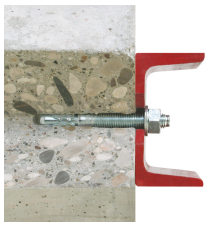
Technical Sheet

FM-753 3DG
Heavy Duty Wedge Anchor

Heavy-duty wedge anchor for the medium load range, in sizes M8 - M20 for anchoring in non-cracked concrete C20/25 - C50/60. With coating 3DG









Features

Material

- Steel
- Special anti-corrosion coating 3DG with matte finish
- Stainless steel A4 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

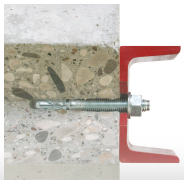
Suitable for

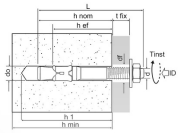
- Non-cracked concrete
- Solid stone

Technical Sheet

FM-753 3DG
Heavy Duty Wedge Anchor

Technical Data





Product dimensions

Product dimensions
See full table online ➡️

Reference	[tfix,max]	[tfix,max]	otvor průměr	otvor průměr	Min. setting	množství	označení výrobku	rozměry výrobku[mm]	závit

Technical Sheet

FM-753 3DG
Heavy Duty Wedge Anchor

Recommended capacities - single anchor - no edge distances

Reference	Metallic fixings rozměry		Metallic fixings loads								
	rozměry výrobku[mm]	označení výrobku	Recommended loads - neporušený beton								
	rozměry[mm]		Bending moment M_{rec}[Nm]	tah - N_{rec}[kN]				smyk - V_{rec}[kN]			
				Empf. Last in Beton C20/25 [kN] 3) [kN]	C30/37[kN]	C40/50[kN]	C50/60[kN]	C20/25[kN]	C30/37[kN]	C40/50[kN]	C50/60[kN]
75320C0813500	M8x135	FM-753 3DG	11.4	5.7	6.1	6.5	6.8	4.4	4.4	4.4	4.4
75320C0816500	M8x165	FM-753 3DG	11.4	5.7	6.1	6.5	6.8	4.4	4.4	4.4	4.4
75320C1017000	M10x170	FM-753 3DG	23.3	5.7	6.3	6.8	7.4	6.6	6.6	6.6	6.6
75320C1021000	M10x210	FM-753 3DG	23.3	5.7	6.3	6.8	7.4	6.6	6.6	6.6	6.6
75320C1218500	M12x185	FM-753 3DG	34.3	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6
75320C1220000	M12x200	FM-753 3DG	34.3	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6
75320C1222000	M12x220	FM-753 3DG	34.3	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6
75320C1224000	M12x240	FM-753 3DG	34.3	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6
75320C1225500	M12x255	FM-753 3DG	34.3	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6
75320C1228500	M12x285	FM-753 3DG	34.3	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6
75320C1230000	M12x300	FM-753 3DG	34.3	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6
75320C1232500	M12x325	FM-753 3DG	34.3	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6
75320C1621500	M16x215	FM-753 3DG	91.9	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3
75320C1623000	M16x230	FM-753 3DG	91.9	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3
75320C1625000	M16x250	FM-753 3DG	91.9	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3
75320C1627000	M16x270	FM-753 3DG	91.9	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3
75320C1632000	M16x320	FM-753 3DG	91.9	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3
75320C2028000	M20x280	FM-753 3DG	161	19.1	23.3	26.9	29.6	24.5	24.5	24.5	24.5

1) In case of interaction of tension and shear loads (lever arm) as well as in case of anchor groups and/or edge influence, a design according to ETAG 001, Annex C, Design Method A (Aug. 2010) or
CEN/TS 1992-4-4 shall be carried out taking into account the entire European Technical Assessment ETA-13/0367.
2) The load data take into account the partial safety factors of the resistances given in the European Technical Assessment ETA-13/0367 and a partial safety factor of the
The values given assume unreinforced or normally reinforced concrete with a spacing of the reinforcing bars s ≥ 15 cm or s ≥ 10 cm with a diameter of the reinforcing bars ds ≥ 15 cm.
rebar diameter ds ≤ 10 mm.

