

PROTECTA® FR PUTTY CORD

INSTALLATION INSTRUCTIONS



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

GENERAL PRODUCT DESCRIPTION

Protecta® FR Putty Cord is an easy to apply fire rated putty supplied as a non-setting cord. The cord is hand workable, re-useable and re-serviceable due to its non-setting properties.

The putty cord is designed to be easily fitted around service penetrations where the gap around the services is very small, or there is no gaps at all so a conventional fire rated sealant is impossible or difficult to fit due to the required depth and backing material. The putty cords are fitted covering the gap around the services and do not need to fill the gap to the required depth. Fitting the putty cords will reinstate the fire rating of the partition and prevent the passage of smoke and flames in a fire, and sound and air movement during service life.

Protecta® FR Putty Cords are supplied in strips with a round cross-section and are easy to fit with your thumbs; no tools are needed.

GENERAL GUIDE

Minimum separations and limitations: Services can be sealed as specified in the detailed drawings. The product may be used to seal gaps between 0mm and 10mm surrounding services. Minimum separation between apertures should be at least 30mm. For larger joint dimensions or apertures other than described in the detailed drawings, Protecta® FR Acrylic, FR Board or EX Mortar should be used. In areas with a high degree of humidity and/or in joints with excessive movement, Protecta® FR IPT or FR Board should be used.

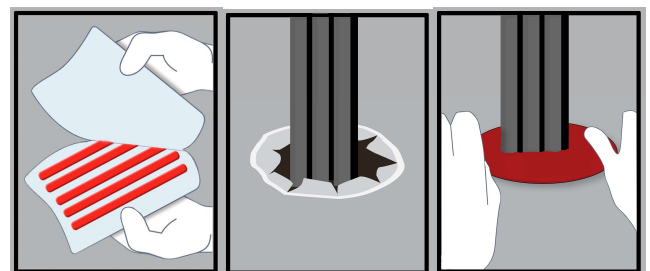
Supporting constructions: Flexible walls must have a minimum thickness of 100mm and comprise steel studs or timber studs*) lined on both faces with minimum 2 layers of 12.5mm thick boards. Rigid walls must have a minimum thickness of 100mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650kg/m³. Rigid floors must have a minimum thickness of 150mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³. The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

*) 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.



INSTALLATION

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. To aid adhesion to porous substrates take a thumb size piece of the putty cord and gently rub over the required installation mounting area (especially important in soffit applications).
3. Where Protecta® FR Putty Cord is to be installed against surfaces that cannot tolerate direct contact; appropriate surface preparation should be made (contact Polyseam for guidance in these cases). For paints sensitive to sealing compounds, priming with a PVA primer is recommended.
4. As Protecta® FR Putty Cord is silicone based, in cases where corrosion protection is a problem; some metals may require a barrier between the putty and the metal surface prior to this installation.
5. When installing Protecta® FR Putty Cord in hollow floor slabs or boards, fire seals should be installed from the soffit side of the floor assuming this product certification covers the application. Where this is not the case and only top-sided applications are approved, simply fire seal on both sides.
6. Place the Putty Cord around the services so that it seals the services to the wall or floor all the way round.
7. Press the Putty Cord into the wall or floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall or floor.



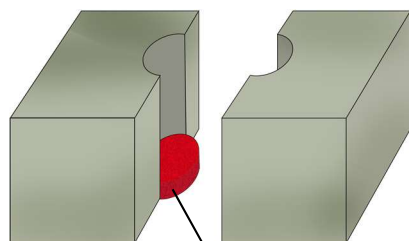
TEST STANDARDS

This Installation Instructions and the Technical Data Sheet are based on the product's European Technical Assessment issued in accordance with regulation (EU) No 305/2011 on the basis of EAD 350454-00-1104, September 2017, tested to EN 1366-3 & -12 in conjunction with EN 1363-1. The product hold the following approval marks; CE-mark for Europe, UL-EU Certificate Internationally, UAE Certificate of Compliance & AS assessment for Australia and New Zealand.

BLANK SEAL FIRE RESISTANCE EI 30 (E 120)

RIGID FLOORS

Maximum aperture
Ø15mm

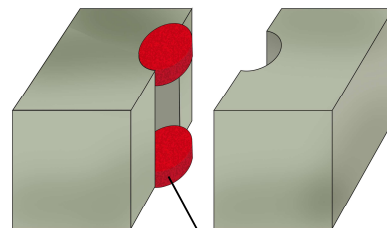


≥ 15mm deep FR Putty Cord
applied flush on soffit side

BLANK SEAL FIRE RESISTANCE EI 120 (E 120)

RIGID FLOORS

Maximum aperture
Ø14mm



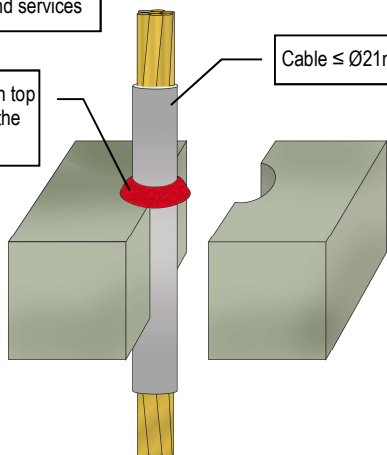
≥ 15mm deep FR Putty Cord
applied flush on both sides

CABLE FIRE RESISTANCE EI 120 (E 120)

RIGID FLOORS

Apertures with less than 10mm
annular width around services

FR Putty Cord on top
side oversailing the
aperture



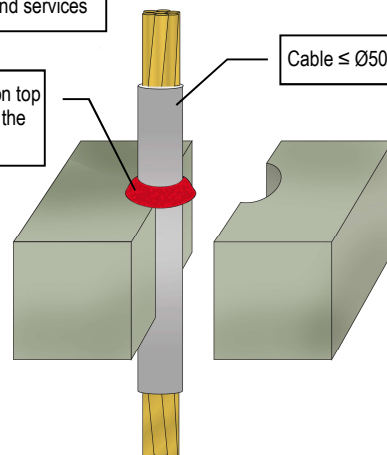
Cable ≤ Ø21mm

CABLE FIRE RESISTANCE EI 90 (E 120)

RIGID FLOORS

Apertures with less than 10mm
annular width around services

FR Putty Cord on top
side oversailing the
aperture



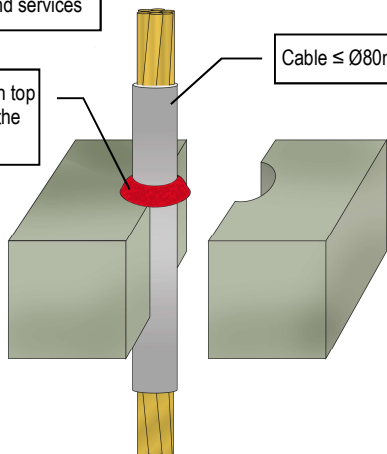
Cable ≤ Ø50mm

CABLE FIRE RESISTANCE EI 60 (E 120)

RIGID FLOORS

Apertures with less than 10mm
annular width around services

FR Putty Cord on top
side oversailing the
aperture



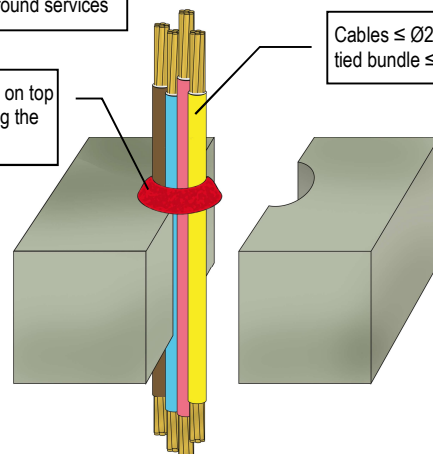
Cable ≤ Ø80mm

CABLES FIRE RESISTANCE EI 60 (E 120)

RIGID FLOORS

Apertures with less than 10mm
annular width around services

FR Putty Cord on top
side oversailing the
aperture

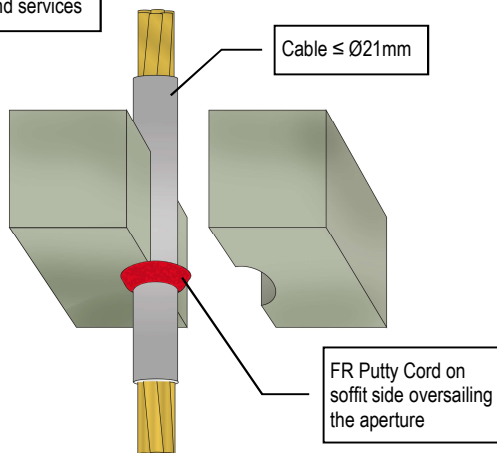


Cables ≤ Ø21mm in
tied bundle ≤ Ø50mm

CABLE FIRE RESISTANCE EI 60 (E 120)

