

## DOORS - DP SERIES

**Republic**  
DOORS AND FRAMES

### TECHNICAL DATA SHEET No. 101

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DP Series Doors as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201.

**Thickness** - 1-3/4"

**Actual Door Size** - Door undersized from nominal by 7/32" in width and 7/8" in height. Standard undercut is 3/4".

**Hinge Rail & Reinforcement** - Hinge edge is non-beveled with 1/4" standard hinge backset. 7 gage Universal standard / heavy weight reinforcements.

**Lock Rail** - Lock edge is beveled. 14 gage reinforcement for mortise lock, 16 gage for cylindrical locks are of an integral type in accordance with ANSI A115 Standards. (Beveled lock edge 1/8" in 2" standard.)

**Edge Seams** - Visible seam

**Top Channel** - Flush, 16 gage channel, projection welded at a maximum 2-1/2" on center. (Optional - Inverted)

**Bottom Channel** - Inverted 16 gage channel, projection welded at a maximum 2-1/2" on center.

**Cores Available** - Honeycomb or Polystyrene.

**Face Skins** - 20 gage or 18 gage, cold rolled or galvanized steel.

**Closer Reinforcement (Option)** - 14 gage standard / 12 gage optional. (18" x 6")

**Size Availability** - Minimum 2'6" x 6'8", Maximum 4'0" x 8'0"

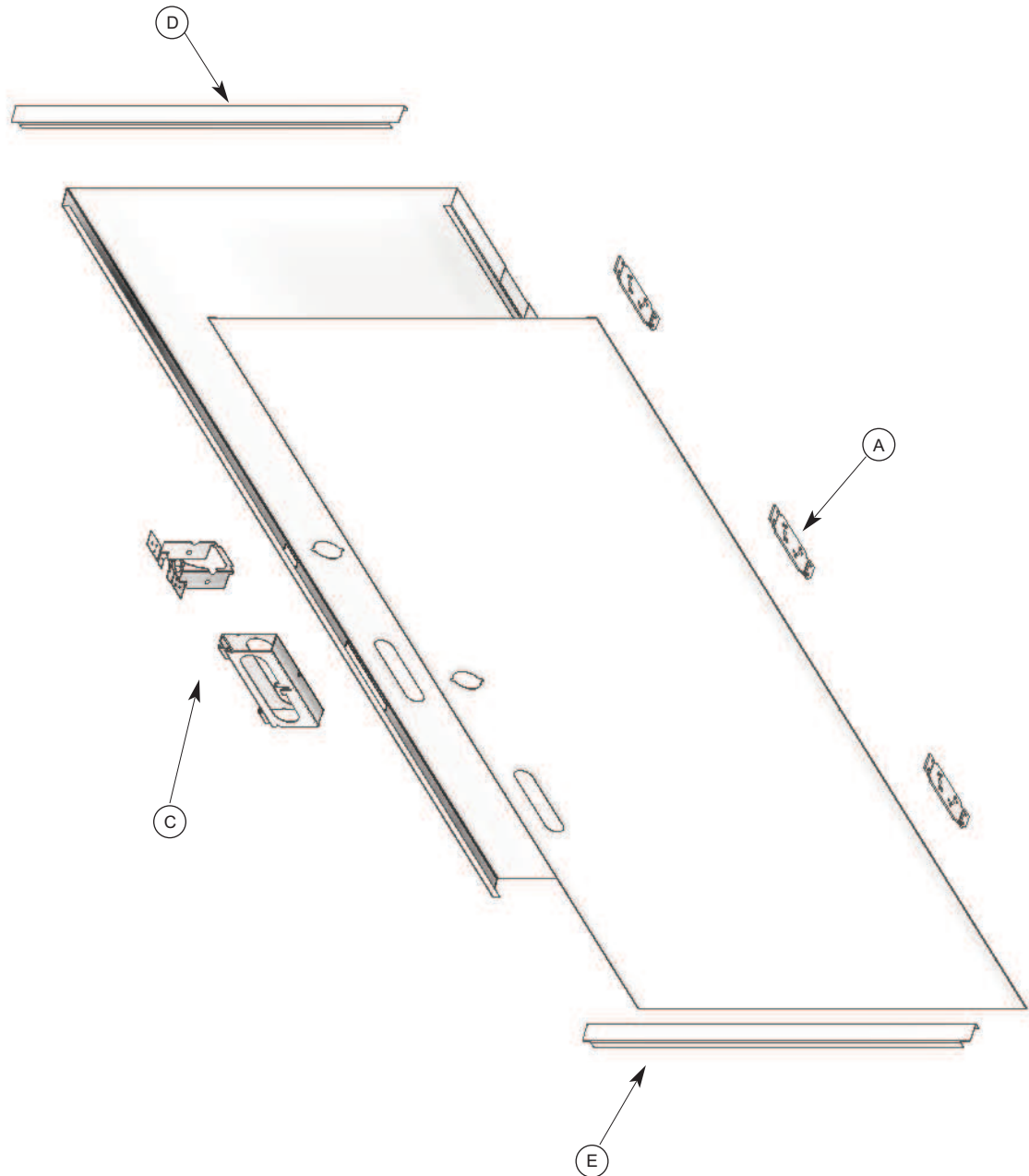
**SDI 100 Level/Model** - Level 1 Model 1 (Standard Duty, minimum 20 gage, hollow steel composite)  
Level 2 Model 1 or 2 (Heavy Duty, minimum 18 gage, hollow steel composite)

