

# PROTECTA® FR PUTTY CORD

## INSTALLATION INSTRUCTIONS



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For guidance on fire sealing ventilation ducts, please refer to Protecta FR Damper's 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 0 mm and 10 mm surrounding services. Minimum separation between apertures should be at least 30 mm. For larger joint dimensions or apertures other than described in the detailed drawings, Protecta® FR 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.

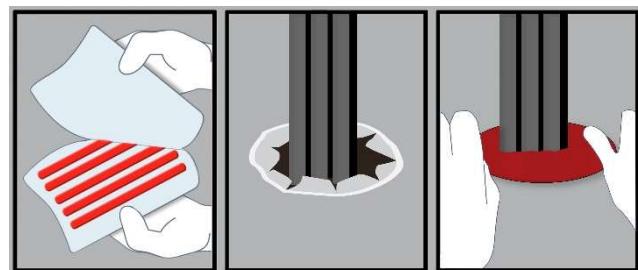
**Supporting constructions:** Flexible walls must have a minimum thickness of 100 mm and comprise steel studs or timber studs\*) lined on both faces with minimum 2 layers of 12.5 mm thick boards. Rigid walls must have a minimum thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m<sup>3</sup>. Rigid floors must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m<sup>3</sup>. 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 100 mm to a stud, and minimum 100 mm of insulation of class A1 or A2 according to EN 13501-1 must be provided within the cavity between the penetration seal and the stud.



### 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

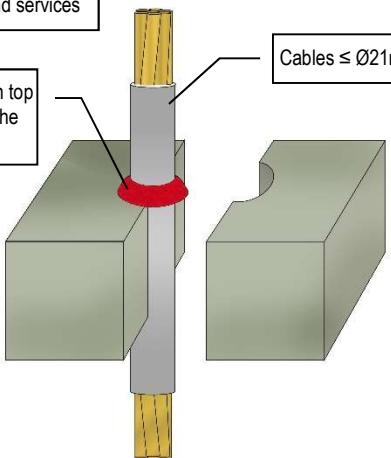
This Installation Instruction is based on the product's European Technical Assessment, issued in accordance with regulation (EU) No 305/2011, on the basis of EAD 350454-00-1104, September 2017.

