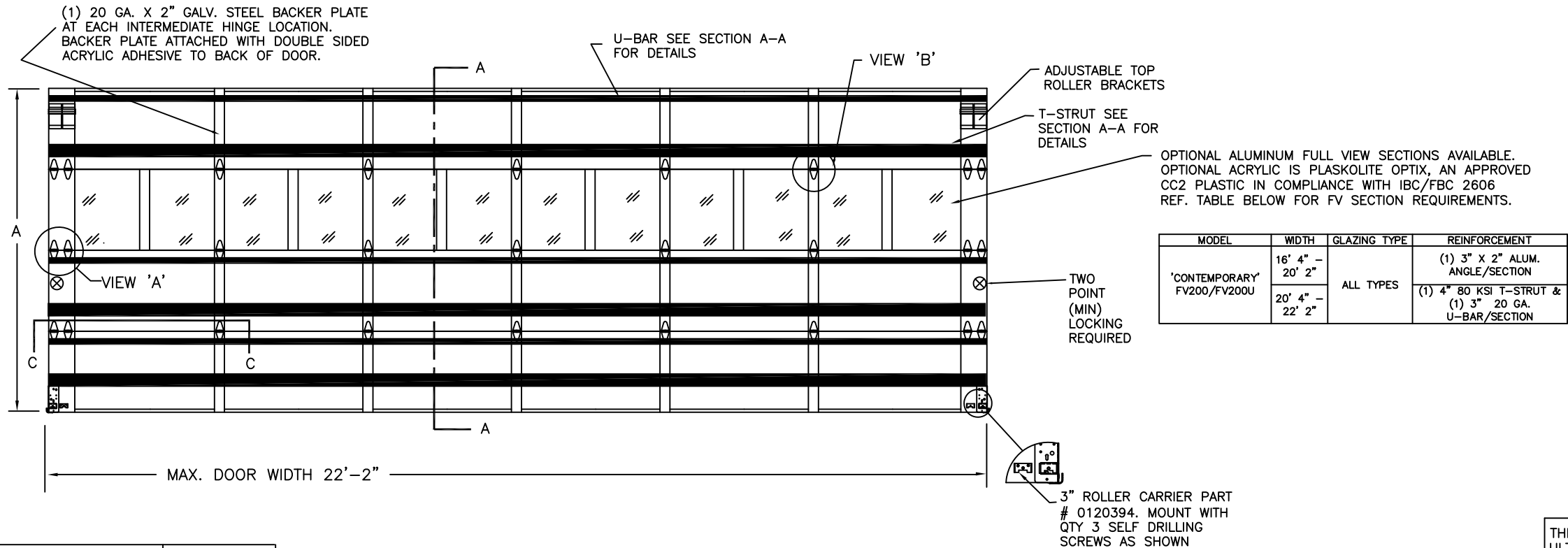


CLOPAY MODEL 3200: 24 GA. EXTERIOR STEEL SKIN
CLOPAY MODEL 3220: 20 GA. EXTERIOR STEEL SKIN
HOLMES MODEL 240/240G: 24 GA. EXTERIOR STEEL SKIN

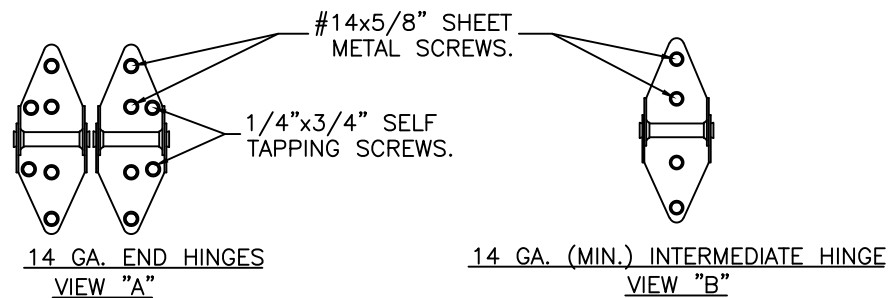
SHEET:
1 OF 4

REVISIONS

REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
00	-	7/21/16	-	SH	BASED ON 103320-R03.
01	-	7/6/17	-	-	SPECIFIED 1/4"x1" SCREWS FOR FULL VISION T-STRUTS
02	-	6/7/22	ER1409	TES	UPDATED FV SECTION INFORMATION.

