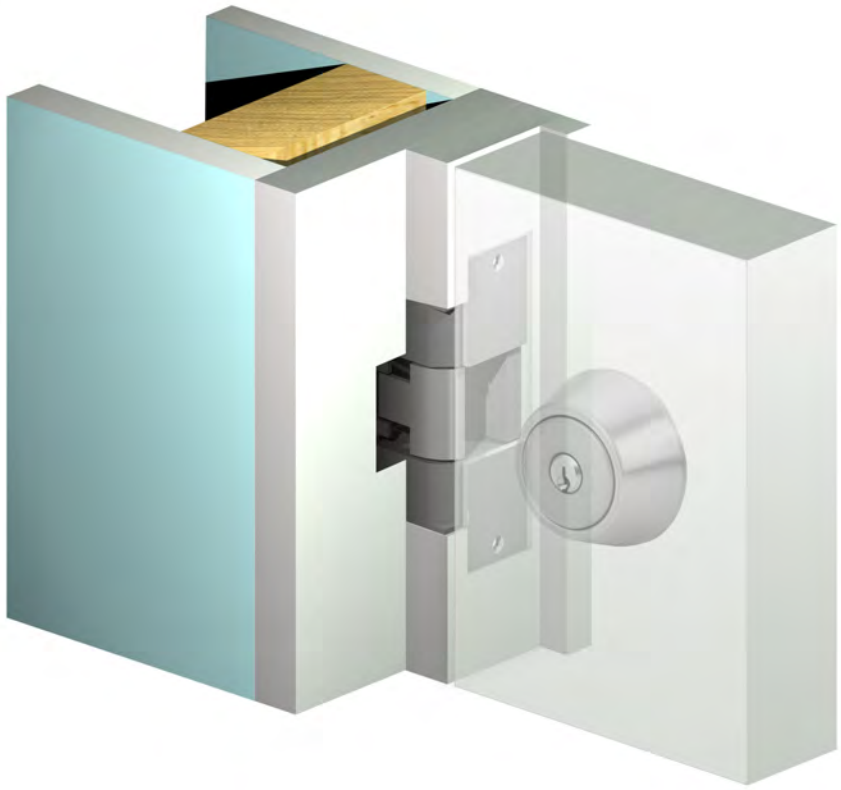
Residential Elevators Electric Lock (REEL)

Example Shown

- 36” 1-3/4” Solid Core Door
- 2” x 4” Frame Partition
- 1/2” Sheetrock



Check List

- □ **Rough Framing - Build plumb, square, and in-line rough door openings to specifications provided**
- □ **Door Jamb Fabrication - Build custom step door jamb to comply with ASME A17.1 - 2016 & Residential Elevators Electric Lock (REEL)**
- □ **Door Panel Preparation - Bore holes for (REEL) lock-set assembly & flush door pull**
- □ **Door Jamb Preparation - Mortise Door Jamb for Residential Elevators Electric Lock (REEL)**
- □ **Door Jamb & Panel - Hardware installation**

