ENGLISH

Datasheet
Ankerbolt Socket Bolt

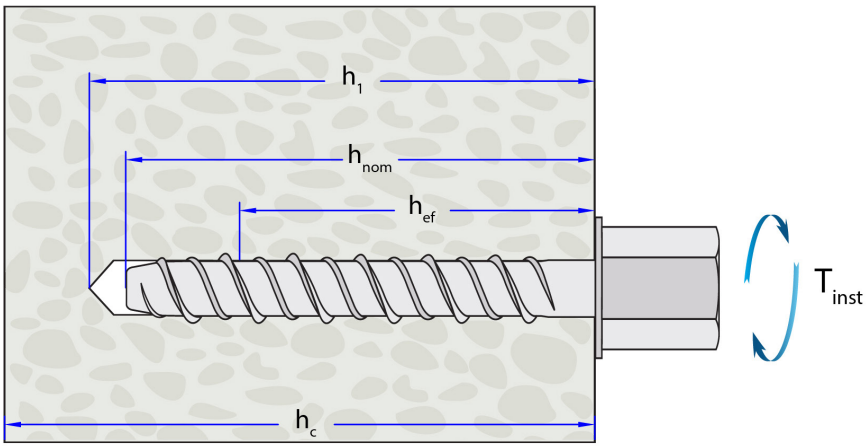
Single Thread M8/M10

Features
The Ankerbolt Socket Bolt is a self tapping anchor for use in a variety of base materials. The undercutting action provides a positive anchorage with no expansion forces. The choice of M8 and M10 gives options for the diameter of threaded rod being used.

- Undercutting action
- Fast And Secure Installation
- Expansion Free
- High Performance
- Reaction to Fire Class A1
- Fire Resistant Classification R120

Range Data

RANGE AND LOAD DATA (SOLID CONCRETE C20/25 AND HOLLOW CONCRETE PLANKS)										
Part Number	Drill Hole Diam (d_0)	Hole Depth (h_1)	Overall Length (L)	Embed-ment Depth (h_{nom})	M8 Internal Thread Length (l_{Th})	M10 Internal Thread Length(l_{Th})	Across Flats (AF)	Design Tensile Resistance (N_{Rd})	Reccomend-ed Tensile Resistance (N_{Ap})	Tighten-ing Torque (T_{inst})
	mm	mm	mm	mm	mm	mm	mm	kN	kN	Nm
Single Thread										
1776881 (M8)	6	50	55	40	10	N/A	13	3.3	2.3	25
1776913 (M10)	6	50	55	40	N/A	10	13	3.3	2.3	25



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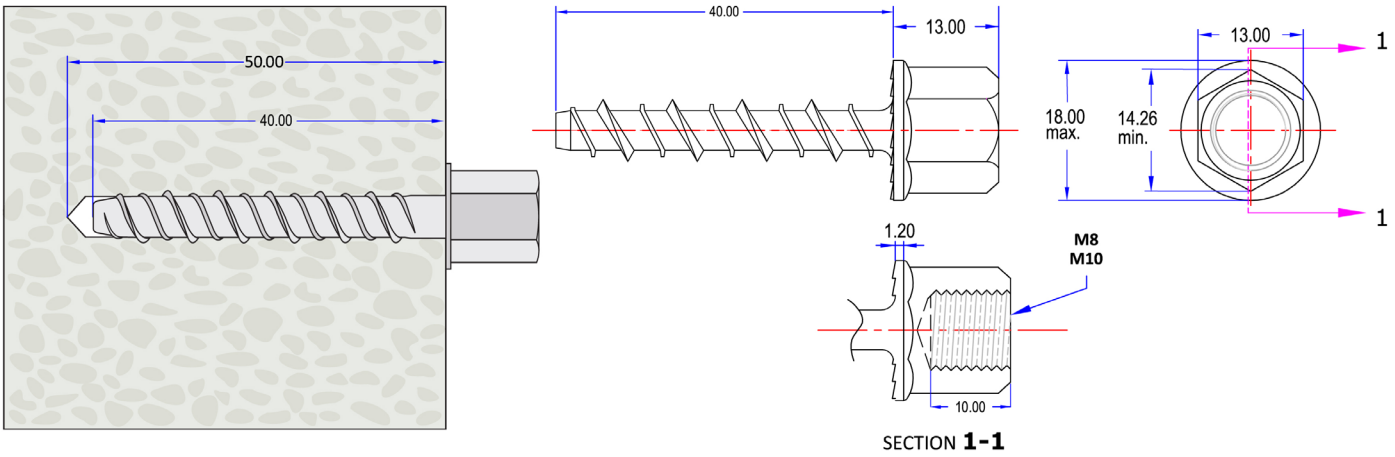

FIRE RESISTANCE DATA

FIRE RESISTANCE DATA				
Part Number	**Thread Diameter**	**Fire Exposure Time (min)**	**Anchor Failure**	**Mode of Failure**
1776881 (M8)	M08	120	None	Threaded Rod
1776913 (M10)	M10*	120	None	Threaded Rod

* The tests on M10 Grade 4.6 threaded rod were continued for 10min over the 120min standard fire curve time with failure of the threaded rod.

