

IS 3757: 1985

‘Specification for High Strength Structural Bolts’

IS 3757: 1985 specifies the requirements for high-strength structural bolts of sizes M16 to M36, which are critical components used to join heavy steel structures in construction, bridges, and industrial applications. These bolts are designed to withstand high loads and stresses, ensuring the stability and safety of large structures.



The design of the bolts shall ensure that they can be easily used with other components like nuts and washers for secure fastening. For this, dimensional requirements are specified in standard.

Also, the bolts must be made from high-quality steel that confirms to the Mechanical strength requirements given in the standard so that bolts can endure heavy forces without breaking or deforming.

Bolts may be supplied in dull black heat-treated condition with residual oil or may be galvanized for corrosion resistance.

The standard also talks about method of nomenclature of bolts along with necessary marking details so that the right bolt is selected for correct application. This standard thus ensures that high-strength bolts used in construction are reliable, safe, and durable, contributing to the structural integrity of buildings and infrastructure.

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