

Polystyrene Insulated Core Doors

Polystyrene Insulated Core Doors are available in standard 18 ga A-40 steel.

For heavy duty commercial and industrial applications 16 ga and 14 ga are available as options.

Standard material is A-40 18 g galvaneal steel.

Options for steel available are A-40 and A-60 galvaneal and G-90 galvanized as well.

Maximum size per leaf is 4'6" x 10'2"

Doors can be made to any fractional width or height Standard Pre-fit sizes unless otherwise noted are :

width - (Nominal Size) - 1/4 " Height-(Nominal Size) - 7/8 Undercut standard is 3/4" unless specified Hardware Locations are Manufactured to your specific location Template must be provided by customer

Fire Rating

Maximum size up to 3 Hour UL Rating UL 10B or UL 10 C

Single - 4'0" x 8'0"

Standard Pair 8'0" x 8'0"

Double egress Polystyrene doors can't be fire labeled

Insulating Factors

The insulating material for the door is Expandable Polystyrene (EPS) panels.

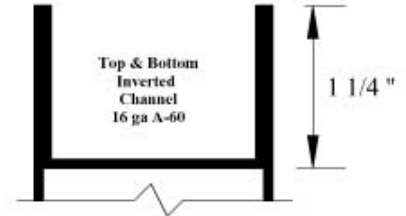
Its density is 1.0 (pcf) with a typical R value of 4.17. (k factor of 0.24 per inch)

The R value is permanent because the cellular contains only stabilized air.

EPS panels are not effected by aging

EPS absorbs less than 2.5% moisture by weight and volume per ASTM C272.

Estimated R value for 1 1/2 polystyrene core is 6.26 %



Both edges are beveled 1/8 " in 2 "

Square edges are available on one or both edges

Doors are constructed w/ mechanical lock seam on both edges Standard Door edges have exposed seams:

Option 1 - Tack weld top and bottom of each edge seam and grind smooth.


Option 2 - Tack weld each edge seam every 6" dress and grind smooth. All Internal Door reinforcements are manufactured with A-40 Galvaneal Steel.

Doors can be prepped for all commercial mortise lock hardware applications and reinforced for all surface and concealed hardware applications per customer supplied template requirements.

The Polystyrene core is laminated to the steel skins of the door with a high bond moisture cured urethane adhesive.

Door Standard Prep

7 gauge Hinge reinforcement 161 or .134 v blank prep
Air Dry high performance gray primer

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