**RIGID FLOORS**



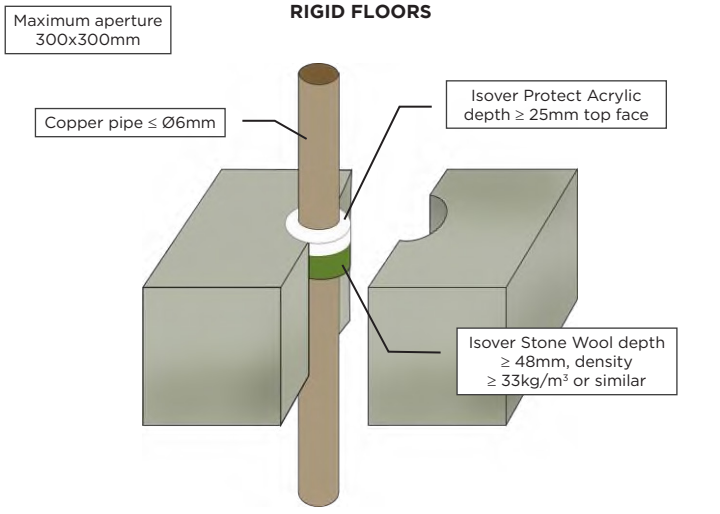

## INSULATED STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 60)

**RIGID FLOORS**




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

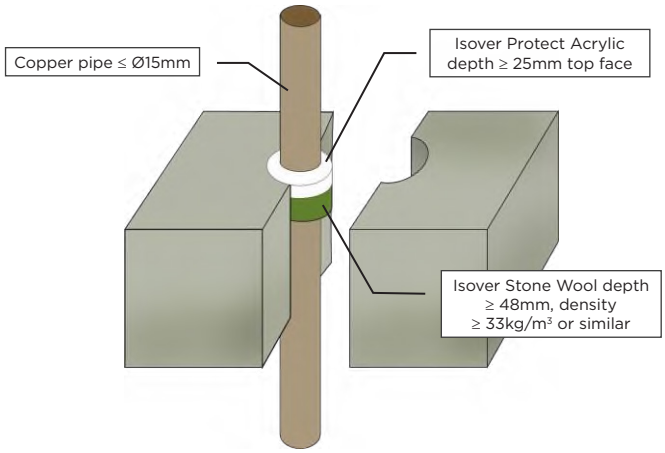
**RIGID FLOORS**



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

Maximum aperture 300x300mm

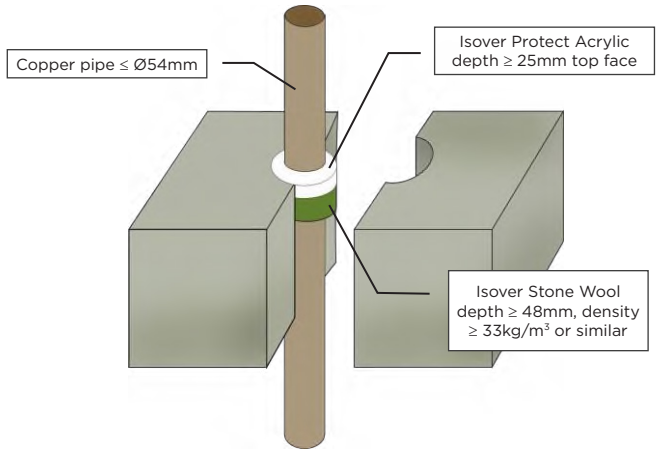
**RIGID FLOORS**




## COPPER PIPE FIRE RESISTANCE E 120 C/C

Maximum aperture 300x300mm

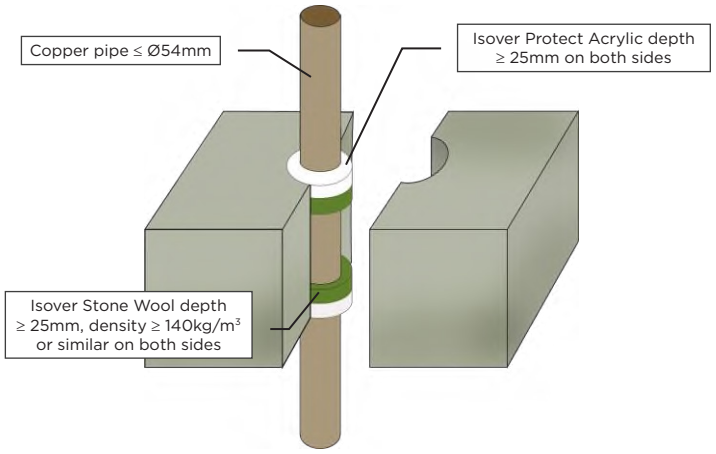
**RIGID FLOORS**




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

Maximum aperture 300x300mm

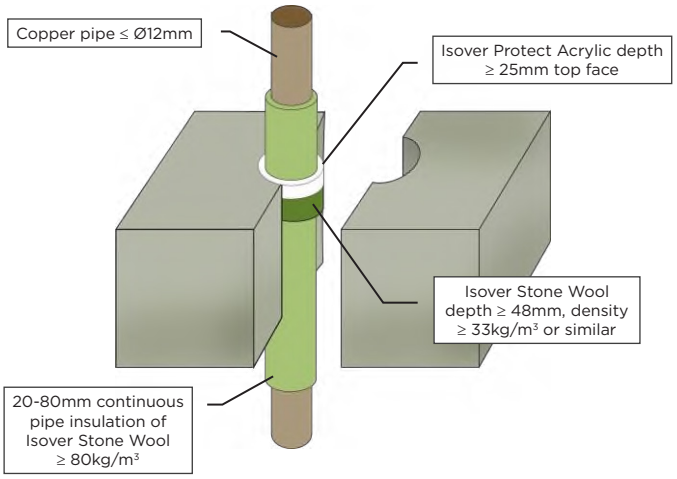
**RIGID FLOORS**




## INSULATED COPPER PIPE FIRE RESISTANCE EI 240 C/C (E 240)

Maximum aperture 300x300mm

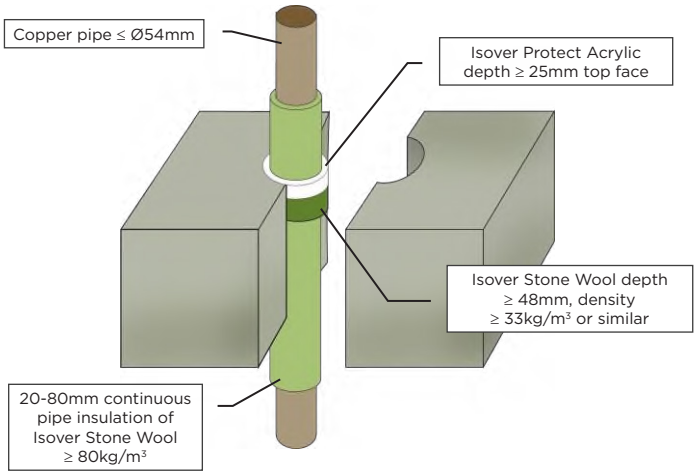
**RIGID FLOORS**




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

Maximum aperture 300x300mm

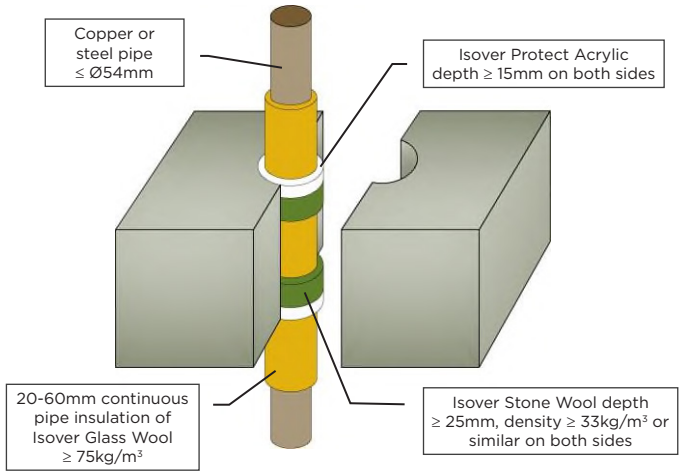
**RIGID FLOORS**




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

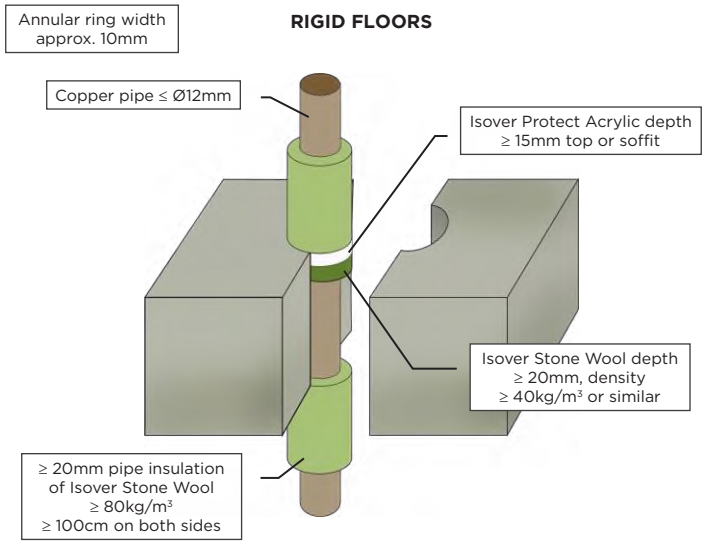
Maximum aperture 300x300mm

**RIGID FLOORS**



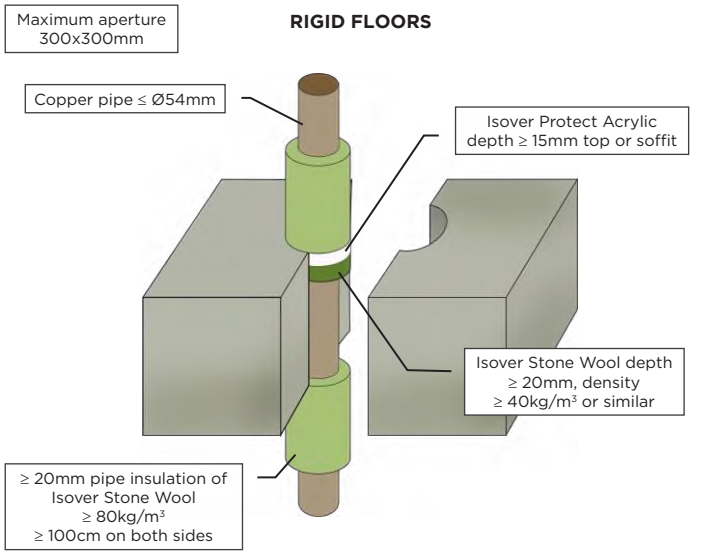
## COPPER PIPE FIRE RESISTANCE EI 240 C/U (E 240)

**RIGID FLOORS**



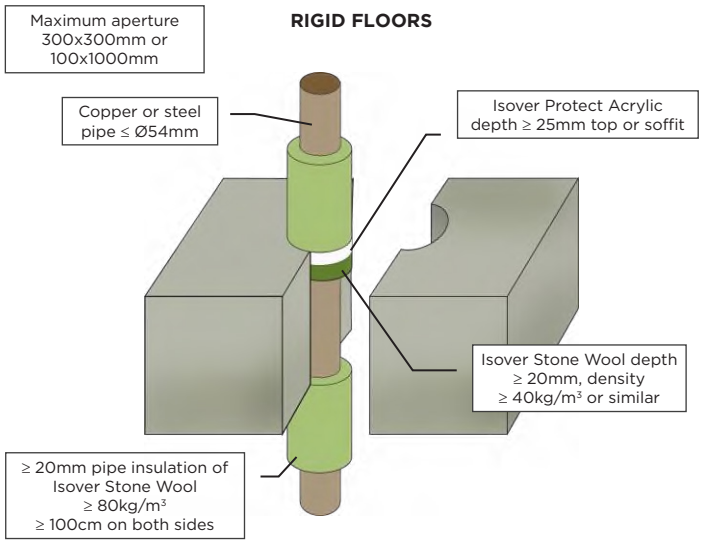

## COPPER PIPE FIRE RESISTANCE EI 60 C/U (E 90)

**RIGID FLOORS**



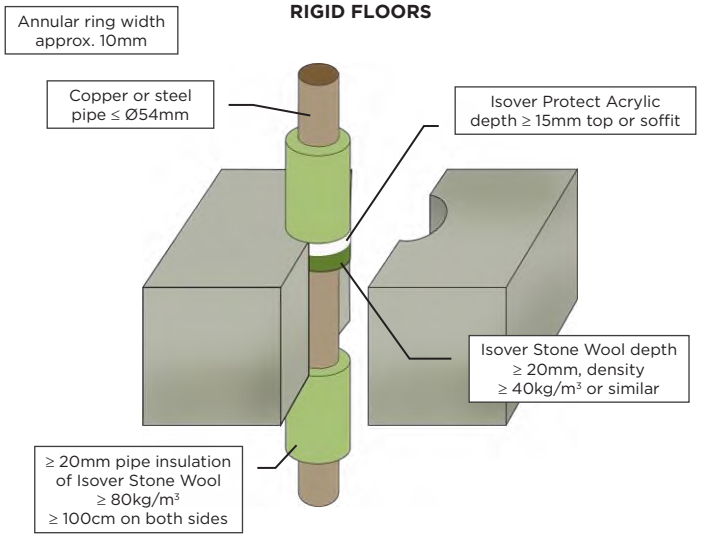

## COPPER OR STEEL PIPE FIRE RESISTANCE EI 120 C/U (E 120)

**RIGID FLOORS**



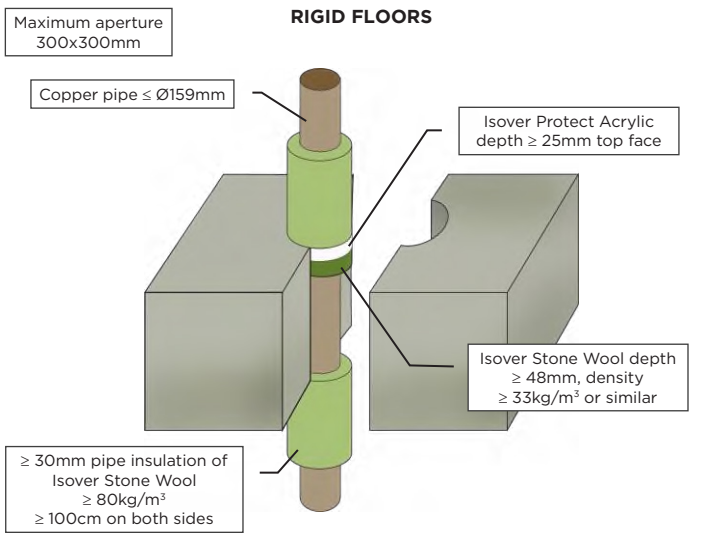

## COPPER OR STEEL PIPE FIRE RESISTANCE EI 180 C/U (E 240)

**RIGID FLOORS**



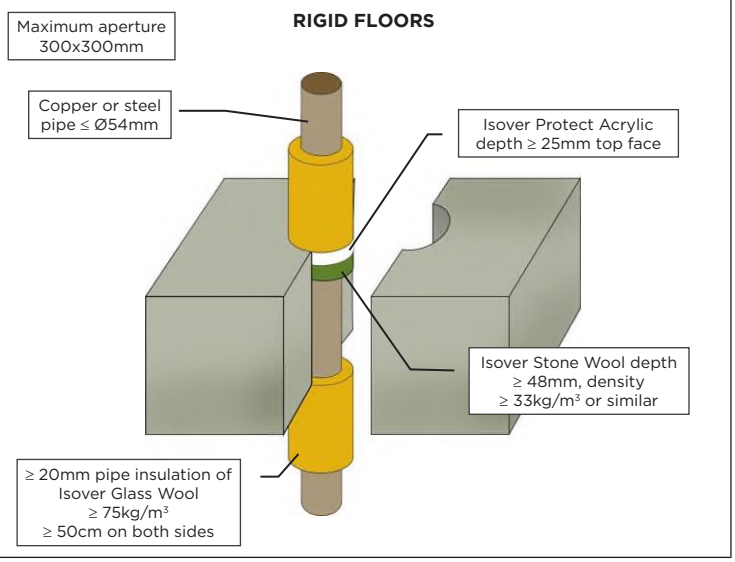

## COPPER PIPE FIRE RESISTANCE EI 20 C/C (E 90)

**RIGID FLOORS**



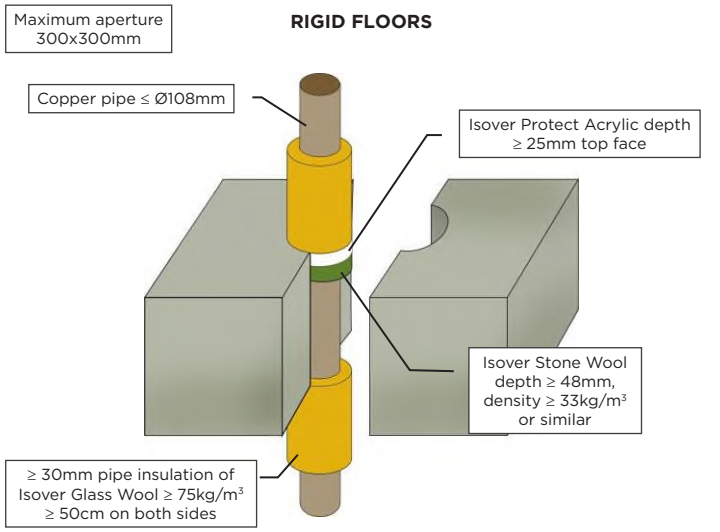

## COPPER OR STEEL PIPE FIRE RESISTANCE EI 180 C/C (E 180)

**RIGID FLOORS**



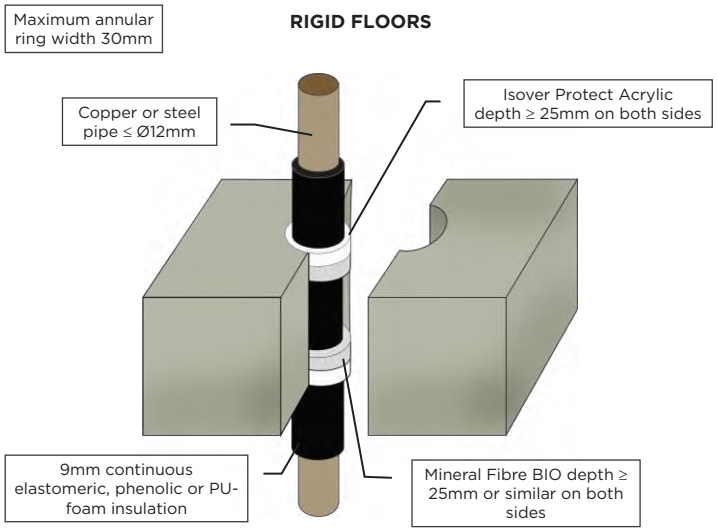
## COPPER PIPE FIRE RESISTANCE EI 30 C/U (E 180)

**RIGID FLOORS**



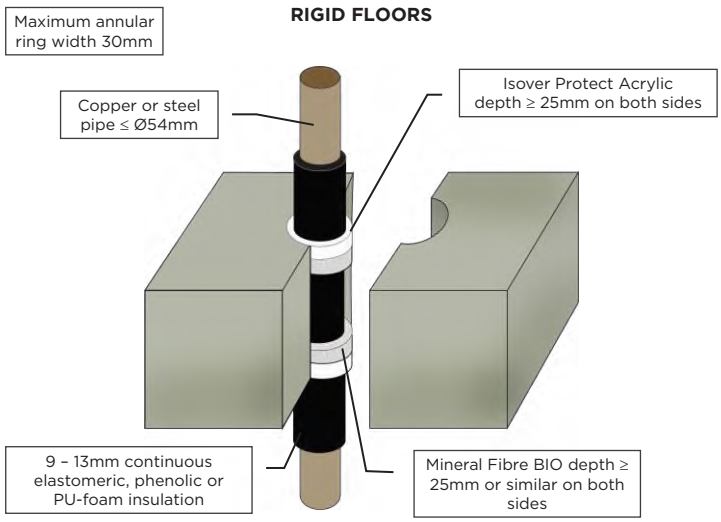

## COPPER OR STEEL PIPE FIRE RESISTANCE EI 180 C/C (E 240)

**RIGID FLOORS**



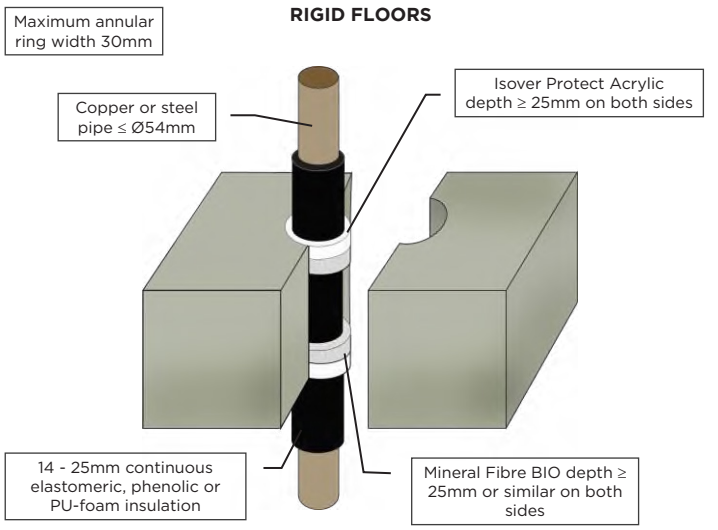

## COPPER OR STEEL PIPE FIRE RESISTANCE EI 120 C/C (E 180)

**RIGID FLOORS**



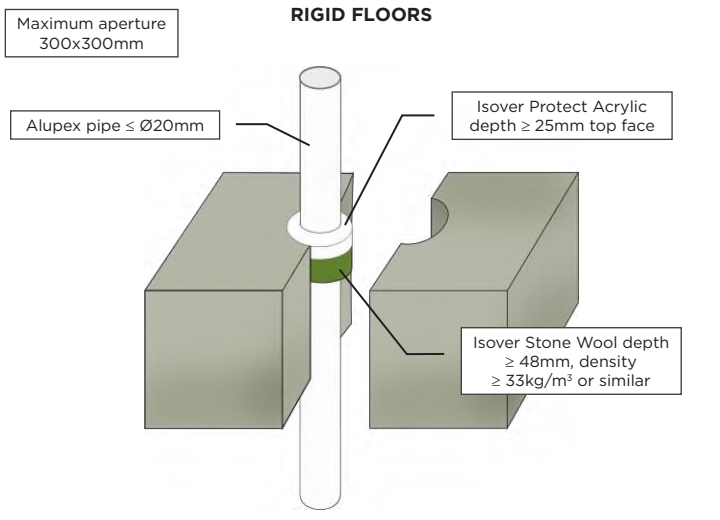

## COPPER OR STEEL PIPE FIRE RESISTANCE EI 60 C/C (E 90)

**RIGID FLOORS**



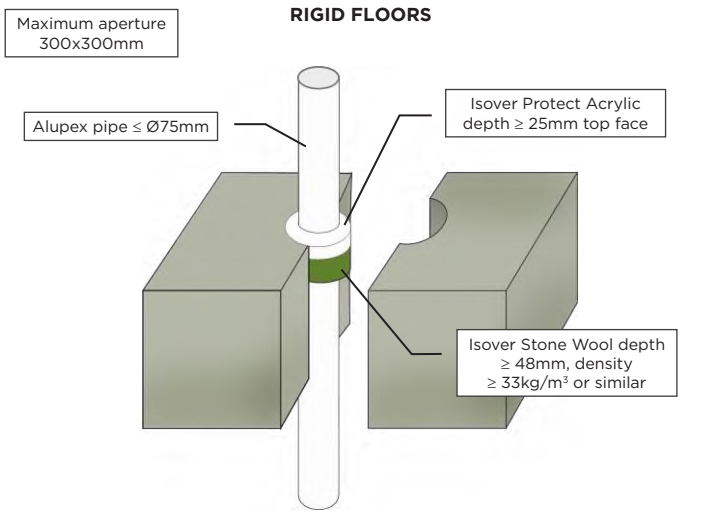

## ALUPEX PIPE FIRE RESISTANCE EI 120 C/C (E 120)

**RIGID FLOORS**



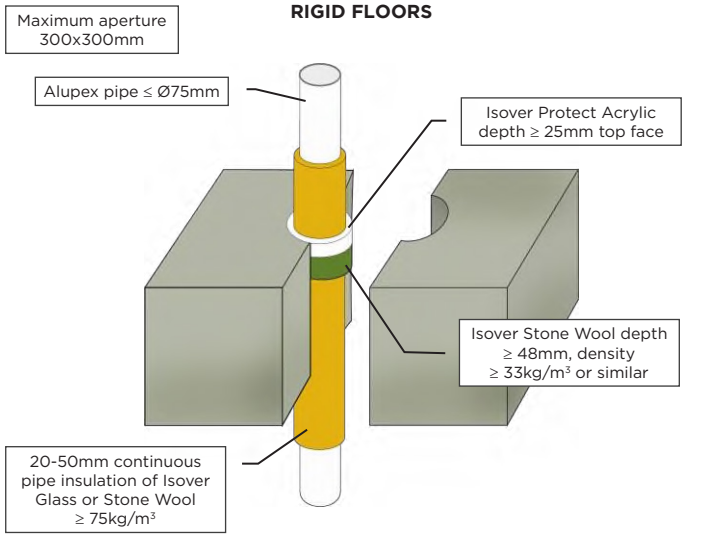

## ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 120)

**RIGID FLOORS**



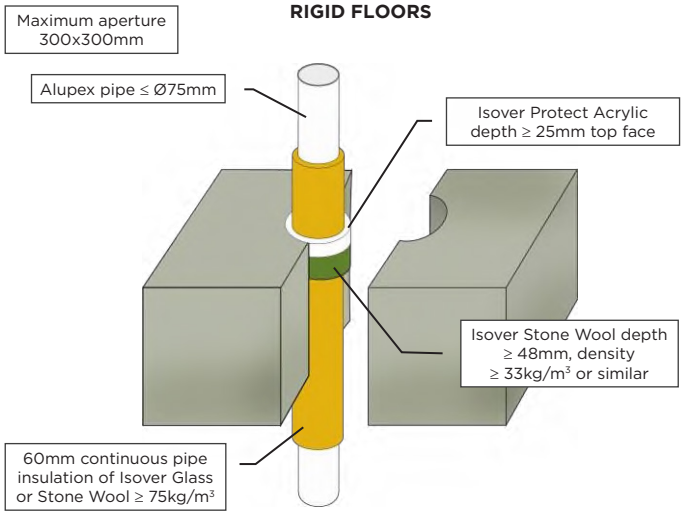
## INSULATED ALUPEX PIPE FIRE RESISTANCE EI 120 C/C (E 180)

