

FEATURES AND BENEFITS:

Spartan Series Doors offer the following standard unique features, which enhance long term performance and durability.

1. Polystyrene core system enhances the structural integrity of the door, while significantly reducing the weight.
2. Full height, epoxy filled mechanical interlock edges provide structural support and stability along the full height of the door edges.
3. Patented universal hinge preparations allow for easy field conversion from standard weight (.134) hinges to heavy weight (.180) hinges.
4. 18 gage top and bottom channels provide stability and protection for the top and bottom edges from abuse.
5. Square hinge and lock edges allow for non-handed options and eliminate handing issues in the field.
6. All steel glass trim provides a clean, neat, and flush finish with the door surface.
7. Factory applied baked on rust inhibiting primer in accordance with ANSI A250.10.
8. Calculated R-Value of 7.14

ABOUT THE PRODUCT:

The Spartan Series Doors are designed to meet the architectural requirements for hollow metal doors. This premium door construction combines the strength and dimensional stability of steel with the structural integrity of the a polystyrene core. The continuous bonding of core to metal provides an attractive flat door, free of face welding marks. Windstorm Tests have proven that the Spartan door has integral high resistance to impact damage, low thermal conductivity, and high STC ratings. To meet application, specification and performance requirements, the Spartan doors offer a wide range of specifiable options including sizes, glass lite designs, hardware (mechanical, pneumatic, electrical) preparations and edge constructions.

SPECIFICATION COMPLIANCE:

1. Door construction for the Spartan Series Hollow Metal Doors meets the requirements of ANSI A250.8-1998 (commonly referred to as SDI-100).
2. Hardware preparations and reinforcements are in accordance with ANSI A250.6-1997. Locations are in accordance with ANSI/DHI A115.

FIRE RATINGS:

The Spartan Series doors meet the broadest fire rating requirements. They are listed for installations requiring compliance to both negative pressure testing (ASTM E152 and UL-10B) and positive pressure standards (UBC 7-2 and UL-10C)

Steel Thickness	Opening	Usage Frequency ¹	Frame Applications
16-Gage Galv anealed ²	Interior & Exterior	Extra-Heavy Duty	16 & 14-Gage Steel Frames
18-Gage Galv anealed ²	Interior & Exterior	Heavy Duty	16-Gage Steel Frames
20-Gage Galv anealed ²	Interior & Exterior	Standard Duty	16-Gage Steel Frames

¹Usage frequency is based on ANSI A250.8-1998

²Reinforcements for galvanized doors are also galvanized

MATERIAL:

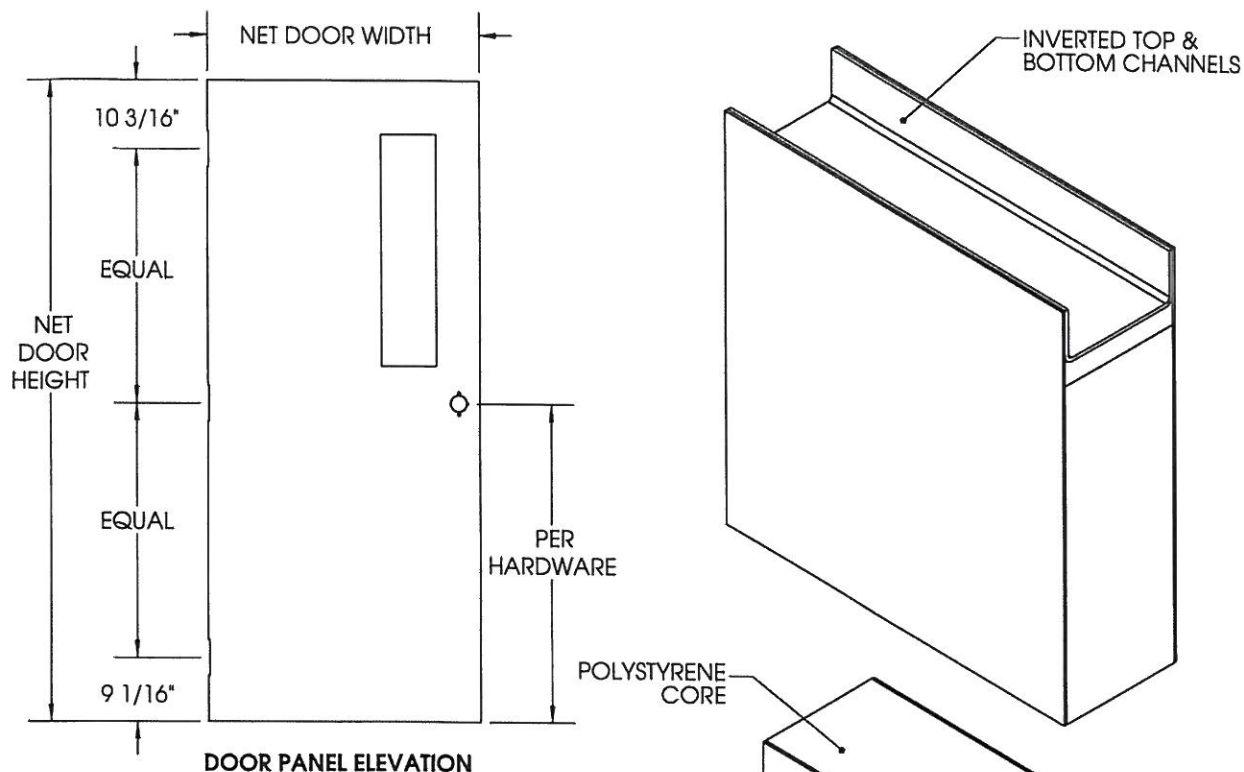
All doors are supplied with a factory applied baked on coat of paint, depending on environmental conditions this factory applied paint may serve as a finished paint or may be finish painted in the field.

