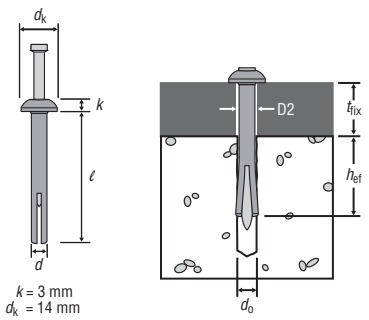
TENN DNA Nail Anchors

Deformation-Controlled Expansion Anchors

TENN DNA Nail Anchor is a hardened steel nail enclosed in a shell made of Zamac 3 material, a non-rusting Al/Zn/Cu alloy.

- Non-staining, the Zamac 3 shell gives cathodic protection to the steel nail (prevents it from rusting).
- Easy to use.
- Drill-hole depth is not critical.
- No alignment problems – the anchor hole may be drilled in-situ and DNA inserted through the clearance hole in the fixture.
- No special setting tools needed.
- Ideal where tamper-resistant fastenings are required.
- Ideal for fire-resistive overhead applications.
- Use in concrete, rock, solid brickwork, wood.

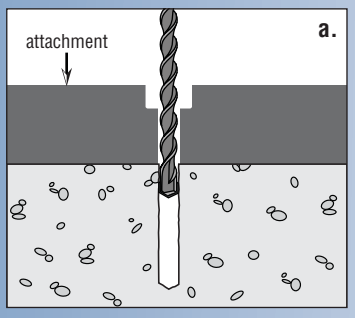


k = 3 mm
d_k = 14 mm
D2 = 6.5 – 8 mm

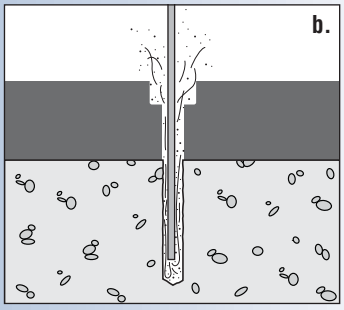
Effective Embedment Depth h_{ef}, mm	Average Ultimate Loads* in C20/25 concrete	
	Tension N_U, kN	Shear V_U, kN
20	3.3	4.1
25	3.8	5.5
30	4.5	5.5
35	5.8	5.5
40	7.0	5.5

**A safety factor of 4 is recommended for single anchors under static loading conditions.*

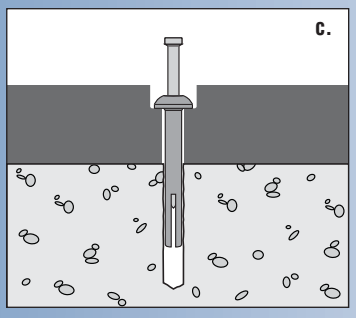
INSTALLATION PROCEDURE



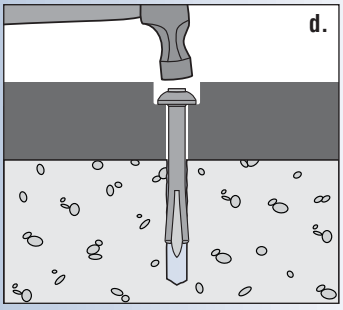
a. Drill 6 mm diameter hole to required depth.



b. Blow out drill dust from hole.



c. Push DNA Anchor into drilled hole until head contacts attachment.



d. Hammer home expander nail.

TENN DNA Range

Type	Anchor Dimensions d x ℓ, mm	Drill-Hole Diameter d_o, mm	Maximum Attachment Thickness t_{fix}, mm
DNA.630	6 x 30	6	10
DNA.640	6 x 40	6	15
DNA.650	6 x 50	6	20
DNA.665	6 x 65	6	30