Dunbarton CORPORATION™
868 MURRAY ROAD DOTHAN, AL 36303

"REDIFLEX"
TWO-PIECE STEEL FRAME SYSTEM UTILIZING A JELD-WEN OPAQUE STEEL DOOR PANEL "IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

The Door System described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) subject to the following conditions:

1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. This system has been tested and evaluated as a large missile impact protective system for installation in the Seaward, Inland I and Inland II areas. This product meets missile level "D" as defined in ASTM E 1996.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.

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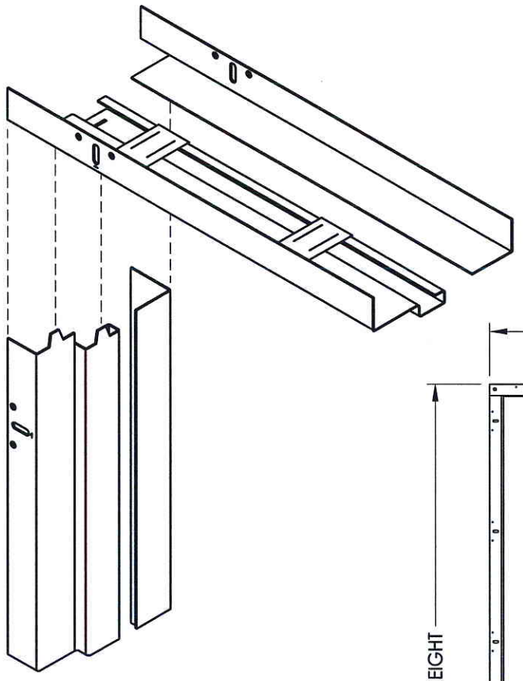
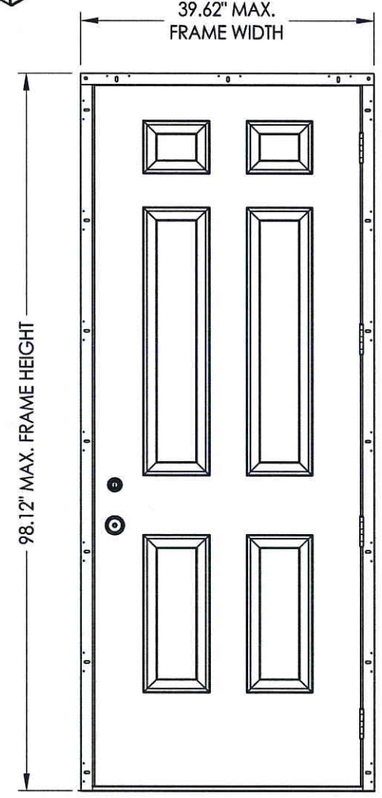
1	Typical elevation, design pressures & general notes
2	Steel frame cross sections & details
3	Door panel details
4	Horizontal cross sections
5	Vertical cross sections
6	Frame anchoring
7	Bill of materials and components



REDIFLEX TWO-PIECE



OUTSWING

OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
39.62" X 98.12"	+ 55.0	- 55.0