## Detail Drawings Protecta® FR Putty Cord

### CABLES FIRE RESISTANCE EI 120 (E 120)

#### RIGID FLOORS

Apertures with less than 10mm annular width around services

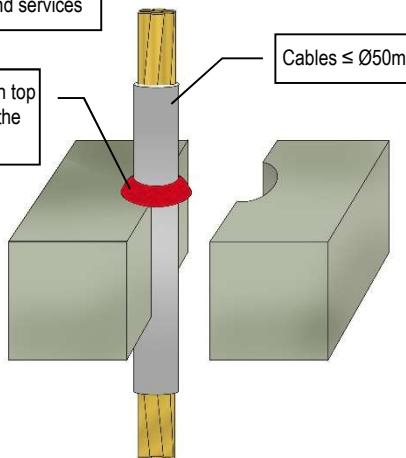


### CABLES FIRE RESISTANCE EI 90 (E 120)

#### RIGID FLOORS

Apertures with less than 10mm annular width around services

FR Putty Cord on top side oversailing the aperture

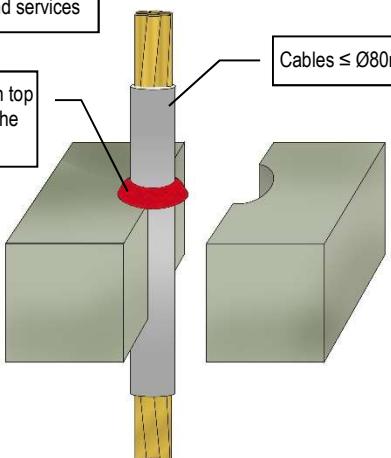


### CABLES FIRE RESISTANCE EI 60 (E 120)

#### RIGID FLOORS

Apertures with less than 10mm annular width around services

Apertures with less than 10mm annular width around services

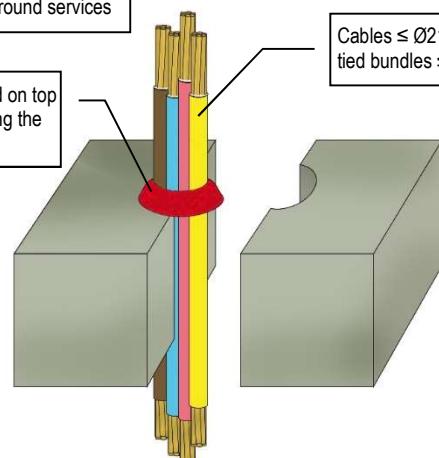


### CABLES FIRE RESISTANCE EI 60 (E 120)

#### RIGID FLOORS

FR Putty Cord on top side oversailing the aperture

Cables ≤ Ø21mm in tied bundles ≤ Ø50mm

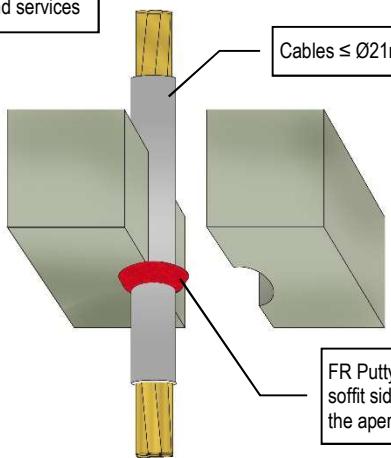


### CABLES FIRE RESISTANCE EI 60 (E 120)

#### RIGID FLOORS

Apertures with less than 10mm annular width around services

Apertures with less than 10mm annular width around services

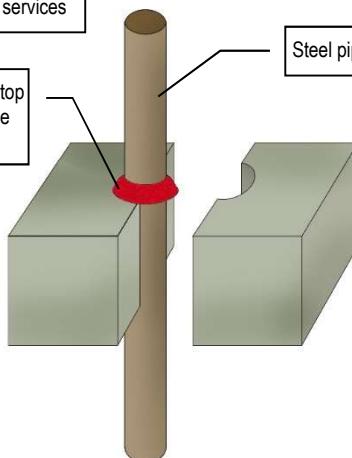


### STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 120 C/U)

#### RIGID FLOORS

FR Putty Cord on top side oversailing the aperture

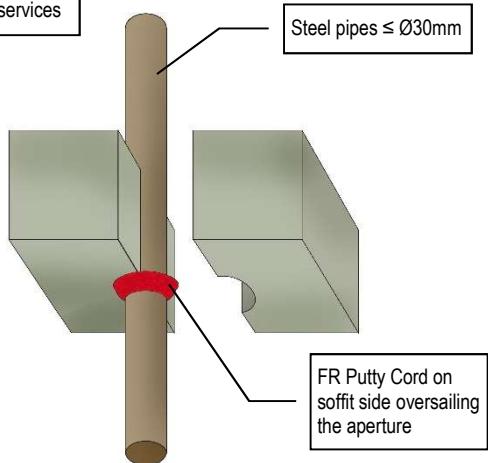
