

## 1hour Rated Non-metallic (45mm thick) FCD of TUFWUD

### "TUFWUD<sup>®</sup> Fire Door Frame Specifications"

- **1 hour rated frames are made of best quality high density Malaysian Hardwood of finished size 120 X 60 mm.**
- They are further densified and pressure treated with fire retardant chemicals in vacuum impregnation vessel **under 160 psi** of pressure as per IS: 401 and Kiln seasoned to moisture below 15% as per IS: 1141 making them 1 hour fire rated.
- For additional safety, **2 coats of Intumescent paint** of minimum 200 micron Spray Painted is applied which on contact with fire puffs up to make insulating foam like char to protect from both heat & flame.

### "TUFWUD<sup>®</sup> Fire Door - Specification"

- 45mm thick asbestos free composite - 3 criteria - fire, heat and smoke check Door Shutter with flame guard of 60 minutes, conforming BS 476 Part-22/IS 3614 Part II tested and certified by National Test House (Govt. Of India), suitable for mounting on "**tufwud**" fire door frame as above.
- Comprising of two non combustible silicate boards sand-witching frame work of 100mmX27mm with 27mm thick infill ceramic fiber & vermiculite mix faced with 3mm fire retardant high density fibre board **internally** lipped with hardwood beading and pasted on both sides in **Hydraulic Press under 50 tonnes** pressure.
- All the timber used inside is treated with Fire retardant chemicals in pressure impregnation vessels **under 160 psi** pressure as per IS: 401 and Kiln seasoned to moisture below 15% as per IS: 1141.
- Heat activated **Brush Type Astroflame (UK) Intumescent fire seal** strips of size 10mmx4mm for smoke sealing is mounted in the grooves on all sides of the shutter except bottom **without any external lipping**.
- 1 Hour rated E class **clear high stress fire rated glass** is prefabricated strategically **inside the Shutter structure with 12mm inside the shutter on all sides with 'U' gasket** without any external beading, so that no lipping or wooden bead is visible outside. An additional insulated powdercoated 'Z' channel of 16 swg MS sheet to be fixed for reinforcement of the joints.
- **Spray Painted by 2 coats of "Intumescent" paint** making a minimum 200 micron surface coverage of the door on all sides. This on contact with fire puffs up to make insulating foam like char to protect from heat and flame both. The external surface may be textured, Pre-laminated or spray painted as per clients' choice.

The above characteristics ensure that Halls, Lobby, Stair cases or wherever these **tufwud** fire doors and frames are fixed are kept free from heat, smoke and flame for safe passage at least for 1 hour. The Fire Door with frame are to be tested as per IS: 3614 part 2 at NTH, CBRI (Govt. Of India Undertaking) under **standard** Firing condition. Fire does not spread and remain content, where it is. Best quality Fire Rated hardware and accessories from reputed international brands like Dorma, Hafele, Assabloy, Ebco are supplied along with.