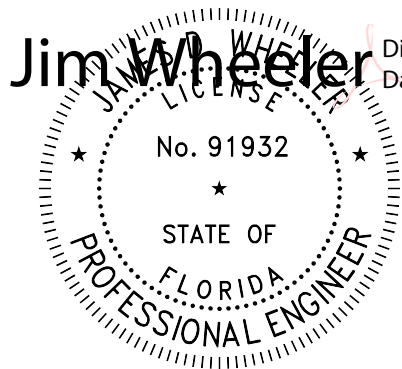


DOOR HEIGHT 'A'	NUMBER OF SECTIONS
UP TO 8'-0"	4
8'-3" THRU 10'-0"	5
10'-3" THRU 12'-0"	6
12'-3" THRU 14'-0"	7
14'-3" THRU 16'-0"	8
16'-3" THRU 18'-0"	9

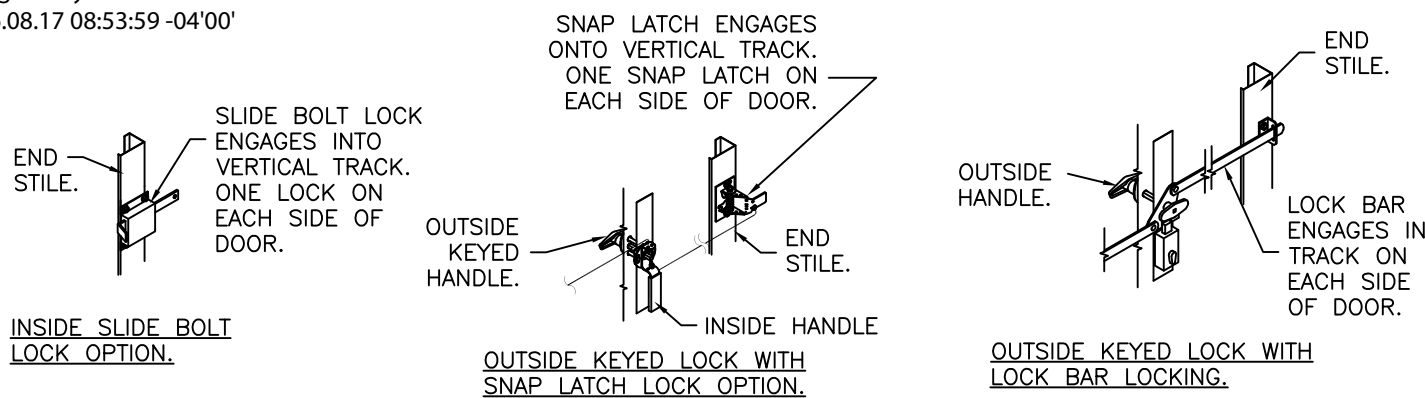


THIS DOOR MEETS OR EXCEEDS THE DESIGN LOADS FOR THE ULTIMATE WIND SPEEDS LISTED BELOW ACCORDING TO THE FLORIDA BUILDING CODE OR THE INTERNATIONAL BUILDING CODE (BASED ON ASCE7-10) FOR THE FOLLOWING CONDITIONS: 1) ENCLOSED BUILDING, 2) DOOR HAS 2' OF WIDTH IN BUILDING'S END ZONE, 3) ANY ROOF SLOPE, AND 4) TESTING IN ACCORDANCE WITH ANSI/DASMA 108. SITE-SPECIFIC CALCULATIONS BY A QUALIFIED DESIGN PROFESSIONAL MAY DIFFER.

