

DE Series Doors shall be as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201.

Thickness - 1-3/4" or 1-3/8" (14 gage door thickness = 1-13/16" (\pm 1/16")) Verify frame backset retrofit openings.

Actual Door Size - Door undersized from nominal by 1/4" in width and 7/8" in height. Standard undercut is 3/4".

Hinge Rail & Reinforcement - Hinge edge is non-beveled and reinforced with a continuous 10 gage steel channel (14 gage steel channel on 1-3/8" door thickness) projection welded at a maximum 5" on center. (Backset 1/4")

Lock Rail - Lock edge is non-beveled and reinforced with a continuous 14 gage steel channel projection welded at a maximum 5" on center. 16 gage reinforcements for mortise or cylindrical locks are of an integral type in accordance with ANSI A115 Standards. (Beveled lock edge 1/8" in 2" optional.)

Top Channel - Top Channel is a flush 16 gage channel, projection welded at a maximum 2-1/2" on center.

Bottom Channel - Bottom Channel is an inverted 16 gage steel channel, projection welded at a maximum 2-1/2" on center.

Cores Available - 3/4" Cell Honeycomb, Polystyrene, Urethane, Steel Stiffened (20 gage standard) or 250 degree Temperature Rise

Face Skins - Cold Rolled Steel or Galvannealed, 20, 18, 16 or 14 gage.

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

Size Availability - Minimum 1'0" x 1'0", Maximum 5'0" x 10'0" (maximum 20 gage = 3'0" x 7'0")

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)
Level 3 Model 1 or 2 (Extra Heavy duty minimum 16 gage, hollow steel composite)
Level 4 Model 1 or 2 (Extra Heavy duty, minimum 14 gage, hollow steel composite)

Label Range - Consult Label Section.

Continuous Welded Seam - Option - (Maximum Size 5'0" x 10'0"; Minimum Size 2'0" x 2'0"; Gages: 18, 16 & 14)

Universal Standard/Heavy Weight Hinge - Hinge fillers are used allowing for an easy modification from standard to heavy weight hinge prep.

Handing Design - Non-Handed (Handed optional)

Revised 8/16

DE SERIES - SPECIFICATIONS

TECHNICAL DATA SHEET No. 102a

- I. DE 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 (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. NFPA 80 - Standard for Fire Doors and Windows.
 - L. ANSI A151.1 - Performance Test for Steel Doors, Hinge, Lock and Exit Device Reinforcing.

II. Door Construction

- A. Doors will be constructed of 20, 18, 16 or 14 gage steel.
- B. Top Channel is 16 gage and will be flush with the top of the door. Channel will be projection welded on 2-1/2" centers to each face sheet.
- C. Bottom Channel is 16 gage and will be inverted. Channel will be projection welded on 2-1/2" centers to each face sheet.
- D. Hinge reinforcing will be a full height 10 gage channel (14 gage steel channel on 1-3/8" door thickness), projection welded to both face sheets with a maximum of 5" on center.
- E. Lock edge is non beveled and is continuous. 16 gage reinforcements are available with provisions for government series 86 mortise lockset and ANSI A115.1 lock fronts.
- 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 with a "U" factor of .41
 - 2 lb Polyurethane with a "U" factor of .39
 - 250° Temperature Rise Mineral Fiberboard capable of withstanding a maximum of 250° temperature rise in 30 minutes with a "U" factor of .56.
 - Steel Siffened Core (20 gage stiffeners-standard) with mineral wool or fiber glass batting between stiffeners with a "U" factor of .61.

III. Door Finish

Doors will be cleaned and phosphatized with one coat of force-cured grey primer applied. Doors comply with ANSI A224.1-1990 or ASTM specification B117. Finishes are capable of passing 120 hour salt spray test and a 240 hour humidity test in compliance with ASTM D1735.

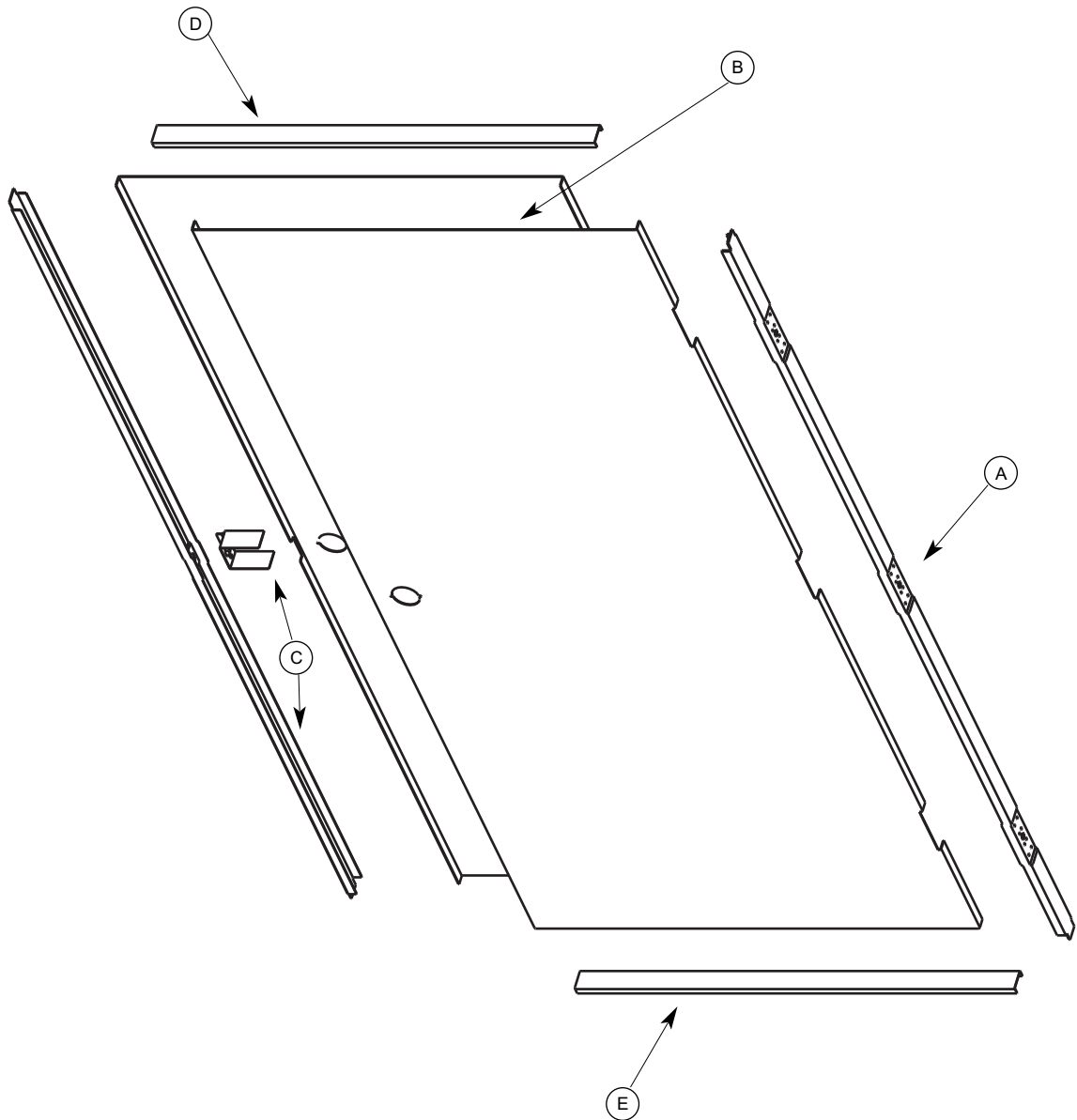
SDI Classifications:

- 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)
- Level 3 Model 1 or 2 (Extra Heavy Duty minimum 16 gage, hollow steel composite)
- Level 4 Model 1 or 2 (Extra Heavy Duty, minimum 14 gage, hollow steel composite)

Revised 8/16

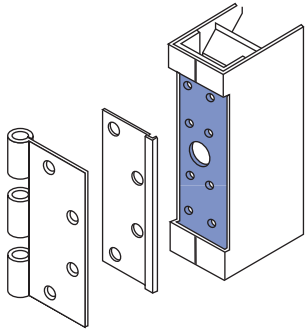
DE SERIES - DOOR CONSTRUCTION DETAILS

TECHNICAL DATA SHEET No. 102b



Revised 9/14

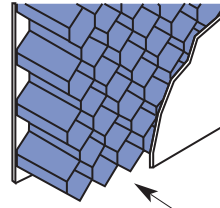
NOTE:
See Details on
back of page.

