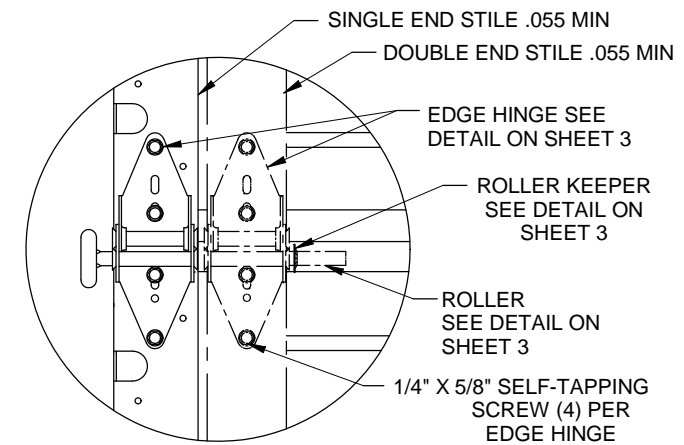
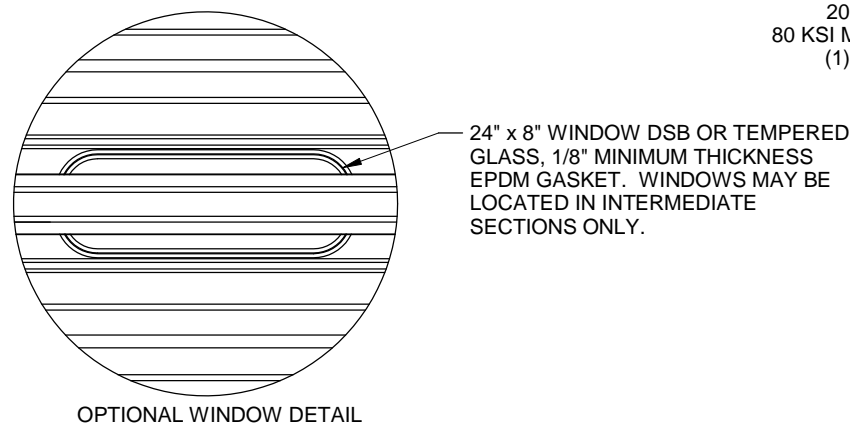


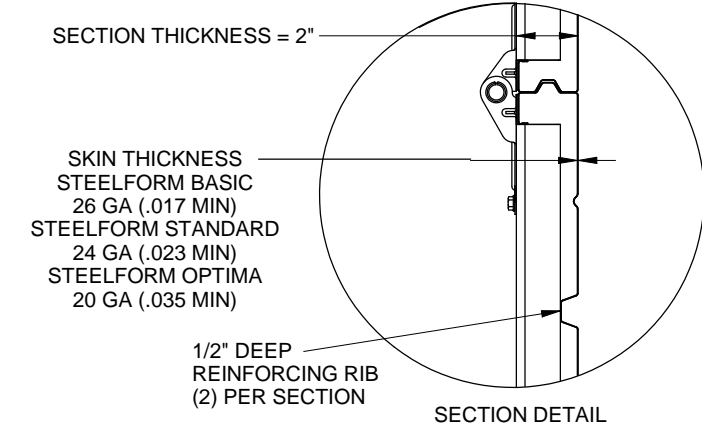
TOP FIXTURE NOTES:
 EITHER TYPE MAY BE USED, TYPED DETERMINED BY DOOR HEIGHT AND OR DOOR WEIGHT
 DOUBLE END STILES REQUIRED ON DOORS OVER 16'-2" WIDE



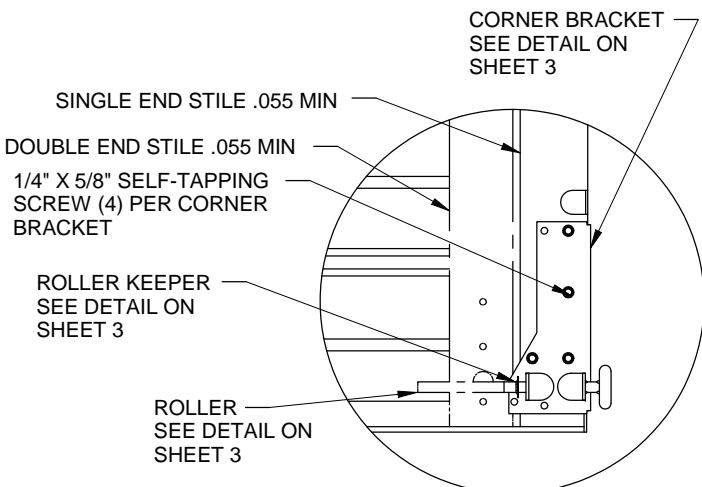
EDGE HINGE MOUNTING DETAIL
 DOUBLE END STILES REQUIRED
 ON DOORS OVER 16'-2" WIDE