**RIGID FLOORS**



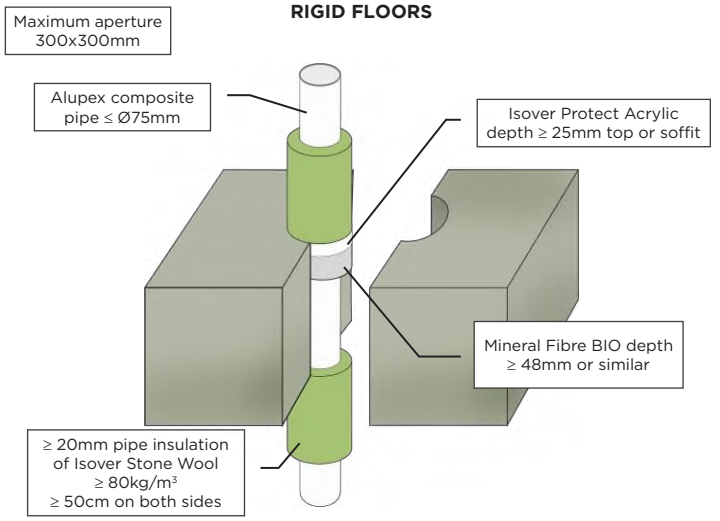

## INSULATED ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 120)

**RIGID FLOORS**



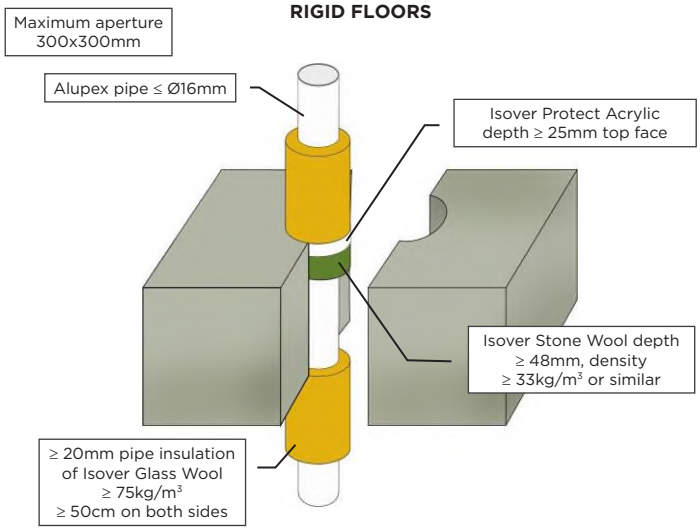

## ALUPEX PIPE FIRE RESISTANCE EI 240 C/C (E 240)

**RIGID FLOORS**



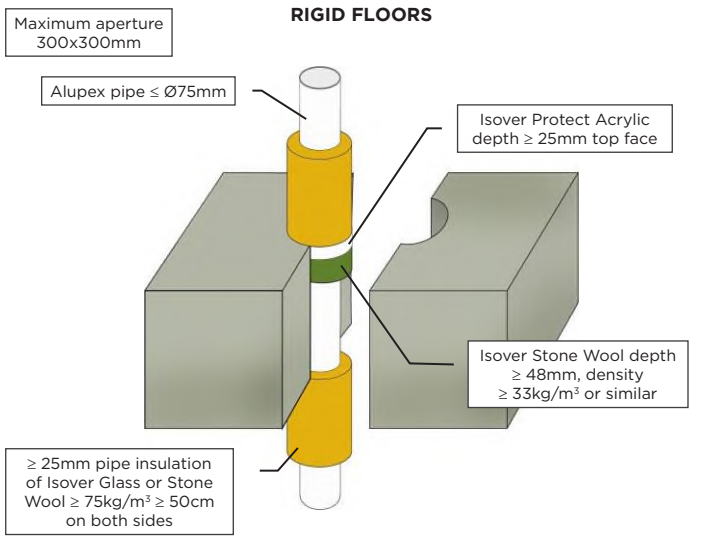

## ALUPEX PIPE FIRE RESISTANCE EI 180 C/C (E 180)

**RIGID FLOORS**



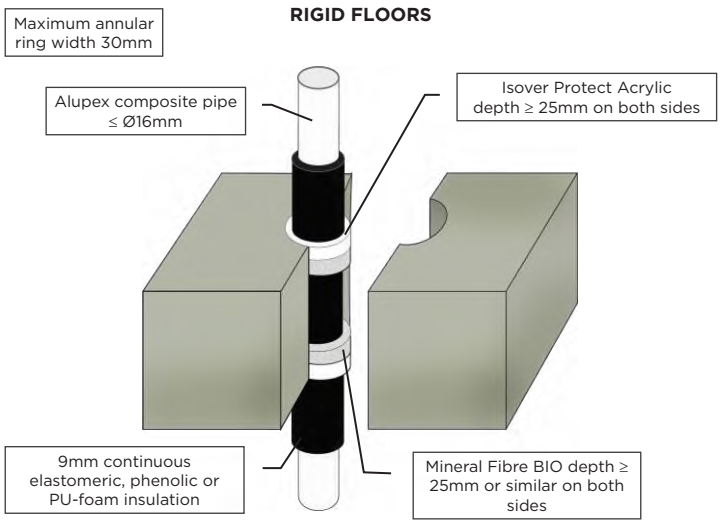

## ALUPEX PIPE FIRE RESISTANCE EI 120 C/C (E 180)

**RIGID FLOORS**



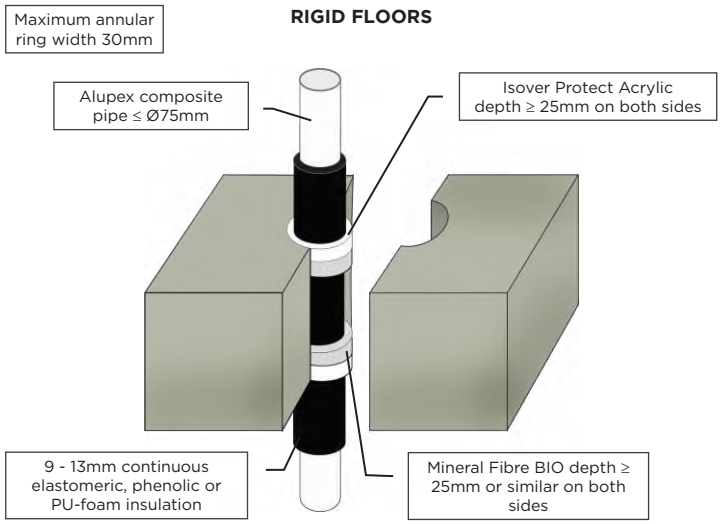

## INSULATED ALUPEX PIPE FIRE RESISTANCE EI 180 C/C (E 180)

**RIGID FLOORS**



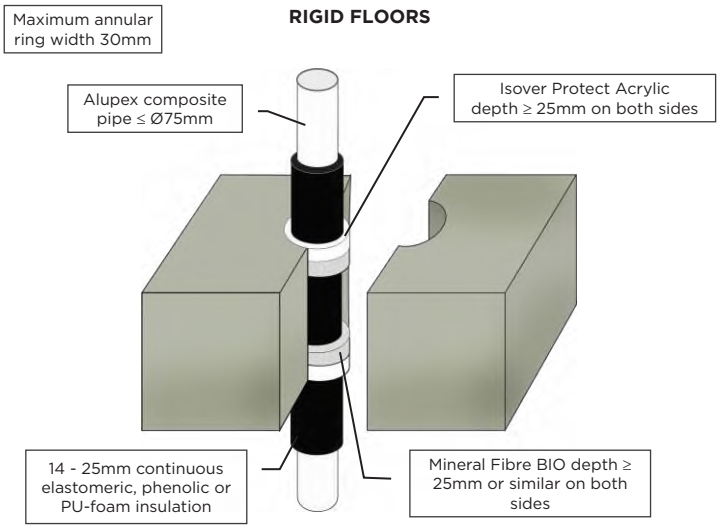
## INSULATED ALUPEX PIPE FIRE RESISTANCE EI 60 C/C (E 120)

**RIGID FLOORS**



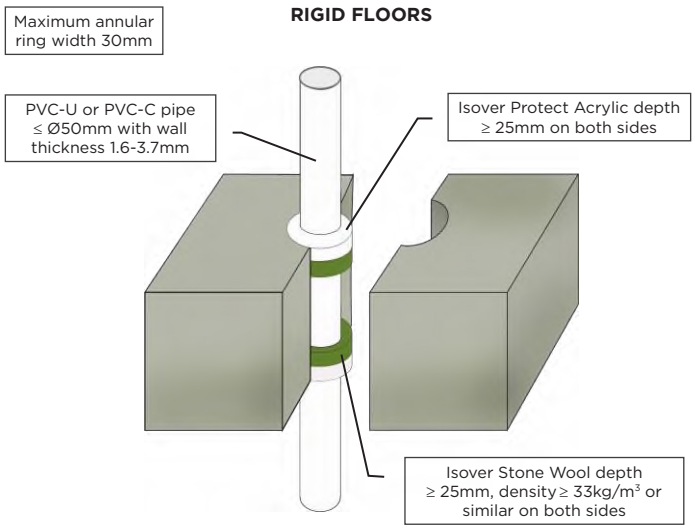

## INSULATED ALUPEX PIPE FIRE RESISTANCE EI 60 C/C (E 60)

**RIGID FLOORS**



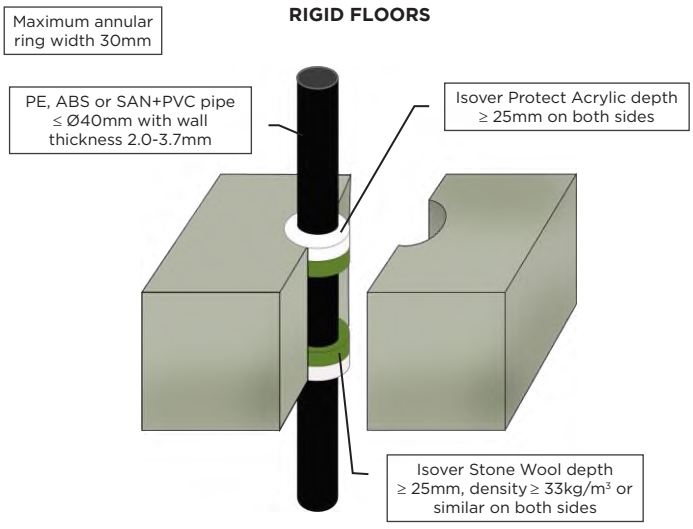

## PVC PLASTIC PIPE FIRE RESISTANCE EI 240 U/C (E 240)

**RIGID FLOORS**



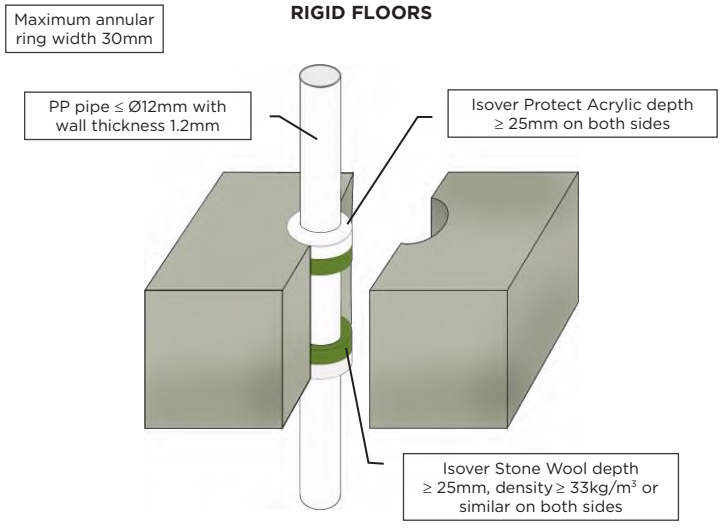

## PE PLASTIC PIPE FIRE RESISTANCE EI 240 U/C (E 240)

**RIGID FLOORS**



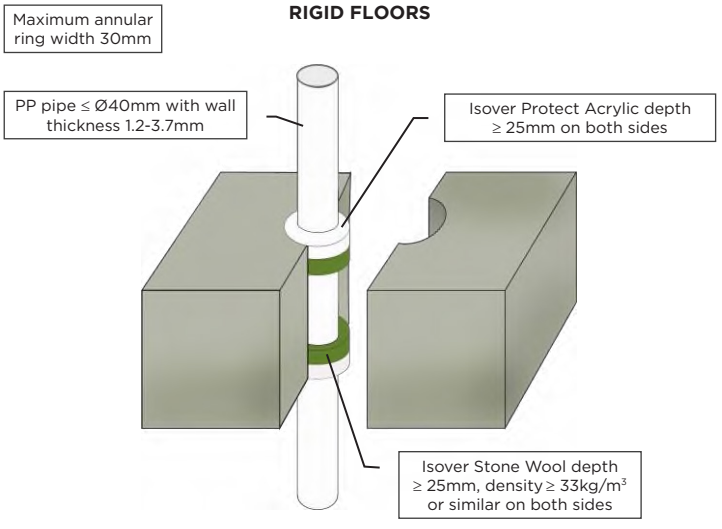

## PP PLASTIC PIPE FIRE RESISTANCE EI 240 U/C (E 240)

**RIGID FLOORS**



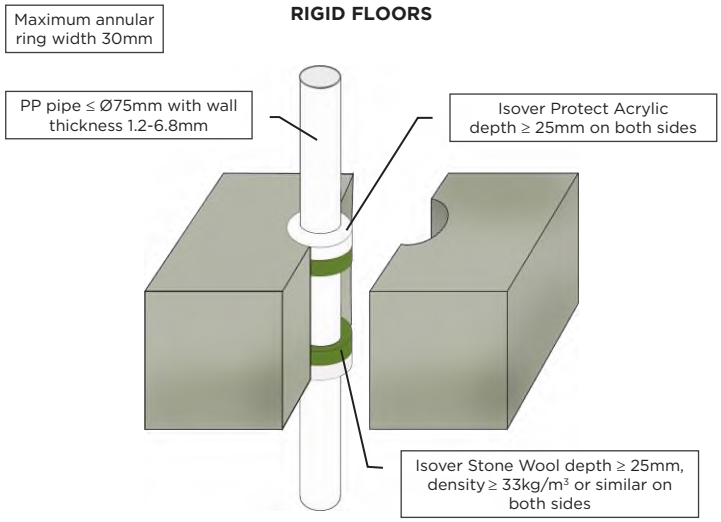

## PP PLASTIC PIPE FIRE RESISTANCE EI 180 U/C (E 180)

**RIGID FLOORS**



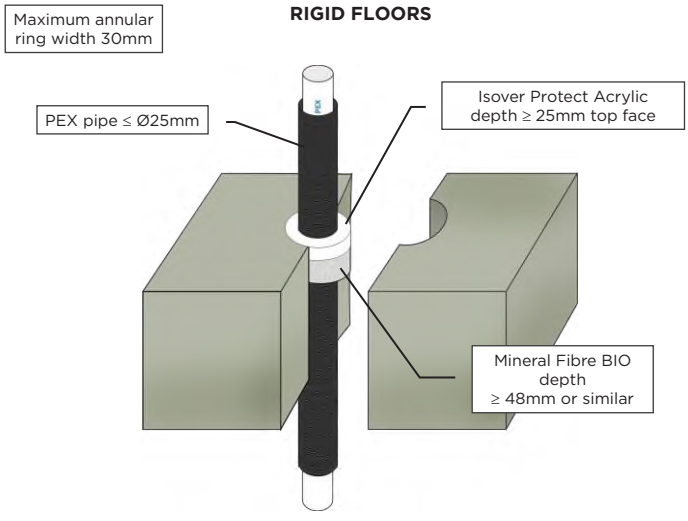
## PP PLASTIC PIPE FIRE RESISTANCE EI 90 U/C (E 90)

**RIGID FLOORS**



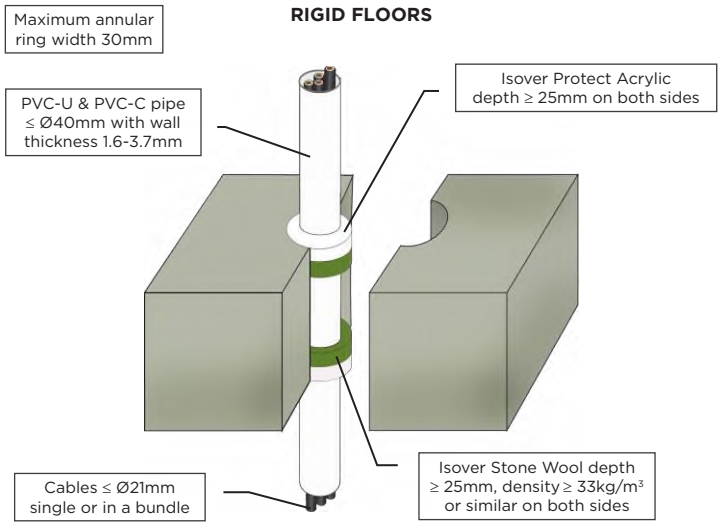

## PEX PIPE-IN-PIPE SYSTEM FIRE RESISTANCE EI 90 C/C (E 90)

**RIGID FLOORS**



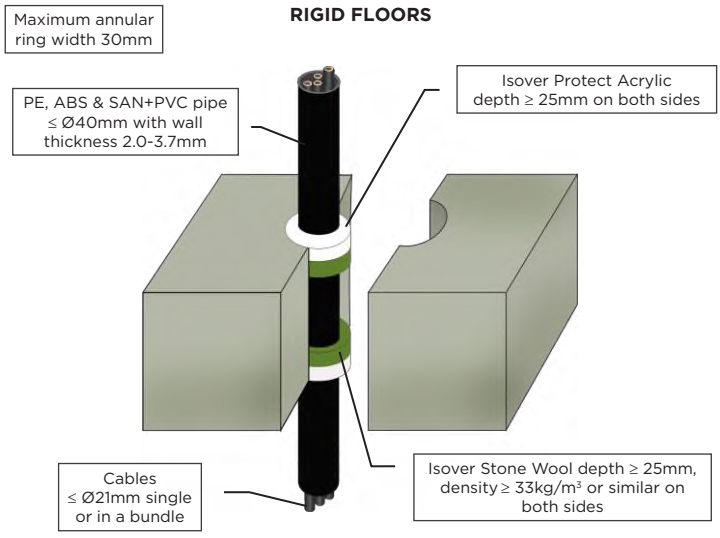

## PVC CONDUIT FIRE RESISTANCE EI 240 U/C (E 240)

**RIGID FLOORS**



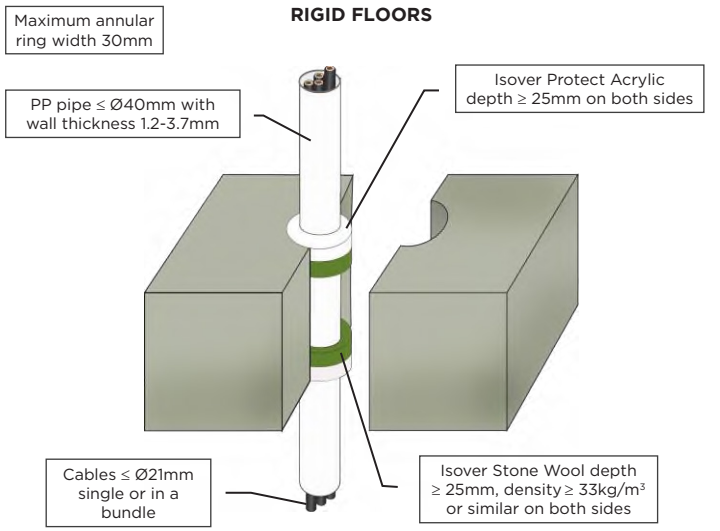

## PE CONDUIT FIRE RESISTANCE EI 180 U/C (E 180)

**RIGID FLOORS**



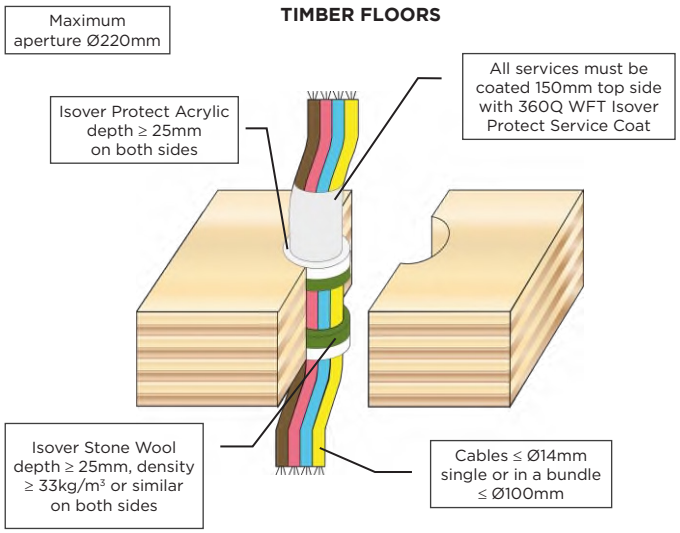

## PP CONDUIT FIRE RESISTANCE EI 180 U/C (E 180)

**RIGID FLOORS**




## CABLES FIRE RESISTANCE EI 120 (E 120)

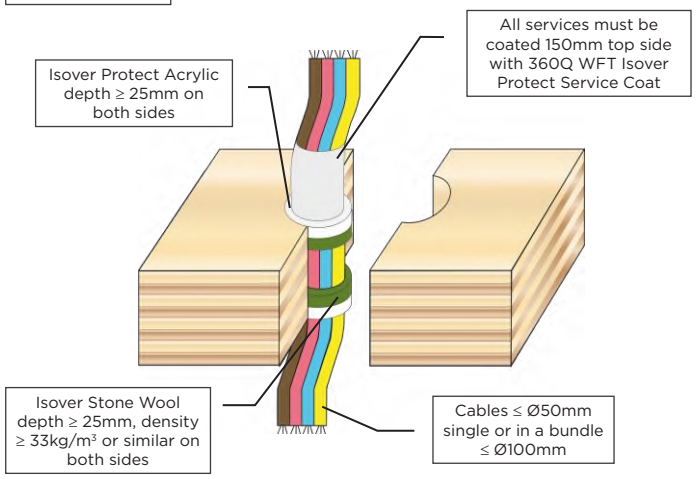
**TIMBER FLOORS**



## CABLES FIRE RESISTANCE EI 90 (E 120)

Maximum aperture Ø220mm

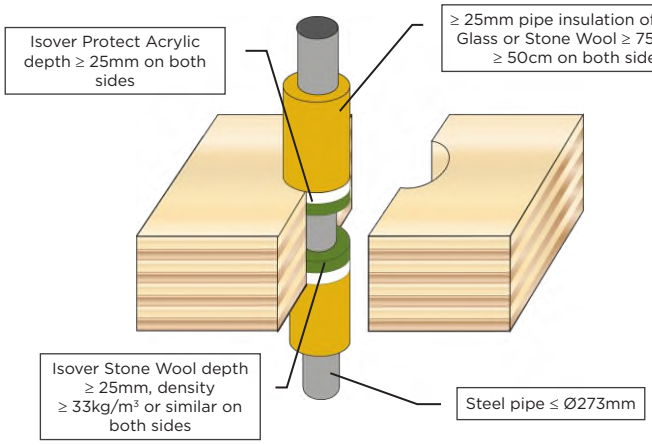
**TIMBER FLOORS**




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

Maximum aperture Ø293mm

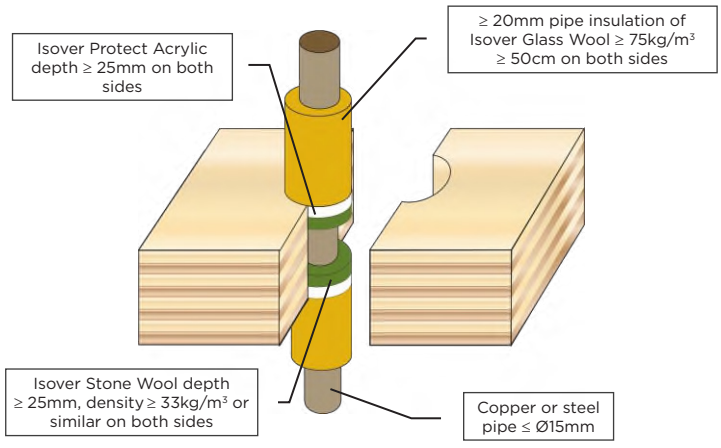
**TIMBER FLOORS**




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

Maximum aperture Ø220mm

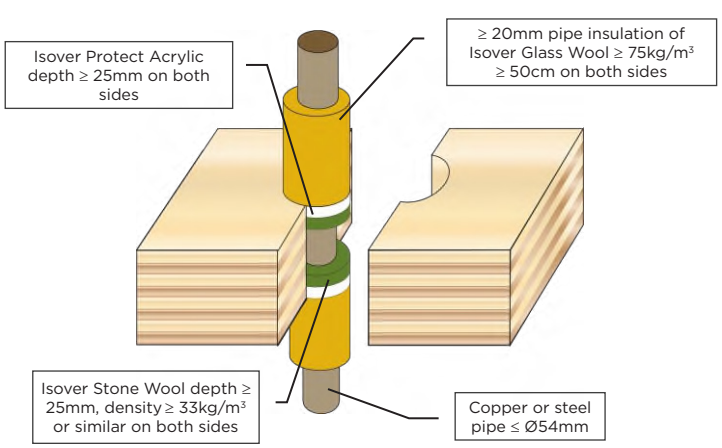
**TIMBER FLOORS**




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

Maximum aperture Ø220mm

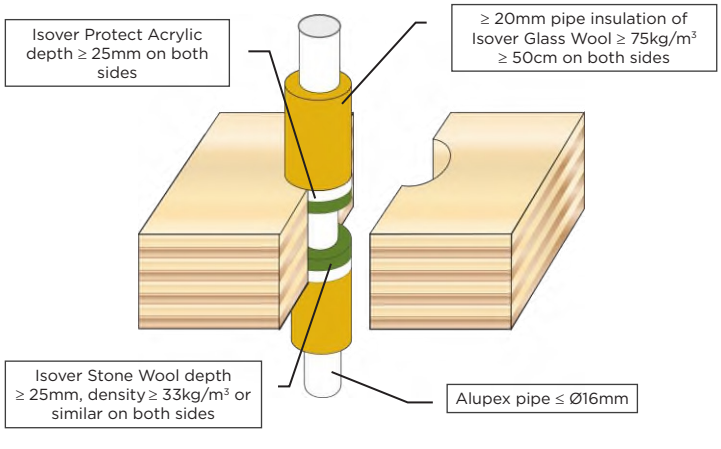
**TIMBER FLOORS**




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

Maximum aperture Ø220mm

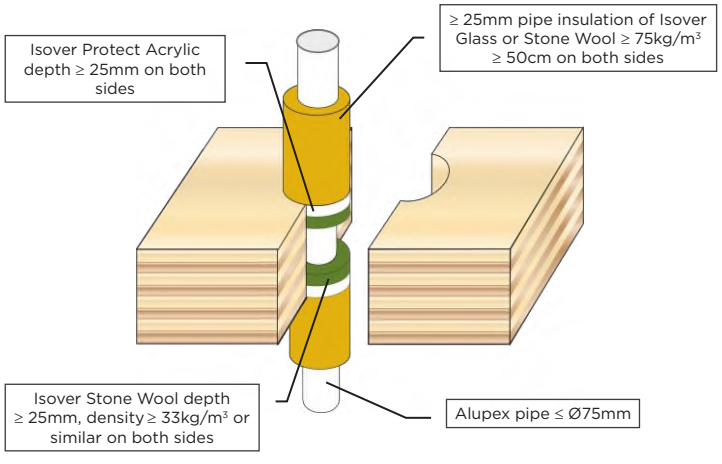
**TIMBER FLOORS**




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

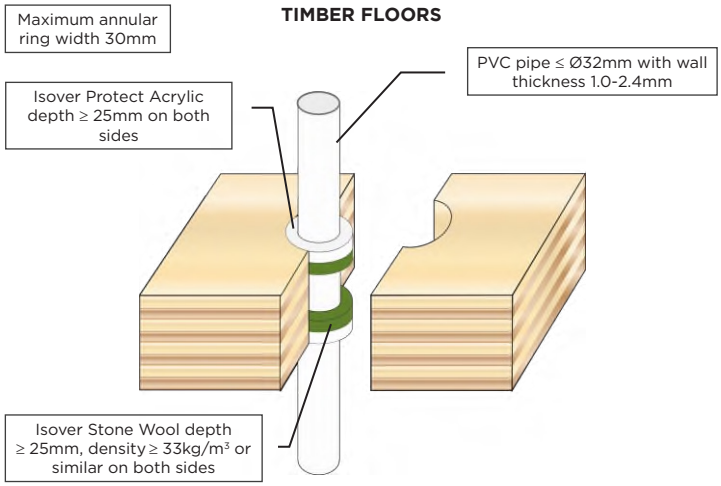
Maximum aperture Ø220mm

**TIMBER FLOORS**



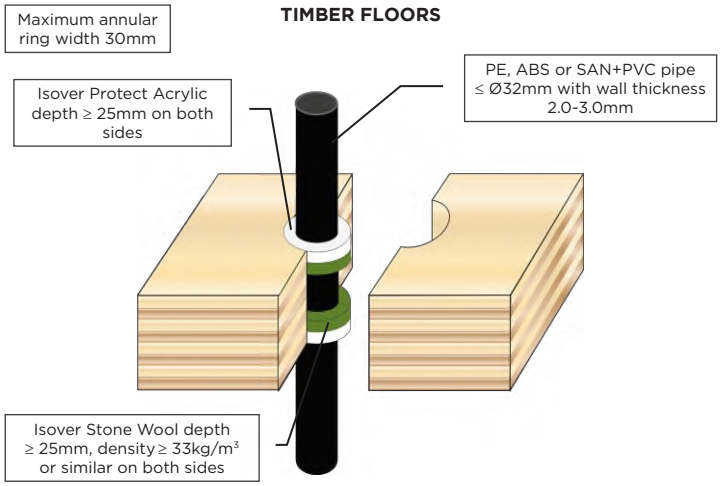
## PVC PIPE FIRE RESISTANCE EI 120 U/C (E 120)

**TIMBER FLOORS**



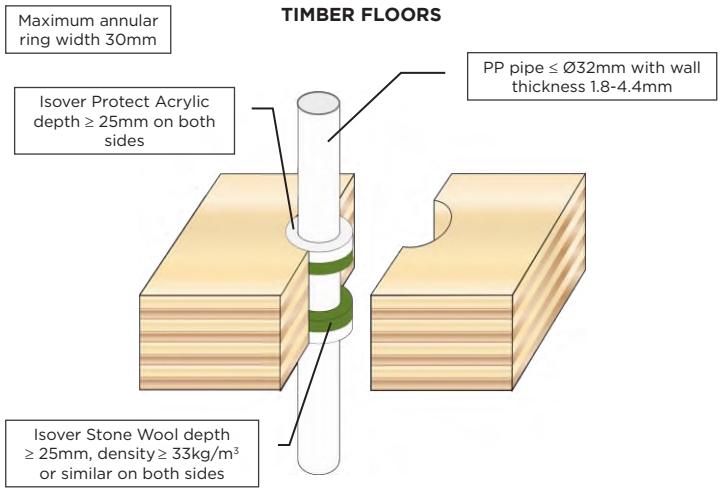

## PE PIPE FIRE RESISTANCE EI 120 U/C (E 120)

**TIMBER FLOORS**



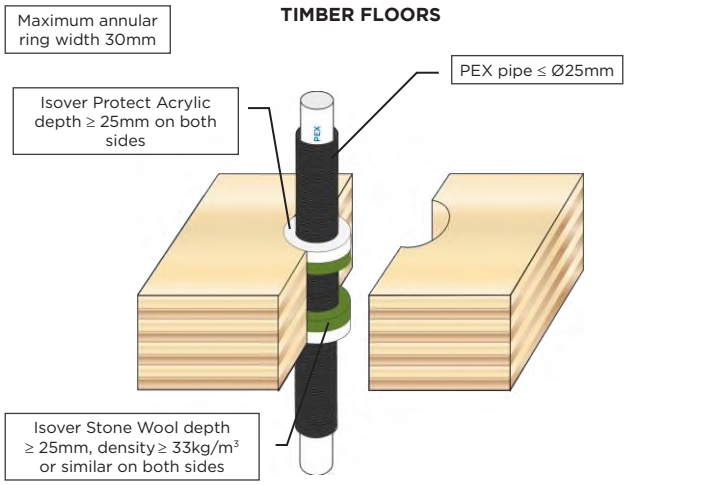

## PP PIPE FIRE RESISTANCE EI 120 U/C (E 120)

**TIMBER FLOORS**



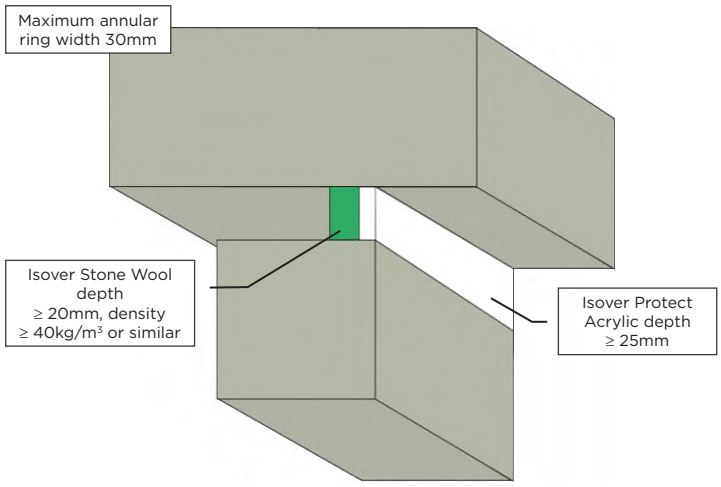

## PEX PIPE-IN-PIPE SYSTEM FIRE RESISTANCE EI 120 C/C (E 120)

**TIMBER FLOORS**



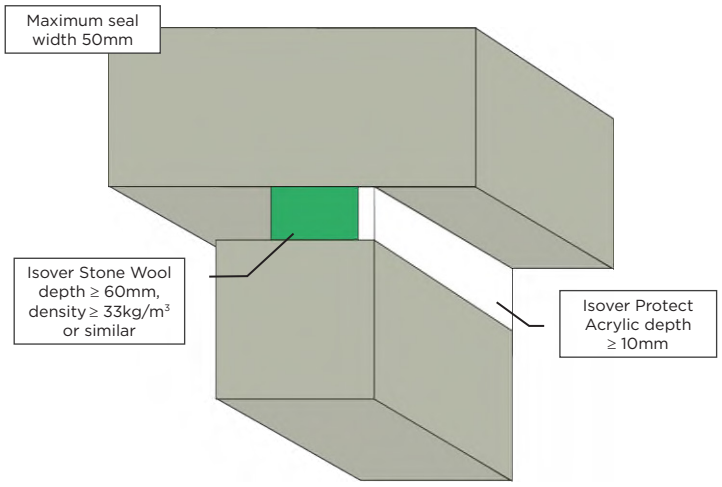

## HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 240)

**IN ≥ 150MM RIGID WALLS OR BETWEEN WALLS AND FLOORS**



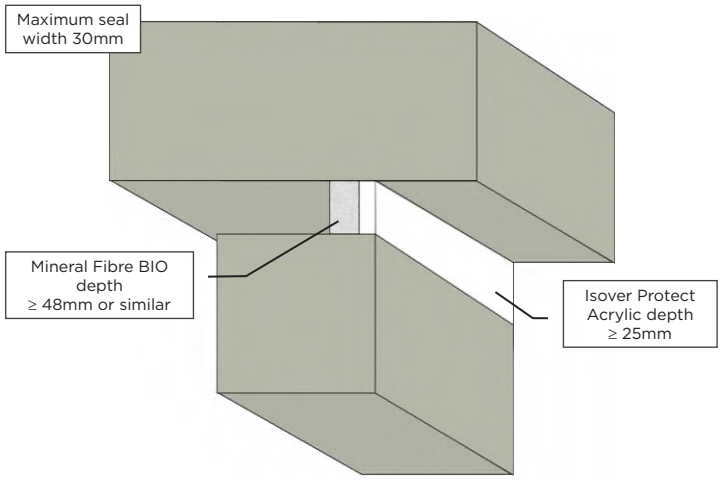

## HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 240)

**IN ≥ 150MM RIGID WALLS OR BETWEEN WALLS AND FLOORS**



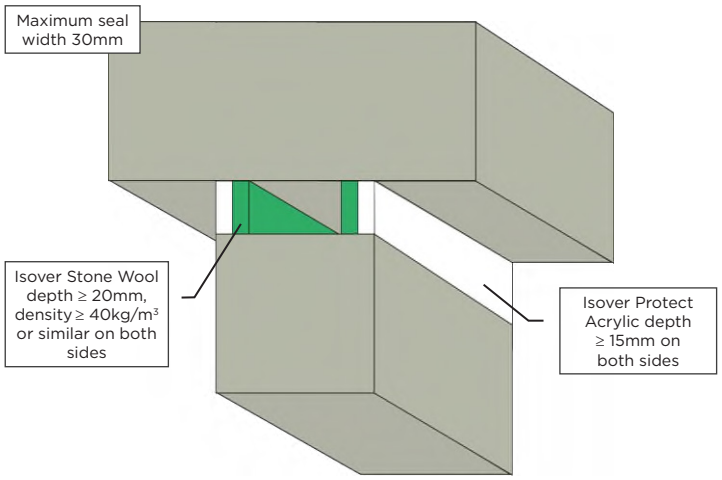
## HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 240)