A

Continuous 10 gage steel channel
compatible with 4-1/12" or 5" full
mortise template hinges on 1-3/4" doors

or

Continuous 14 gage steel channel
compatible with 3-1/2" x 3-1/2" full
mortise template hinges on 1-3/8" doors

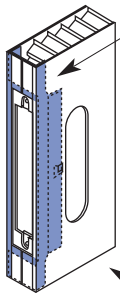
B

3/4" Cell
Honeycomb Core
(Standard)
U Factor of .59

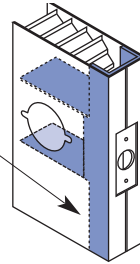
Other cores available
please specify.

C

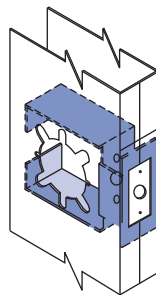
14 gage continuous lock channel



16 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")



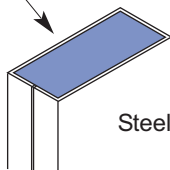
Lever Lock Prep - 161 DT (Modified 161
Prep) Conforms with the ANSI 115.18 161
lever lock specifications.

WARNING: Use rose trim with a minimum
diameter of 3-5/16" to cover prep.

D

Continuous 16
gage steel channel
(standard flush)

DOOR TOP



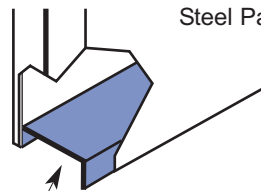
Steel Panel

When closer reinforcements
requested 14 gage standard /
12 gage optional

E

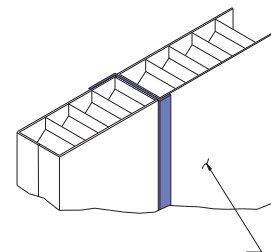
DOOR BOTTOM

Steel Panel



Approximate depth 9/16"

Continuous 16 gage
steel channel
(standard inverted)



Astragal for double doors
(optional)

BULLET RESISTANT DOORS**TECHNICAL DATA
SHEET No. 102c**

Bullet Resistant Doors shall be as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201. Tested in accordance to UL752 Ballistics Standards.

Thickness - 1-13/16" (+/- 1/16")

Actual Door Size - Door undersized from nominal by 1/4" in width and 7/8" in height. Standard undercut is 3/4".

Hinge Rail & Reinforcement - Hinge edge is non-beveled and reinforced with a continuous 10 gage steel channel projection welded at a maximum 5" on center. (Backset 1/4")

Lock Rail - Lock edge is non-beveled and reinforced with a continuous 14 gage steel channel projection welded at a maximum 5" on center. 16 gage reinforcements for mortise or cylindrical locks are of an integral type in accordance with ANSI A115 Standards. (Beveled lock edge 1/8" in 2" optional.)

Top Channel - Top Channel is a flush 16 gage channel, projection welded at a maximum 2-1/2" on center.

Bottom Channel - Bottom Channel is an inverted steel 16 gage channel, projection welded at a maximum 2-1/2" on center.

Cores Available - Bullet Resistant Core Only. Level 1 / Polystyrene, Levels 2-8 / Polystyrene with armor plating.

Face Skins - 14 gage (cold rolled steel or A60 galvanized)

Closer Reinforcement (Option) - 14 gage standard / 12 gage optional. (18" x 6") Only available on Level 1.

Size Availability - (Singles) Maximum 5'0" x 10'0" - (Pairs) (*Levels 1-3 only) Maximum 10'0" x 10'0"
Note(Astragal required on all paired openings)*

SDI 100 Level/Model - Levels 4 Model 1 or 2 (Maximum Duty Performance Level A) (Standard)

Label Range - Bullet Resistant label per ballistic requirement as needed - Up to 180 minutes.

Edge Seam Construction - Visible seam standard (Option - continuously welded seamless and intermittently welded seamless.)

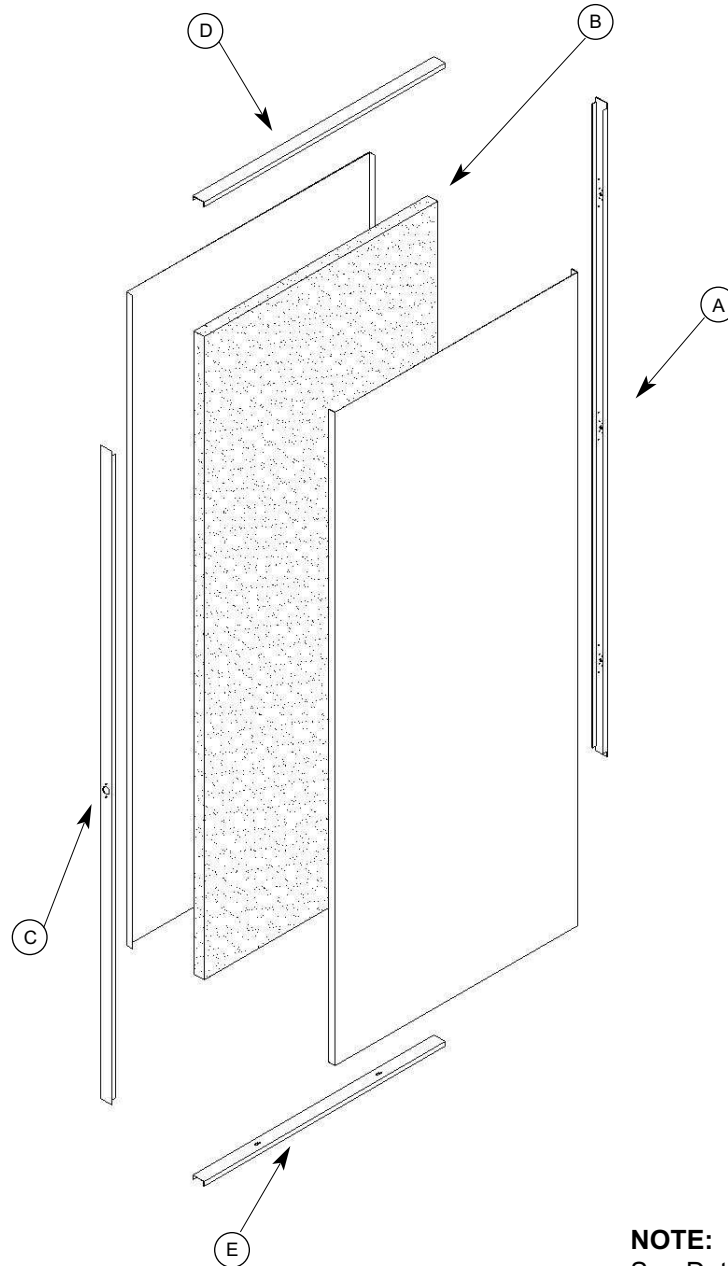
Universal Standard/Heavy Weight Hinge - Hinge fillers are used allowing for an easy modification from standard to heavy weight hinge prep. Levels 1, 2, 3 and 6 come standard with 4-1/2" hinges up to 3480 doors - Levels 4, 5, 7 and 8 are recommended to be prepped for continuous geared hinge.

