

# Technical data sheet

**FRUL  
SIDER**

**SIMPSON  
StrongTie**

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





FM-753 3DG  
**Heavy Duty Wedge Anchor**



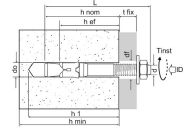
## Technical Data

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## Heavy Duty Wedge Anchor



### Product dimensions

References	Product Reference	Dimensions [ØxL] [mm]	Thread length	Fixture thickness [t <sub>fix,max</sub> ] with standard setting depth [h <sub>ef,STD</sub> ] [mm]	Fixture thickness [t <sub>fix,max</sub> ] with reduced setting depth [h <sub>ef,RED</sub> ] [mm]	Hole diameter in fixture [d <sub>f</sub> ] [mm]	Hole diameter [d <sub>o</sub> ] x depth [h <sub>1</sub> ] in substrate [mm]	Min. support thickness [h <sub>min</sub> ] [mm]	Min. setting depth [h <sub>ef</sub> ] [mm]	Installation torque [T <sub>inst</sub> ] [Nm]	Qty per box	Qty per outer box
75320C0604500	FM-753 3DG	M6x45*	20	-	3	7	6x45	100	30	6	200	2000
75320C0606500		M6x65	40	15	(20)	7	6x50	100	35	6	100	1000
75320C0608500		M6x85	60	35	(40)	7	6x50	100	35	6	100	1000
75320C0610000		M6x100	60	50	(55)	7	6x50	100	35	6	50	500
75320C0805000		M8x50*	23	-	5	9	8x50	100	30	15	100	1000
75320C0806500		M8x65	38	7	(15)	9	8x60	100	40	15	100	1000
75320C0807500		M8x75	48	15	(25)	9	8x60	100	40	15	100	400
75320C0809000		M8x90	63	30	(40)	9	8x60	100	40	15	100	400
75320C0811500		M8x115	83	55	(65)	9	8x60	100	40	15	100	400
75320C0813500		M8x135	88	75	(85)	9	8x60	100	40	15	100	400
75320C0816500		M8x165	88	105	(115)	9	8x60	100	40	15	50	200
75320C1006000		M10x60*	28	-	5	12	10x55	100	35	25	50	500
75320C1007500		M10x75	43	5	(20)	12	10x70	100	50	25	50	500
75320C1009000		M10x90	55	20	(35)	12	10x70	100	50	25	50	200
75320C1010000		M10x100	60	30	(45)	12	10x70	100	50	25	50	200
75320C1012000		M10x120	85	50	(65)	12	10x70	100	50	25	50	200
75320C1014500		M10x145	85	75	(90)	12	10x70	100	50	25	50	200
75320C1017000		M10x170	85	100	(115)	12	10x70	100	50	25	25	100
75320C1021000		M10x210	85	140	(155)	12	10x70	100	50	25	25	100
75320C1208000		M12x80*	40	-	7	14	12x70	100	45	50	50	200
75320C1210000		M12x100	58	10	(25)	14	12x85	120	60	50	50	200
75320C1211000		M12x110	68	20	(35)	14	12x85	120	60	50	50	200
75320C1213500		M12x135	93	45	(60)	14	12x85	120	60	50	25	100
75320C1216000		M12x160	93	70	(85)	14	12x85	120	60	50	25	100
75320C1218500		M12x185	93	100	(115)	14	12x85	120	60	50	25	100
75320C1220000		M12x200	93	115	(130)	14	12x85	120	60	50	20	80
75320C1222000		M12x220	93	135	(150)	14	12x85	120	60	50	20	80
75320C1224000		M12x240	93	155	(170)	14	12x85	120	60	50	20	80
75320C1225500		M12x255	93	170	(185)	14	12x85	120	60	50	20	80
75320C1228500		M12x285	93	200	(215)	14	12x85	120	60	50	20	80
75320C1230000		M12x300	93	215	(230)	14	12x85	120	60	50	20	80
75320C1232500		M12x325	93	240	(255)	14	12x85	120	60	50	20	80
75320C1611000	M16x110*	53	-	15	18	16x95	130	65	100	20	80	
75320C1612500	M16x125	68	10	(30)	18	16x115	170	85	100	20	80	
75320C1614500	M16x145	88	30	(50)	18	16x115	170	85	100	20	80	
75320C1617500	M16x175	88	60	(80)	18	16x115	170	85	100	20	60	
75320C1621500	M16x215	88	100	(120)	18	16x115	170	85	100	15	40	
75320C1623000	M16x230	88	115	(135)	18	16x115	170	85	100	10	40	