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME

PART OR ASSEMBLY: TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS	BY

DATE: 7/9/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4354
SHEET 1 OF 7

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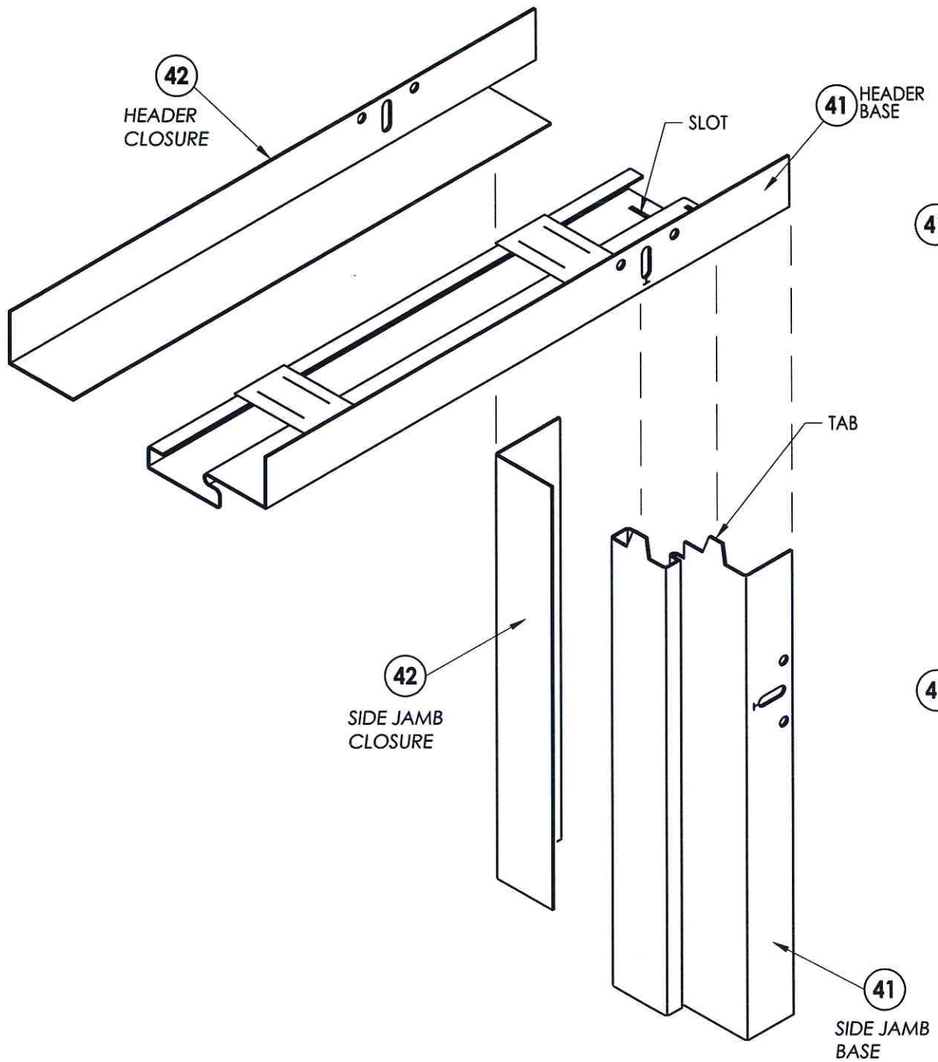
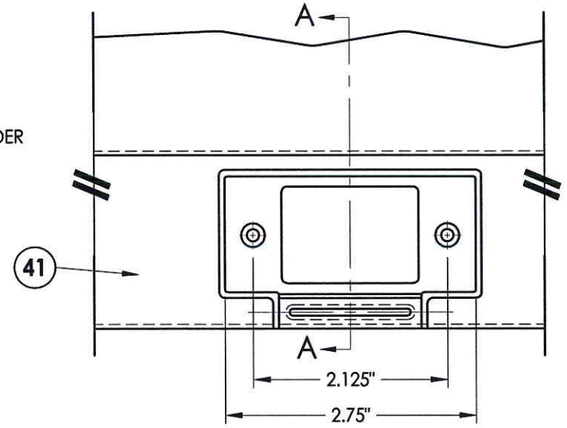
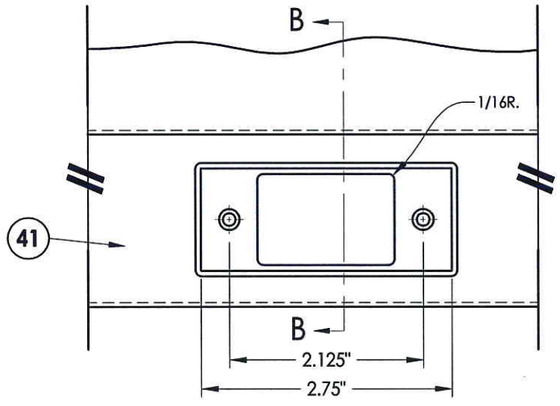
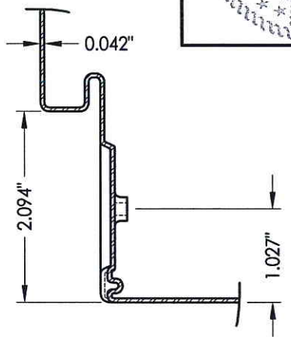




