

Technical 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

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

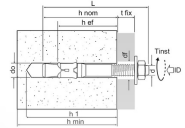
- Non-cracked concrete
- Solid stone



FM-753 3DG
Heavy Duty Wedge Anchor

Technical Data

Product dimensions



Product dimensions

See full table online [→](#)



Reference	[tfix,max] with	[tfix,max] with	Hole	Hole diameter	Min. setting	Qty	Product Reference	Thread
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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]			
	Dim					VRd (1-2)[kN]
75320C1007500						
75320C1210000						
75320C1614500	M16x145	FM-753	3DG	30.0	30.4	

Design capacities - single anchor
- no edge distances

See full table online [→](#)



Recommended capacities - single anchor - no edge distances

Reference	Metallic fixings dimensions		Metallic fixings loads			
	Product Dimensions[mm]		Recommended loads - Non-cracked concrete			
	Dim					VRd - VreC[kN]
75320C1007500						
75320C1210000						
75320C1614500	M16x145	FM-753	3DG	30.0	30.4	

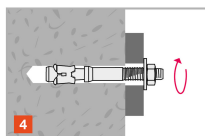
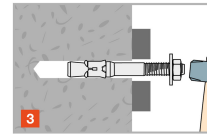
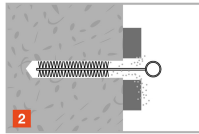
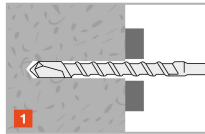
Recommended capacities -
single anchor - no edge
distances

See full table online [→](#)



FM-753 3DG Heavy Duty Wedge Anchor

Installation



Spacing, and Edge Distances

Reference	Metallic fixings dimensions		Installation data			
	Product Dimensions[mm]	Product Reference	Spacing and edge distances			
	Dimensions[mm]		Min. edge distance[mm]	Min. spacing[mm]	Characteristic spacing(5) - Scr,N[mm]	Characteristic edge distance[mm]
75320C1007500	M10x75	FM-753 3DG	55	55	150	75
75320C1210000	M12x100	FM-753 3DG	90	90	180	90
75320C1614500	M16x145	FM-753 3DG	130	130	255	130

* Not included in the approval

Installation data

Reference	Metallic fixings dimensions			Installation data					
	Product Dimensions[mm]		Product Reference	Installation data					Spacing and edge distances
	Dimensions[mm]	Wrench size[mm]		Ø drilling hole[mm]	Min. drill depth[mm]	Ø drilling fixture[mm]	Installation torque[Nm]	Embedment depth[mm]	Min. support thickness[mm]
75320C1007500	M10x75	17	FM-753 3DG	10	70	12	25	50	100
75320C1210000	M12x100	19	FM-753 3DG	12	85	14	50	60	120
75320C1614500	M16x145	24	FM-753 3DG	16	115	18	100	85	170