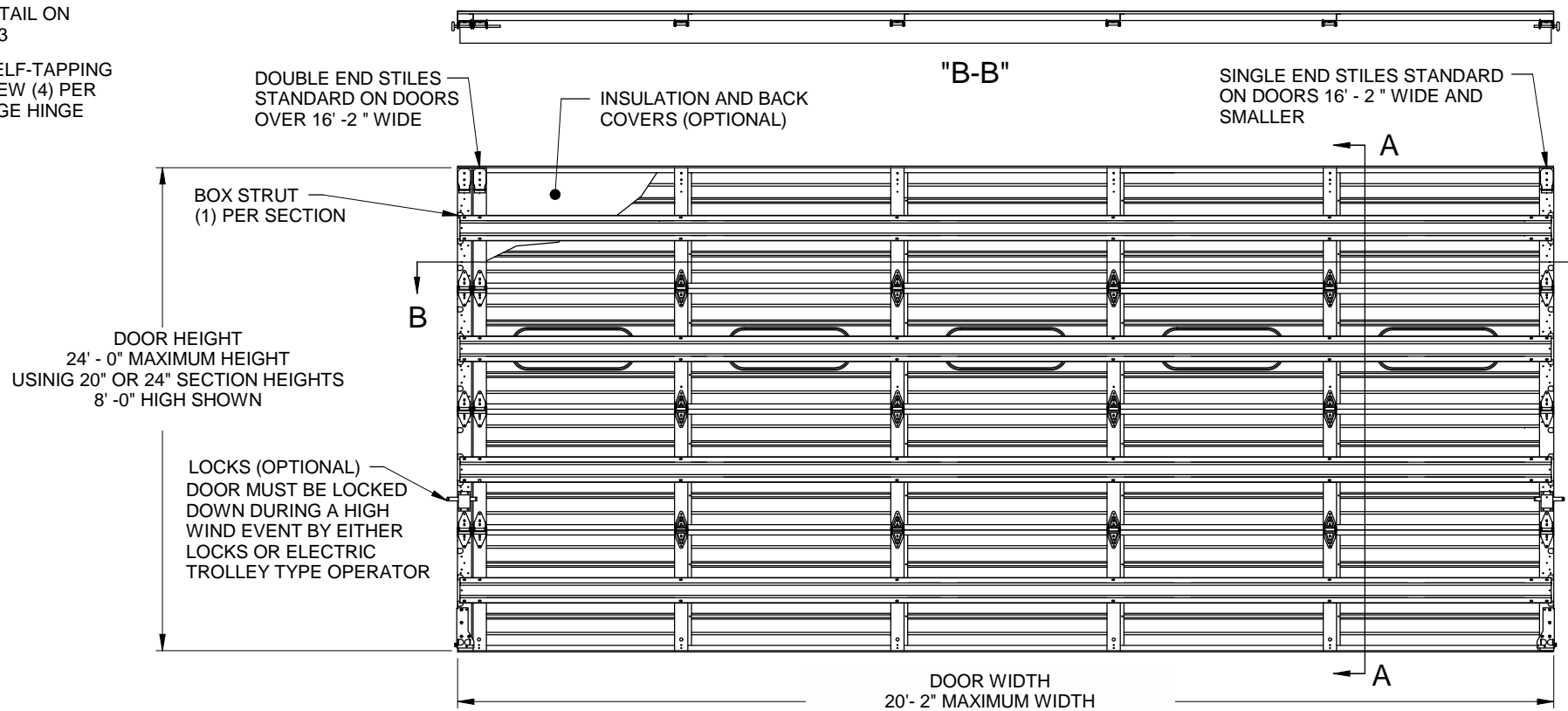
OPTIONAL WINDOW DETAIL



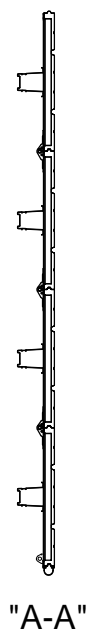
SKIN THICKNESS
 STEELFORM BASIC
 26 GA (.017 MIN)
 STEELFORM STANDARD
 24 GA (.023 MIN)
 STEELFORM OPTIMA
 20 GA (.035 MIN)



CORNER BRACKET MOUNTING DETAIL
 DOUBLE END STILES REQUIRED
 ON DOORS OVER 16'-2" WIDE



DOOR WIDTH
 20'-2" MAXIMUM WIDTH
 18'-2" WIDE SHOWN, SEE SHEET 2
 FOR OTHER DOOR WIDTHS
 TRACK AND COUNTER BALANCE ASSEMBLIES
 WERE OMITTED FROM ALL DETAILS ON THIS
 PAGE FOR CLARITY. SEE SHEET 2 FOR TRACK AND COUNTER BALANCE DETAILS



"A-A"

DOORS TESTED PER
 ANSI/DASMA 108
 FOR STATIC AIR PRESSURE

DOOR WIDTH	DESIGN LOAD	
8' - 2"	+ 47.8	- 54.7
9' - 2"	+ 42.1	- 47.6
10' - 2"	+ 37.2	- 42.1
11' - 2"	+ 31.0	- 37.7
12' - 2"	+ 30.7	- 34.1
13' - 2"	+ 28.0	- 31.2
14' - 2"	+ 25.1	- 28.7
15' - 2"	+ 23.6	- 26.5
16' - 2"	+ 22.0	- 24.7
17' - 2"	+ 22.6	- 28.1
18' - 2"	+ 23.2	- 30.7
19' - 2"	+ 20.8	- 27.6
20' - 2"	+ 18.8	- 24.9

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 F.P.E #65940
 698 Timber Creek Road
 Dixon Illinois 61021

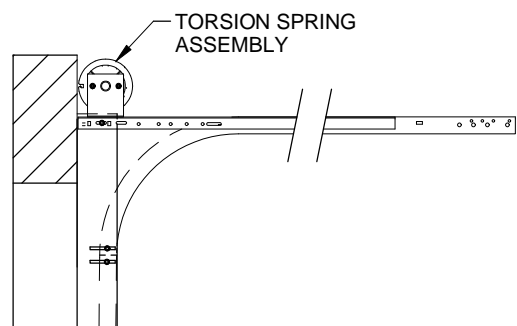
REV.	DESCRIPTION	ECN NO.	DATE	ECN NO.
B	1) WAS RICHARD A BAUMANN, P.E. 2) UPDATED JAMB ATTACHMENTS	7804.01	10/02/17	
A	RELEASE FOR PRODUCTION	6338.01	03/12/12	
				6338.01