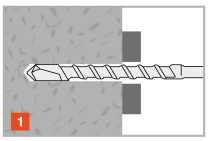
Technical Sheet

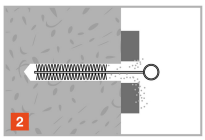
FM-753 3DG
Heavy Duty Wedge Anchor

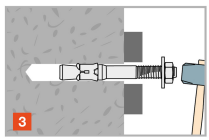
Technical Sheet

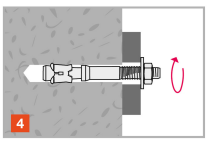
FM-753 3DG
Heavy Duty Wedge Anchor

Installation









Spacing, and Edge Distances

Reference	Metallic fixings rozměry		montážní údaje			
	rozměry výrobku[mm]	označení výrobku	rozteč and okraj distances			
	rozměry[mm]		Min. okraj vzdálenost[mm]	Min. rozteč[mm]	charakteristická rozteč(5) - Scr,N[mm]	charakteristická vzdálenost od okraje[mm]
75320C0813500	M8x135	FM-753 3DG	55	55	120	60
75320C0816500	M8x165	FM-753 3DG	55	55	120	60
75320C1017000	M10x170	FM-753 3DG	55	55	150	75
75320C1021000	M10x210	FM-753 3DG	55	55	150	75
75320C1218500	M12x185	FM-753 3DG	90	90	180	90
75320C1220000	M12x200	FM-753 3DG	90	90	180	90
75320C1222000	M12x220	FM-753 3DG	90	90	180	90
75320C1224000	M12x240	FM-753 3DG	90	90	180	90
75320C1225500	M12x255	FM-753 3DG	90	90	180	90
75320C1228500	M12x285	FM-753 3DG	90	90	180	90
75320C1230000	M12x300	FM-753 3DG	90	90	180	90
75320C1232500	M12x325	FM-753 3DG	90	90	180	90
75320C1621500	M16x215	FM-753 3DG	130	130	255	130
75320C1623000	M16x230	FM-753 3DG	130	130	255	130
75320C1625000	M16x250	FM-753 3DG	130	130	255	130
75320C1627000	M16x270	FM-753 3DG	130	130	255	130
75320C1632000	M16x320	FM-753 3DG	130	130	255	130
75320C2028000	M20x280	FM-753 3DG	145	200	290	145

* Not included in the approval

Technical Sheet

FM-753 3DG
Heavy Duty Wedge Anchor

Installation data

Reference	Metallic fixings rozměry			montážní údaje					
	rozměry výrobku[mm]		označení výrobku	montážní údaje					rozteč and okraj distances
	rozměry[mm]	Wrench size[mm]		Ø drilling otvor[mm]	Min. drill hloubka[mm]	Ø drilling fixture[mm]	montáž torque[Nm]	Embedment hloubka[mm]	Min. podpora tloušťka[mm]
75320C0813500	M8x135	13	FM-753 3DG	8	60	9	15	40	100
75320C0816500	M8x165	13	FM-753 3DG	8	60	9	15	40	100
75320C1017000	M10x170	17	FM-753 3DG	10	70	12	25	50	100
75320C1021000	M10x210	17	FM-753 3DG	10	70	12	25	50	100
75320C1218500	M12x185	19	FM-753 3DG	12	85	14	50	60	120
75320C1220000	M12x200	19	FM-753 3DG	12	85	14	50	60	120
75320C1222000	M12x220	19	FM-753 3DG	12	85	14	50	60	120
75320C1224000	M12x240	19	FM-753 3DG	12	85	14	50	60	120
75320C1225500	M12x255	19	FM-753 3DG	12	85	14	50	60	120
75320C1228500	M12x285	19	FM-753 3DG	12	85	14	50	60	120
75320C1230000	M12x300	19	FM-753 3DG	12	85	14	50	60	120
75320C1232500	M12x325	19	FM-753 3DG	12	85	14	50	60	120
75320C1621500	M16x215	24	FM-753 3DG	16	115	18	100	85	170
75320C1623000	M16x230	24	FM-753 3DG	16	115	18	100	85	170
75320C1625000	M16x250	24	FM-753 3DG	16	115	18	100	85	170
75320C1627000	M16x270	24	FM-753 3DG	16	115	18	100	85	170
75320C1632000	M16x320	24	FM-753 3DG	16	115	18	100	85	170
75320C2028000	M20x280	30	FM-753 3DG	20	130	22	160	95	200

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