

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	/	C0X22	/	--	/	20GA 2" THICK FLUSH
3724	/	C7X24	/	244U	/	24GA 2" THICK MINOR RIB
3730	/	--	/	--	/	27GA 3" THICK MINOR RIB

SHEET:
1 OF 4

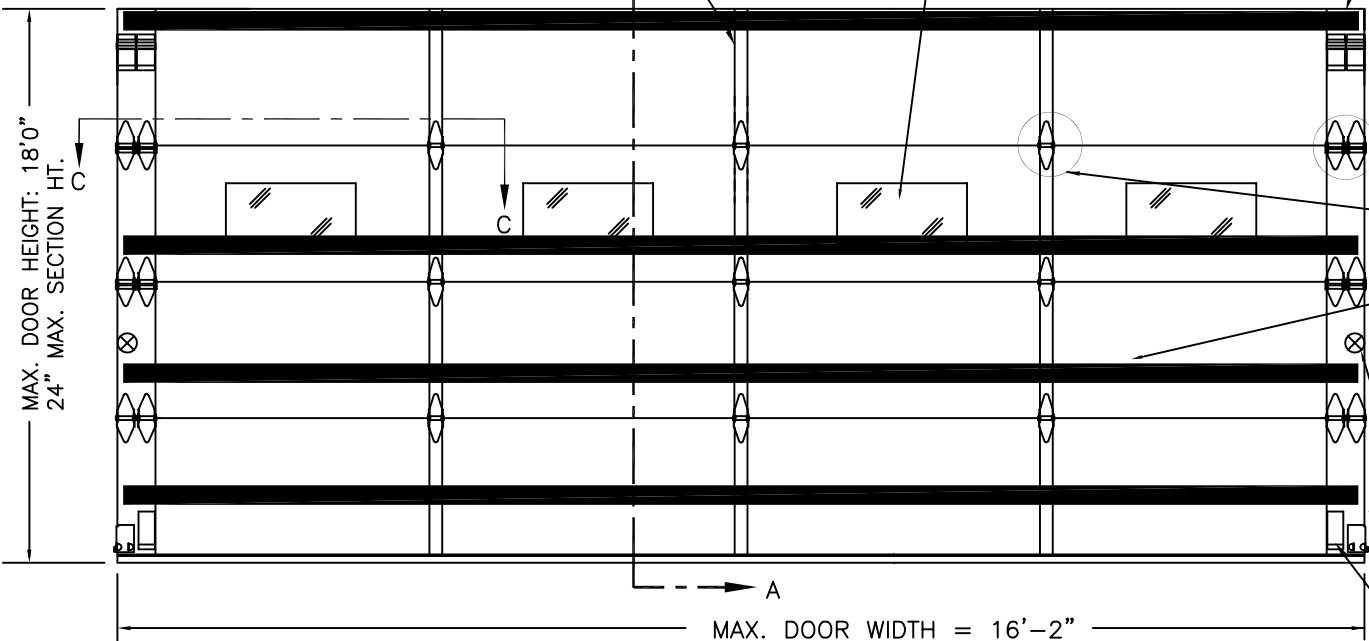
REVISIONS

REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
02	-	5/16/14	-	-	MAT. NOTES & GLASS BITE ADDED IMPACT WINDOW CROSS-SECTION
03	-	8/10/20	-	SH	UPDATED TITLE BLOCK AND REMOVED WIND CHART
04	-	3/6/25	-	JDW	ADDED MODEL 3730
05	-	10/6/25	-	DH	REVISED IMPACT RESISTANT GLAZING DETAILS