SCALE: NONE
 DRAWN BY: G.WEDEKIND
 CHECKED BY: GW
 DATE: 03/12/12
 ECN NO.: 6338.01

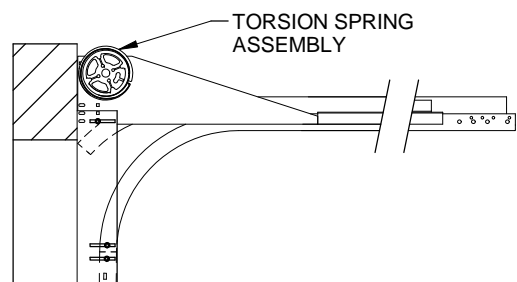
RAYNOR
 GARAGE DOORS
 BOX 488 EAST RIVER ROAD
 DIXON, ILL. 61021

TITLE: SPEC, WIND LOAD
 STEELFORM 26 GA,
 24 GA, 20 GA.

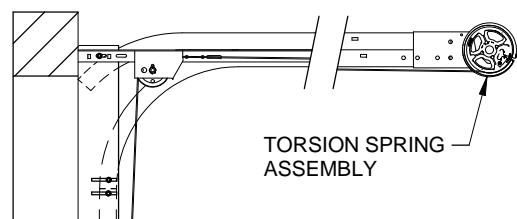
NO. P-2405 SHEET 1 OF 4 REV B



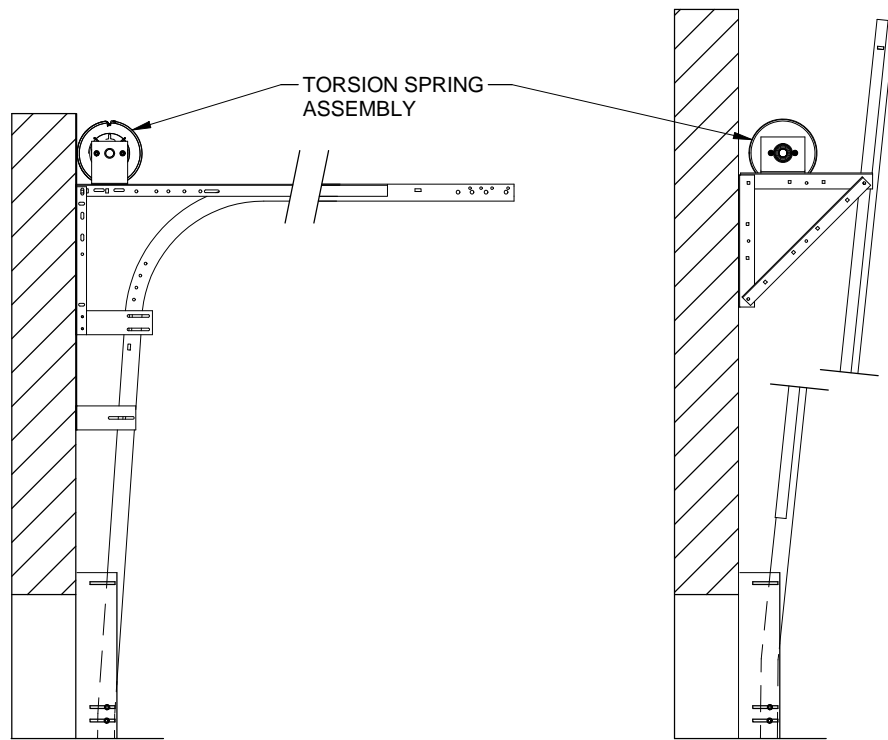
NORMAL HEADROOM TRACK
2" TRACK ANGLE MOUNT SHOWN
2" TRACK BRACKET MOUNT AVAILABLE
3" TRACK ANGLE MOUNT AVAILABLE



FRONT MOUNT LOW HEADROOM TRACK
2" TRACK ANGLE MOUNT SHOWN
2" TRACK BRACKET MOUNT AVAILABLE
3" TRACK ANGLE MOUNT AVAILABLE

