



Tell Manufacturing, Inc.
COMMERCIAL DOORS & HARDWARE

**CONTACT
TELL MFG**

1-800-433-4047

www.TellMFG.com

fax:1-717-625-7095

CORPORATE OFFICE:
18 RICHARD DRIVE,
LITITZ, PA 17543

OTHER LOCATIONS:
BIRMINGHAM, ALABAMA
MIRA LOMA, CALIFORNIA
ELKHART, INDIANA
HOUSTON & DALLAS, TEXAS

MADE IN AMERICA

SPARTAN

PRE-FINISHED HOLLOW METAL



CORPORATE OFFICE: 18 Richard Drive, Lititz, PA 17543

TOLL FREE: 800-433-4047 **PHONE:** 717-625-2990 **FAX:** 717-625-7095

OTHER LOCATIONS: Birmingham, Alabama Mira Loma, California Elkhart, Indiana Houston & Dallas, Texas

WEBSITE: www.tellmfg.com

SPARTAN DOOR



DOORS

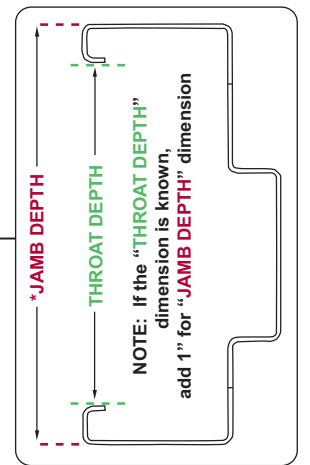
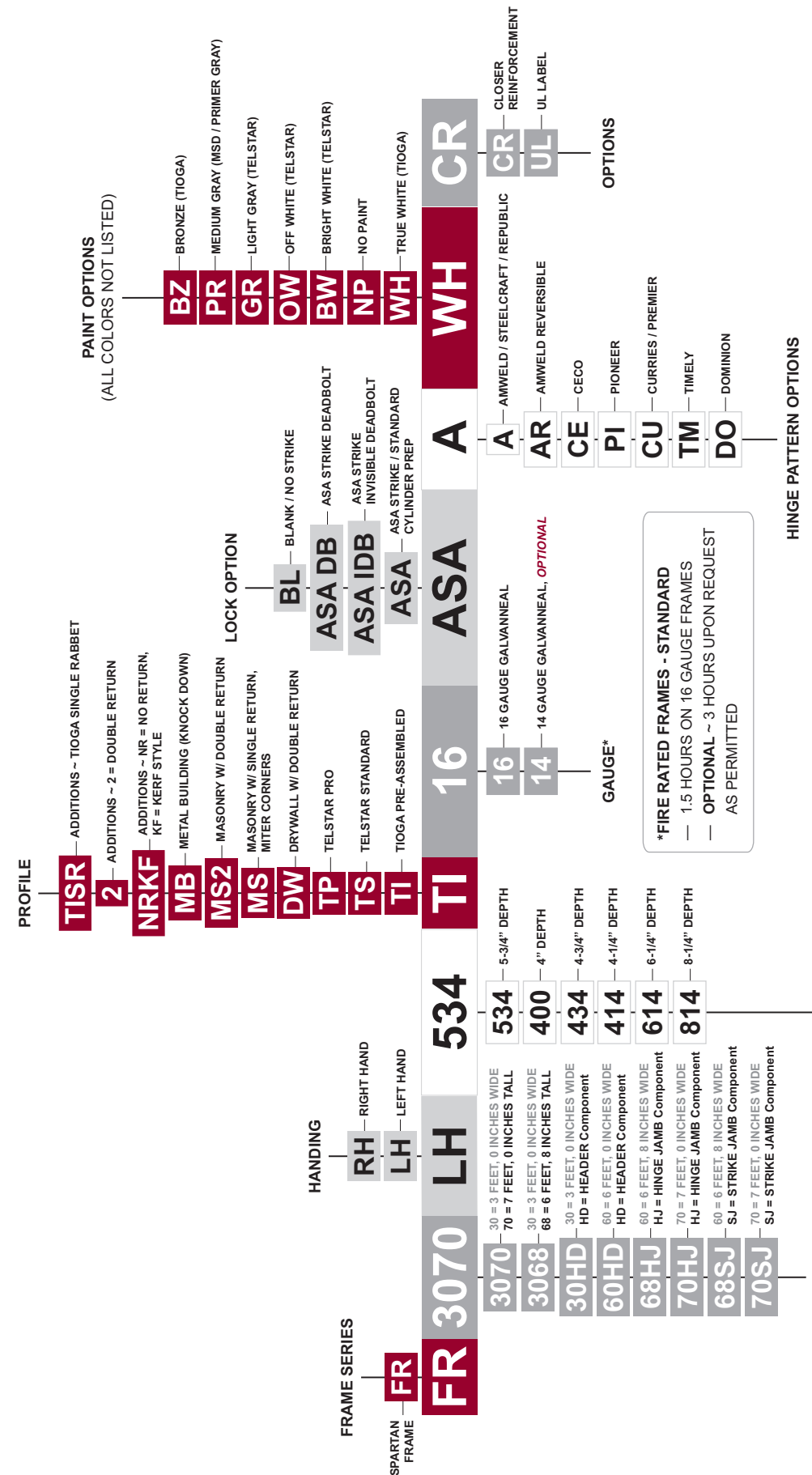
MADE IN USA