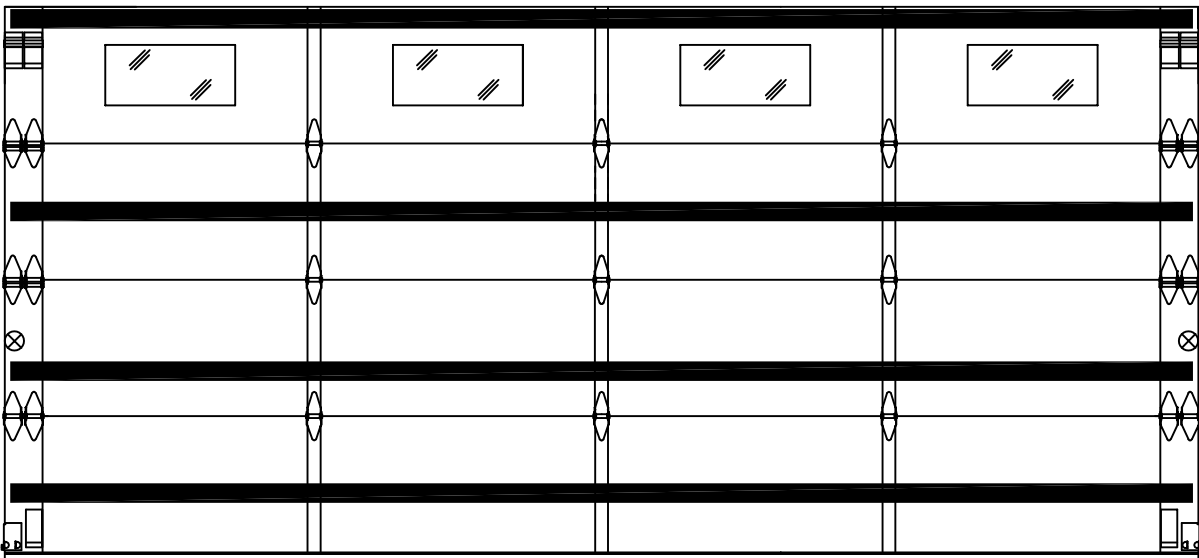
OPTIONAL GLAZING MAY BE STANDARD (DSB OR BETTER) OR IMPACT RESISTANT GLAZING. MAXIMUM GLAZING SIZE (DLO) IS 22"x9-7/8". SEE SECTION B-B ON SHEET 2 FOR DETAILS. GLAZING MAY BE INSTALLED IN TOP SECTION (NOT SHOWN) OR INTERMEDIATE SECTION (SHOWN).

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

16 GA. DOUBLE END STILE



T-STRUTS SHOWN WITH GLAZING IN TOP SECTION.



VIEW "B"
VIEW "C"

(1) 4" T-STRUT PER SECTION.

LOCK POSITION (BOTH SIDES).

T-STRUT.

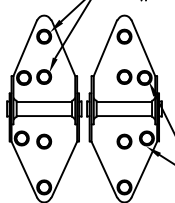
(2) LHR TOP BRACKETS USED AS INNER BOTTOM BRACKET.

#14x5/8" SHEET METAL SCREWS

MAX. DOOR WIDTH = 16'-2"
INSIDE ELEVATIONS

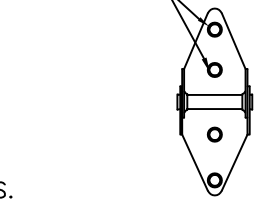
DOOR HEIGHT 'A'	NUMBER OF SECTIONS
UP TO 8'-0"	4
8'-3" THRU 10'-0"	5
10'-3" THRU 12'-0"	6
12'-3" THRU 14'-0"	7
14'-3" THRU 16'-0"	8
16'-3" THRU 18'-0"	9

#14x5/8" SHEET METAL SCREWS



14 GA. END HINGES
VIEW "B"

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



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

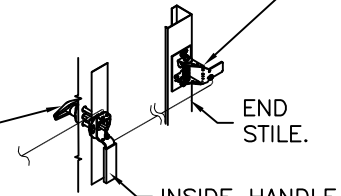
SNAP LATCH ENGAGES ONTO VERTICAL TRACK. ONE SNAP LATCH ON EACH SIDE OF DOOR.

END STILE.

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

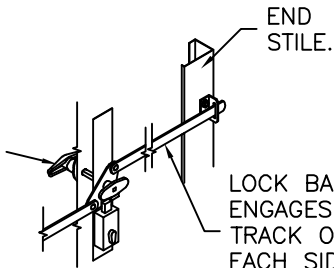
INSIDE SLIDE BOLT LOCK OPTION.

OUTSIDE KEYED HANDLE.



OUTSIDE KEYED LOCK WITH SNAP LATCH LOCK OPTION.

OUTSIDE HANDLE.



OUTSIDE KEYED LOCK WITH LOCK BAR LOCKING.

END STILE.