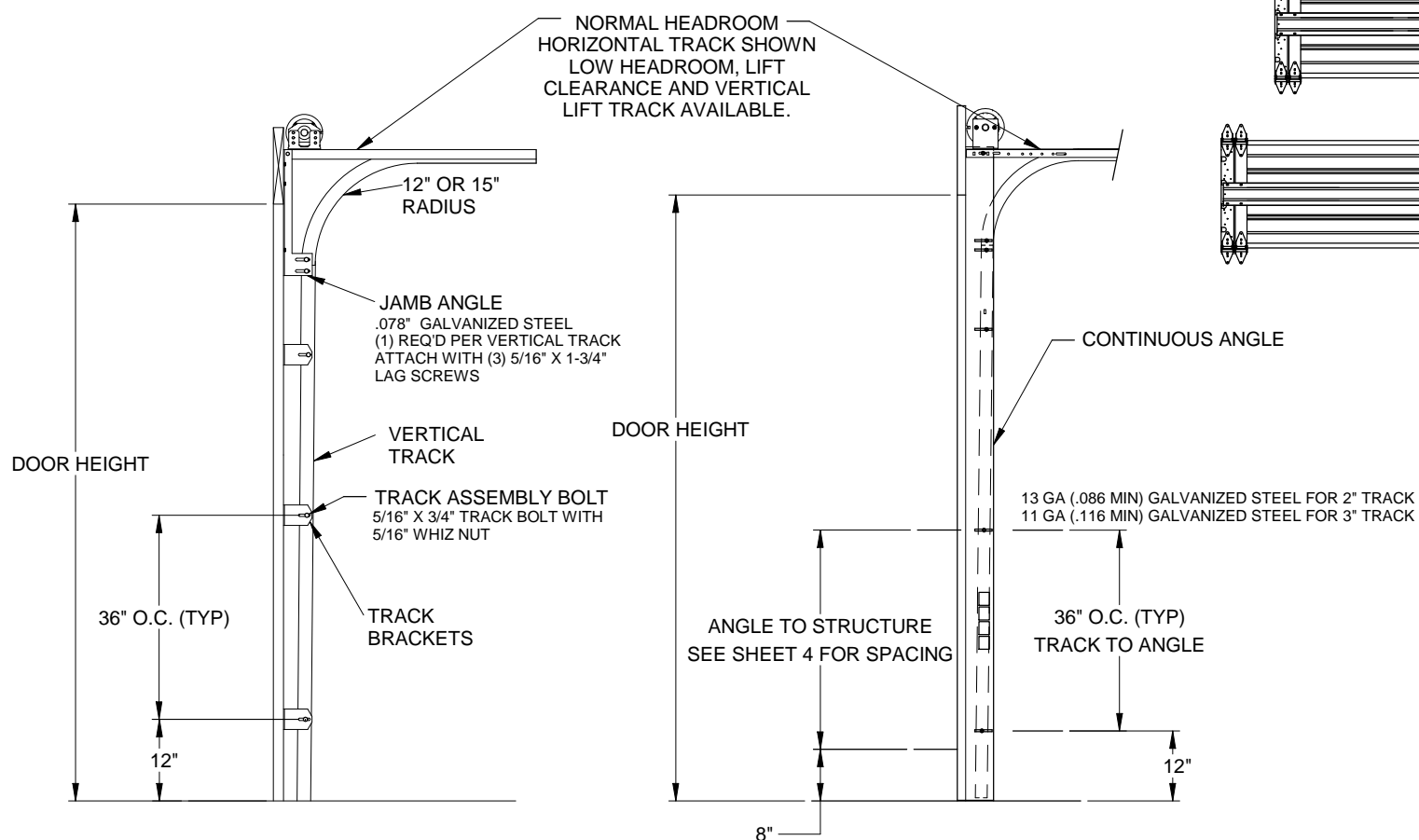
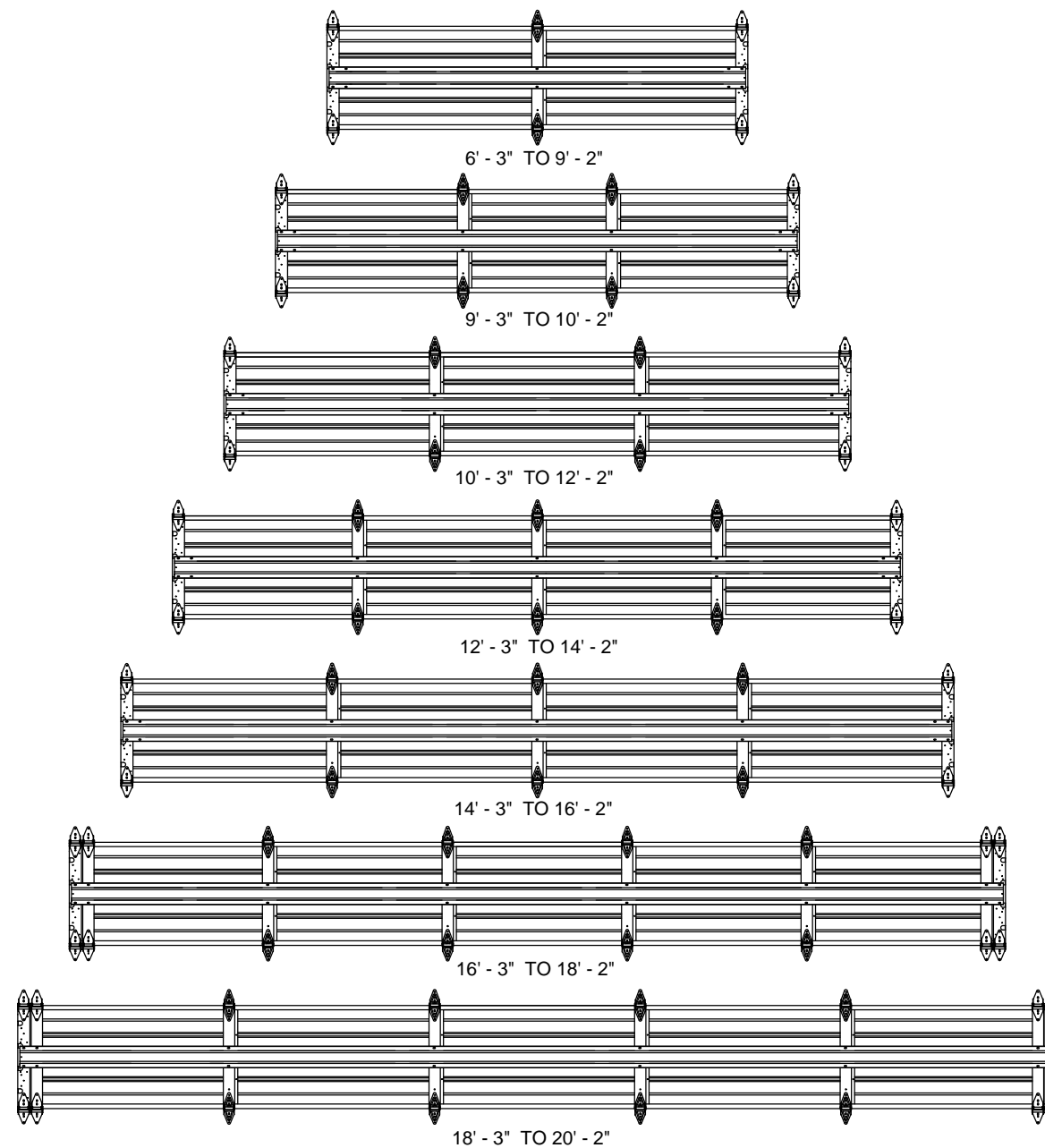