RIGID FLOORS

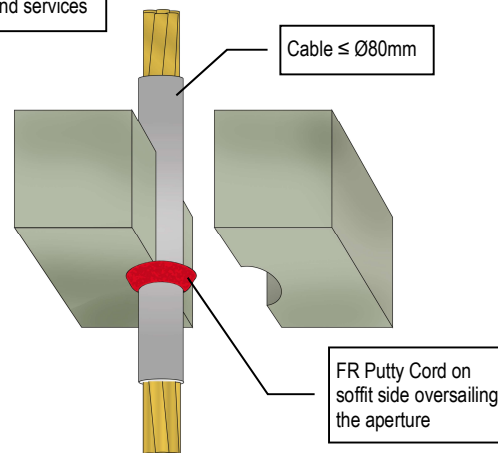
Apertures with less than 10mm annular width around services



CABLE FIRE RESISTANCE EI 45 (E 90)

RIGID FLOORS

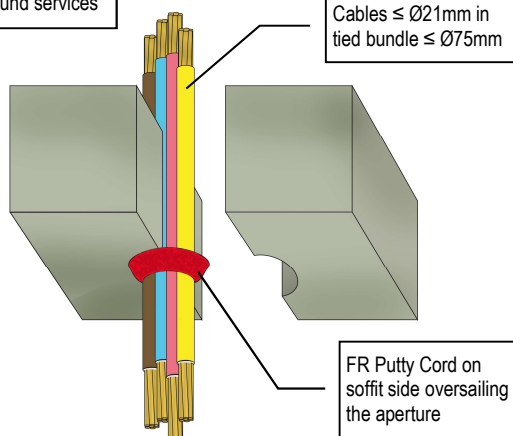
Apertures with less than 10mm annular width around services



CABLES FIRE RESISTANCE EI 45 (E 60)

RIGID FLOORS

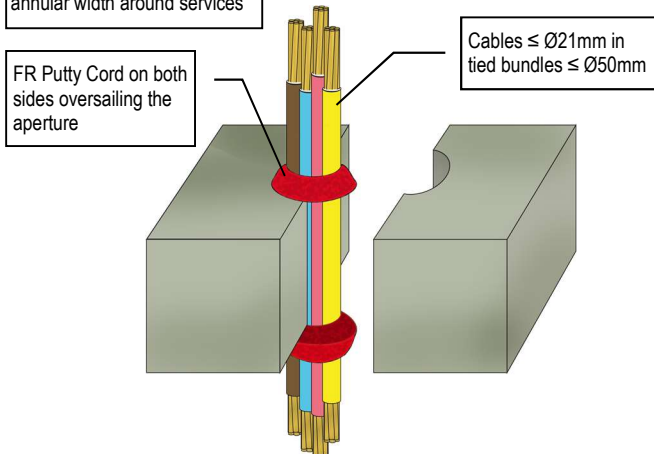
Apertures with less than 10mm annular width around services



CABLES FIRE RESISTANCE EI 240 (E 240)

RIGID FLOORS

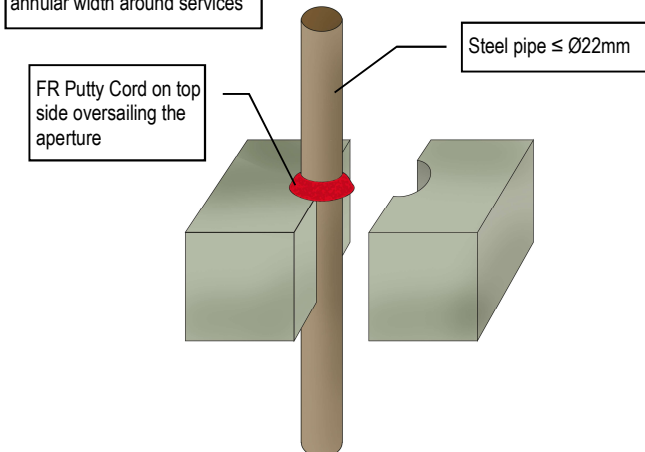
Apertures with less than 10mm annular width around services



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

RIGID FLOORS

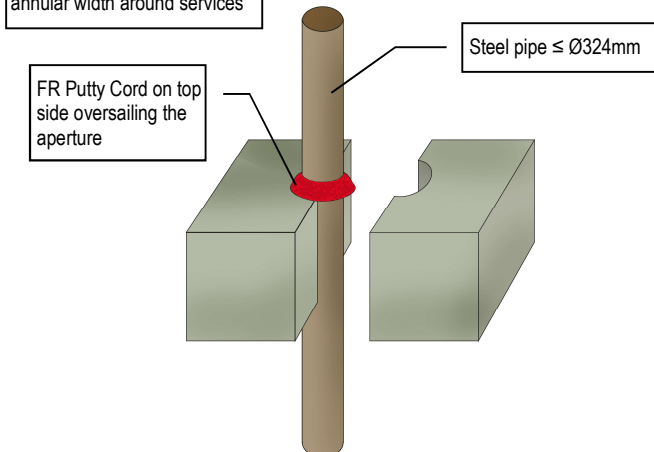
Apertures with less than 10mm annular width around services



STEEL PIPE FIRE RESISTANCE EI 15 C/U (E 240 C/U)

RIGID FLOORS

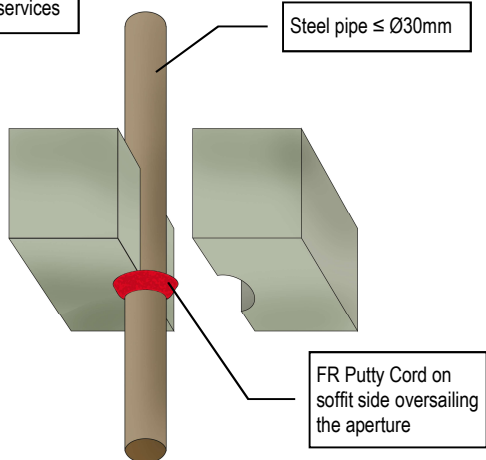
Apertures with less than 10mm annular width around services



STEEL PIPE FIRE RESISTANCE EI 45 C/U (E 120 C/U)

RIGID FLOORS

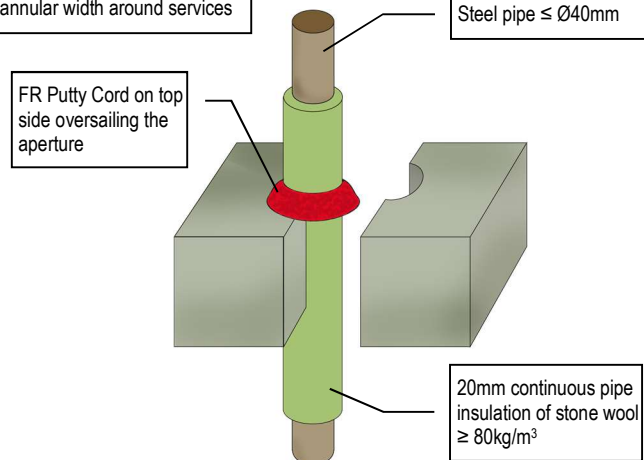
Apertures with less than 10mm annular width around services



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

RIGID FLOORS

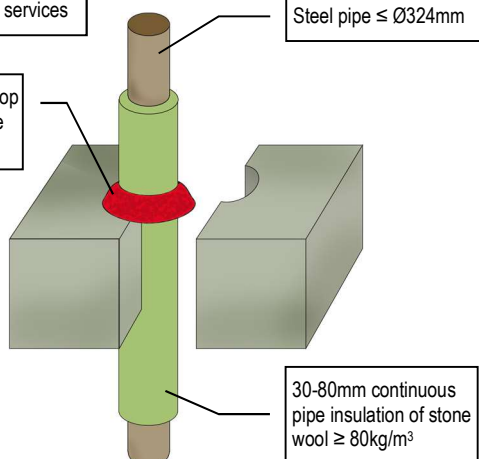
Apertures with less than 10mm annular width around services