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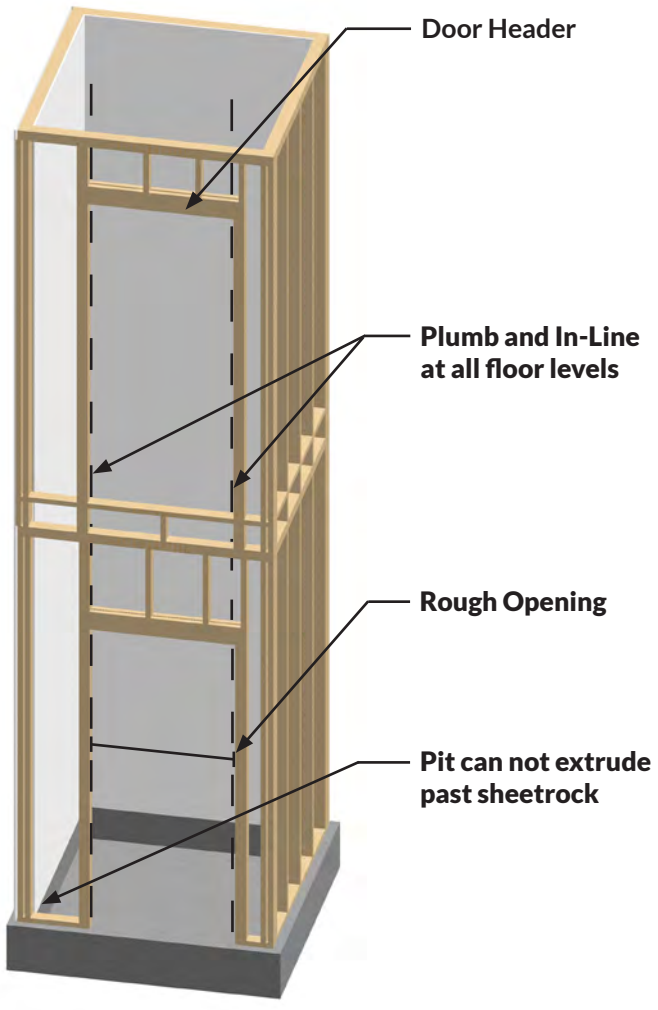
STEP 1: Rough Framing

- ☐ **Construct door rough opening + 4-1/2" larger than the finished door size. Example: A minimum of 40-1/2" is the rough opening required to accommodate a 36" door.**
- ☐ **Ensure that all elevator framed rough openings are square, level, plumb and in-line with each other, at all landings. Consult with REI representative for correct door return offsets.**



Rough Opening Chart

Door Size	Rough Opening
36"	40-1/2"
34"	38-1/2"
32"	36-1/2"
30"	34-1/2"

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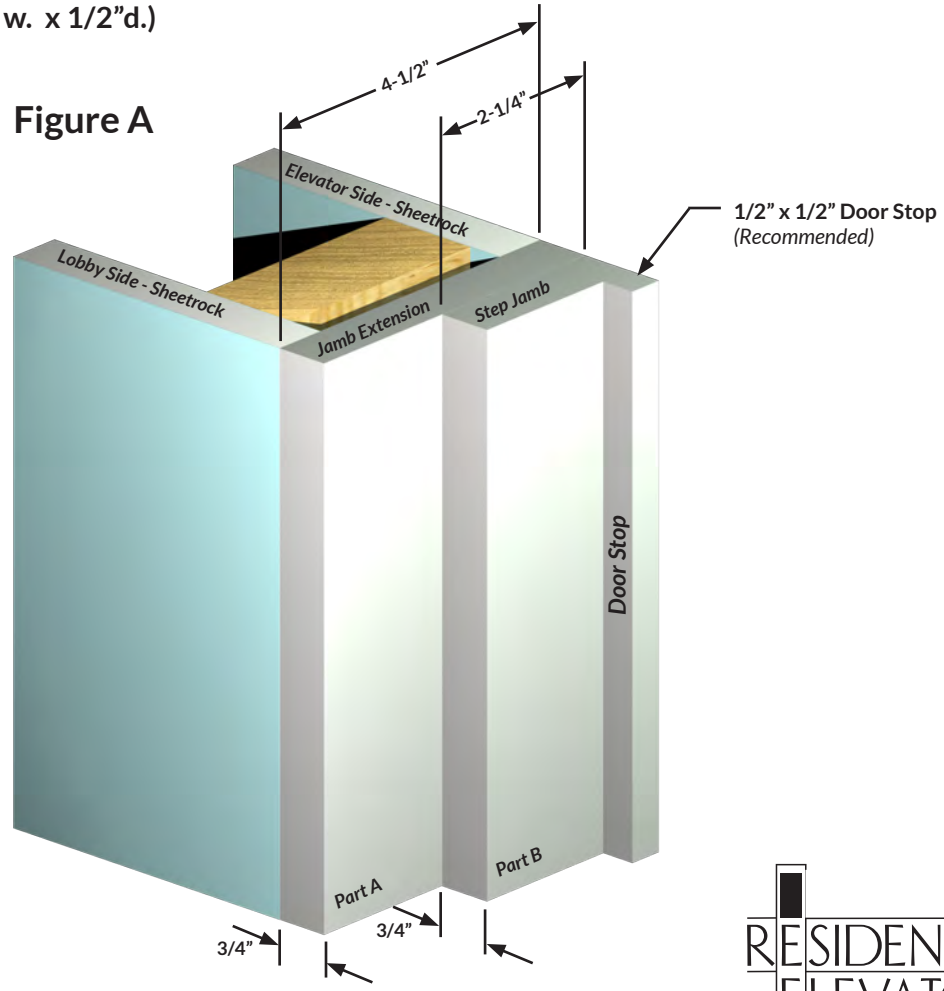
STEP 2: Door Jamb Fabrication