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.

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 1/2" hinge prep
- Inverted top and bottom channel
- Installed steel cap standard

SPARTAN FRAME HOW TO ORDER CHART MANUFACTURED STEEL FRAMES (MSD SERIES)





MASONRY FRAMES (MS)

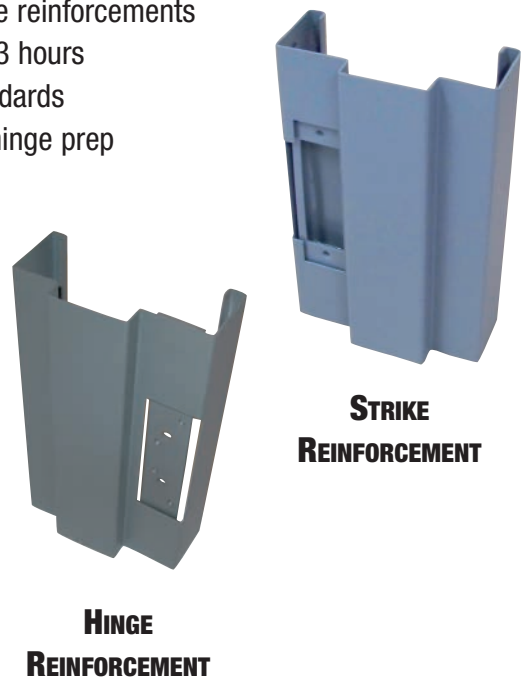
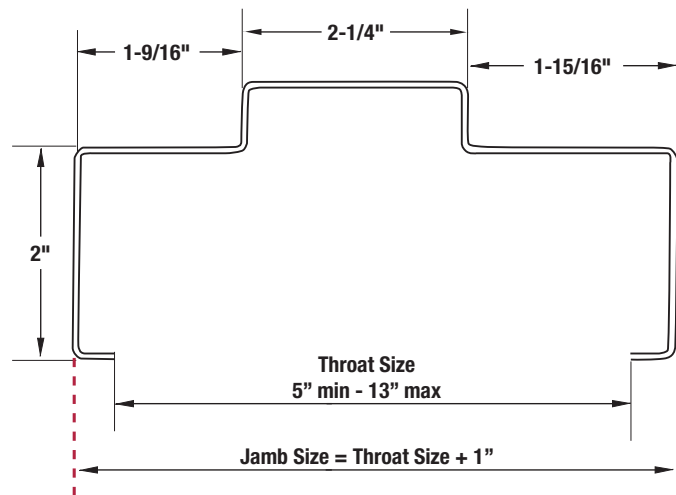
TELL MFG offers **SPARTAN MASONRY FRAMES** in 16 gauge galvanized steel. Frames are knock-down construction designed to be installed as a welded frame, or can be used as non welded. **SPARTAN MASONRY FRAMES** are available for 1 3/4" thick doors as standard. Precision interlocking corners provide a smooth attractive design and allow easy installation. **SPARTAN MASONRY FRAMES** 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.

