

CLOPAY / IDEAL / HOLMES
3717 / C7X17 / -- / 27GA 1.75" THICK MINOR RIB
3718 / C7X18 / -- / 27GA 1.75" THICK FLUSH
3720 / C7X20 / 240U / 27GA 2" THICK MINOR RIB
3722 / COX22 / -- / 20GA 2" THICK FLUSH
3724 / C7X24 / 244U / 24GA 2" THICK MINOR RIB
3730 / -- / -- / 27GA 3" THICK MINOR RIB

SHEET:
1 OF 4

REVISIONS
REV. NO. ZONE: DATE: ECN NO. APPVD: DESCRIPTION
02 - 05/13/14 - RJK NEW IMPACT WINDOW CROSS SECTION SHEET 2.
03 - 03/04/15 - RJK CORRECTED FOR 3 CENTER STILES AND FOUR WINDOWS.
04 - 4/15/15 - SH ADDED WIND SPEED TABLE.
05 - 8/10/20 - SH UPDATED TITLE BLOCK AND REMOVED WIND CHART
06 - 04/22/25 - JDW ADDED 3" DOOR MODEL 3730.
07 - 10/3/25 - JDW UPDATED IMPACT RESISTANT GLAZING DETAILS.

MAX. DOOR HEIGHT: 18'-0" MAX. SECTION HT. 24"

VIEW "B"

VIEW "C"

MAX. DOOR WIDTH = 14'-2" INSIDE ELEVATIONS

OPTIONAL GLAZING SHALL BE IMPACT RESISTANT GLAZING. MAXIMUM GLAZING SIZE (DLO) IS 22"x9-7/8". SEE SECTION B-B ON SHEET 2 FOR DETAILS. GLAZING MAY BE INSTALLED IN TOP SECTION (NOT SHOWN) OR INTERMEDIATE SECTION (SHOWN).

16 GA. DOUBLE END STILE

(1) 20 GA. GALV. STEEL BACKER PLATE AT EACH INTERMEDIATE HINGE LOCATION. BACKER PLATE ATTACHED WITH DOUBLE SIDED ACRYLIC TAPE TO BACK OF DOOR.

(1) 4" T-STRUT PER SECTION.

LOCK POSITION (BOTH SIDES).

T-STRUT.

(2) LHR TOP BRACKETS USED AS INNER BOTTOM BRACKET.

T-STRUTS SHOWN WITH GLAZING IN TOP SECTION.

DOOR HEIGHT 'A'	NUMBER OF SECTIONS
UP TO 8'-0"	4
8'-3" THRU 10'-0"	5
10'-3" THRU 12'-0"	6
12'-3" THRU 14'-0"	7
14'-3" THRU 16'-0"	8
16'-3" THRU 18'-0"	9

#14x5/8" SHEET METAL SCREWS

1/4"x3/4" SELF TAPPING SCREWS.

14 GA. END HINGES VIEW "B"

14 GA. (MIN.) INTERMEDIATE HINGE VIEW "C"

SNAP LATCH ENGAGES ONTO VERTICAL TRACK. ONE SNAP LATCH ON EACH SIDE OF DOOR.

SLIDE BOLT LOCK ENGAGES INTO VERTICAL TRACK. ONE LOCK ON EACH SIDE OF DOOR.

END STILE.

OUTSIDE KEYED HANDLE.

END STILE.

INSIDE HANDLE

OUTSIDE KEYED LOCK WITH SNAP LATCH LOCK OPTION.

OUTSIDE KEYED LOCK WITH LOCK BAR LOCKING.

END STILE.

LOCK BAR ENGAGES IN TRACK ON EACH SIDE OF DOOR.

DESIGN LOADS: +52.0 P.S.F. & -58.0 P.S.F.
TEST LOADS: +78.0 P.S.F. & -87.0 P.S.F.

Unless Stated Otherwise TOLERANCES are
.0 = ±.031
.00 = ±.015
.000 = ±.005
.0000 = ±.001
Degrees = ±1/2°
Unless Stated Otherwise DIMENSIONS ARE IN INCHES.