Steel pipes ≤ Ø22mm



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

**RIGID FLOORS**

Apertures with less than 10mm annular width around services

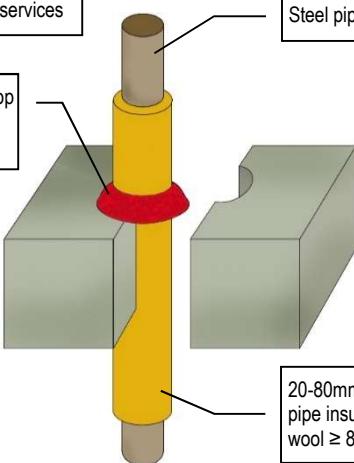


**STEEL PIPES FIRE RESISTANCE EI 240 C/U (E 240 C/U)**

**RIGID FLOORS**

Apertures with less than 10mm annular width around services

FR Putty Cord on top side oversailing the aperture



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

**RIGID FLOORS**

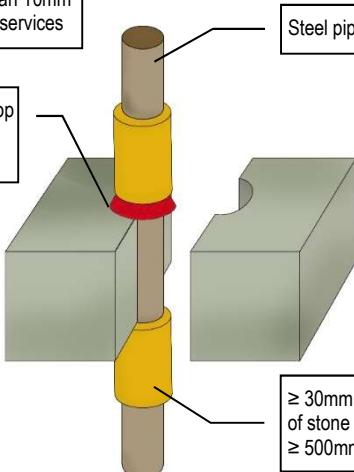
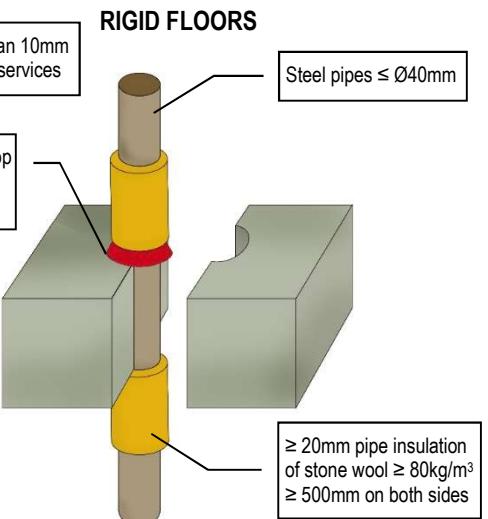
Apertures with less than 10mm annular width around services

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

**RIGID FLOORS**

Apertures with less than 10mm annular width around services

FR Putty Cord on top side oversailing the aperture



**COPPER PIPES FIRE RESISTANCE EI 90 C/C (E 120 C/C)**

**RIGID FLOORS**

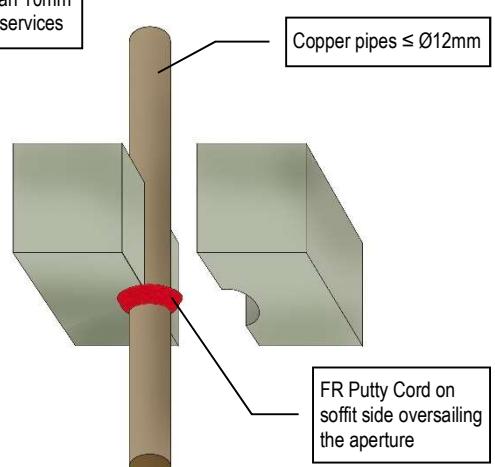
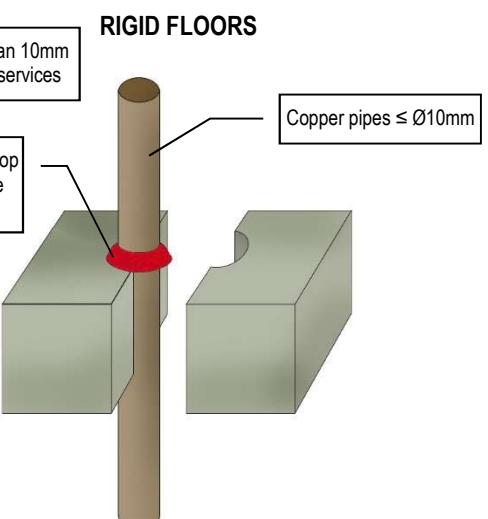
Apertures with less than 10mm annular width around services

**COPPER PIPES FIRE RESISTANCE EI 30 C/C (E 120 C/C)**

**RIGID FLOORS**

Apertures with less than 10mm annular width around services

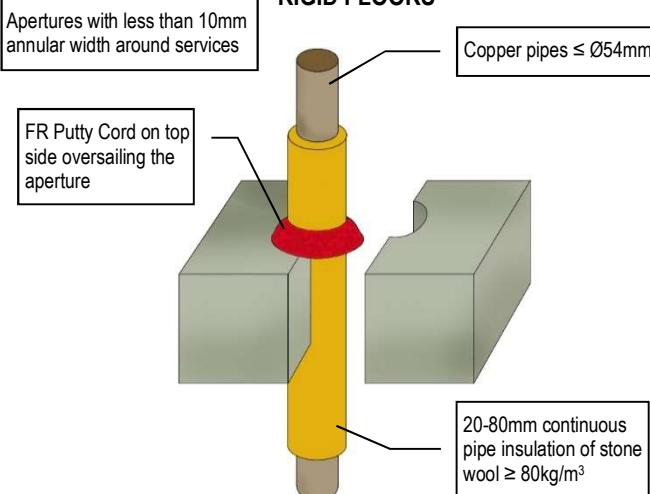
FR Putty Cord on top side oversailing the aperture