STANDARD FEATURES:

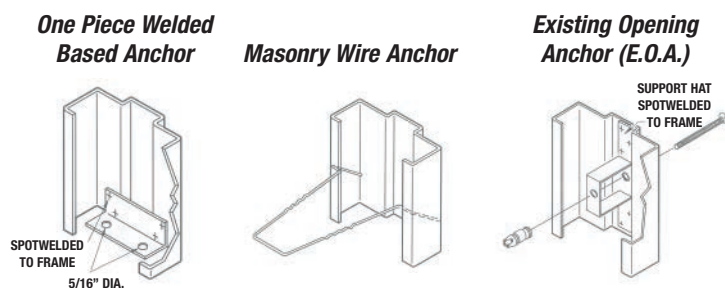
SPARTAN MASONRY FRAMES come with 1/2" returns. Masonry, Wood, and Existing Opening Anchoring (E.O.A.) systems are all available.

- 16 gauge for 1-3/4" doors
- Precision fitted corners
- Galvanized (standard)
- 7 gauge hinge reinforcements
- Heavy duty strike reinforcements
- Fire rated up to 3 hours
- Meets ANSI standards
- Universal 4 1/2" hinge prep

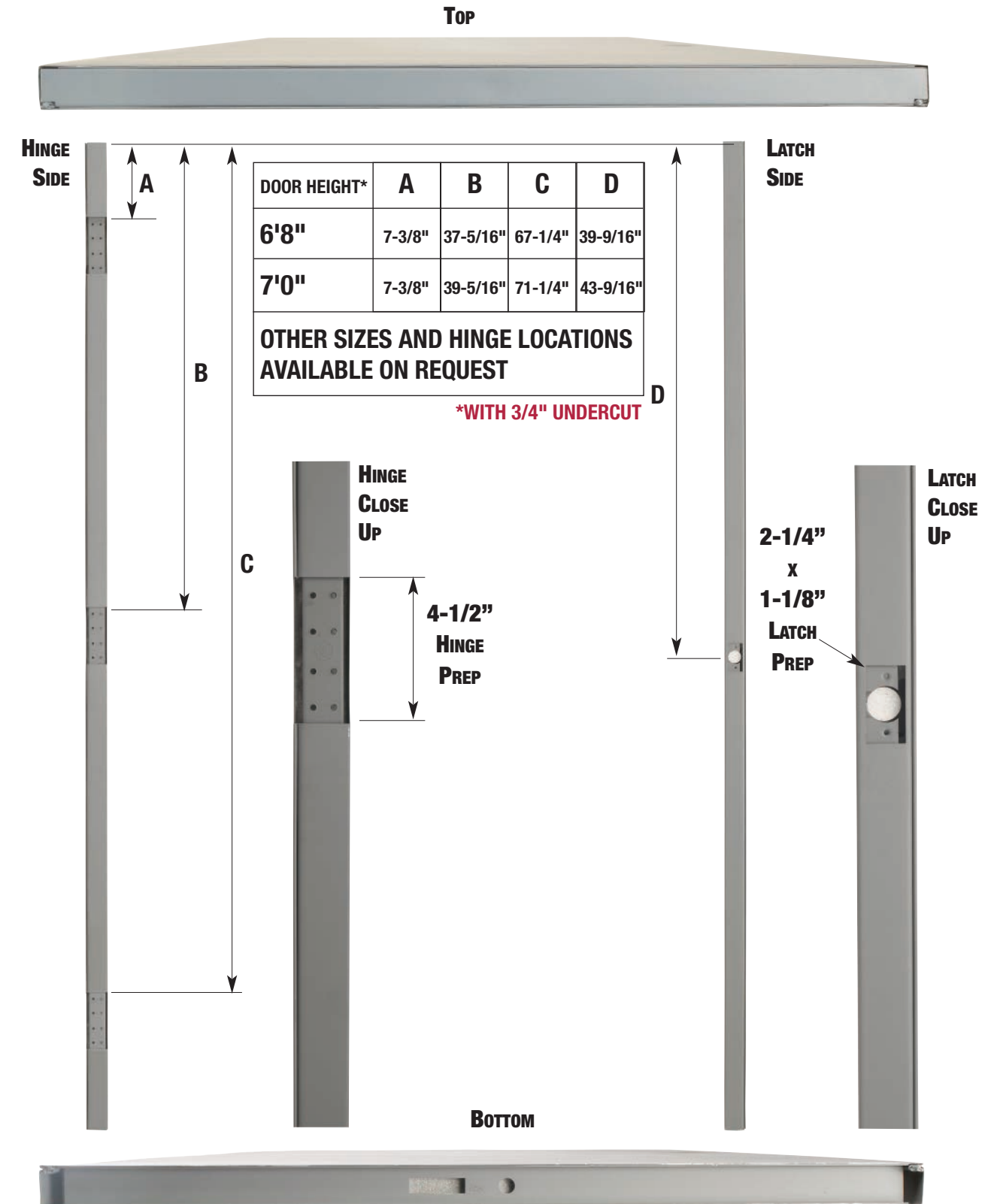
STOCK PROFILE



TYPICAL BASE AND WALL ANCHORS



DOOR DIMENSIONS