MANUFACTURING PRODUCT CODE
C-DSIU-1D477

PART NO.: N/A

WINDLOAD RATING
W8 DP52T

DESCRIPTION: 1-3/4" INTELICORE DOORS UP TO 14'2"W (SEE TABLE)

DRAWN BY: SH DATE: 4/7/14 SCALE: NTS DWG. SIZE B

CHECKED BY: SH DATE: 4/7/14 SHEET 1 OF 4

DWG. NO.: 104842 VER: IBC

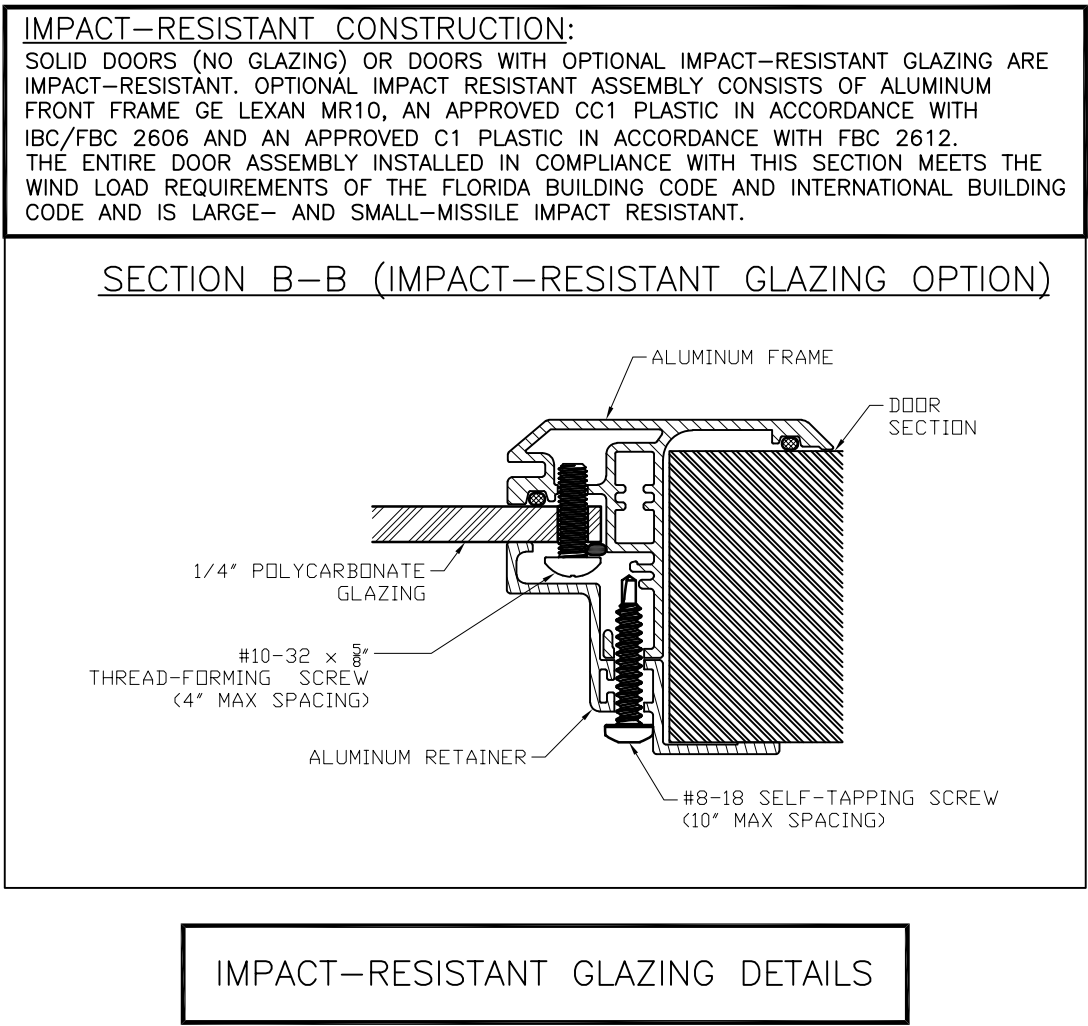
JAMES D. WHEELER
LICENSE
No. 91932
STATE OF
FLORIDA
ENGINEER
Jim Wheeler

Digitally signed by Jim Wheeler
Date: 2026.08.19 18:51:21
INSIDE SLIDE BOLT LOCK OPTION.

DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91932

FLORIDA PRODUCT APPROVAL 48387.17

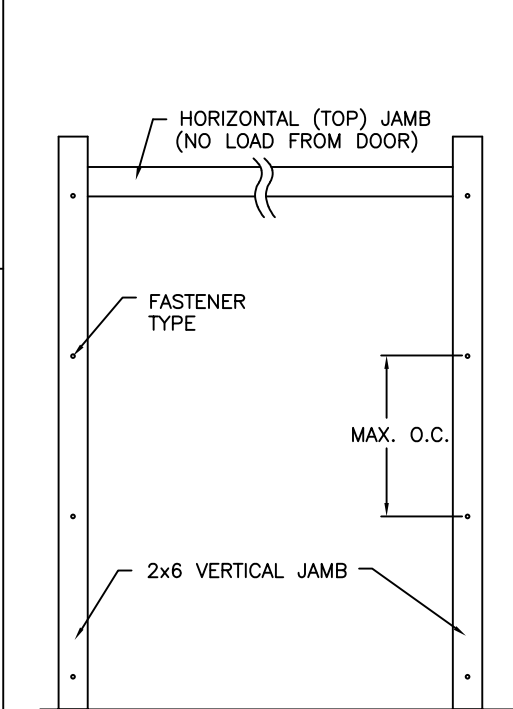
4				3				2				1			
CLOPAY / IDEAL / HOLMES 3717 / C7X17 / -- / 27GA 1.75" THICK MINOR RIB 3718 / C7X18 / -- / 27GA 1.75" THICK FLUSH 3720 / C7X20 / 240U / 27GA 2" THICK MINOR RIB 3722 / COX22 / -- / 20GA 2" THICK FLUSH 3724 / C7X24 / 244U / 24GA 2" THICK MINOR RIB 3730 / -- / -- / 27GA 3" THICK MINOR RIB				SHEET: 2 OF 4		REVISIONS									
				REV. NO.		ZONE:		DATE:		ECN NO.		APPVD:		DESCRIPTION	
				07		-		-		-		-		SEE REVISION HISTORY ON SHEET ONE.	



