

### Steel anchors

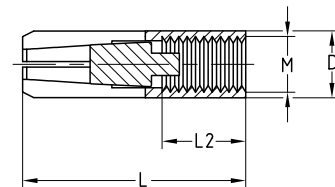
#### Field of application

- For anchorages of medium-weight loads in concrete and natural stone (hard) in dry interiors of buildings, in damp rooms as well as outdoor
- Versatilely applicable for attachment with screws or threaded rods in all plumbing, heating and ventilation installations

#### Advantages

- Secure grip due to controlled splaying as the taper is driven in

- Only small drilling depth required
- Flush finish with surface of the building material
- Secure expansion force even when the mounting screw is loosened
- European Technical Assessment (ETA) for non-cracked and cracked concrete (reduced loads)
- When using the setting tool for check marking, the load test (proof load) of the anchor is not necessary



#### Features



Connecting thread	Overall length [mm]	Material	Part no.	Sales unit	Pack unit	Drill- $\varnothing$ D [mm]	Usable thread length [mm]	FM	Multiple attachment of non-load bearing systems ETA assessment		Non-cracked concrete, centrally tensile loaded ETA assessment			
									Drilled hole depth $h_o$ [mm]	Approved load <sup>1)</sup> [kN]	Drilled hole depth $h_o$ [mm]	Approved load <sup>2)</sup> [kN]		
M6	30	V4A	129086	100	pieces	8	13		30	1.2	30	3.9 <sup>3)</sup>		
M8			129087					10				1.7		
M10	40		129082	50			12	20	●	40	2.0	40	6.1	
M12	50		129083					15	18	●	50	2.4	50	8.5
M16	65		129084			25		20	23	●	65	6.3	65	12.6

<sup>1)</sup> Use as multiple attachment of non-load-bearing systems. The overall safety coefficient according to ETAG is taken into consideration. The European Technical Assessment 05/0161 shall be observed for dimensioning.

<sup>2)</sup> The approved loading applies for single anchors in concrete strength class  $\geq$  C20/25 (B25) for axially applied tension without the influence of axial and edge spacings. The safety coefficient according to ETAG is included. The European Technical Assessment 05/0160 shall be observed for dimensioning.

<sup>3)</sup> Only for use in statically indeterminate systems.

#### Setting tools for steel anchors

	Connecting thread	Part no.	Sales unit	Pack unit
Setting tools, hardened	M6 x 30	123117	1	pieces
Setting tools, hardened	M8 x 30	123104		
for check marking	M10 x 40	123092		
	M12 x 50	123096		
	M16 x 65	123113		



For further setting tools for steel anchors please refer to chapter „Anchor plugs“.