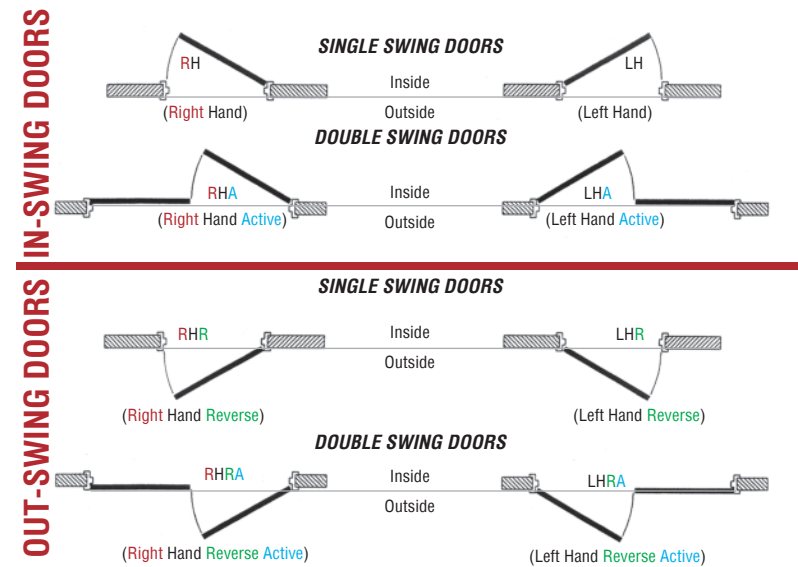
SPARTAN DOORS COLOR OPTIONS



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

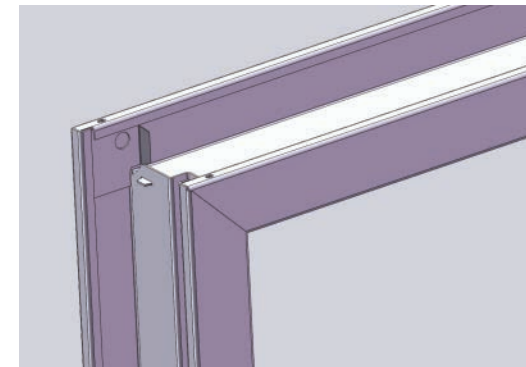
DOOR HANDING CHART

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.



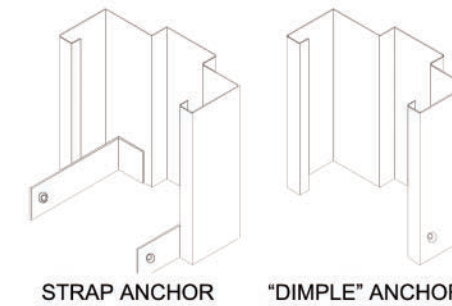
ENGINEERING DATA FOR SPARTAN DRYWALL FRAMES SPECIFICATIONS:

- Will accommodate 1-3/4" doors.
- Frames are manufactured from 16 gage steel, A1008, or Galvannealed ASTM A653.
- Frames are knocked down and field assembled with mitered corner joint. Welded frames are available.

