Technical Sheet

FM 753 evo
Heavy Duty Wedge Anchor

Heavy-duty wedge anchor for the medium load range, in sizes M6 - M20 for anchoring in non-cracked concrete C20/25 - C50/60.





Features

Material

- Cold formed carbon steel body with special geometry clip

Benefits

- Wide range
- Easy installation
- Versatile
- Cold forged anchor body
- Increased thickness of three expander segments
- Six teeth and anti-slip ridge to prevent slip during tightening



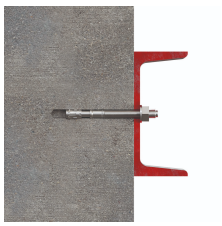




Applications

Applications

- Railings
- Metal and wood carpentry
- Facades







Suitable for

- Non-cracked concrete
- Solid stone





Fixation de structure bois



Zoom de la pointe



Steel frame structure anchoring

Technical Sheet

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Technical Data

Dimensions

Reference	Metallic fixings dimensions											Insta	
												Installation	
	NO	setting depth	[d0] [mm]	in fixture [df][mm]	box[stk]					[EV] [mm]	size[mm]	Min. hole depth [h1] [mm]	Embedmen depth[mm]

Dimensions
See full table online ➡️

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Design capacities - single anchor - no edge distances

Reference	Metallic fixings dimensions	Metallic fixings loads								
	Product Dimensions[mm]	Design capacity - Non-cracked concrete (3)[kN]								Design capacity - Cracked concrete
	Dimensions[mm]	Tension - NRd (1)				Shear - VRd (1-2)[kN]				Bending moment MRd[Nm]
		C20/25[kN]	C30/37[kN]	C40/50[kN]	C50/60[kN]	C20/25[kN]	C30/37[kN]	C40/50[kN]	C50/60[kN]	
75340B0807300	M8x73	8	8.3	8.5	8.7	7.9	7.9	7.9	7.9	21.5
75340B0808300	M8x83	8	8.3	8.5	8.7	7.9	7.9	7.9	7.9	21.5
75340B0809300	M8x93	8	8.3	8.5	8.7	7.9	7.9	7.9	7.9	21.5
75340B0810300	M8x103	8	8.3	8.5	8.7	7.9	7.9	7.9	7.9	21.5
75340B0811300	M8x113	8	8.3	8.5	8.7	7.9	7.9	7.9	7.9	21.5
75340B0813300	M8x133	8	8.3	8.5	8.7	7.9	7.9	7.9	7.9	21.5
75340B0816300	M8x163	8	8.3	8.5	8.7	7.9	7.9	7.9	7.9	21.5
75340B1007800	M10x78	11.6	14.2	16.4	18.3	11.6	11.6	11.6	11.6	37.3
75340B1008300	M10x83	11.6	14.2	16.4	18.3	11.6	11.6	11.6	11.6	37.3
75340B1009300	M10x93	11.6	14.2	16.4	18.3	11.6	11.6	11.6	11.6	37.3
75340B1010300	M10x103	11.6	14.2	16.4	18.3	11.6	11.6	11.6	11.6	37.3
75340B1011300	M10x113	11.6	14.2	16.4	18.3	11.6	11.6	11.6	11.6	37.3
75340B1012300	M10x123	11.6	14.2	16.4	18.3	11.6	11.6	11.6	11.6	37.3
75340B1014300	M10x143	11.6	14.2	16.4	18.3	11.6	11.6	11.6	11.6	37.3
75340B1017300	M10x173	11.6	14.2	16.4	18.3	11.6	11.6	11.6	11.6	37.3
75340B1210400	M12x104	17.2	20.8	23.9	26.7	20.1	20.1	20.1	20.1	65.3
75340B1210900	M12x109	17.2	20.8	23.9	26.7	20.1	20.1	20.1	20.1	65.3
75340B1211900	M12x119	17.2	20.8	23.9	26.7	20.1	20.1	20.1	20.1	65.3
75340B1212900	M12x129	17.2	20.8	23.9	26.7	20.1	20.1	20.1	20.1	65.3
75340B1213900	M12x139	17.2	20.8	23.9	26.7	20.1	20.1	20.1	20.1	65.3
75340B1214900	M12x149	17.2	20.8	23.9	26.7	20.1	20.1	20.1	20.1	65.3
75340B1217900	M12x179	17.2	20.8	23.9	26.7	20.1	20.1	20.1	20.1	65.3
75340B1219900	M12x199	17.2	20.8	23.9	26.7	20.1	20.1	20.1	20.1	65.3
75340B1221900	M12x219	17.2	20.8	23.9	26.7	20.1	20.1	20.1	20.1	65.3
75340B1223900	M12x239	17.2	20.8	23.9	26.7	20.1	20.1	20.1	20.1	65.3
75340B1225900	M12x259	17.2	20.8	23.9	26.7	20.1	20.1	20.1	20.1	65.3
75340B1611000	M16x110*/**	23.5	27	29.8	32.4	37.5	37.5	37.5	37.5	155.3
75340B1613100	M16x131	23.5	27	29.8	32.4	37.5	37.5	37.5	37.5	155.3
75340B1615100	M16x151	23.5	27	29.8	32.4	37.5	37.5	37.5	37.5	155.3
75340B1617100	M16x171	23.5	27	29.8	32.4	37.5	37.5	37.5	37.5	155.3
75340B1620100	M16x201	23.5	27	29.8	32.4	37.5	37.5	37.5	37.5	155.3
75340B1622100	M16x221	23.5	27	29.8	32.4	37.5	37.5	37.5	37.5	155.3
75340B1624100	M16x241	23.5	27	29.8	32.4	37.5	37.5	37.5	37.5	155.3
75340B1626100	M16x261	23.5	27	29.8	32.4	37.5	37.5	37.5	37.5	155.3