Core Material	R-Value	U-Value
Polystyrene	7.14	0.14
Polyurethane	11.01	0.091

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Core Material	STC-Rating
Polystyrene	33
Polyurethane	31

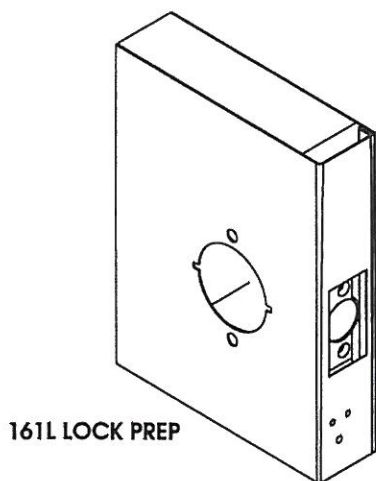


CONSTRUCTION NOTES:

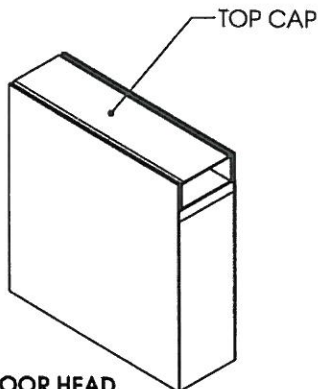
1. Doors are 1 3/4" (45mm) thick.
2. Door opening size maximum:
Single door opening size 4'0" x 8'0" (1219mm x 3048mm)
Double door opening size 8'0" x 8'0" (2438mm x 3048mm)
3. Standard operating clearances (installed in frame):
Head = 1/8" (3mm) to bottom of head or transom panel
Hinge and lock side = 3/32" (2mm) to rabbet on jamb
4. Standard core system:
1.0 lb/ft³ Polystyrene core is laminated to both face sheets with contact adhesive.
5. Hardware preparations: to meet specifications, doors can be prepared for all commercial mortised hardware, and can be factory reinforced for surface applied hardware applications.
 - Lock preps - details and dimensions shown are for cylindrical (ANSI 115.2) type locks or for mortise (ANSI A115.1) locks.

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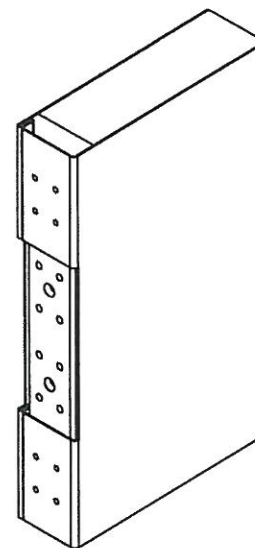
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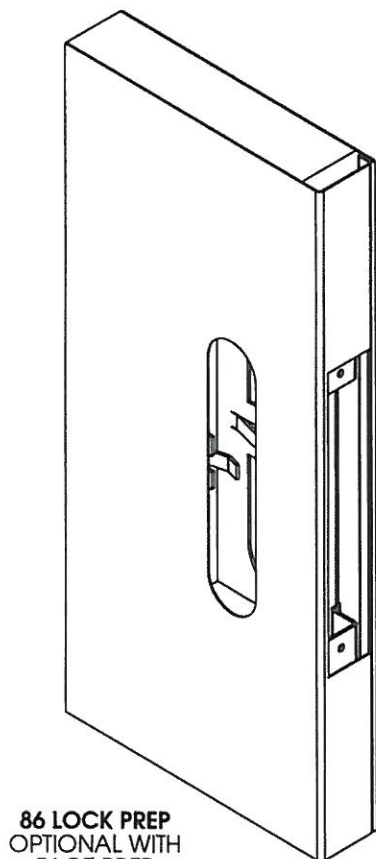
161L LOCK PREP



DOOR HEAD



HINGE PREP



86 LOCK PREP
OPTIONAL WITH
FACE PREP

GENERAL NOTES:

1. Edge construction:
 - Vertical edges (both hinge and lock) are square with a visible seam.
 - Top and bottom edges are closed with inverted 18-gauge welded channels. Exterior applications require the addition of snap-in top caps to protect against the weather.
2. Optional cores available in the Spartan Series door construction:
 - Polystyrene for exterior applications in extreme weather conditions.
 - Polyurethane for exterior applications in arctic weather conditions. Not Fire Rated.
3. Standard hardware preparations: standard mortised and reinforced for:
 - Universal hinge preps - 4 1/2"(114mm) patented preparation which allows easy and quick field conversion from standard to heavy weight hinges.
 - Locks - A multitude of standard lock preps are available. The most commonly used with a 47/8" (124mm) strike are 161, 61L and 86.

INSTALLATION:

1. Installation shall conform to the published installation instructions, SDI 105 Recommended Installation Instructions for Steel Frames, and ANSI/DHI A115-IG Installation Guide for Doors and Hardware.
2. Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The Authority Having Jurisdiction is the final authority in issues related to the installation and use of installed Fire Rated Doors.

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