

### Steel anchors

stainless steel

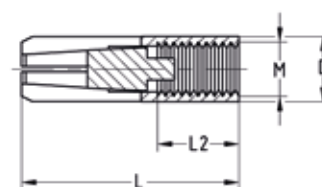
#### Application

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

#### Your advantages

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

- Requires only small drilling depth
- 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



Type	Connecting thread	Length L [mm]	Usable thread length L2 [mm]	Drilling diameter D [mm]	FM	Uncracked concrete centrally tensile loaded ETA assessment		Multiple attachment of non-load bearing systems ETA assessment		Material	Part no.	Sales unit	Pack unit
						Drilling depth h <sub>0</sub> [mm]	Permissible load <sup>1)</sup> [kN]	Drilling depth h <sub>0</sub> [mm]	Permissible load <sup>2)</sup> [kN]				
without collar	M6	30	13	8		30	3.9 <sup>3)</sup>	30	1.2	V4A	129086	100	Pieces
	M8			10					1.7		129087		
	M10	40	20	12	x	40	6.1	40	2		129082	50	
	M12	50	18	15	x	50	8.5	50	2.4		129083		

<sup>1)</sup> The admissible loads apply 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 ETA is included. The European Technical Assessment 05/0160 shall be observed for dimensioning.

<sup>2)</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 in dimensioning.

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

**i** For additional characteristic values of plugs for use in areas with requirements on the duration of fire resistance, please refer to the „Technical information“ chapter.

### Setting tools for steel anchors

Design	Connecting thread	Part no.	Sales unit	Pack unit
Setting tool, hardened	M6 x 30 mm	123117	1	Pieces
Setting tool, hardened	M8 x 30 mm	123104		
for check marking	M10 x 40 mm	123092		
	M12 x 50 mm	123096		



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