**IN ≥ 150MM RIGID WALLS OR BETWEEN WALLS AND FLOORS**



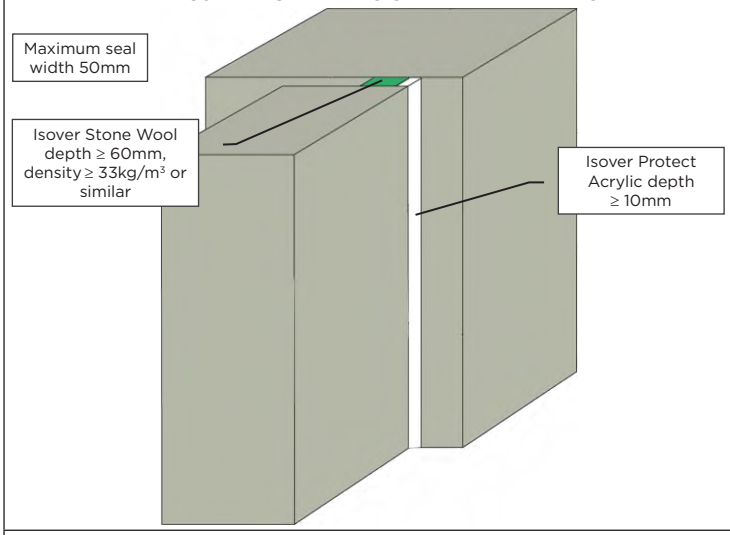

## HORIZONTAL & VERTICAL SEALS FIRE RESISTANCE EI 240

**IN ≥ 150MM RIGID WALLS TOWARDS WALLS AND FLOORS**



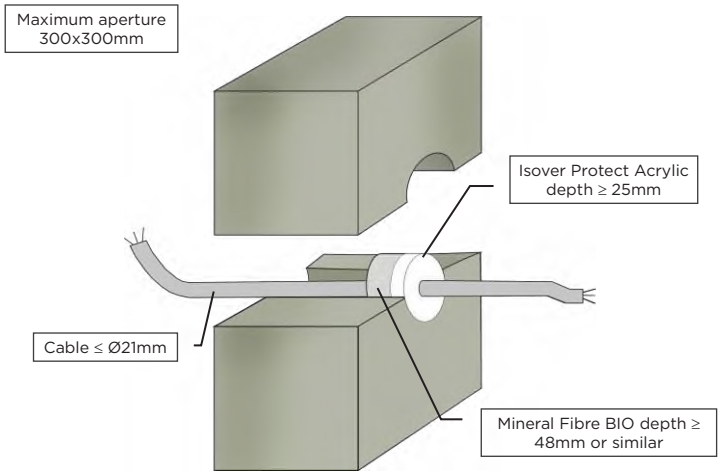

## VERTICAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 120)

**IN ≥ 150MM RIGID WALLS OR BETWEEN WALLS**



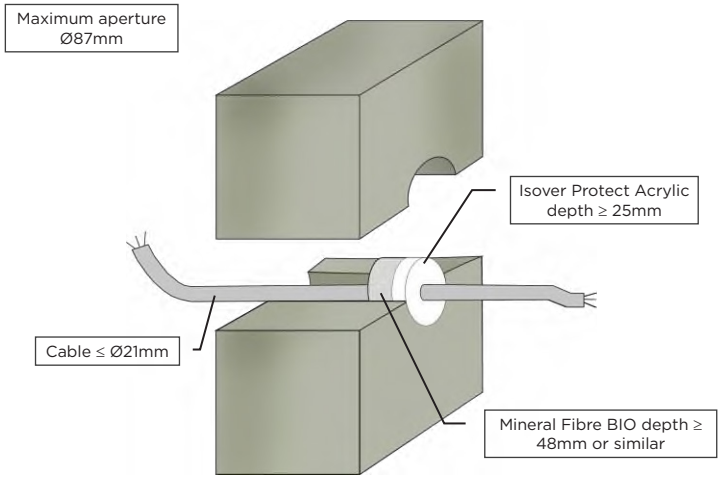

## CABLES FIRE RESISTANCE EI 60 (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



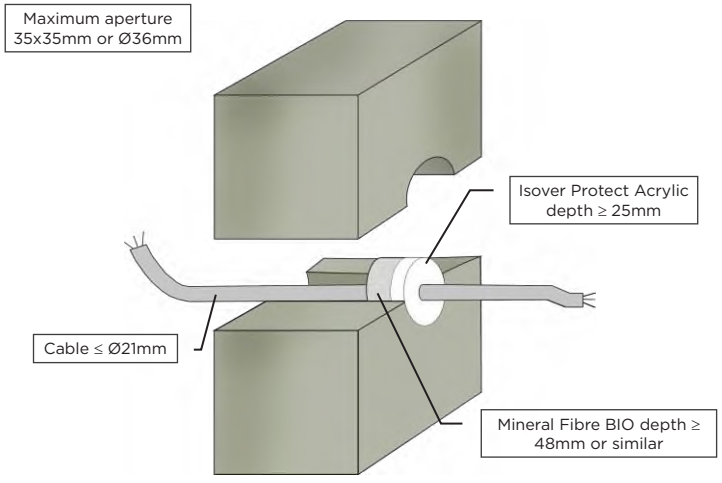

## CABLES FIRE RESISTANCE EI 90 (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



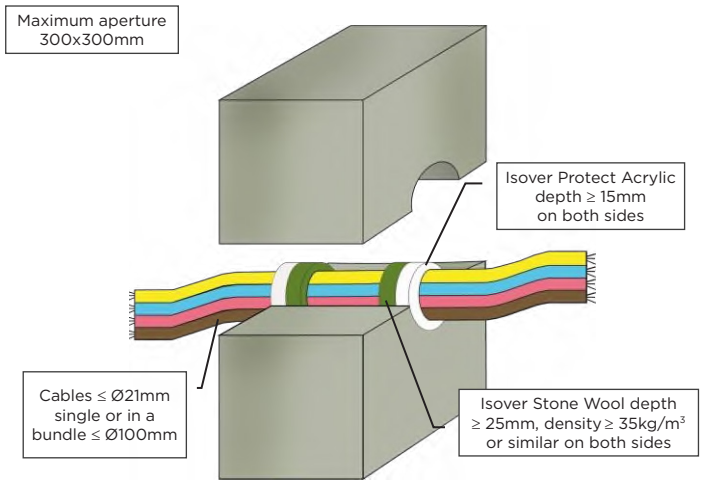

## CABLES FIRE RESISTANCE EI 120 (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



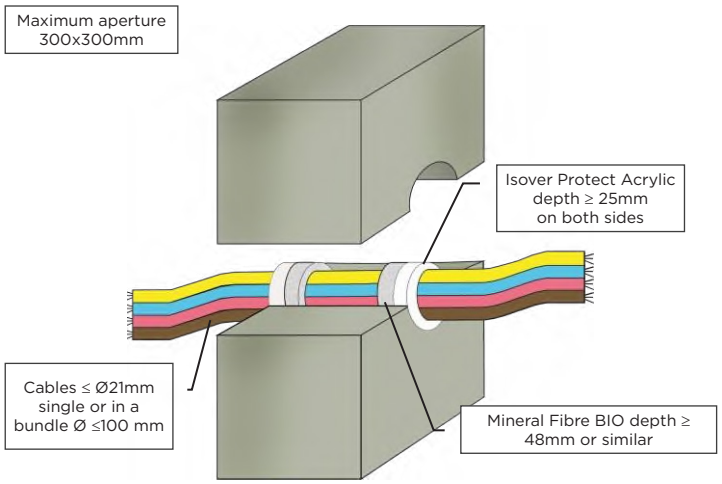
## CABLES FIRE RESISTANCE EI 120 (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



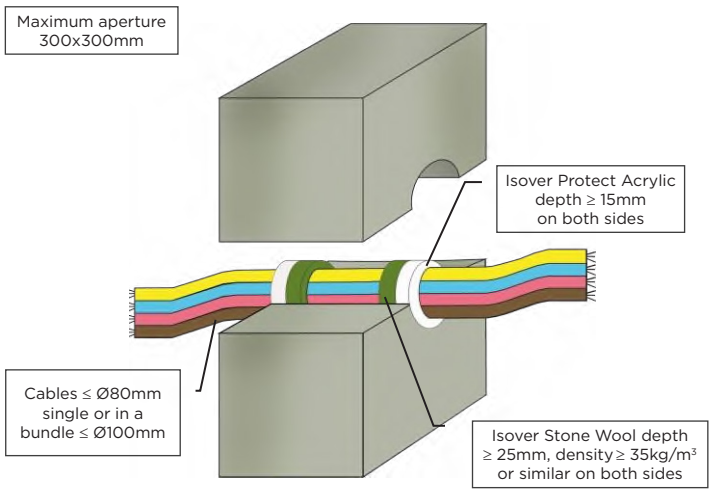

## CABLES FIRE RESISTANCE EI 240 (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



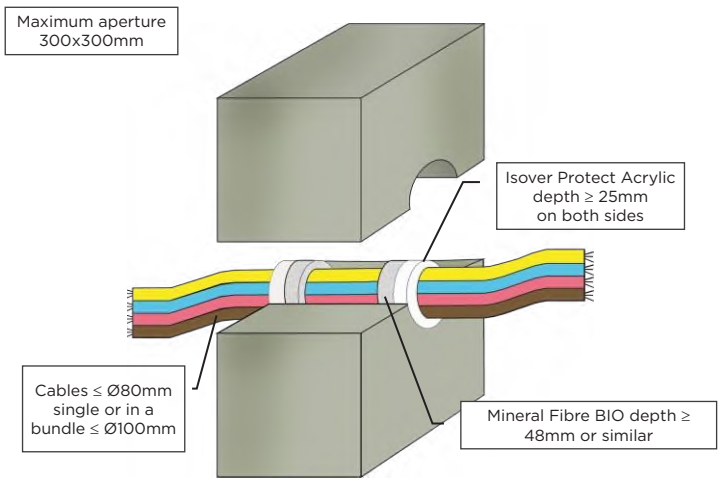

## CABLES FIRE RESISTANCE EI 60 (E 120)

**≥ 150MM MASONRY OR CONCRETE WALLS**



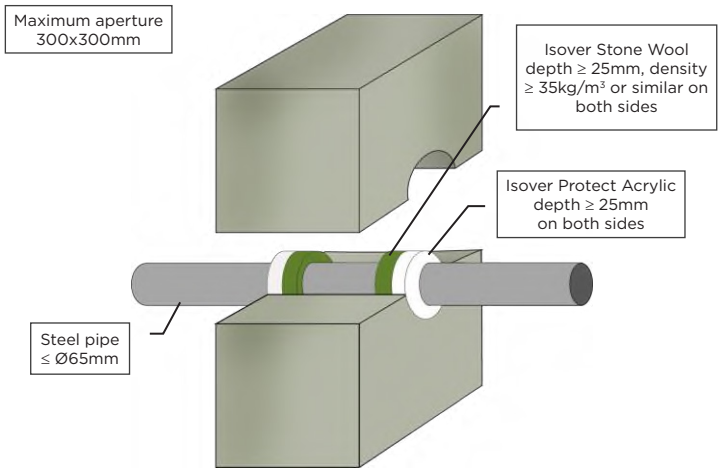

## CABLES FIRE RESISTANCE EI 60 (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



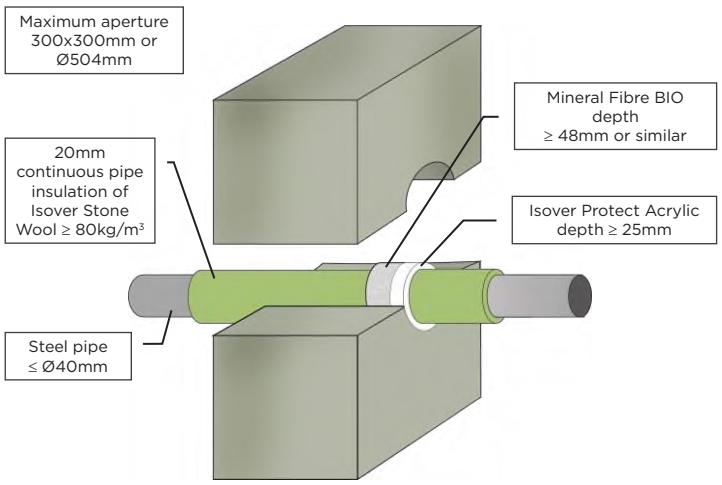

## STEEL PIPE FIRE RESISTANCE EI 20 C/U (E 120)

**≥ 150MM MASONRY OR CONCRETE WALLS**



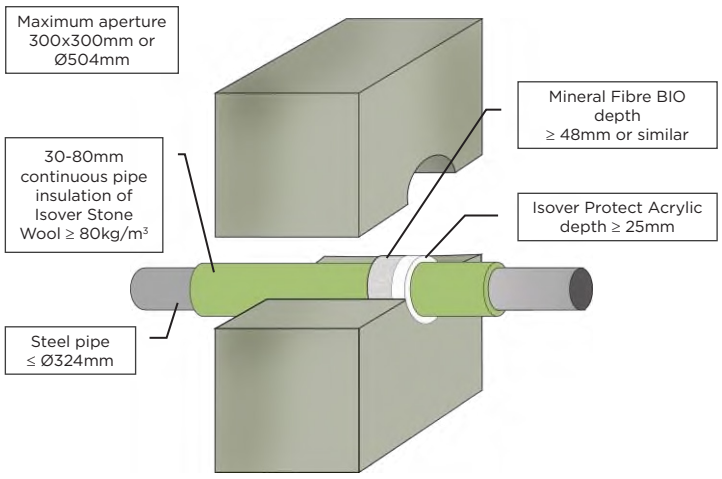

## INSULATED STEEL PIPE FIRE RESISTANCE EI 240 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



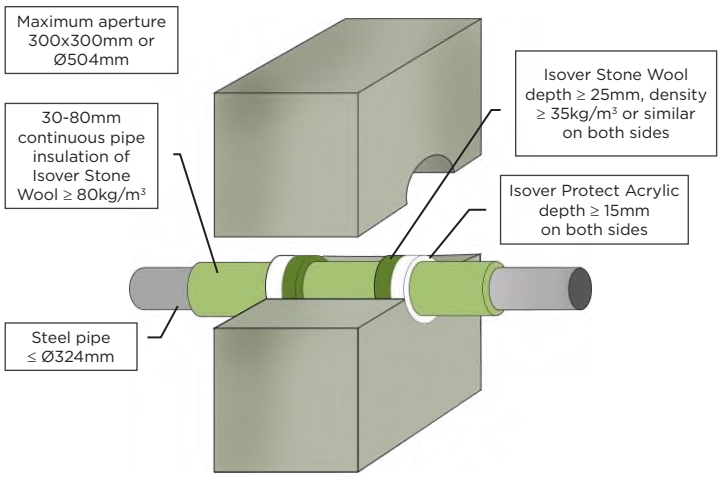
## INSULATED STEEL PIPE FIRE RESISTANCE EI 180 C/U (E 180)

**≥ 150MM MASONRY OR CONCRETE WALLS**



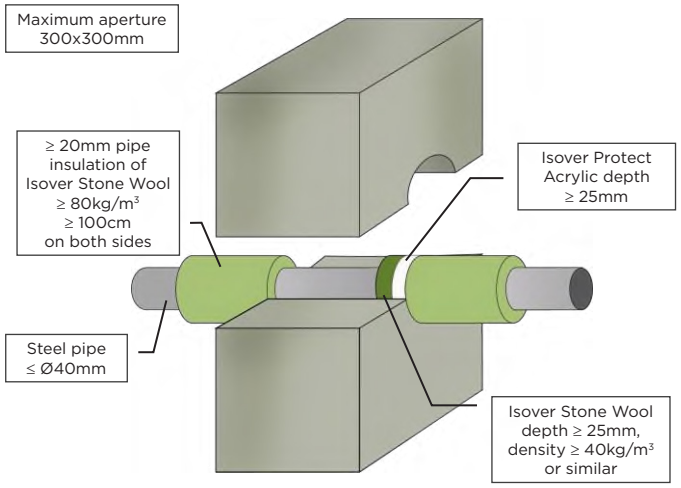

## INSULATED STEEL PIPE FIRE RESISTANCE EI 240 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



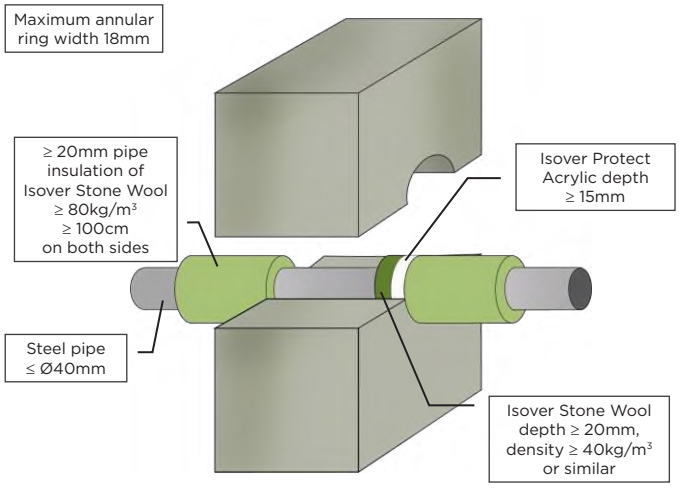

## STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



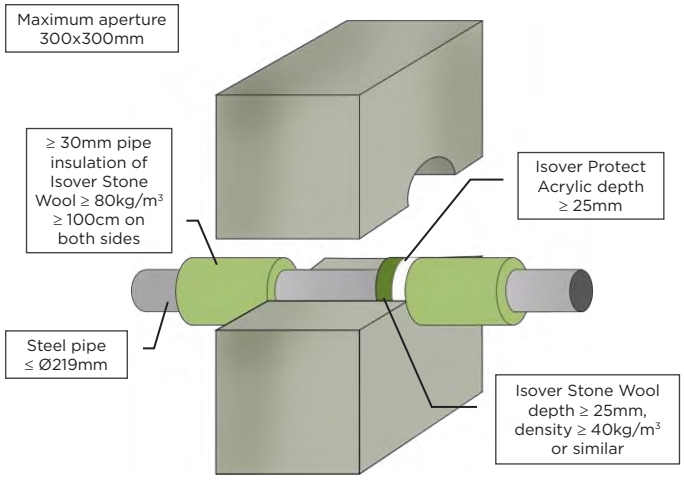

## STEEL PIPE FIRE RESISTANCE EI 240 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



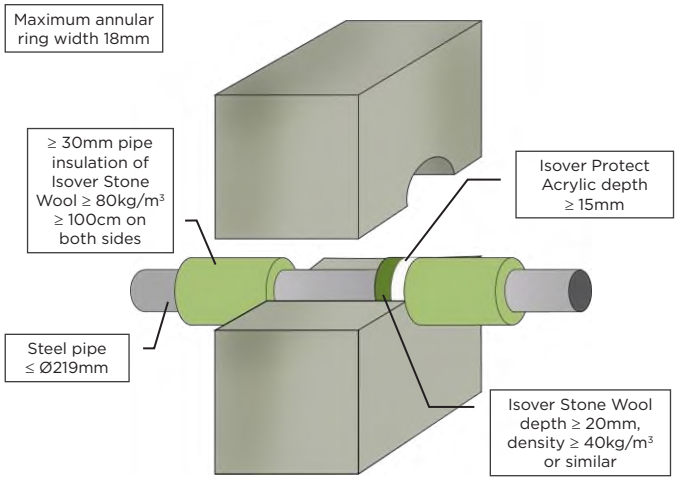

## STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



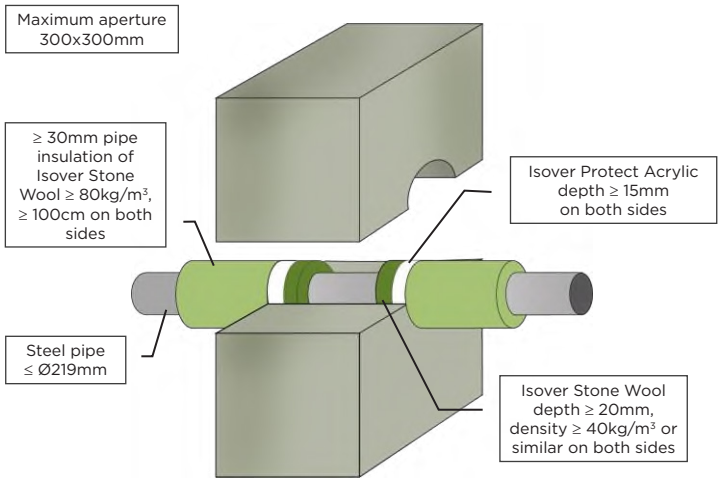

## STEEL PIPE FIRE RESISTANCE EI 90 C/U (E 180)

**≥ 150MM MASONRY OR CONCRETE WALLS**



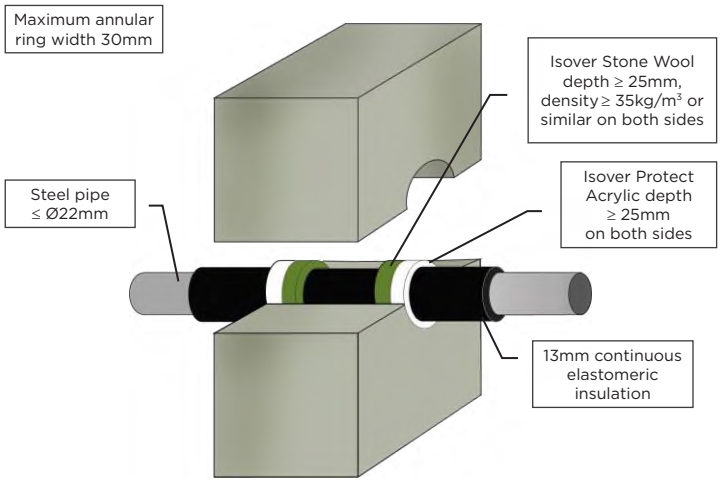
## STEEL PIPE FIRE RESISTANCE EI 120 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



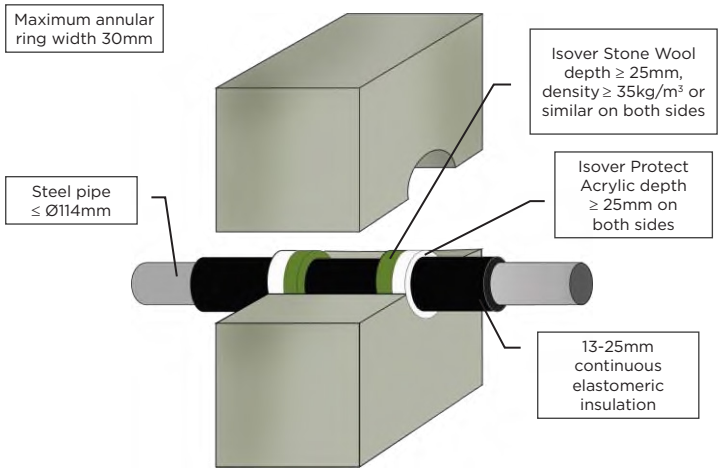

## STEEL PIPE FIRE RESISTANCE EI 180 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



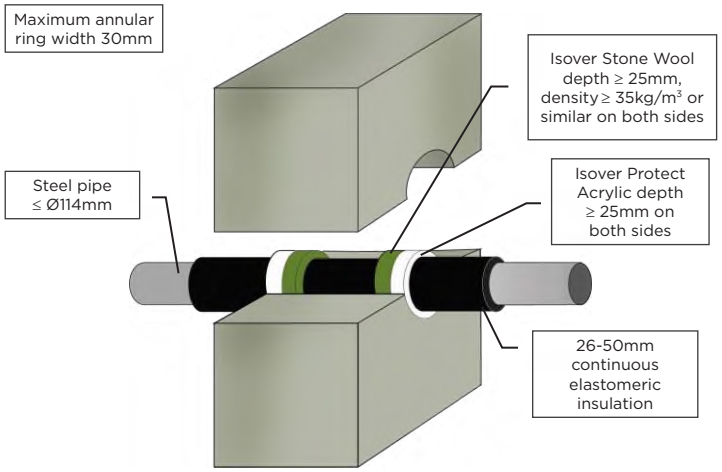

## STEEL PIPE FIRE RESISTANCE EI 90 C/U (E 120)

**≥ 150MM MASONRY OR CONCRETE WALLS**



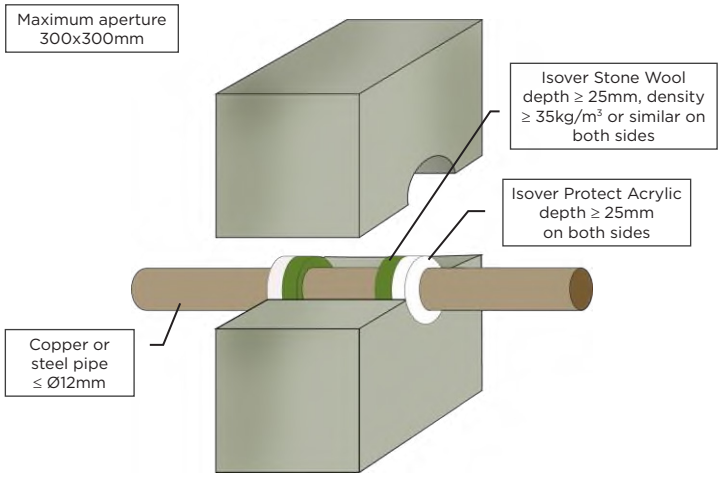

## STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 60)

**≥ 150MM MASONRY OR CONCRETE WALLS**



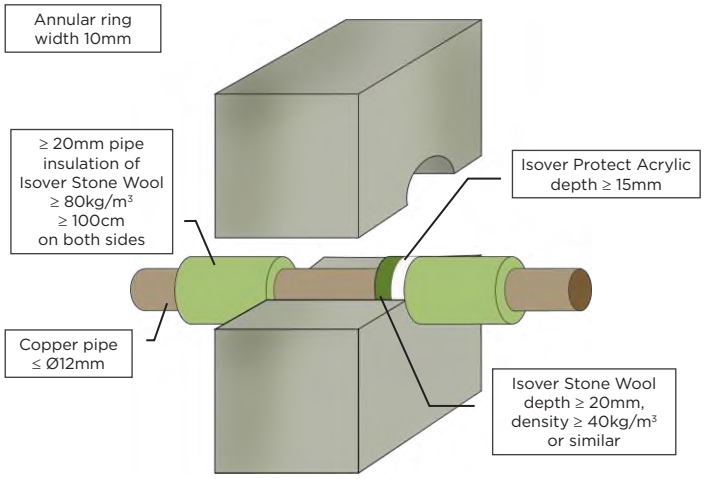

## COPPER OR STEEL PIPE FIRE RESISTANCE EI 120 C/C (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



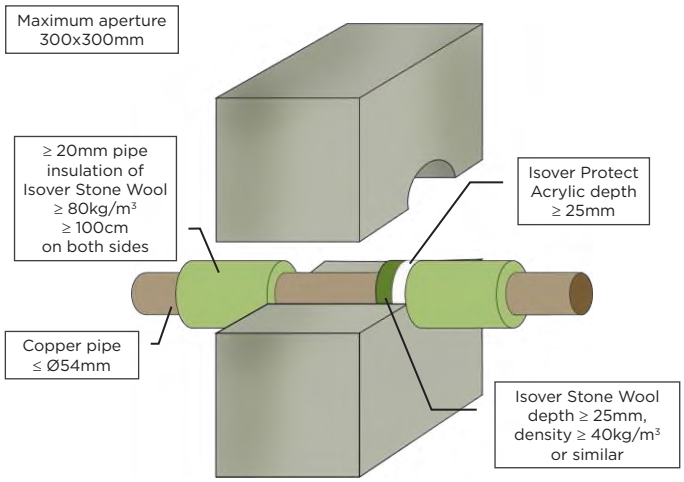

## COPPER PIPE FIRE RESISTANCE EI 240 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



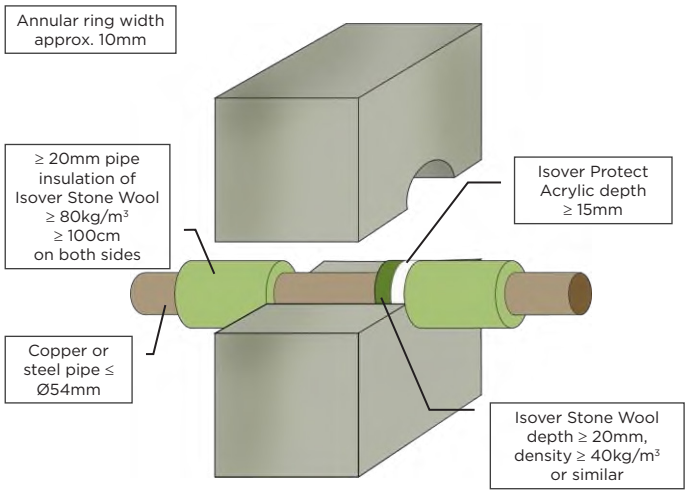
## COPPER PIPE FIRE RESISTANCE EI 60 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