REAR MOUNT LOW HEADROOM TRACK
2" TRACK ANGLE MOUNT SHOWN
2" TRACK BRACKET MOUNT AVAILABLE
3" TRACK ANGLE MOUNT AVAILABLE



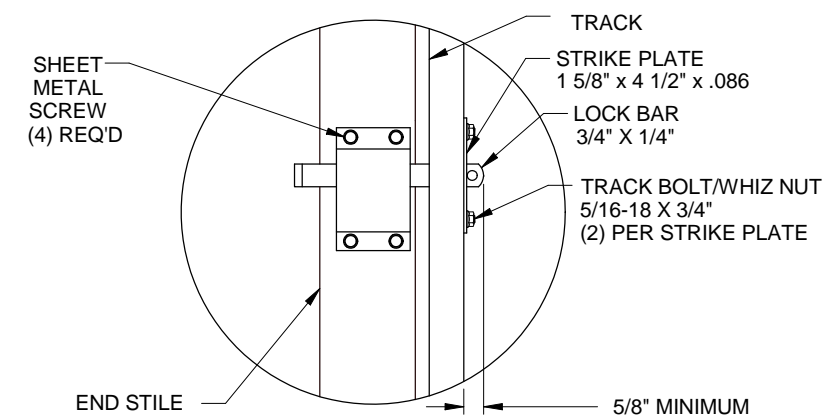
LIFT CLEARANCE TRACK
2" TRACK ANGLE MOUNT SHOWN
2" TRACK BRACKET MOUNT AVAILABLE
3" TRACK ANGLE MOUNT AVAILABLE

VERTICAL LIFT TRACK
2" TRACK ANGLE MOUNT SHOWN
2" TRACK BRACKET MOUNT AVAILABLE
3" TRACK ANGLE MOUNT AVAILABLE

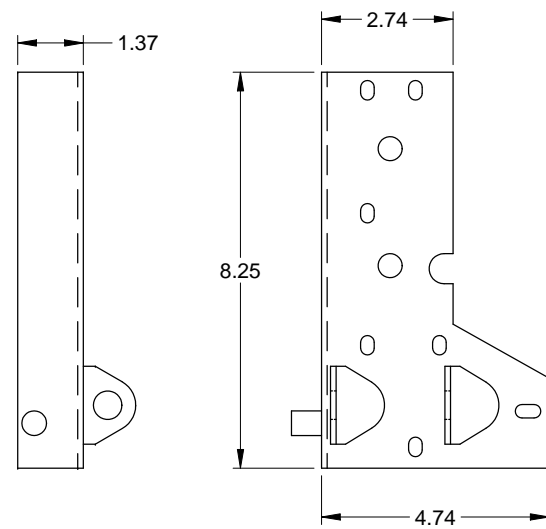


TYPICAL TRACK INSTALLATION
BRACKET MOUNT
WOOD JAMBS

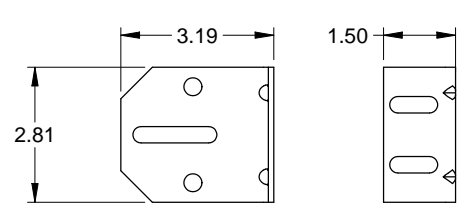
TYPICAL TRACK INSTALLATION
ANGLE MOUNT
WOOD, STEEL OR MASONRY
JAMBS



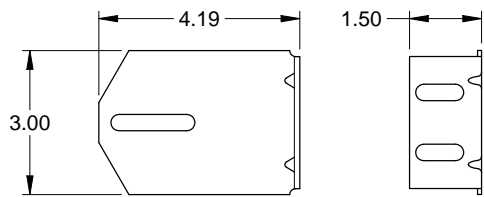
OPTIONAL INTERIOR
LOCK DETAIL



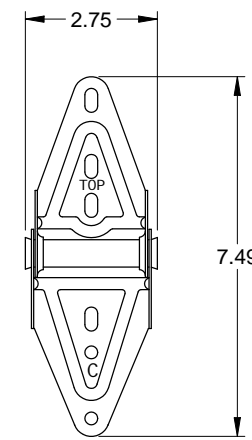
SCALE 1:2
CORNER BRACKET
(FOR DOORS OVER 600 LBS)
.116 GALV. STEEL



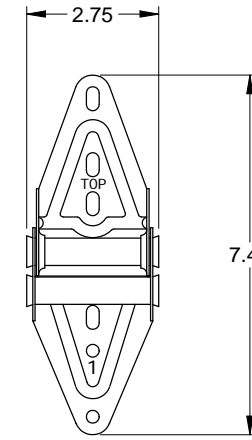
SCALE 1:2
3" TRACK BRACKET
.116 GALV. STEEL



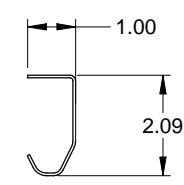
SCALE 1:2
4" TRACK BRACKET
.116 GALV. STEEL



