



# SPARTAN : DOOR

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## DOORS

**TELL MFG** offers a complete line of standard hollow metal doors to fit your needs. **SPARTAN DOORS** are available in 20 and 18 gauge steel. All doors come with a polystyrene core as standard, making every door smoother, flatter, and stronger. **SPARTAN DOORS** are available in a complete range of fire ratings (up to 3 hours) and are certified by Underwriters Laboratories. All door panels are manufactured from high quality galvanized steel and are thoroughly cleaned inside and out to insure excellent corrosion resistance and paint adhesion. **SPARTAN DOORS** come standard with a prime coat, ready to be finished. Factory applied finish coat paint is available in many colors. Contact customer service for pricing and quantities required, for factory finish paint.

## MADE IN USA

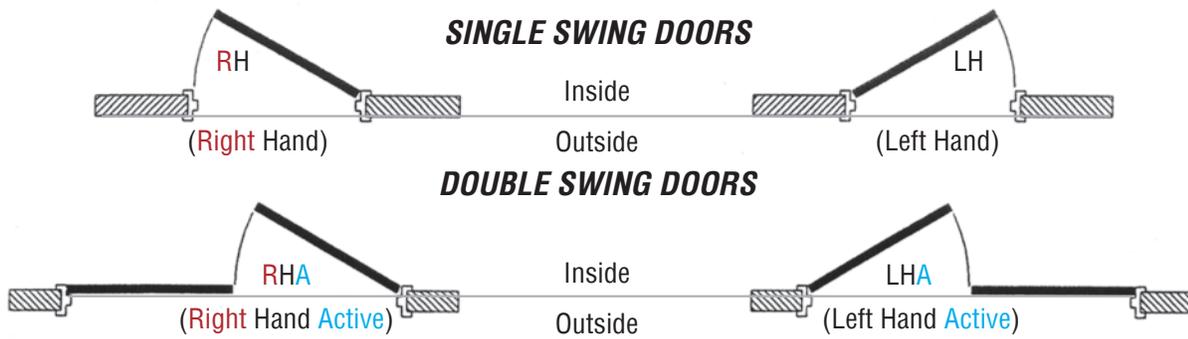
**TELL MFG** follows the same set of performance specifications as other door manufacturers, as set forth in the Steel Door Institute (SDI) requirements.

- Insulated with polystyrene core
- Non-handed
- Galvanized (standard)
- Fire rated up to 3 hours
- 7 gauge hinge reinforcements
- Reinforced 161 lock prep
- Closer reinforcement (standard)
- Meets ANSI standards
- Universal 4 ½" hinge prep
- Inverted top and bottom channel
- Installed steel cap standard

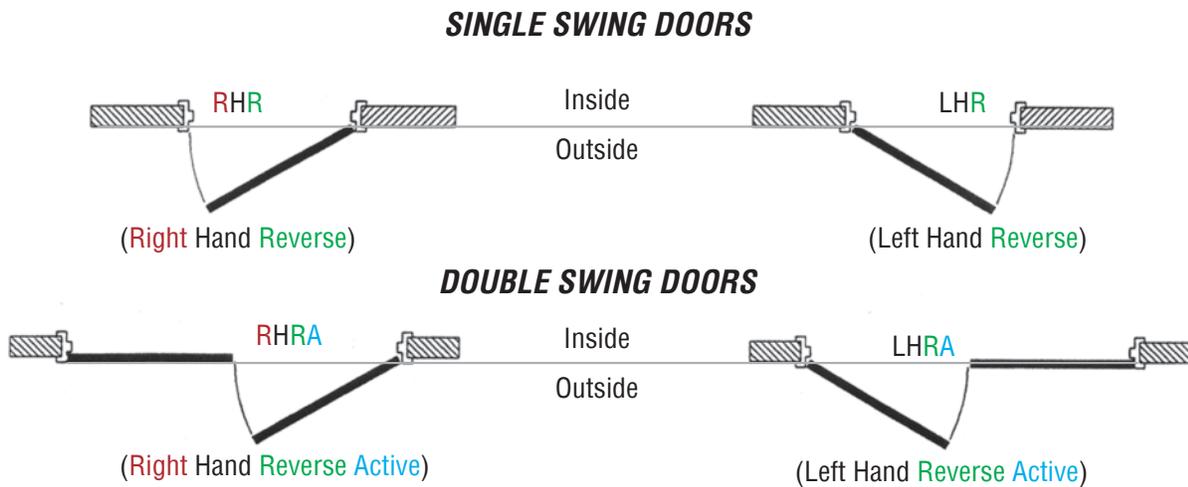
## SPARTAN HOLLOW METAL HANDING CHART

Handing of doors and frames present a problem for many, even within the door industry. The below chart is designed to make your choice easy, reducing the chances of error.