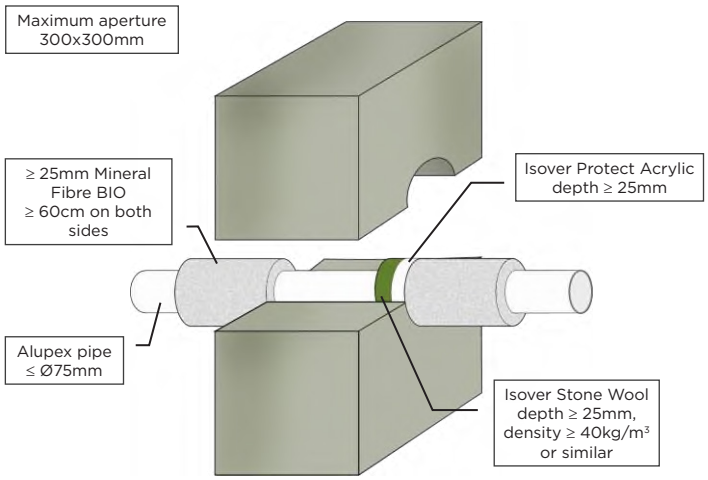

## COPPER OR STEEL PIPE FIRE RESISTANCE EI 180 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



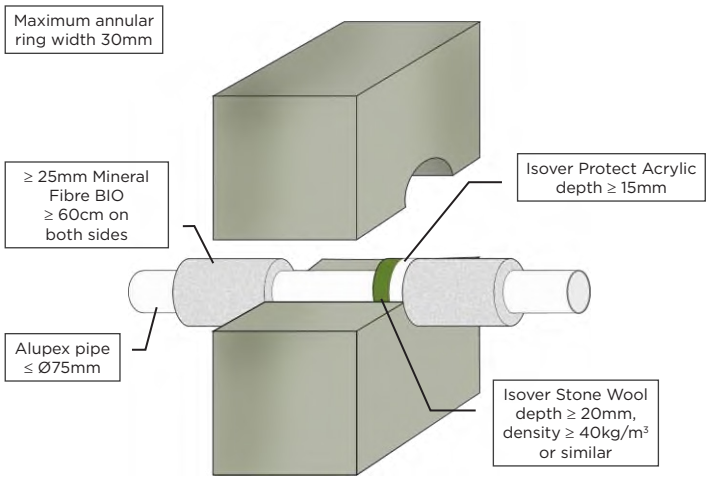

## ALUPEX PIPE FIRE RESISTANCE EI 60 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



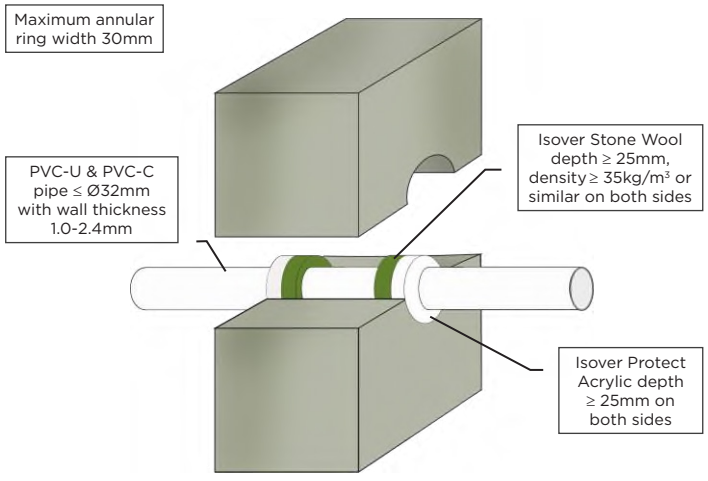

## ALUPEX PIPE FIRE RESISTANCE EI 120 C/U (E 120)

**≥ 150MM MASONRY OR CONCRETE WALLS**



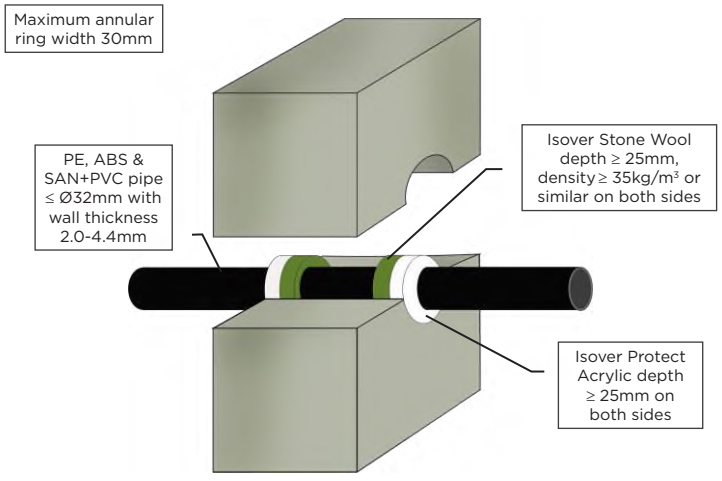

## PVC PLASTIC PIPE FIRE RESISTANCE EI 240 U/C (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



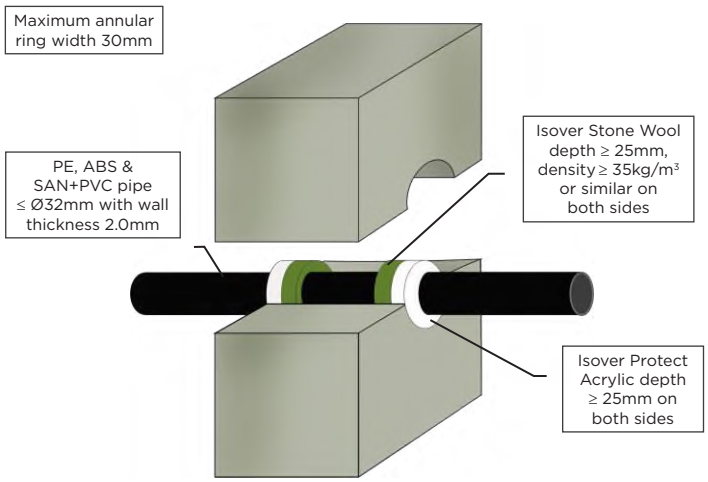

## PE PLASTIC PIPE FIRE RESISTANCE EI 120 C/U (E 120)

**≥ 150MM MASONRY OR CONCRETE WALLS**



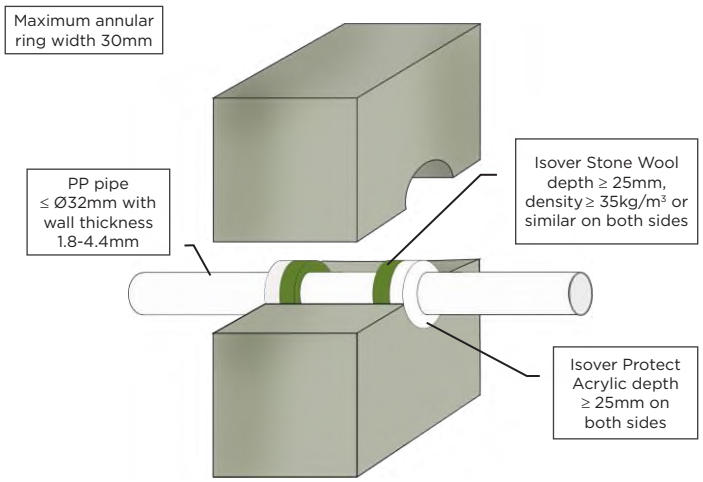
## PE PLASTIC PIPE FIRE RESISTANCE EI 240 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



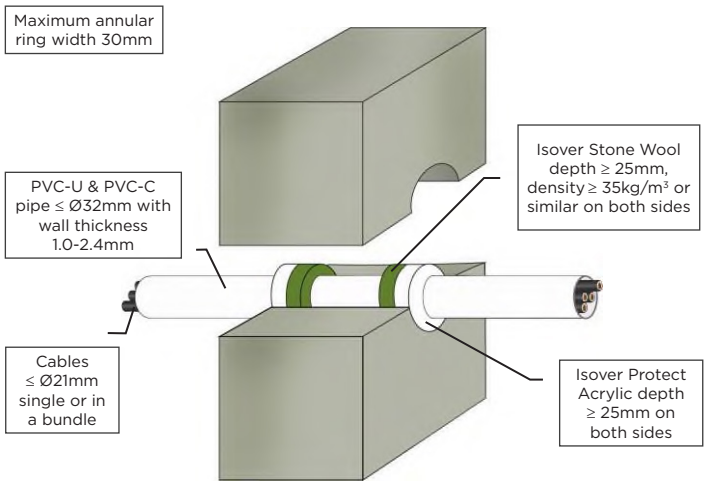

## PP PLASTIC PIPE FIRE RESISTANCE EI 240 C/U (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



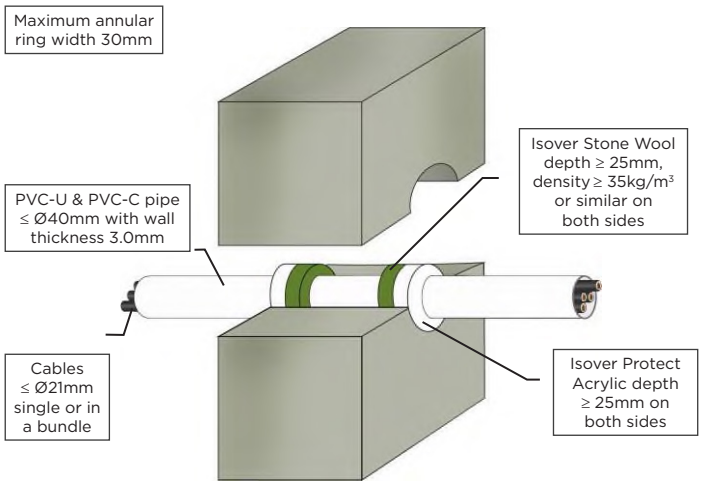

## PVC CONDUIT FIRE RESISTANCE EI 120 U/C (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



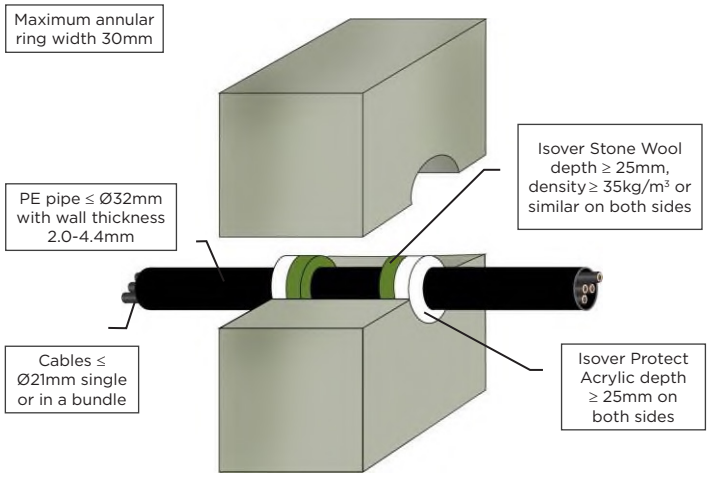

## PVC CONDUIT FIRE RESISTANCE EI 120 U/C (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



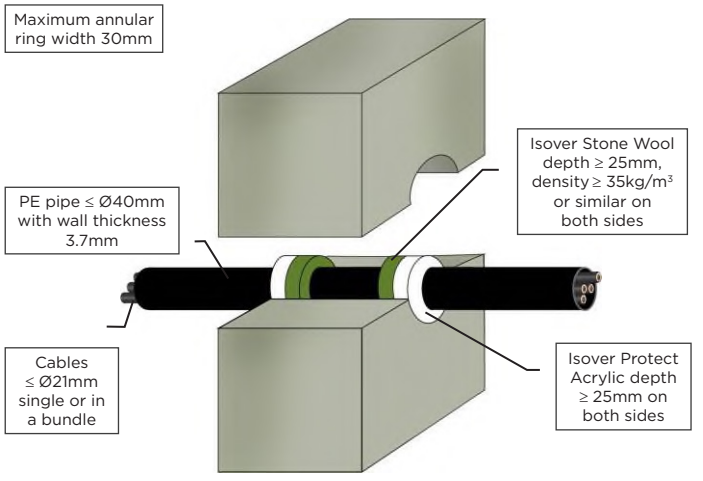

## PE CONDUIT FIRE RESISTANCE EI 120 U/C (E 120)

**≥ 150MM MASONRY OR CONCRETE WALLS**



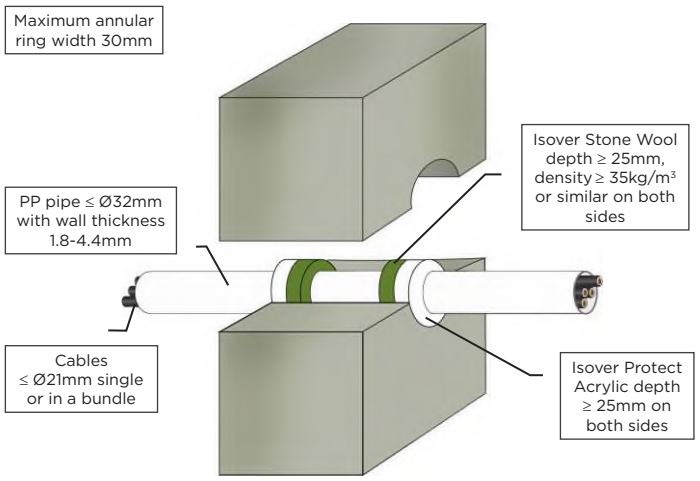

## PE CONDUIT FIRE RESISTANCE EI 240 U/C (E 240)

**≥ 150MM MASONRY OR CONCRETE WALLS**



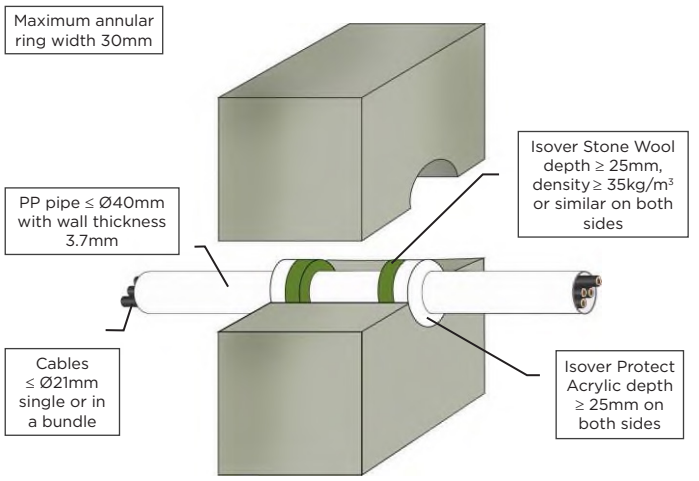
## PP CONDUIT FIRE RESISTANCE EI 120 U/C (E 180)

**≥ 150MM MASONRY OR CONCRETE WALLS**



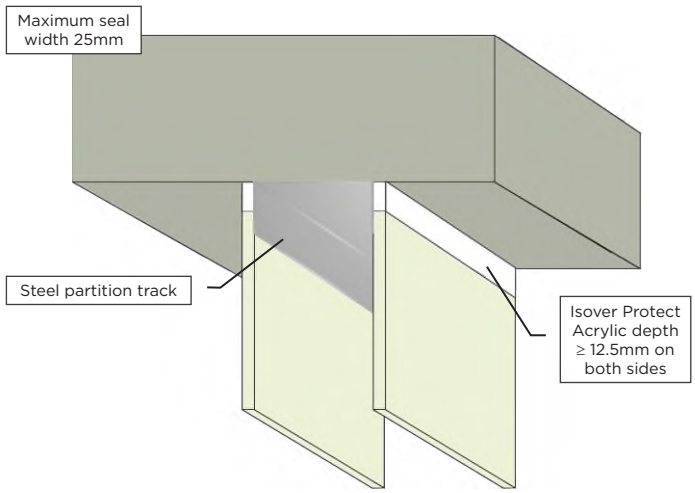

## PP CONDUIT FIRE RESISTANCE EI 120 U/C (E 180)

**≥ 150MM MASONRY OR CONCRETE WALLS**



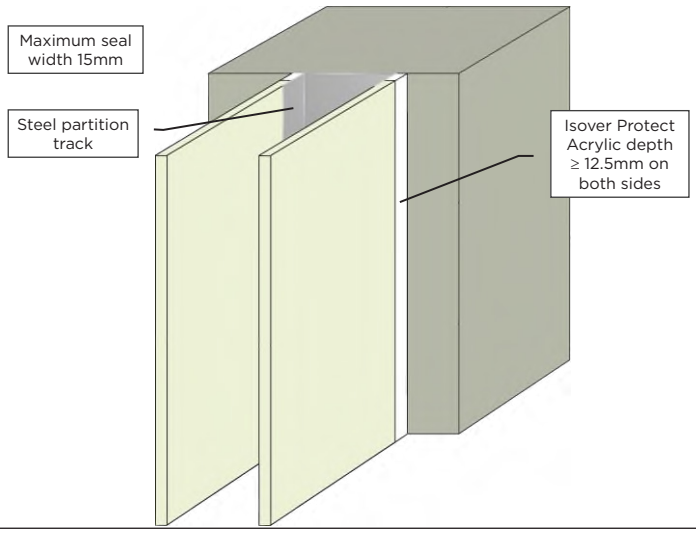

## HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 45 (E 60)

**BETWEEN ≥ 75MM DRYWALLS AND FLOORS**



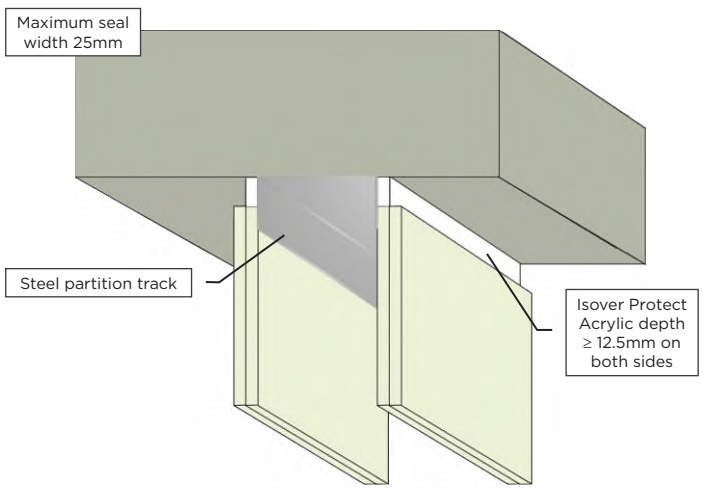

## VERTICAL LINEAR SEALS FIRE RESISTANCE EI 45 (E 60)

**IN ≥ 75MM DRYWALLS OR BETWEEN WALLS**



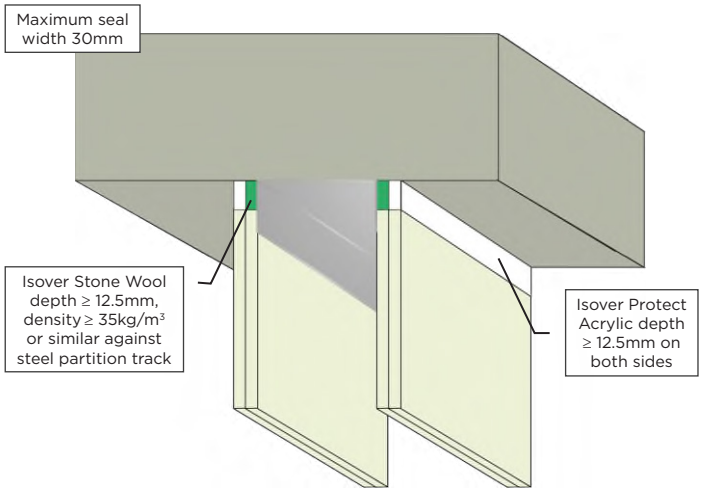

## HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 90 (E 90)

**BETWEEN ≥ 100MM DRYWALLS AND FLOORS**



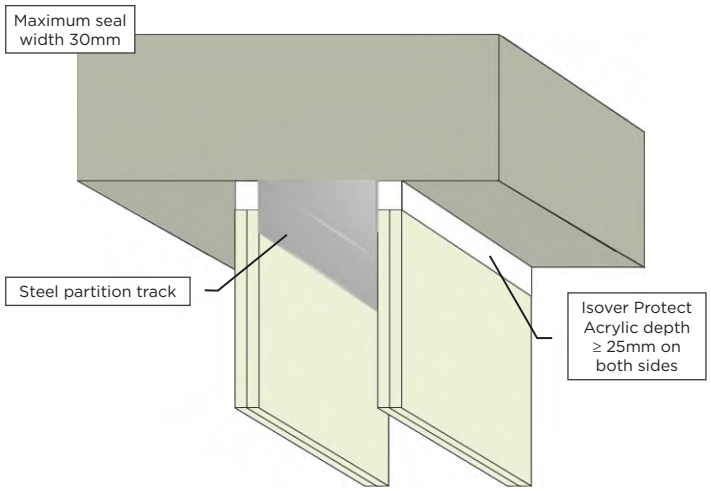

## HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 120)

**BETWEEN ≥ 100MM DRYWALLS AND FLOORS**



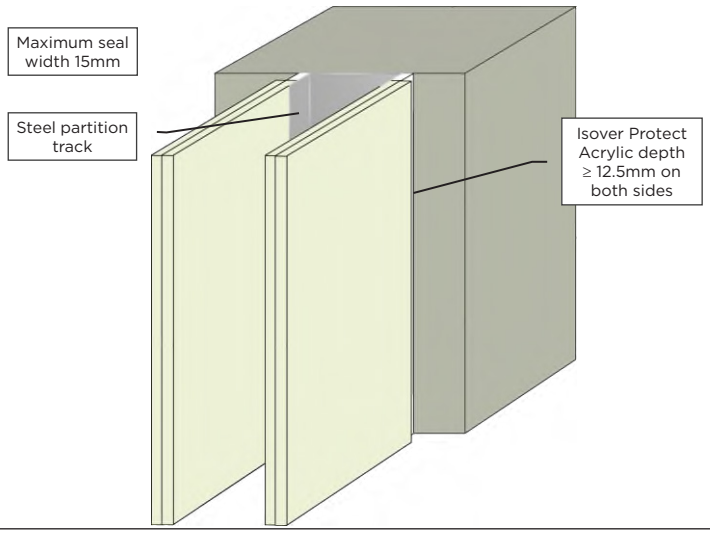
## HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 120)

**BETWEEN ≥ 100MM DRYWALLS AND FLOORS**



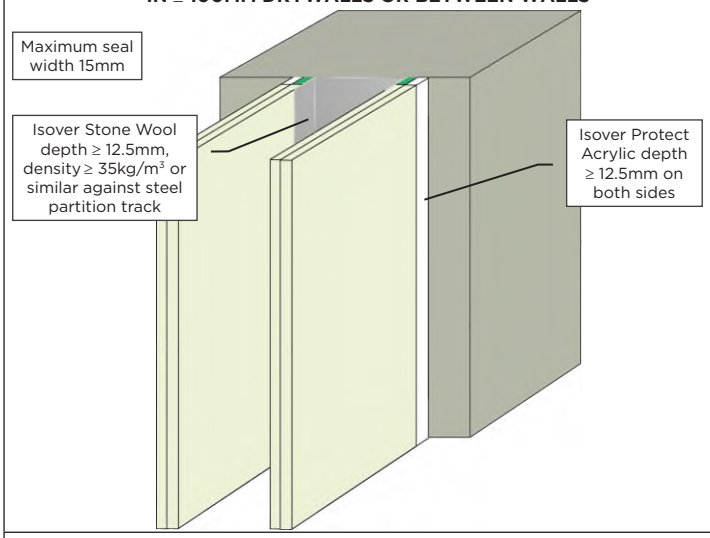

## VERTICAL LINEAR SEALS FIRE RESISTANCE EI 90 (E 90)

**IN ≥ 100MM DRYWALLS OR BETWEEN WALLS**



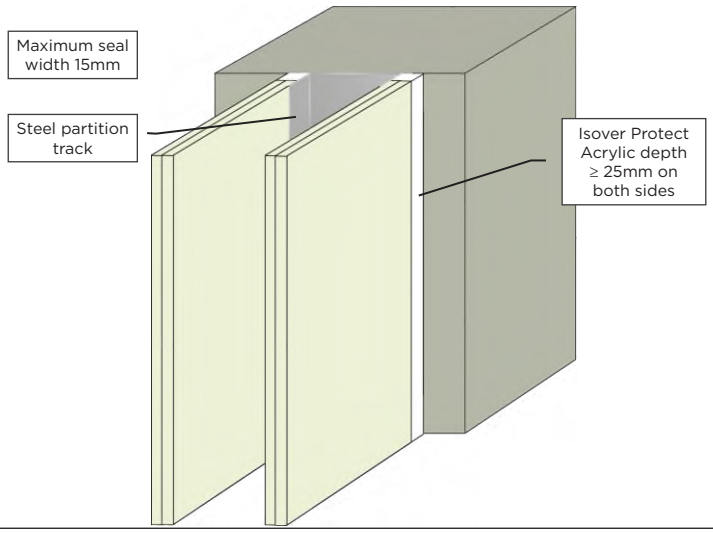

## VERTICAL LINEAR SEALS FIRE RESISTANCE EI 90 (E 90)

**IN ≥ 100MM DRYWALLS OR BETWEEN WALLS**



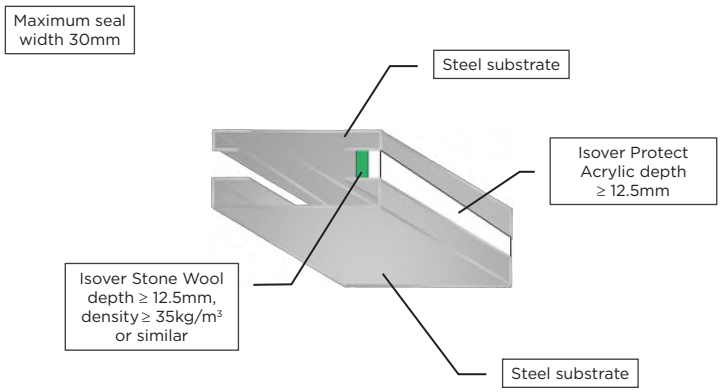

## VERTICAL LINEAR SEALS FIRE RESISTANCE EI 90 (E 90)

**IN ≥ 100MM DRYWALLS OR BETWEEN WALLS**



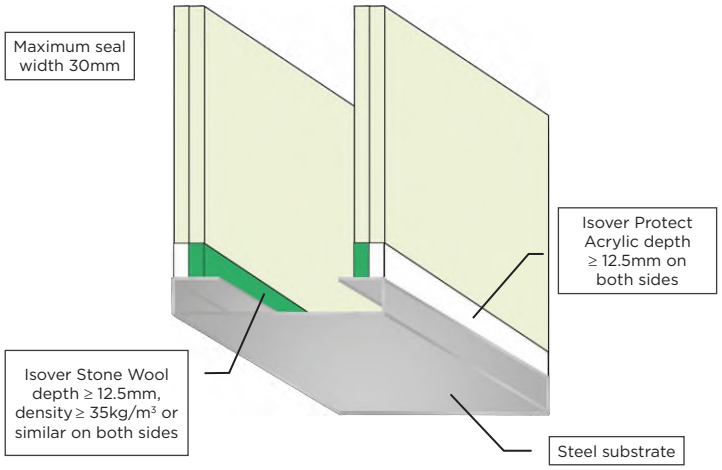

## HORIZONTAL & VERTICAL SEALS FIRE RESISTANCE EI 30 (E 120)

**IN ≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



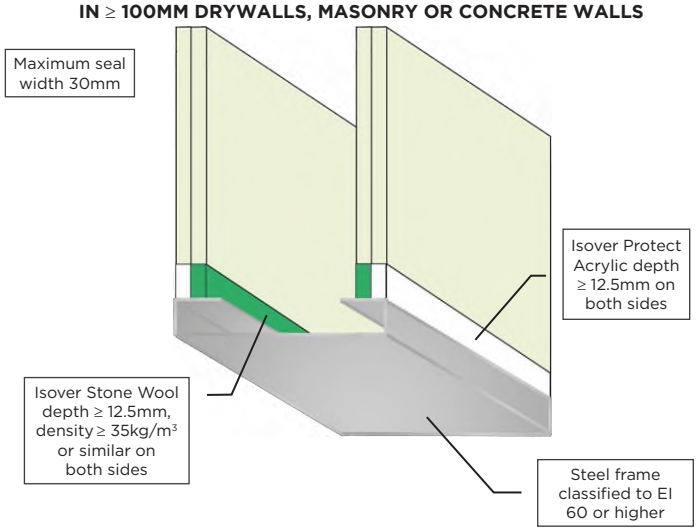

## HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 45 (E 120)

**IN ≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



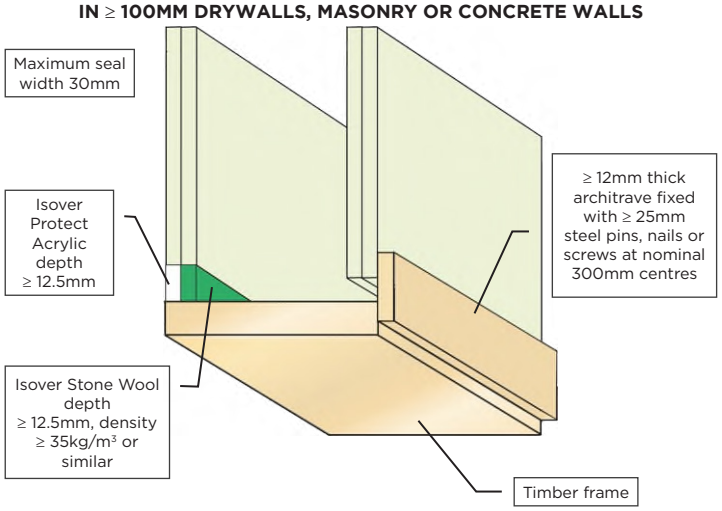
## HORIZONTAL & VERTICAL SEALS FIRE RESISTANCE EI 60 (E 120)

