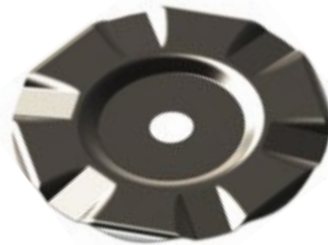


# Technical Datasheet

## INSULATION FIXINGS & DISCS



## PRODUCT DESCRIPTION

The A2 or Zinc-Plated fire rated insulation support anchor. Simply hammer the anchor into the prepositioned insulation, and the anchor will expand into the substrate, securing the load. The hammer installation allows fast setting and reducing the amount of work.

## FEATURES

- ✓ Approved for multiple fastenings of insulation panels
- ✓ High load-bearing capacity in cracked and non-cracked concrete
- ✓ Small drill holes
- ✓ Quick and safe installation

## TECHNICAL CHARACTERISTICS WITHOUT FIRE EXPOSURE

			Certifix Insulation Anchor ISA
Drill Bit Diameter	$d_o$	[mm]	8
Depth of Drill Hole	$h_1 \geq$	[mm]	45
Effective Anchorage Depth	$h_{ef} \geq$	[mm]	40
Minimum Thickness of Member	$h_{min}$	[mm]	80
Edge Distance	$c$	[mm]	60
Spacing	$s$	[mm]	120
Permissible load in cracked and non-cracked concrete C20/25 – C50/60 <sup>1,2</sup>	$N_{zul}$	[kN]	0.074

The partial safety factor for material resistance from the approval  $\gamma_M = 1.5$  as well a partial safety factor for load actions  $\gamma_F = 1.4$  were considered for determining the load

## MATERIAL

- Zinc-Plated Steel – ISA-Z
- A2 Stainless Steel – ISA-S
- Zinc-Plated Steel – ISA-Z D
- A2 Stainless Steel – ISA-S D
- ISA-S/ISA-Z + Cap – ISA-SP, ISA-ZP

## BASE MATERIAL

- Approved for C20/25 – C50/60 concrete
- Approval in both cracked and non-cracked concrete

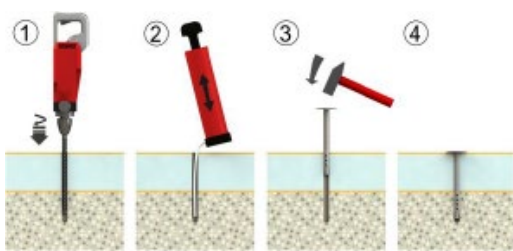


## TECHNICAL CHARACTERISTICS UNDER FIRE EXPOSURE

Certifix Insulation Anchor ISA			
<b>Fire Resistance Class</b>			
R 30	Permissible Load $F_{fi,per,30}$ 1)	[kN]	0.09
R 60	Permissible Load $F_{fi,per,60}$ 1)	[kN]	0.09
R 90	Permissible Load $F_{fi,per,90}$ 1)	[kN]	0.09
R 120	Permissible Load $F_{fi,per,120}$ 1)	[kN]	0.09
R 180	Permissible Load $F_{fi,per,180}$ 1)	[kN]	0.06
R 30 – R 120	Spacing $s_{fi}$ Edge Distance $c_{fi}$	[mm]	120

The partial safety factor for material resistance from the approval  $\gamma_M = 1.0$  as well a partial safety factor for load actions  $\gamma_F = 1.0$  were considered for determining the load.

## INSTALLATION INSTRUCTIONS



- 1) Set drill hole
- 2) Clean out drill hole from the base
- 3) Knock insulation fastener through the insulation panel with a hammer
- 4) Anchor disc must fully contact the insulation panel

Minimum 4 anchors per square meter for insulation panel. The dimension between axes and edge distance is valid without fire exposure. Assumed that an application is forced with fire exposure.

