

Wooden flush door shutters (solid core type) are smooth, durable doors with a solid core and a range of face panel options, including particle board, high-density fiberboard (HDF), medium-density fiberboard (MDF), and fiber hardboard. They are designed for indoor use, valued for their strength, moisture resistance, and aesthetic flexibility. Consumers expect these doors to be structurally sound, long-lasting, and capable of withstanding humid environments without warping or delaminating.

The Indian Standard IS 2202 (Part 2): 2022 ensures these quality expectations are met through detailed specifications for materials, construction, and testing. This standard defines two primary grades: **BWP (Boiling Water Proof)**, suitable for humid and dry conditions, and **MR (Moisture Resistance)**, designed for drier environments. It specifies robust materials for **stiles, rails, and face panels**, which must meet performance requirements for durability and resistance to moisture. Face panels can include **veneered particle board, prelaminated MDF, and tempered hardboard**, giving manufacturers flexibility while ensuring quality.

To guarantee performance, IS 2202 (Part 2): 2022 mandates rigorous tests, including the **end immersion test** and **glue adhesion test**. These tests evaluate moisture resistance by immersing the door and examining it for any delamination, particularly at glue lines between face panels and core materials. Thickness tolerances and structural specifications are also tightly controlled, ensuring a product that meets size and durability expectations.

The standard also requires specific markings on each door, including information about grade, thickness, and manufacturer, allowing consumers to verify the product's compliance easily. Doors carrying the BIS certification mark meet IS 2202 (Part 2): 2022, offering assurance of safety, longevity, and performance—making them a reliable, high-quality choice for various indoor applications.