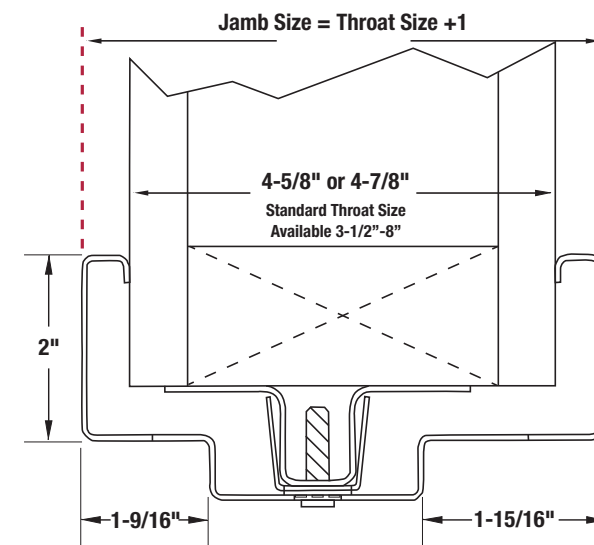


- Integral compression anchors allow easy adjustment.

- Snap-in, strap or dimple base anchors available.



- Head jambs are reinforced with closer reinforcements when required.
- Hinge reinforcements are 10 ga (.125min) steel.
- Strike preparation is 4-7/8 ASA with integral box. Deadbolt strike preps available.
- Hinge and strike locations are available in manufacturers standard locations. Custom locations are available special order.



- Frames are prepped for three silencers per single frames.
- Frames are e-coated with environmentally friendly water base gray. E-coat will serve as primer or top coat. Special colors available on volume orders.
- Shim plate is attached for on-site vertical shimming.
- Fire rating (UL) is available for most sizes.
- Frame structure complies with ANSI A250.8-2003.
- Hardware preparations, reinforcements and locations comply with ANSI A250.6-2003 and ANSI/BHMA A156.115.



DRYWALL FRAMES (DW)

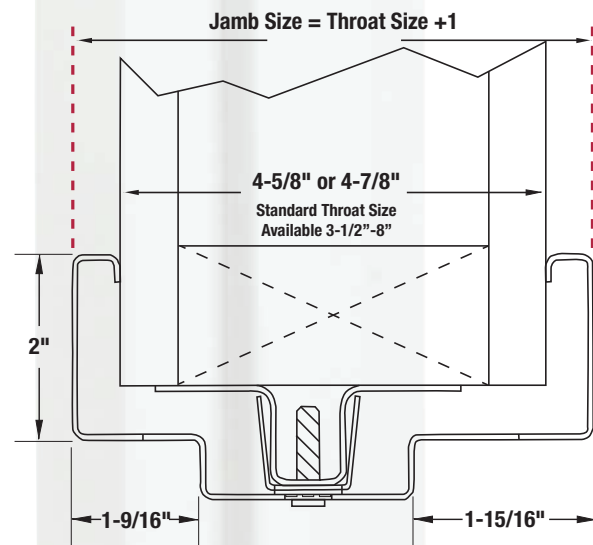
STANDARD FEATURES:

All **SPARTAN DRYWALL FRAMES** come with adjustable compression anchors in each jamb. These anchors provide a tight rigid fit in the opening.

- 16 gauge for 1-3/4" doors
- Precision fitted corners
- Galvannealed (standard)
- 7 gauge hinge reinforcements
- Heavy duty strike reinforcements
- Fire rated up to 1-1/2 hours. Available on frame openings up to 8'-0" high and 3'-8" wide single door, 7'-4" double door.
- Meets ANSI standards
- Universal 4 1/2" hinge prep



TYPICAL WALL CONSTRUCTION
Unequal Rabbet Frame



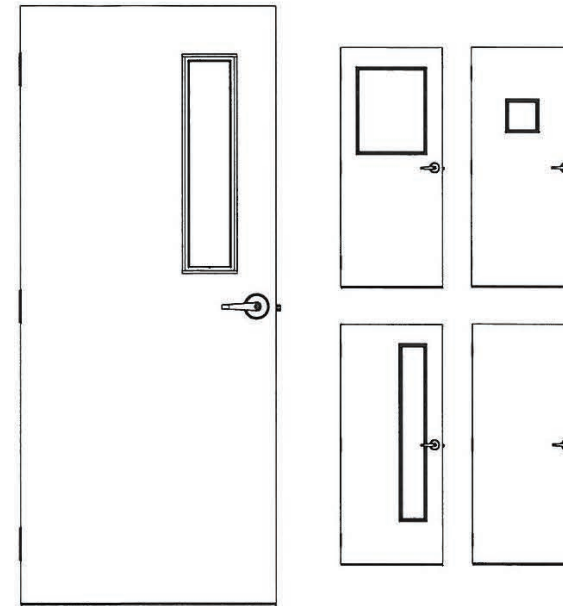
COMPRESSION ANCHOR



Doors & Frames
+ Hollow Metal
+ SPARTAN SERIES
+ Doors
1

Technical Data Series

Rev. 1 - June 6, 2011



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 galvannealed doors are also galvannealed