**IN ≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



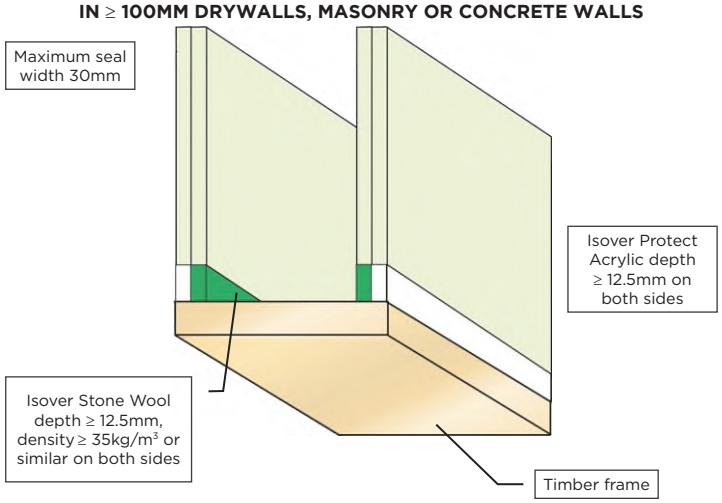

## HORIZONTAL & VERTICAL SEALS FIRE RESISTANCE EI 60 (E 60)

**IN ≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



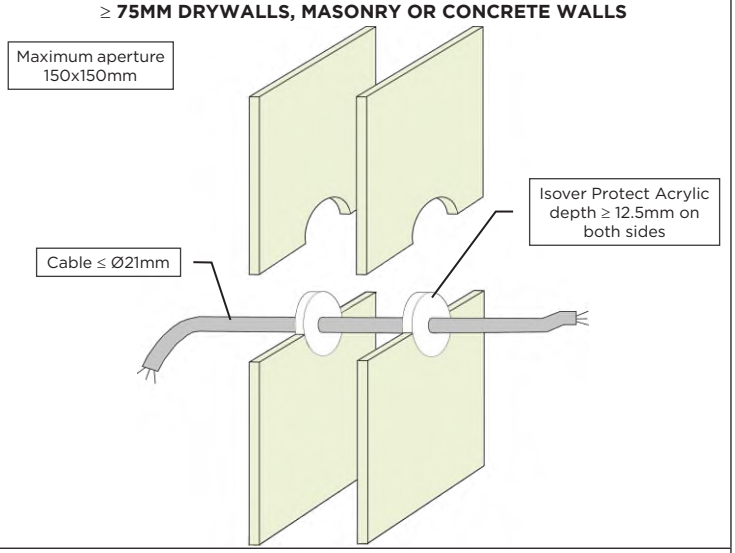

## HORIZONTAL & VERTICAL SEALS FIRE RESISTANCE EI 60 (E 90)

**IN ≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



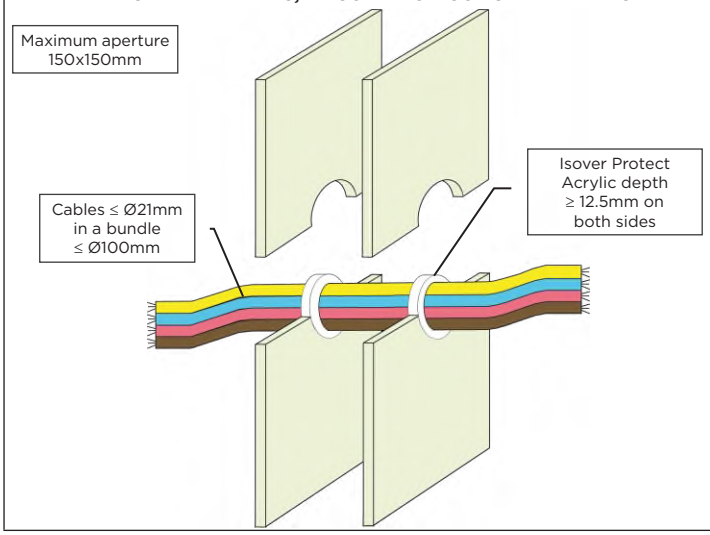

## CABLES FIRE RESISTANCE EI 45 (E 60)

**≥ 75MM DRYWALLS, MASONRY OR CONCRETE WALLS**



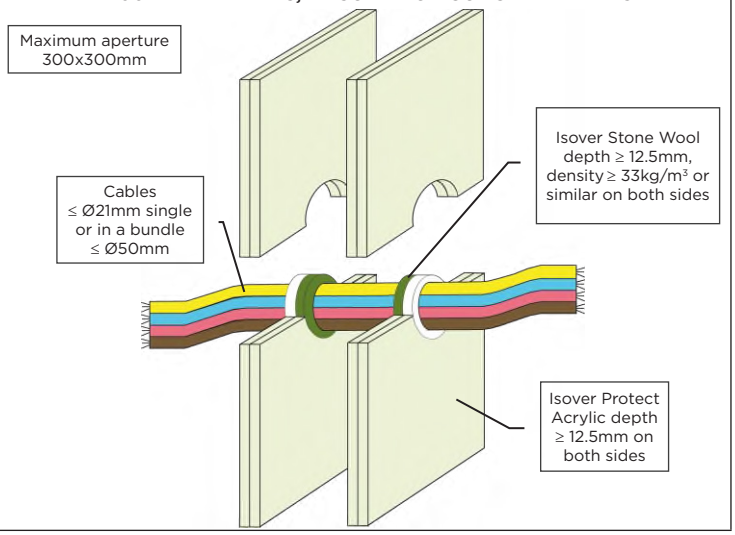

## CABLES FIRE RESISTANCE EI 30 (E 45)

**≥ 75MM DRYWALLS, MASONRY OR CONCRETE WALLS**



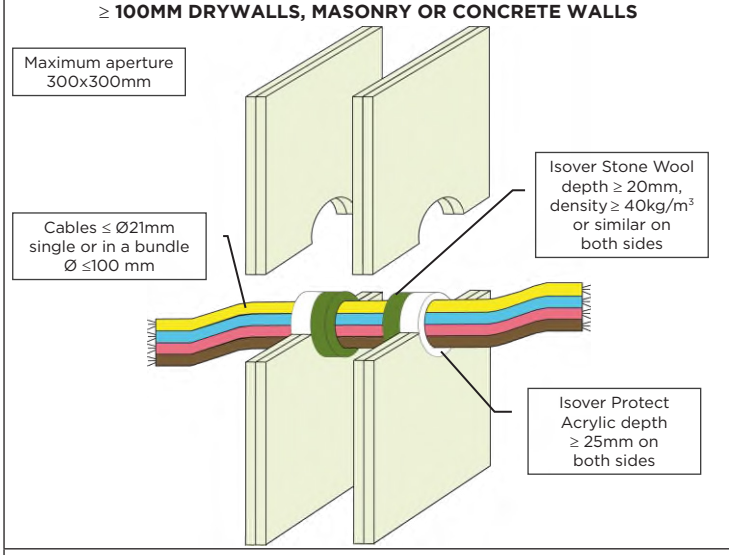

## CABLES FIRE RESISTANCE EI 90 (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



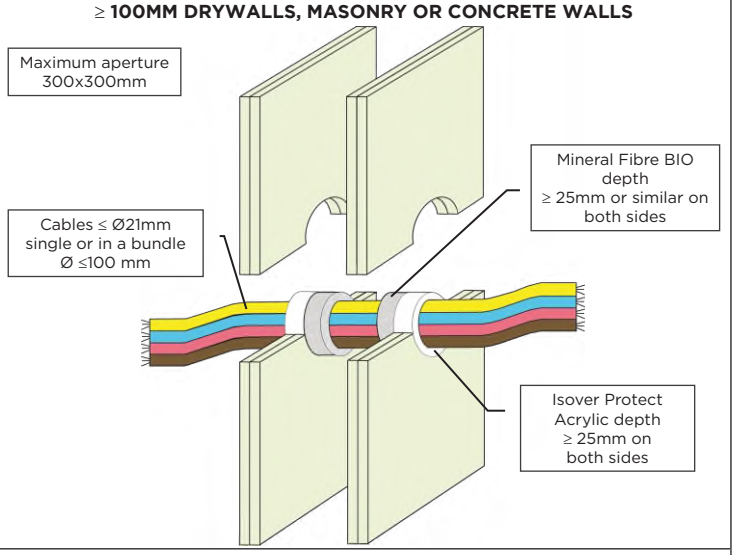
## CABLES FIRE RESISTANCE EI 120 (E 120)

### ≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



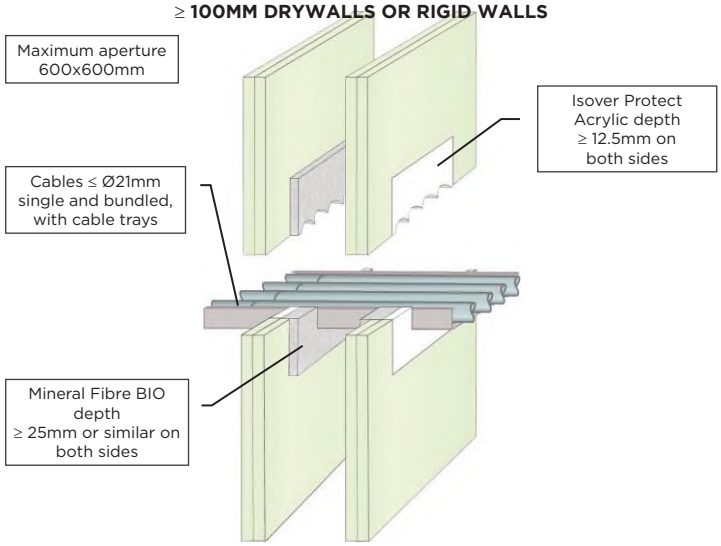

## CABLES FIRE RESISTANCE EI 60 (E 120)

### ≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



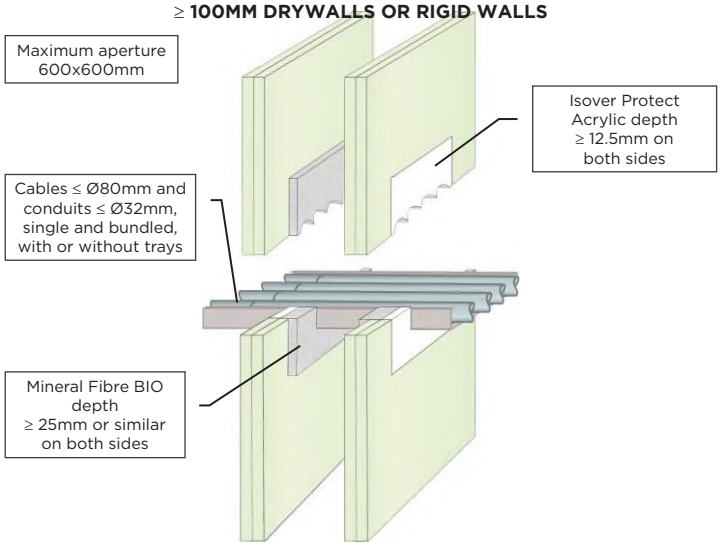

## CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 90)

### ≥ 100MM DRYWALLS OR RIGID WALLS



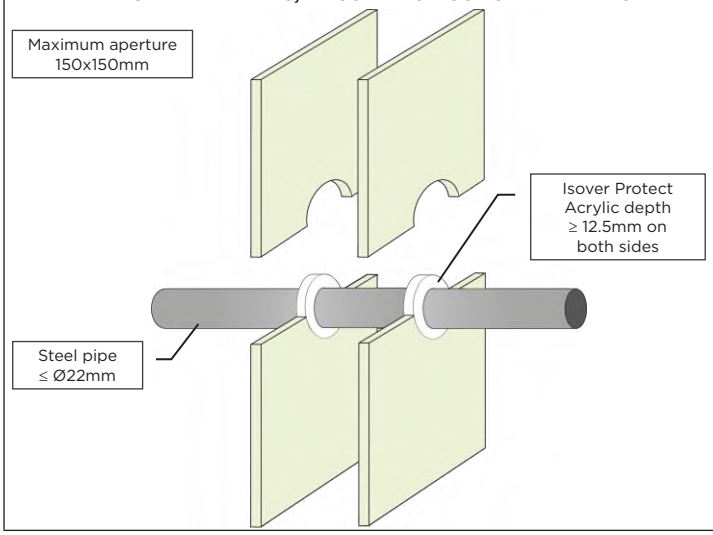

## CABLES AND CABLE TRAYS FIRE RESISTANCE EI 30 (E 60)

### ≥ 100MM DRYWALLS OR RIGID WALLS



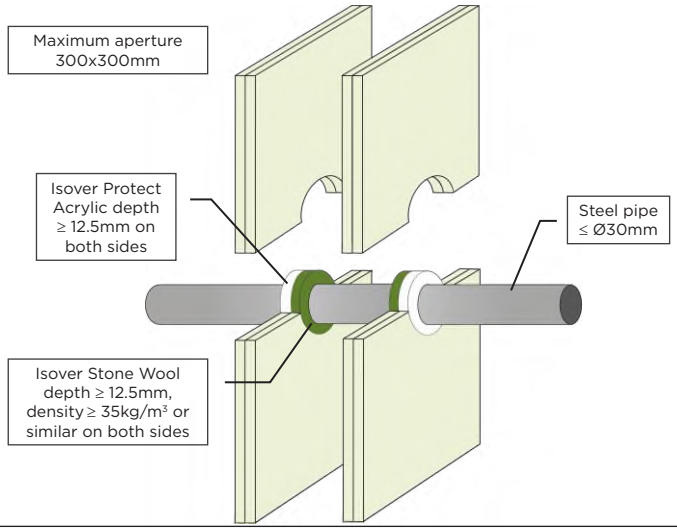

## STEEL PIPE FIRE RESISTANCE EI 30 C/U (E 60)

### ≥ 75MM DRYWALLS, MASONRY OR CONCRETE WALLS



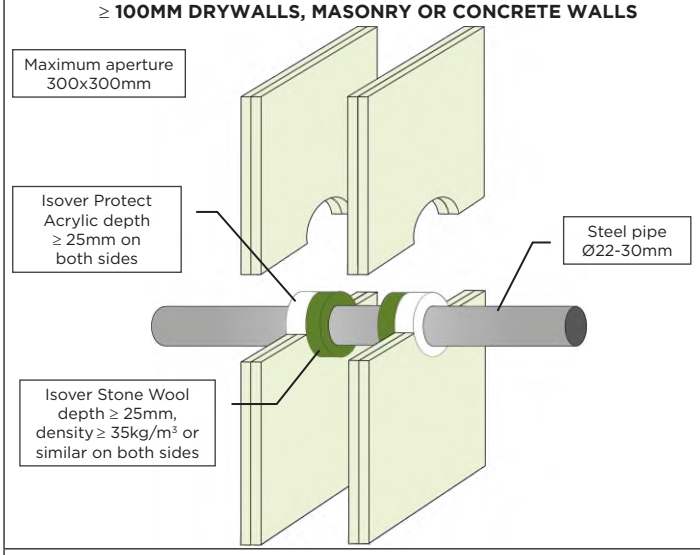

## STEEL PIPE FIRE RESISTANCE EI 90 C/C (E 90)

### ≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



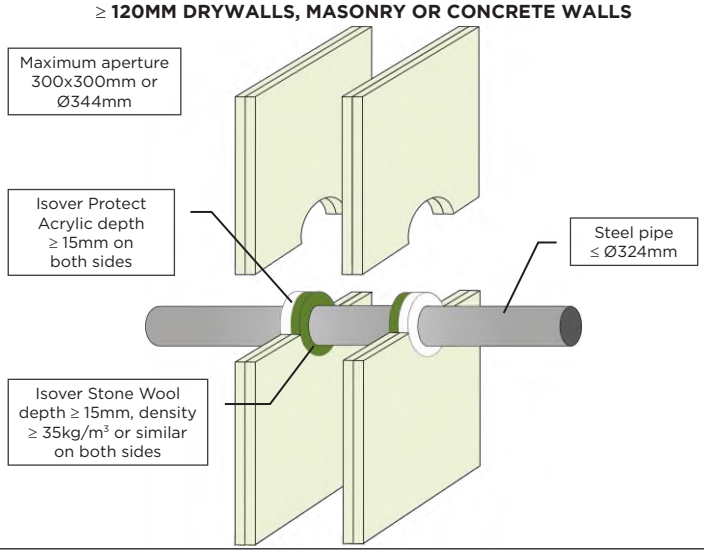
## STEEL PIPE FIRE RESISTANCE EI 120 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



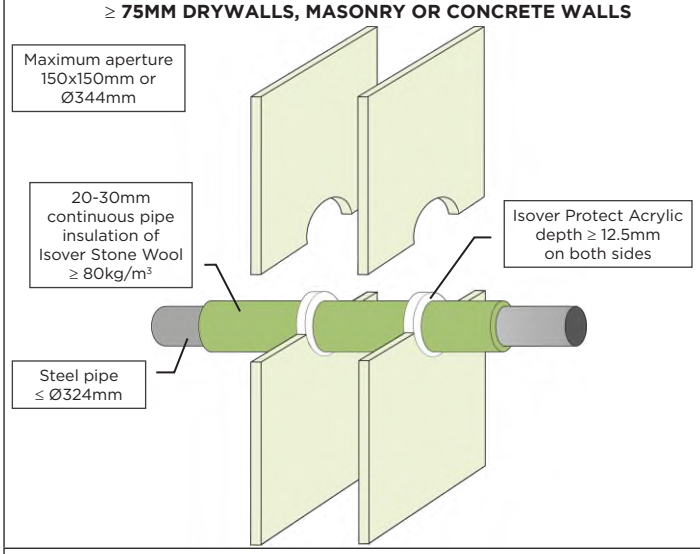

## STEEL PIPE FIRE RESISTANCE E 120 C/U

**≥ 120MM DRYWALLS, MASONRY OR CONCRETE WALLS**



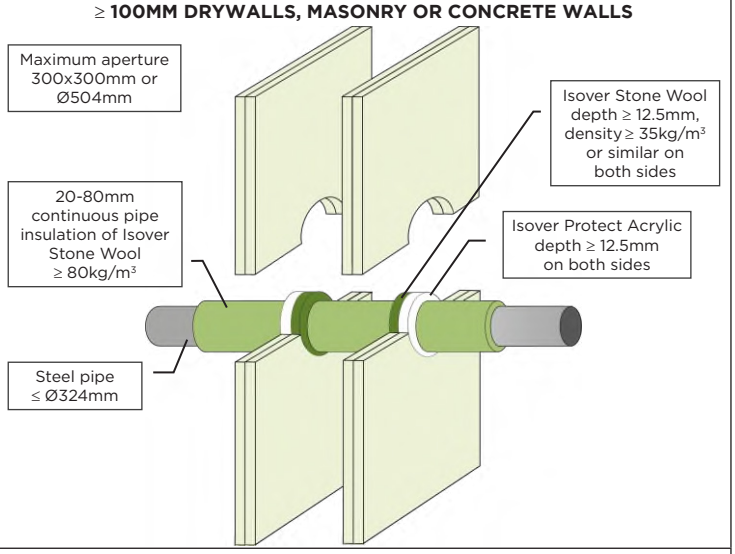

## INSULATED STEEL PIPE FIRE RESISTANCE EI 45 C/U (E 60)

**≥ 75MM DRYWALLS, MASONRY OR CONCRETE WALLS**



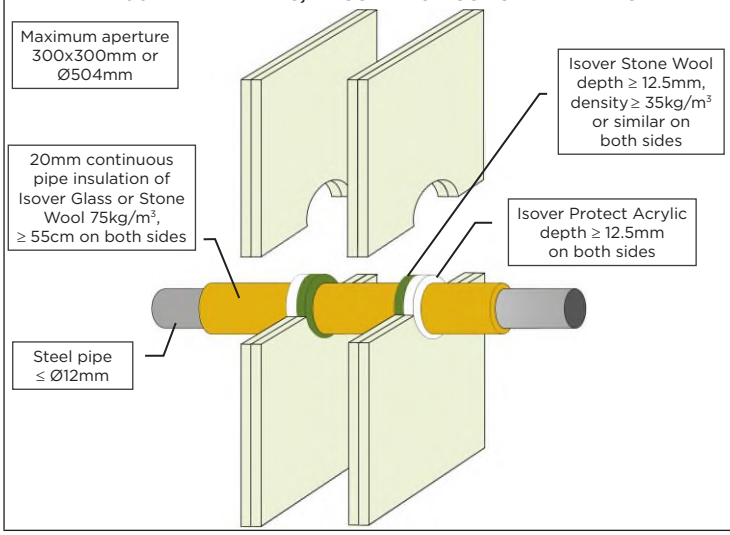

## INSULATED STEEL PIPE FIRE RESISTANCE EI 90 C/U (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



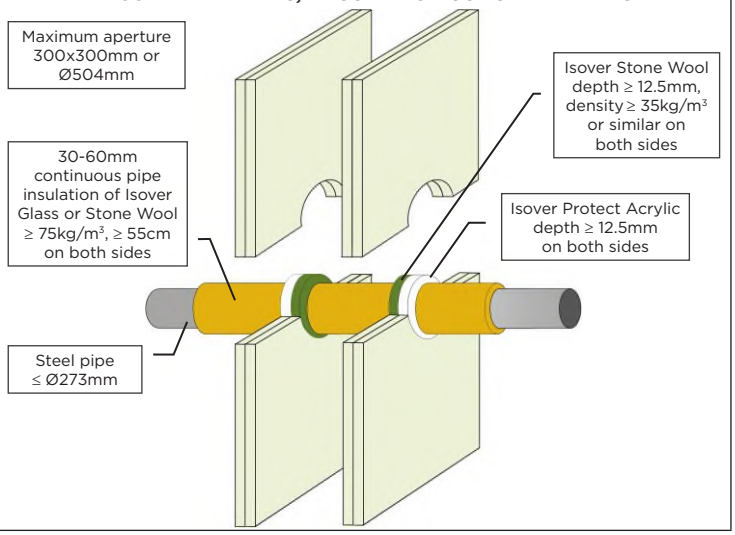

## INSULATED STEEL PIPE FIRE RESISTANCE EI 60 C/C (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



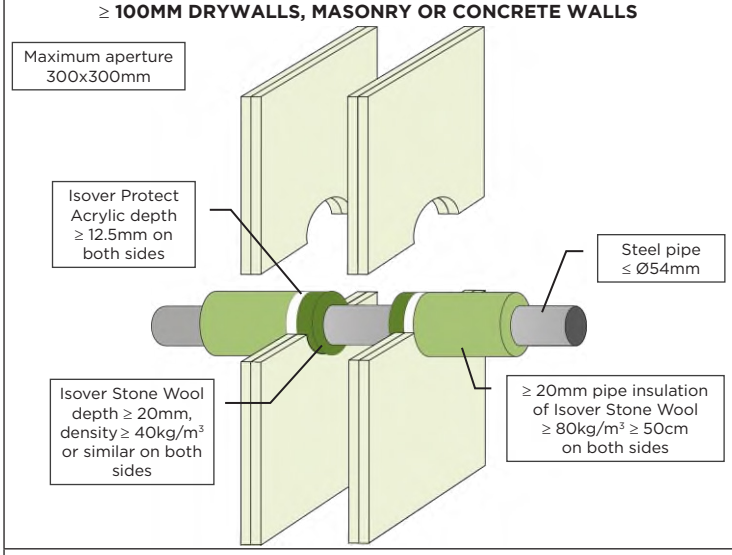

## INSULATED STEEL PIPE FIRE RESISTANCE EI 60 C/C (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



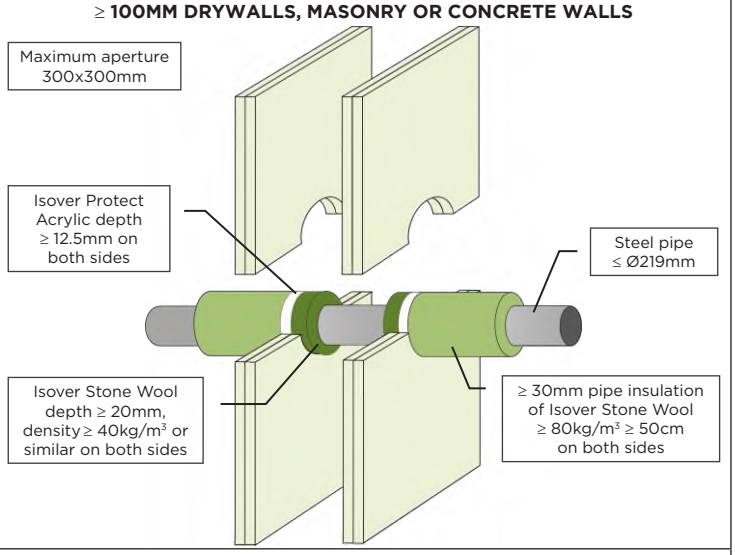
## STEEL PIPE FIRE RESISTANCE EI 120 C/U (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