LOCK BAR ENGAGES IN TRACK ON EACH SIDE OF DOOR.

DESIGN LOADS: +37.0 P.S.F. & -42.0 P.S.F.
TEST LOADS: +55.5 P.S.F. & -63.0 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.

Clopay
CORPORATION

8585 Duke Boulevard
Mason, OH 45040 USA
Tel. No. 513-770-4800
Fax No. 513-770-4853

MANUFACTURING PRODUCT CODE
C-DSIU-1D477

PART NO.: N/A

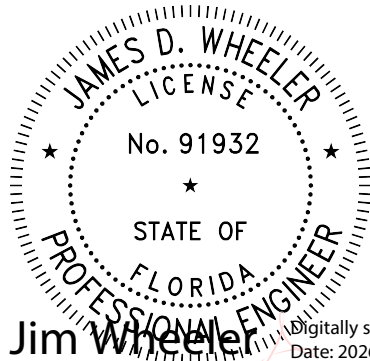
WINDLOAD RATING
W6 DP37T

DESCRIPTION: 1-3/4" INTELICORE DOORS UP TO 16'2"W (SEE TABLE)

DRAWN BY: SH DATE: 1/10/13 SCALE: NTS DWG. SIZE B

CHECKED BY: SH DATE: 1/10/13 SHEET 1 OF 4

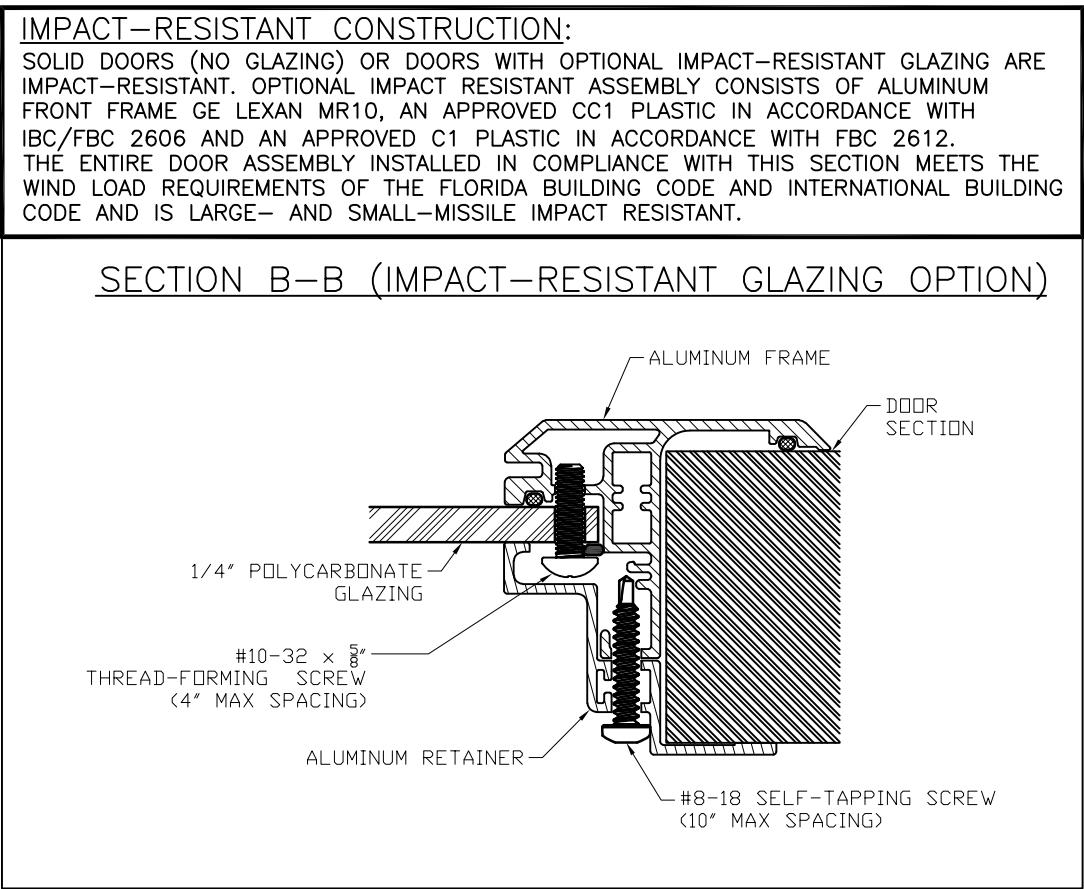
DWG. NO.: 104801 - A/B VER: IBC



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

FLORIDA PRODUCT APPROVAL 48387.13

CLOPAY	IDEAL	HOLMES
3717	/ C7X17	/ --
3718	/ C7X18	/ --
3720	/ C7X20	/ 240U
3722	/ COX22	/ --
3724	/ C7X24	/ 244U
3730	/ --	/ --