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

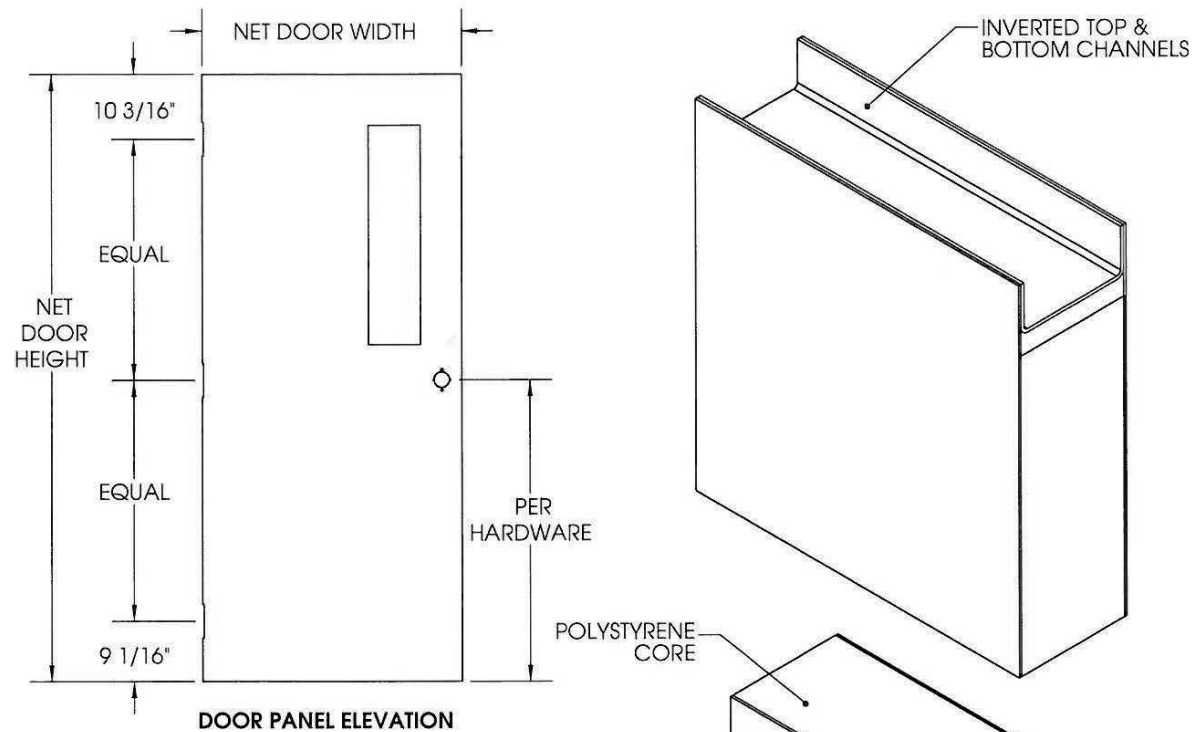


Technical Data Series
Rev. 0 - April 15, 2010



Doors & Frames
+ Hollow Metal
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+ Doors
2

Tell Manufacturing, Inc.
COMMERCIAL DOORS & HARDWARE



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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Tell Manufacturing, Inc.
COMMERCIAL DOORS & HARDWARE

SPARTAN SPARTAN

FRAMES DRYWALL & MASONRY

FRAMES DRYWALL & MASONRY



MADE IN USA

FRAMES

TELL MFG offers **SPARTAN FRAMES** in 16 gauge galvanized steel. Frames are knock-down construction and are designed to be installed on standard and non-standard wall sizes over pre-finished or unfinished drywall. **SPARTAN** steel frames are available for 1-3/4" thick doors. They have precision mitered corners, providing a smooth attractive design and easy installation. **SPARTAN FRAMES** 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.