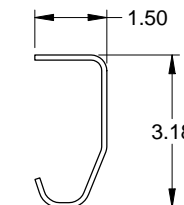
SCALE 1:2
CENTER HINGE
.045 GALV. STEEL



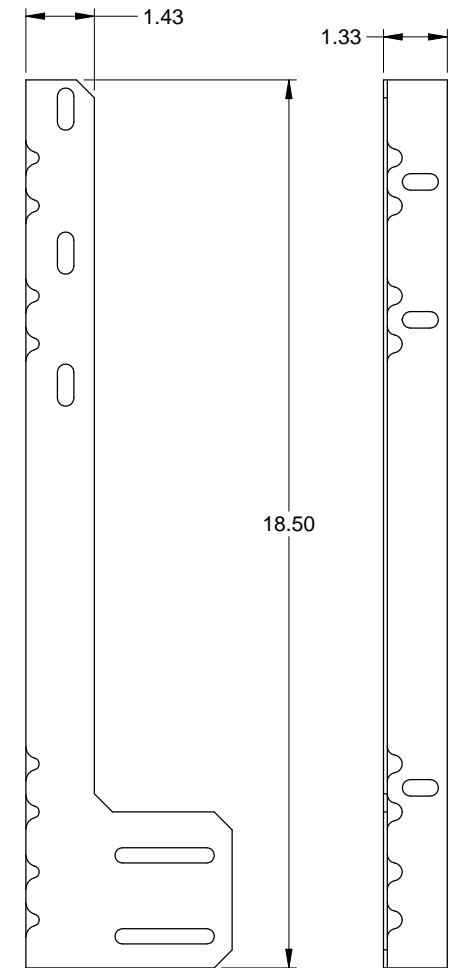
SCALE 1:2
EDGE HINGE
.086 GALV. STEEL



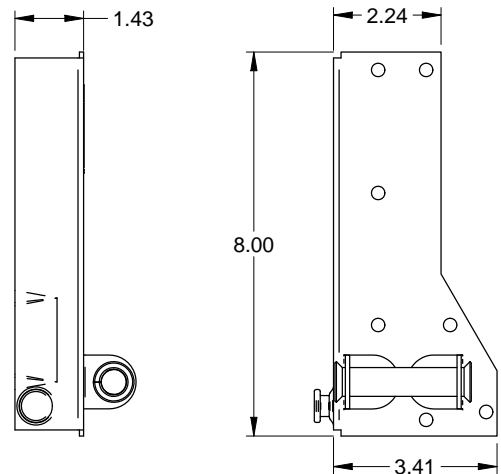
SCALE 1:2
2" TRACK
.055 MIN. GALV. STEEL



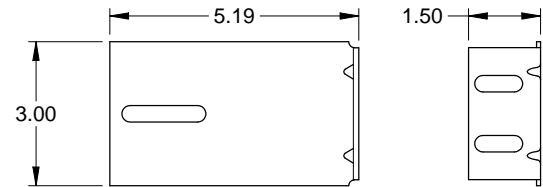
SCALE 1:2
3" TRACK (OPTIONAL)
.105 GALV. STEEL



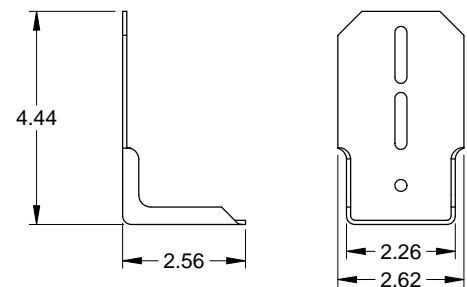
SCALE 1:2
JAMB ANGLE
.078 GALV. STEEL



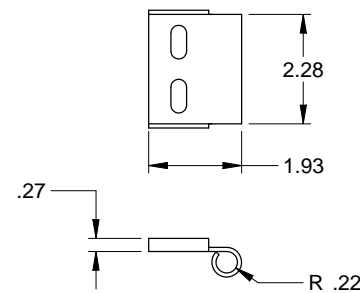
SCALE 1:2
CORNER BRACKET
(FOR DOORS UP TO 600 LBS)
.116 GALV. STEEL



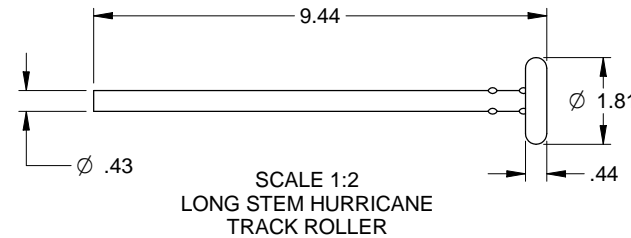
SCALE 1:2
5" TRACK BRACKET
.116 GALV. STEEL



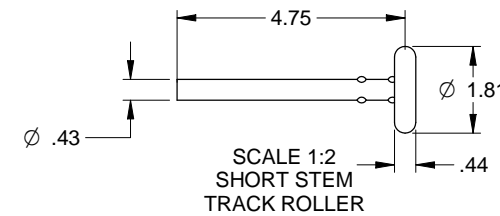
SCALE 1:2
LIGHT COMMERCIAL TOP FIXTURE
(FOR DOORS 5 SECTIONS HIGH OR LESS)
.086 GALV. STEEL



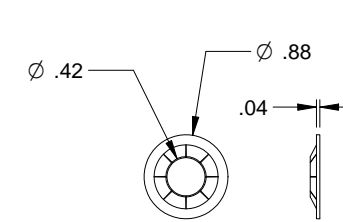
SCALE 1:2
ROLLER CARRIER
.116 GALV. STEEL
ATTACHED TO LIGHT COMMERCIAL TOP FIXTURE
WITH (2) TRACK BOLTS AND WHIZ NUTS



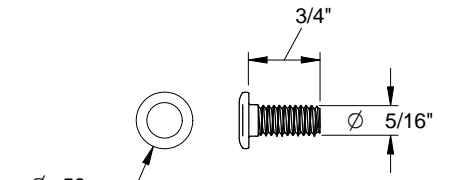
SCALE 1:2
LONG STEM HURRICANE
TRACK ROLLER



