

FM 753 evo

Gennemstiksanker

Det nye FM 753 evo anker er et heavy duty ekspansionsanker til medium-høje laster, i str. M6-M20 til fastgørelse i urevnet beton C20/20 – C50/60.

Egenskaber

Materiale

- Koldformet kulstofstålhus med speciel geometrisk klips

Fordele

- Optimeret geometri for høj Styrke
- Clips med modhager for høj styrke og sikkerhed
- Højstyrkestål for top ydelse
- Overfladebehandlet for optimal funktion af clip/kegle
- Bredt udvalg af certificerede ankre

Anvendelse

Anvendelsesområder

Gelændere

Metal- og træarbejde

Fasader

Egnet til:

- Urevnet beton
- Sten



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Teknisk data

Dimensions

Art. nr.	Product reference	Type [d x L]	ID ¹⁾	Thread length	Fastgørelsesdybde [t _{fix}]	Hole diameter [d ₀]	Minimum huldybde [h ₁]	Indlejringsdybde [h _{ef}]	Huldiameter i befæstelseselement [d _f]	u
75340B0604800	FM 753 evo	M6x48*/**	A	18	3	6	45	30	7	
75340B0606500	FM 753 evo	M6x65	B	30	10	6	55	40		
75340B0811300	FM 753 evo	M8x113	G	60	50	8	65	45	9	
75340B1006300	FM 753 evo	M10x63*/**	A	25	5	10	55	35	12	
75340B1008300	FM 753 evo	M10x83	C	40	10	10	70	50		
75340B1010300	FM 753 evo	M10x103	E	50	30	10	70	50		
75340B1012300	FM 753 evo	M10x123	G	60	50	10	70	50		
75340B1208500	FM 753 evo	M12x85*/**	A	40	5	12	75	50	14	
75340B1210900	FM 753 evo	M12x109	C	60	10	12	90	65		
75340B1212900	FM 753 evo	M12x129	E	70	30	12	90	65		
75340B1214900	FM 753 evo	M12x149	G	100	50	12	90	65		
75340B1219900	FM 753 evo	M12x199	I	110	100	12	90	65		
75340B1611000	FM 753 evo	M16x110*/**	A	50	15	16	89	59	18	
75340B1615100	FM 753 evo	M16x151	C	80	30	16	110	80		
75340B1617100	FM 753 evo	M16x171	D	80	50	16	110	80		
75340B1622100	FM 753 evo	M16x221	F	100	100	16	110	80		

* Anchors with reduced embedment depths

** Not covered by CE certification

¹⁾ Ident. mark, product length

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Designkapaciteter - enkelt forankring - ingen kantafstande

Art. nr.	Designkapacitet - Ikke-revnet beton ⁽³⁾ [kN]									Bøjningsmoment MRd [Nm]
	Type [d x L]	Spænding - NRd ⁽¹⁾				Skæring - VRd ⁽¹⁻²⁾ [kN]				
		C20/25	C30/37	C40/50	C50/60	C20/25	C30/37	C40/50	C50/60	
75340B0604800	M6x48*/**	4	4	4	4.1	5.1	5.1	5.1	5.1	7.3
75340B0606500	M6x65	4	4	4	4.1	5.1	5.1	5.1	5.1	7.3
75340B0811300	M8x113	8	8.3	8.5	8.7	7.9	7.9	7.9	7.9	21.5
75340B1006300	M10x63*/**	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
75340B1010300	M10x103	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
75340B1208500	M12x85*/**	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
75340B1212900	M12x129	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
75340B1219900	M12x199	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
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
75340B1622100	M16x221	23.5	27	29.8	32.4	37.5	37.5	37.5	37.5	155.3

1. The design 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 $s \geq 15$ cm (any diameter) or with a rebar spacing $s \geq 10$ 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 ($c \leq \max [10 \text{ hef}; 60d]$) 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 $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3 \text{ N/mm}^2$ can be assumed (σ_L equals the tensile stress within the concrete induced by external loads, anchors loads included).