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



SPARTAN DOOR HOW TO ORDER CHART

MANUFACTURED STEEL DOOR (MSD SERIES)



HINGE PATTERN OPTIONS

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

DOOR DESIGNS *SEE CHART BELOW***

NCR—NO CLOSER REINFORCEMENT
IDB—INVISIBLE DEAD BOLT PREP
DB—DEAD BOLT

DOOR SERIES

DHM—SPARTAN DOOR HOLLOW METAL / POLYSTYRENE CORE
DHMU—SPARTAN DOOR HOLLOW METAL / URETHANE CORE

DOOR EDGE AND HINGE TYPES

SQ—SQUARE EDGE W/ CUT THRU HINGES

FINISH

X—TEXTURED FLUSH
F—SMOOTH FLUSH

SIZE

3070—30 = 3 FEET, 0 INCHES WIDE / 70 = 7 FEET, 0 INCHES TALL

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

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)

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)

GLASS OPTIONS

FLUSH
NARROW LITE
VISION PANEL
HALF GLASS
FULL GLASS

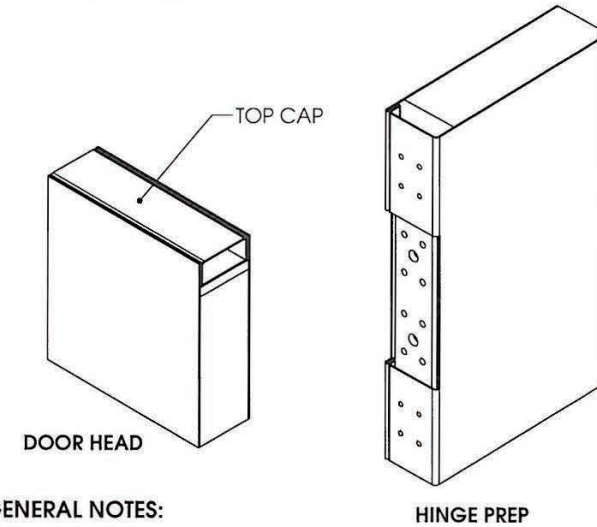
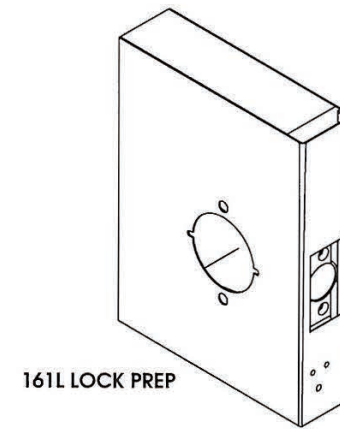
***DOOR DESIGNS / WINDOW OPTIONS (ALL OPTIONS NOT LISTED, PLEASE CONTACT CUSTOMER SERVICE FOR MORE OPTIONS)**

Technical Data Series

Rev. 0 - April 15, 2010



Doors & Frames
+ Hollow Metal
+ SPARTAN SERIES
+ Doors
3

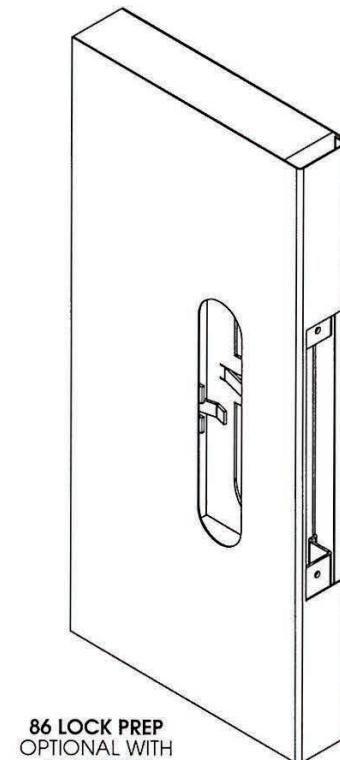


GENERAL NOTES:

- 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.
- 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.
- 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:

- 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.
- 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