\*Short series with reduced embedment depth

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## Heavy Duty Wedge Anchor

References	Product Reference	Dimensions [ØxL] [mm]	Thread length	Fixture thickness [t <sub>fix,max</sub> ] with standard setting depth [h <sub>ef,STD</sub> ] [mm]	Fixture thickness [t <sub>fix,max</sub> ] with reduced setting depth [h <sub>ef,RED</sub> ] [mm]	Hole diameter in fixture [d <sub>f</sub> ] [mm]	Hole diameter [d <sub>o</sub> ] x depth [h <sub>i</sub> ] in substrate [mm]	Min. support thickness [h <sub>min</sub> ] [mm]	Min. setting depth [h <sub>ef</sub> ] [mm]	Installation torque [T <sub>inst</sub> ] [Nm]	Qty per box	Qty per outer box
75320C1625000		M16x250	88	135	(155)	18	16x115	170	85	100	10	40
75320C1627000		M16x270	88	155	(175)	18	16x115	170	85	100	10	40
75320C1632000		M16x320	88	205	(225)	18	16x115	170	85	100	10	40
75320C2017000		M20x170	60	30	-	22	20x130	200	95	160	10	40
75320C2021500		M20x215	60	75	-	22	20x130	200	95	160	10	40
75320C2028000		M20x280	60	140	-	22	20x130	200	95	160	10	40

