

INTU FR DISC

Firestop intumescent disc

TDS Technical Data Sheet



•INTUSEAL®
passive fire protection manufacturer

CE



www.intuseal.com

→ PRODUCT DESCRIPTION

The **INTU FR DISC** is a Ø65 x 3 mm self-adhesive fireproof intumescent disc that is applied to the partition and can be plastically shaped around installations in small openings up to Ø25 mm in diameter. **INTU FR DISC** swells when exposed to temperature and forms a fire-resistant seal for installations passing through the partition in fire resistance class up to **EI120**.

→ APPLICATION

The Fire resistant system **INTU FR DISC** is designed for application in openings of diameter $\leq \text{Ø}25 \text{ mm}$ and used to fire protection of:

- Single electric cables with diameter $\text{Ø} \leq 21 \text{ mm}$
- Fibre-optic cables and cable bundles with diameter $\text{Ø} \leq 25 \text{ mm}$
- Single steel pipes with diameter $\text{Ø} \leq 16 \text{ mm}$

Flexible walls:

The wall must be minimum thickness 100 mm. Must have frame structure of steel or wooden sections covered on both sides with minimum 2 layers of panels with minimum thickness 12,5 mm.

Rigid walls:

The wall must be minimum thickness 100 mm. Must be made of concrete, reinforced concrete, concrete blocks, cellular concrete, ceramic brick (solid, hollow or lattice) or silicate brick (solid or hollow) with min. density 450 kg/m³.

Rigid floors:

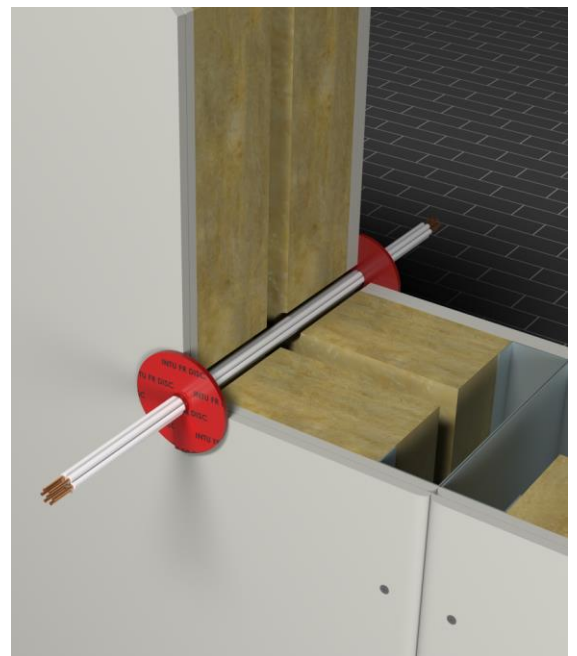
The floor must be minimum thickness 150 mm. Must be made of concrete, reinforced concrete or cellular concrete with minimum density 550 kg/m³.

→ AVAILABILITY

Product	Dimesnions	Box	Outer box	Pallet	Art. noumber
INTU FR DISC	65 mm x 3 mm	32	384	12288	INFRDC32

→ INSTALLATION METHOD

- Clean the surfaces of the partition from grease and other contaminants before sealing is performed.
- Stick the intumescent disk at the installation site with 10 mm overlap:
 - in wall: apply intumescent discs from both sides of the partition
 - floor, apply intumescent disc from the bottom of the floor



→ TRANSPORT AND STORAGE

Store in dry conditions, at a temperature between +5°C to +25°C. Shelflife: 12 months from the date of production placed on the package.

→ COMPLIANCE

Reference standard:

- Classification report no.: 01988.2/23/Z00NZP
- EN 1366-3 / EAD 350454-00-1104
- TDS

➔ FIRE CLASSIFICATION

Installation penetration type	Diameter Ø [mm]	Fire resistance class	
		Flexible / Rigid wall	Floor
Single or double cable	$\text{Ø} \leq 14$	EI 120	EI 90 / E 120
	$14 < \text{Ø} \leq 21$		
Bundle of cables	$\text{Ø} \leq 25$		
Single or double cable type A1, A2, A3, F	-	-	EI 120

Conduit type	Conduit diameter [mm]	Service inside	Fire resistance class in flexible/rigid wall
Steel pipe / conduit	$\text{Ø} \leq 16$	empty	EI 120-C/U
Plastic conduit	$\text{Ø} \leq 25$	empty	E 120-U/U
		Small cable $\text{Ø} \leq 21$	E 120-U/U
		Type B cable	EI 90 / E 120-U/U

➔ SOLUTION DETAILS

		<p>Fig. 1. Cables penetration in wall</p> <p>1 – rigid wall, thickness $A \geq 100$ mm 2 – flexible wall, th. $A \geq 100$ mm 3 – cable up to $\text{Ø}21\text{mm}$ or bundle of cables up to diameter $\text{Ø}25\text{mm}$ 4 – intumescent pad INTU FR DISC</p> <p>Distance between openings $\geq 20\text{mm}$</p>
		<p>Fig. 2. Steel pipe penetration in wall</p> <p>1 – rigid wall, thickness $A \geq 100$ mm 2 – flexible wall, th. $A \geq 100$ mm 3 – steel pipe diameter $\text{Ø} \leq 16$ mm 4 – intumescent pad INTU FR DISC</p>
		<p>Fig. 3. Cables penetration in floor</p> <p>1 – rigid floor, thickness $B \geq 150$ mm 2 – cable or bundle of cables 3 – intumescent pad INTU FR DISC</p>