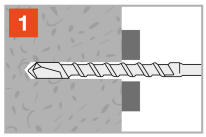
Technical Sheet

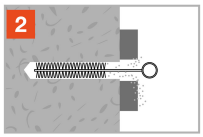
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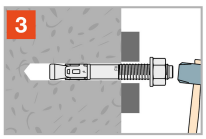
Reference	Metallic fixings dimensions	Metallic fixings loads								
	Product Dimensions[mm]	Design capacity - Non-cracked concrete (3)[kN]								Design capacity - Cracked concrete
	Dimensions[mm]	Tension - NRd (1)				Shear - VRd (1-2)[kN]				Bending moment MRd[Nm]
		C20/25[kN]	C30/37[kN]	C40/50[kN]	C50/60[kN]	C20/25[kN]	C30/37[kN]	C40/50[kN]	C50/60[kN]	

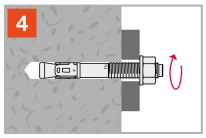
1. The design loads loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s). The loading figures are valid for unreinforced concrete and reinforced concrete with a rebar spacing s ≥ 15 cm (any diameter) or with a rebar spacing s ≥ 10 cm, if the rebar diameter is 10mm or smaller.
2. The figures for shear are based on a single anchor without influence of concrete edges. For anchorages close to edges (c ≤ max [10 hef; 60d]) the concrete edge failure shall be checked per ETAG 001, Annex C, design method A.
3. Concrete is considered non-cracked when the tensile stress within the concrete is\sigmaL +\sigmaR ≤ 0. In the absence of detailed verification\sigmaR = 3 N/mm² can be assumed (\sigmaL equals the tensile stress within the concrete induced by external loads, anchors loads included).

Installation









Spacing, Edge Distance and Member Thickness

Reference	Metallic fixings dimensions				Installation data						
	Product Dimensions[mm]			Other	Installation data			Spacing and edge distances - Rebar		Spacing and edge dis	
	Dim									cteristic cing(5) - N[mm]	Characteristic edge distance[mm]
75340B0807300										135	68
75340B0808300	M8x83	13	8	9	65	15	45	100	40	135	68
75340B0809300	M8x93	13	8	9	65	15	45	100	40	135	68

Spacing, Edge Distance and Member Thickness
See full table online ➡️

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