DESIGN ENGINEER:
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Unless Stated Otherwise TOLERANCES are .0 = ±.031 .00 = ±.015 .000 = ±.005 .0000 = ±.001 Degrees = ±1/2'		PART NO.: N/A	
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Clopay CORPORATION 8585 Duke Boulevard Mason, OH 45040 USA Tel. No. 513-770-4800 Fax No. 513-770-4853		DESCRIPTION: 1-3/4" INTELICORE DOORS UP TO 14'2"W (SEE TABLE)	
DRAWN BY: SH		DATE: 4/7/14	SCALE: NTS
CHECKED BY: SH		DATE: 4/7/14	DWG. SIZE B
DWG. NO.: 104842		SHEET 2 OF 4	
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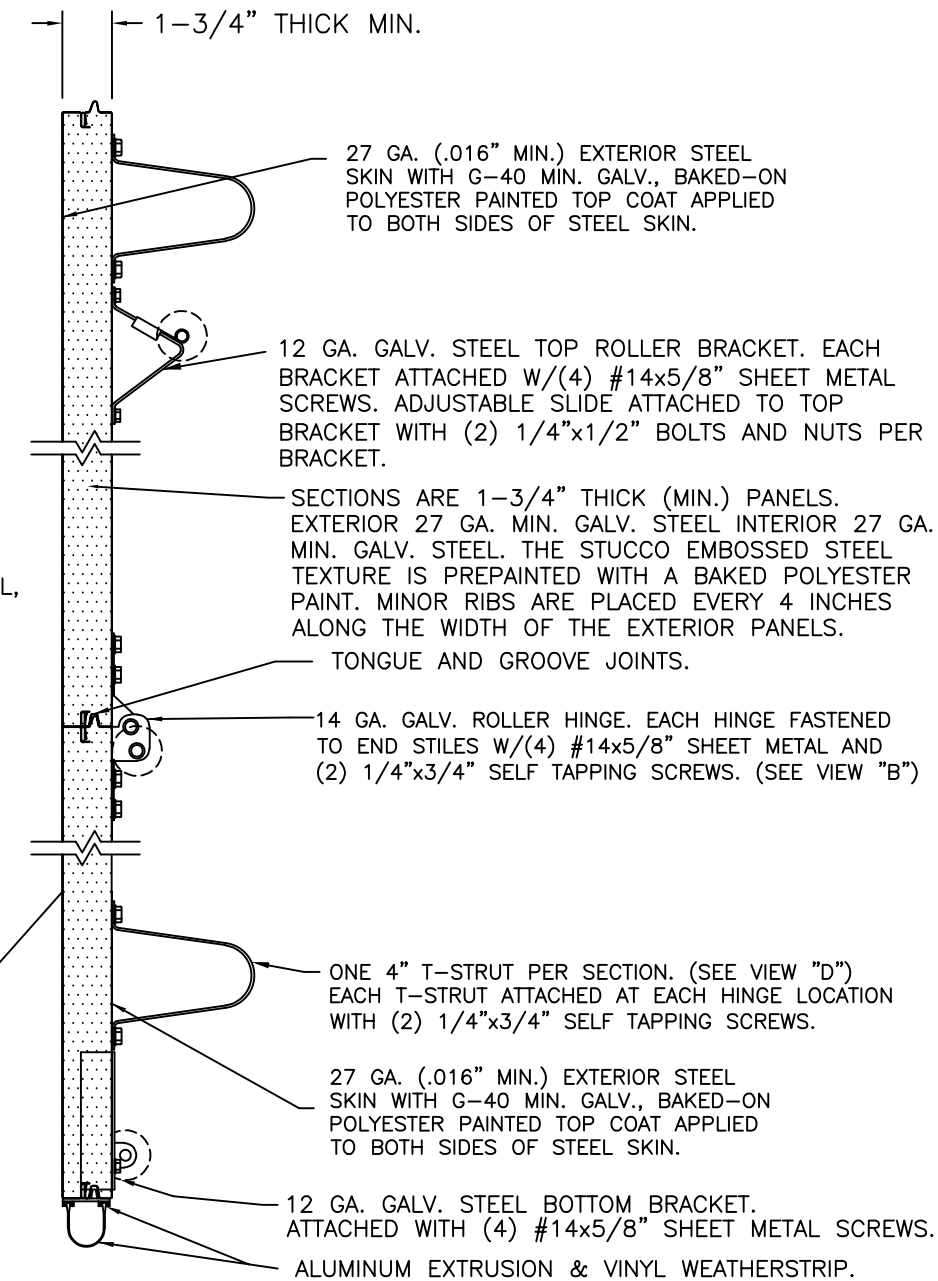
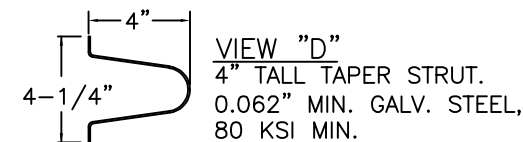
CLOPAY / IDEAL / HOLMES	SHEET:		REVISIONS				
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3730 / -- / -- / 27GA 3" THICK MINOR RIB							
							1-3/4" THICK MIN.



JAMB TO SUPPORTING STRUCTURE ATTACHMENT

- NOTES:
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE TRACK AND THEN FROM THE TRACK TO THE 2x6 VERTICAL SYP (GRADE #2 OR BETTER) JAMBS. NO LOAD FROM THE DOOR IS TRANSFERRED TO THE HORIZONTAL (TOP) JAMB.
 2. EACH VERTICAL JAMB SEES A MAXIMUM DESIGN LOAD OF +364 LB & -406 LB. PER LINEAR FOOT OF JAMB.
 3. ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
 4. A 1/3 STRESS INCREASE FOR WIND LOAD WAS NOT USED IN THE CALCULATION OF ALLOWABLE LOADS FOR ANCHORS AND FASTENERS FOR STEEL, CONCRETE AND MASONRY.

NOTE: 2x6 WOOD JAMBS ARE NOT REQUIRED WITH CONTINUOUS ANGLE MOUNT TRACK. HOWEVER, IF DESIRED ON STEEL JAMBS OR CONCRETE OR BLOCK WALLS, APPROVED FASTENERS AS DETAILED BELOW SHOULD BE INCREASED IN LENGTH BY 1-1/2" AND INSTALLED DIRECTLY THROUGH THE ANGLE AND 2x6 WOOD JAMBS INTO THE STEEL JAMBS OR CONCRETE OR BLOCK WALLS. ANCHORS CAN BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE. CONTINUOUS ANGLE TRACK CAN BE ANCHORED DIRECTLY TO GROUT REINFORCED BLOCK WALL OR 3,000 PSI MIN. CONCRETE COLUMN OR STEEL JAMBS.



