

Stanley Access Technologies
Quick-Reference Guide



7400-Series ICU Door System

Installation Instructions

Quick-Reference Guide

204068

Rev. C, 3/25/16

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1. PURPOSE

1.1 **Discussion**

This manual provides installation instructions for the Stanley 7400-Series ICU door system. The 7400-Series ICU door is a fully manual door system that features either two swinging panels or one swing door (single). The most common application for the door system is a hospital intensive care unit.

1.2 **Applicability**

This manual is applicable to the Stanley 7400-Series ICU door system.

1.3 **Features and Functions**

The 7400-Series ICU door system includes the following features:

- For active panels, a swing-door closer assembly embedded in the panel and header. (Inactive panels use a flush bolt and do not have a closer.) The closer assembly includes two setscrews. One screw adjusts the door closing speed as it closes from 105° to 15°. The other screw adjusts the latch closing speed throughout the last 15°.
- A 105° hold-open feature. When the swing door is opened to greater than 105° the door closer holds it open.
- Flush bolt on the inactive panel
- Lever handle and push handle on the active panels
- Smoke and draft option
- Continuous hinges

2. PREREQUISITES

2.1 Protective barrier (caution/warning tape) has been set up to prevent unauthorized access to work area.

2.2 Attachment 1 has been reviewed for the following:

- Definitions of the terms used in this procedure
- A listing of the additional documents required during this procedure
- A listing of the tools, equipment, materials, and consumables used in this procedure.

3. INSTALLATION INSTRUCTIONS

3.1 **Checking the Rough Opening**

3.1.1 ENSURE floor is level across the entire opening.

NOTE

The door shall be installed within the rough opening such that an average clearance between the door and rough opening is $\frac{1}{4}$ " along the pivot and top edge; $\frac{1}{8}$ " along the lead edge for a single panel; $\frac{1}{4}$ " along the bottom; and $\frac{1}{16}$ " along the meeting edge for a pair.

