

TECHNICAL DATA SHEET - HIGH PERFORMANCE FIX BOLT

KEY FEATURES

Component	Specification
Cone	Carbon Steel, Zinc Plated
Shield	Carbon Steel, Zinc Plated
Ferrule	Carbon Steel, Zinc Plated



BUILDING MATERIALS

Concrete Grade C20/25

INSTALLATION

- Drill a hole of the specified diameter and depth. (Standard drill bits can be used.)
- Clean the drilled hole to remove any dust or debris.
- Insert the expansion shield flush with the wall or surface.
- Position the fixture, insert the set screw, and tighten until the anchor is firmly secured.

APPLICATIONS

Handrails

Provides a secure and long-lasting anchor point for railing installations in residential, commercial, and industrial spaces.

Consoles and Brackets

Ideal for mounting metal or wooden brackets supporting shelves, air-conditioning units, or structural fittings.

Staircases

Ensures firm anchoring of stair components such as balustrades, stringers, and steps to concrete surfaces.

Gates and Fencing

Offers strong and stable fixing for metal gates, fence posts, and security barriers.

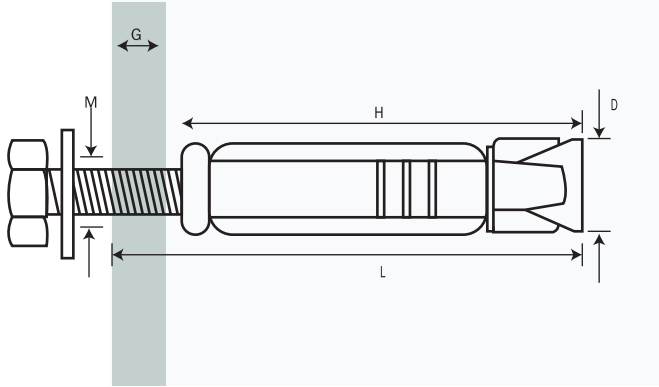
Signage and Fixtures

Suitable for installing signboards, lighting brackets, and wall-mounted fixtures in public and industrial environments.

Storage and Racking Systems

Provides dependable support for storage shelves, warehouse racks, and other load-bearing applications.

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RANGE DATA : METRICS

Bolt Diameter (mm)	Max. Fixture Thickness (mm)	Min. Hole Depth (mm)	Anchor Length (mm)	Drill Hole Diameter (mm)
M6	10	55	45	10
M8	10	60	55	15
M10	10	70	65	17
M12	10	95	90	20
M16	15	115	110	25

TECHNICAL DATA : METRIC

Anchor Size		M6	M8	M10	M12	M16
Thickness of substrate	mm	100	100	120	160	200
Min. Spacing	mm	65	75	90	120	150
Min. Edge distance	mm	60	75	90	120	150
Design resistance tension	kN	3.3	6	8	10.6	11.9
Design resistance Shear	kN	6.4	9.9	18.4	26.4	50.2
Wrench size	mm	10	13	17	19	24
Required setting torque	Nm	6.8	17	35	48	113