ULTIMATE WIND SPEED (MPH)	140	145	150	160	175
EXPOSURE CATEGORY	B, C, D	B, C, D	B, C	B, C	B
MEAN ROOF HEIGHT	25'	15'	25'	15'	30'



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



DESIGN LOADS: +30.0 P.S.F. & -30.0 P.S.F.
TEST LOADS: +45.0 P.S.F. & -45.0 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
Building Products Company

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

MANUFACTURING PRODUCT CODE
C-DSIE-1F447

PART NO.: N/A

WINDLOAD RATING
W5 DP30

DESCRIPTION: MODEL 240/3200/3220 WINDLOAD 22'-2"			
DRAWN BY: RH	DATE: 7/21/16	SCALE: NTS	DWG. B
CHECKED BY: SH	DATE: -----	SHEET 1 OF 4	SIZE
DWG. NO.: 105054		VER: IBC	

FLORIDA PRODUCT APPROVAL 48340.7

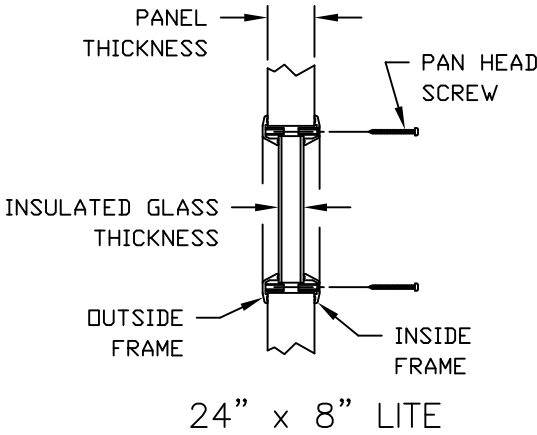
CLOPAY MODEL 3200: 24 GA. EXTERIOR STEEL SKIN
CLOPAY MODEL 3220: 20 GA. EXTERIOR STEEL SKIN
HOLMES MODEL 240/240G: 24 GA. EXTERIOR STEEL SKIN

SHEET:		REVISIONS				
2 OF 4		REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:
		01	-	-	-	-
		DESCRIPTION				
		SEE REVISION HISTORY ON SHEET ONE.				

THE OPTIONAL GLAZING SHOWN ON THIS DRAWING MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (FBC / IBC CHAPTER 16).

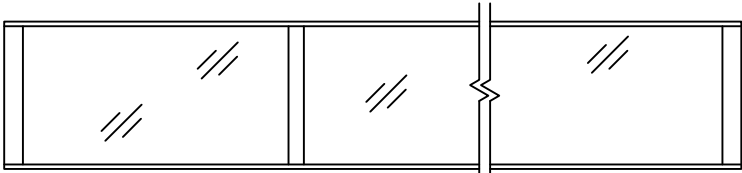
STANDARD ASSEMBLY CONSTRUCTION:
OPTIONAL LITES WITH DSB OR TEMPERED INSULATED GLAZING AVAILABLE. OPTIONAL FULL VISION SECTIONS WITH DSB OR BETTER GLAZING AVAILABLE.
THE ENTIRE DOOR ASSEMBLY INSTALLED IN COMPLIANCE WITH THIS SECTION MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (REF. CHAPTER 16 FBC/IBC).

SECTION B-B
(NON-IMPACT-RESISTANT
GLAZING OPTION)



OPTIONAL ALUMINUM FULL VIEW SECTIONS AVAILABLE (1/8" DSB, 1/8" ACRYLIC OR BETTER). OPTIONAL ACRYLIC IS PLASKOLITE OPTIX, AN APPROVED CC2 PLASTIC IN COMPLIANCE WITH IBC/FBC 2606. REF. TABLE BELOW FOR FV SECTION REINFORCEMENT REQUIREMENTS