Handing Design - Non-Handed standard (Handed optional)

Lite Kits and Louvers - Available (Contact Factory)

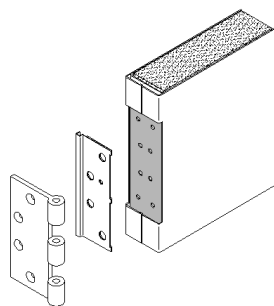
Revised 9/14

BULLET RESISTANT DOOR CONSTRUCTION LEVEL 1



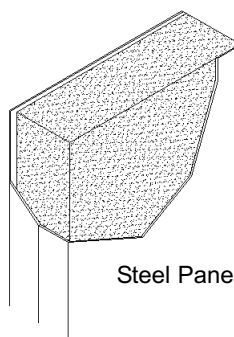
NOTE:
See Details on
back of page.

Revised 9/14

A

Shown: 4-1/12" or 5" full mortise template hinges on 1-3/4" doors

10 gage continuous hinge channel

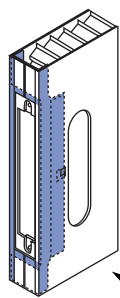
B

Steel Panel

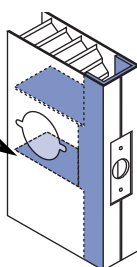
Polystyrene

C

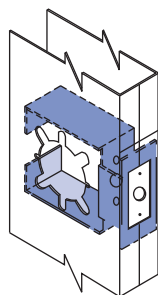
14 gage continuous lock channel



16 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")



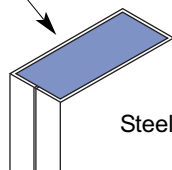
Lever Lock Prep - 161 DT (Modified 161 Prep) Conforms with the ANSI 115.18 161 lever lock specifications.

WARNING: Use rose trim with a minimum diameter of 3-5/16" to cover prep.

D

Top continuous 16 gage steel channel (standard flush)

DOOR TOP



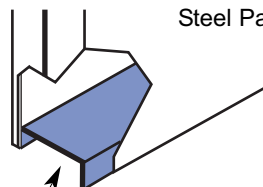
Steel Panel

When closer reinforcement requested 14 gage standard / 12 gage optional

E

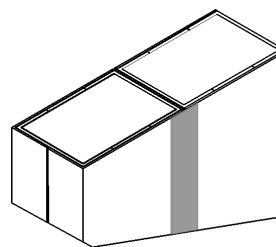
DOOR BOTTOM

Approximate depth 9/16"



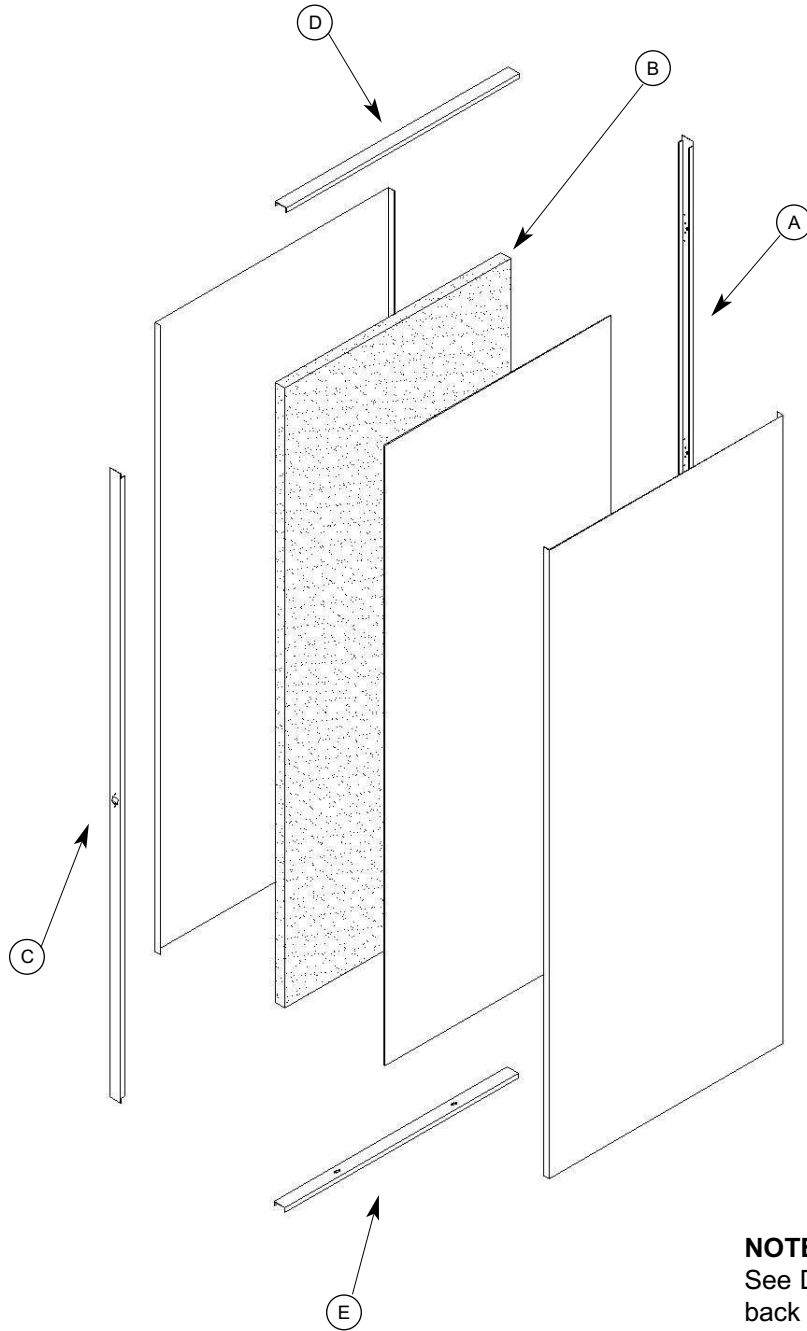
Steel Panel

Continuous 16 gage steel channel (standard inverted)



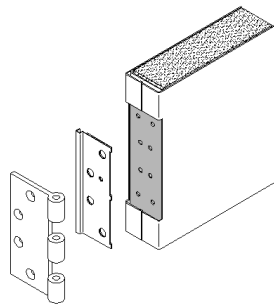
(2) Flat astragals for double doors

BULLET RESISTANT DOOR CONSTRUCTION LEVEL 2 & 3



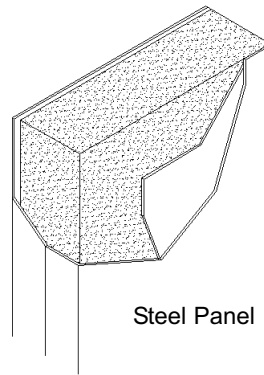
NOTE:
See Details on
back of page.