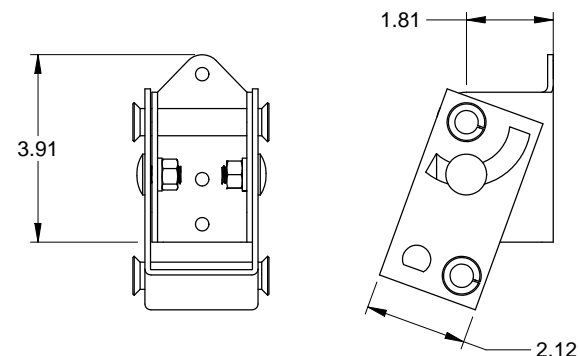
SCALE 1:2
SHORT STEM
TRACK ROLLER



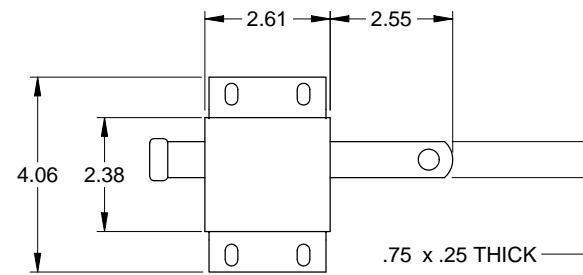
SCALE 1:1
RETAINING NUT



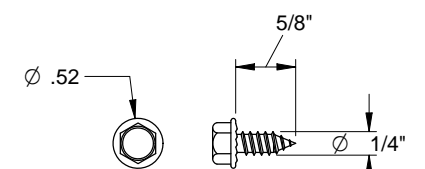
SCALE 1:1
TRACK BOLT



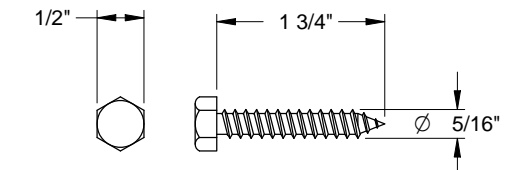
SCALE 1:2
HEAVY COMMERCIAL TOP FIXTURE
.116 GALV. STEEL



SCALE 1:
SLIDE LOCK (OPTIONAL)
CASE .086 GALV. STEEL



SCALE 1:1
SHEET METAL SCREW



SCALE 1:1
HEX HEAD LAG SCREW

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REV.	DESCRIPTION	ECN NO.	DATE	SCALE: NONE	DRAWN BY: G.WEDEKIND	RAYNOR GARAGE DOORS BOX 448 EAST RIVER ROAD DIXON, ILL. 61021	TITLE: SPEC, WIND LOAD STEELFORM 26 GA, 24 GA, 20 GA. NO. P-2405	SHEET 3 OF 4	REV B
				CHECKED BY: GW					
				DATE: 03/12/12					
				ECN NO.: 6338.01					

STEEL JAMB
STRUCTURAL STEEL BY OTHERS.
3/16" MIN THICKNESS.

5/16" X 5/8" THREAD CUTTING SCREW
WITH 5/16" WASHER
ALLOWABLE TENSION LOAD = 1048 LBS
STARTING 8" FROM THE FLOOR, THEN 36" O.C.
OR
5/16-12 X 1" SELF DRILLING SCREW
WITH 5/16" WASHER
ALLOWABLE TENSION LOAD = 971 LBS
STARTING 8" FROM THE FLOOR, THEN 36" O.C.

ANGLE MOUNT
ANGLE TURNED IN WITH
SECTION LAPPING THE
JAMB BY 1" MIN.

TRACK ASSEMBLY ATTACHMENT TO STEEL JAMB

2" TRACK ANGLE MOUNT TURNED IN SHOWN
3" TRACK ANGLE MOUNT AVAILABLE

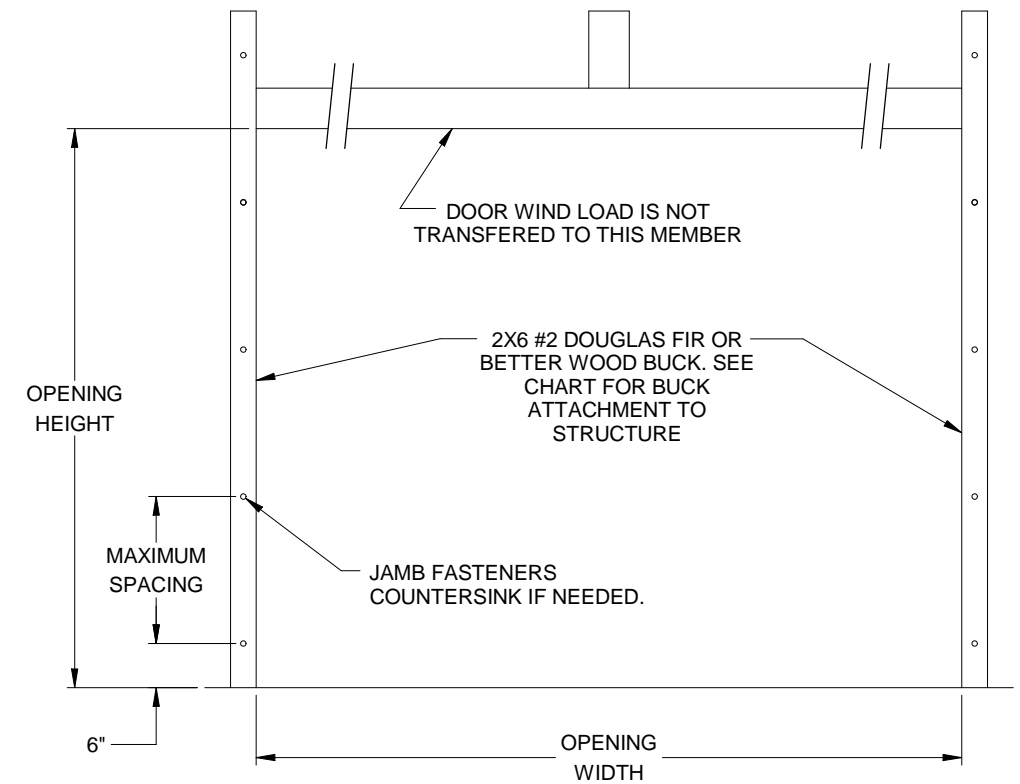
MASONRY JAMB
MINIMUM EDGE DISTANCE
2-1/2"
2-1/2" EMBEDMENT
2500 PSI CONCRETE (MIN)

