

## Specification for FCD 55mm thick - 120min rated (FD 120 ID) FULLY INSULATED wooden composite fire door

SI No	Description
	<b>Fire Door 55mm 2HR FD 120 ID WOODEN COMPOSITE FIRE DOOR - Fully compliant with IS: 3614 (2021 amended 2023)</b>
	Providing of 120 min fully insulated (FD 120 ID) Fire rated doors system for Integrity and Insulation Criteria as per the IS: 3614:2021 (ammendment 2023) and BS: 476 part 22 tested at any Govt of India undertaking lab, with standard heating conditions as specified in IS 17518 (Part 1) to achieve the required integrity and insulation (i.e. to restrict the heat radiation, temperature rise on the non fire side to the maximum of 140° C above the ambient temperature on the exposed surface of the shutter. The fire doors are tested with NCBN technology ("Non Combustible by Nature").
	<b>Door Frame:</b> Supplying & Fixing frames for Fire resistant door shutters Engineered treated hardwood / DVL Frame densified (810 kg/cum) and pressure treated with fire retardant chemicals in vacuum impregnation vessel under 160 psi pressure as per IS:401 and kiln seasoned to moisture below 15% as per IS:1141 of section 120 X 70 mm spray quoted with 2 coats of intumescent paint of minimum 200 micron, with single row of non brush type intumescent strip of size 10mm x 4mm affixed in the slit of the Frame for fire and smoke sealing, etc. complete.
	<b>Shutter:</b> Supplying & Fixing of 55mm thick asbestos free - <b>Integrity and (Full) Insulation</b> composite Fire check Door Shutter complying with with fire performance - FD 120 ID as per IS:3614:2021 (ammendment 2023), Deurcore comprising of 2x8mm Calcium Silicate boards over Chemically treated (with Fire retardant chemicals in vaccum pressure impregnation vessels under 160 psi pressure as per IS:401 and kiln seasoned to moisture below 15% as per IS:1141) internal timber (Engineered treated hardwood / DVL, densified to 810 kg/cum) frame work of 100x32 mm with 32mm thick infill of ceramic fiber (density 128 Kg/cum), vermaculite mix faced with 3mm Fire retardant High Density fibre board, internally lipped with hardwood beading and pasted in Hydraulic Press under 25 MPa, spray quoted with 2 coats of in-tumescent paint of minimum 200 micron, and with single row of non brush type intumescent strip of size 10mmx4mm affixed on periphery for fire and smoke sealing in the slit on all edges of shutter except bottom, without any external lipping.
	<b>Vision Panel:</b> 2 HR rated E Class clear high stress fire rated glass is pre fabricated strategically inside the shutter structure with 10 mm inside the shutter on all sides with U- glazing.