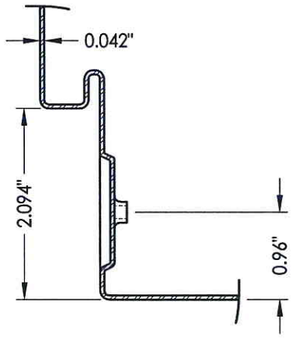
STRIKE AT LATCH



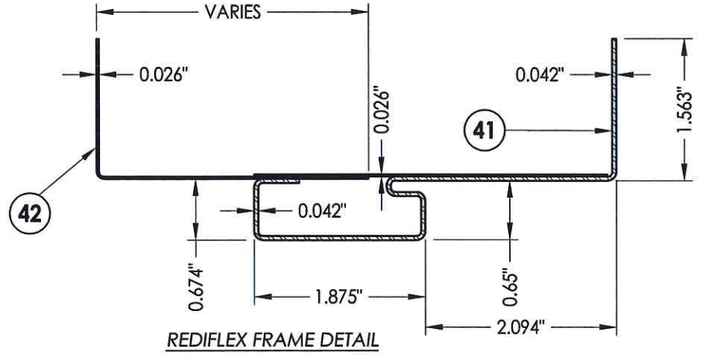
STRIKE AT DEADBOLT



SECTION A-A



SECTION B-B



REDIFLEX FRAME DETAIL

NOTES:

1. HEADER AND SIDE BASE JAMB (41) MINIMUM 18 GA. GALV. STEEL.
2. HEADER AND SIDE CLOSURE JAMB (42) MINIMUM 22 GA. GALV. STEEL.
3. FRAME SHOWN WITHOUT OPTIONAL STEEL TRIM CASING.
4. NON-KERF FRAMES DO NOT MEET AIR AND WATER CRITERIA.

STATE OF TEXAS
LYNDON F SCHMIDT
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PROFESSIONAL ENGINEER
7-18-13

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME

PART OR ASSEMBLY: STEEL FRAME CROSS SECTIONS & DETAILS

NO.	DATE	REVISIONS	BY

DATE: 7/9/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4354
SHEET 2 OF 7

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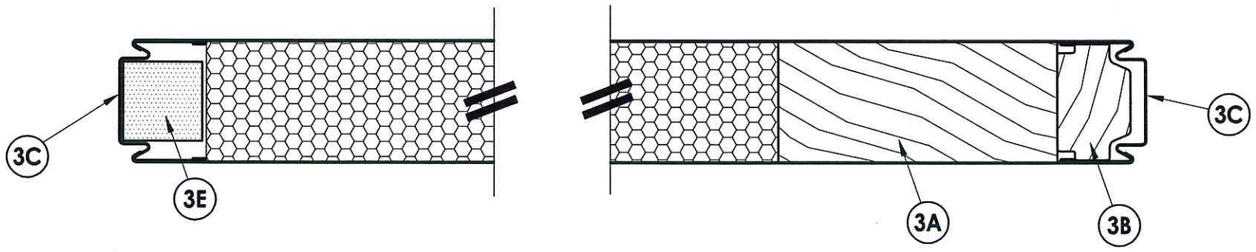
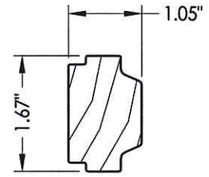
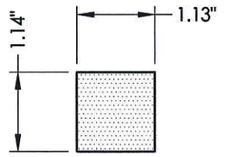


