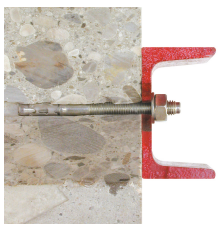
Technical Sheet

FM-753 CRACK 3DG
Heavy Duty Wedge Anchor with Seismic Certification

Heavy-duty wedge anchor for the medium load range in sizes M8 - M16 for anchoring in cracked and non-cracked concrete C20/25 - C50/60, as well as for seismic actions of the performance category C1/C2.







Features

Material

- Hardened and tempered anchor body grade 9.8
- Special anti-corrosion coating 3DG with glossy finish
- Stainless steel A4 clip

Benefits

- Dynamic and seismic loads
- Seismic performance C1 and C2
- Immediate expansion
- Increased thickness of three expander segments
- Nine gripping dents for greater adhesion to hole wall
- Fire resistance R120

Applications

Applications

- Structural fixings
- Steel constructions
- Seismic applications

Suitable for

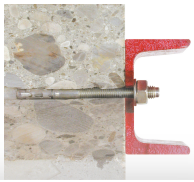
- Cracked concrete
- Non-cracked concrete
- Solid stone

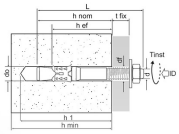
Technical Sheet

FM-753 CRACK 3DG

Heavy Duty Wedge Anchor with Seismic Certification

Technical Data





Product dimensions

Product dimensions
See full table online ➡️

Technical Sheet

FM-753 CRACK 3DG

Heavy Duty Wedge Anchor with Seismic Certification

Recommended loads / Non-cracked-concrete / for single anchors / with no edge distances or spacings

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]
75350B0806800	M8x68	FM-753 CRACK 3DG	15.9	4.3	5.2	6.1	6.7	6.1	6.1	6.1	6.1
75350B0807500	M8x75	FM-753 CRACK 3DG	15.9	4.3	5.2	6.1	6.7	6.1	6.1	6.1	6.1
75350B0809000	M8x90	FM-753 CRACK 3DG	15.9	4.3	5.2	6.1	6.7	6.1	6.1	6.1	6.1
75350B0811500	M8x115	FM-753 CRACK 3DG	15.9	4.3	5.2	6.1	6.7	6.1	6.1	6.1	6.1
75350B0813500	M8x135	FM-753 CRACK 3DG	15.9	4.3	5.2	6.1	6.7	6.1	6.1	6.1	6.1
75350B0816500	M8x165	FM-753 CRACK 3DG	15.9	4.3	5.2	6.1	6.7	6.1	6.1	6.1	6.1
75350B1009000	M10x90	FM-753 CRACK 3DG	31.9	7.6	9.3	10.7	11.8	11.5	11.5	11.5	11.5
75350B1010500	M10x105	FM-753 CRACK 3DG	31.9	7.6	9.3	10.7	11.8	11.5	11.5	11.5	11.5
75350B1011500	M10x115	FM-753 CRACK 3DG	31.9	7.6	9.3	10.7	11.8	11.5	11.5	11.5	11.5
75350B1013500	M10x135	FM-753 CRACK 3DG	31.9	7.6	9.3	10.7	11.8	11.5	11.5	11.5	11.5
75350B1015500	M10x155	FM-753 CRACK 3DG	31.9	7.6	9.3	10.7	11.8	11.5	11.5	11.5	11.5
75350B1018500	M10x185	FM-753 CRACK 3DG	31.9	7.6	9.3	10.7	11.8	11.5	11.5	11.5	11.5

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 EN 1992-4 (seismic actions - Annex C / fire action - Annex D) shall be carried out taking into account the entire European Technical Assessment ETA-09/0056.
2) The load data take into account the partial safety factors of the resistances given in the European Technical Assessment (ETA) and a partial safety factor of the actions
of $\gamma F = 1.4$. The values given assume unreinforced or normally reinforced concrete with a spacing of the reinforcing bars $s \geq 15$ cm or $s \geq 10$ cm at a
rebar diameter $d_s \leq 10$ mm is assumed.