3.1.2 CHECK opening width.

3.1.3 CHECK opening height from *finished* floor.

3.1.4 SWEEP floor.

3.2 **Attaching the Jambs to the Header (1 $\frac{3}{4}$ " Header Option)**

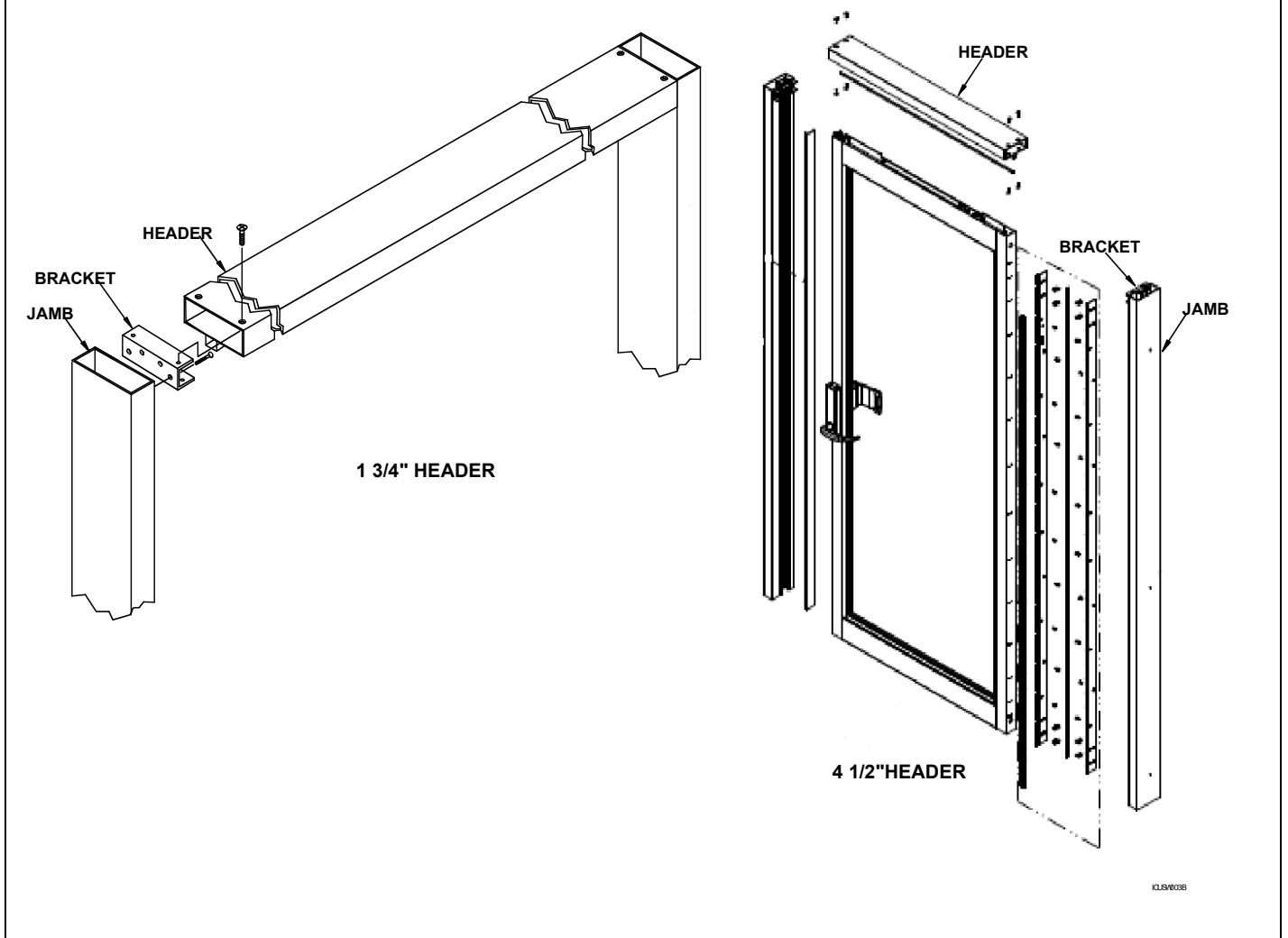
3.2.1 Refer to Figure 1, and, using one $\frac{1}{4}$ -20 X $\frac{1}{2}$ " screw and one $\frac{1}{4}$ -20 X $1\frac{1}{4}$ " screw with spring lockwashers, ATTACH header bracket to rivnuts in jamb.