- □ **Fabricate custom door jamb to comply with ASME A17.1 2016 & Residential Elevators Electric Lock (REEL)**
- □ **Jamb Extension (Part A) should be built to the width of the finished door partition, flush with sheetrock. Jamb depth should be a minimum 1/2”.** Example shown: (4-1/2” w. x 3/4” d.)
- □ **Step Jamb (Part B) should be built with a width of 2-1/4” x 3/4” in depth. Step jamb should sit flush with Jamb Extension (Part A) at the elevator side of the finished sheetrock .** Example shown: (2-1/4” w. x 3/4”d.)
- □ **Door Stop should be built to recommended width of 1/2” x 1/2” depth or less. Door stop should sit flush with Floating Jamb (Part B) & elevator side of finished sheetrock.** Example shown: (1/2” w. x 1/2”d.)

Figure A



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STEP 3: Door Panel Preperation

- ☐ **Bore door for REEL Lockset Assembly & 1/2 Flush door pull into door panel (Fig. B)**

Door Panel
1-3/4" Solid Core Door (Preferred)
1-3/8" Solid Core Door (Acceptable)

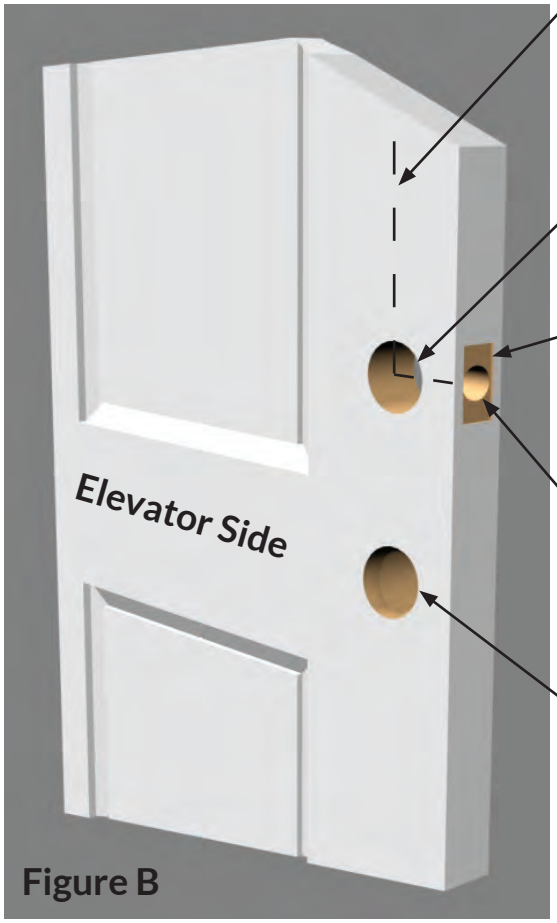
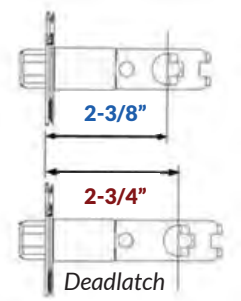