*\*Short series with reduced embedment depth*

## FM-753 3DG Heavy Duty Wedge Anchor

Design capacities - single anchor - no edge distances

References	Dimensions [ØxL] [mm]	Product Reference	Design capacities - single anchor - no edge distances								Bending moment MRd [Nm]
			Design capacity - Non-cracked concrete (3)								
			Tension - NRd (1)				Shear - VRd (1-2)				
			C20/25 [kN]	C30/37 [kN]	C40/50 [kN]	C50/60 [kN]	C20/25 [kN]	C30/37 [kN]	C40/50 [kN]	C50/60 [kN]	
75320C0604500	M6x45*	FM-753 3DG	3.3	-	-	-	4.3	-	-	-	-
75320C0606500	M6x65	FM-753 3DG	4	-	-	-	4.3	-	-	-	-
75320C0608500	M6x85	FM-753 3DG	4	-	-	-	4.3	-	-	-	-
75320C0610000	M6x100	FM-753 3DG	4	-	-	-	4.3	-	-	-	-
75320C0805000	M8x50*	FM-753 3DG	4	-	-	-	4.3	-	-	-	-
75320C0806500	M8x65	FM-753 3DG	8	-	-	-	5.4	-	-	-	-
75320C0807500	M8x75	FM-753 3DG	8	-	-	-	6.1	-	-	-	-
75320C0809000	M8x90	FM-753 3DG	8	-	-	-	6.1	-	-	-	-
75320C0811500	M8x115	FM-753 3DG	8	-	-	-	6.1	-	-	-	-
75320C0813500	M8x135	FM-753 3DG	8	-	-	-	6.1	-	-	-	-
75320C0816500	M8x165	FM-753 3DG	8	-	-	-	6.1	-	-	-	-
75320C1006000	M10x60*	FM-753 3DG	4	-	-	-	8.3	-	-	-	-
75320C1007500	M10x75	FM-753 3DG	8	-	-	-	9.3	-	-	-	-
75320C1009000	M10x90	FM-753 3DG	8	-	-	-	9.3	-	-	-	-
75320C1010000	M10x100	FM-753 3DG	8	-	-	-	9.3	-	-	-	-
75320C1012000	M10x120	FM-753 3DG	8	-	-	-	9.3	-	-	-	-
75320C1014500	M10x145	FM-753 3DG	8	-	-	-	9.3	-	-	-	-
75320C1017000	M10x170	FM-753 3DG	8	-	-	-	9.3	-	-	-	-
75320C1021000	M10x210	FM-753 3DG	8	-	-	-	9.3	-	-	-	-
75320C1208000	M12x80*	FM-753 3DG	8	-	-	-	9.9	-	-	-	-
75320C1210000	M12x100	FM-753 3DG	15.2	-	-	-	13.4	-	-	-	-
75320C1211000	M12x110	FM-753 3DG	15.2	-	-	-	13.4	-	-	-	-
75320C1213500	M12x135	FM-753 3DG	15.2	-	-	-	13.4	-	-	-	-
75320C1216000	M12x160	FM-753 3DG	15.2	-	-	-	13.4	-	-	-	-
75320C1218500	M12x185	FM-753 3DG	15.2	-	-	-	13.4	-	-	-	-
75320C1220000	M12x200	FM-753 3DG	15.2	-	-	-	13.4	-	-	-	-
75320C1222000	M12x220	FM-753 3DG	15.2	-	-	-	13.4	-	-	-	-
75320C1224000	M12x240	FM-753 3DG	15.2	-	-	-	13.4	-	-	-	-
75320C1225500	M12x255	FM-753 3DG	15.2	-	-	-	13.4	-	-	-	-
75320C1228500	M12x285	FM-753 3DG	15.2	-	-	-	13.4	-	-	-	-
75320C1230000	M12x300	FM-753 3DG	15.2	-	-	-	13.4	-	-	-	-
75320C1232500	M12x325	FM-753 3DG	15.2	-	-	-	13.4	-	-	-	-
75320C1611000	M16x110*	FM-753 3DG	17.2	-	-	-	28.4	-	-	-	-
75320C1612500	M16x125	FM-753 3DG	23.3	-	-	-	28.4	-	-	-	-

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 ( $\sigma_L$  equals the tensile stress within the concrete induced by external loads, anchors loads included).

\*Short series with reduced embedment depth

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## Heavy Duty Wedge Anchor

References	Dimensions [ØxL] [mm]	Product Reference	Design capacities - single anchor - no edge distances									
			Design capacity - Non-cracked concrete (3)									
			Tension - NRd (1)				Shear - VRd (1-2)				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]		
75320C1614500	M16x145	FM-753 3DG	23.3	-	-	-	28.4	-	-	-	-	
75320C1617500	M16x175	FM-753 3DG	23.3	-	-	-	28.4	-	-	-	-	
75320C1621500	M16x215	FM-753 3DG	23.3	-	-	-	28.4	-	-	-	-	
75320C1623000	M16x230	FM-753 3DG	23.3	-	-	-	28.4	-	-	-	-	
75320C1625000	M16x250	FM-753 3DG	23.3	-	-	-	28.4	-	-	-	-	
75320C1627000	M16x270	FM-753 3DG	23.3	-	-	-	28.4	-	-	-	-	
75320C1632000	M16x320	FM-753 3DG	23.3	-	-	-	28.4	-	-	-	-	
75320C2017000	M20x170	FM-753 3DG	26.7	-	-	-	34.3	-	-	-	-	
75320C2021500	M20x215	FM-753 3DG	26.7	-	-	-	34.3	-	-	-	-	
75320C2028000	M20x280	FM-753 3DG	26.7	-	-	-	34.3	-	-	-	-	

