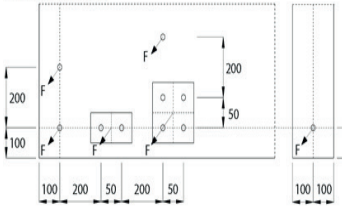
Highest permissible loads in concrete C20/25

Multiple use for non-structural applications. Total safety factor as per ETAG 001 included (γ_M and γ_F). 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 performancedata	**Nail anchor steel, zink plated**			**ENA-M**	
				cracked/non-cracked concrete	
Effective anchorage depth		h_{ef}	[mm]	25	30
Approved loads (Picture 1)	C12/15	appr. F	[kN]	1,43[1)]	1,90[1)]
	C20/25 - C50/60	appr. F	[kN]	2,14[1)]	2,81[1)]
Approved loads (Picture 2)	C12/15	appr. F	[kN]	0,71[1)]	0,95[1)]
	C20/25 - C50/60	appr. F	[kN]	0,95[1)]	1,19[1)]
Approved bending moments		appr. M	[Nm]	7,3	7,3
Minimum thickness of concrete slab		h_{min}	[mm]	80	80
Installation parameters					
Drill hole diameter		d_o	[mm]	6	6
Diameter of clearance hole in the fixture		d_f	[mm]	7	7
Diameter nailhead			[mm]	-	-
Depth of drill hole		h_1	[mm]	35	40
Installation torque		$\leq T_{inst}$	[Nm]	-	-

[1)]When applying a shear load to anchor version ENA-M, shear load with lever arm must be proven.

Picture 1: maximum loads



Picture 2: minimum spacing and edge distance