Figure B

REEL Lockset Backset:
(industry standard)
- ☐ **2-3/8"**
  or
- ☐ **2-3/4**



REEL Lockset Assembly - Hole prep:
(work done by others)
2-1/8" Diameter Bore - Recommended location is similar to a deadbolt lockset position

REEL Lockset Deadlatch plate prep:
(work done by others)
Mortised Square Corner
- ☐ **For 2-3/8" Backset: Latch Plate Dimensions (1" x 2-1/4" x 1/8")**
- ☐ **For 2-3/4" Backset: Latch Plate Dimensions (1-1/8" x 2-1/4" x 1/8")**

Cross Bore:
1" Diameter Hole
(work done by others)

Flush Door Pull - Hole Prep:
(work done by others)
Recommended location is similar to a passage set door hardware position
- ☐ **1/2 Bore to accommodate flush pull on elevator side**
- ☐ **No Bore to accommodate dummy door hardware on lobby side**

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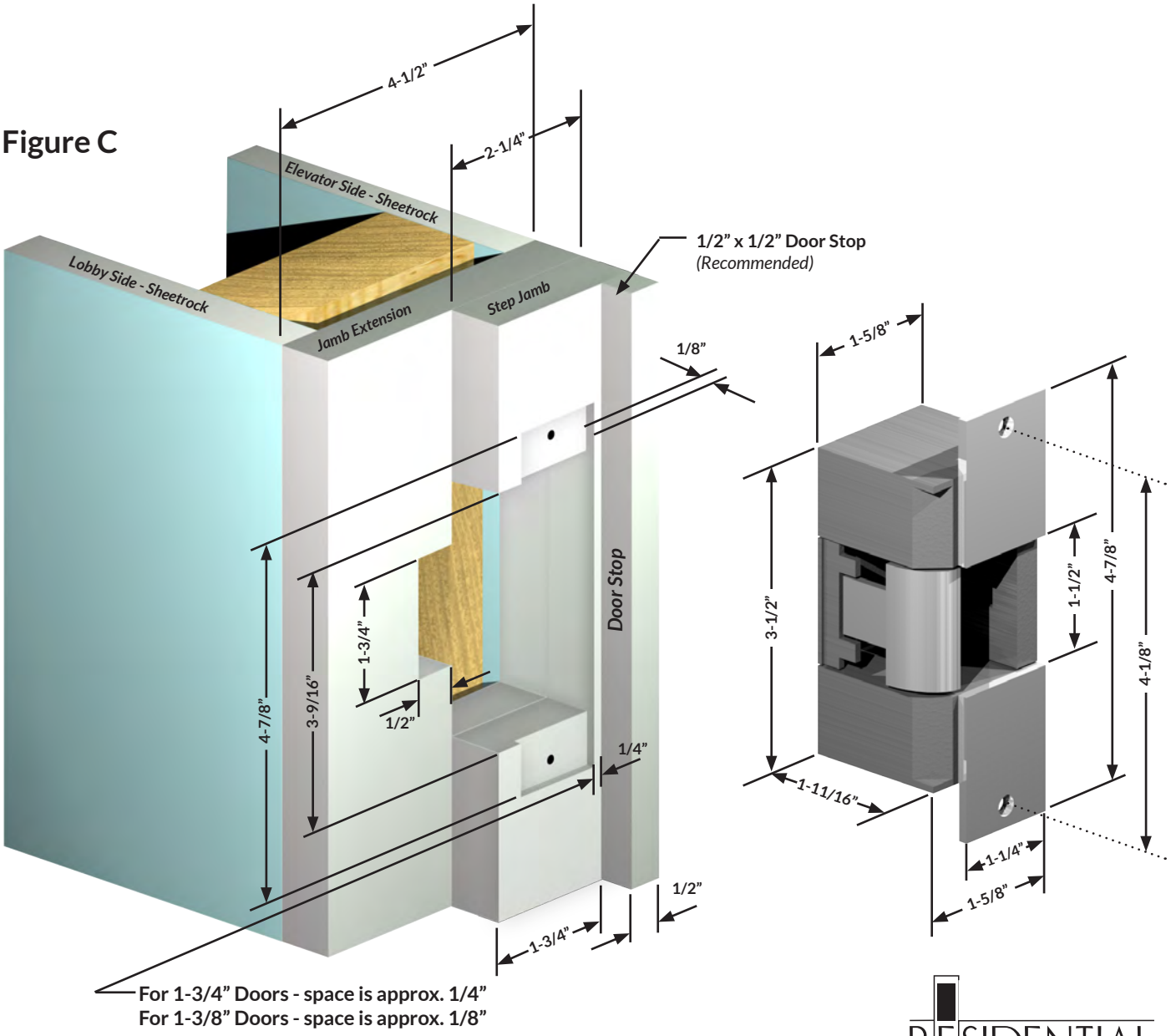
STEP 4: Door Jamb - Electric Stike Mortise