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

RIGID FLOORS

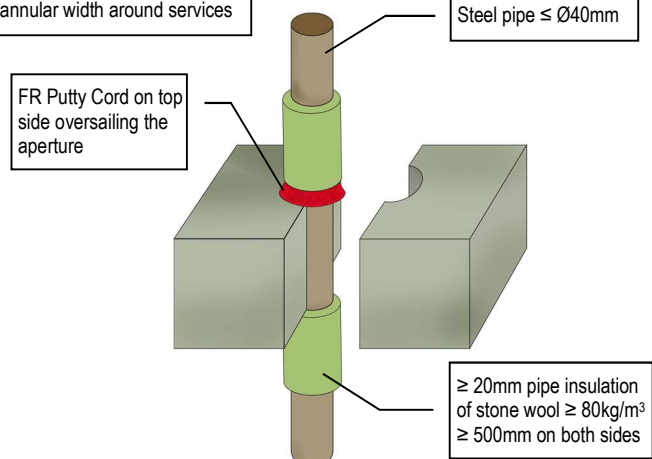
Apertures with less than 10mm annular width around services



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

RIGID FLOORS

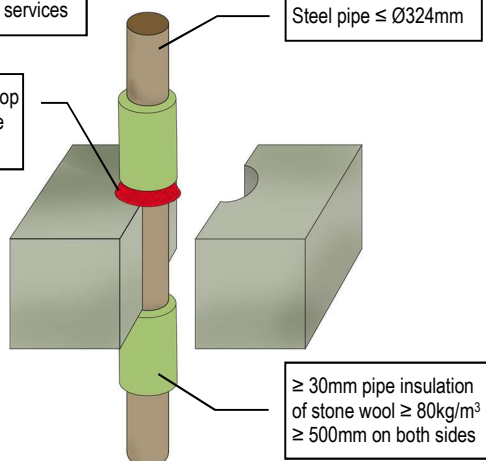
Apertures with less than 10mm annular width around services



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

RIGID FLOORS

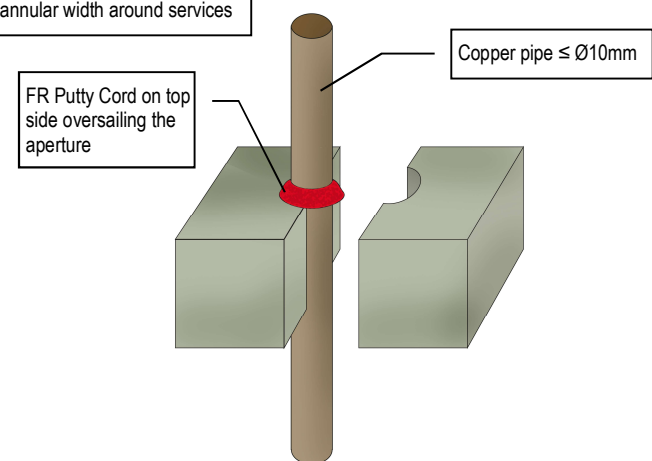
Apertures with less than 10mm annular width around services



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

RIGID FLOORS

Apertures with less than 10mm annular width around services



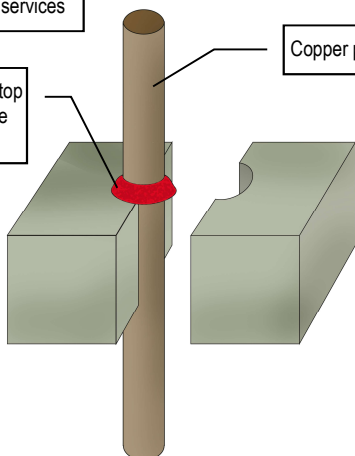
COPPER PIPE FIRE RESISTANCE E 120 C/C

RIGID FLOORS

Apertures with less than 10mm annular width around services

FR Putty Cord on top side oversailing the aperture

Copper pipe $\leq \varnothing 54\text{mm}$



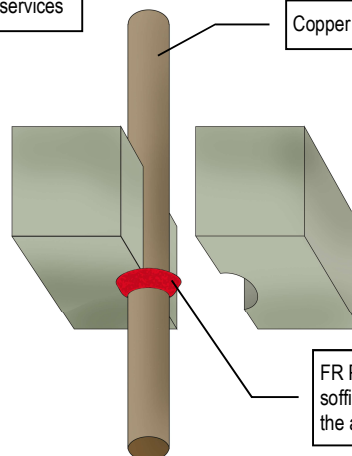
COPPER PIPE FIRE RESISTANCE EI 30 C/C (E 120 C/C)

RIGID FLOORS

Apertures with less than 10mm annular width around services

Copper pipe $\leq \varnothing 12\text{mm}$

FR Putty Cord on soffit side oversailing the aperture



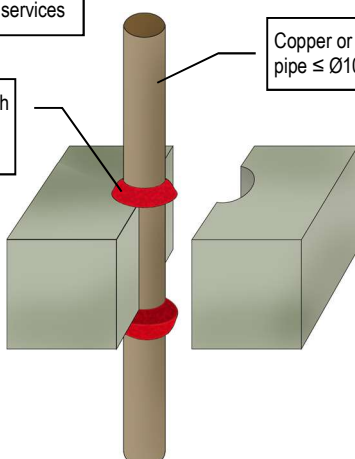
COPPER OR STEEL PIPE FIRE RESISTANCE EI 180 C/C (E 240 C/C)

RIGID FLOORS

Apertures with less than 10mm annular width around services

FR Putty Cord on both sides oversailing the aperture

Copper or steel pipe $\leq \varnothing 10\text{mm}$



COPPER OR STEEL PIPE FIRE RESISTANCE EI 90 C/C (E 240 C/C)

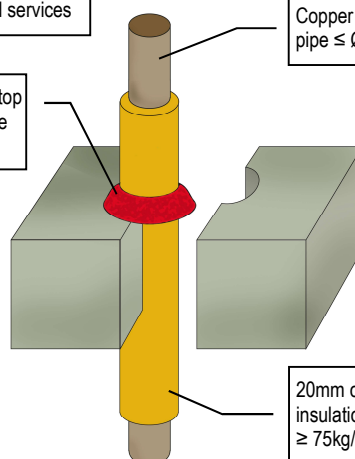
RIGID FLOORS

Apertures with less than 10mm annular width around services

Copper or steel pipe $\leq \varnothing 12\text{mm}$

FR Putty Cord on top side oversailing the aperture

20mm continuous pipe insulation of glass wool $\geq 75\text{kg/m}^3$



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

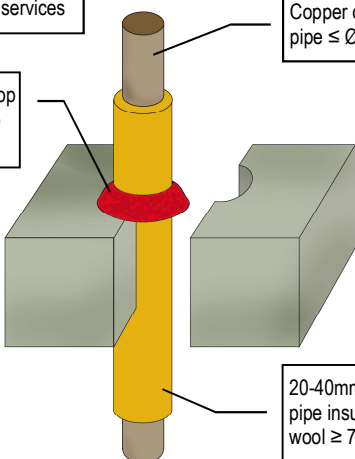
RIGID FLOORS

Apertures with less than 10mm annular width around services

FR Putty Cord on top side oversailing the aperture

Copper or steel pipe $\leq \varnothing 54\text{mm}$

20-40mm continuous pipe insulation of glass wool $\geq 75\text{kg/m}^3$



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

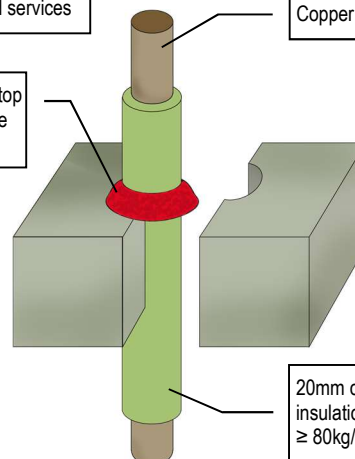
RIGID FLOORS

Apertures with less than 10mm annular width around services

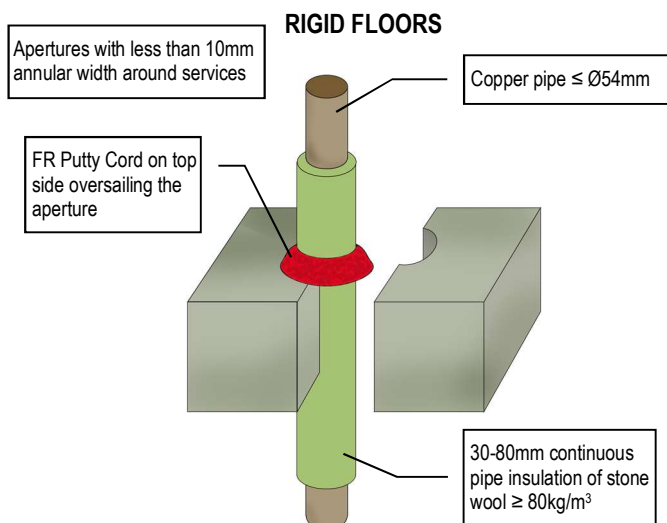
FR Putty Cord on top side oversailing the aperture

