

This Indian Standard, IS 2202 (Part 1) : 2023, outlines the specifications for **solid core wooden flush door shutters** with face panels of plywood or of cross-band and face veneers. It categorizes these shutters into two primary grades: **BWP (Boiling Water Proof) Grade** and **MR (Moisture Resistance) Grade**. The BWP grade is designed for use in both humid and dry environments, while the MR grade is intended specifically for dry locations. Both the BWP and MR grades are further divided into **decorative** and **non-decorative** types. Each type can be constructed using a variety of core materials, including blockboard, particle board, or medium-density fibreboard (MDF).

The standard provides guidance on the appropriate materials for constructing these shutters, including details such as suitable timber species for different components, acceptable adhesive types, the composition of face panels, preferred methods for lipping, procedures for rebating, and the incorporation of openings for glazing or venetian blinds. It also specifies the acceptable dimensions and tolerances for the shutters, ensuring uniformity and proper fit.

The standard establishes procedures for a series of tests designed to evaluate the quality and performance of the shutters. These tests cover various aspects such as: **dimensions and squareness, general flatness, local planeness, end immersion, knife test, glue adhesion, impact indentation, flexure, edge loading, shock resistance, buckling resistance, slamming, misuse, varying humidity, knife test, glue adhesion, and screw withdrawal resistance** etc. The standard also defines sampling methodologies and criteria for conformity assessment, ensuring that a representative sample of shutters from each lot is tested. It includes specific instructions on the number of shutters to be sampled based on the lot size and the permissible number of defective samples allowed. Additionally, the standard outlines additional requirements for manufacturers seeking the **ECO Mark certification**.