☐ **Mortise for REEL electric strike (Fig C.) should be made at centerline of REEL Lockset assembly (Fig. B)**

Figure C



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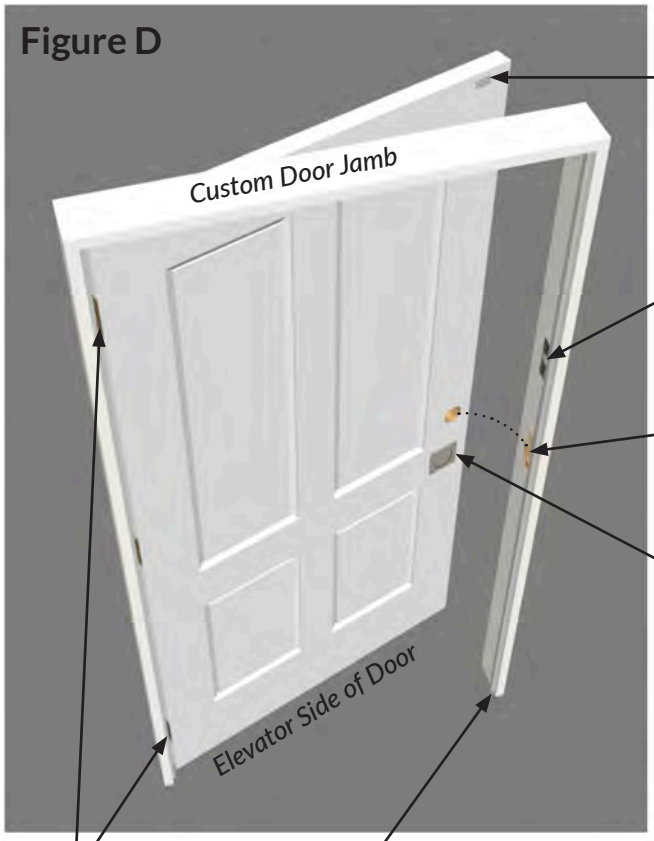
STEP 5: Door Jamb & Panel Hardware

- □ **It is recommended to install preloaded hinges to help keep door panel seated against the doorstop at all times. It is imperative that the door closes flush into the doorstop without binding.**
- □ **20-25lb Magnetic Door Catch is also recommended to be placed at the top of the door frame to ensure that door does not float off from the doorstop.**



Door Catch - Option 1
(work done by others)
- □ 20-25lb Magnetic Door Catch

Door Catch - Option 2
(work done by others)
- □ Roller Catch
- □ Ball Catch

REEL Electric Strike (Fig. C)
(work done by others)
Mortise Location Must Align with (Fig. B)

Flush Door Pull:
(work done by others)

Pre-Loaded Hinges
(Option)

Door Stop
(work done by others)

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