## Detail Drawings Protecta® FR Putty Cord

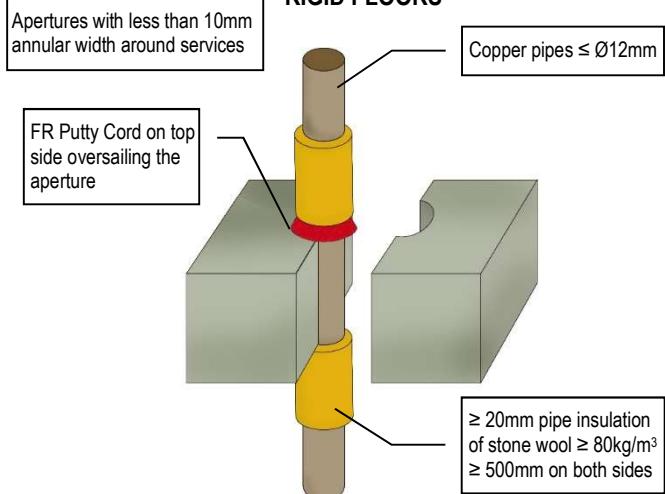
### COPPER PIPES FIRE RESISTANCE EI 240 C/C (E 240 C/C)

#### RIGID FLOORS



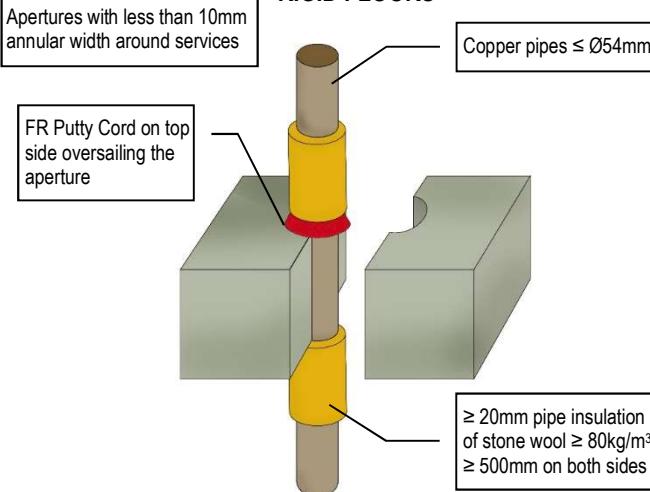
### COPPER PIPES FIRE RESISTANCE EI 240 C/C (E 240 C/C)

#### RIGID FLOORS



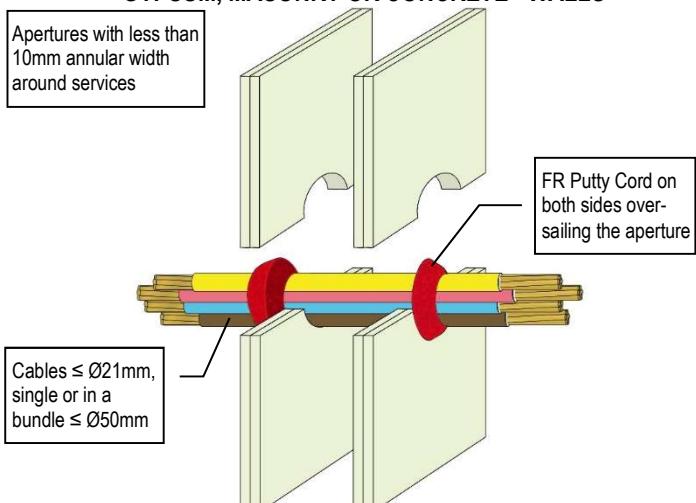
### COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 240 C/C)