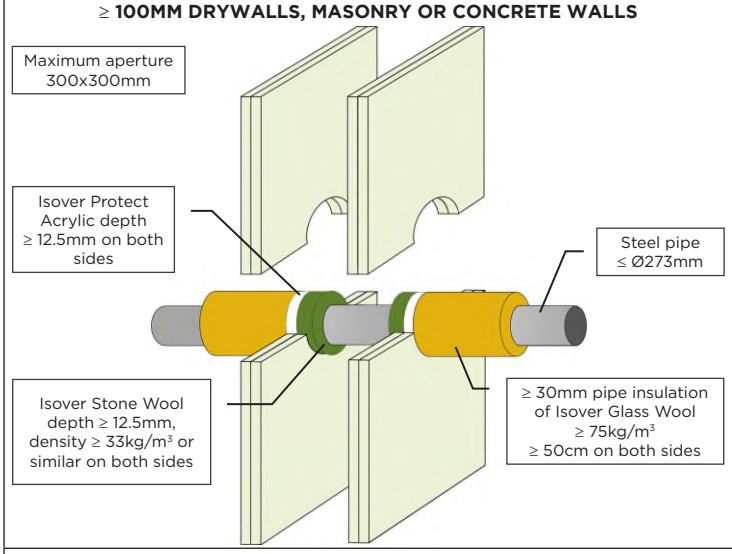

## STEEL PIPE FIRE RESISTANCE EI 90 C/U (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



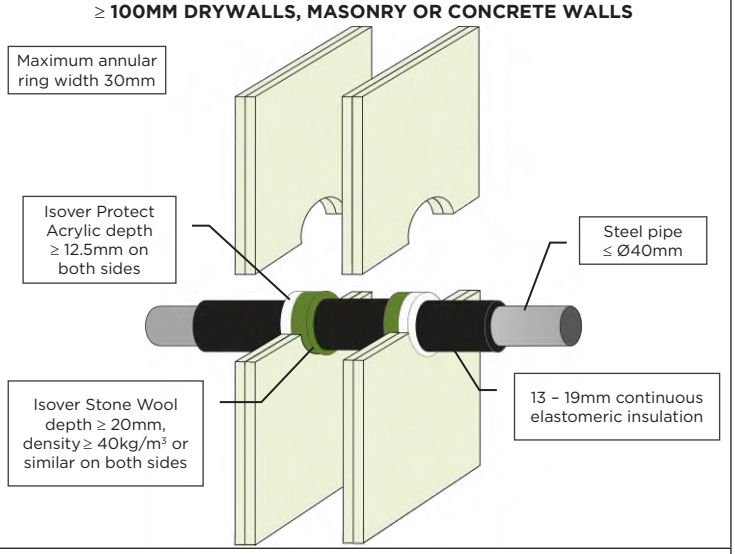

## STEEL PIPE FIRE RESISTANCE EI 60 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



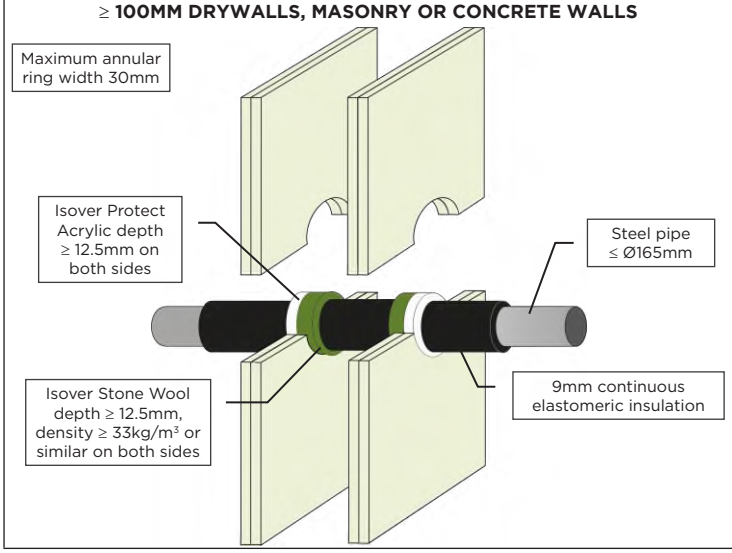

## STEEL PIPE FIRE RESISTANCE EI 120 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



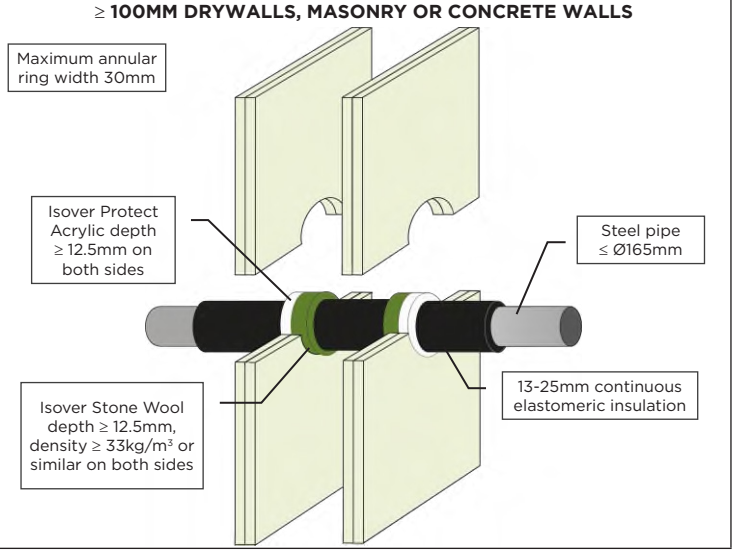

## STEEL PIPE FIRE RESISTANCE EI 45 C/U (E 90)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



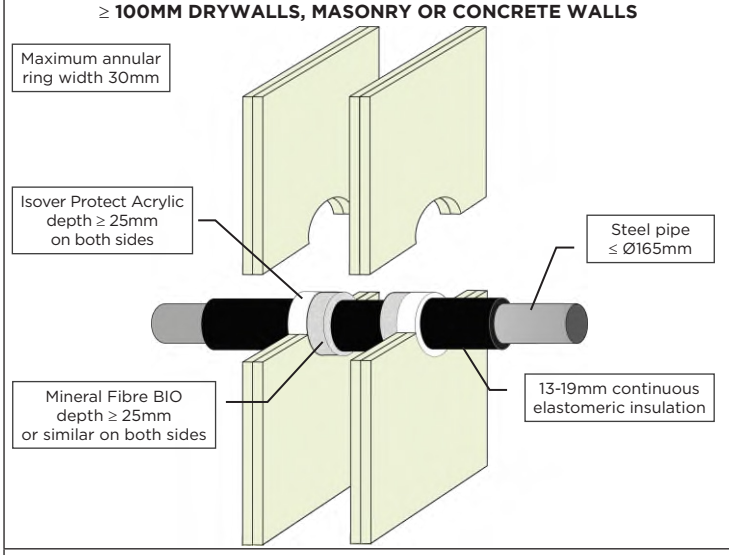

## STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



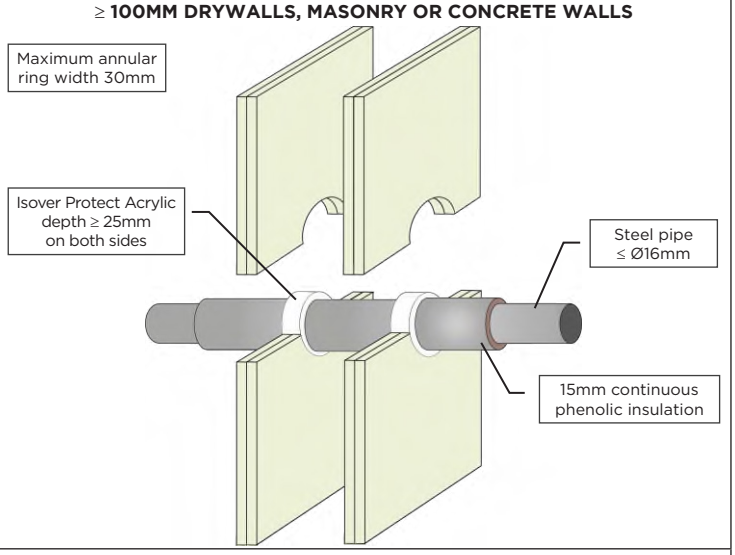
## STEEL PIPE FIRE RESISTANCE EI 60 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



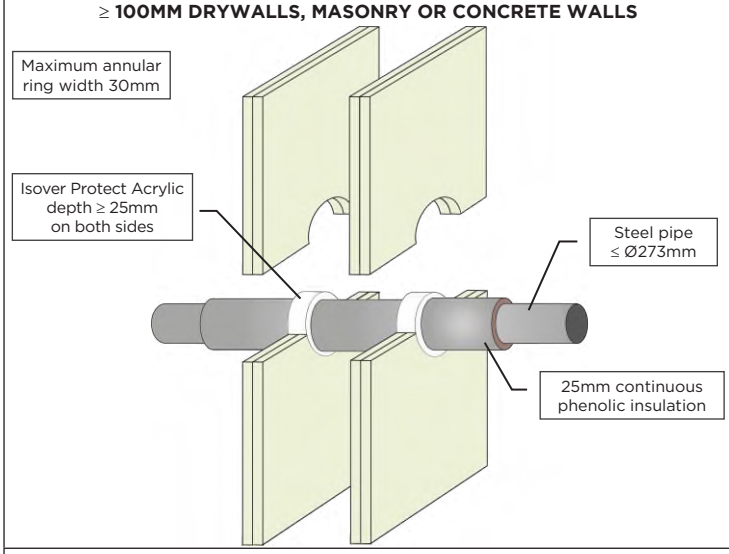

## STEEL PIPE FIRE RESISTANCE EI 90 C/U (E 90)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



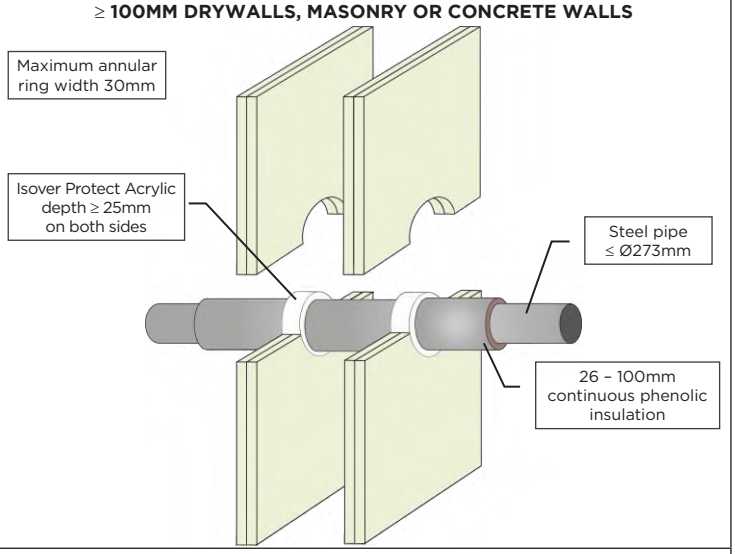

## STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 90)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



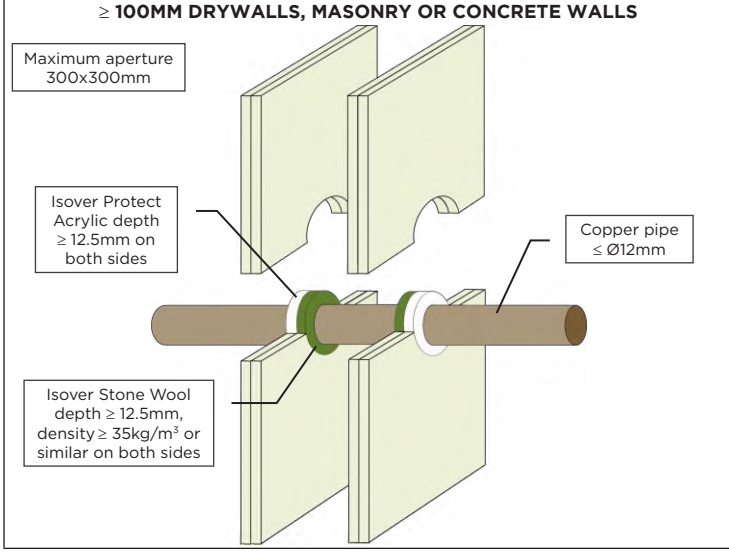

## STEEL PIPE FIRE RESISTANCE EI 60 C/U (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



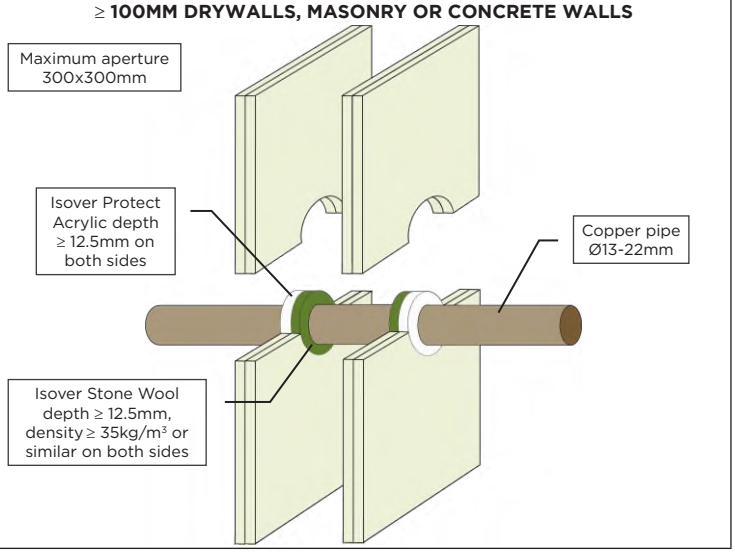

## COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 90)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



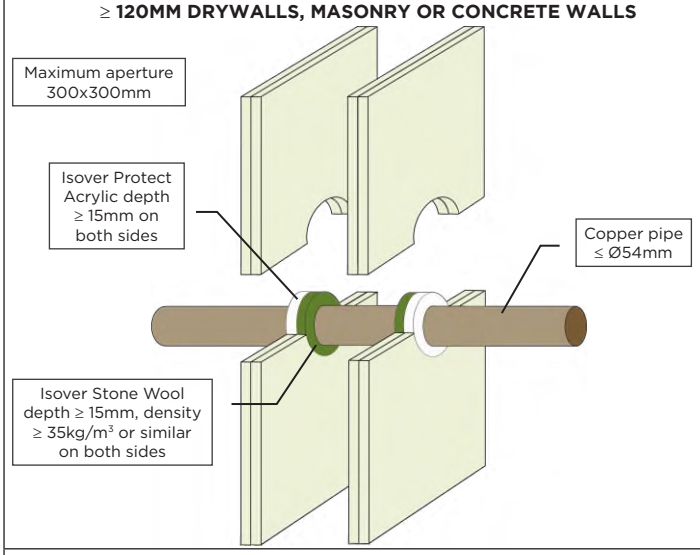

## COPPER PIPE FIRE RESISTANCE EI 30 C/C (E 90)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



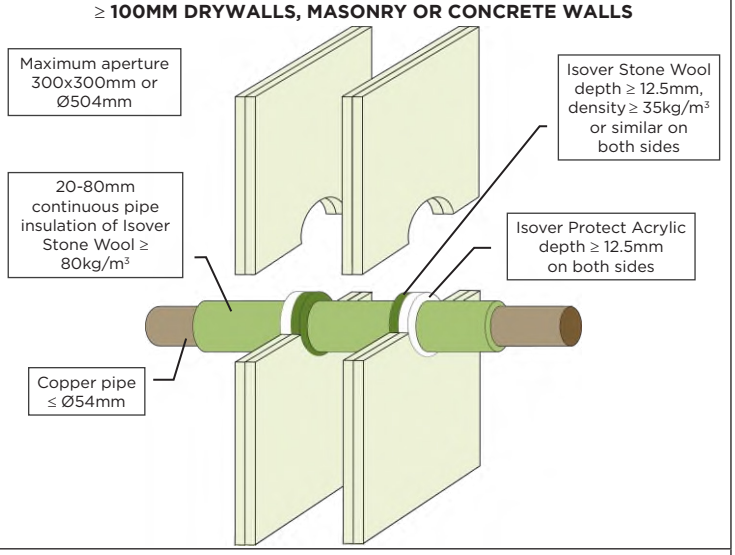
## COPPER PIPE FIRE RESISTANCE E 120 C/C

**≥ 120MM DRYWALLS, MASONRY OR CONCRETE WALLS**



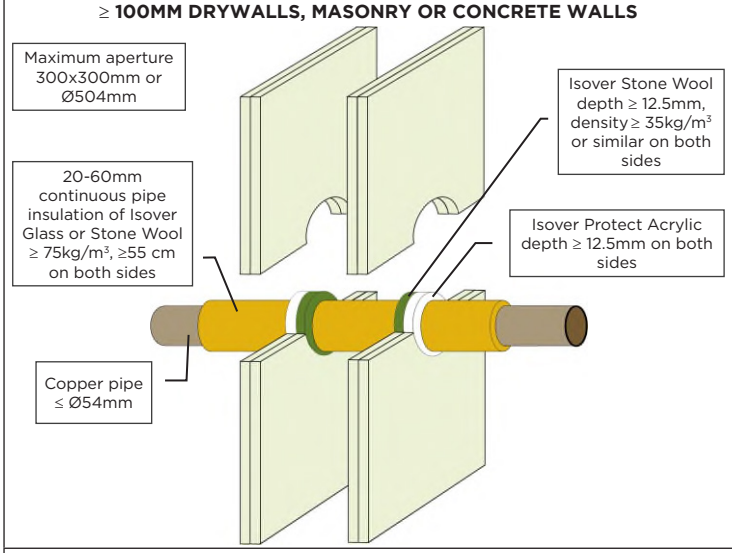

## INSULATED COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



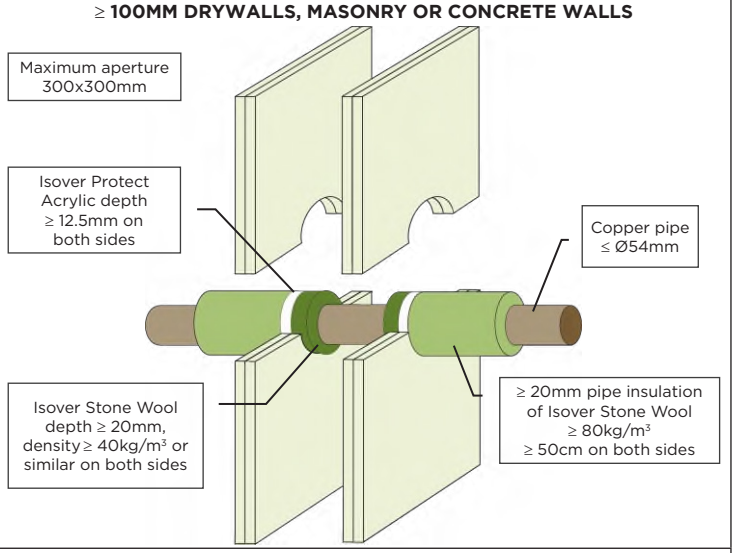

## INSULATED COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



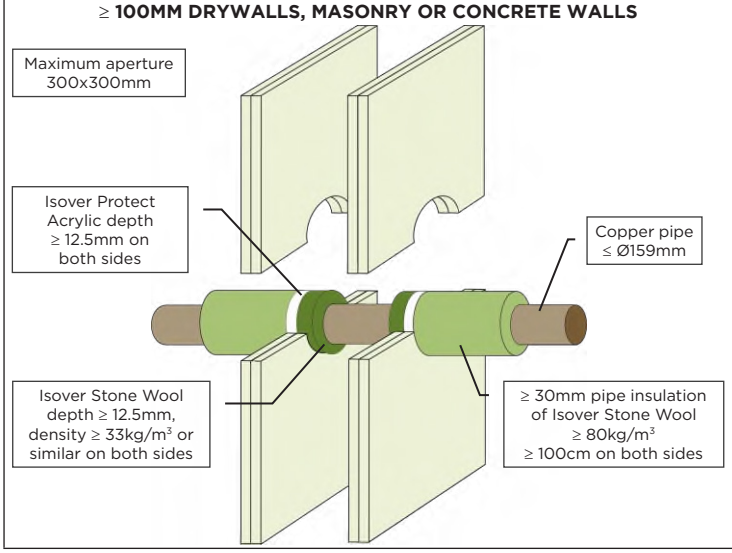

## COPPER PIPE FIRE RESISTANCE EI 120 C/U (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



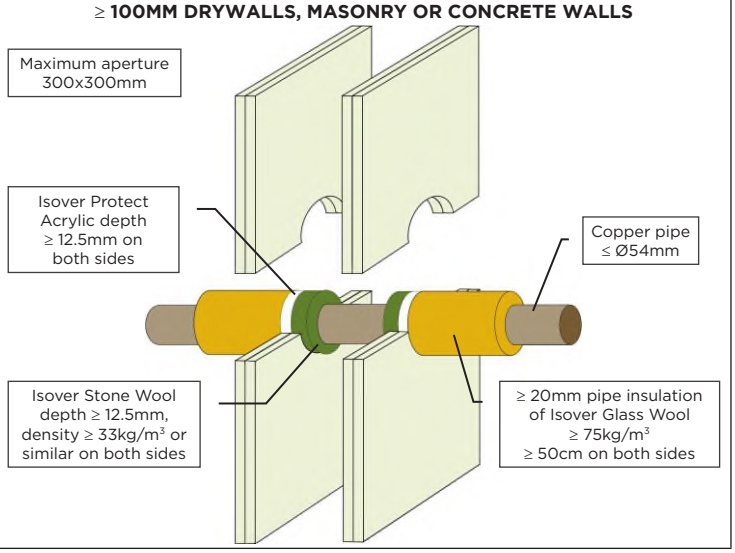

## COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



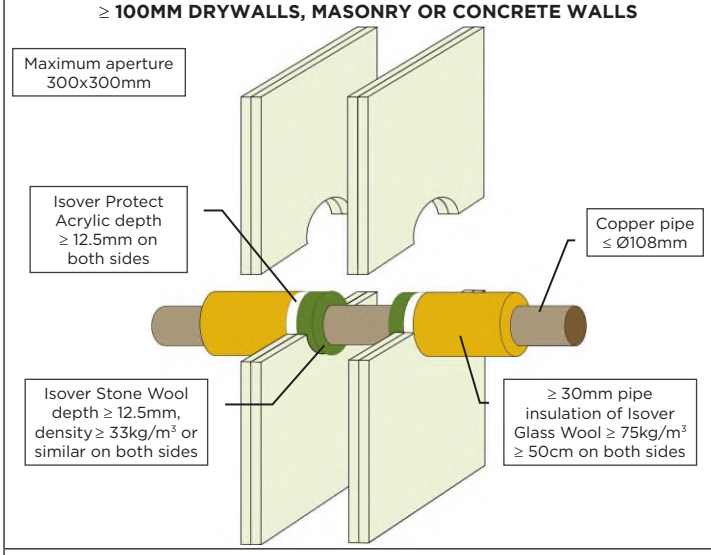

## COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



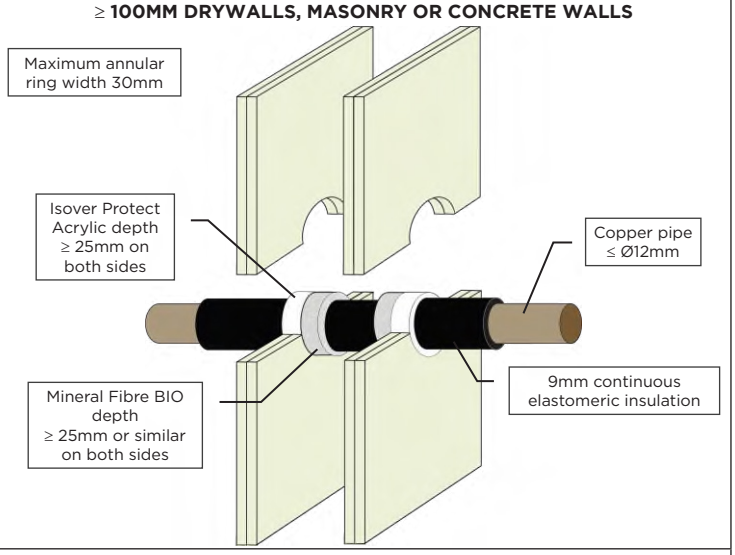
## COPPER PIPE FIRE RESISTANCE EI 30 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



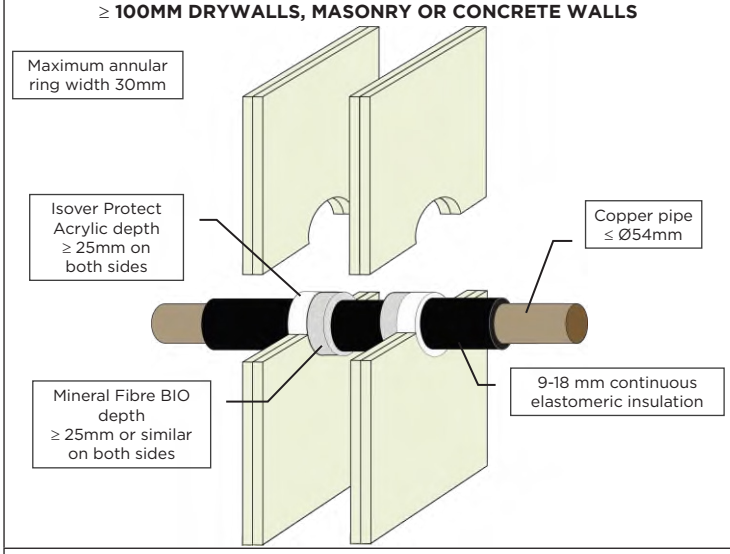

## COPPER PIPE FIRE RESISTANCE EI 120 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



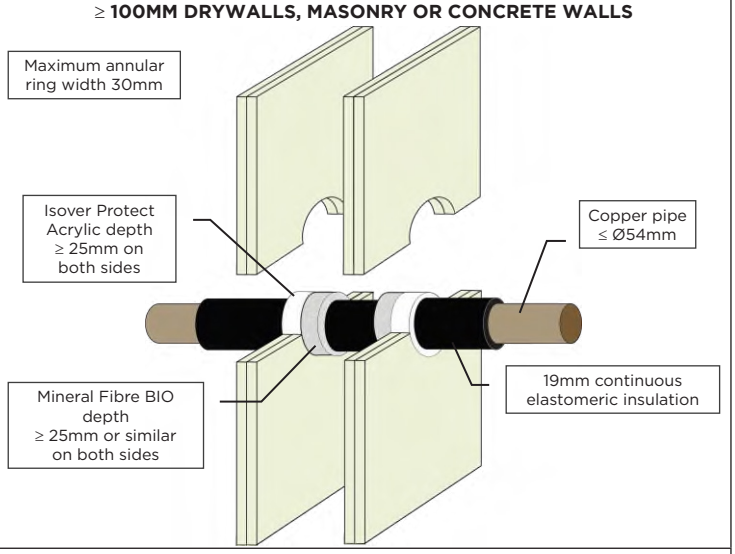

## COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



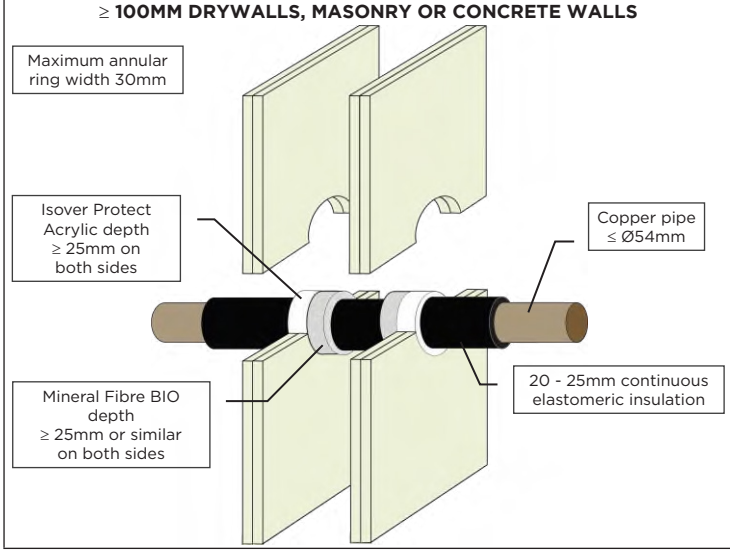

## COPPER PIPE FIRE RESISTANCE EI 90 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



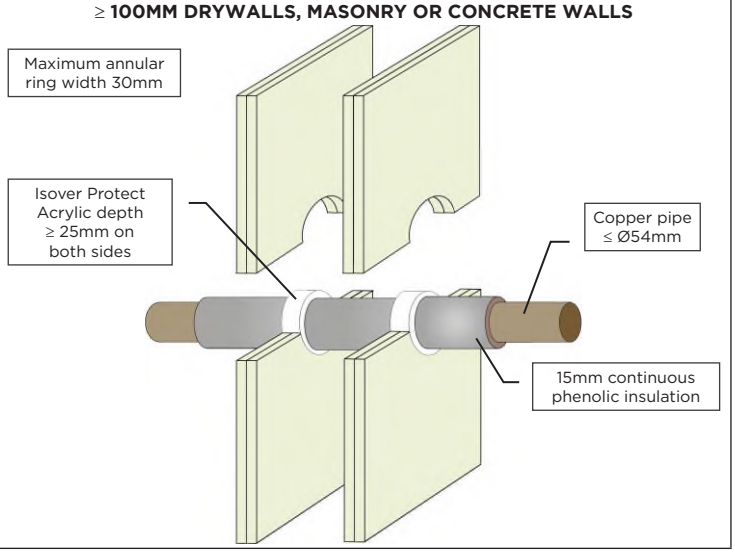

## COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



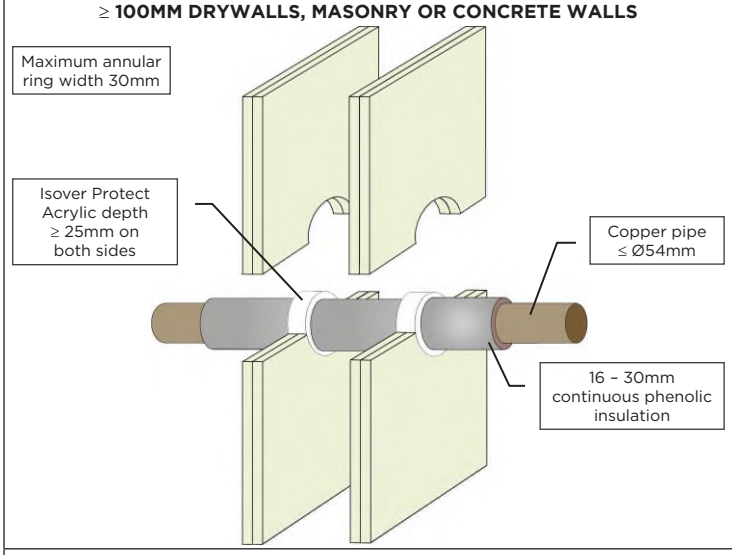

## COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



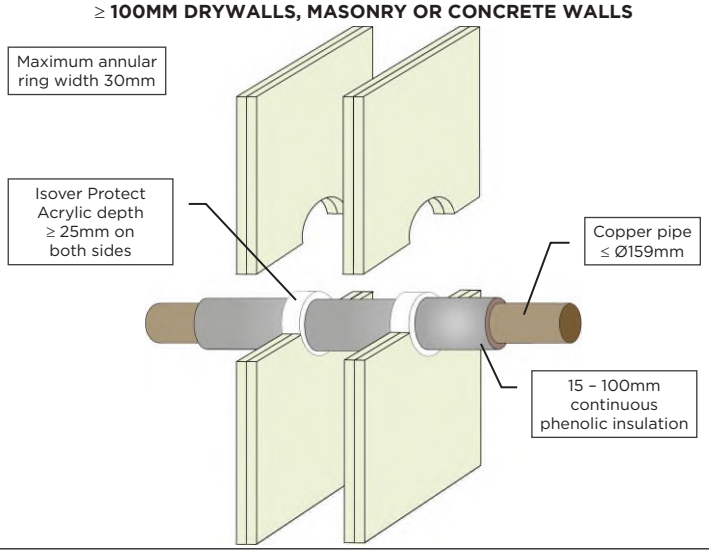
## COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 90)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