IMPACT-RESISTANT ASSEMBLY DETAILS
DRAWING 104801-A

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

SHEET:	REVISIONS					
2 OF 4	REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
	05	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.

DESIGN LOADS: +37.0 P.S.F. & -42.0 P.S.F.
TEST LOADS: +55.5 P.S.F. & -63.0 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.

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 16'2"W (SEE TABLE)		WINDLOAD RATING W6 DP37T	
DRAWN BY: SH	DATE: 1/10/13	SCALE: NTS	DWG. B
CHECKED BY: SH	DATE: 1/10/13	SHEET 2 OF 4	SIZE
DWG. NO.: 104801 - A/B		VER: IBC	

FLORIDA PRODUCT APPROVAL 48387.13

CLOPAY / IDEAL / HOLMES				SHEET: 3 OF 4		REVISIONS				
3717	/	C7X17	/	--	/	27GA 1.75" THICK MINOR RIB	REV. NO.	ZONE:	DATE:	ECN NO.
3718	/	C7X18	/	--	/	27GA 1.75" THICK FLUSH	APPVD:	DESCRIPTION		
3720	/	C7X20	/	240U	/	27GA 2" THICK MINOR RIB	05	-	-	-
3722	/	COX22	/	--	/	20GA 2" THICK FLUSH	SEE REVISION HISTORY ON SHEET ONE.			
3724	/	C7X24	/	244U	/	24GA 2" THICK MINOR RIB				
3730	/	--	/	--	/	27GA 3" THICK MINOR RIB				

HORIZONTAL (TOP) JAMB
(NO LOAD FROM DOOR)

FASTENER
TYPE

MAX. O.C.

2x6 VERTICAL JAMB

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 +296 LB & -336 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.

VIEW "D"

4"

4-1/4"

4" TALL TAPER STRUT.
0.062" MIN. GALV. STEEL,
80 KSI MIN.

SECTION A-A (SIDE VIEW)

1-3/4" THICK MIN.

27 GA. (.016" MIN.) EXTERIOR STEEL SKIN WITH G-40 MIN. GALV., BAKED-ON POLYESTER PAINTED TOP COAT APPLIED TO BOTH SIDES OF STEEL SKIN.

12 GA. GALV. STEEL TOP ROLLER BRACKET. EACH BRACKET ATTACHED W/(5) #14x5/8" SHEET METAL SCREWS. ADJUSTABLE SLIDE ATTACHED TO TOP BRACKET WITH (2) 1/4"x1/2" BOLTS AND NUTS PER BRACKET.

SECTIONS ARE 1-3/4" THICK (MIN.) PANELS. EXTERIOR 27 GA. MIN. GALV. STEEL INTERIOR 27 GA. MIN. GALV. STEEL. THE STUCCO EMBOSSED STEEL TEXTURE IS PREPAINTED WITH A BAKED POLYESTER PAINT. MINOR RIBS ARE PLACED EVERY 4 INCHES ALONG THE WIDTH OF THE EXTERIOR PANELS.

TONGUE AND GROOVE JOINTS.

14 GA. GALV. ROLLER HINGE. EACH HINGE FASTENED TO END STILES W/(4) #14x5/8" SHEET METAL AND (2) 1/4"x3/4" SELF TAPPING SCREWS. (SEE VIEW "B")

ONE 4" T-STRUT PER SECTION. (SEE VIEW "D") EACH T-STRUT ATTACHED AT EACH HINGE LOCATION WITH (2) 1/4"x3/4" SELF TAPPING SCREWS.

27 GA. (.016" MIN.) EXTERIOR STEEL SKIN WITH G-40 MIN. GALV., BAKED-ON POLYESTER PAINTED TOP COAT APPLIED TO BOTH SIDES OF STEEL SKIN.