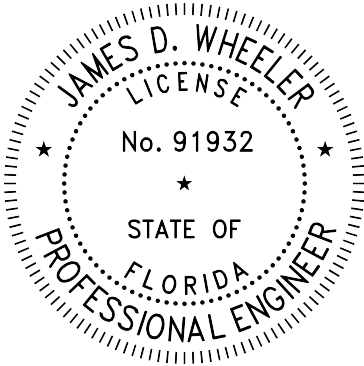
NON-IMPACT-RESISTANT
FULL VISION SECTION OPTION



OPTIONAL FULL VIEW SECTIONS AVAILABLE. OPTIONAL ACRYLIC IS PLASKOLITE OPTIX, AN APPROVED CC2 PLASTIC IN COMPLIANCE WITH IBC/FBC 2606. REF. TABLE BELOW FOR FV SECTION REINFORCEMENT REQUIREMENTS.

MODEL	WIDTH	GLAZING TYPE	REINFORCEMENT
'CONTEMPORARY' FV200/FV200U	16' 4" - 20' 2"	ALL TYPES	(1) 3" X 2" ALUM. ANGLE/SECTION
	20' 4" - 22' 2"		(1) 4" 80 KSI T-STRUT & (1) 3" 20 GA. U-BAR/SECTION

STANDARD ASSEMBLY DETAILS



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

DESIGN LOADS: +30.0 P.S.F. & -30.0 P.S.F.
TEST LOADS: +45.0 P.S.F. & -45.0 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
Building Products Company

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

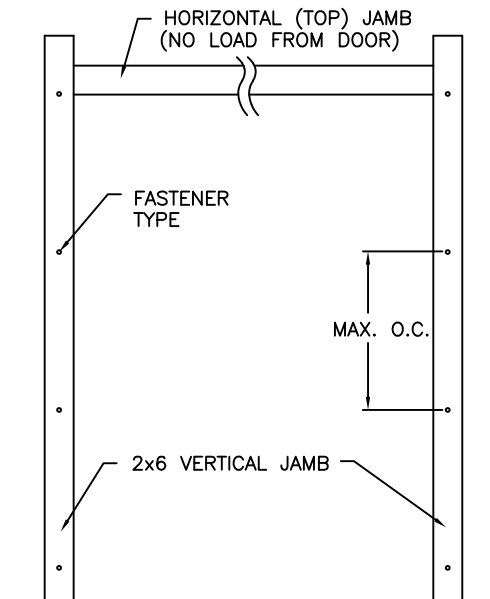
DESCRIPTION: MODEL 240/3200/3220 WINDLOAD 22'-2"			
DRAWN BY: RH	DATE: 7/21/16	SCALE: NTS	DWG. B
CHECKED BY: SH	DATE: -----	SHEET 2 OF 4	SIZE
DWG. NO.: 105054		VER: IBC	

CLOPAY MODEL 3200: 24 GA. EXTERIOR STEEL SKIN
CLOPAY MODEL 3220: 20 GA. EXTERIOR STEEL SKIN
HOLMES MODEL 240/240G: 24 GA. EXTERIOR STEEL SKIN

SHEET:
3 OF 4

REVISIONS

REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
01	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.



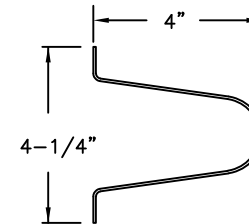
JAMB TO SUPPORTING STRUCTURE ATTACHMENT

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 +330 LB & -330 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.

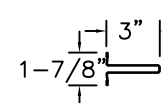
NOTE: 2x6 WOOD JAMBS ARE NOT REQUIRED WITH CONTINUOUS ANGLE MOUNT TRACK. HOWEVER, IF DESIRED ON STEEL JAMBS OR CONCRETE OR BLOCK WALLS, APPROVED FASTENERS AS DETAILED BELOW SHOULD BE INCREASED IN LENGTH BY 1-1/2" AND INSTALLED DIRECTLY THROUGH THE ANGLE AND 2x6 WOOD JAMBS INTO THE STEEL JAMBS OR CONCRETE 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.