3/8" ITW TRUBOLT
ALLOWABLE TENSION LOAD = 893 LBS
STARTING 8" FROM THE FLOOR, THEN 36" O.C.
OR
3/8" KWIKBOLT3
ALLOWABLE TENSION LOAD = 1379
STARTING 8" FROM THE FLOOR, THEN 36" O.C.

ANGLE MOUNT
ANGLE TURNED OUT WITH
SECTION LAPPING THE
JAMB BY 1" MIN.

TRACK ASSEMBLY ATTACHMENT TO MASONRY JAMB

2" TRACK ANGLE MOUNT TURNED OUT SHOWN
3" TRACK ANGLE MOUNT AVAILABLE



JAMB ATTACHMENT

JAMB ATTACHMENT NOTES

1. MAXIMUM POSITIVE LOAD PER JAMB = $(18'-2" \times 23.2 \text{ PSF}) / 2 = 211 \text{ LBS PER FOOT}$
2. MAXIMUM NEGATIVE LOAD PER JAMB = $(18' -2" \times -30.7 \text{ PSF}) / 2 = 279 \text{ LBS PER FOOT.}$
3. DESIGN OF THE SUPPORTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER AND SHALL BE DESIGNED FOR THE JAMB LOADS LISTED IN NOTES 1 AND 2.
4. ALTERNATE JAMB ATTACHMENTS MAY BE USED IF APPROVED BY A REGISTERED PROFESSIONAL ENGINEER.
5. DASMA TECHNICAL DATA SHEET TDS-161 MAY BE USED FOR ALTERNATE JAMB ATTACHMENTS.
6. 3/8" DIAMETER LAG SCREWS REQUIRED 1/16" PILOT HOLE AND 1-1/2" MINIMUM EDGE DISTANCE.

WOOD OR MASONRY JAMB

WOOD BACK JAMB
SEE JAMB ATTACHMENT DETAIL
FOR ANCHORAGE REQUIREMENTS

3/8" X 1-3/4" HEX HEAD LAG SCREW
WITH 3/8" WASHER IN SOUTHERN PINE
ALLOWABLE TENSION LOAD = 655 LBS, (NOTE 6)
STARTING 8" FROM THE FLOOR, THEN 36" O.C.
MAXIMUM SPACING.
OR
3/8" X 1-3/4" HEX HEAD LAG SCREW
WITH 3/8" WASHER IN SPRUCE, PINE, FIR
ALLOWABLE TENSION LOAD = 482 LBS (NOTE 6)
STARTING 8" FROM THE FLOOR, THEN 27" O.C.
MAXIMUM SPACING

ANGLE MOUNT
ANGLE TURNED IN WITH
SECTION LAPPING THE
JAMB BY 1" MIN.

TRACK ASSEMBLY ATTACHMENT TO WOOD BACK JAMB

2" TRACK ANGLE MOUNT TURNED IN SHOWN
3" TRACK ANGLE MOUNT AVAILABLE

WOOD OR MASONRY JAMB

WOOD BACK JAMB
SEE JAMB ATTACHMENT DETAIL
FOR ANCHORAGE REQUIREMENTS

3/8" X 1-3/4" HEX HEAD LAG SCREW
WITH 3/8" WASHER IN SOUTHERN PINE
ALLOWABLE TENSION LOAD = 655 LBS (NOTE 6)
STARTING 8" FROM THE FLOOR, THEN 36" O.C.
MAXIMUM SPACING.
OR
3/8" X 1-3/4" HEX HEAD LAG SCREW
WITH 3/8" WASHER IN SPRUCE, PINE, FIR
ALLOWABLE TENSION LOAD = 482 LBS (NOTE 6)
STARTING 8" FROM THE FLOOR, THEN 27" O.C.
MAXIMUM SPACING

ANGLE MOUNT
ANGLE TURNED OUT WITH
SECTION LAPPING THE
JAMB BY 1"

TRACK ASSEMBLY ATTACHMENT TO WOOD BACK JAMB

2" TRACK ANGLE MOUNT TURNED OUT SHOWN
3" TRACK ANGLE MOUNT AVAILABLE

2X6 ATTACHMENT TO STRUCTURE						
STRUCTURE TYPE	FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE	MINIMUM ON CENTER SPACING	DIMENSION A (MAXIMUM ON CENTER SPACING)	ALLOWABLE TENSION LOAD
2500 PSI MIN. CONCRETE	1/4" TAPCON+ (PLUS) WITH 1-1/8" OD WASHER	2"	2.5	6"	24"	691
SOUTHERN PINE	3/8" X 3" LAG WITH 1-1/8" OD WASHER	1.50"	1.50"	1.50"	24"	655
SPRUCE PINE FIR	3/8" X 3" LAG WITH 1-1/8" OD WASHER	1.50"	1.50"	1.50"	24"	482