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

Technical Data Series
Rev. 0 - May 27, 2010

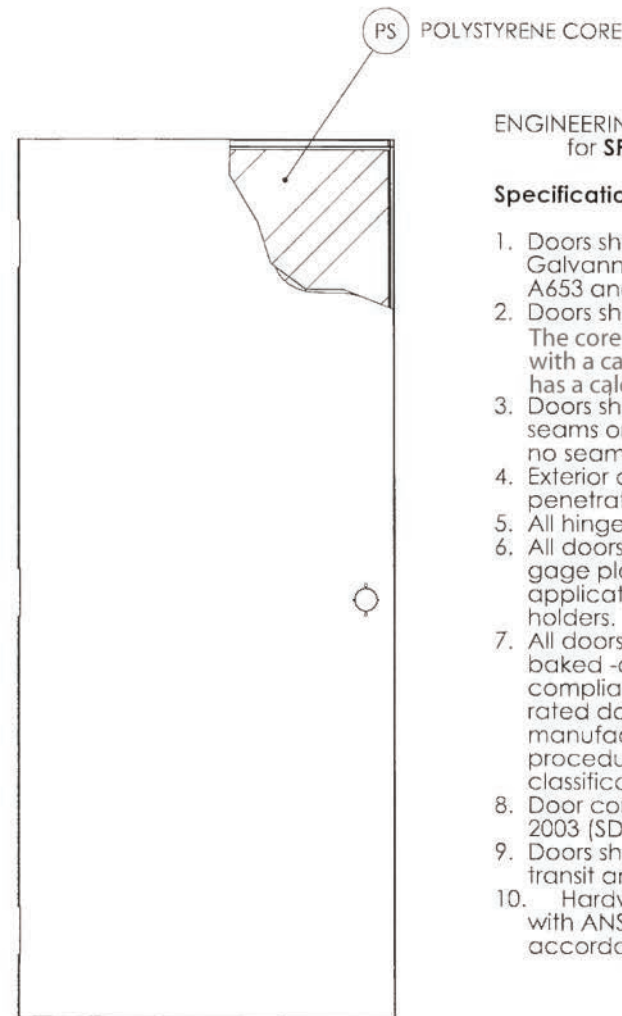


Doors & Frames
+ Hollow Metal
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1.1

Technical Data Series
Rev. 0 - May 27, 2010



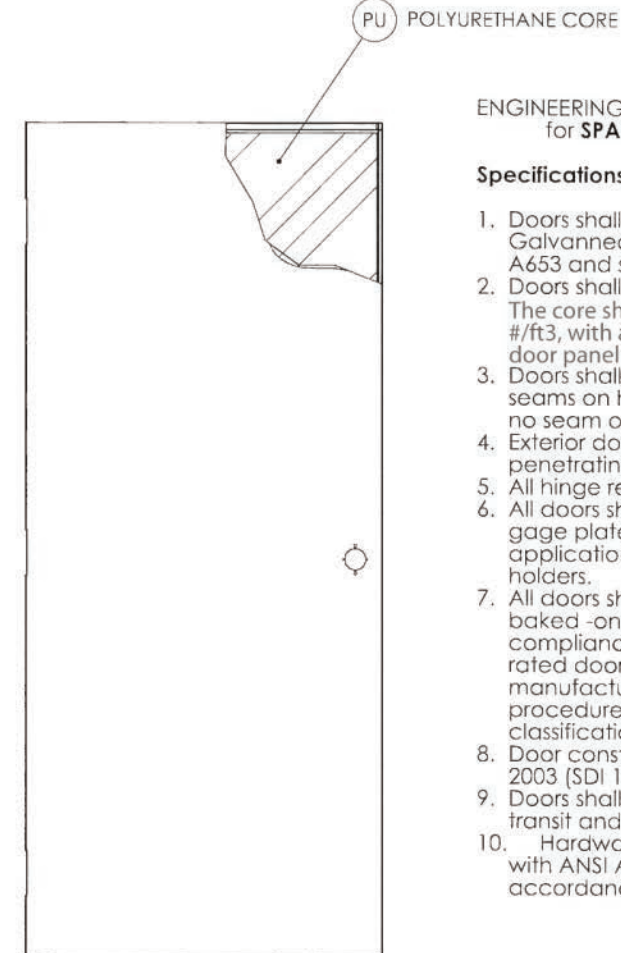
Doors & Frames
+ Hollow Metal
+ Doors
1.1



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



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 #/ft³, 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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