1.95" THICK, 1# DENSITY EXPANDED POLYSTYRENE FOAM INSULATION LAMINATED TO BOTH EXTERIOR AND INTERIOR SKINS.



VIEW "D"

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



VIEW "E"

3" TALL 50 KSI U-BAR
20 GA. GALV. STEEL.

TONGUE AND GROOVE JOINTS

24 GA. MIN. EXTERIOR STEEL WITH GALV. & POLYESTER FINISH

27 GA. MIN. INTERIOR STEEL SKIN WITH GALV. & POLYESTER FINISH

SILICONE FILLED CHANNEL SEPARATES FRONT AND BACK SKIN OF DOOR

2" THICK

3" TALL x 20 GA. GALV. STEEL U-BAR. ATTACHED ONE AT THE TOP OF EACH SECTION EACH U-BAR ATTACHED WITH (2) 1/4"x3/4" SELF TAPPING SCREWS AT EACH BACKER PLATE & 4 SCREWS ON EACH END STILE

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

14 GA. GALV. STEEL ROLLER HINGE. (SEE VIEW A)

ONE 4" T-STRUT PER SECTION. SEE VIEW "D". EACH T-STRUT ATTACHED AT EACH STILE LOCATION WITH (2) 1/4"x3/4" SELF TAPPING SCREWS [(4) AT EACH DOUBLE END STILE]. (T-STRUTS ON FULL VISION SECTIONS TO BE ATTACHED WITH 1/4"x1" SELF TAPPING SCREWS.)

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

ALUMINUM EXTRUSION & VINYL WEATHERSTRIP.
SECTION A-A (SIDE VIEW)

DESIGN LOADS: +30.0 P.S.F. & -30.0 P.S.F.
TEST LOADS: +45.0 P.S.F. & -45.0 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
Building Products Company

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

MANUFACTURING PRODUCT CODE
C-DSIE-1F447

PART NO.: N/A

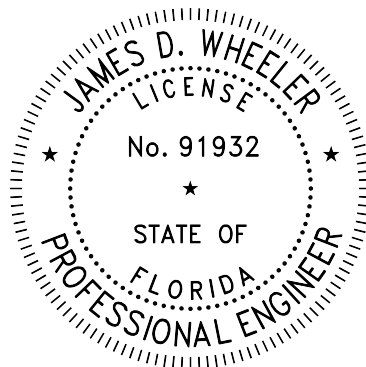
WINDLOAD RATING
W5 DP30

DESCRIPTION: MODEL 240/3200/3220 WINDLOAD 22'-2"			
DRAWN BY: RH	DATE: 7/21/16	SCALE: NTS	DWG. B
CHECKED BY: SH	DATE: -----	SHEET 3 OF 4	SIZE
DWG. NO.: 105054		VER: IBC	

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	5"	1" O.D.
GROUT FILLED BLOCK WALL	1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	8-1/4"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR	7-1/4"	1" O.D.
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	15"	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	16-1/2"	1" O.D.
14GA STEEL (0.060" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	6-3/4"	1" O.D.
12GA STEEL (0.105" MIN.)	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	12"	1" O.D.
1/8" STEEL	1/4"-14 x 1" ITW BUILDEX TEKS SELF-DRILLING FASTENER	14-1/2"	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.