12 GA. GALV. STEEL BOTTOM BRACKET. ATTACHED WITH (4) #14x5/8" SHEET METAL SCREWS.

ALUMINUM EXTRUSION & VINYL WEATHERSTRIP.

FASTENER ATTACHMENT TO SUPPORTING STRUCTURE SCHEDULES				MANUFACTURING PRODUCT CODE C-DSIU-1D477	
BUILDING TYPE	FASTENER TYPE	MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS*	STEEL WASHERS REQUIRED?	PART NO.: N/A	
HOLLOW BLOCK WALL	1/4" x 1-1/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	5-1/2"	1" O.D.	WINDLOAD RATING W6 DP37T	
GROUT FILLED BLOCK WALL	1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	9-1/4"	1" O.D.		
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR	8"	1" O.D.	DESCRIPTION: 1-3/4" INTELLICORE DOORS UP TO 16'2"W (SEE TABLE)	
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	6-3/4"	1" O.D.		
2000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	17"	INCLUDED	DRAWN BY: SH	DATE: 1/10/13
4000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	24"	INCLUDED	CHECKED BY: SH	DATE: 1/10/13
WOOD FRAME (SYP 0.55 SG)	1/2" x 3" LAG SCREW (ASTM A307, GRADE A) 1-5/8" EMBED INTO STRUCTURE	18-1/4"	1" O.D.	DWG. NO.: 104801 - A/B	VER: IBC
14GA STEEL (0.060" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	7-3/4"	1" O.D.	FLORIDA PRODUCT APPROVAL 48387.13	
12GA STEEL (0.105" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	13-1/2"	1" O.D.		
1/8" STEEL	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	16"	1" O.D.		

DESIGN ENGINEER:
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* 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.

4

3

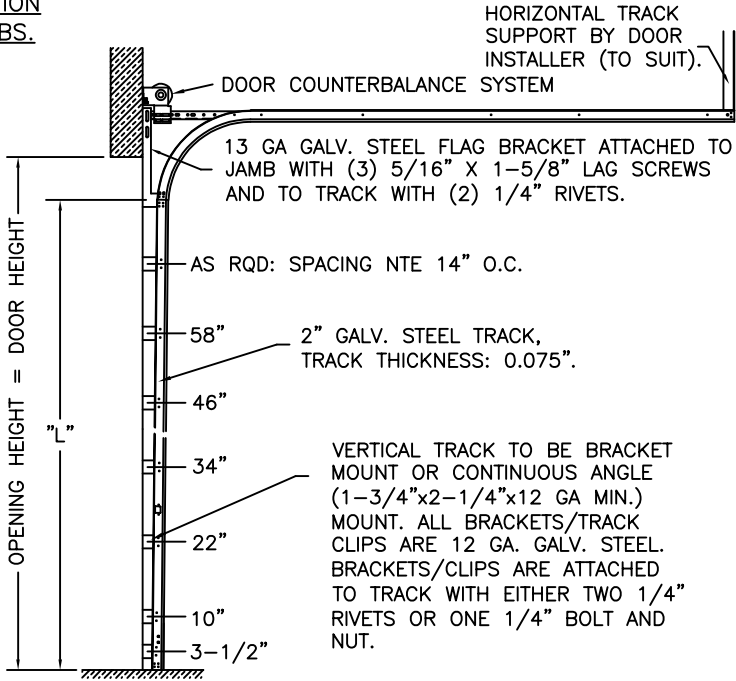
2

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	

2" TRACK CONFIGURATION
DOORS UP TO 800 LBS.

