

### Steel anchors galvanised

#### Field of application

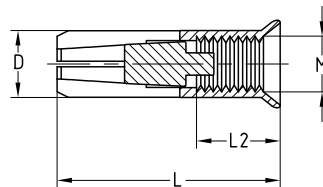
- For anchorages of medium-weight loads in concrete and natural stone (hard) in dry interiors of buildings
- Versatile and suitable for attachment with screws or threaded rods in all plumbing, heating and ventilation installations
- Anchors with a length of 25 mm are admitted as multiple attachment of non-load bearing systems for use in prestressed concrete hollow core slab ceilings

#### Advantages

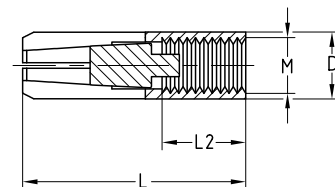
- Secure grip due to controlled splaying as the taper is driven in
- Requires only small drilling depth
- Flush finish with surface of the building material
- Secure expansion force even when the mounting screw is loosened
- European Technical Assessment (ETA) for non-cracked and cracked concrete (reduced loads)
- If used the setting tools for check marking, test loading of the anchor is not required



Steel anchor with collar



Steel anchor



- Efficient and effortless mounting due to headed drill and plug-in setting tool

#### Features



	Connecting thread	Anchor length L [mm]	Part no.	Sales unit	Pack unit	Drill- Ø D [mm]	Usable thread length [mm]	FM	Multiple attachment of non-load bearing systems	Non-cracked concrete, centrally tensile loaded			
									ETA assessment	ETA assessment			
									Drilled hole depth h <sub>0</sub> [mm]	Approved load <sup>1)</sup> [kN]	Drilled hole depth h <sub>0</sub> [mm]	Approved load <sup>2)</sup> [kN]	
Steel anchor	M6	30	129092	100	pieces	8	13		30	1.2	30	3.3 <sup>3)</sup>	
	M8	40	129093				10			40	1.7	40	2.8 <sup>3)</sup>
			129088					20			40	2.0	40
	M10		129089				12	15	●				5.1
	M12	50	129090			50	15	18	●	50	2.4	50	7.1
Steel anchor with collar	M16	65	129091	25	20	23	●	65	6.3	65	10.5		
		M8	25	167194	100	10	12		25	1.9	–	–	
	30		149067			30	1.7	30	2.8 <sup>3)</sup>				
	40		150703			40	2.0	40	3.6 <sup>3)</sup>				
	M10	25	167195		12	12	●	25	2.1	–	–		
		30	149068				●	30	2.0	30	3.3 <sup>3)</sup>		
		40	149325				●	40		40	5.1		
	M12	25	167196	50	15	12		25	2.1	–	–		
		50	150704					●	50	2.4	50	7.1	

<sup>1)</sup> Use as multiple attachment of non-load-bearing systems according to ETAG 001, part 6. The overall safety coefficient according to ETA is taken into consideration ( $\gamma_M$  und  $\gamma_F$ ). The max. permitted load for each attachment point can be below the permitted load of the anchor, depending on national regulations. The permitted loads for each attachment point are regulated by ETAG 001, part 6 for the different countries. The European Technical Assessment 05/0161 shall be observed for dimensioning.

<sup>2)</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>3)</sup> Only for use in statically indeterminate systems.

**i** For the stainless steel version please refer to chapter „Stainless steel“. For additional characteristic values of plugs, for use in areas with requirements on the duration of fire resistance and for use in prestressed concrete hollow core slab ceilings, please refer to the „Technical information“ chapter.