3.2.2 POSITION end of header extrusion over the header bracket.

3.2.3 Using four $\frac{1}{4}$ -20 X $\frac{3}{4}$ " CS screws, ATTACH header to header bracket.

3.2.4 REPEAT Section 3.2 for opposite end of header.

Figure 1. Attaching the Jambs to the Header

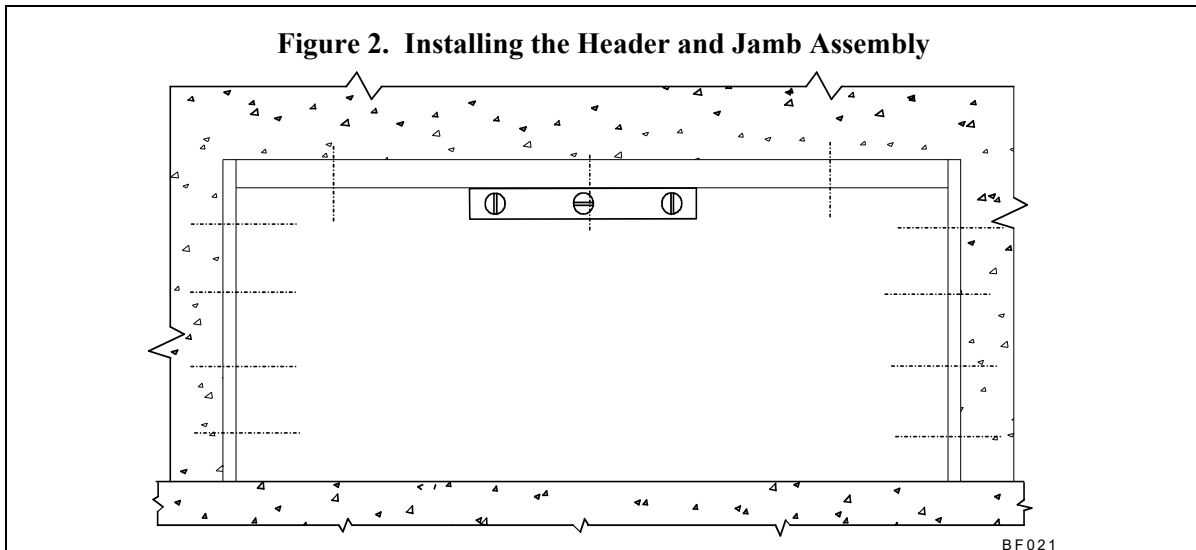


3.3 Attaching the Jambs to the Header (4 1/2" Header Option)

- 3.3.1 Refer to Figure 1, and, using three 1/4 -20 X 1 3/4" screws and spring lockwashers, ATTACH header bracket to rivnuts in jamb.
- 3.3.2 POSITION end of header extrusion over the header bracket.
- 3.3.3 Using four 1/4 -20 X 3/4" CS screws, ATTACH header to header bracket.
- 3.3.4 REPEAT Section 3.3 for opposite end of header.

3.4 Installing the Header and Jamb Assembly

- 3.4.1 LIFT header and jamb assembly and POSITION into opening.
- 3.4.2 Temporarily SECURE frame in place as necessary to prevent header and jamb assembly from falling.
- 3.4.3 SHIM beneath jamb(s) as necessary to level header and maintain required height from highest point of finished floor.
- 3.4.4 INSPECT one jamb for plumb in vertical and horizontal planes. IF required, SHIM back of jamb.
- 3.4.5 Refer to Figure 2, and, using the previously drilled jamb holes as a guide, DRILL holes in rough opening for the following fasteners as required:
 - IF rough opening is concrete, DRILL ¼" dia. hole for concrete screw, and ENSURE screw will be embedded 1½" minimum.
 - IF rough opening is steel, DRILL #14 SMS (Note 18 GA steel minimum).
 - IF rough opening is wood, DRILL for #14 wood screw, and ENSURE screw will be embedded 1½" minimum.



- 3.4.6 INSTALL, but do *not* tighten, fasteners securing one jamb to opening, and ENSURE jamb remains plumb.
- 3.4.7 INSPECT opposite jamb for plumb in vertical and horizontal planes. IF required, SHIM back of jamb.
- 3.4.8 Using the previously drilled jamb holes as a guide, DRILL holes in rough opening.
- 3.4.9 INSTALL, but do *not* tighten, fasteners securing jamb to opening, and ENSURE jamb remains plumb.
- 3.4.10 Starting at the top of jamb and moving downward, SHIM jambs as necessary to ensure jambs remain level and plumb, and TIGHTEN fasteners securing jambs to opening.
- 3.4.11 INSTALL and TIGHTEN fasteners securing header to opening, and ENSURE header remains level.

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3.5 **Installing the Door Panels**

- 3.5.1 Using No. 12 X 3/4" self-threading Tek screws, ATTACH continuous hinge to door jamb (supplied with continuous hinge).
- 3.5.2 Using No. 12 X 3/4" self-threading Tek screws, ATTACH continuous hinge to door panel.
- 3.5.3 Repeat steps 3.5.1 and 3.5.2 for additional door panel if applicable.

3.6 **Installing the Door Handle and Paddle Assembly**

- 3.6.1 Refer to manufacturer's instructions and Attachment 2, and INSTALL door handle and paddle assembly.

3.7 **Installing the Latch Post Assembly**

NOTE

The latch post hole in the header is pre-drilled at the factory.

- 3.7.1 Refer to manufacturer's instructions, and, with the Allen screw head facing downward, POSITION latch post into pre-drilled hole in header.
- 3.7.2 Using a 5/32" Allen wrench, SECURE the latch post into the header.