- 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.
  - 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.
  - 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 ( $\sigma_L$  equals the tensile stress within the concrete induced by external loads, anchors loads included).
- \*Short series with reduced embedment depth

## FM-753 3DG Heavy Duty Wedge Anchor

Recommended capacities - single anchor - no edge distances

References	Product Reference	Dimensions [ØxL] [mm]	Recommended loads - Non-cracked concrete								Bending moment $M_{zul}$ [Nm]
			Tension - $N_{zul}$				Shear - $V_{zul}$				
			C20/25 [kN]	C30/37 [kN]	C40/50 [kN]	C50/60 [kN]	C20/25 [kN]	C30/37 [kN]	C40/50 [kN]	C50/60 [kN]	
75320C0604500	FM-753 3DG	M6x45*	-	-	-	-	-	-	-	-	-
75320C0606500	FM-753 3DG	M6x65	-	-	-	-	-	-	-	-	-
75320C0608500	FM-753 3DG	M6x85	-	-	-	-	-	-	-	-	-
75320C0610000	FM-753 3DG	M6x100	-	-	-	-	-	-	-	-	-
75320C0805000	FM-753 3DG	M8x50*	-	-	-	-	-	-	-	-	-
75320C0806500	FM-753 3DG	M8x65	5.7	6.1	6.5	6.8	4.4	4.4	4.4	4.4	11.4
75320C0807500	FM-753 3DG	M8x75	5.7	6.1	6.5	6.8	4.4	4.4	4.4	4.4	11.4
75320C0809000	FM-753 3DG	M8x90	5.7	6.1	6.5	6.8	4.4	4.4	4.4	4.4	11.4
75320C0811500	FM-753 3DG	M8x115	5.7	6.1	6.5	6.8	4.4	4.4	4.4	4.4	11.4
75320C0813500	FM-753 3DG	M8x135	5.7	6.1	6.5	6.8	4.4	4.4	4.4	4.4	11.4
75320C0816500	FM-753 3DG	M8x165	5.7	6.1	6.5	6.8	4.4	4.4	4.4	4.4	11.4
75320C1006000	FM-753 3DG	M10x60*	-	-	-	-	-	-	-	-	-
75320C1007500	FM-753 3DG	M10x75	5.7	6.3	6.8	7.4	6.6	6.6	6.6	6.6	23.3
75320C1009000	FM-753 3DG	M10x90	5.7	6.3	6.8	7.4	6.6	6.6	6.6	6.6	23.3
75320C1010000	FM-753 3DG	M10x100	5.7	6.3	6.8	7.4	6.6	6.6	6.6	6.6	23.3
75320C1012000	FM-753 3DG	M10x120	5.7	6.3	6.8	7.4	6.6	6.6	6.6	6.6	23.3
75320C1014500	FM-753 3DG	M10x145	5.7	6.3	6.8	7.4	6.6	6.6	6.6	6.6	23.3
75320C1017000	FM-753 3DG	M10x170	5.7	6.3	6.8	7.4	6.6	6.6	6.6	6.6	23.3
75320C1021000	FM-753 3DG	M10x210	5.7	6.3	6.8	7.4	6.6	6.6	6.6	6.6	23.3
75320C1208000	FM-753 3DG	M12x80*	-	-	-	-	-	-	-	-	-
75320C1210000	FM-753 3DG	M12x100	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6	34.3
75320C1211000	FM-753 3DG	M12x110	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6	34.3
75320C1213500	FM-753 3DG	M12x135	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6	34.3
75320C1216000	FM-753 3DG	M12x160	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6	34.3
75320C1218500	FM-753 3DG	M12x185	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6	34.3
75320C1220000	FM-753 3DG	M12x200	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6	34.3
75320C1222000	FM-753 3DG	M12x220	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6	34.3
75320C1224000	FM-753 3DG	M12x240	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6	34.3
75320C1225500	FM-753 3DG	M12x255	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6	34.3
75320C1228500	FM-753 3DG	M12x285	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6	34.3
75320C1230000	FM-753 3DG	M12x300	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6	34.3
75320C1232500	FM-753 3DG	M12x325	11.2	12.3	13.4	14.6	9.6	9.6	9.6	9.6	34.3
75320C1611000	FM-753 3DG	M16x110*	-	-	-	-	-	-	-	-	-
75320C1612500	FM-753 3DG	M16x125	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3	91.9
75320C1614500	FM-753 3DG	M16x145	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3	91.9