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

FLORIDA PRODUCT APPROVAL 48340.7

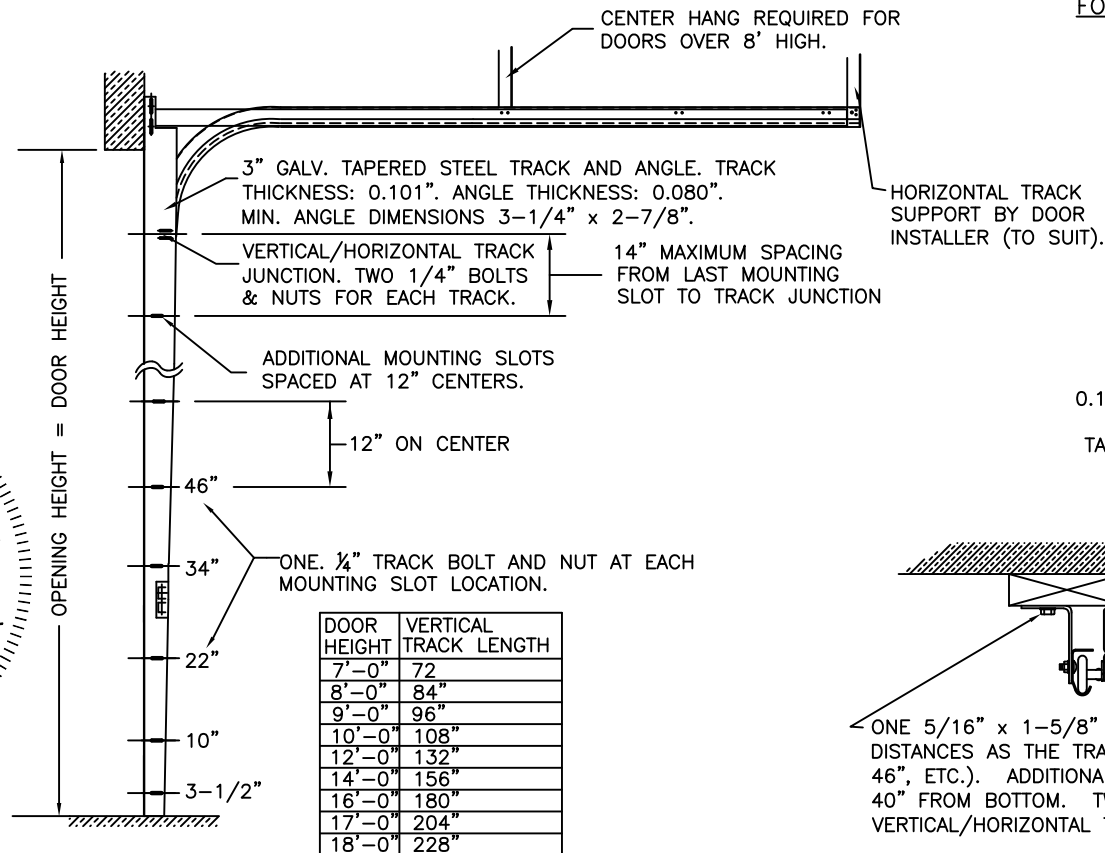
CLOPAY MODEL 3200: 24 GA. EXTERIOR STEEL SKIN
CLOPAY MODEL 3220: 20 GA. EXTERIOR STEEL SKIN
HOLMES MODEL 240/240G: 24 GA. EXTERIOR STEEL SKIN