Revised 9/14

A

Shown: 4-1/12" x 4-1/2" full mortise template hinges on 1-3/4" doors.

10 gage continuous hinge channel

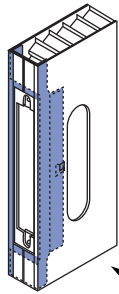
B

Steel Panel

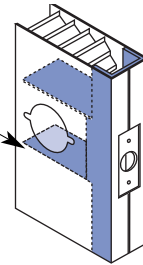
Polystyrene with Armor Plate

C

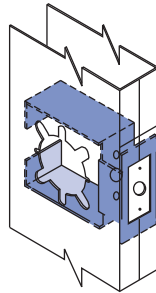
14 gage continuous lock channel



16 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")



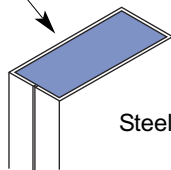
Lever Lock Prep - 161 DT (Modified 161 Prep) Conforms with the ANSI 115.18 161 lever lock specifications.

WARNING: Use rose trim with a minimum diameter of 3-5/16" to cover prep.

D

Top continuous 16 gage steel channel (standard flush)

DOOR TOP



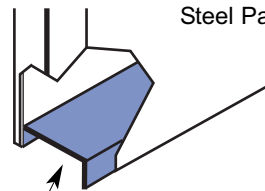
Steel Panel

Closer reinforcement not available or necessary

E

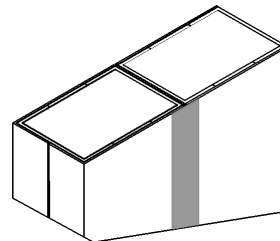
DOOR BOTTOM

Approximate depth 9/16"



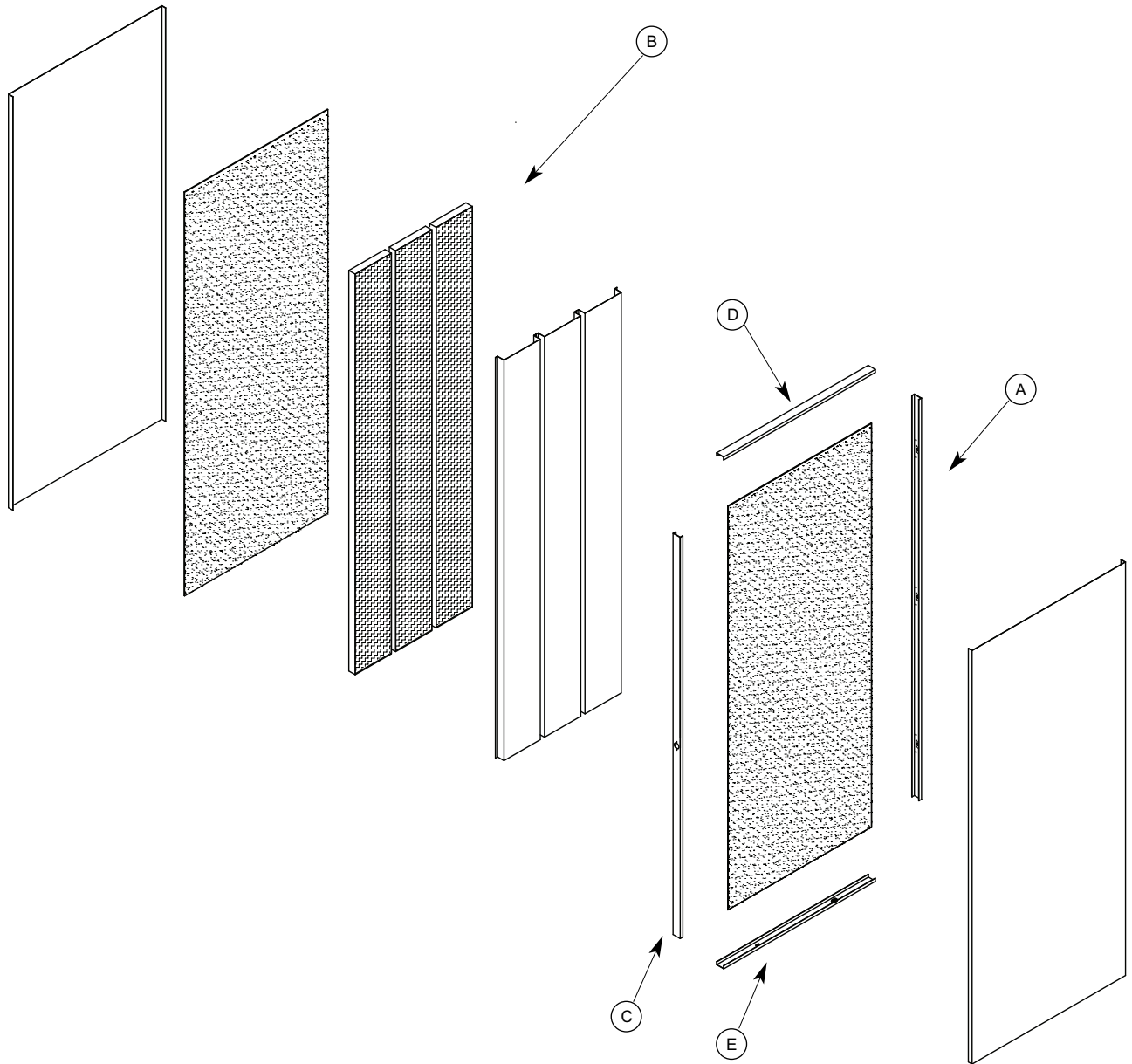
Steel Panel

Continuous 16 gage steel channel (standard inverted)

F

(2) Flat astragals for double doors

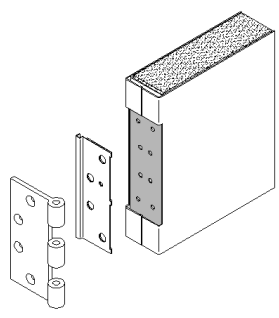
**BULLET RESISTANT DOOR CONSTRUCTION
LEVEL 4 THRU 8**



Revised 9/14

NOTE:
See Details on
back of page.

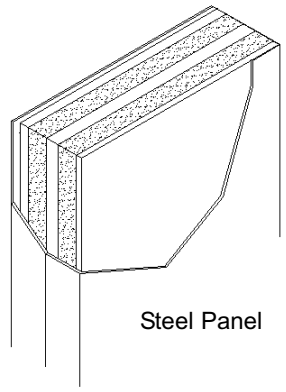
A



Shown: 4-1/2" or 5" full mortise template hinges on 1-3/4" doors.

10 gage continuous hinge channel

B

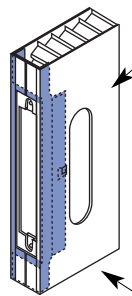


Steel Panel

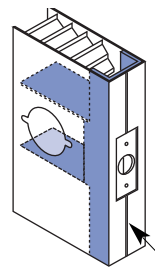
Republic proprietary Bullet Resistant Core

C

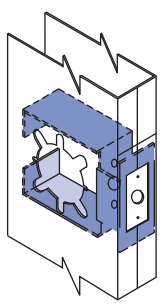
14 gage continuous lock channel



16 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")



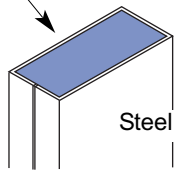
Lever Lock Prep - 161 DT (Modified 161 Prep) Conforms with the ANSI 115.18 161 lever lock specifications.

