



USI 90 Technical Specifications

When Proofing Matters



GENERAL DESCRIPTION

USI 90 is a unique core blank made from multi-layered dense particleboard board pressed with adhesive. It is engineered to resist fire and acoustic proof, designed for door/shutter assemblies in different configurations.

TYPE & COMPOSITION

Three layered particle board composed of hardwood particles taken from sawmill, joinery residues bonded with compatible adhesive agent, additives and solvents.



APPROVED AND MARKED SIZES

THICKNESS

- 64 mm

SIZES (HEIGHT X WIDTH)

- 2440x1220 mm
- 2200x1050 mm
- 2135x1050 mm
- 2135x915 mm
- Customized sizes upon request with specific quantities.



FIRE PROPERTIES

FIRE INTEGRITY

- 90 Minutes Fire Integrity

INSULATION

- 90 Minutes Insulation Criteria

APPLIED STANDARDS

- BS 476: Part 22
- BS EN 1634-1





ACOUSTIC PROPERTIES

ACOUSTIC PERFORMANCE

- 45 STC



OTHER PROPERTIES



DENSITY
KG/M³ 600±10%



MOISTURE CONTENT
10±2%



COMPATABILITY

FRAME

- Material : Wooden
- Density : 650KG/CU.M (Min)
- Moisture Content : 10±2%
- Material : Metal
- Type : GI AND SS

INTUMESCENT

- Graphite
- Calcium Silicate
- Other types if applicable

VISION PANEL

- With or Without in Metallic Frame
- With or Without in Wooden Based Frame

LIPPING

- Material : Wooden
- Thickness : 3mm (Min)

HARDWARE

- Concealed and Surface Mounted



CERTIFICATIONS AND APPROVALS



الهيئة المصرية العامة للمواصفات والجودة
Egyptian Organization for Standardization and Quality



EN 1634-1



BS 476:22



www.usi.ltd



info@usi.ltd

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