**IN-SWING DOORS**



**OUT-SWING DOORS**



**Non-Handed**



**Polystyrene  
Flush**



**Urethane Flush**

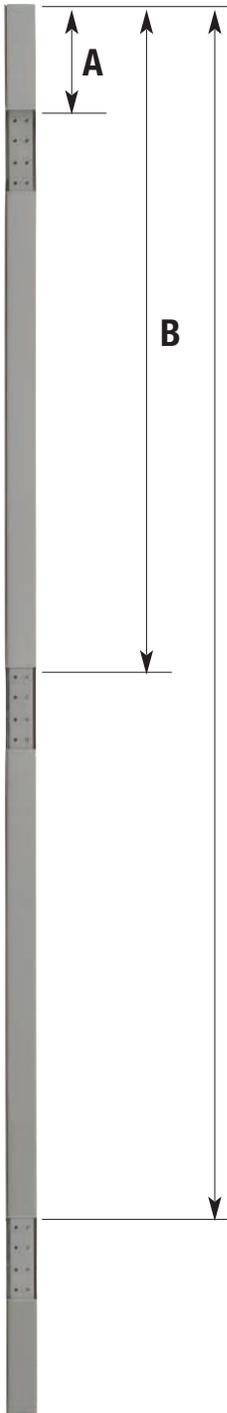


# DOOR DIMENSIONS

TOP



HINGE  
SIDE

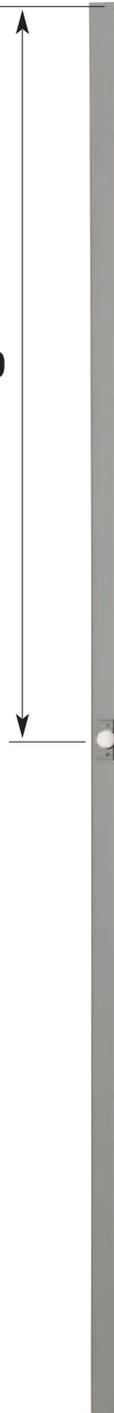


DOOR HEIGHT*	A	B	C	D
6'8"	7-3/8"	37-5/16"	67-1/4"	39-9/16"
7'0"	7-3/8"	39-5/16"	71-1/4"	43-9/16"