WARNING: Use rose trim with a minimum diameter of 3-5/16" to cover prep.

D

Top continuous 16 gage steel channel (standard flush)

DOOR TOP



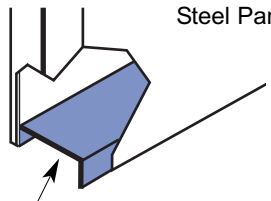
Steel Panel

Closer reinforcement not available or necessary

E

DOOR BOTTOM

Approximate depth 9/16"



Steel Panel

Continuous 16 gage steel channel (standard inverted)

Sound Transmission Control (STC) Doors shall be as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201.

Thickness - 1-3/4" (+/- 1/16")

Actual Door Size - Door undersized from nominal by 1/4" in width. Undercut is contingent on threshold.

Hinge Rail & Reinforcement - Hinge edge is non-beveled and reinforced with a continuous 16 gage steel channel projection welded at a maximum 5" on center. Additional 9 gage reinforcement plates at each hinge location, providing over 3/16" reinforcements. (Backset 1/4")

Lock Rail - Lock edge is non-beveled and reinforced with a continuous 16 gage steel channel projection welded at a maximum 5" on center. 16 gage reinforcements for mortised or cylindrical locks are of an integral type in accordance with ANSI A115 standards. (Beveled lock edge 1/8" in 2" optional.)

Top Channel - Top Channel is a flush 16 gage channel, projection welded at a maximum 2-1/2" on center.

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

Cores Available - Proprietary sound core only.

Face Skins - 16 gage (cold rolled steel, A60 galvanized or G90 Galvanized)

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

Size Availability - (Singles) Maximum 4'0" x 8'0"

SDI 100 Level/Model - Level 3 Model 2 (Maximum Duty Performance Level A) (Standard)

Label Range - Refer to Label Section.

Edge Seam Construction - Intermittently Welded seamless as standard. (Optional - continuous welded edge seam)

Universal Standard/Heavy Weight Hinge - Hinge fillers are used allowing for an easy modification from standard to heavy weight hinge prep - 5" hinges standard. **ALL SOUND TRANSMISSION CONTROL (STC) 48 COME STANDARD WITH 5-10 & EQUAL HINGE LOCATIONS.**

Handing Design - Non-Handed standard (Handed optional)

Lite Kits - Available (Contact Factory for size and ratings) Glass must be minimum 1" insulated with minimum 1/8" air space.

Revised 9/14

**SOUND TRANSMISSION CONTROL (STC)
50 & 52 DOORS**

Republic
DOORS AND FRAMES

**TECHNICAL DATA
SHEET No. 102h**

Sound Transmission Control (STC) Doors shall be as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201.

Thickness - 1-13/16" (+/- 1/16")

Actual Door Size - Door undersized from nominal by 1/4" in width. Undercut is contingent on threshold.

Hinge Rail & Reinforcement - Hinge edge is non-beveled and reinforced with a continuous 10 gage steel channel projection welded at a maximum 5" on center.

Lock Rail - Lock edge is non-beveled and reinforced with a continuous 14 gage steel channel projection welded at a maximum 5" on center. (Beveled lock edge 1/8" in 2" optional.)

Top Channel - Top Channel is a flush 16 gage channel, projection welded at a maximum 2-1/2" on center.

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

Cores Available - Proprietary sound core only.

Face Skins - 14 gage (cold rolled steel, A60 galvanized or G90 galvanized)

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

Size Availability - (Singles) Maximum 4'0" x 8'0" (Pairs) Maximum 8'0" x 8'0" - Maximum rating STC 47, construction and pricing for STC 50

SDI 100 Level/Model - Level 4 Model 2 (Maximum Duty Performance Level A) (Standard)

Label Range - Refer to Label Section.

Edge Seam Construction - Intermittently Welded seamless as standard. (Optional - continuous welded edge seam)

Universal Standard/Heavy Weight Hinge - Hinge fillers are used allowing for an easy modification from standard to heavy weight hinge prep - 5" hinges standard. **ALL SOUND TRANSMISSION CONTROL (STC) 50 & 52 COME STANDARD WITH 5-10 & EQUAL HINGE LOCATIONS.**

Handing Design - Non-Handed standard (Handed optional)

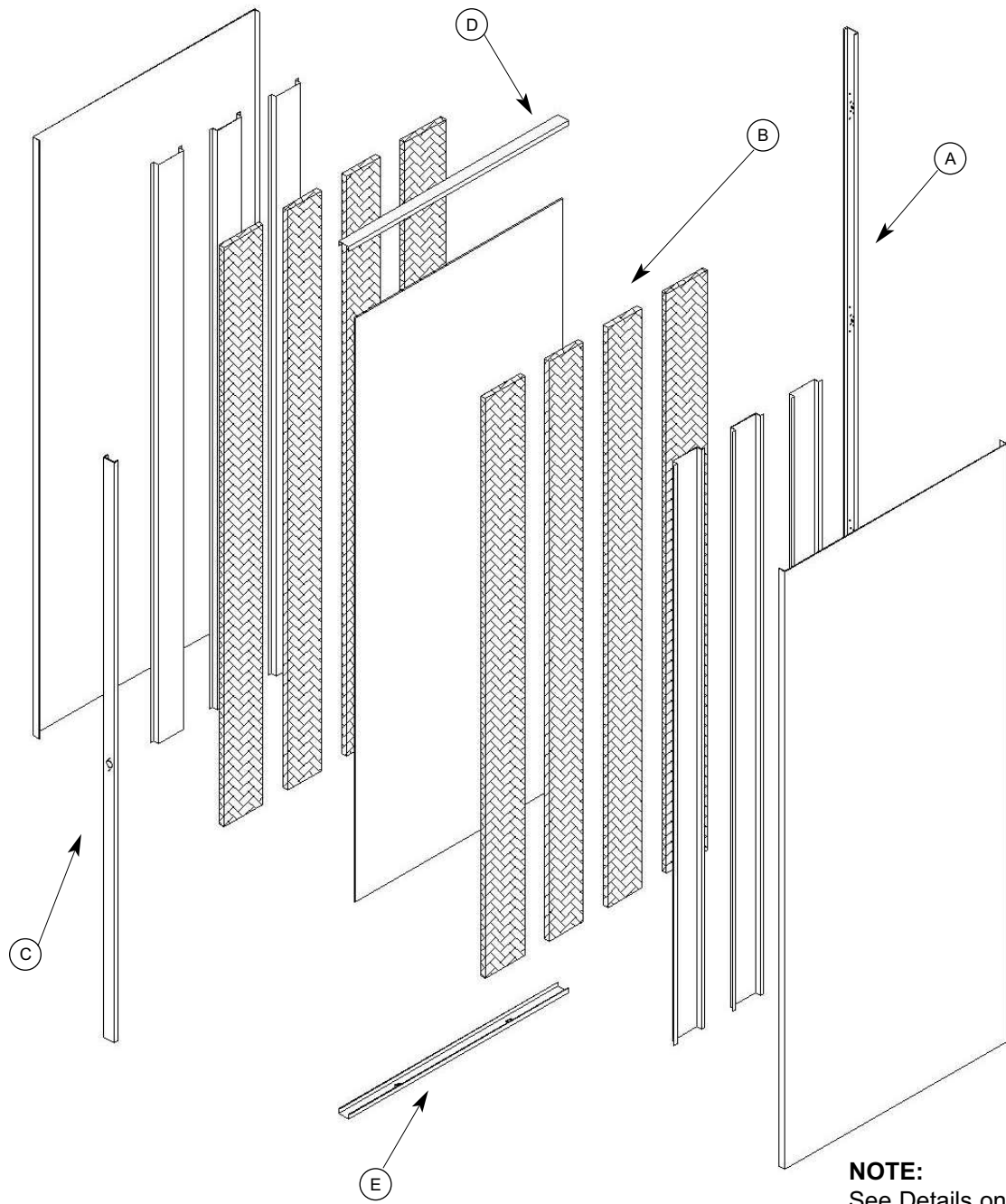
Lite Kits - Available (Contact Factory for size and ratings) Glass must be minimum 1" insulated with minimum 1/8" air space.