Copper pipe $\leq \varnothing 12\text{mm}$

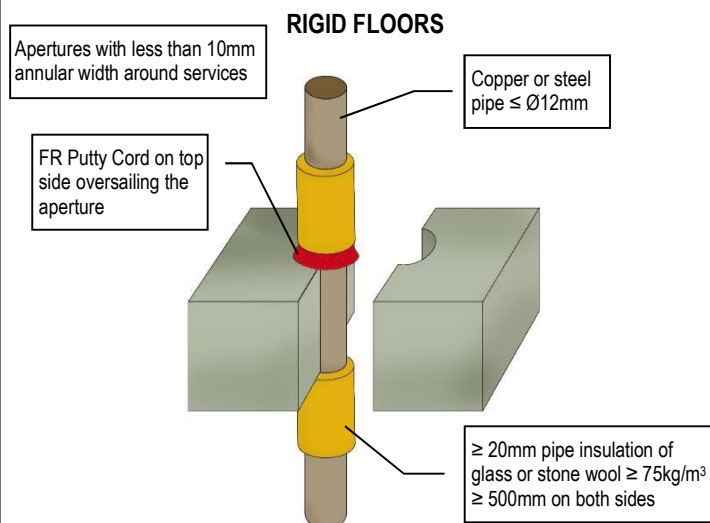
20mm continuous pipe insulation of stone wool $\geq 80\text{kg/m}^3$



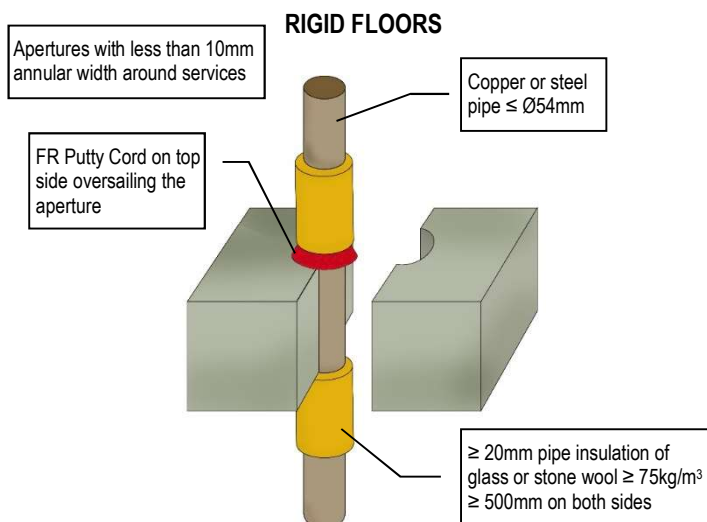
COPPER PIPE FIRE RESISTANCE EI 240 C/C (E 240 C/C)



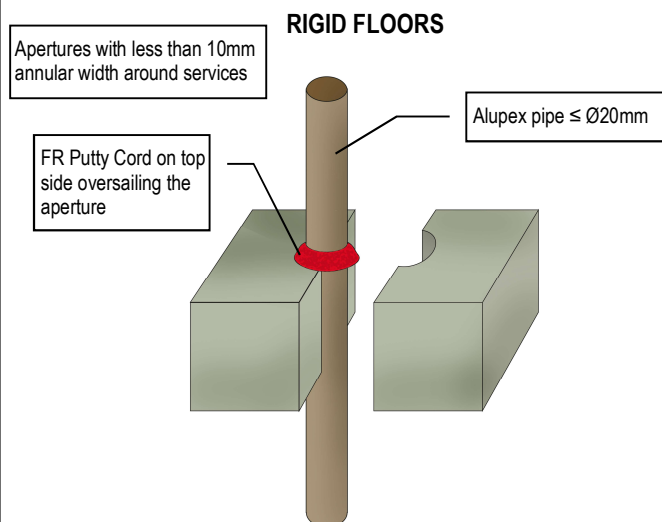
COPPER OR STEEL PIPE FIRE RESISTANCE EI 240 C/C (E 240 C/C)



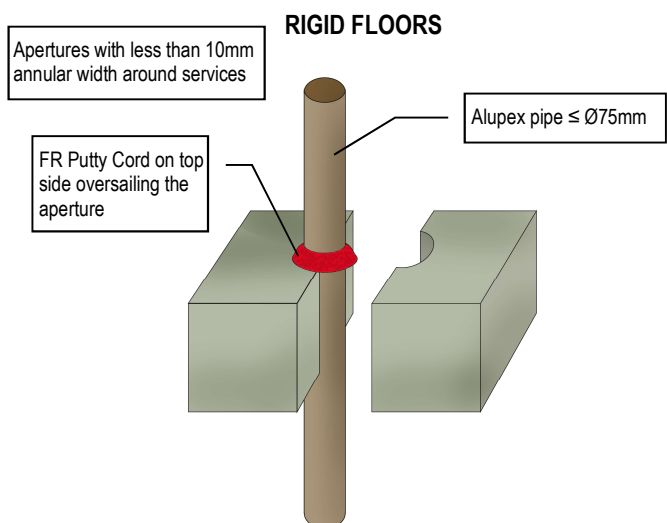
COPPER OR STEEL PIPE FIRE RESISTANCE EI 120 C/C (E 180 C/C)



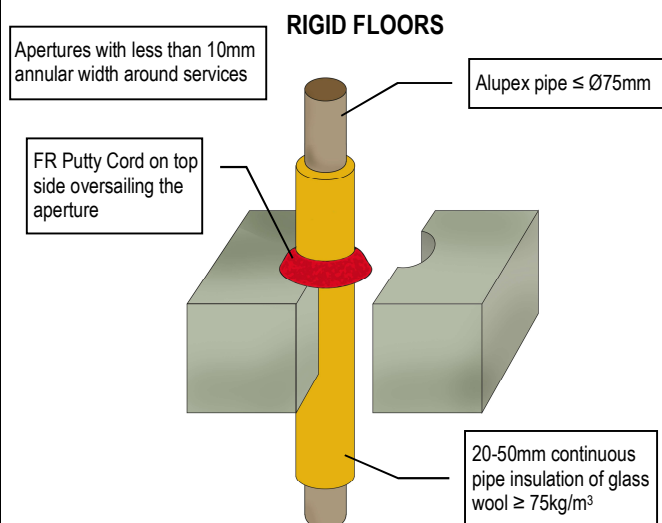
ALUPEX PIPE FIRE RESISTANCE EI 240 C/C (E 240 C/C)

