

KM-FS FIRE FIGHTING COLLARS SYSTEM



GENERALITY

The system is made up of a galvanized sheet metal shell, containing strips of graphitic intumescent material with high thermal expansion **KM-FF107**. In case of fire, the graphite-based material inside the shell expands, sealing the crossing hole of the pipe. The fire protection of the piping is made with the fitting of a **KM-FS** collar on both sides of the wall or on the underside of the slab (on the ceiling).

DESCRIPTION

Fire fighting collar **KM-FS**, for combustible pipes or steel pipes insulated with armaflex; internal diameter of the collar 32÷400 mm.

FUNCTIONALITY

Wall crossing. The **KM-FS** collar, made of a single open galvanized steel shell, is fastened to the pipe to be protected through the tongues and fixed on both sides of the wall with four metal stud bolts or with fire resistant self-tapping screws.

Slab crossing. The **KM-FS** collar is fixed around the pipe, to the ceiling side only with four metal stud bolts or with fire resistant self-tapping screws.

The functionality of the product is guaranteed even with it submerged in the underside of the slab (ceiling side). The effect of the heat expands the intumescent strips inside the shell, and the space left by the melting of the inflammable pipe; so the crossing will be sealed against the propagation of smoke and fire.

APPLICATION

Easy to set up; the collars, made up of an open shell, is fixed to the pipe to be protected and screwed up to the crossed structural partition with metal stud bolts or with fire resistant self-tapping screws or threaded rods when applied to plasterboard walls. The fire that invests the pipe causes the fusion of the flammable material and the expansion of the thermo-expanding material inside the shell, sealing the empty space completely.

Functionality is also guaranteed with the collar let into the concrete (ceiling side).

CERTIFICATIONS

- According to European Standard UNI-EN 1366-3, EI 180 on concrete walls.
- According to European Standard UNI-EN 1366-3, EI 120 on plasterboard walls.
- ETA– 22/0297 (30/06/2022) according to EU standard no.305/2011, based on Europe document (EAD) 350454-00-1104 “Fire protection products and sealants. Penetration seals”

TECHNICAL DATA

Colour:	grey-steel
Shell:	galvanized steel
Content:	graphitic based intumescent strips KM-FF107
Density:	630 kg/m ³
Free expansion:	at 400°C in 15 min
Pressure:	14 bar at 400°C
Flashpoint:	unflammable
Reaction temperature:	200°C
Sizes:	inside Ø 32 ÷ 400 mm H: 50 mm (Ø32 - Ø200 mm) 100 mm (Ø250 - Ø315 mm) 180 mm (Ø400mm)
Dangerous reactions:	none observed
Storage:	in a closed environment not exposed to water and moisture
Transport:	no restrictions on land no restrictions ICAO/IATA-DGR (not in direct contact with edible products)

FURTHER INFORMATION: No care is required

Acute effects to exposure:	none
Classification and labelling:	none required
Warnings:	none
Safety advice:	none