SECTION A-A (SIDE VIEW)

FASTENER ATTACHMENT TO SUPPORTING STRUCTURE SCHEDULES

BUILDING TYPE	FASTENER TYPE	MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS*	STEEL WASHERS REQUIRED?
HOLLOW BLOCK WALL	1/4" x 1-1/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	4-1/2"	1" O.D.
GROUT FILLED BLOCK WALL	1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	7-1/2"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR	6-1/2"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	5-1/4"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	13-3/4"	INCLUDED
4000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	24"	INCLUDED
WOOD FRAME (SYP 0.55 SG)	1/2" x 3" LAG SCREW (ASTM A307, GRADE A) 1-5/8" EMBED INTO STRUCTURE	15"	1" O.D.
14GA STEEL (0.060" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	6"	1" O.D.
12GA STEEL (0.105" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	11"	1" O.D.
1/8" STEEL	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	13"	1" O.D.

* FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
CLOPAY DOES NOT SUPPLY JAMB ATTACHMENT FASTENERS.
MINIMUM DISTANCE BETWEEN CENTER OF ANCHOR AND EDGE OF CONCRETE BLOCK: 2-1/2", EXCLUDING STUCCO THICKNESS.

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PART NO.: N/A

WINDLOAD RATING
W8 DP52T

DESCRIPTION: 1-3/4" INTELLICORE DOORS UP TO 14'2"W (SEE TABLE)

DRAWN BY: SH

DATE: 4/7/14

SCALE: NTS

DWG. SIZE B

CHECKED BY: SH

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SHEET 3 OF 4

VER: IBC

DWG. NO.: 104842

FLORIDA PRODUCT APPROVAL 48387.17

CLOPAY / IDEAL / HOLMES

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2" TRACK CONFIGURATION.

NOTE DOUBLE TRACK HEADROOM, HI-LIFT TRACK, FOLLOW-THE- ROOF TRACK, AND VERTICAL LIFT TRACK ARE AVAILABLE OPTIONS. TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING.

HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT).

DOOR COUNTERBALANCE SYSTEM

13 GA GALV. STEEL FLAG BRACKET ATTACHED TO JAMB WITH (3) 5/16" X 1-5/8" LAG SCREWS AND TO TRACK WITH (2) 1/4" RIVETS.

AS RQD: SPACING NTE 14" O.C.

63"

2" GALV. STEEL TRACK, TRACK THICKNESS: 0.083".

50"

38"

24"

10"

3-1/2"

VERTICAL TRACK TO BE BRACKET MOUNT OR CONTINUOUS ANGLE (1-3/4"x2-1/4"x12 GA MIN.) MOUNT. ALL BRACKETS/TRACK CLIPS ARE 12 GA. GALV. STEEL. BRACKETS/CLIPS ARE ATTACHED TO TRACK WITH EITHER TWO 1/4" RIVETS OR ONE 1/4" BOLT AND NUT.

DOOR HEIGHT

"L"

6'-6"	70"
7'-0"	76"
7'-6"	82"
8'-0"	88"
8'-6"	94"
9'-0"	100"
9'-6"	106"
10'-0"	112"
10'-6"	118"
11'-0"	124"
11'-6"	130"
12'-0"	136"
12'-6"	142"
13'-0"	148"
13'-6"	154"
14'-0"	160"
14'-6"	166"
15'-0"	172"
15'-6"	178"
16'-0"	184"
16'-6"	190"
17'-0"	196"
17'-6"	202"
18'-0"	208"

3" TRACK CONFIGURATION.

NOTE DOUBLE TRACK HEADROOM, HI-LIFT TRACK, FOLLOW-THE- ROOF TRACK, AND VERTICAL LIFT TRACK ARE AVAILABLE OPTIONS. TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING.

CENTER HANG REQUIRED FOR DOORS OVER 8' HIGH.

3" GALV. TAPERED STEEL TRACK AND ANGLE. TRACK THICKNESS: 0.101". ANGLE THICKNESS: 0.080". MIN. ANGLE DIMENSIONS 3-1/4" x 2-7/8".

VERTICAL/HORIZONTAL TRACK JUNCTION. TWO 1/4" BOLTS & NUTS FOR EACH TRACK.