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  $s \geq 15$  cm or  $s \geq 10$  cm with a diameter of the reinforcing bars  $d_s \geq 15$  cm.  
rebar diameter  $d_s \leq 10$  mm.

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## Heavy Duty Wedge Anchor

References	Product Reference	Dimensions [ØxL] [mm]	Recommended loads - Non-cracked concrete								Bending moment $M_{zul}$ [Nm]
			Tension - $N_{zul}$				Shear - $V_{zul}$				
			C20/25 [kN]	C30/37 [kN]	C40/50 [kN]	C50/60 [kN]	C20/25 [kN]	C30/37 [kN]	C40/50 [kN]	C50/60 [kN]	
75320C1617500	FM-753 3DG	M16x175	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3	91.9
75320C1621500	FM-753 3DG	M16x215	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3	91.9
75320C1623000	FM-753 3DG	M16x230	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3	91.9
75320C1625000	FM-753 3DG	M16x250	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3	91.9
75320C1627000	FM-753 3DG	M16x270	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3	91.9
75320C1632000	FM-753 3DG	M16x320	16.7	18.4	20	21.7	20.3	20.3	20.3	20.3	91.9
75320C2017000	FM-753 3DG	M20x170	19.1	23.3	26.9	29.6	24.5	24.5	24.5	24.5	161
75320C2021500	FM-753 3DG	M20x215	19.1	23.3	26.9	29.6	24.5	24.5	24.5	24.5	161
75320C2028000	FM-753 3DG	M20x280	19.1	23.3	26.9	29.6	24.5	24.5	24.5	24.5	161

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.

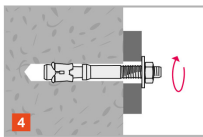
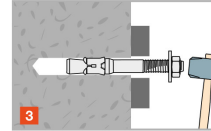
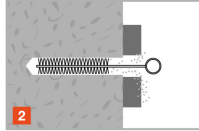
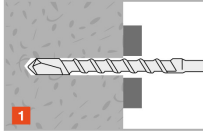
2) The load data take into account the partial safety factors of the resistances given in the European Technical Assessment ETA-13/0367 and a partial safety factor of the

The values given assume unreinforced or normally reinforced concrete with a spacing of the reinforcing bars  $s \geq 15$  cm or  $s \geq 10$  cm with a diameter of the reinforcing bars  $d_s \geq 15$  cm. rebar diameter  $d_s \leq 10$  mm.