#### RIGID FLOORS



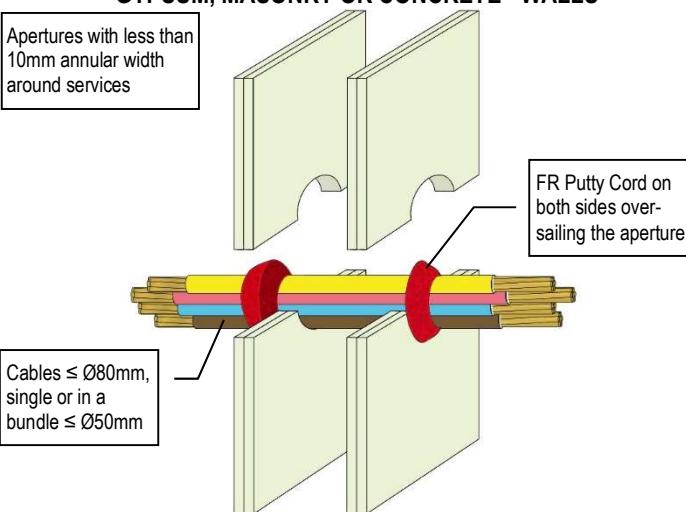
### CABLES FIRE RESISTANCE EI 120 (E 120)

#### GYPSUM, MASONRY OR CONCRETE - WALLS



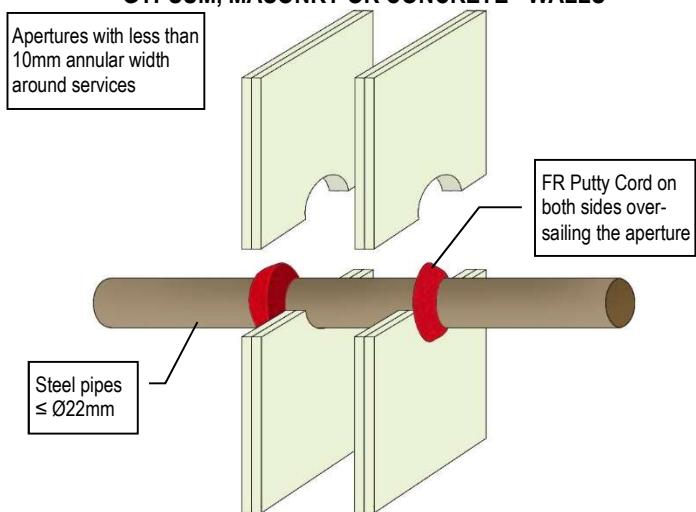
### CABLES FIRE RESISTANCE EI 60 (E 60)

#### GYPSUM, MASONRY OR CONCRETE - WALLS



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

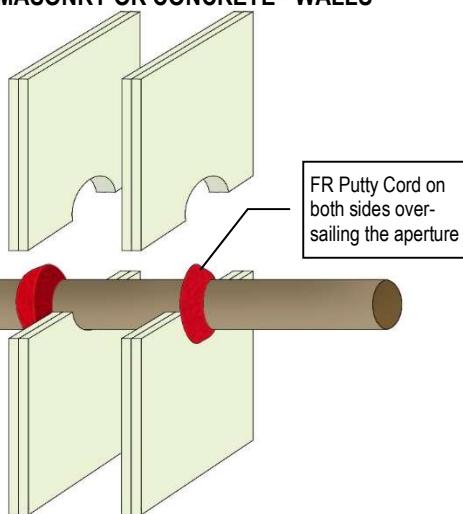
#### GYPSUM, MASONRY OR CONCRETE - WALLS