**OTHER SIZES AND HINGE LOCATIONS AVAILABLE ON REQUEST**

*\*WITH 3/4" UNDERCUT*

LATCH  
SIDE



BOTTOM





## SPARTAN DOORS COLOR OPTIONS



**BRONZE BZ**  
**(TIOGA)**



**MEDIUM GRAY**  
**(MSD/PRIMER GRAY)**  
**PR**



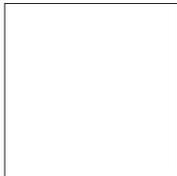
**LIGHT GRAY**  
**(TELSTAR)**  
**GR**



**OFF WHITE**  
**(TELSTAR)**  
**OW**



**TRUE WHITE**  
**(TIOGA)**  
**WH**



**BRIGHT WHITE**  
**(TELSTAR)**  
**BW**

**NO PAINT**  
**NP**

### **NOTE:**

**ACTUAL COLORS MAY VARY FROM THOSE SHOWN DUE TO LIMITATIONS OF THE PRINTING PRODUCTION PROCESS.**

# TECHNICAL DATA SERIES

Rev. 2 - April 6, 2022



## DOORS & FRAMES – 1

- Hollow Metal
- Spartan Series
- Doors

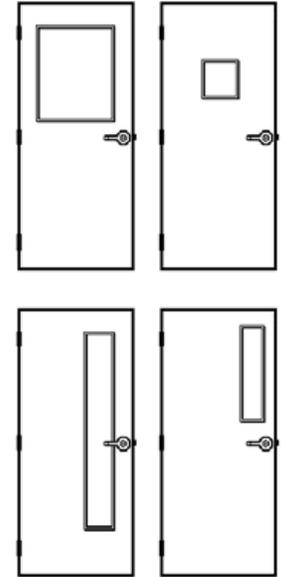
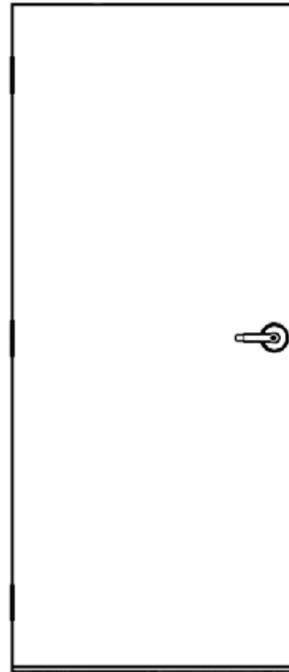
### ABOUT THE PRODUCT

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.

### 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

### 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 offer select options for fire rating to comply with both negative and positive pressure standards (ASTM E152, UL-10B, UBC 7-2 and UL-10C).

Please contact Tell representatives to confirm what options are appropriate for your requirements.

Steel Thickness	Opening	Usage Frequency <sup>1</sup>	Frame Applications
16-Gage Galvanealed <sup>2</sup>	Interior & Exterior	Extra-Heavy Duty	16 & 14-Gage Steel Frames
18-Gage Galvanealed <sup>2</sup>	Interior & Exterior	Heavy Duty	16-Gage Steel Frames
20-Gage Galvanealed <sup>2</sup>	Interior & Exterior	Standard Duty	16-Gage Steel Frames

1. Usage frequency is based on ANSI A250.8-1998 2. Reinforcements for galvanealed doors are also galvanealed

### MATERIAL

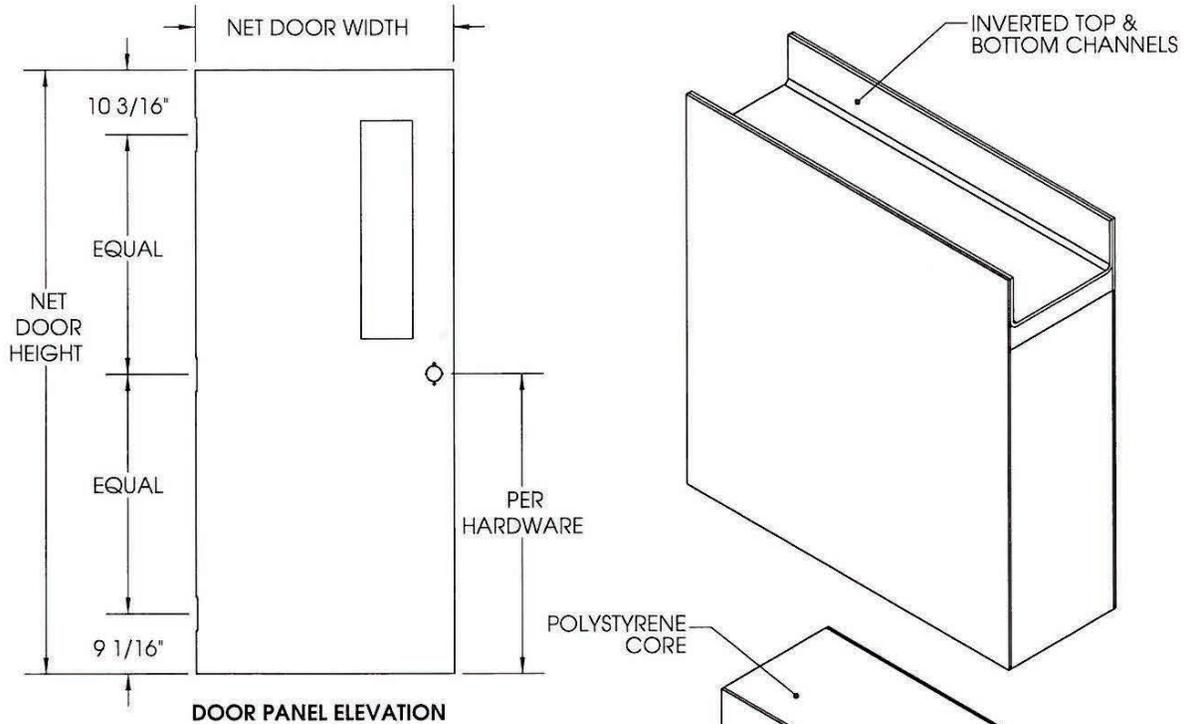
All doors are supplied with a factory applied baked on coat of paint, depending on environmental conditions this factory applied paint may serve as a finished paint or may be finish painted in the field.

