

IS 18573:2024 - Cold formed welded carbon steel square and rectangular hollow sections for mechanical, general engineering and decorative purposes- Specification

The Indian Standard IS 18573:2024 specifies requirements for cold-formed welded carbon steel **square and rectangular hollow sections used in mechanical, general engineering, and decorative applications**. These hollow sections are essential for **construction, infrastructure, and industrial projects**, providing **structural integrity**, durability, and **aesthetic appeal**. The standard ensures that hollow sections meet stringent requirements for safety, performance, and reliability.

Key specifications include dimensions, tolerances, material requirements (conforming to IS 10748), **steel grades, weld quality, surface finish, and mechanical properties**. The standard covers hollow sections with outer dimensions ranging from 20x20 mm to 200x200 mm, thickness from 0.6 mm to 12.5 mm, and steel grades up to Grade Yst 355.

Packaging requirements ensure protection during transportation and storage. Sampling and testing protocols include **chemical analysis, tensile testing, bend testing, and weld testing** to ensure compliance.

The **Ministry of Steel, Government of India**, notifies this standard as a compulsory requirement for cold-formed welded carbon steel hollow sections. Adherence to this standard ensures conformity to public safety and infrastructure development regulations. Manufacturers must comply with IS 18573:2024 to demonstrate compliance with Indian regulatory requirements, ensuring the quality and reliability of hollow sections for various applications.