FM-753 3DG  
Heavy Duty Wedge Anchor

## Installation



## FM-753 3DG Heavy Duty Wedge Anchor

### Spacing, and Edge Distances

References	Spacing and edge distances					
	Product Reference	Dimensions [ØxL] [mm]	Min. edge distance [cmin] [mm]	Min. spacing [smin] [mm]	Characteristic spacing(5) - Scr,N [scr,N] [mm]	Characteristic edge distance [ccr,N] [mm]
75320C0604500	FM-753 3DG	M6x45*	45	45	90	45
75320C0606500	FM-753 3DG	M6x65	50	50	105	53
75320C0608500	FM-753 3DG	M6x85	50	50	105	53
75320C0610000	FM-753 3DG	M6x100	50	50	105	53
75320C0805000	FM-753 3DG	M8x50*	45	45	90	45
75320C0806500	FM-753 3DG	M8x65	55	55	120	60
75320C0807500	FM-753 3DG	M8x75	55	55	120	60
75320C0809000	FM-753 3DG	M8x90	55	55	120	60
75320C0811500	FM-753 3DG	M8x115	55	55	120	60
75320C0813500	FM-753 3DG	M8x135	55	55	120	60
75320C0816500	FM-753 3DG	M8x165	55	55	120	60
75320C1006000	FM-753 3DG	M10x60*	50	50	105	55
75320C1007500	FM-753 3DG	M10x75	55	55	150	75
75320C1009000	FM-753 3DG	M10x90	55	55	150	75
75320C1010000	FM-753 3DG	M10x100	55	55	150	75
75320C1012000	FM-753 3DG	M10x120	55	55	150	75
75320C1014500	FM-753 3DG	M10x145	55	55	150	75
75320C1017000	FM-753 3DG	M10x170	55	55	150	75
75320C1021000	FM-753 3DG	M10x210	55	55	150	75
75320C1208000	FM-753 3DG	M12x80*	80	120	135	80
75320C1210000	FM-753 3DG	M12x100	90	90	180	90
75320C1211000	FM-753 3DG	M12x110	90	90	180	90
75320C1213500	FM-753 3DG	M12x135	90	90	180	90
75320C1216000	FM-753 3DG	M12x160	90	90	180	90
75320C1218500	FM-753 3DG	M12x185	90	90	180	90

\* Not included in the approval

# Technical data sheet



## FM-753 3DG Heavy Duty Wedge Anchor

References	Spacing and edge distances					
	Product Reference	Dimensions [ØxL] [mm]	Min. edge distance [cmin] [mm]	Min. spacing [smin] [mm]	Characteristic spacing(5) - Scr,N [scr,N] [mm]	Characteristic edge distance [ccr,N] [mm]
75320C1220000	FM-753 3DG	M12x200	90	90	180	90
75320C1222000	FM-753 3DG	M12x220	90	90	180	90
75320C1224000	FM-753 3DG	M12x240	90	90	180	90
75320C1225500	FM-753 3DG	M12x255	90	90	180	90
75320C1228500	FM-753 3DG	M12x285	90	90	180	90
75320C1230000	FM-753 3DG	M12x300	90	90	180	90
75320C1232500	FM-753 3DG	M12x325	90	90	180	90
75320C1611000	FM-753 3DG	M16x110*	100	140	195	100
75320C1612500	FM-753 3DG	M16x125	130	130	255	130
75320C1614500	FM-753 3DG	M16x145	130	130	255	130
75320C1617500	FM-753 3DG	M16x175	130	130	255	130
75320C1621500	FM-753 3DG	M16x215	130	130	255	130
75320C1623000	FM-753 3DG	M16x230	130	130	255	130
75320C1625000	FM-753 3DG	M16x250	130	130	255	130
75320C1627000	FM-753 3DG	M16x270	130	130	255	130
75320C1632000	FM-753 3DG	M16x320	130	130	255	130
75320C2017000	FM-753 3DG	M20x170	145	200	290	145
75320C2021500	FM-753 3DG	M20x215	145	200	290	145
75320C2028000	FM-753 3DG	M20x280	145	200	290	145