### PROPRIETARY AND CONFIDENTIAL

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

Core Material	STC-Rating
Polystyrene	33
Polyurethane	31



**CONSTRUCTION NOTES:**

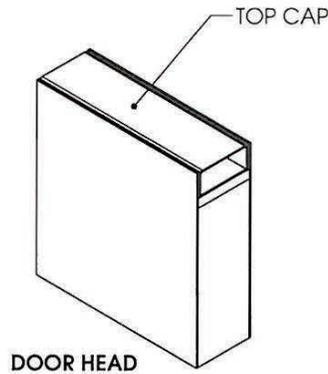
1. Doors are 1 3/4" (45mm) thick.
2. Door opening size maximum:  
Single door opening size 4'0" x 8'0" (1219mm x 3048mm)  
Double door opening size 8'0" x 8'0" (2438mm x 3048mm)
3. Standard operating clearances (installed in frame):  
Head = 1/8" (3mm) to bottom of head or transom panel  
Hinge and lock side = 3/32" (2mm) to rabbet on jamb
4. Standard core system:  
1.0 lb/ft<sup>3</sup> 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.

**PROPRIETARY AND CONFIDENTIAL**

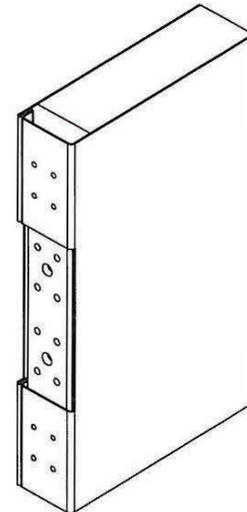
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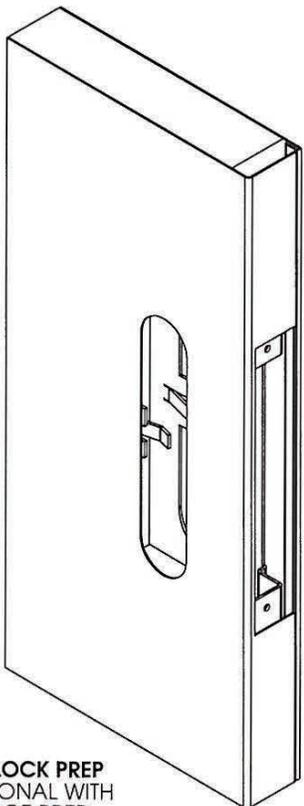
161L LOCK PREP



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-gage 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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## R-U VALUE INSULATION SPECS FOR SPARTAN DOORS, PAGE 1 OF 2