Revised 9/14

SOUND TRANSMISSION CONTROL (STC) CONSTRUCTION

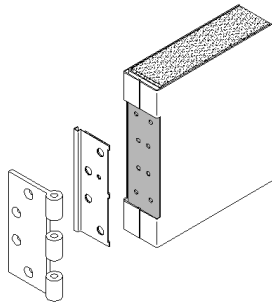
TECHNICAL DATA SHEET No. 102i

(STC 48 thru 52)



NOTE:
See Details on
back of page.

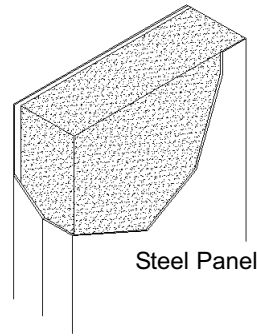
Revised 9/14

A

5" full mortise camlift template hinges

STC 48 - 16 gage
STC 50 & 52 - 10 gage

Continuous hinge channel

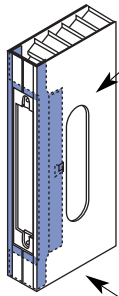
B

Steel Panel

Proprietary Sound Core by Republic

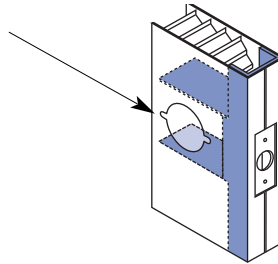
C

continuous lock channel

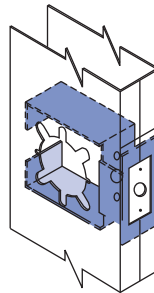


STC 48 - 16 gage
STC 50 & 52 - 10 gage

16 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")



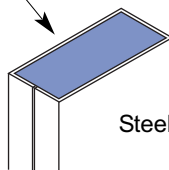
Lever Lock Prep - 161 DT (Modified 161 Prep) Conforms with the ANSI 115.18 161 lever lock specifications.

WARNING: Use rose trim with a minimum diameter of 3-5/16" to cover prep.

D

Top continuous 16 gage steel channel (standard flush)

DOOR TOP

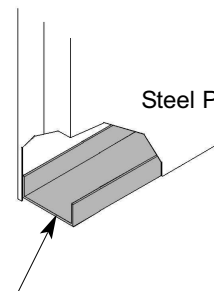


Steel Panel

closer reinforcement 14 gage standard / 12 gage optional

E

DOOR BOTTOM



Steel Panel

Flush bottom continuous 16 gage steel channel

**SOUND TRANSMISSION CONTROL (STC)
ECO 42, 43 AND 47 DOORS**

Republic
DOORS AND FRAMES

**TECHNICAL DATA
SHEET No. 102j**

Sound Transmission Control (STC) Doors shall be as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201.

Thickness - 1-3/4"

Actual Door Size - Door undersized from nominal by 1/4" in width. Undercut is contingent on threshold.

Hinge Rail & Reinforcement - Hinge edge is non-beveled and reinforced with a continuous 16 gage steel channel projection welded at a maximum 5" on center. Hinge channels have an additional 9 gage reinforcement at each hinge location, providing over 3/16" reinforcement. (Backset 1/4")

Lock Rail - Lock edge is non-beveled and reinforced with a continuous 16 gage steel channel projection welded at a maximum 5" on center. 16 gage reinforcements for mortised or cylindrical locks are of an integral type in accordance with ANSI A115 standards.

Top Channel - Top Channel is a flush 16 gage channel, projection welded at a maximum 2-1/2" on center.

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

Cores Available - Proprietary sound core only.

Face Skins - 16 gage (cold rolled steel, A60 galvanized or G90 galvanized)

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

Size Availability - (Singles) Maximum 4'0" x 8'0" (Pairs) 8'0" x 8'0" (Must have astragal) (STC rating affected on pairs)

SDI 100 Level/Model - Level 3 Model 1 or 2 (Maximum Duty Performance Level A) (Standard)

Label Range - Refer to Label Section

Edge Seam Construction - Visible edge seam - standard. (Optional - intermittently welded or continuously welded edge seam)

Universal Standard/Heavy Weight Hinge - Hinge fillers are used allowing for an easy modification from standard to heavy weight hinge prep - 4-1/2" hinges standard.

Handing Design - Non-Handed standard (Handed optional)

Lite Kits - Available (Contact Factory for size and ratings) Glass must be minimum 1" insulated with minimum 1/8" air space.

Revised 9/14

**SOUND TRANSMISSION CONTROL (STC)
ECO 40 6-PANEL EMBOSSED DOORS**

Sound Transmission Control (STC) Doors shall be as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201.

Thickness - 1-3/4"

Actual Door Size - Door undersized from nominal by 1/4" in width. Undercut is contingent on threshold.

Hinge Rail & Reinforcement - Hinge edge is non-beveled and reinforced with a continuous 16 gage steel channel projection welded at a maximum 5" on center. Hinge channels have an additional 9 gage reinforcement at each hinge location, providing over 3/16" reinforcement. (Backset 1/4")

Lock Rail - Lock edge is non-beveled and reinforced with a continuous 16 gage steel channel projection welded at a maximum 5" on center. 16 gage reinforcements for mortised or cylindrical locks are of an integral type in accordance with ANSI A115 standards.

Top Channel - Top Channel is a flush 16 gage channel, projection welded at a maximum 2-1/2" on center.

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

Cores Available - Proprietary sound core only.

Face Skins - 16 gage x A40 galvanized

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

Size Availability - (Singles) Maximum 3'6" x 8'0"

SDI 100 Level/Model - Level 3 Model 1 or 2 (Maximum Duty Performance Level A) (Standard)

Label Range - Refer to Label Section.

Edge Seam Construction - Visible edge seam - standard. (Optional - intermittently welded or continuously welded edge seam)

Universal Standard/Heavy Weight Hinge - Hinge fillers are used allowing for an easy modification from standard to heavy weight hinge prep - 4-1/2" hinges standard.

Handing Design - Non-Handed standard (Handed optional)

Lite Kits - Unavailable

Revised 9/14

LEAD LINED DOORS**TECHNICAL DATA
SHEET No. 102I**

Doors shall be as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201.

Lead Thickness - 1/16" standard (1/8" optional) For other thickness, consult factory.

Thickness - 1-3/4" (18 and 16 gage); 1-13/16" (14 gage \pm 1/16")

Actual Door Size - Door undersized from nominal by 1/4" in width and 7/8" in height. Standard undercut is 3/4".

Hinge Rail & Reinforcement - Hinge edge is non-beveled and reinforced with a continuous 16 or 10 gage steel channel projection welded at a maximum 5" on center.

Lock Rail - Lock edge is non-beveled and reinforced with a continuous 16 or 14 gage steel channel projection welded at a maximum 5" on center. (Option - Beveled lock edge 1/8" in 2")

Top Channel - Top Channel is a flush 16 gage steel channel, projection welded at a maximum 2-1/2" on center.