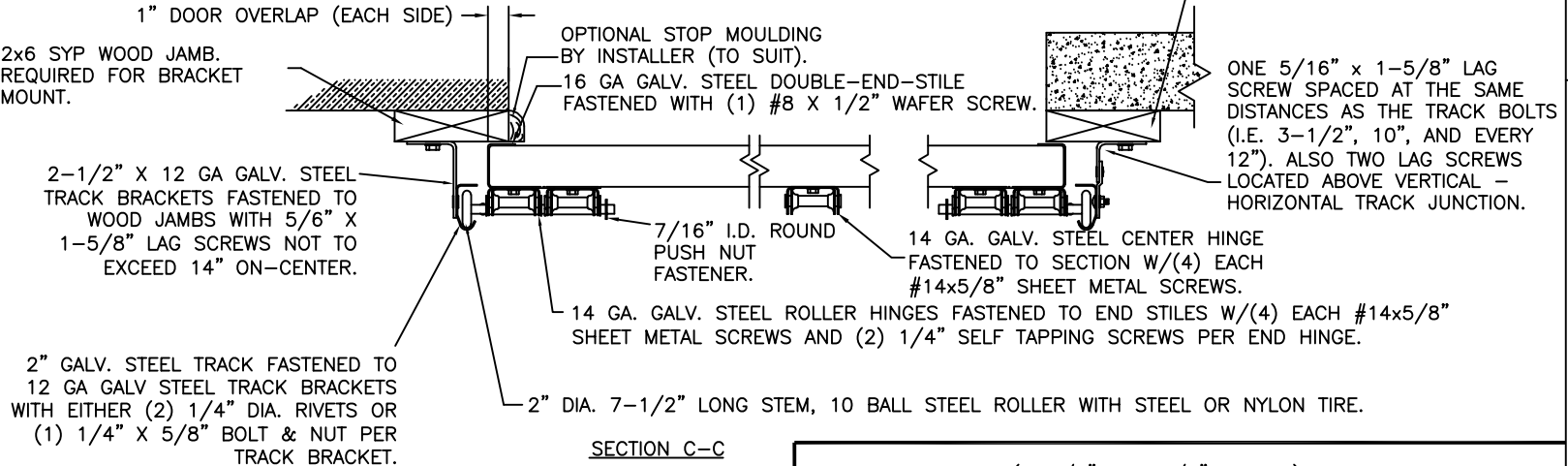
NOTE DOUBLE TRACK HEADROOM, HI-LIFT TRACK, FOLLOW-THE- ROOF TRACK, AND VERTICAL LIFT TRACK ARE AVAILABLE OPTIONS. TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING.



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"

JAMB CONFIGURATION
DOORS UP TO 800 LBS.

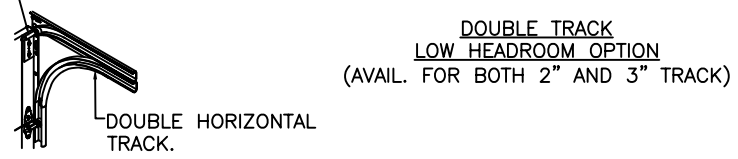
BRACKET MOUNT JAMB CONFIGURATION



SECTION C-C

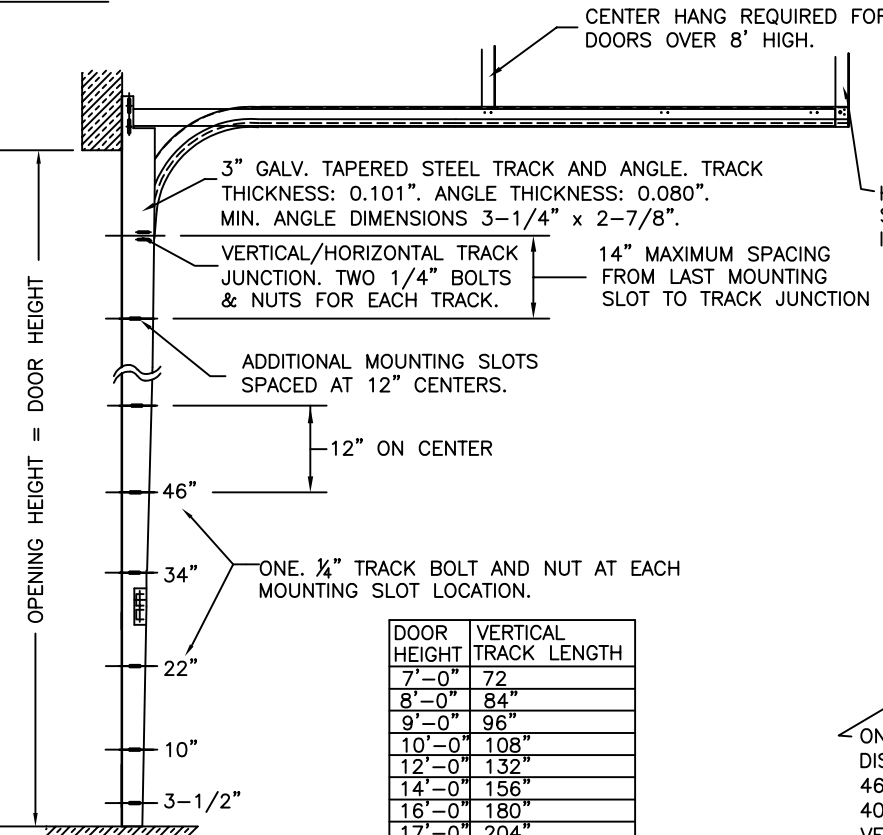
PREPARATION OF JAMBS BY OTHERS.

