



## ORYX® BOX EI 90

Version 1.0, 27-09-2016 (English)

**ORYX®, passion for passive fire protection**

*ORYX® is the specialist in passive fire protection for buildings. Thanks to our passionate expertise and extensive product range, ORYX® provides solutions for countless applications in the field of fire-resistant load-bearing structures, fire-resistant compartments and the creation of fire-resistant penetrations. All products and applications have a CE-label and were tested in line with European standards and can therefore be used right across Europe.*

*Our specialists are always ready to provide you with technical advice and support.*

### PRODUCT DESCRIPTION

**ORYX® BOX EI 90** is a penetration element that is specially manufactured for fire-resistant sealing of cable and tube penetrations. They are constructed of a steel casing with elements of intumescent material on the inside. This material expands once a temperature of around 100°C has been reached. Depending on the opening in the wall or floor, and the number and type of pipes, a rectangular box can be fitted in all sorts of sizes.

### CHARACTERISTICS

- CE label for fire-resistant applications
- Supplied ready to use
- Suitable for fire-resistant penetrations to EI 90 (EN 13501-2)
- Suitable for all types of cable to Ø 80 mm and cable bundles to Ø 100 mm. The individual cables in the bundle up to Ø 21 mm.
- Suitable for steel and plastic tubes up to Ø 16 mm.
- Suitable for all bendy and stiff plastic electro tubes to Ø 63 mm, with or without cables
- The boxes can be completely filled with cables, pipes and tubes
- The tubes and cables may be fitted tightly together
- No toxic gasses are released in the event of fire
- Complies with all requirements in the area of sustainability for LEEDS buildings (Leadership in Energy and Environmental Design)



### APPLICATIONS

ORYX® BOX EI 90 with a depth of 270 mm may be fitted:

- A light partition wall, thickness min. 100 mm, comprising metal or wooden uprights with on both sides a double layer of plasterboard or cement-bonded boards of 12.5 mm thick (fire class A1 or A2 in line with EN 13501-1)
- A solid wall, min. 100 mm thick, comprising brickwork, concrete or aerated concrete

ORYX® BOX EI 90 with a depth of 350 mm may be fitted:

- A light partition wall comprising metal or wooden uprights with on both sides a double layer of plasterboard or cement-bonded boards of 12.5 mm thick (fire class A1 or A2 in line with EN 13501-1)
- A solid wall comprising brickwork, concrete or aerated concrete, at least 150 mm thick
- A solid floor comprising concrete or aerated concrete, at least 150 mm thick

### FITTING GUIDELINES

- The ORYX® BOX EI 90 is inserted in the recessed wall or floor opening
- Leave at least 20 mm around the ORYX® BOX EI 90 so that the space between the wall or the floor and the box can be filled to the full depth with mortar, plaster or mineral wool.
- After fitting, the box remains open on the inside. However, once fitted, the box must be sealed on both sides using the EasyFoam plug and then sealed with a stable sealant based on acrylic or silicone
- All openings must also be sealed to prevent smoke using a supple sealant based on acrylic or silicone
- If the penetrations are already fitted, the box can be opened to insert new penetrations
- If multiple boxes are fitted, the mutual distance between the boxes must be at least 100 mm for boxes with a max. width of 400 mm and at least 200 mm for wider boxes



### **PACKAGING AND STORAGE**

Dimensions:

- Width 160 mm, height 110 mm
- Width 200 mm, height 110 mm
- Width 240 mm, height 110 mm
- Width 280 mm, height 110 mm
- Width 335 mm, height 110 mm

Other heights and widths available. Boxes are packed individually.

### **LIMITATIONS**

- To ensure ORYX® boxes function properly, the internal intumescent elements must not be damaged
- No holes may be drilled in the boxes
- The boxes may also not be sawn
- The boxes may not protrude further than 8.5 cm from the wall or floor
- Only for use indoors
- May be used in humid spaces, at temperatures above 0°C

### **SAFETY REQUIREMENTS**

The intumescent material fitted in an ORYX® box does not contain any hazardous substances registered in the European Commission list.

### **DISCLAIMER**

The content of this brochure has been compiled with the greatest possible care and is only intended for information purposes. The information contained herein does not constitute a partial or full guarantee or proposal for which we are liable. We reserve the right to change or alter product specifications.

All information about our products and applications can be found at [www.oryx.pro](http://www.oryx.pro)