\* Not included in the approval

## FM-753 3DG Heavy Duty Wedge Anchor

### Installation data

References	Installation data								
	Product Reference	Dimensions [ØxL] [mm]	Ø drilling hole [d0] [mm]	Min. drill depth [h1] [mm]	Ø drilling fixture [df] [mm]	Wrench size [SW] [mm]	Installation torque [Tinst] [Nm]	Embedment depth [hef] [mm]	Min. support thickness [hmin] [mm]
75320C0604500	FM-753 3DG	M6x45*	6	45	7	10	6	30	100
75320C0606500	FM-753 3DG	M6x65	6	50	7	10	6	35	100
75320C0608500	FM-753 3DG	M6x85	6	50	7	10	6	35	100
75320C0610000	FM-753 3DG	M6x100	6	50	7	10	6	35	100
75320C0805000	FM-753 3DG	M8x50*	8	50	9	13	15	30	100
75320C0806500	FM-753 3DG	M8x65	8	60	9	13	15	40	100
75320C0807500	FM-753 3DG	M8x75	8	60	9	13	15	40	100
75320C0809000	FM-753 3DG	M8x90	8	60	9	13	15	40	100
75320C0811500	FM-753 3DG	M8x115	8	60	9	13	15	40	100
75320C0813500	FM-753 3DG	M8x135	8	60	9	13	15	40	100
75320C0816500	FM-753 3DG	M8x165	8	60	9	13	15	40	100
75320C1006000	FM-753 3DG	M10x60*	10	55	12	17	25	35	100
75320C1007500	FM-753 3DG	M10x75	10	70	12	17	25	50	100
75320C1009000	FM-753 3DG	M10x90	10	70	12	17	25	50	100
75320C1010000	FM-753 3DG	M10x100	10	70	12	17	25	50	100
75320C1012000	FM-753 3DG	M10x120	10	70	12	17	25	50	100
75320C1014500	FM-753 3DG	M10x145	10	70	12	17	25	50	100
75320C1017000	FM-753 3DG	M10x170	10	70	12	17	25	50	100
75320C1021000	FM-753 3DG	M10x210	10	70	12	17	25	50	100
75320C1208000	FM-753 3DG	M12x80*	12	70	14	19	50	45	100
75320C1210000	FM-753 3DG	M12x100	12	85	14	19	50	60	120
75320C1211000	FM-753 3DG	M12x110	12	85	14	19	50	60	120
75320C1213500	FM-753 3DG	M12x135	12	85	14	19	50	60	120
75320C1216000	FM-753 3DG	M12x160	12	85	14	19	50	60	120
75320C1218500	FM-753 3DG	M12x185	12	85	14	19	50	60	120
75320C1220000	FM-753 3DG	M12x200	12	85	14	19	50	60	120

# Technical data sheet



## FM-753 3DG Heavy Duty Wedge Anchor

References	Installation data								
	Product Reference	Dimensions [ØxL] [mm]	Ø drilling hole [d0] [mm]	Min. drill depth [h1] [mm]	Ø drilling fixture [df] [mm]	Wrench size [SW] [mm]	Installation torque [Tinst] [Nm]	Embedment depth [hef] [mm]	Min. support thickness [hmin] [mm]
75320C1222000	FM-753 3DG	M12x220	12	85	14	19	50	60	120
75320C1224000	FM-753 3DG	M12x240	12	85	14	19	50	60	120
75320C1225500	FM-753 3DG	M12x255	12	85	14	19	50	60	120
75320C1228500	FM-753 3DG	M12x285	12	85	14	19	50	60	120
75320C1230000	FM-753 3DG	M12x300	12	85	14	19	50	60	120
75320C1232500	FM-753 3DG	M12x325	12	85	14	19	50	60	120
75320C1611000	FM-753 3DG	M16x110*	16	95	18	24	100	65	130
75320C1612500	FM-753 3DG	M16x125	16	115	18	24	100	85	170
75320C1614500	FM-753 3DG	M16x145	16	115	18	24	100	85	170
75320C1617500	FM-753 3DG	M16x175	16	115	18	24	100	85	170
75320C1621500	FM-753 3DG	M16x215	16	115	18	24	100	85	170
75320C1623000	FM-753 3DG	M16x230	16	115	18	24	100	85	170
75320C1625000	FM-753 3DG	M16x250	16	115	18	24	100	85	170
75320C1627000	FM-753 3DG	M16x270	16	115	18	24	100	85	170
75320C1632000	FM-753 3DG	M16x320	16	115	18	24	100	85	170
75320C2017000	FM-753 3DG	M20x170	20	130	22	30	160	95	200
75320C2021500	FM-753 3DG	M20x215	20	130	22	30	160	95	200
75320C2028000	FM-753 3DG	M20x280	20	130	22	30	160	95	200

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