IS 7452:1990 HOT ROLLED STEEL SECTIONS FOR DOORS, WINDOWS AND VENTILATORS - SPECIFICATION

Hot rolled steel is steel that has undergone the rolling process at a temperature above its recrystallization temperature (usually 1700° F or greater). Compared to unprocessed steel, the processed material exhibits greater offering strength, durability formability and workability, making it easier to work with in subsequent processing operations thus giving design flexibility. The standard finds its use among architects, builders, and contractors seeking reliable and efficient solutions for modern construction needs.

The standard lays down the requirements regarding material, nominal dimensions and mass and their tolerances, surface finish and packing for hot rolled steel sections used for doors, windows, ventilators and sashes. The standard outlines the requirements for the mechanical properties of hot-rolled steel sections used in these applications and also specifies designation for different profiles. Requirement of surface finish ensures that section is free from rolling defects and twist is not more than 5 degree over a length of 3 meters. Bend test is specified to evaluate both the ductility and soundness of the profile. The section shall be packed in such a way as to avoid damage in transit.

By adhering to the requirements specified in IS 7452, manufacturers can ensure that their products meet the necessary quality and performance standards, contributing to the overall integrity and aesthetics of buildings.