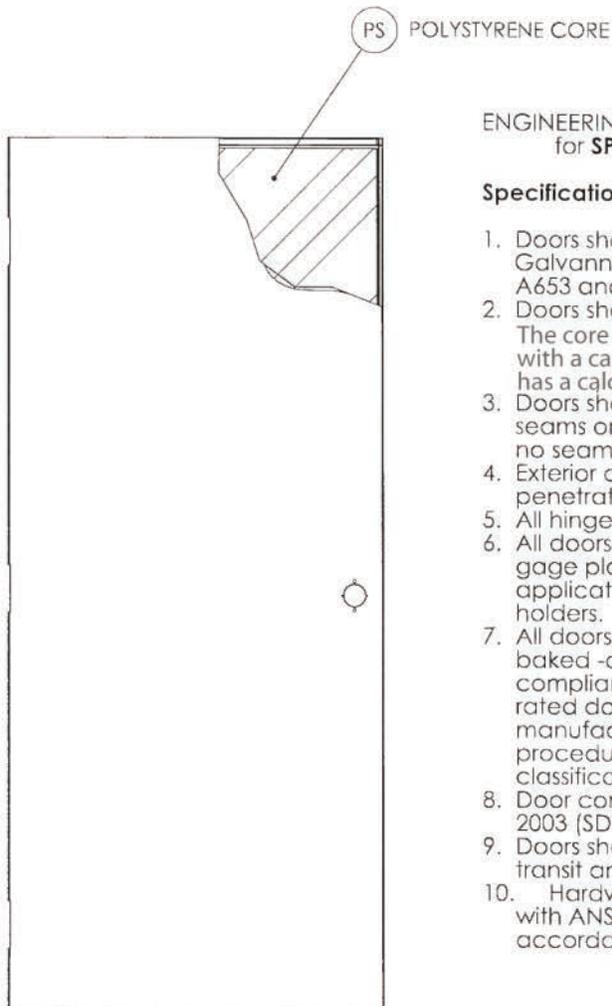
Technical Data Series

Rev. 0 - May 27, 2010



Doors & Frames  
+ Hollow Metal  
+ Doors

1.1



### ENGINEERING DETAILS for SPARTAN, TELSTAR, TIOGA Series Doors

#### Specifications:

1. Doors shall be formed from two 20 or 18 gage Galvannealed Steel per ASTM A924 and A653 and shall be 1-3/4" thick.
2. Doors shall have a core of rigid Polystyrene. The core shall have a nominal density of 1.0 #ft3, with a calculated "R" factor of 7.12. The door panel has a calculated "U" factor of 0.14.
3. Doors shall have vertical mechanical interlocking seams on hinge and lock edges. There shall be no seam on the faces of door.
4. Exterior doors shall be capped to retard moisture penetrating the door.
5. All hinge reinforcements shall be 3/16" thick.
6. All doors shall be internally reinforced with a 12 gage plate both sides of the door for application of surface applied door closures and holders.
7. All doors shall be cleaned and given one coat of baked -on rust- inhibitive metal primer in compliance with ANSI A250.10-2004 12. All fire rated doors, where indicated, shall be manufactured in accordance with UL procedures and bear the appropriate classification mark (label).
8. Door construction complies with ANSI A250.8-2003 (SDI 100)
9. Doors shall be packaged to minimize damage in transit and handling.
10. Hardware reinforcements are in accordance with ANSI A250.6-2003. Locations are in accordance with ANSI/BHMA A156.115



## R-U VALUE INSULATION SPECS FOR SPARTAN DOORS, PAGE 2 OF 2

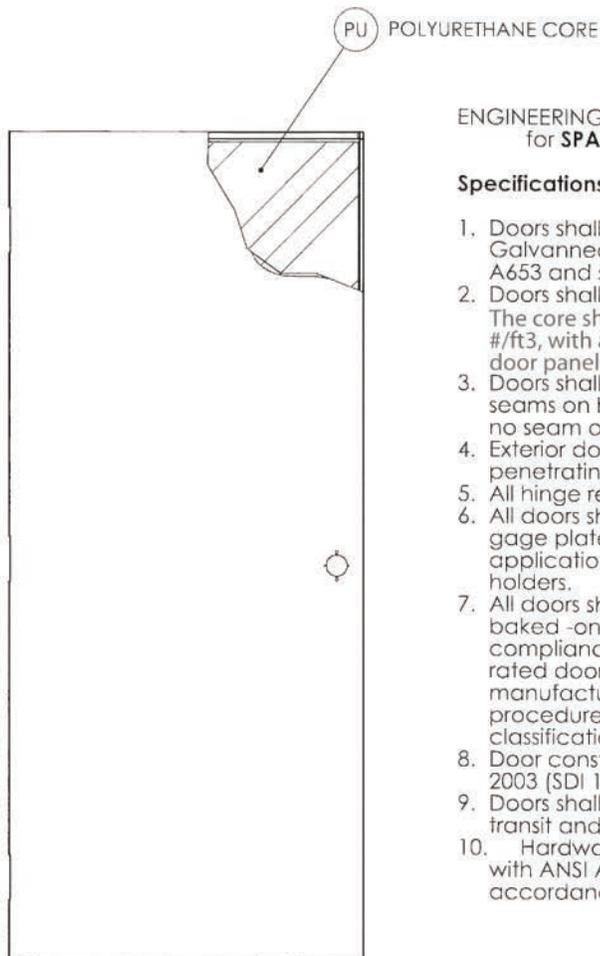
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Doors & Frames  
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### ENGINEERING DETAILS for SPARTAN, TELSTAR & TIOGA Series Doors