14" MAXIMUM SPACING FROM LAST MOUNTING SLOT TO TRACK JUNCTION

ADDITIONAL MOUNTING SLOTS SPACED AT 12" CENTERS.

12" ON CENTER

46"

34"

ONE. 1/4" TRACK BOLT AND NUT AT EACH MOUNTING SLOT LOCATION.

22"

10"

3-1/2"

DOOR HEIGHT

VERTICAL TRACK LENGTH

7'-0"	72"
8'-0"	84"
9'-0"	96"
10'-0"	108"
12'-0"	132"
14'-0"	156"
16'-0"	180"
17'-0"	204"
18'-0"	228"

JAMB CONFIGURATION FOR 2" TRACK.

BRACKET MOUNT JAMB CONFIGURATION

1" DOOR OVERLAP (EACH SIDE)

2x6 SYP WOOD JAMB. REQUIRED FOR BRACKET MOUNT.

2-1/2" X 12 GA GALV. STEEL TRACK BRACKETS FASTENED TO WOOD JAMBS WITH 5/6" X 1-5/8" LAG SCREWS NOT TO EXCEED 14" ON-CENTER.

2" GALV. STEEL TRACK FASTENED TO 12 GA GALV STEEL TRACK BRACKETS WITH EITHER (2) 1/4" DIA. RIVETS OR (1) 1/4" X 5/8" BOLT & NUT PER TRACK BRACKET.

OPTIONAL STOP MOULDING BY INSTALLER (TO SUIT).

16 GA GALV. STEEL DOUBLE-END-STILE FASTENED WITH (1) #8 X 1/2" WAFER SCREW.

7/16" I.D. ROUND PUSH NUT FASTENER.

14 GA. GALV. STEEL ROLLER HINGES FASTENED TO END STILES W/(4) EACH #14x5/8" SHEET METAL SCREWS AND (2) 1/4" SELF TAPPING SCREWS PER END HINGE.

2" DIA. 7-1/2" LONG STEM, 10 BALL STEEL ROLLER WITH STEEL OR NYLON TIRE.

SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

ANGLE MOUNT JAMB CONFIGURATION

2x6 SYP JAMB (IF PRESENT; SEE JAMB NOTES ON SHEET 3).

ONE 5/16" x 1-5/8" LAG SCREW SPACED AT THE SAME DISTANCES AS THE TRACK BOLTS (I.E. 3-1/2", 10", AND EVERY 12"). ALSO TWO LAG SCREWS LOCATED ABOVE VERTICAL - HORIZONTAL TRACK JUNCTION.

JAMB CONFIGURATION FOR 3" TRACK.

1" DOOR OVERLAP (EACH SIDE)

2x6 SYP JAMB (IF PRESENT; SEE JAMB NOTES ON SHEET 3).

3-1/4" x 2-7/8" MIN. x 0.080" TAPERED ANGLE. SEE LAG BOLT MOUNTING AT TRACK CONFIGURATION BELOW.

0.101" THICK 3" GALV. STEEL TRACK FASTENED TO TAPERED ANGLE. TRACK ATTACHED TO TAPERED ANGLE WITH ONE 1/4"x5/8" BOLT & NUT AT EACH MOUNTING SLOT.

OPTIONAL STOP MOULDING BY DOOR INSTALLER (TO SUIT).

16 GA GALV. STEEL DOUBLE-END-STILE FASTENED WITH (1) #8 X 1/2" WAFER SCREW.

7/16" I.D. ROUND PUSH NUT FASTENER.

14 GA. GALV. STEEL ROLLER HINGES FASTENED TO END STILES W/(4) EACH #14x5/8" SHEET METAL SCREWS AND (2) 1/4" SELF TAPPING SCREWS PER END HINGE.

3" DIA. 8-1/2" LONG STEM BALL BEARING STEEL ROLLER.

SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

DOUBLE TRACK LOW HEADROOM OPTION (AVAIL. FOR BOTH 2" AND 3" TRACK)

DOUBLE HORIZONTAL TRACK.

DESIGN ENGINEER:

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SHEET:

4 OF 4

REV. NO.

07

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-

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DESCRIPTION

SEE REVISION HISTORY ON SHEET ONE.

MANUFACTURING PRODUCT CODE

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N/A

WINDLOAD RATING

W8 DP52T

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