**Handing Design** - Handed

Revised 7/15

- I. DP Series Doors as manufactured by Republic Doors and Frames, McKenzie, TN 38201 have been tested or adhere to the criteria set forth by the following published standards:
- A. ANSI A250.8-1998 (SDI 100) - Recommended Specifications -Standard Steel Doors & Frames; Steel Door Institute.
  - B. ANSI A250.4 - Test Procedure & Acceptance Criteria for Physical Endurance for Steel Doors & Hardware Reinforcings.
  - C. SDI 111 - Recommended Standard Details - Steel Doors & Frames. D. SDI 112 - Zinc Coated Standard Steel Doors and Frames.
  - E. SDI 113 - Test Procedure and Acceptance Criteria for Acoustical Performance for Steel Door and Frame Assemblies.
  - F. ASTM A366/A366M - Standard Specification for Steel, Sheet, Carbon, and High Strength, Low Alloy, Hot Rolled and Cold Rolled, General Requirements.
  - G. ASTM A568/A568M - Standard Specification for Steel, Sheet, Carbon and High Strength, Low- Alloy, Hot Rolled and Cold Rolled, General Requirements For.
  - H. ASTM A569/A569M - Standard Steel Specification for Steel, Carbon (0.15 Maximum Percent), Hot Rolled Sheet and Strip Commercial Quality.
  - I. ASTM A591/A591M - Standard Steel Specification for Steel Sheet, Electrolytic Zinc-Coated, for Light Coating Mass Applications.
  - J. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanized) by Hot Dipped Process.
  - K. ANSI A151.1 - Performance Test for Steel Doors, Hinge, Lock and Exit Device Reinforcing.
- II. Door Construction
- A. Doors are either 20 or 18 gage steel. Door design is a pan and lid construction. The lid has a flattened hemmed edge that is projection welded to the pan.
  - B. Top Channel will be 16 gage, flush with the top of the door and will be projection welded on maximum 2-1/2" centers to each face sheet.
  - C. Bottom Channel will be 16 gage, inverted and will be projection welded on maximum 2-1/2" centers to each face sheet.
  - D. Hinge Side - Square edge design with cutouts in pan. 7 gage hinge reinforcements welded in at each cutout.
  - E. Lock Side - Beveled edge design. Mortise lock reinforcements are 14 gage. Cylindrical lock reinforcements are 16 gage.
  - F. Cores: (Per ASTM C1363)
    - 1. Standard - 3/4" cell honeycomb with a "U" factor of .59.
    - 2. Optional Cores- 1 lb. density expanded Polystyrene per with a "U" factor of .41.
- III. Door Finish
- Doors will be cleaned and phosphatized with one coat of force-cured grey primer applied in accordance with ANSI A224.1-1990 or ASTM specification B117 for finishes capable of passing 120 hour salt spray test and a 240 hour humidity test in compliance with ASTM D1735.
- SDI Classifications:
- Level 1 Model 1 (Standard Duty, minimum 20 gage, hollow steel composite)
  - Level 2 Model 1 or 2 (Heavy Duty, minimum 18 gage, hollow steel composite)

Revised 7/15



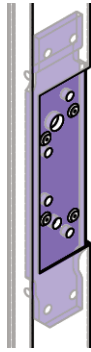
Beveled 1/8" in 2"  
(lock side only)

**NOTE:**  
See Details on  
back of page.

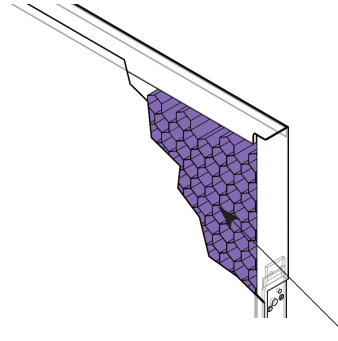
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HINGE EDGE OF PAN

A



7 gage reinforcement at hinge locations  
Shown: 4-1/12" hinges on 1-3/4" doors



3/4" Cell  
Honeycomb Core  
U Factor of .59  
(Per ASTM C1363)

Other cores available  
please specify.

C

LOCK EDGE OF PAN



14 gage mortise lock reinforcement  
with provisions for Gov't Series 86  
mortise lockset and ANSI A115.1  
lock front (1-1/4" x 8")

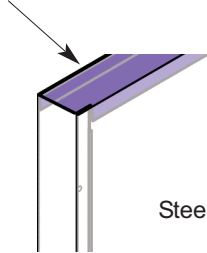


16 gage steel  
cylindrical lock  
reinforcement with  
provisions for  
Gov't Series 160  
or 161 cylindrical  
lock sets (2-3/4"  
backset) and  
ANSI A115.2 lock  
front (1-1/8" x 2-1/4")

D

Continuous 16 gage  
steel channel  
(standard flush)

TOP CHANNEL



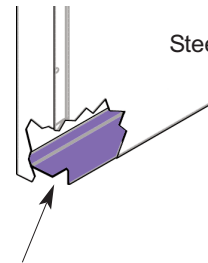
Steel Panel

14 gage closer reinforcement when requested;  
12 gage optional

E

BOTTOM CHANNEL

Steel Panel



Continuous 16 gage  
steel channel  
(standard inverted)

Approximate depth 9/16"