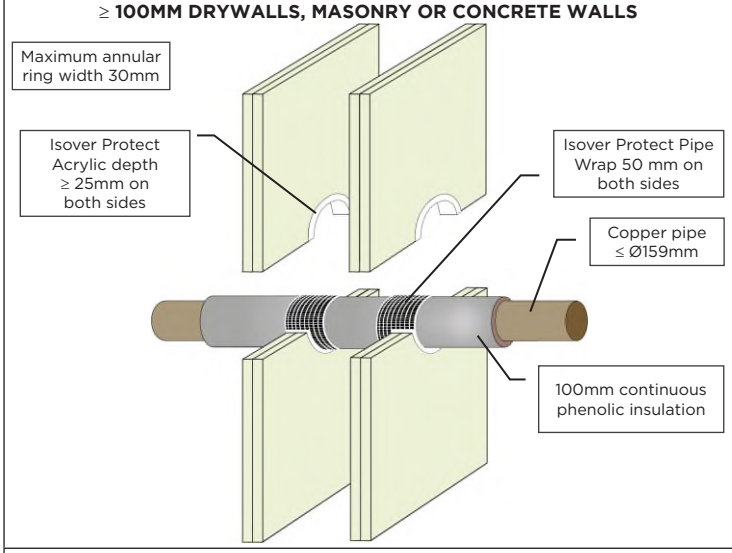

## COPPER PIPE FIRE RESISTANCE EI 30 C/C (E 45)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



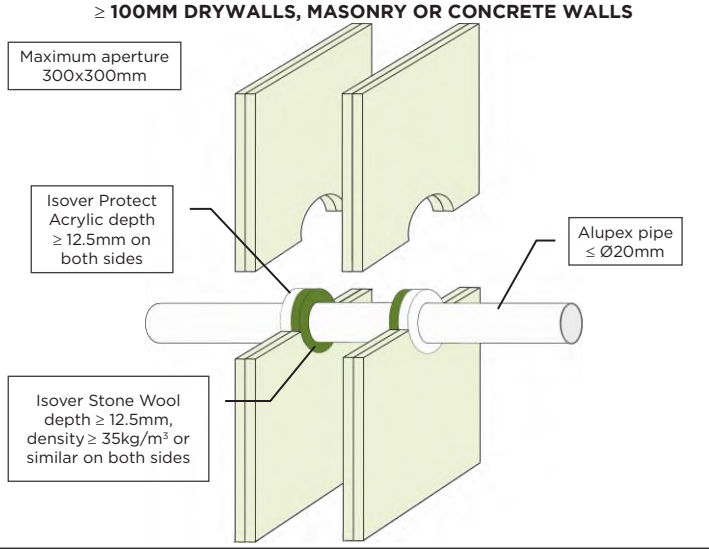

## COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



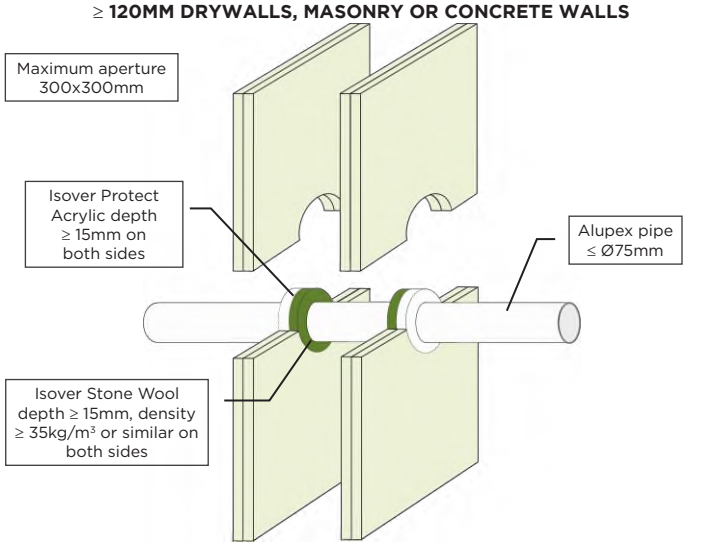

## ALUPEX PIPE FIRE RESISTANCE EI 120 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



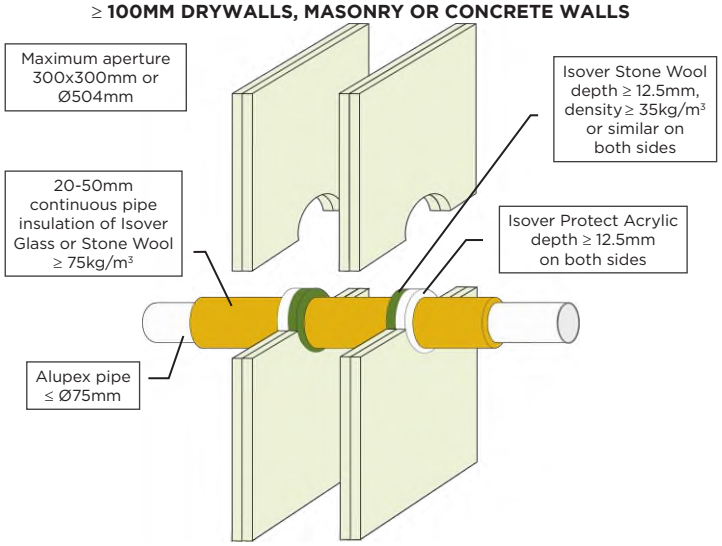

## ALUPEX PIPE FIRE RESISTANCE EI 30 C/C (E 120)

**≥ 120MM DRYWALLS, MASONRY OR CONCRETE WALLS**



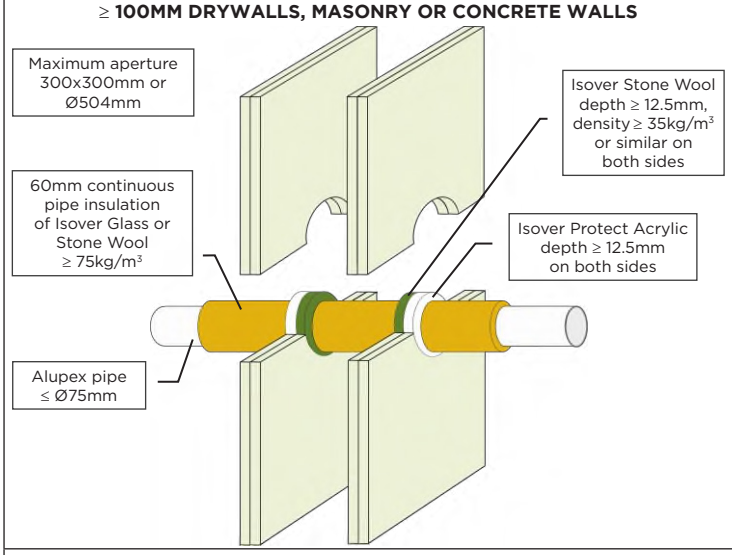

## INSULATED ALUPEX PIPE FIRE RESISTANCE EI 120 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



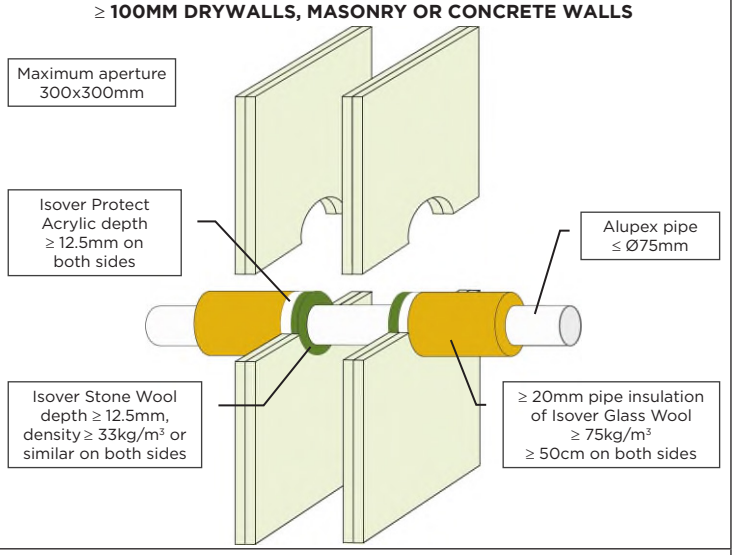
## INSULATED ALUPEX PIPE FIRE RESISTANCE EI 60 C/C (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



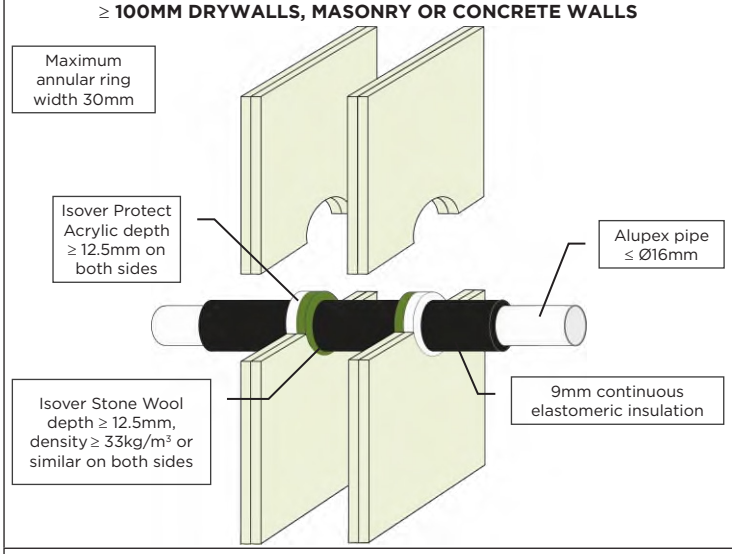

## ALUPEX PIPE FIRE RESISTANCE EI 120 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



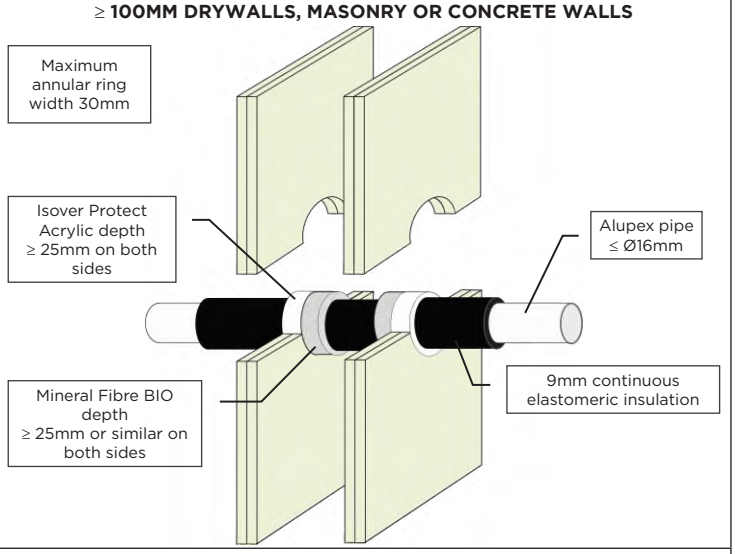

## ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



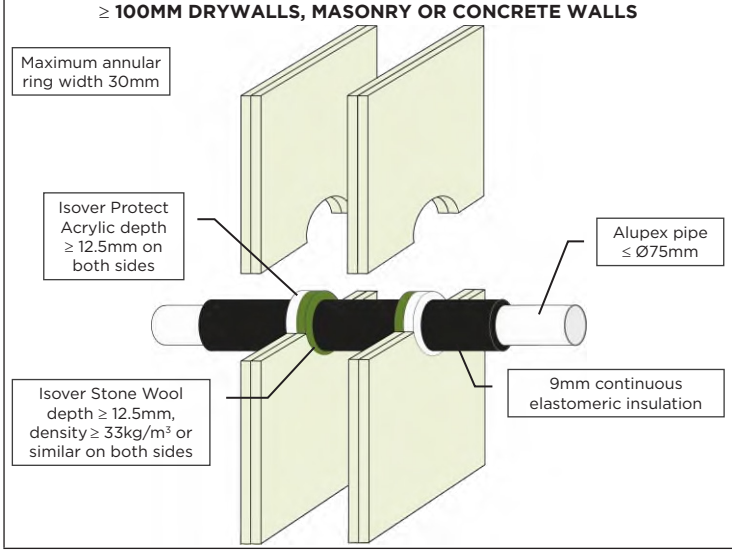

## ALUPEX PIPE FIRE RESISTANCE EI 120 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



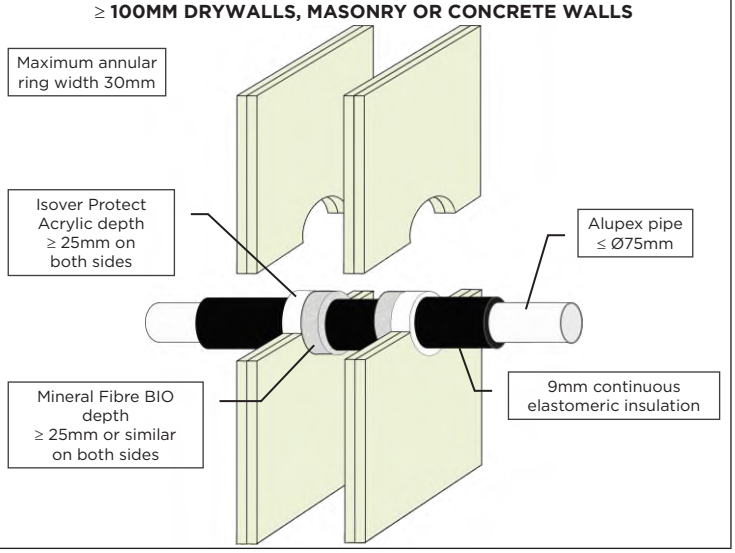

## ALUPEX PIPE FIRE RESISTANCE EI 45 C/C (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



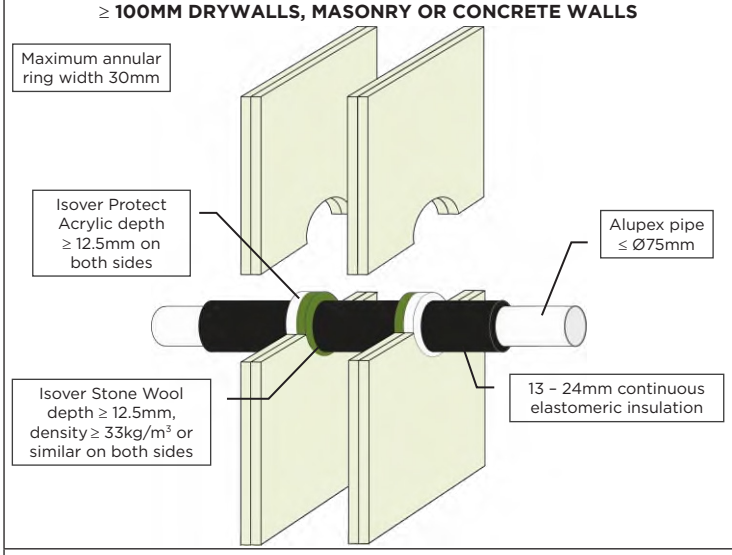

## ALUPEX PIPE FIRE RESISTANCE EI 60 C/C (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



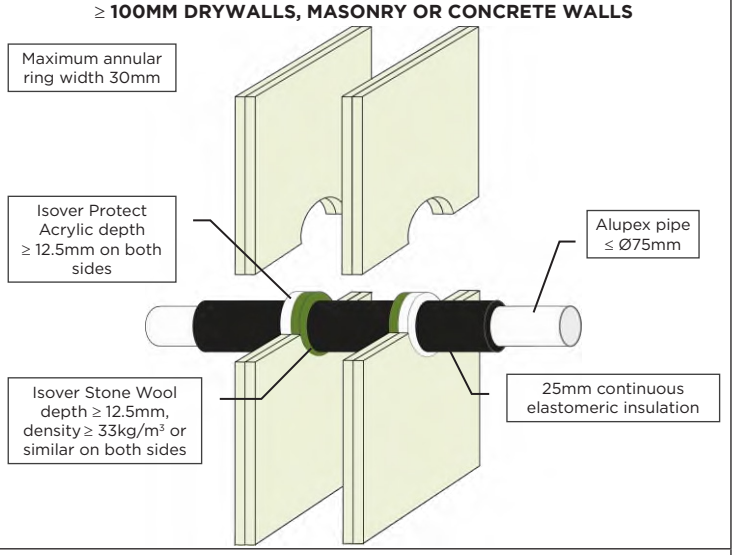
## ALUPEX PIPE FIRE RESISTANCE EI 60 C/C (E 90)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



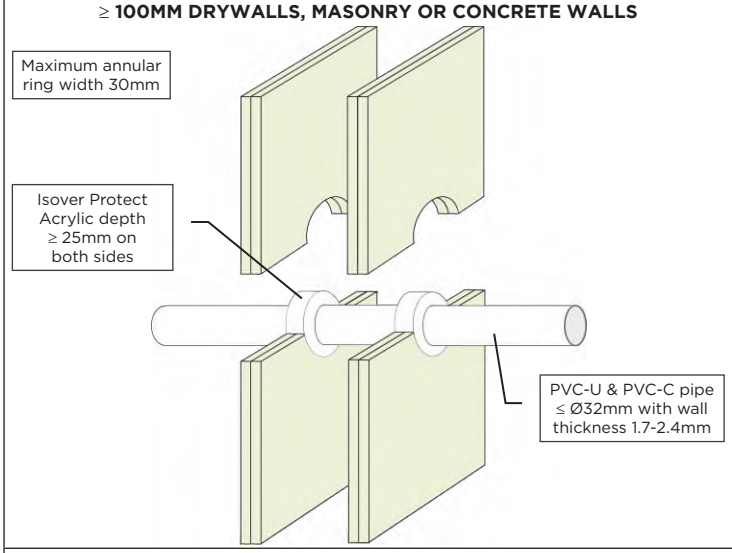

## ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 90)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



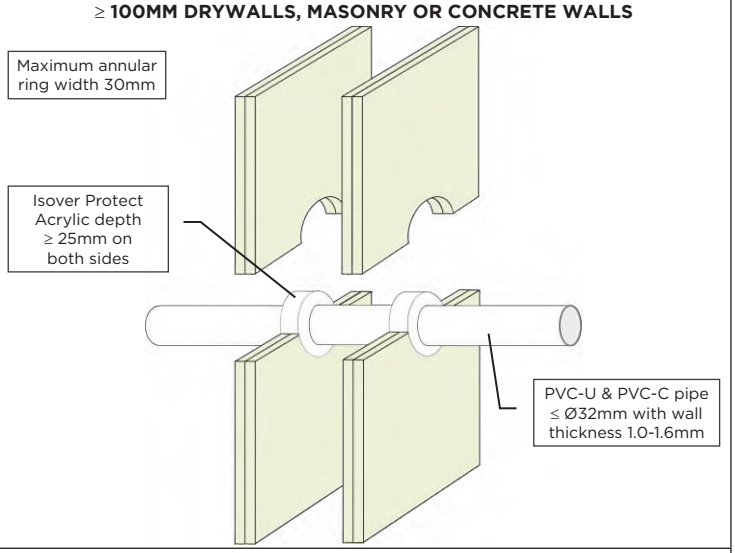

## PVC PLASTIC PIPE FIRE RESISTANCE EI 90 U/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



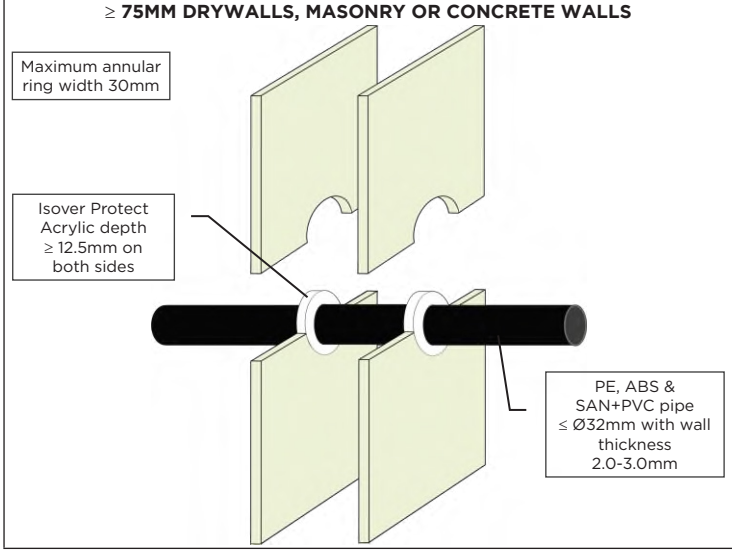

## PVC PLASTIC PIPE FIRE RESISTANCE EI 120 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



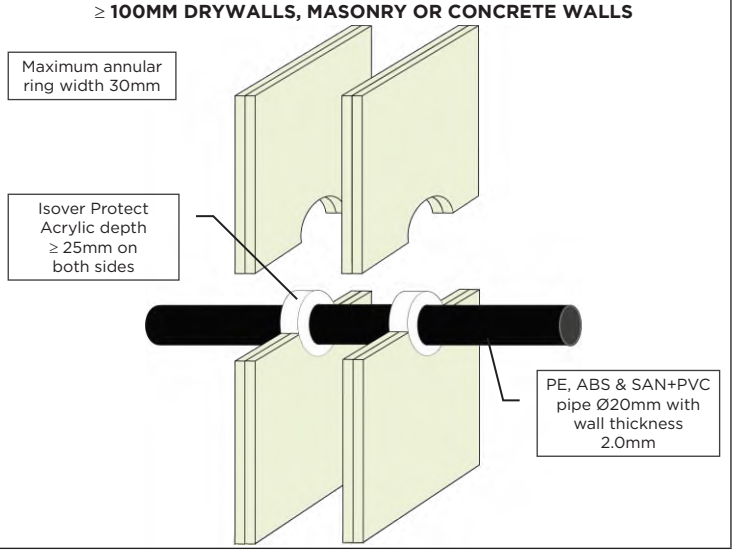

## PE PLASTIC PIPE FIRE RESISTANCE EI 30 U/C (E 30)

**≥ 75MM DRYWALLS, MASONRY OR CONCRETE WALLS**



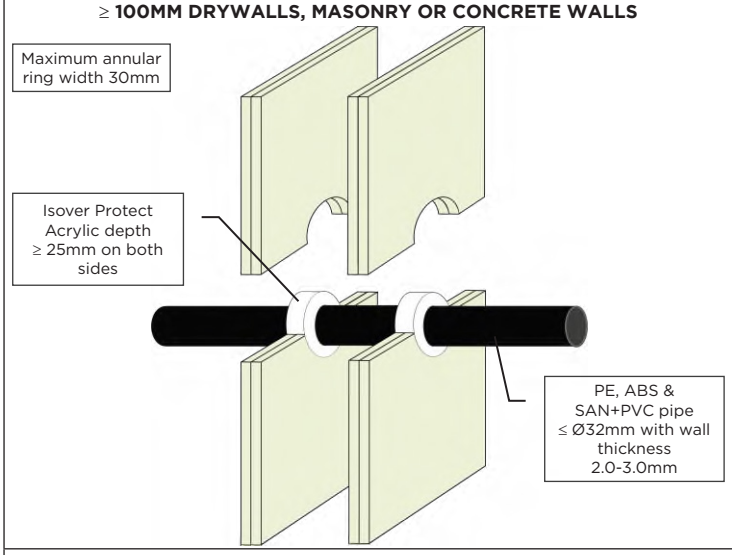

## PE PLASTIC PIPE FIRE RESISTANCE EI 120 U/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



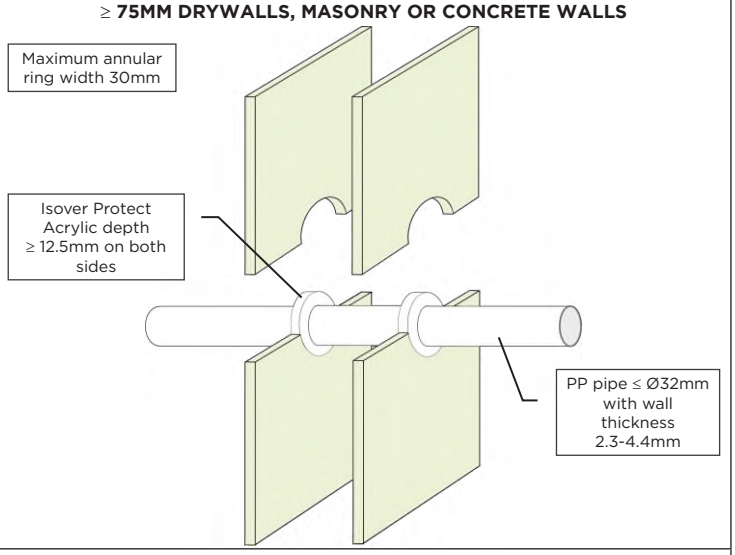
## PE PLASTIC PIPE FIRE RESISTANCE EI 90 C/C (E 90)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



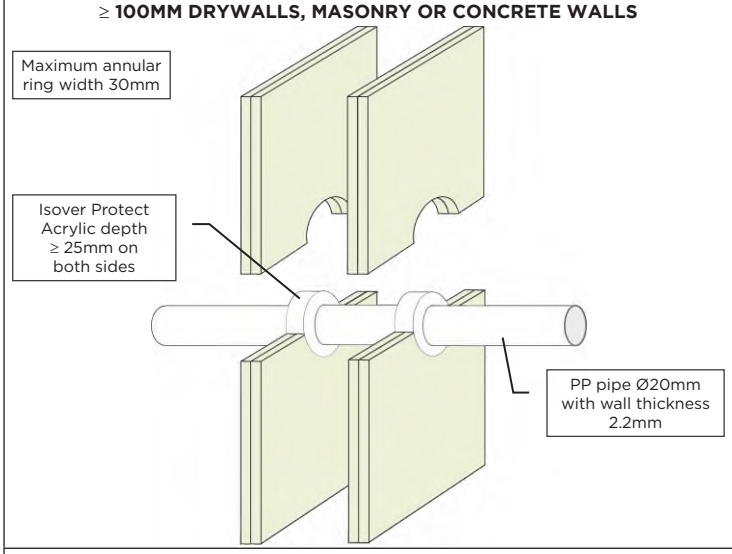

## PP PLASTIC PIPE FIRE RESISTANCE EI 30 U/C (E 30)

**≥ 75MM DRYWALLS, MASONRY OR CONCRETE WALLS**



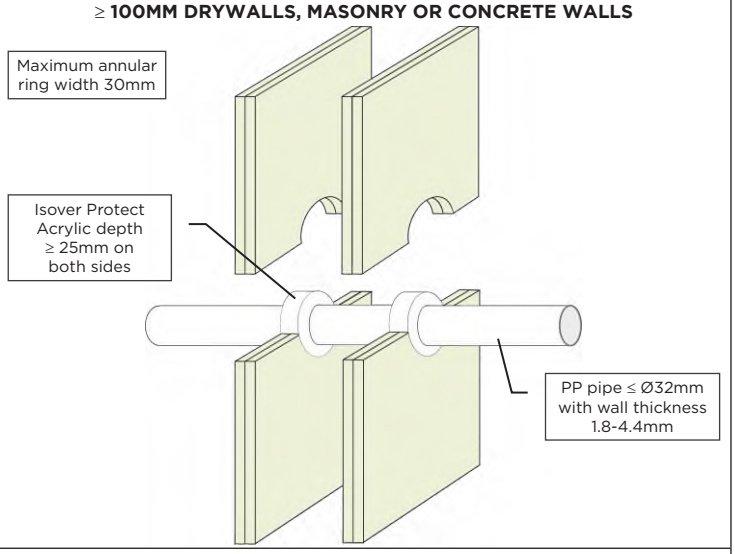

## PP PLASTIC PIPE FIRE RESISTANCE EI 120 U/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



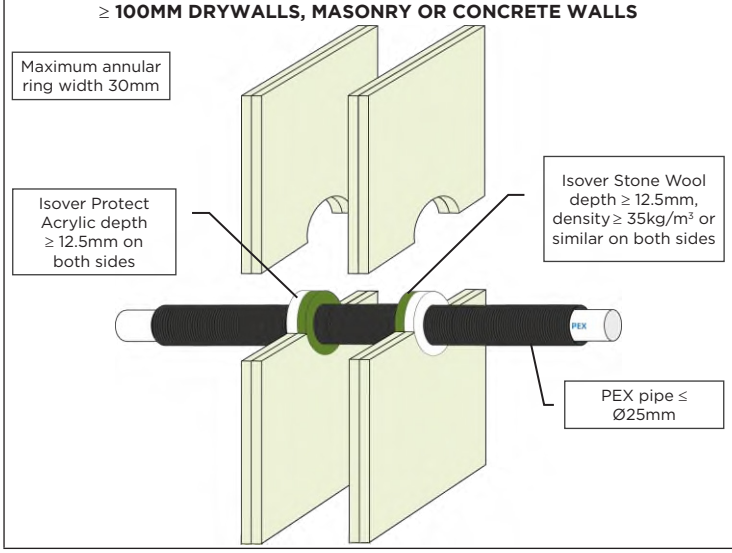

## PP PLASTIC PIPE FIRE RESISTANCE EI 60 C/C (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



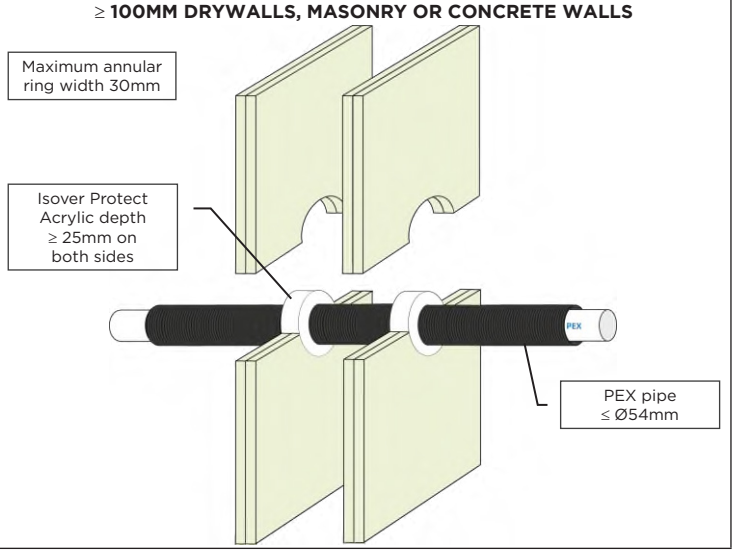

## PEX PIPE-IN-PIPE SYSTEM FIRE RESISTANCE EI 120 C/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



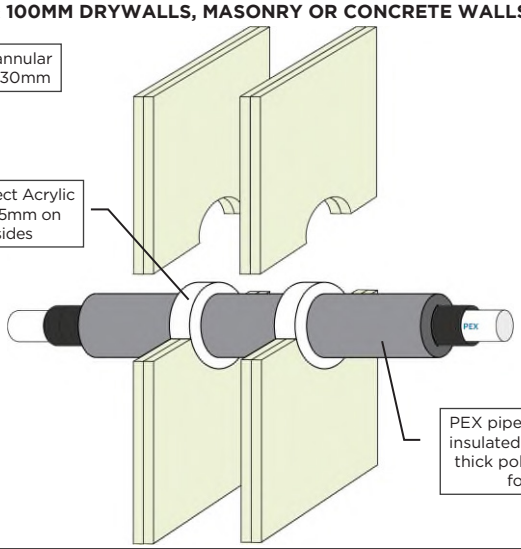

## PEX PIPE-IN-PIPE SYSTEM FIRE RESISTANCE EI 45 C/C (E 60)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



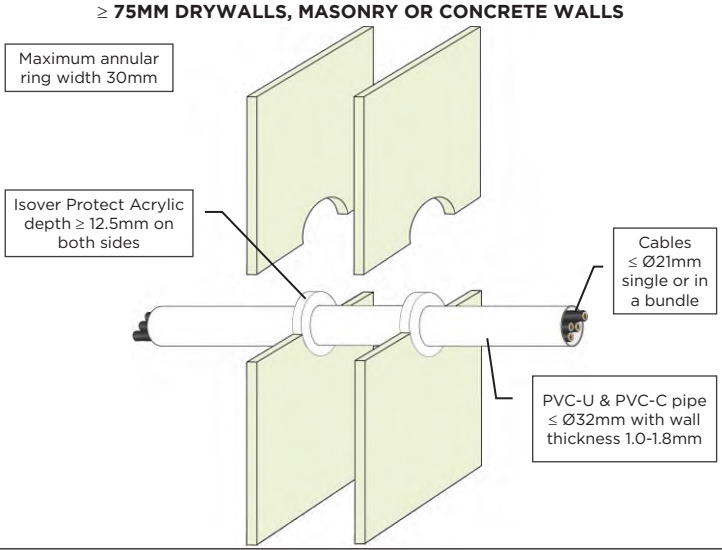
## PEX PIPE-IN-PIPE SYSTEM FIRE RESISTANCE EI 45 C/C (E 45)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