3.8 **Attaching the Door Closer Assembly**

NOTE

The door arm is factory installed onto the door panel. The door closer slide block assembly is factory installed in the header.

- 3.8.1 POSITION the door arm onto the door closer slide block.
- 3.8.2 Using a No. 5 Allen wrench, TIGHTEN *counterclockwise* the screw securing the door arm to the door closer slide block.
- 3.8.3 Refer to Attachment 3, and INSTALL door closer assembly.

3.9 **Installing the Optional Smoke Seals**

- 3.9.1 Refer to Attachment 3 (sheet 1), and INSTALL leading edge weatherstripping through top of channel on door panel leading edge.
- 3.9.2 INSTALL self-adhering foam tape along centerline of hinge attached to door jamb.
- 3.9.3 Refer to Attachment 3 (sheets 2 and 3), and INSTALL self-adhering foam tape along exterior side of door stop.

3.10 Performing the Closeout Procedure

- 3.10.1 CYCLE door several times and ENSURE the following:
- Door is aligned properly.
 - Door opens and closes freely.
 - Door latches properly.
 - Door leakage rates are within the limits shown in Tables 1 and 2.
- 3.10.2 If door latch adjustment is required, refer to Attachment 3, and ADJUST door latch.
- 3.10.3 If installed, ENSURE door sweep is properly adjusted.
- 3.10.4 If door closing speed or close check speed requires adjustment, refer to Manufacturer's instructions for No. CO-154 Door Closer Assembly, and ADJUST door closer as necessary.
- 3.10.5 ENSURE glass is not cracked or broken.
- 3.10.6 ENSURE glass and metal surfaces are clean.
- 3.10.7 ENSURE door installation area is clean and free of debris.
- 3.10.8 COMPLETE Work Order and REPORT your actions to Building Superintendent.

Table 1. Leakage Rates--Single Swing Doors

Pressure (in. of WC)	Air Temp, °F	Leakage (cfm/sq ft)	Closing Force, lb	Artificial Bottom Seal
0.05	Ambient	2.1	4	No
0.10	Ambient	2.6	4	No
0.20	Ambient	4.46	4	No
0.30	Ambient	5.63	4	No
0.05	400	0.55	4	No
0.10	400	0.89	4	No
0.20	400	1.21	4	No
0.30	400	1.79	4	No
Pressure (in. of WC)	Air Temp, °F	Leakage (cfm/sq ft)	Closing Force, lb	Bottom Seal
0.05	Ambient	0.57	4	Yes
0.10	Ambient	0.80	4	Yes
0.20	Ambient	1.27	4	Yes
0.30	Ambient	2.29	4	Yes
0.05	400	0.00	4	Yes
0.10	400	0.21	4	Yes
0.20	400	0.31	4	Yes
0.30	400	0.42	4	Yes

Table 2. Leakage Rates--Standard and Uneven Pair

Pressure (in. of WC)	Air Temp, °F	Leakage (cfm/sq ft)	Closing Force, lb	Artificial Bottom Seal
0.05	Ambient	1.2	4	No
0.10	Ambient	1.6	4	No
0.20	Ambient	2.65	4	No
0.30	Ambient	3.56	4	No
0.05	400	0.24	4	No
0.10	400	0.76	4	No
0.20	400	1.01	4	No
0.30	400	1.33	4	No
Pressure (in. of WC)	Air Temp, °F	Leakage (cfm/sq ft)	Closing Force, lb	Bottom Seal
0.05	Ambient	0.40	4	Yes
0.10	Ambient	0.76	4	Yes
0.20	Ambient	1.21	4	Yes
0.30	Ambient	2.02	4	Yes
0.05	400	0.05	4	Yes
0.10	400	0.30	4	Yes
0.20	400	0.39	4	Yes
0.30	400	0.50	4	Yes