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

**GYPSUM, MASONRY OR CONCRETE - WALLS**

Apertures with less than 10mm annular width around services

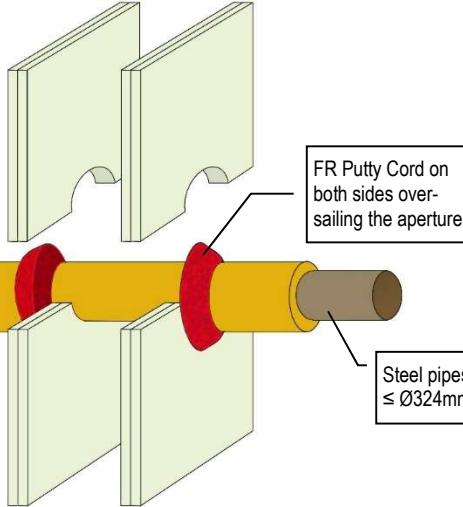


**STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90 C/U)**

**GYPSUM, MASONRY OR CONCRETE - WALLS**

Apertures with less than 10mm annular width around services

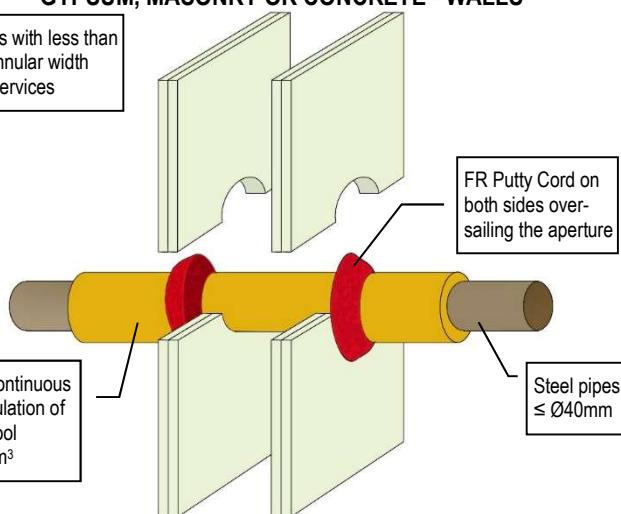
30-80mm continuous pipe insulation of stone wool  $\geq 80\text{kg/m}^3$



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

**GYPSUM, MASONRY OR CONCRETE - WALLS**

Apertures with less than 10mm annular width around services

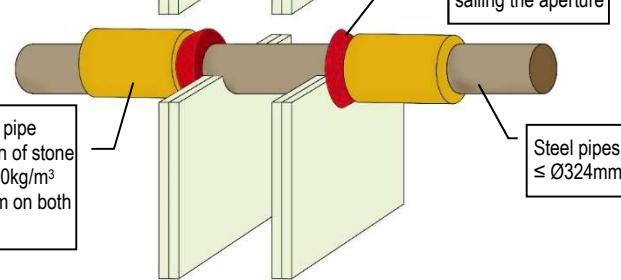


**STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 120 C/U)**

**GYPSUM, MASONRY OR CONCRETE - WALLS**

Apertures with less than 10mm annular width around services

$\geq 20\text{mm}$  pipe insulation of stone wool  $\geq 80\text{kg/m}^3$   
 $\geq 500\text{mm}$  on both sides

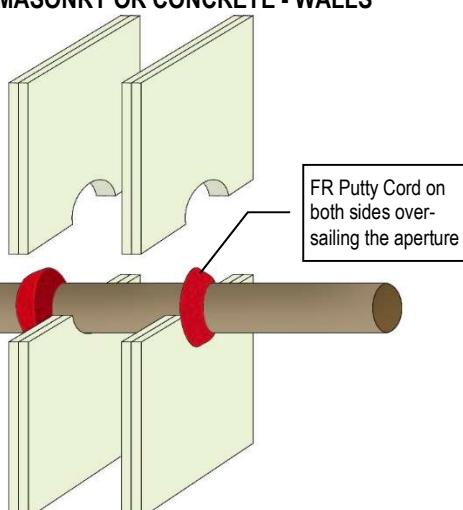


**COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 120 C/C)**

**GYPSUM, MASONRY OR CONCRETE - WALLS**

Apertures with less than 10mm annular width around services

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



**COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 90 C/C)**

**GYPSUM, MASONRY OR CONCRETE - WALLS**

Apertures with less than 10mm annular width around services

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