Technical Sheet

FM-753 CRACK 3DG

Heavy Duty Wedge Anchor with Seismic Certification

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]
75350B1211000	M12x110	FM-753 CRACK 3DG	56.1	9.5	11.6	13.4	14.7	16.1	16.1	16.1	16.1
75350B1212000	M12x120	FM-753 CRACK 3DG	56.1	9.5	11.6	13.4	14.7	16.1	16.1	16.1	16.1
75350B1214500	M12x145	FM-753 CRACK 3DG	56.1	9.5	11.6	13.4	14.7	16.1	16.1	16.1	16.1
75350B1217000	M12x170	FM-753 CRACK 3DG	56.1	9.5	11.6	13.4	14.7	16.1	16.1	16.1	16.1
75350B1220000	M12x200	FM-753 CRACK 3DG	56.1	9.5	11.6	13.4	14.7	16.1	16.1	16.1	16.1
75350B1613000	M16x130	FM-753 CRACK 3DG	142.4	16.7	20.4	23.5	25.9	31.6	31.6	31.6	31.6
75350B1615000	M16x150	FM-753 CRACK 3DG	142.4	16.7	20.4	23.5	25.9	31.6	31.6	31.6	31.6
75350B1618500	M16x185	FM-753 CRACK 3DG	142.4	16.7	20.4	23.5	25.9	31.6	31.6	31.6	31.6
75350B1622000	M16x220	FM-753 CRACK 3DG	142.4	16.7	20.4	23.5	25.9	31.6	31.6	31.6	31.6

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 EN 1992-4 (seismic actions - Annex C / fire action - Annex D) shall be carried out taking into account the entire European Technical Assessment ETA-09/0056.
2) The load data take into account the partial safety factors of the resistances given in the European Technical Assessment (ETA) and a partial safety factor of the actions
of γF = 1.4. The values given assume unreinforced or normally reinforced concrete with a spacing of the reinforcing bars s ≥ 15 cm or s ≥ 10 cm at a
rebar diameter ds ≤ 10 mm is assumed.

Recommended loads / Cracked-concrete / for single anchors / with no edge distances or spacings

Reference	Metallic fixings rozměry	Metallic fixings loads
75350B0806800	M... 3DG	4.9 4.9

Recommended loads / Cracked-concrete / for single anchors / with no edge distances or spacings

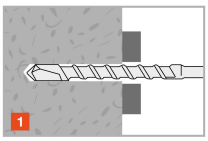
See full table online ➡️

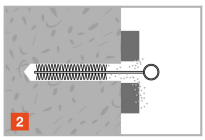
Technical Sheet

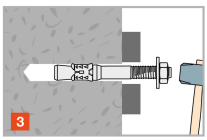
FM-753 CRACK 3DG

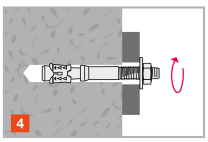
Heavy Duty Wedge Anchor with Seismic Certification

Installation









Spacings 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 vzdálenost od okraje[mm]	charakteristická rozteč(5) - Scr,N[mm]
75350B0806800	M8x68	FM-753 CRACK 3DG	50	50	72	144
75350B0807500	M8x75	FM-753 CRACK 3DG	50	50	72	144
75350B0809000	M8x90	FM-753 CRACK 3DG	50	50	72	144
75350B0811500	M8x115	FM-753 CRACK 3DG	50	50	72	144
75350B0813500	M8x135	FM-753 CRACK 3DG	50	50	72	144
75350B0816500	M8x165	FM-753 CRACK 3DG	50	50	72	144
75350B1009000	M10x90	FM-753 CRACK 3DG	60	60	90	180
75350B1010500	M10x105	FM-753 CRACK 3DG	60	60	90	180
75350B1011500	M10x115	FM-753 CRACK 3DG	60	60	90	180
75350B1013500	M10x135	FM-753 CRACK 3DG	60	60	90	180
75350B1015500	M10x155	FM-753 CRACK 3DG	60	60	90	180
75350B1018500	M10x185	FM-753 CRACK 3DG	60	60	90	180
75350B1211000	M12x110	FM-753 CRACK 3DG	70	70	110	220
75350B1212000	M12x120	FM-753 CRACK 3DG	70	70	110	220
75350B1214500	M12x145	FM-753 CRACK 3DG	70	70	110	220
75350B1217000	M12x170	FM-753 CRACK 3DG	70	70	110	220
75350B1220000	M12x200	FM-753 CRACK 3DG	70	70	110	220
75350B1613000	M16x130	FM-753 CRACK 3DG	85	80	120	258
75350B1615000	M16x150	FM-753 CRACK 3DG	85	80	120	258
75350B1618500	M16x185	FM-753 CRACK 3DG	85	80	120	258
75350B1622000	M16x220	FM-753 CRACK 3DG	85	80	120	258

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