Bottom Channel - Bottom Channel is an inverted 16 gage steel channel, projection welded at a maximum 2-1/2" on center.

Cores Available - Insulated/Steel Stiffened core.

Face Skins - Cold Rolled Steel or Galvannealed, 18, 16 or 14 gage.

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

Size Availability - (Singles) Maximum 5'0" x 10'0", (Pairs) Maximum 10'0" x 10'0"

SDI 100 Level/Model - Level 2-4 Model 1 or 2 (Maximum Duty Performance Level A and B)

Label Range - Consult Label Section for fire ratings (Maximum 1-1/2 hour)

Edge Seam Construction - Visible seam - standard, (Option) Continuously welded seamless and intermittently welded seamless available.

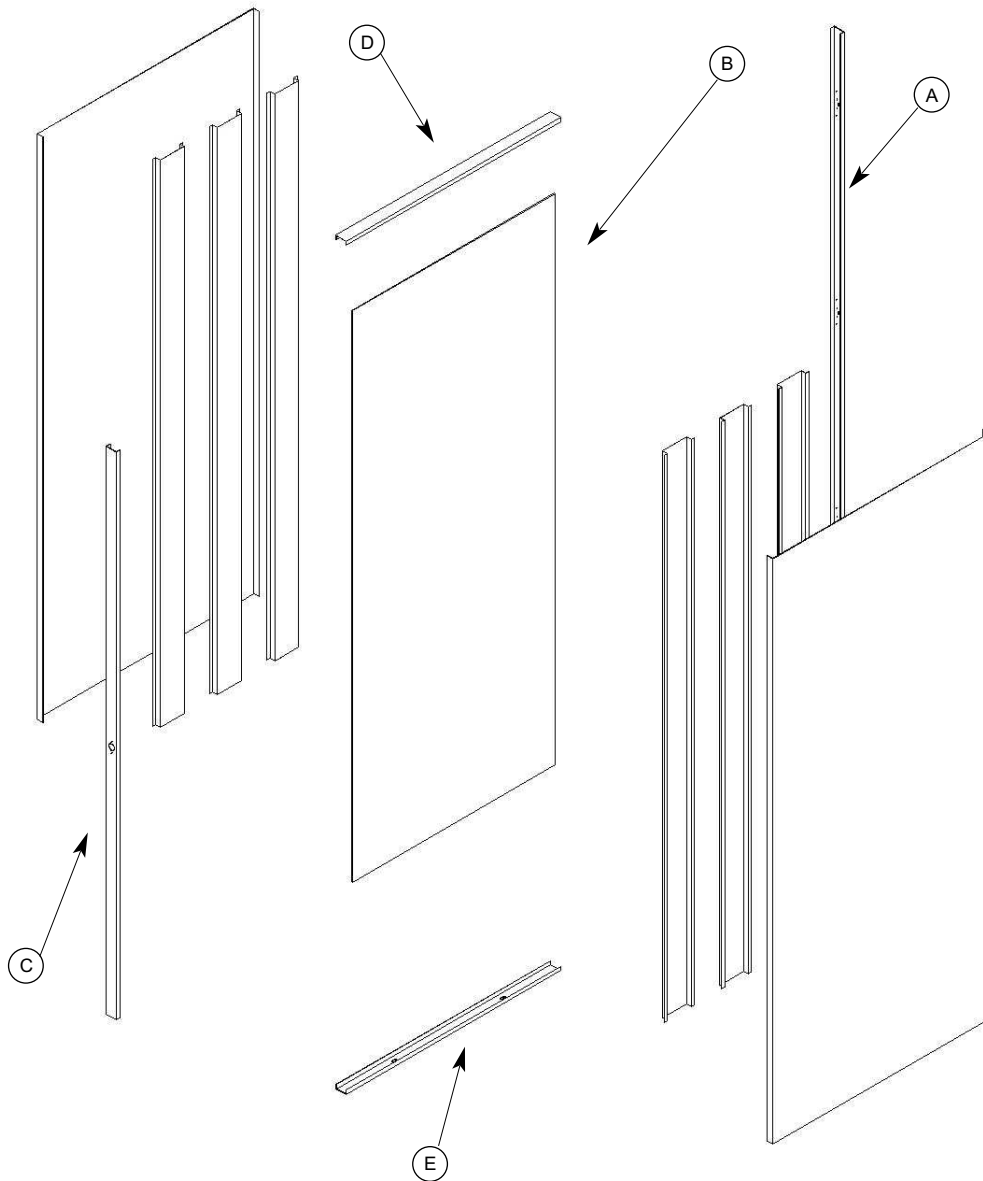
Universal Standard/Heavy Weight Hinge - Hinge fillers are used allowing for an easy modification from standard to heavy weight hinge prep.

Handing Design - Non-Handed standard (Handed optional)

Revised 9/14

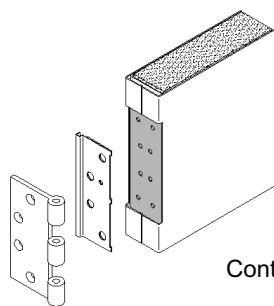
LEAD LINED DOOR CONSTRUCTION DETAILS

TECHNICAL DATA SHEET No. 102m



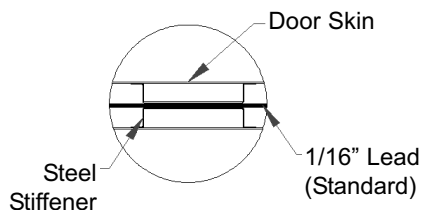
NOTE:
See Details on
back of page.

Revised 9/14

A

Continuous Hinge Channel

Shown: 4-1/12" x 4-1/2" full mortise template hinges on 1-3/4" doors.

B

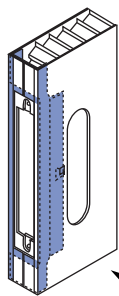
Door Skin

Steel Stiffener

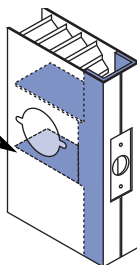
1/16" Lead (Standard)

C

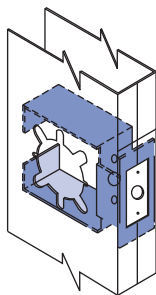
14 gage continuous lock channel



16 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")



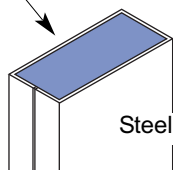
Lever Lock Prep - 161 DT (Modified 161 Prep) Conforms with the ANSI 115.18 161 lever lock specifications.

WARNING: Use rose trim with a minimum diameter of 3-5/16" to cover prep.

D

Continuous 16 gage steel channel (standard flush)

DOOR TOP



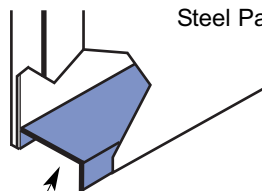
Steel Panel

When closer reinforcement requested 14 gage standard / 12 gage optional

E

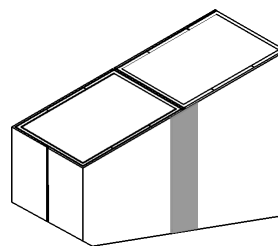
DOOR BOTTOM

Approximate depth 9/16"



Steel Panel

Continuous 16 gage steel channel (standard inverted)



(2) Flat astragals for double doors (option)

FEMA 320/361 TORNADO DOORS**TECHNICAL DATA
SHEET No. 102n**

DE Series Steel Stiffened Doors shall be as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201.

