

TECHNICAL DATASHEET

THROUGH BOLT

ZINC PLATED

TECHNICAL DATA SHEET - HIGH PERFORMANCE THROUGH BOLT

Zinc plated through bolts also known as wedge anchors.
Fast installation through fixing for concrete and solid stone. The chamfered head protects the threads when the anchor is tapped into the fixing hole using a hammer. Features an anti-rotation expansion sleeve.

KEY FEATURES

Components	Specifications
Anchor	Carbon steel, zinc plated
Hexagon-nut	Carbon steel, zinc plated
Washer	Carbon steel, zinc plated
Expansion sleeve	Carbon steel, zinc plated

BUILDING MATERIALS

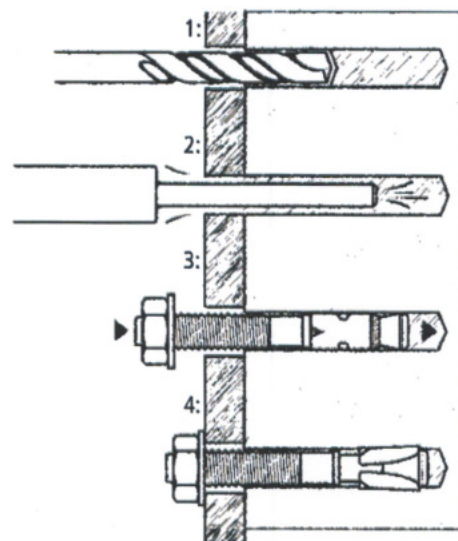
Concrete C20/25
Solid stone

INSTALLATION

- Drill a hole with correct diameter and depth (No drill bit standard required).
- Clean the drilled hole.
- Insert through bolt and tap slightly with hammer.
- Tighten the anchor to the fixture using a torque until secure.

APPLICATIONS

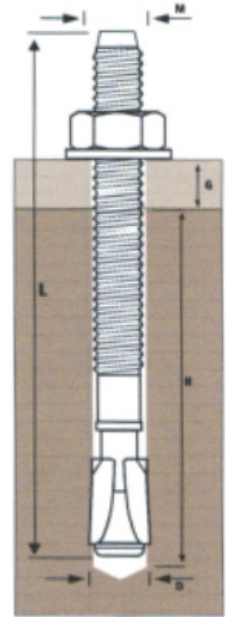
- Pipe Ducts
- Railings
- Posts
- Gates
- Handrails
- Gratings
- Consoles
- Cable ducts
- Storage racking



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RANGE DATA : METRICS

M	D	H	G	L
Anchor Diameter (mm)	Hole Diameter (mm)	Hole Depth (mm)	Fixture Thickness (mm)	Anchor Length (mm)
M8	8	42	25	80
M8	8	45	40	100
M8	8	63	60	120
M10	10	50	15	80
M10	10	50	35	100
M10	10	50	60	120
M10	10	55	90	150
M10	10	60	105	200
M12	12	60	22	100
M12	12	60	45	120
M12	12	60	95	150
M16	16	65	20	100
M16	16	65	35	120
M16	16	65	55	150



TECHNICAL DATA : METRIC

Anchor size	M8	M10	M12	M16
Maximum tension loads in concrete (kN)	2.1	3.1	4	7
Minimum spacing (mm)	85	110	150	170
Minimum Edge distance (mm)	70	90	110	140
Minimum base material thickness (mm)	180	200	220	260
Recommended tightening torque (Nm)	20	30	50	120
Wrench size (mm)	13	17	19	24

PERFORMANCE DATA : METRIC

Thread Diameter (mm)	Characteristic Resistance (kN)		Design Resistance (kN)		Recommended Resistance (kN)		Spacing (mm)	Edge Distance (mm)	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile & Shear	Tensile
8	7.4	9.2	3.9	4.6	2.1	3	85	45	70
10	11.2	14.5	5.8	7	3.1	4.4	110	55	90
12	17.9	21.2	9.2	11.3	4	6.2	150	75	110
16	23.8	33.4	12.9	19	7	11.2	170	95	140