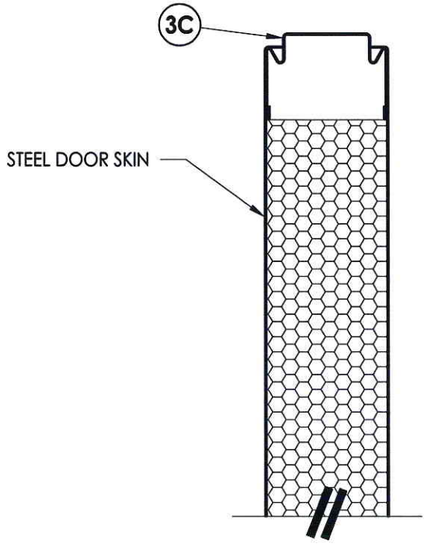
1/3 HORIZONTAL CROSS SECTION
Door panel

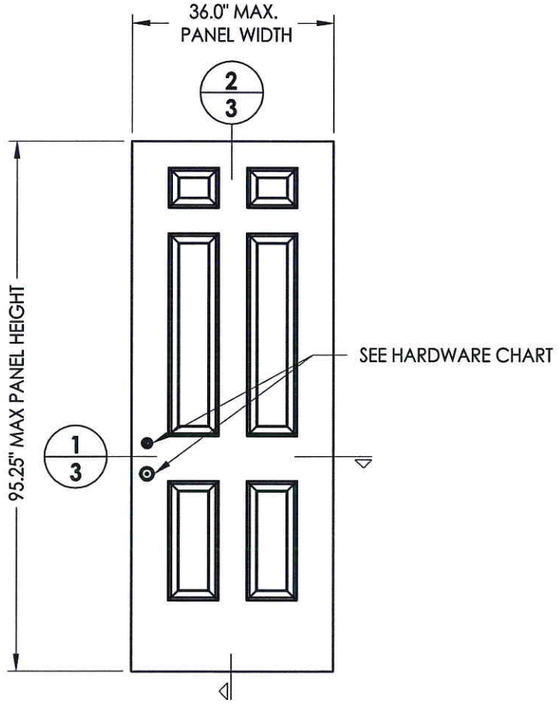


3B LATCH STILE
Wood Reinforcement



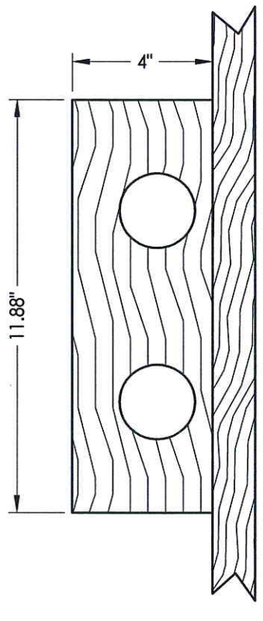
3E HINGE STILE
Comp. Reinforcement



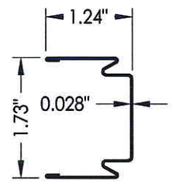


50 DOOR PANEL
JELD-WEN

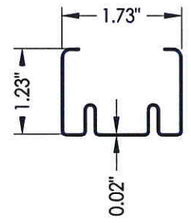
STEEL SKIN: 0.020" MIN. THICK
FOAM CORE: POLYSTYRENE (1.0 PCF DENSITY)



3A LOCK BLOCK
Wood

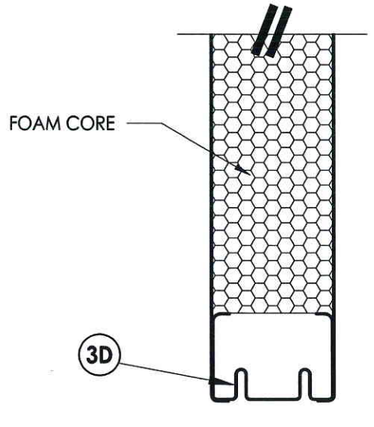


3C STILE & TOP RAIL
Steel

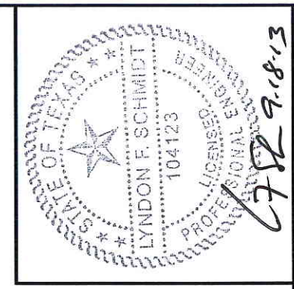


3D BOTTOM RAIL
Steel

HARDWARE CHART	
MANUFACTURER	MODEL
KWIKSET	LEVER: 200 SERIES DEADBOLT: 600 SERIES



2/3 VERTICAL CROSS SECTION
Door panel



7.8.13

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME

PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	BY	REVISIONS

DATE: 7/9/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4354
SHEET 3 OF 7

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INTERIOR

EXTERIOR

1/4 **HORIZONTAL CROSS SECTION**

2/4 **HORIZONTAL CROSS SECTION**

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
PROFESSIONAL ENGINEER

9.18.13

Documents Prepared By: Lyndon F. Schmidt, P.E.
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:
DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 7/9/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4354
SHEET 4 OF 7

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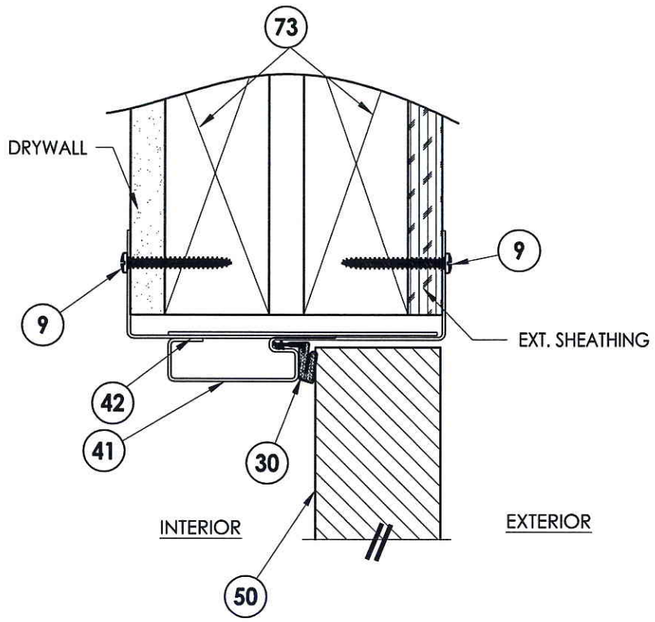