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Anbefalede kapaciteter - enkeltanker - ingen kantafstande

Art. nr.	Anbefalet kapacitet - Ikke-revnet beton									
	Type [d x L]	Spænding - Nrec ⁽¹⁻²⁾ [kN]				Skæring - Vrec ⁽¹⁻³⁾ [kN]				Bøjningsmoment Mrec ⁽¹⁻⁶⁾ [Nm]
		C20/25	C30/37	C40/50	C50/60	C20/25	C30/37	C40/50	C50/60	
75340B0604800	M6x48*/**	2.2	2.9	2.9	2.9	2.9	3.6	3.6	3.6	3.6
75340B0606500	M6x65	2.2	2.9	2.9	2.9	2.9	3.6	3.6	3.6	3.6
75340B0811300	M8x113	2.4	5.7	5.9	6.1	6.2	5.6	5.6	5.6	5.6
75340B1006300	M10x63*/**	4.7	8.3	10.1	11.7	13.1	8.3	8.3	8.3	8.3
75340B1008300	M10x83	4.7	8.3	10.1	11.7	13.1	8.3	8.3	8.3	8.3
75340B1010300	M10x103	4.7	8.3	10.1	11.7	13.1	8.3	8.3	8.3	8.3
75340B1012300	M10x123	4.7	8.3	10.1	11.7	13.1	8.3	8.3	8.3	8.3
75340B1208500	M12x85*/**	7.2	12.3	14.9	17.1	19.1	14.4	14.4	14.4	14.4
75340B1210900	M12x109	7.2	12.3	14.9	17.1	19.1	14.4	14.4	14.4	14.4
75340B1212900	M12x129	7.2	12.3	14.9	17.1	19.1	14.4	14.4	14.4	14.4
75340B1214900	M12x149	7.2	12.3	14.9	17.1	19.1	14.4	14.4	14.4	14.4
75340B1219900	M12x199	7.2	12.3	14.9	17.1	19.1	14.4	14.4	14.4	14.4
75340B1611000	M16x110*/**	9.2	16.8	19.3	21.3	23.1	26.8	26.8	26.8	26.8
75340B1615100	M16x151	9.2	16.8	19.3	21.3	23.1	26.8	26.8	26.8	26.8
75340B1617100	M16x171	9.2	16.8	19.3	21.3	23.1	26.8	26.8	26.8	26.8
75340B1622100	M16x221	9.2	16.8	19.3	21.3	23.1	26.8	26.8	26.8	26.8

1. The recommended loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s) and with a partial safety factor for actions of $\gamma_F=1.4$. The loading figures are valid for unreinforced concrete and reinforced concrete with a rebar spacing $s \geq 15$ cm (any diameter) or with a rebar spacing $s \geq 10$ cm, if the rebar diameter is 10 mm or smaller.

2. The figures for shear are based on a single anchor without influence of concrete edges. For anchorages close to edges ($c \leq \max [10 \text{ hef}; 60d]$) 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 $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3 \text{ N/mm}^2$ can be assumed (σ_L equals the tensile stress within the concrete induced by external loads, anchors loads included).

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Designkapaciteter – enkeltanker – ingen kantafstande – reduceret indstøbningsdybde

Art. nr.	Type [d x L]	Reduceret indstøbningsdybde [$h_{ef,r}$]	Karakteristisk afstand for $h_{ef,r}$ ⁽⁵⁾ [$S_{cr,red}$] [mm]	Karakteristisk kantafstand for $h_{ef,r}$ [$C_{cr,red}$] [mm]	Min. afstand for $h_{ef,r}$ [$S_{min,red}$] [mm]	Min. kantafstand for $h_{ef,r}$ [$C_{min,red}$]	Designbelastninger - Træk & Skæring - N_{Rd} [kN]
75340B0604800	M6x48*/**	30	90	45	30	40	5.2
75340B0606500	M6x65	30	90	45	30	40	5.2
75340B0811300	M8x113	30	90	45	40	40	13.4
75340B1006300	M10x63*/**	35	105	55	50	50	26.6
75340B1008300	M10x83	35	105	55	50	50	26.6
75340B1010300	M10x103	35	105	55	50	50	26.6
75340B1012300	M10x123	35	105	55	50	50	26.6
75340B1208500	M12x85*/**	50	150	75	70	70	46.6
75340B1210900	M12x109	50	150	75	70	70	46.6
75340B1212900	M12x129	50	150	75	70	70	46.6
75340B1214900	M12x149	50	150	75	70	70	46.6
75340B1219900	M12x199	50	150	75	70	70	46.6
75340B1611000	M16x110*/**	59	180	90	90	90	110.9
75340B1615100	M16x151	59	180	90	90	90	110.9
75340B1617100	M16x171	59	180	90	90	90	110.9
75340B1622100	M16x221	59	180	90	90	90	110.9