LHR BRACKET (2-1/2" x 5-3/4" x 12GA) ATTACHED WITH (2) 1/4" x 3/4" SELF TAPPING SCREWS. NOTE THAT LHR BRACKETS ARE ALSO USED WITH "DOUBLE END STILE" AS SHOWN IN ZONE B-3 SHEET 1.



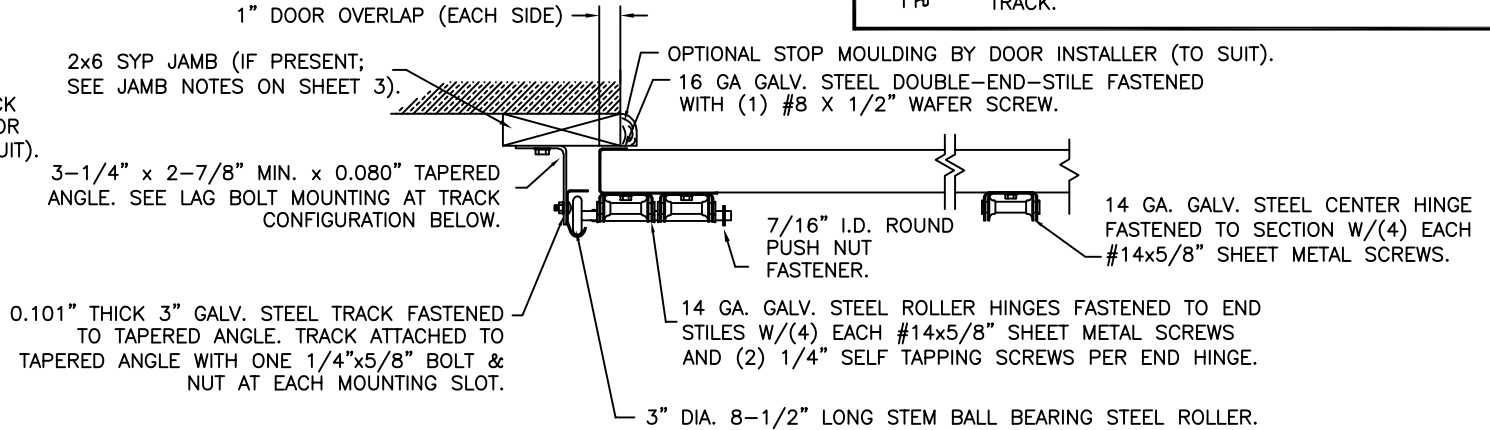
3" TRACK CONFIGURATION
DOORS 800 LBS AND OVER.

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.



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
DOORS 800 LBS AND OVER.



SECTION C-C
PREPARATION OF JAMBS BY OTHERS.

DESIGN LOADS: +37.0 P.S.F. & -42.0 P.S.F.
TEST LOADS: +55.5 P.S.F. & -63.0 P.S.F.

Unless Stated Otherwise TOLERANCES are
.0 = ±.031
.00 = ±.015
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Degrees = ±1/2°
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DESCRIPTION: 1-3/4" INTELICORE DOORS UP TO 16'2"W (SEE TABLE)			
DRAWN BY: SH	DATE: 1/10/13	SCALE: NTS	DWG. SIZE B
CHECKED BY: SH	DATE: 1/10/13	SHEET 4 OF 4	VER: IBC
DWG. NO.: 104801 - A/B			

DESIGN ENGINEER:
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