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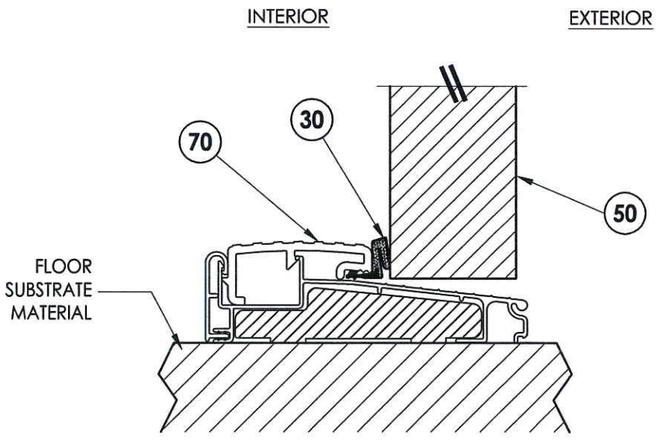

2/5 **VERTICAL CROSS SECTION**

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

STATE OF TEXAS * LYNDON F. SCHMIDT 104123 LICENSED PROFESSIONAL ENGINEER * 9-18-13

PRODUCT: *DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME*

PART OR ASSEMBLY: *VERTICAL CROSS SECTIONS*

NO.	DATE	BY

REVISIONS

DATE: 7/9/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4354
SHEET 5 OF 7

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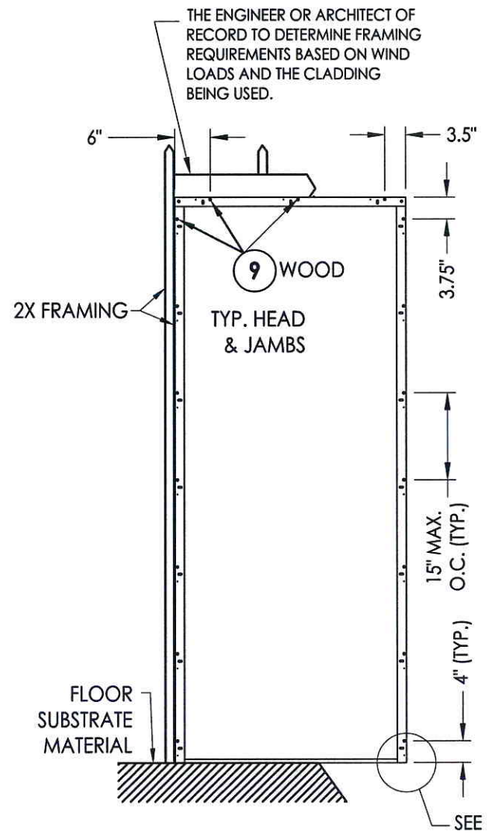
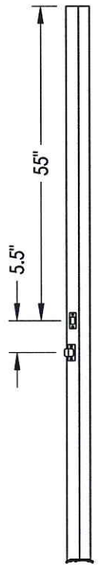
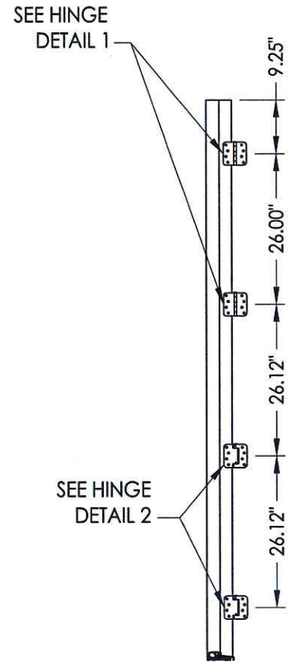


