

Safety Nail TDN



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Safety Nail TDN-O

Description

The Safety Nail TDN is a hammer-in steel anchor for cracked and non-cracked concrete, with fire resistance classification, vandal-proof. Supplied pre-assembled.

Applications

Suspended ceilings, ventilation systems, claddings, brackets, metal sheet.

Load Range: 0,5 kN - 2,4 kN



Safety Nail TDN



- Steel, zinc plated
- For cracked and non-cracked concrete

Description	Ref. No.	Drill hole Ø mm	Fixture thickness mm	Eye - Ø mm	Package content pcs.	Weight per package kg
TDN 6/5	72210101	6 x 40	5	-	100	1,0
TDN 6/65	72230101	6 x 40	35	-	100	1,8
TDN-O ¹⁾	72250101	6 x 45	-	9	100	2,5

¹⁾Not part of the approval



Extract from Permissible Service Conditions of ETA-06/0259

Multiple use for non-structural applications. Total safety factor as per ETAG 001 included (γ_M and γ_p). The maximum load per fixing point for multiple use for non-structural applications may, depending on national regulations, are below the approved load of the anchor. The approved loads per fixing point are regulated for their respective countries in the ETAG 001, Part 6.

Loads and performance data			TDN 6/5	TDN 6/35	TDN-O ¹⁾
			concrete C20/25 to C50/60		
Approved loads, any direction	appr.F	[kN]	2,4	2,4	0,5
Loads under fire exposure (C20/25 to C50/60)					
Approved loads R 30	appr.F	[kN]	0,8	0,8	-
Approved loads R 60	appr.F	[kN]	0,7	0,7	-
Approved loads R 90	appr.F	[kN]	0,6	0,6	-
Approved loads R 120	appr.F	[kN]	0,4	0,4	-
Spacing and edge distance					
Effective anchorage depth	h _{ef}	[mm]	32	32	33
Minimum spacing	s _{min}	[mm]	200	200	200
Minimum edge distance	c _{min}	[mm]	150	150	150
Minimum thickness of concrete slab	h _{min}	[mm]	80	80	100
Installation parameters					
Drill hole diameter	d ₀	[mm]	6	6	6
Depth of drill hole	h ₁	[mm]	40	40	45
Head diameter		[mm]	15	15	-

¹⁾Not part of European Technical Assessment

Installation