Shear value valid with distance from the edge $c > 10 \times h_{ef,r}$

Anbefalede kapaciteter - enkeltanker - ingen kantafstande - reduceret indstøbningsdybde

Art. nr.	Type [d x L]	Reduceret indstøbningsdybde [$h_{ef,r}$]	Karakteristisk afstand for $h_{ef,r}$ ⁽⁵⁾ [$S_{cr,red}$] [mm]	Karakteristisk kantafstand for $h_{ef,r}$ [$C_{cr,red}$] [mm]	Min. afstand for $h_{ef,r}$ [$S_{min,red}$] [mm]	Min. kantafstand for $h_{ef,r}$ [$C_{min,red}$]	Anbefalede belastninger - Træk og forskydnings - N_{rec} [kN]
75340B0604800	M6x48*/**	30	90	45	30	40	1.6
75340B0606500	M6x65	30	90	45	30	40	1.6
75340B0811300	M8x113	30	90	45	40	40	1.7
75340B1006300	M10x63*/**	35	105	55	50	50	3.4
75340B1008300	M10x83	35	105	55	50	50	3.4
75340B1010300	M10x103	35	105	55	50	50	3.4
75340B1012300	M10x123	35	105	55	50	50	3.4
75340B1208500	M12x85*/**	50	150	75	70	70	5.2
75340B1210900	M12x109	50	150	75	70	70	5.2
75340B1212900	M12x129	50	150	75	70	70	5.2
75340B1214900	M12x149	50	150	75	70	70	5.2
75340B1219900	M12x199	50	150	75	70	70	5.2
75340B1611000	M16x110*/**	59	180	90	90	90	6.5
75340B1615100	M16x151	59	180	90	90	90	6.5
75340B1617100	M16x171	59	180	90	90	90	6.5
75340B1622100	M16x221	59	180	90	90	90	6.5

The recommended loads N , V and F derive from the mean ultimate loads and are inclusive of the total safety factor $\gamma=4$ (shear $\gamma=3$).

Shear value valid with distance from the edge $c > 10 \times h_{ef,r}$

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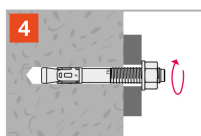
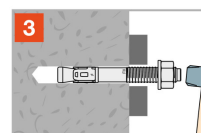
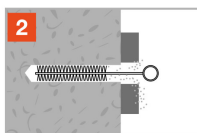
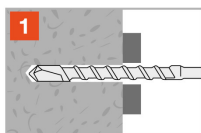
Produktdimension - Gør-det-selv

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Montering



Spacing, Edge Distance and Member Thickness

Art. nr.	Type [d x L]	Hole diameter [d ₀]	Minimum huldybde [h ₁]	Huldiameter i befæstelseselement [d _f]	Skruenøgle [SW]	Drejemoment [T _{inst}]	Indlejringsdybde [h _{ef}]	Min. understøttelsestyd
75340B0604800	M6x48*/**	6	45	7	10	8	30	90
75340B0606500	M6x65	6	55	7	10	8	40	100
75340B0811300	M8x113	8	65	9	13	15	45	100
75340B1006300	M10x63*/**	10	55	12	17	30	35	90
75340B1008300	M10x83	10	70	12	17	30	50	100
75340B1010300	M10x103	10	70	12	17	30	50	100
75340B1012300	M10x123	10	70	12	17	30	50	100
75340B1208500	M12x85*/**	12	75	14	19	50	50	120
75340B1210900	M12x109	12	90	14	19	50	65	130
75340B1212900	M12x129	12	90	14	19	50	65	130
75340B1214900	M12x149	12	90	14	19	50	65	130
75340B1219900	M12x199	12	90	14	19	50	65	130
75340B1611000	M16x110*/**	16	89	18	24	100	59	140
75340B1615100	M16x151	16	110	18	24	100	80	160
75340B1617100	M16x171	16	110	18	24	100	80	160
75340B1622100	M16x221	16	110	18	24	100	80	160

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