

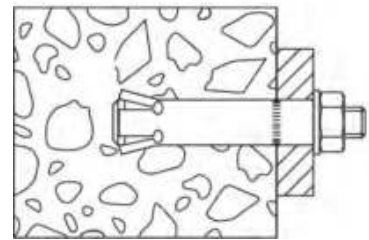
Undercut anchor

Undercut anchor from TPMC is a key-locking anchor available in both push-through and pre-setting configurations. Designed for reliable load attachment in cracked and uncracked concrete, it works with a specialized undercut drill bit that creates a precise cylindrical hole with a conical undercut at the base. A setting tool pushes the sleeve into the conical undercut, creating a positive mechanical interlock that is virtually expansion-free.

FM Approved, it is ideal for pipe hangers, sway braces, seismic bracing, and sprinkler systems, providing superior holding strength and maximum safety, especially in cracked concrete.



- Certificate: FM Approved
- Standard: NFPA 13, GB/T 22795, ETA Certified
- Material: CS per ASTM A307 / ISO 898-1
SS per 304 / 316
- Thread: Imperial, UNC, Class 2A per ASME B1.1
Metric, coarse thread, 6g per ISO 965-1
- Includes: Complete set, threaded stud with cone, expansion clip, hex nut, and flat washer
- Installation: Push-through type, pre-setting type
- Surface: CS, electro-galvanized / hot-dip galvanized
SS, as processed / passivated



Available sizes (Imperial)

Nominal anchor diameter	Length	Allowable load in concrete (lbs)		Compatible pipe size		Ref. No.
		Cracked	Non-cracked	Inch	DN	
3/8"	6"	1280	2450	Up to 4"	Up to 100	P8603 (ISO)
1/2"	7-1/2"	2560	3780	Up to 8"	Up to 200	P8604 (ISO)
5/8"	10-3/4"	3690	5260	Up to 12"	Up to 300	P8605 (ISO)
3/4"	14"	23580	28780	Up to 12"	Up to 300	P8606 (ISO)

Note: Allowable loads are based on carbon steel material and are approximate values converted from tested metric data. Values are for reference only. Actual design loads must be verified according to applicable design codes (ACI 318, ETAG, etc.), concrete strength, embedment depth, edge distance, and spacing.

Undercut anchor

Available sizes (Metric)

Nominal anchor diameter	Length (L, mm)	Max rec. tension for concrete (kN)		Compatible pipe size		Ref. No.
		Cracked	Non-cracked	Inch	DN	
M10	126	5.7	10.9	Up to 4"	Up to 100	P8623 (FM)
M12	126	11.4	16.8	Up to 8"	Up to 200	P8624 (FM)
M16	156	16.4	23.4	Up to 12"	Up to 300	P8625 (FM)
M20*	250	104.9	128	Up to 12"	Up to 300	P8626 (ISO)

Note:

- Maximum recommended tension loads are based on carbon steel material in cracked and non-cracked concrete. Values are for reference only. Actual design loads must be verified according to applicable design codes (ACI 318, ETAG, etc.), concrete strength, embedment depth, edge distance, and spacing.
- *M20 is self-undercut anchor, not pre-undercut anchor.