3.1 Replacement Parts

3.1.1 Refer to Table 3 for replacement parts.

Table 3. Replacement Parts

Item No.	Part Number	Description
1	Closer Assembly	714436
2	Bolt - Flush, Clear Finish	515488
	Bolt - Flush, Drk Bronze Finish	535488
3	Seal - Overlap, tear shape (hinge extension), 4' length	414091
4	Seal, flat shape (door perimeter), 25' length	713941
5	Latch - Cover, header cover	712076
6	Weather-strip "T" shape, 8' length	415077-1
7	Paddle Assembly, 1 point latch (left hand reverse)	714434-1
	Paddle Assembly, 1 point latch (right hand reverse)	714434-2
8	Lever Handle – Curved, non handed	714435
9	Hinge - Continuous, Clear finish, 79" length	714437-1
	Hinge - Continuous, Drk Bronze finish, 79" length	714437-2
	Hinge - Continuous, Clear finish, 83" length	714437-3
	Hinge - Continuous, Drk Bronze finish, 83" length	714437-4
	Hinge - Continuous, Clear finish, 95" length	714437-5
	Hinge - Continuous, Drk Bronze finish, 95" length	714437-6
	Hinge - Continuous, Clear finish, 119" length	714437-7
	Hinge - Continuous, Drk Bronze finish, 119" length	714437-8
10	Brush, Bottom Sweep, short pile, 120" length	710739-12000
	Brush, Bottom Sweep, long pile, 132" length	713241-13200
11	Holder - Sweep, 180" length	413769-18000

Attachment 1

Documents, Definitions, Tools, Equipment, Materials, and Consumables

Documents

- Manufacturer's instructions for Door Closer Assembly
- Manufacturer's instructions for Door Handles

Definitions

- None

Tools and Equipment (including, but not limited to)

- Electric drill, metal drill bit set,
- concrete drill bit set
- $\frac{5}{32}$ " Allen wrench
- No. 5 Allen wrench
- Screwdriver kit

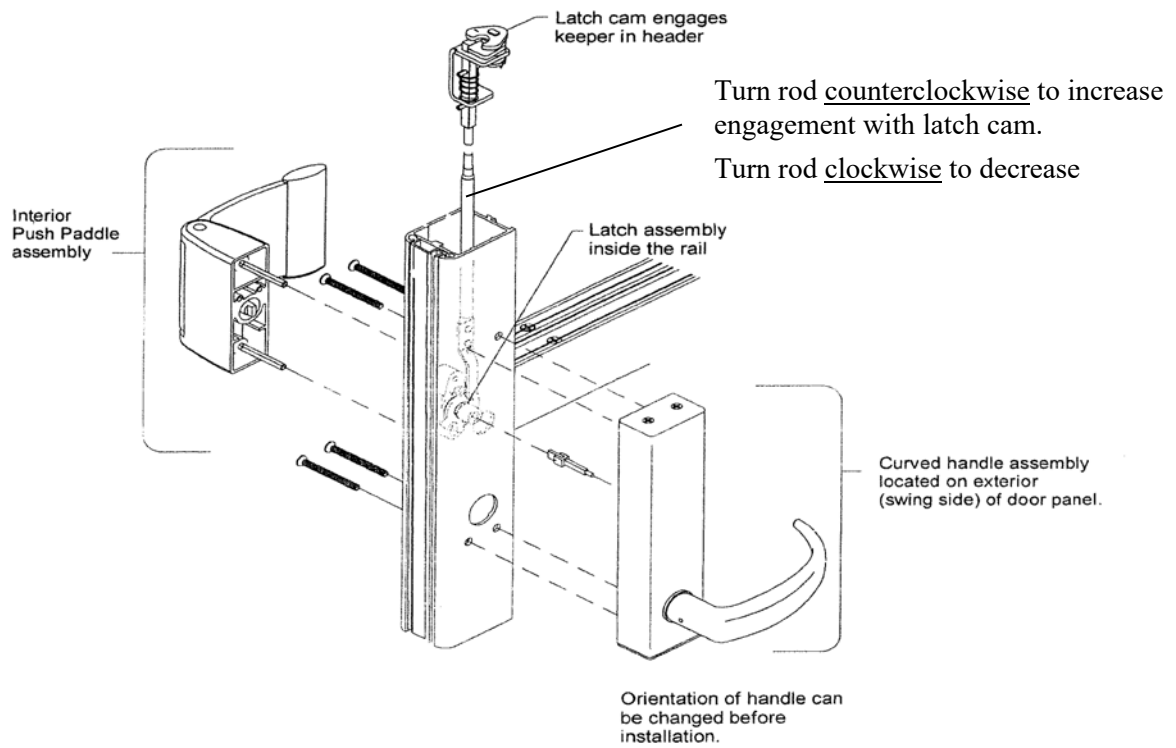
Materials (including, but not limited to)