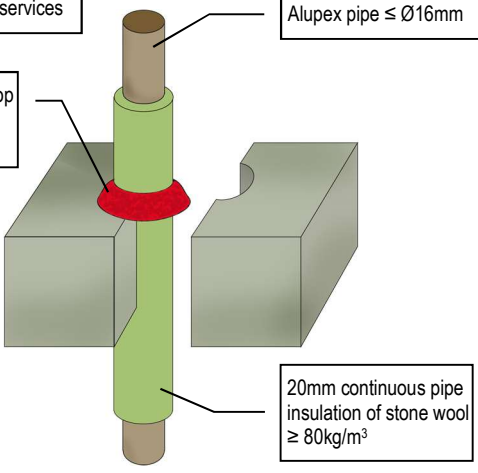
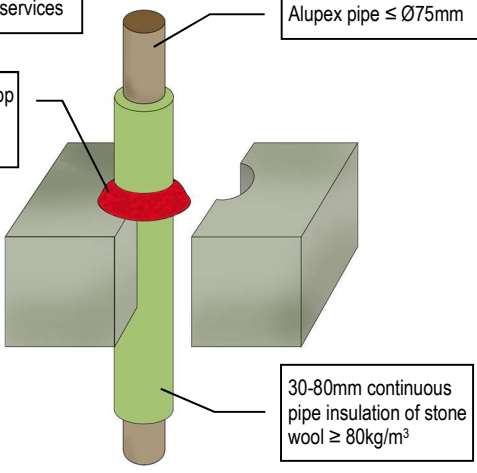
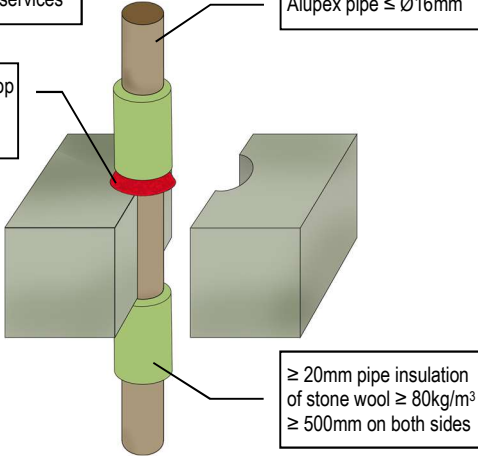
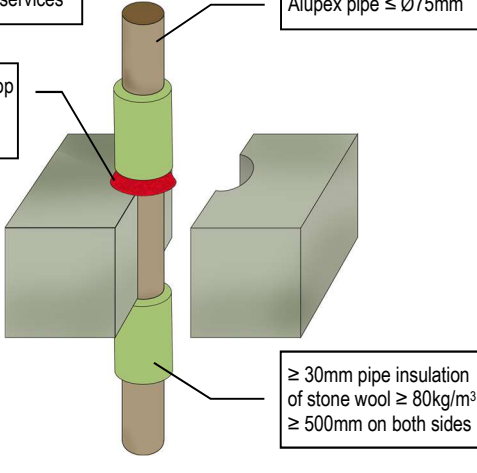
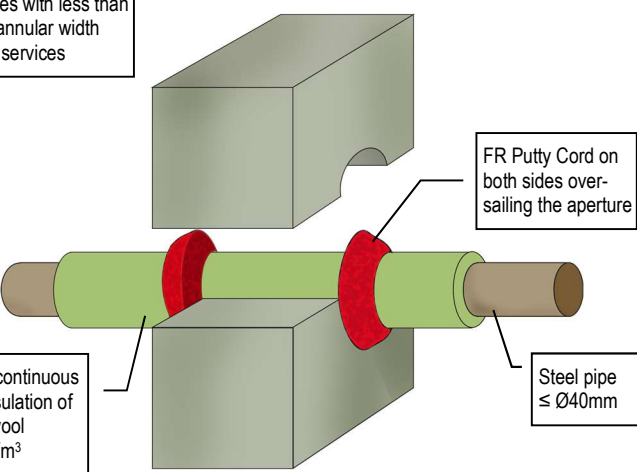
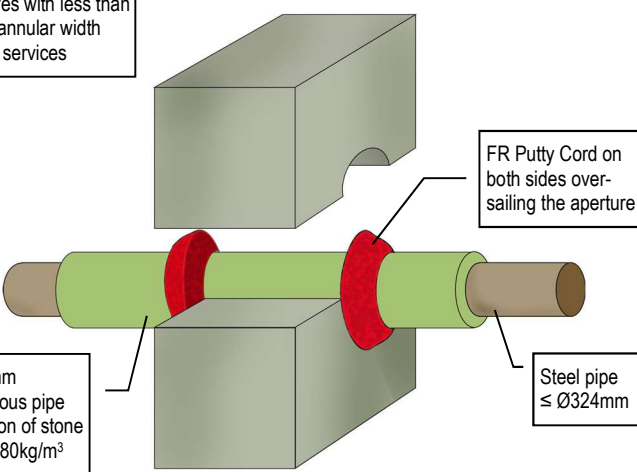


ALUPEX PIPE FIRE RESISTANCE EI 30 C/C (E 45 C/C)



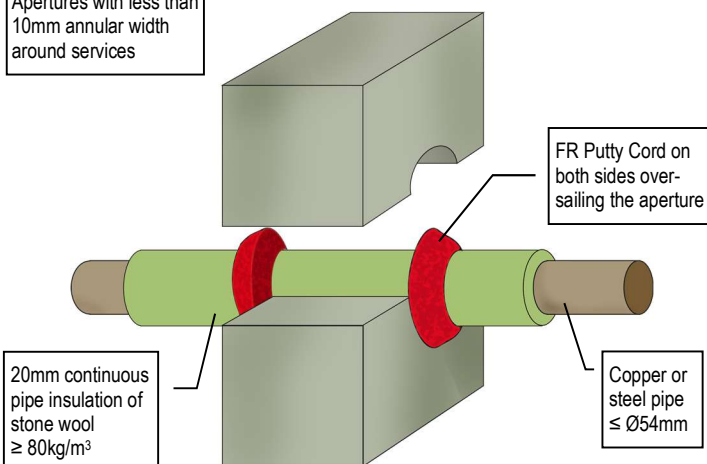
ALUPEX PIPE FIRE RESISTANCE EI 120 C/C (E 120 C/C)



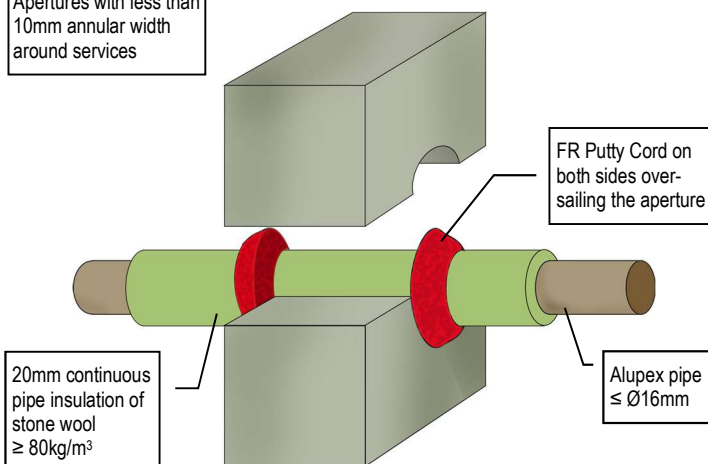
<p>ALUPEX PIPE FIRE RESISTANCE EI 240 C/C (E 240 C/C)</p> <p>RIGID FLOORS</p> <p>Apertures with less than 10mm annular width around services</p> <p>Alupex pipe $\leq \varnothing 16\text{mm}$</p> <p>FR Putty Cord on top side oversailing the aperture</p> <p>20mm continuous pipe insulation of stone wool $\geq 80\text{kg/m}^3$</p> 	<p>ALUPEX PIPE FIRE RESISTANCE EI 240 C/C (E 240 C/C)</p> <p>RIGID FLOORS</p> <p>Apertures with less than 10mm annular width around services</p> <p>Alupex pipe $\leq \varnothing 75\text{mm}$</p> <p>FR Putty Cord on top side oversailing the aperture</p> <p>30-80mm continuous pipe insulation of stone wool $\geq 80\text{kg/m}^3$</p> 
<p>ALUPEX PIPE FIRE RESISTANCE EI 240 C/C (E 240 C/C)</p> <p>RIGID FLOORS</p> <p>Apertures with less than 10mm annular width around services</p> <p>Alupex pipe $\leq \varnothing 16\text{mm}$</p> <p>FR Putty Cord on top side oversailing the aperture</p> <p>$\geq 20\text{mm}$ pipe insulation of stone wool $\geq 80\text{kg/m}^3$ $\geq 500\text{mm}$ on both sides</p> 	<p>ALUPEX PIPE FIRE RESISTANCE EI 240 C/C (E 240 C/C)</p> <p>RIGID FLOORS</p> <p>Apertures with less than 10mm annular width around services</p> <p>Alupex pipe $\leq \varnothing 75\text{mm}$</p> <p>FR Putty Cord on top side oversailing the aperture</p> <p>$\geq 30\text{mm}$ pipe insulation of stone wool $\geq 80\text{kg/m}^3$ $\geq 500\text{mm}$ on both sides</p> 
<p>STEEL PIPE FIRE RESISTANCE EI 120 C/U (E 120 C/U)</p> <p>MASONRY OR CONCRETE WALLS</p> <p>Apertures with less than 10mm annular width around services</p> <p>FR Putty Cord on both sides oversailing the aperture</p> <p>20mm continuous pipe insulation of stone wool $\geq 80\text{kg/m}^3$</p> <p>Steel pipe $\leq \varnothing 40\text{mm}$</p> 	<p>STEEL PIPE FIRE RESISTANCE EI 180 C/U (E 240 C/U)</p> <p>MASONRY OR CONCRETE WALLS</p> <p>Apertures with less than 10mm annular width around services</p> <p>FR Putty Cord on both sides oversailing the aperture</p> <p>30-80mm continuous pipe insulation of stone wool $\geq 80\text{kg/m}^3$</p> <p>Steel pipe $\leq \varnothing 324\text{mm}$</p> 