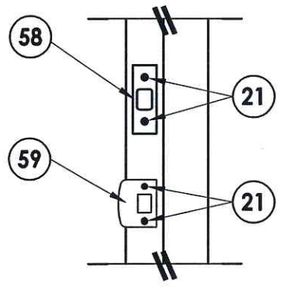
FRAME ANCHORING
Stud construction



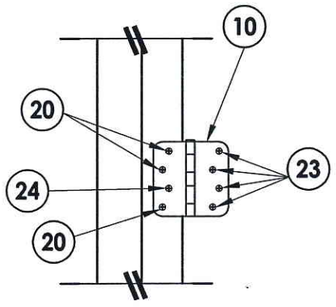
STRIKE JAMB



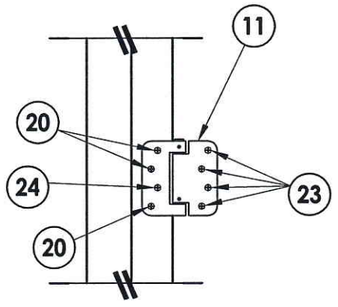
HINGE JAMB



STRIKE PLATE DETAIL



HINGE DETAIL 1



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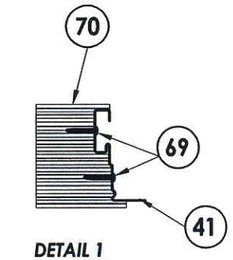
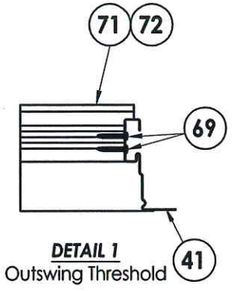


DETAIL 1
ADA Threshold



DETAIL 1
Outswing Threshold

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:
DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
FRAME ANCHORING

NO.	DATE	REVISIONS	BY

DATE: 7/9/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4354
SHEET 6 OF 7

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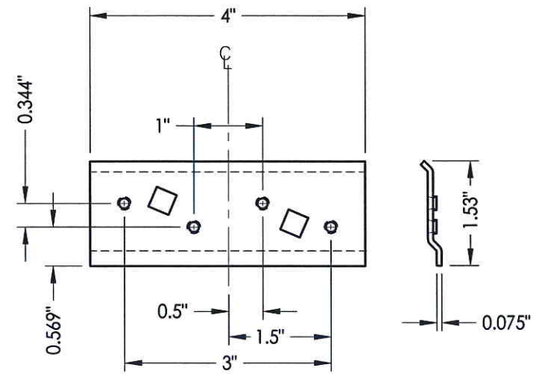
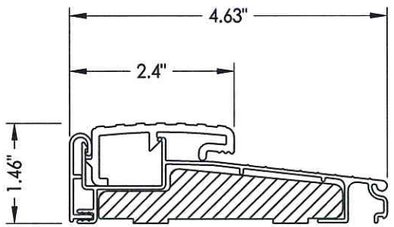
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING: SG >= 0.42	WOOD
9	#8 x 1-3/4" PFH WS	STEEL
10	4" X 4" HINGE	STEEL
11	4" X 4" SPRING HINGE	STEEL
20	10-24 X 1/2" PFH MS	STEEL
21	#8 x 3" PFH WS	STEEL
23	#10 X 1" PFH SMS	STEEL
24	#9 x 2-1/4" PFH WS	STEEL
29	JAMB HINGE REIN. 14 GA. 4" x 4" x 1.53" (.075" GALV. STEEL) BY DUNBARTON FR00505	STEEL
30	COMPRESSION WEATHERSTRIPPING QLON QDS 650 BY SCHLEGEL	FOAM
41	REDIFLEX JAMB BASE 18 GA. (0.042" MIN. GALV. STEEL) BY DUNBARTON	STEEL
42	REDIFLEX JAMB CLOSURE 22 GA. (.026" MIN. GALV. STEEL) BY DUNBARTON	STEEL
50	STEEL DOOR PANEL - by JELD-WEN	-
58	STRIKE PLATE - DEADBOLT	STEEL
59	STRIKE PLATE - LATCHBOLT	STEEL
69	#8 X 1-1/4" PWH SMS	STEEL
70	OUTSWING THRESHOLD	ALUM/COMP



29 HINGE REINFORCEMENT



70 OUTSWING THRESHOLD
Endura

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY
REVISIONS		

DATE: 7/9/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4354
SHEET 7 OF 7

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