- Glass panels

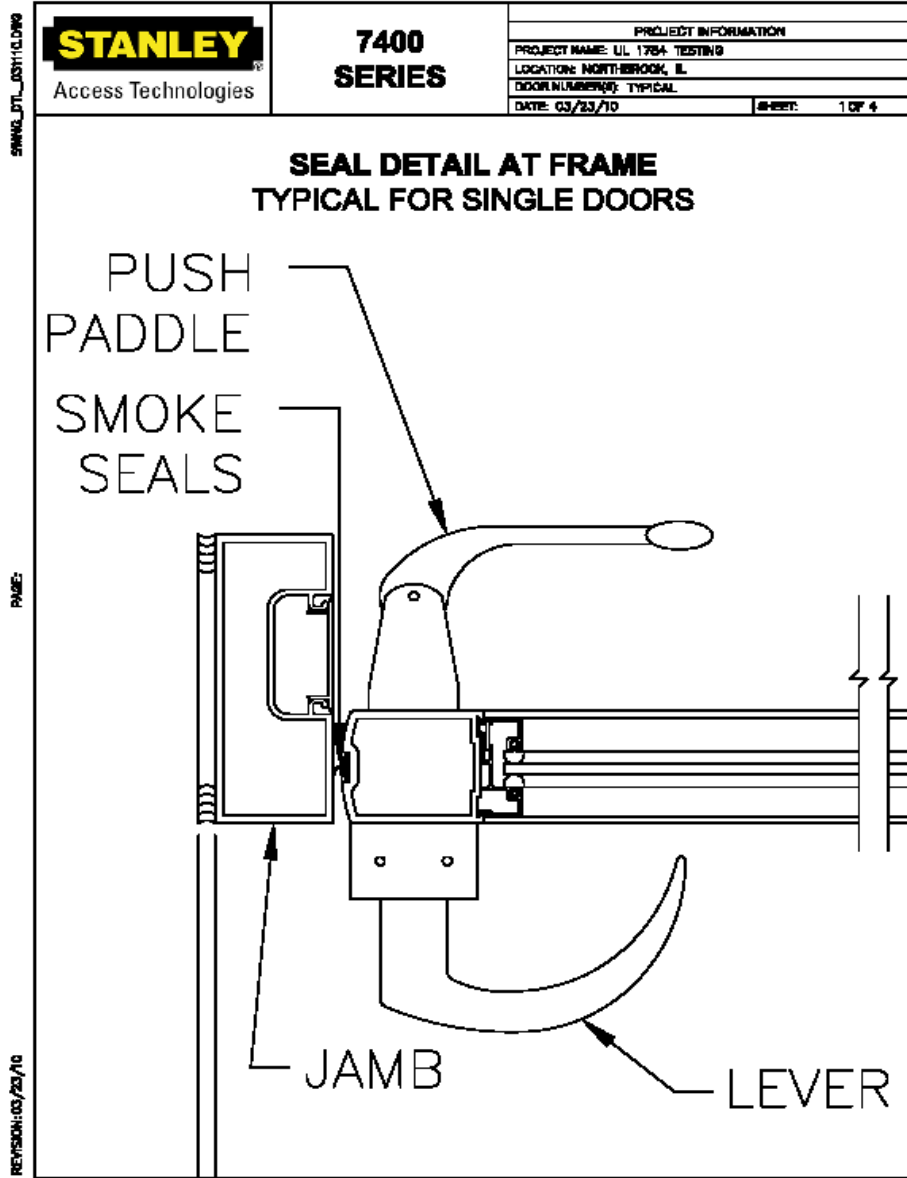
Consumables (including, but not limited to)