COPPER OR STEEL PIPE FIRE RESISTANCE EI 120 C/C (E 240 C/C)
MASONRY OR CONCRETE WALLS

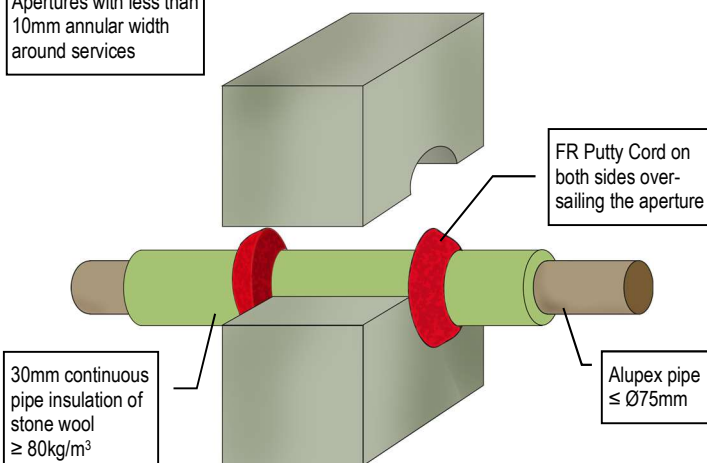
Apertures with less than 10mm annular width around services


ALUPEX PIPE FIRE RESISTANCE EI 240 C/C (E 240 C/C)
MASONRY OR CONCRETE WALLS

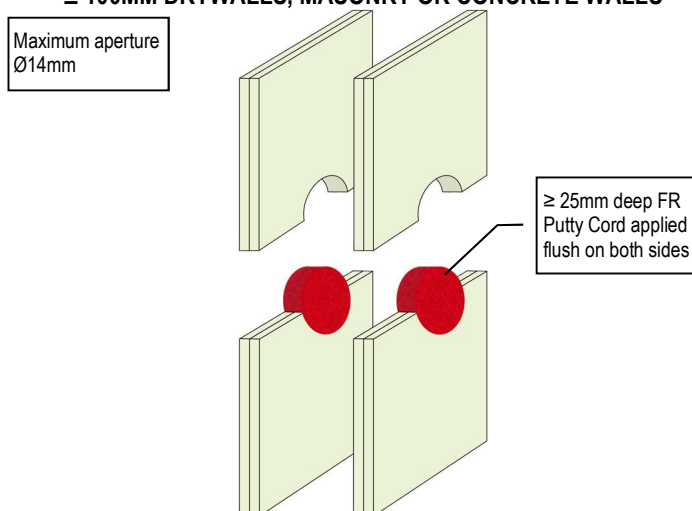
Apertures with less than 10mm annular width around services


ALUPEX PIPE FIRE RESISTANCE EI 240 C/C (E 240 C/C)
MASONRY OR CONCRETE WALLS

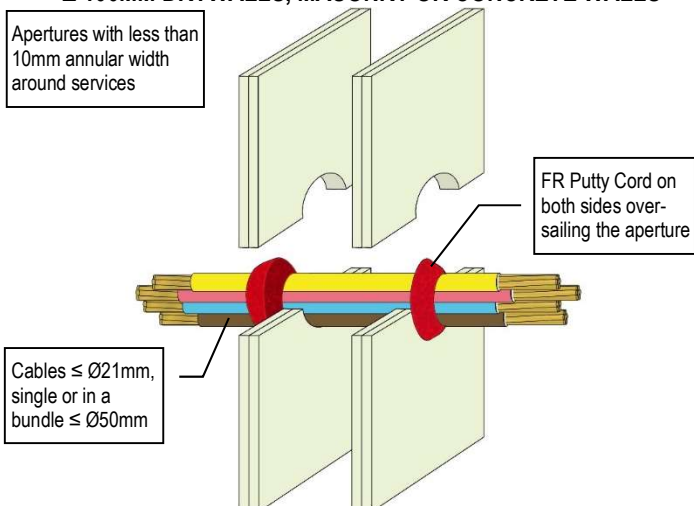
Apertures with less than 10mm annular width around services


BLANK SEAL FIRE RESISTANCE EI 120 (E 120)
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

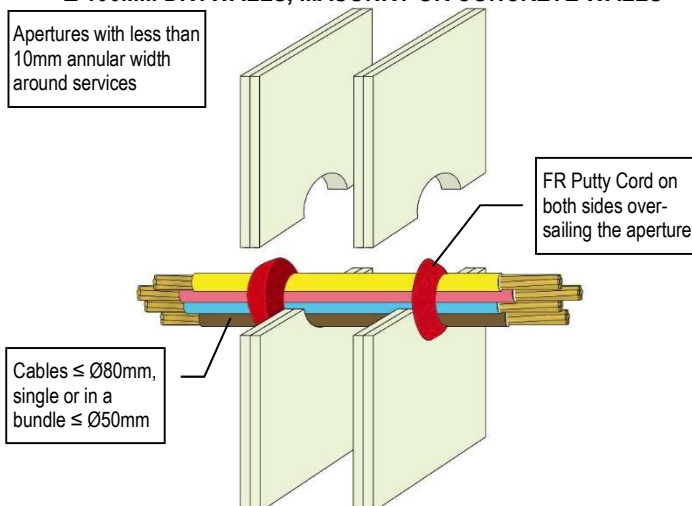
Maximum aperture Ø14mm


CABLES FIRE RESISTANCE EI 120 (E 120)
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

Apertures with less than 10mm annular width around services


CABLES FIRE RESISTANCE EI 60 (E 60)
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

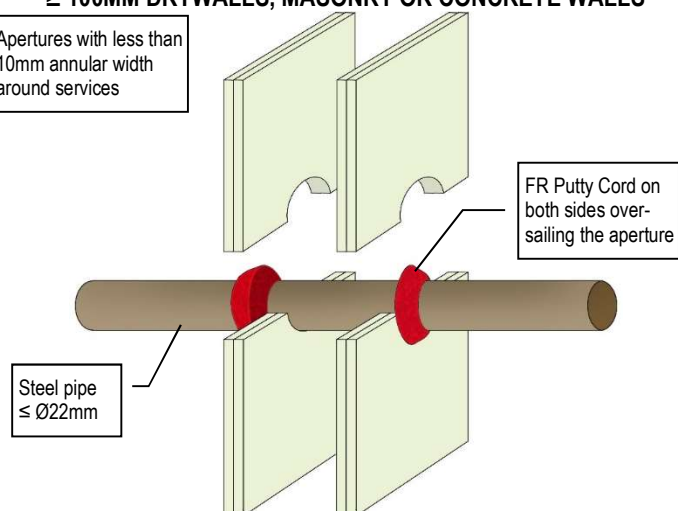
Apertures with less than 10mm annular width around services



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

≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

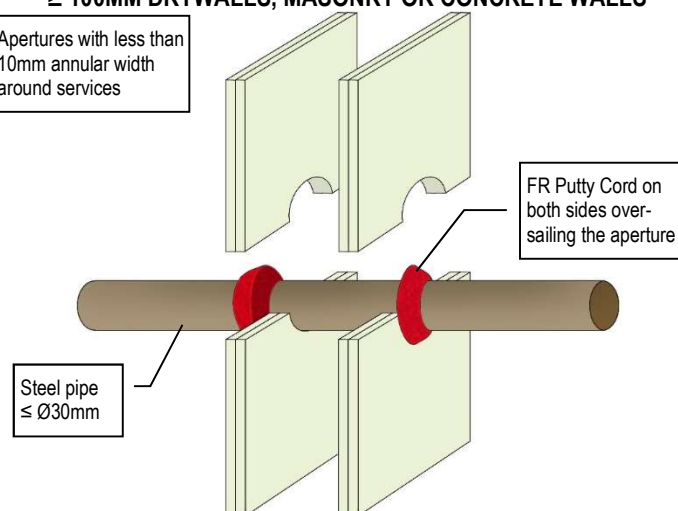
Apertures with less than 10mm annular width around services



STEEL PIPE FIRE RESISTANCE EI 45 C/U (E 120 C/U)

≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

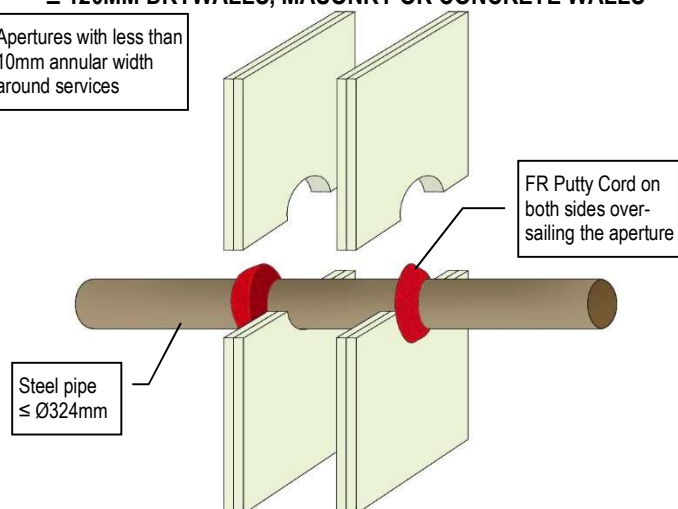
Apertures with less than 10mm annular width around services



STEEL PIPE FIRE RESISTANCE EI 20 C/U (E 90 C/U)

≥ 120MM DRYWALLS, MASONRY OR CONCRETE WALLS

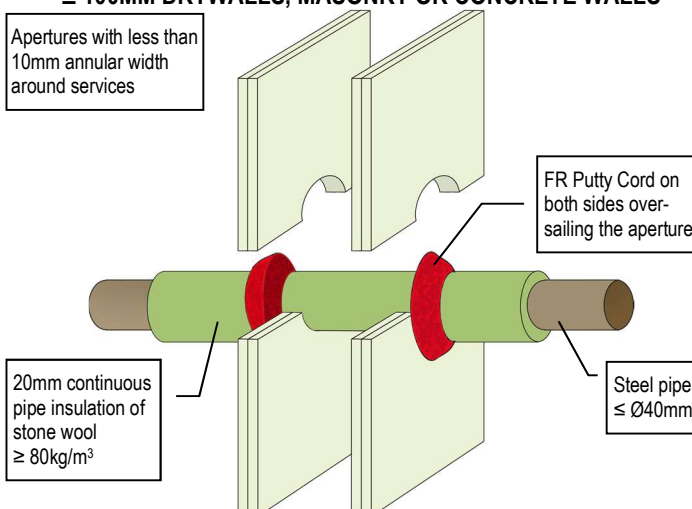
Apertures with less than 10mm annular width around services



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

≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

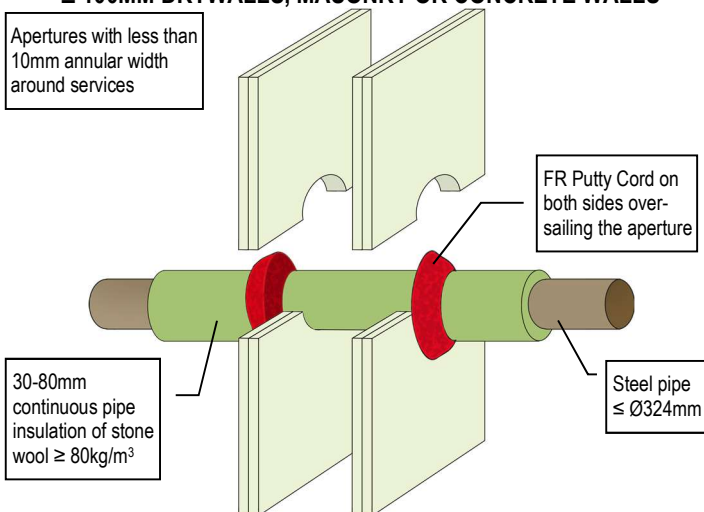
Apertures with less than 10mm annular width around services



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

≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

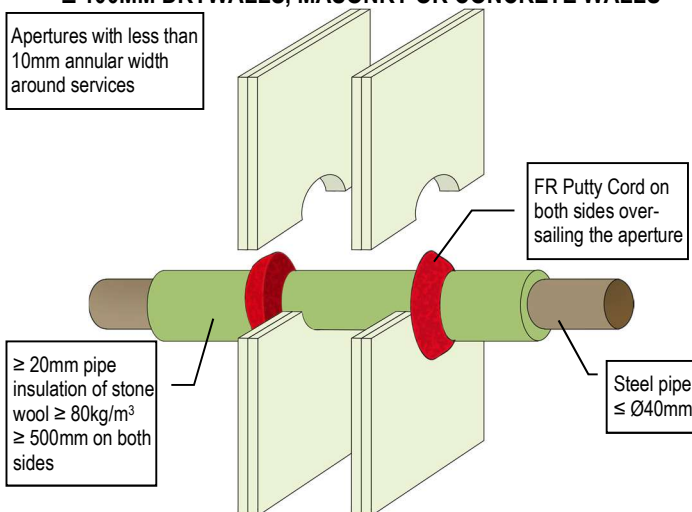
Apertures with less than 10mm annular width around services



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

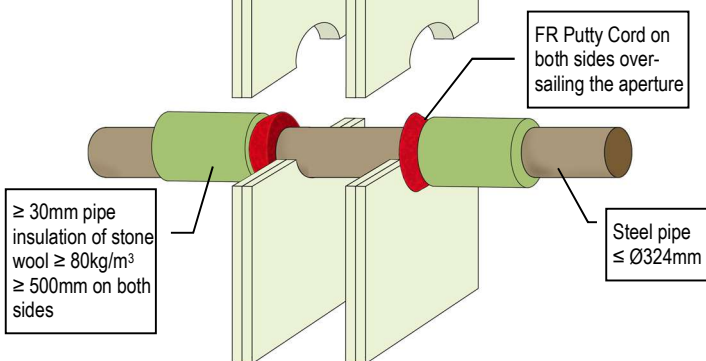
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

Apertures with less than 10mm annular width around services

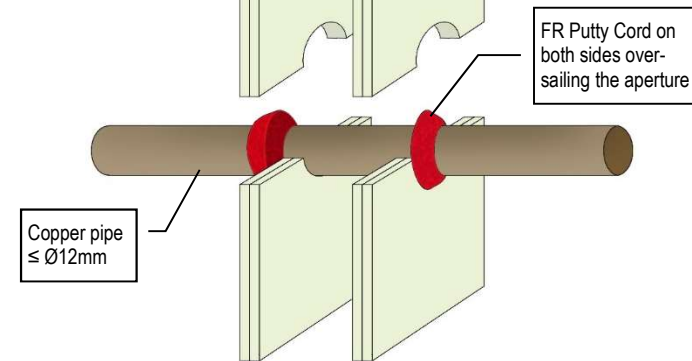


STEEL PIPE FIRE RESISTANCE EI 120 C/U (E 120 C/U)
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

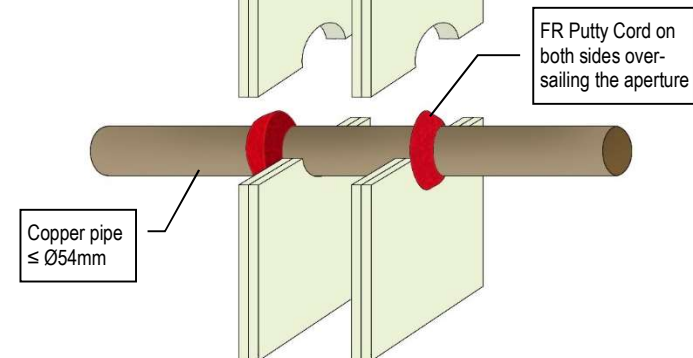
Apertures with less than 10mm annular width around services


COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 120 C/C)
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

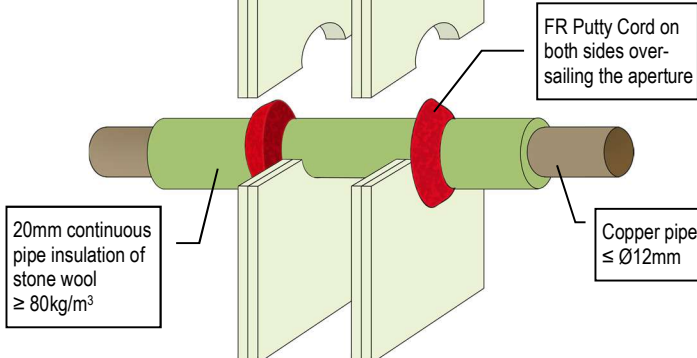
Apertures with less than 10mm annular width around services


