

FM-MP3 evo A4

## Heavy Duty Three Segments Through Anchor

The FM-MP3 evo A4 is an anchor made of A4 stainless steel, which is placed into a drilled hole and anchored by torque-controlled expansion.

### Toepassingen

#### Applications

- Safety barriers
- Fencing
- Railings

#### Suitable for

- Multiple use for non-structural applications on cracked and non-cracked concrete



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## Technische gegevens

### Material

- Steel
- White zinc plated

### Benefits

- Universal metallic anchor even for hollow base materials
- Single shell body with exclusive cone containing system
- Accessories for all types of fixing requirements
- Fire resistance R120

### Product Dimensions Anchor Only

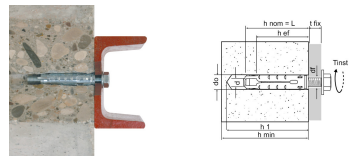
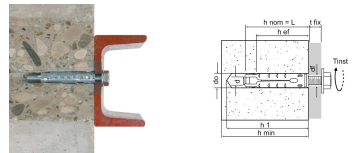


Table "Product Dimensions Anchor Only" cannot be displayed : no references available.

### Product Dimensions Hex Head Screw



Referentie	Product Reference	Dimensions [ØxL] [mm]	Max. fixture thickness [t <sub>fix</sub> ] [mm]	Hole diameter [d <sub>o</sub> ]	Min. hole depth [h <sub>1</sub> ]	Nominal embedment depth [h <sub>nom</sub> ]	Min. setting depth [h <sub>ef</sub> ]	Hole diameter in fixing element [d <sub>i</sub> ]	Min. fixture thickness [h <sub>min</sub> ]	Thread length [L <sub>v</sub> ]	Torque [T <sub>inst</sub> ]
7330101205000	FM-MP3 evo A4	M8x50	10	12	70	50	43	10	100	60	15
7330101506000		M10x60	20	15	80	60	50	12	100	80	30
7330101808000		M12x80	20	18	100	80	69	14	140	100	50

\*\* Not covered by CE certification

Recommended loads / for single anchors / with no edge distances or spacings - ETA-09/0067

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Design capacities - single anchor - no edge distances

Referentie	Product Reference	Dimensions [ØxL] [mm]	Design capacity - Non-cracked concrete (3)								Bending moment MRd [Nm]
			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]	
7330101205000	FM-MP3 evo A4	M8x50	6.7	-	-	-	7.7	-	-	-	24
7330101506000	FM-MP3 evo A4	M10x60	8.9	-	-	-	9.7	-	-	-	48
7330101808000	FM-MP3 evo A4	M12x80	13.9	-	-	-	18.6	-	-	-	84

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).

Recommended loads / for single anchors / with no edge distances or spacings - ETA-10/0074

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## Plaatsing

### Installation data

Referentie	Product Reference	Dimensions [ØxL] [mm]	Ø drilling hole [d0] [mm]	Min. drill depth [h1] [mm]	Ø drilling fixture [df] [mm]	Installation torque [Tinst] [Nm]	Embedment depth [hef] [mm]	Min. support thickness [hmin] [mm]
7330101205000	FM-MP3 evo A4	M8x50	12	70	10	15	43	100
7330101506000	FM-MP3 evo A4	M10x60	15	80	12	30	50	100
7330101808000	FM-MP3 evo A4	M12x80	18	100	14	50	69	140

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Spacings and edge distances - ETA-09/0067

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Spacings and edge distances - ETA-10/0074

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