#### Specifications:

1. Doors shall be formed from two 20 or 18 gage Galvannealed Steel per ASTM A924 and A653 and shall be 1-3/4" thick.
2. Doors shall have a core of rigid Polyurethane. The core shall have a nominal density of 2.0 #/ft<sup>3</sup>, with a calculated "R" factor of 11.01. The door panel has a calculated "U" factor of 0.091.
3. Doors shall have vertical mechanical interlocking seams on hinge and lock edges. There shall be no seam on the faces of door.
4. Exterior doors shall be capped to retard moisture penetrating the door.
5. All hinge reinforcements shall be 3/16" thick.
6. All doors shall be internally reinforced with a 12 gage plate both sides of the door for application of surface applied door closures and holders.
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# SPARTAN DOOR HOW TO ORDER CHART

## MANUFACTURED STEEL DOOR (MSD SERIES)

**HINGE PATTERN OPTIONS**

**DOOR SERIES**

- DHM** - SPARTAN DOOR / POLYSTYRENE CORE
- DHMU** - SPARTAN DOOR / HOLLOW METAL / URETHANE CORE
- DHMU 3070** - 30" - 3 FEET, 0" INCHES WIDE
- SQ 20A** - 70" - 7 FEET, 0" INCHES TALL
- SQ** - SQUARE EDGE W/ CUT THRU HINGES
- F** - TEXTURED FLUSH
- F** - SMOOTH FLUSH

**DOOR EDGE AND HINGE TYPES**

- DO** - DOMINION / DIAMOND
- NH** - NO HINGE PREP
- TM** - TIMELY
- CU** - CURRIES / PREMIER
- PI** - PIONEER
- CE** - CECO
- AR** - AMWELD REVERSIBLE
- A** - AMWELD / STEELCRAFT / REPUBLIC

**FINISH**

- X** - TEXTURED FLUSH
- F** - SMOOTH FLUSH

**DOOR DESIGNS** - SEE CHART BELOW\*\*

- NCR** - NO CLOSER REINFORCEMENT
- IDB** - INVISIBLE DEAD BOLT PREP
- DB** - DEAD BOLT
- DB** - DEAD BOLT

**OPTIONS**

- NP** - NO PAINT
- WH** - TRUE WHITE (TIOGA)
- BW** - BRIGHT WHITE (TELSTAR)
- OW** - OFF WHITE (TELSTAR)
- GR** - LIGHT GRAY (TELSTAR)
- PR** - MEDIUM GRAY (MSD / PRIMER GRAY)
- BZ** - BRONZE (TIOGA)

**LOCK OPTIONS**

- 161** - STANDARD CYLINDER PREP 2-3/4" BACKSET
- 161L** - ABOVE WITH PROVISION FOR LEVER THRU-BOLTS
- 161WR** - WIND RATED
- 86** - MORTISE BOX WITH OVAL CUT-OUT & MORTISE EDGE PREP
- 00** - MORTISE BOX WITH NO CUT-OUT; MORTISE EDGE PREP ONLY
- B** - BLANK; NO FACE OR EDGE PREP

**PAINT OPTIONS** (ALL COLORS NOT LISTED)

- FLUSH**
- NARROW LITE**
- VISION PANEL**
- HALF GLASS**
- FULL GLASS**

**DOOR HANDING CHART**

**OUT-SWING DOORS SINGLE SWING DOORS**

- RHR** (Right Hand Reverse)
- LHR** (Left Hand Reverse)

**DOUBLE SWING DOORS**

- RHRA** (Right Hand Reverse Active)
- LHRA** (Left Hand Reverse Active)

**\*FIRE RATED DOORS - STANDARD**

- 1.5 HOURS ON 20 GAUGE DOORS
- 3 HOURS ON 18 GAUGE DOORS



## LIMITED WARRANTY

**TELL MANUFACTURING, INC.** and **TELL DOOR AND WINDOWS, LLC**, (henceforth referred to as “TELL” or “Manufacturer”) manufacturers of commercial grade door and frames, hereby offers the following described warranty.