COPPER PIPE FIRE RESISTANCE EI 15 C/C (E 90 C/C)
≥ 120MM DRYWALLS, MASONRY OR CONCRETE WALLS

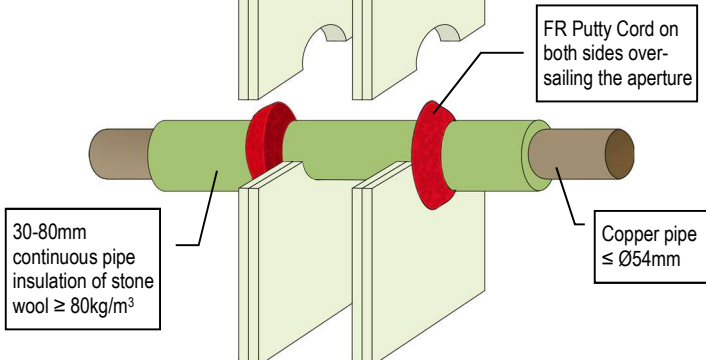
Apertures with less than 10mm annular width around services


COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 90 C/C)
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

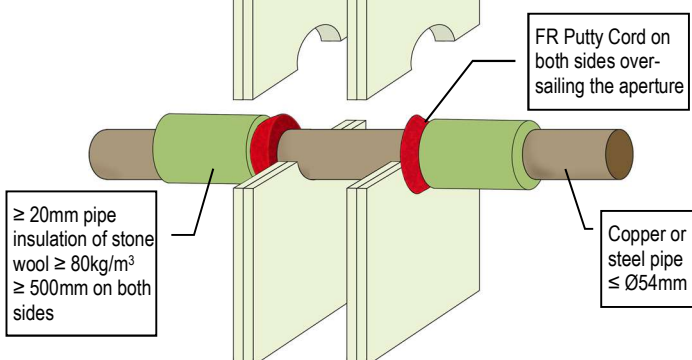
Apertures with less than 10mm annular width around services

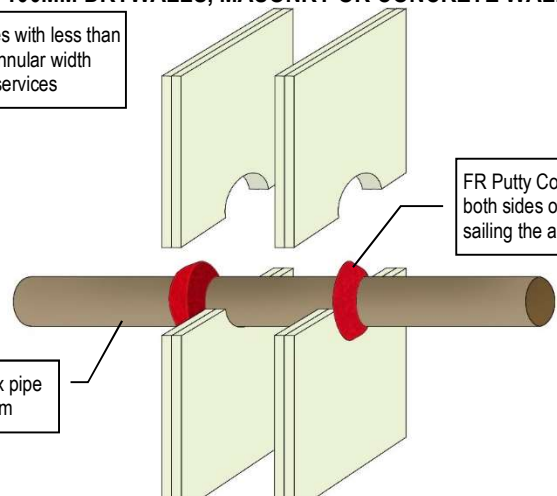
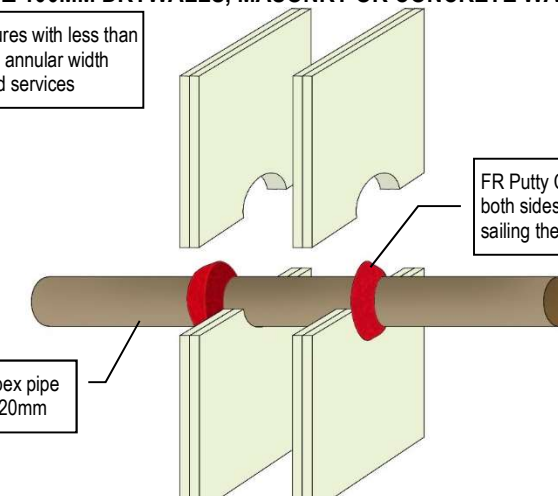
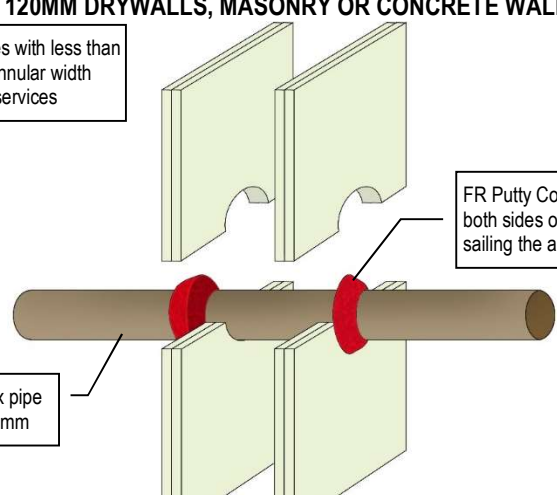
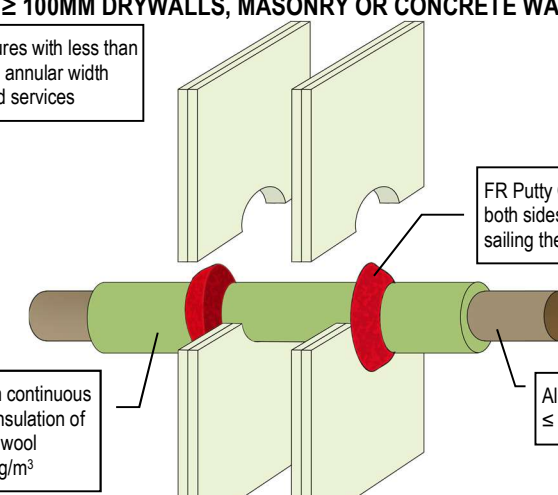
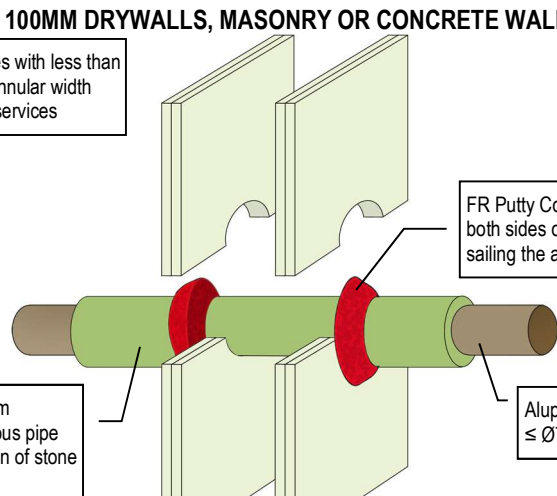

COPPER PIPE FIRE RESISTANCE EI 60 C/C (E 90 C/C)
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

Apertures with less than 10mm annular width around services


COPPER OR STEEL PIPE FIRE RESISTANCE EI 60 C/C (E 90 C/C)
≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS

Apertures with less than 10mm annular width around services



<p>ALUPEX PIPE FIRE RESISTANCE EI 120 C/C (E 120 C/C)</p> <p>≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS</p> <p>Apertures with less than 10mm annular width around services</p> <p>FR Putty Cord on both sides over-sailing the aperture</p> <p>Alupex pipe Ø16mm</p> 	<p>ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 120 C/C)</p> <p>≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS</p> <p>Apertures with less than 10mm annular width around services</p> <p>FR Putty Cord on both sides over-sailing the aperture</p> <p>Alupex pipe ≤ Ø20mm</p> 
<p>ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 90 C/C)</p> <p>≥ 120MM DRYWALLS, MASONRY OR CONCRETE WALLS</p> <p>Apertures with less than 10mm annular width around services</p> <p>FR Putty Cord on both sides over-sailing the aperture</p> <p>Alupex pipe ≤ Ø75mm</p> 	<p>ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 90 C/C)</p> <p>≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS</p> <p>Apertures with less than 10mm annular width around services</p> <p>FR Putty Cord on both sides over-sailing the aperture</p> <p>20mm continuous pipe insulation of stone wool ≥ 80kg/m³</p> <p>Alupex pipe ≤ Ø16mm</p> 
<p>ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 90 C/C)</p> <p>≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS</p> <p>Apertures with less than 10mm annular width around services</p> <p>FR Putty Cord on both sides over-sailing the aperture</p> <p>30-80mm continuous pipe insulation of stone wool</p> <p>Alupex pipe ≤ Ø75mm</p> 	<p>ALUPEX PIPE FIRE RESISTANCE EI 90 C/C (E 90 C/C)</p> <p>≥ 100MM DRYWALLS, MASONRY OR CONCRETE WALLS</p> <p>Apertures with less than 10mm annular width around services</p> <p>FR Putty Cord on both sides over-sailing the aperture</p> <p>≥ 20mm pipe insulation of stone wool ≥ 80kg/m³ ≥ 500mm on both sides</p> <p>Alupex pipe ≤ Ø16mm</p> 