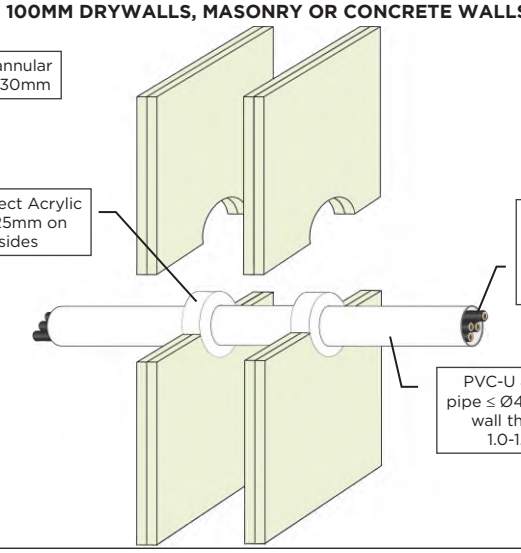

## PVC CONDUIT FIRE RESISTANCE EI 45 U/C (E 60)

**≥ 75MM DRYWALLS, MASONRY OR CONCRETE WALLS**



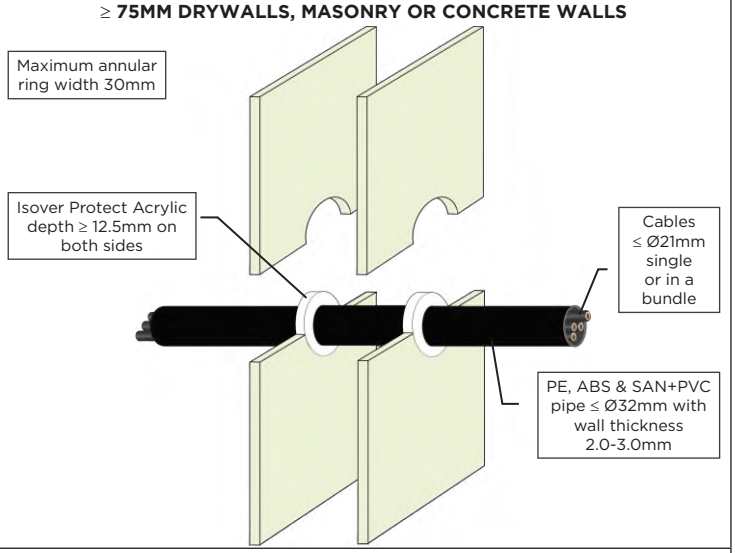

## PVC CONDUIT FIRE RESISTANCE EI 120 U/C (E 120)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



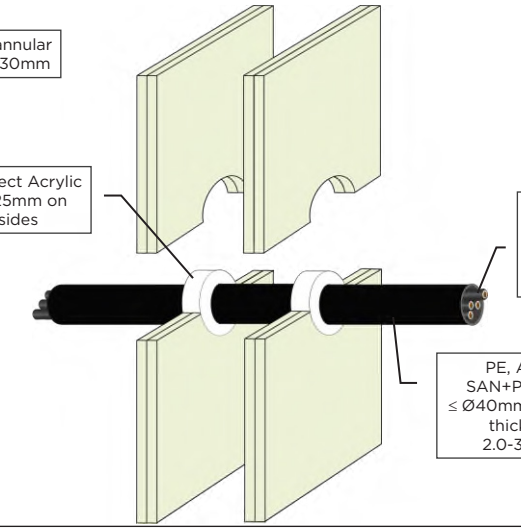

## PE CONDUIT FIRE RESISTANCE EI 30 U/C (E 45)

**≥ 75MM DRYWALLS, MASONRY OR CONCRETE WALLS**



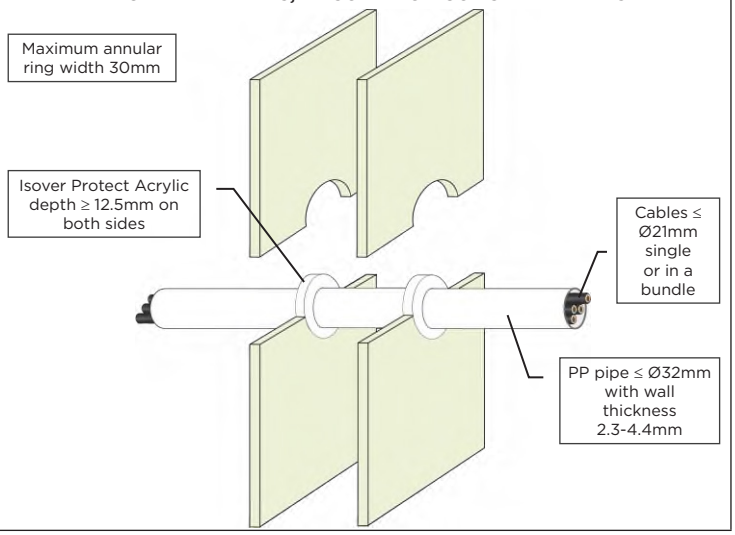

## PE CONDUIT FIRE RESISTANCE EI 90 U/C (E 90)

**≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS**



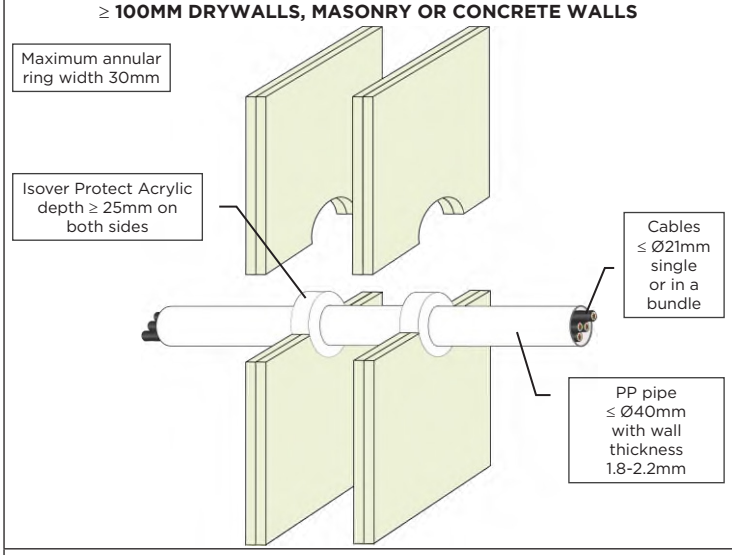

## PP CONDUIT FIRE RESISTANCE EI 30 U/C (E 45)

**≥ 75MM DRYWALLS, MASONRY OR CONCRETE WALLS**



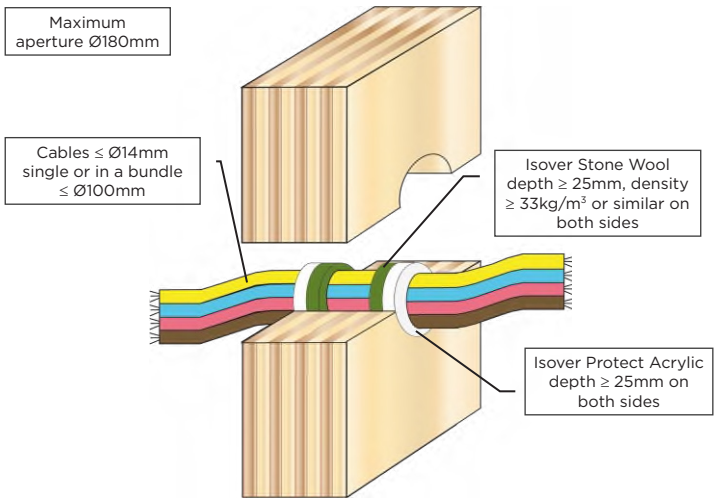
## PP CONDUIT FIRE RESISTANCE EI 90 U/C (E 90)

### ≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS



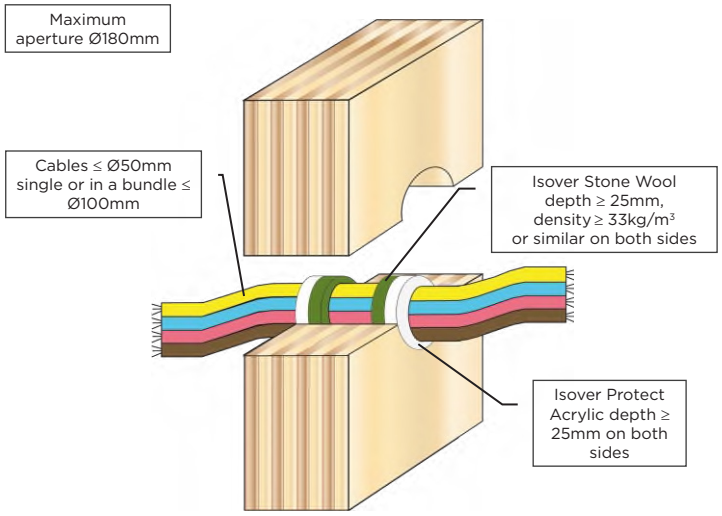

## CABLES FIRE RESISTANCE EI 90 (E 90)

### TIMBER WALLS



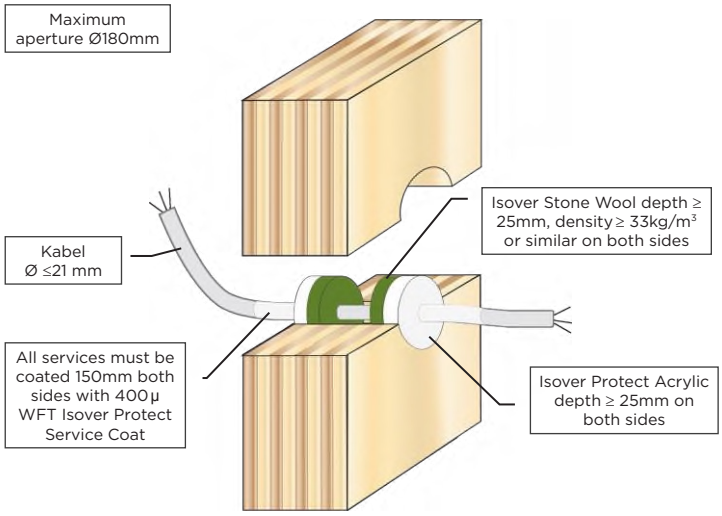

## CABLES FIRE RESISTANCE EI 30 (E 90)

### TIMBER WALLS



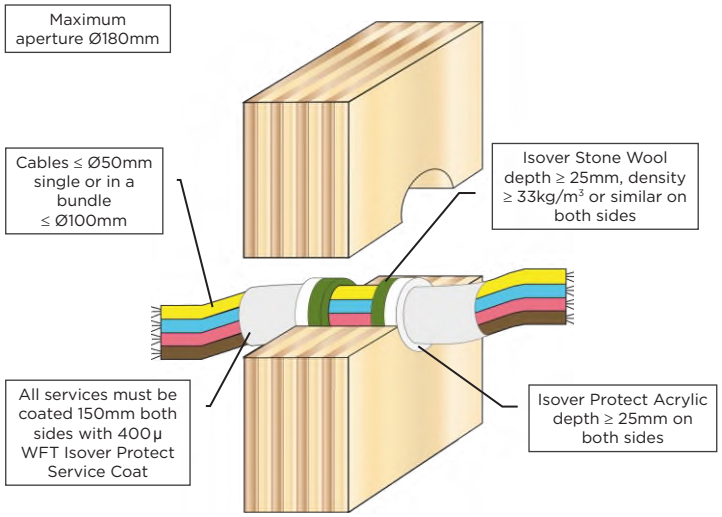

## CABLES FIRE RESISTANCE EI 90 (E 90)

### TIMBER WALLS



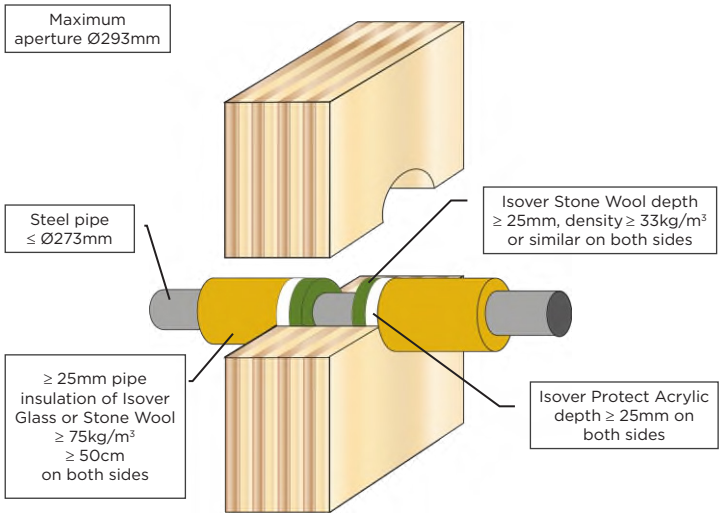

## CABLES FIRE RESISTANCE EI 60 (E 90)

### TIMBER WALLS



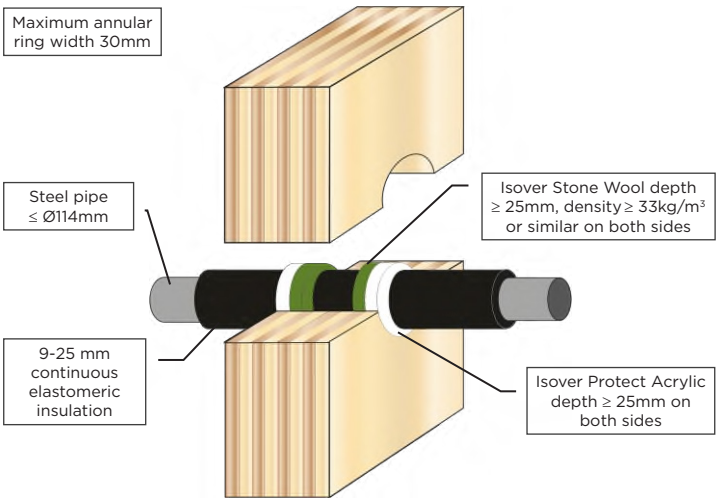

## STEEL PIPE FIRE RESISTANCE EI 60 C/C (E 90)

### TIMBER WALLS



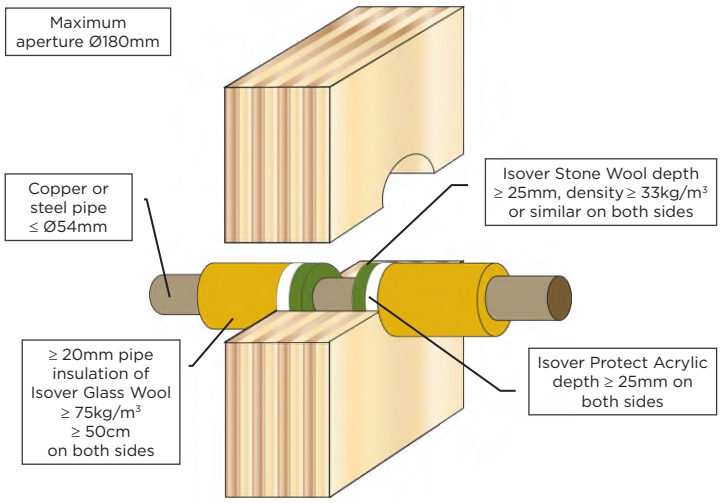
## STEEL PIPE FIRE RESISTANCE EI 30 C/U (E 30)

**TIMBER WALLS**



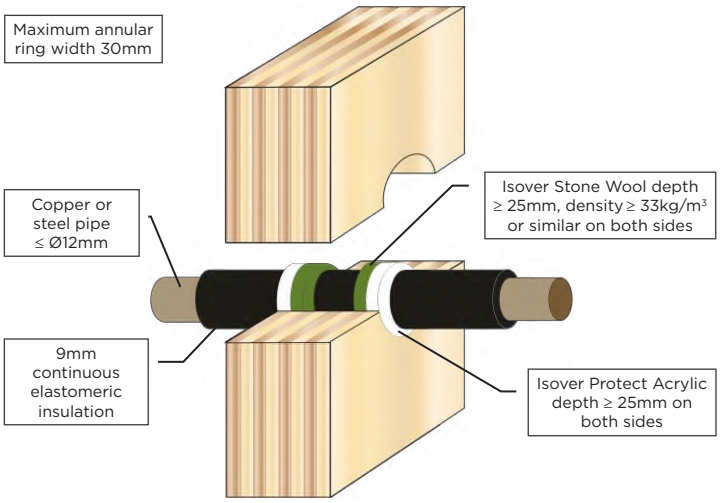

## COPPER OR STEEL PIPE FIRE RESISTANCE EI 60 C/C (E 90)

**TIMBER WALLS**



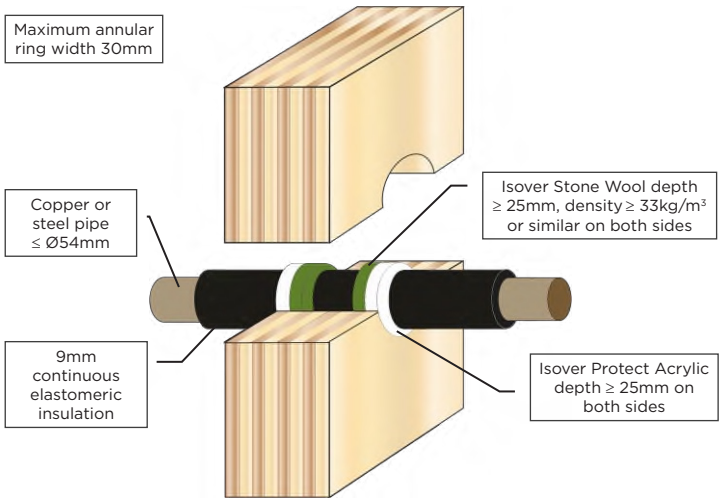

## COPPER OR STEEL PIPE FIRE RESISTANCE EI 60 C/C (E 90)

**TIMBER WALLS**



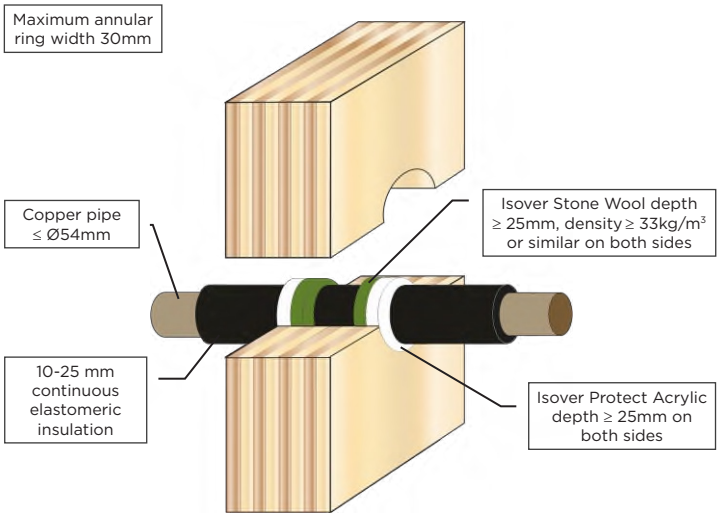

## COPPER OR STEEL PIPE FIRE RESISTANCE EI 30 C/C (E 60)

**TIMBER WALLS**



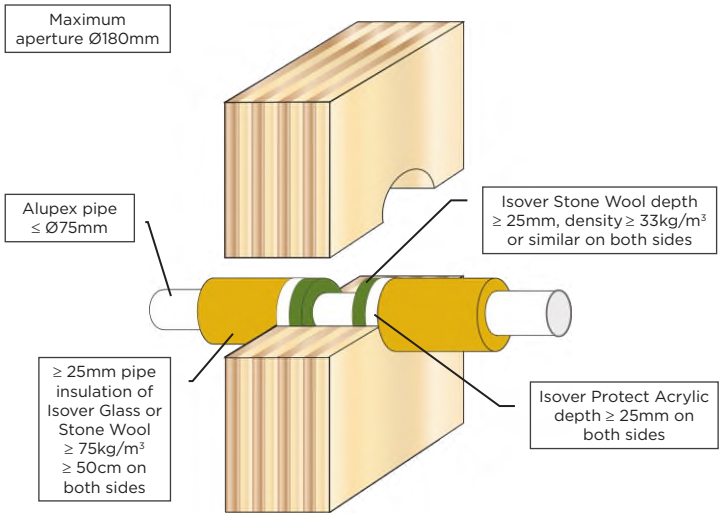

## COPPER PIPE FIRE RESISTANCE EI 20 C/C (E 30)

**TIMBER WALLS**



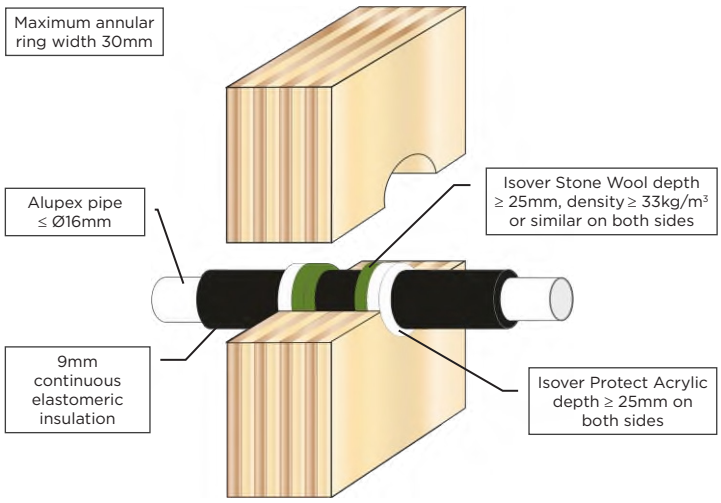

## ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 90)

**TIMBER WALLS**



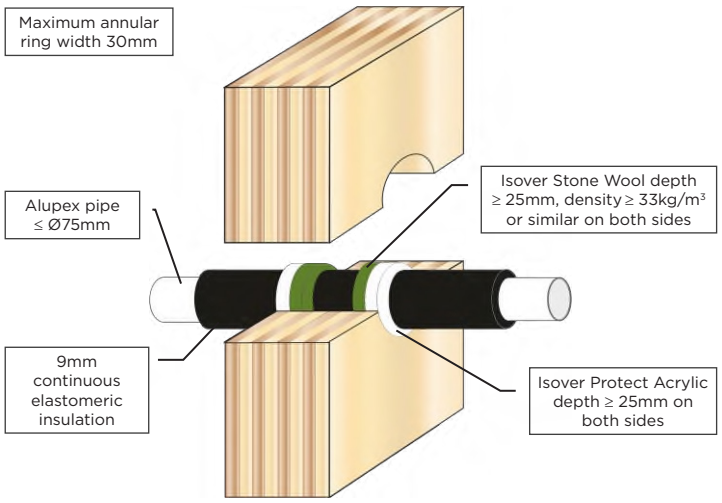
## ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 90)

**TIMBER WALLS**



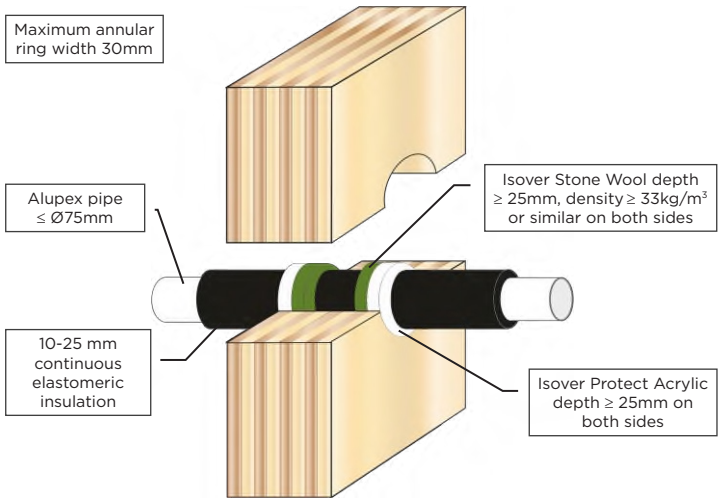

## ALUPEX PIPE FIRE RESISTANCE EI 45 C/C (E 60)

**TIMBER WALLS**



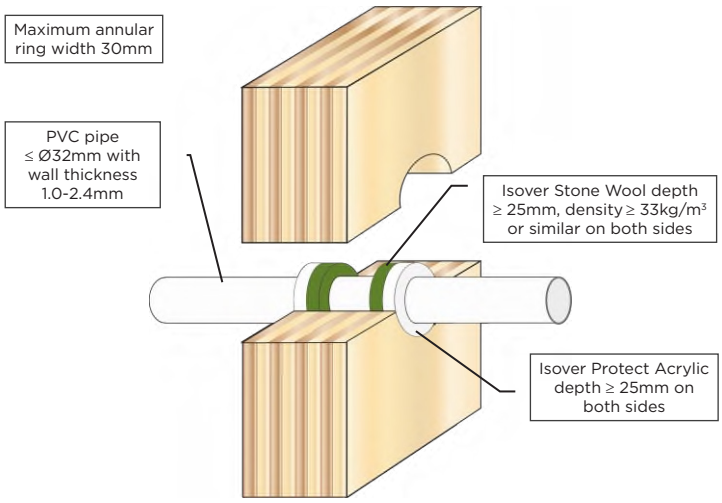

## ALUPEX PIPE FIRE RESISTANCE EI 45 C/C (E 45)

**TIMBER WALLS**



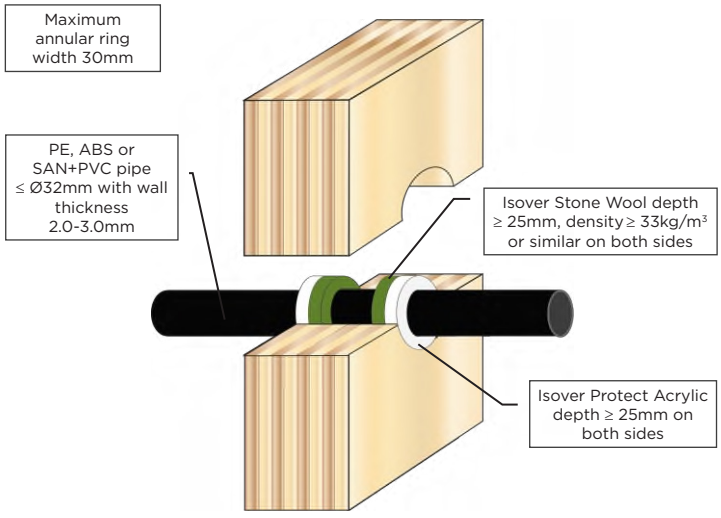

## PVC PIPE FIRE RESISTANCE EI 90 U/C (E 90)

**TIMBER WALLS**



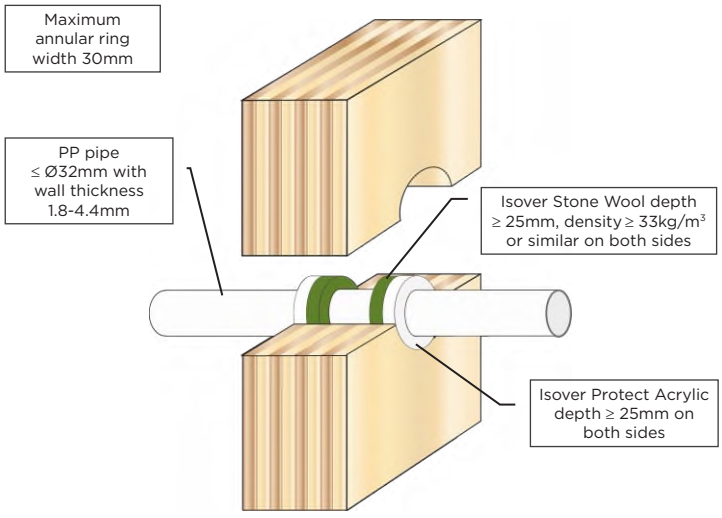

## PE PIPE FIRE RESISTANCE EI 90 U/C (E 90)

**TIMBER WALLS**



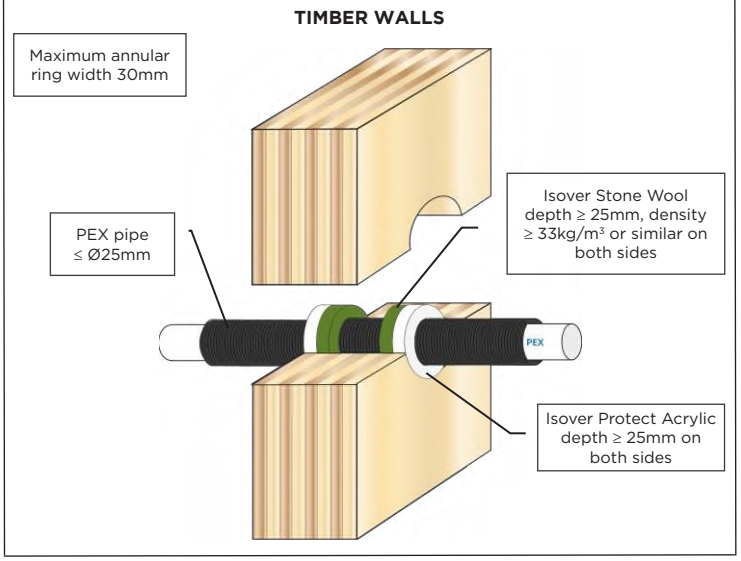

## PP PIPE FIRE RESISTANCE EI 90 U/C (E 90)

**TIMBER WALLS**



**PEX PIPE-IN-PIPE SYSTEM FIRE RESISTANCE EI 90 C/C (E 90)**

**TIMBER WALLS**



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