- Clean rags

Attachment 2 Latch Assembly Installation



Attachment 3
Header and Smoke Seal Options
 (Sheet 1 of 3)

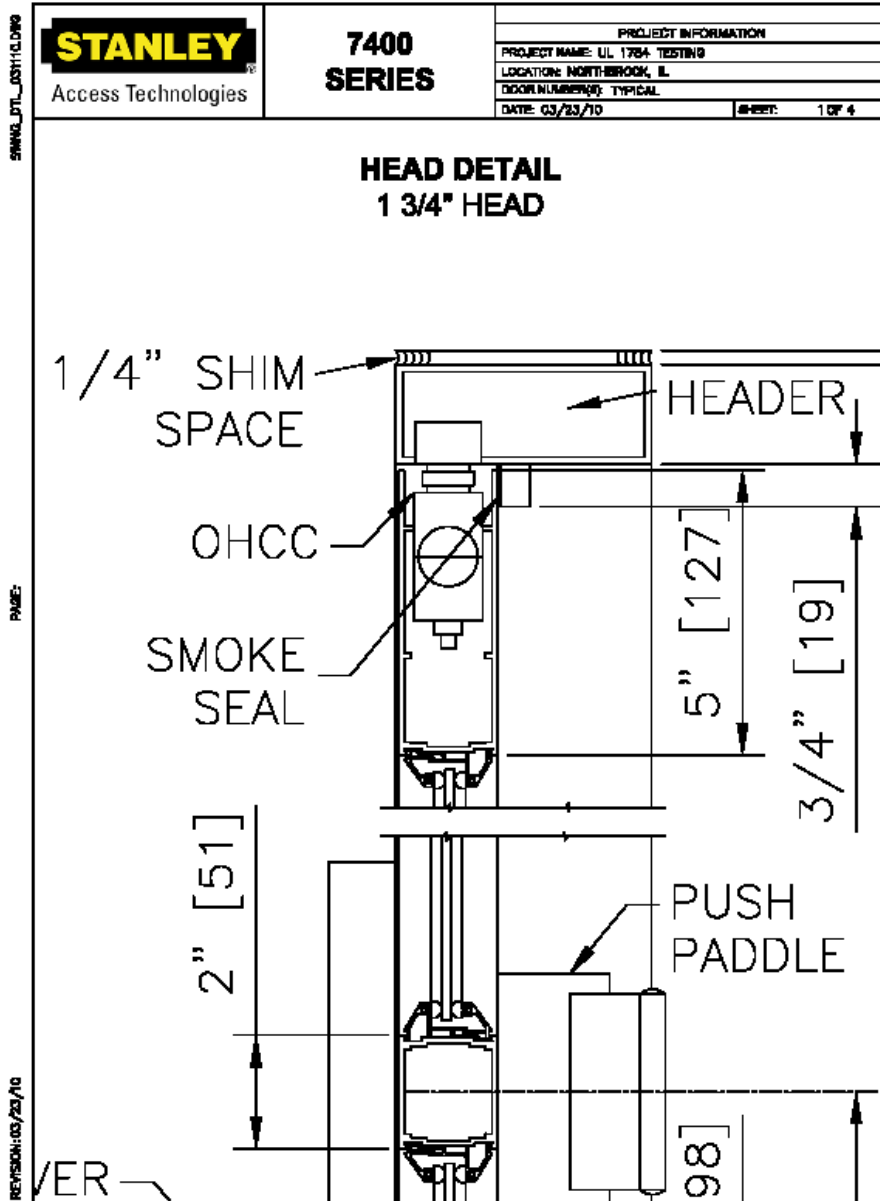


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Attachment 3
Header and Smoke Seal Options
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Attachment 3
Header and Smoke Seal Options
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