HREADED RODS LOAD TABLE

THREADED RODS LOAD TABLE			
Threaded Rod Steel Grade	**Thread Diameter**	**Applied Load (kg)**	**Fire Exposure Time (min)**
Grade 4.6	M08	80	79
Grade A4-70*	M08	80	90
Grade 8.8	M08	80	120
Grade 4.6	M10	80	120
Grade A4-70*	M10	80	120
Grade 8.8	M10	80	120

* Calculated based on the stress-strain relationship provided by EN1993-1-2 for stainless steel at elevated temperatures.

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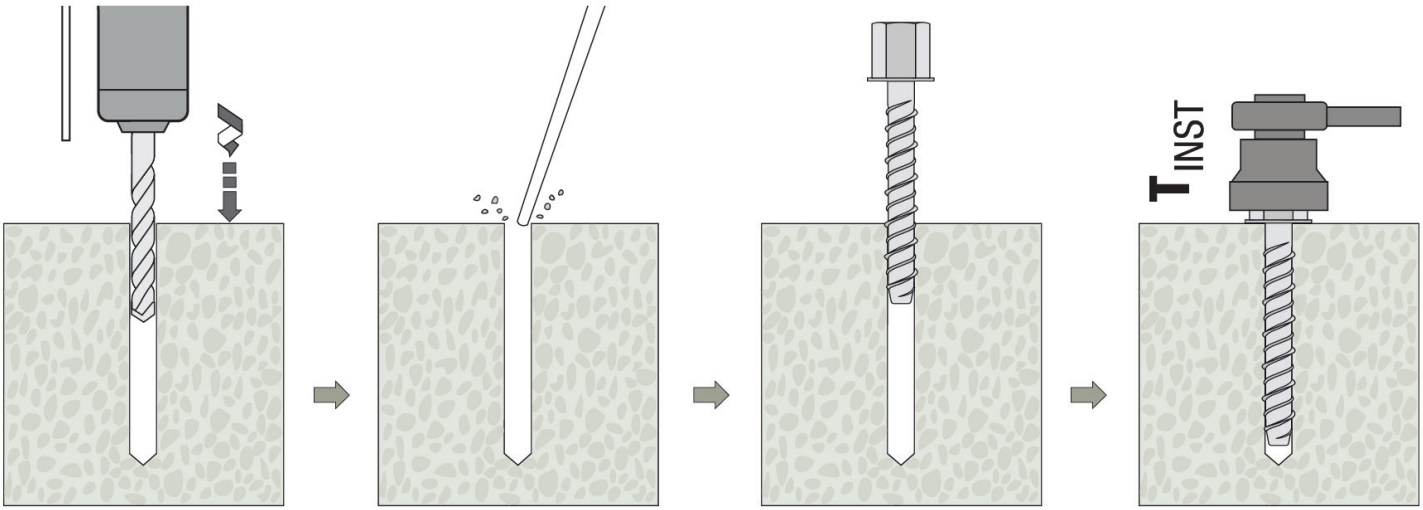
INSTALLATION INSTRUCTIONS



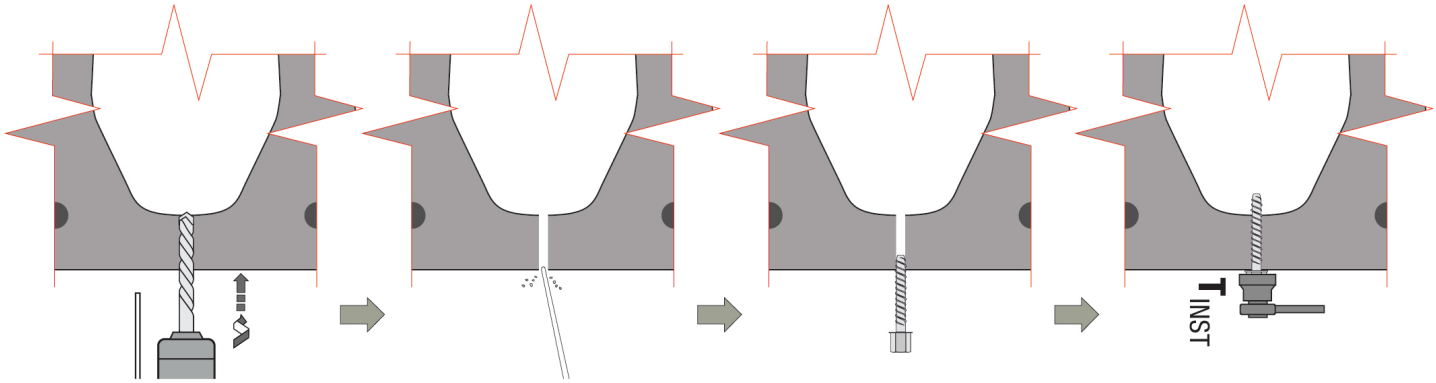
-Drill correct diameter hole to corresponding depth

-Clean hole by blowing to remove drilling debris and dust

-Insert anchor into concrete using suitable impact wrench

-Tighten with torque wrench to recommended torque

HOLLOW CONCRETE PLANKS INSTALLATION INSTRUCTIONS



-Drill correct diameter hole into void

-Clean hole by blowing to remove drilling debris and dust

-Insert anchor into concrete using suitable impact wrench

-Tighten with torque wrench to recommended torque