SHEET:
4 OF 4

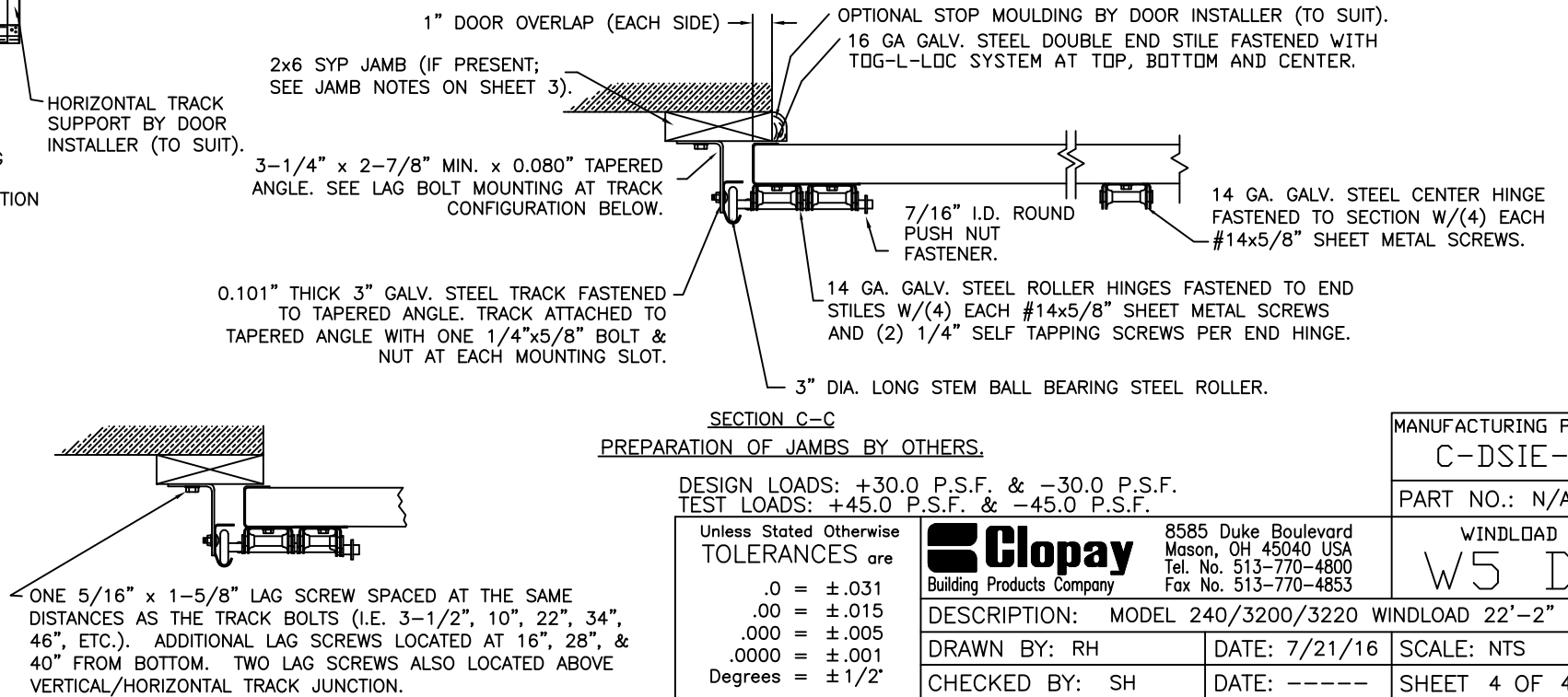
REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
01	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.

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.



JAMB CONFIGURATION FOR 3" TRACK.



LHR BRACKET (2-1/2" x 5-3/4" x 12GA)
ATTACHED WITH (2) 1/4" x 3/4" SELF TAPPING SCREWS.

DOUBLE TRACK
LOW HEADROOM OPTION

DOUBLE HORIZONTAL TRACK.

SECTION C-C
PREPARATION OF JAMBS BY OTHERS.

DESIGN LOADS: +30.0 P.S.F. & -30.0 P.S.F.
TEST LOADS: +45.0 P.S.F. & -45.0 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.

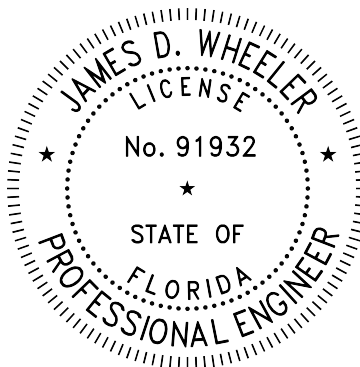
Clopay
Building Products Company

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

MANUFACTURING PRODUCT CODE
C-DSIE-1F447
PART NO.: N/A

WINDLOAD RATING
W5 DP30

DESCRIPTION: MODEL 240/3200/3220 WINDLOAD 22'-2"
DRAWN BY: RH DATE: 7/21/16 SCALE: NTS DWG. B
CHECKED BY: SH DATE: ----- SHEET 4 OF 4
DWG. NO.: 105054 VER: IBC



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