Thickness - 1-13/16" (+/- 1/16")

Actual Door Size - Door undersized from nominal by 1/4" in width and 7/8" in height. (Undercut depends on hardware.)

Hinge Rail & Reinforcement - Hinge edge is non-beveled and is reinforced with a continuous 10 gage steel channel projection welded at a maximum 5" on center.

Lock Rail - Lock edge is non-beveled and reinforced with a continuous 14 gage steel channel projection welded at a maximum 5" on center. (Beveled lock edge 1/8" in 2" optional)

Top Channel - Top Channel is a 14 gage channel, projection welded at a maximum 2-1/2" on center.

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

Cores Available - Insulated/Steel Stiffened core

Stiffener Gage & Size - 20 gage standard - 4" wide

Stiffener Spacing - Maximum 6" apart (Varies according to door width)

Stiffener Welding - 5" maximum on centers. (Vertically)

Face Skins - 14 gage (cold rolled steel or galvanized)

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

Size Availability - (Singles) Maximum 4'0" x 8'0", (Pairs) Maximum 8'0" x 8'0"

SDI 100 Level/Model - Level 4 Model 2 (Maximum Duty Performance Level A) (Standard)

Label Range - Consult Label Section for Fire Ratings.

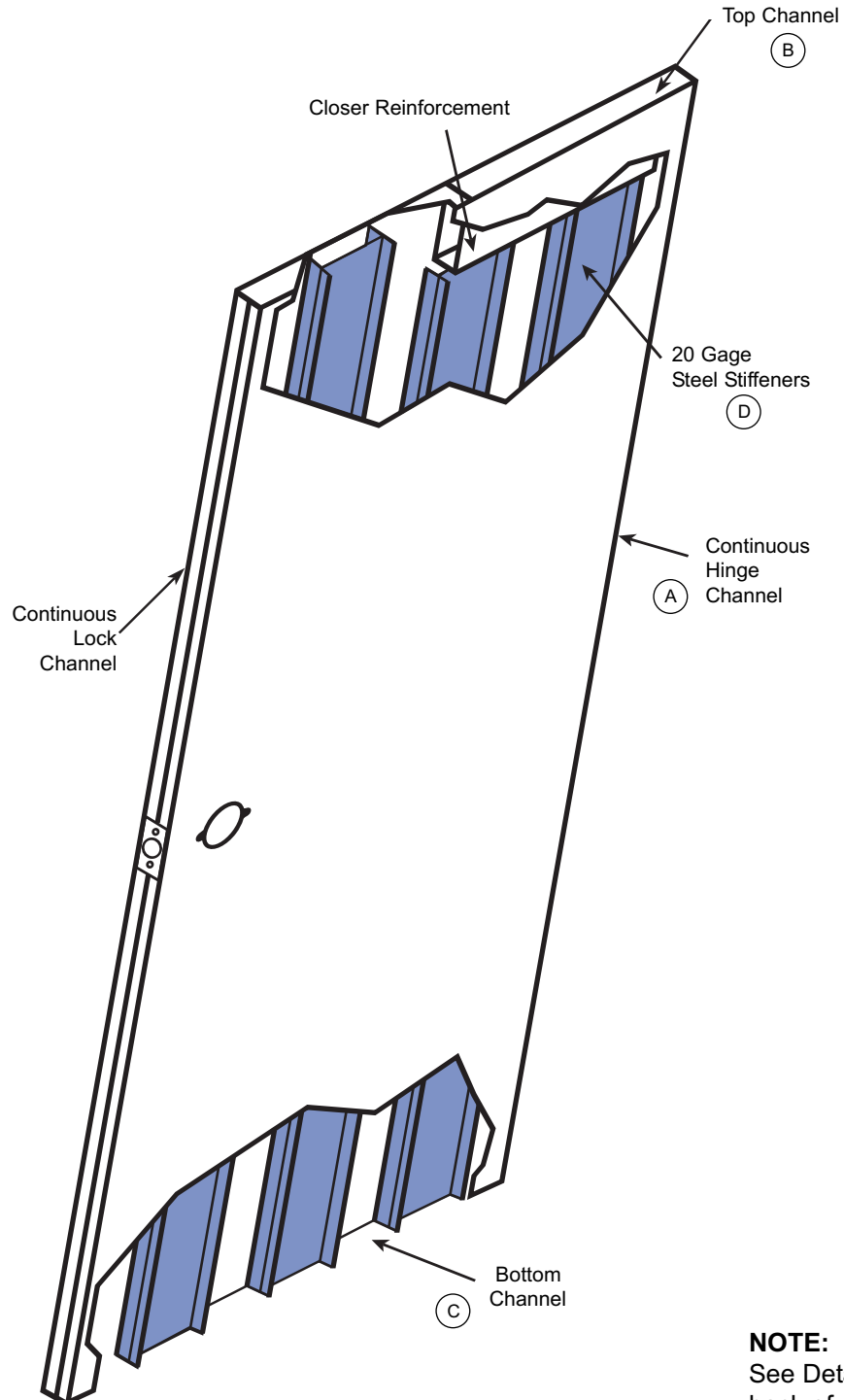
Edge Seam Construction - Seamless edge - Intermittently welded - standard. (Optional - continuously welded).

Universal Standard/Heavy Weight Hinge - Hinge fillers are used, allowing for an easy modification from standard weight to heavy weight hinge prep.

Handing Design - Non-Handed standard (optional handed) Frames are handed.

Revised 9/14

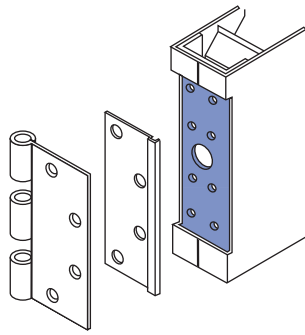
FEMA 320/361 TORNADO DOOR CONSTRUCTION DETAILS



NOTE:
See Details on
back of page.

Revised 9/14

A



Continuous 10 gage steel
channel reinforcement
Shown: 4-1/12" or 5" full
mortise template hinges

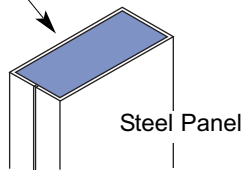
Approved Hardware Applications

Medeco Maxum Deadbolts (x3) with Grade 1 Cylindrical or Mortise Lockset*	
Corbin Russwin FE6800*	Concealed Rods
Sargent FM7100*	Concealed Rods
Sargent FM8700	Surface Rods
Von Durprin WS9927	Surface Rods
Securitech 4340*	Residential Multiple Deadbolt Lock
Securitech 5000*	Multiple Bolt Lockset
Securitech 7000	Concealed Rods
Securitech 8000	Concealed Rods

*May be in-swing or out-swing application

B

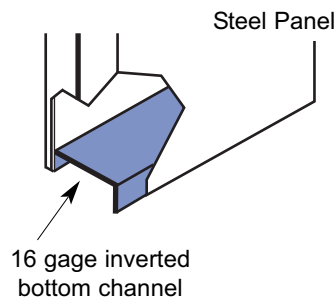
14 gage top channel DOOR TOP



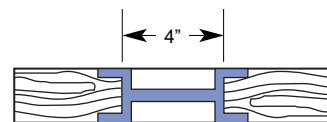
When closer reinforcement
requested 14 gage standard /
12 gage optional

C

DOOR BOTTOM



D



20 gage (standard)
Vertical Stiffener
(4" wide)