ALL doors and door frames manufactured by the above company(s) carry a full one year warranty. Said product will be free from defects in workmanship and material for a period of one year from date of purchase. This warranty further extends to defects of splitting, cracking or deterioration due to rusting through of the product, from the date of purchase. If during this period a door or frame is found defective in workmanship or material, such claim must be submitted to Tell Manufacturing, 18 Richard Drive, Lititz, PA 17543; Attention: Claims Department. TELL reserves the right to send an approved representative to inspect on site or may require photographs be sent showing the item(s) in question. Upon inspection if the item(s) is deemed defective or faulty, Authorization for repair or replacement will be made at TELL'S option. The item(s) will be provided at no charge to the customer. No warranty is extended by the manufacturer for any field labor, travel time, or freight involving said item(s).

All products must be stored on site, installed properly and maintained in accordance with Manufacturer's instructions. This warranty shall be null and void if the product is not stored, installed properly and maintained pursuant to the Manufacturer's specifications and/or instructions. This warranty does not extend to normal wear or to damage by circumstances beyond the Manufacturer's control and is VOID when any component part or the complete door unit fails, due to the following: alteration, misuse, negligence, accident, improper installation, lightning, water damage, exposure to corrosive fumes or chemicals, condensation, fire, riots, war or any acts of God, or when performance coatings used to finish the door are not suitable. NO WARRANTY is extended by the Manufacturer for broken windows or light frames or for the indirect cost (ie. shipping, field labor) which may be required to repair or replace defective part(s). NO WARRANTY is extended by the Manufacturer for minor scratches, rubs or slight variations in color of doors and frames, as these are not considered defects.

Claims must be made within fifteen (15) calendar days of the discovery of the suspected defect and such notice shall indicate the nature of the defect. The full and proper address, contact name, and telephone number for a return reply must be included. Photographs of the problem should accompany a claim if at all possible. After receiving notification of a claim, a TELL field representative shall be permitted to inspect if needed. Inspection will be performed within a reasonable period of time, and if upon verification a defect due to defective materials or faulty workmanship on the part of the manufacturer is found, and not caused by the aforementioned exclusions, the repair(s) or replacement(s) (Manufacturer's option), exclusive of labor or freight will be made at no cost to the owner.

TELL provides product pre-painted. Each door and frame is carefully constructed of corrosion resistant galvanized/galvalume steel. All door and frame products are factory prefinished with a low gloss industrial quality paint which is designed to meet or exceed the paint requirements for steel doors and frames, as set by the Steel Door Institute. This allows a customer the option of applying a final coat of paint, or no additional painting is required to honor the 1 year warranty. No claim is made that this is to be considered a long term finish/final coat. Manufacturer does not consider minor scratches or rubs to be defects. Variations in color may occur.

Products stored “on site” awaiting building construction, must be uncrated and stored at a minimum incline of thirty degrees to allow for proper drainage and drying. Failure to do so may result in paint adhesion failure. NO WARRANTY is extended by the manufacturer for paint adhesion failure due to improper storage of the product.

**THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED AND ALL OTHER OBLIGATIONS OR LIABILITIES OF TELL MANUFACTURING, INC. AND TELL DOOR AND WINDOW, LLC. THIS WARRANTY NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR TELL ANY OTHER OBLIGATION OR LIABILITIES IN CONNECTION WITH SAID DOORS AND FRAMES. TELL'S LIABILITY SHALL BE LIMITED TO REPLACING OR REPAIRING THE MATERIAL FOUND TO BE DEFECTIVE AND TELL SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGES ARISING OUT OF ANY BREACH OF THIS EXPRESS LIMITED WARRANTY**, including but not limited to, (1) cost of parts, labor and service charges which are performed by others at any time or place, (2) damage to buildings or other property, (3) injuries or damages sustained by any persons whomever, (4) recovery of any direct or indirect costs such as shipping, installation labor charges, paint or painting, (5) other building materials. **ALL CLAIMS UNDER THIS WARRANTY SHALL REQUIRE PROOF OF PURCHASE.**