

MODELS		INSULATED
STANDARD		
CLOPAY	G4S, GS4, G4L, GL4, GD4S, GD4L, GR4S, GR4L	G4SV, GS4V, G4LV, GL4V, GD4SV, GD4LV, GR4SV, GR4LV
IDEAL	E4S, E4L, ED4S, ED4L	E4SV, E4LV, ED4SV, ED4LV
HOLMES	SS4, SL4, AR4S, AR4L	SS4V, SL4V, AR4SV, AR4LV

EQUIVALENT SECTION CONSTRUCTION: FOR ANY OF THE MODELS LISTED ON THIS DRAWING, THE FOLLOWING W-LEVEL DOORS USE EQUIVALENT SECTIONS (UP TO THE MAXIMUM WIDTH ALLOWED ON THIS DRAWING).
W1, W4, W5.
 ANY OF THESE W-LEVELS MAY BE SHOWN ON THE OPTIONAL SHIPPING LABEL ON THE END STILE.

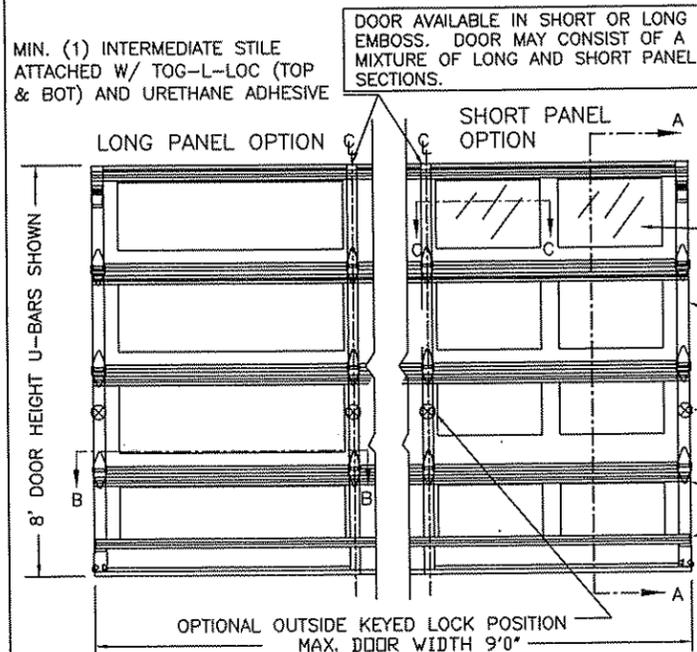
THIS DOOR MEETS OR EXCEEDS THE DESIGN LOADS FOR THE WIND SPEEDS LISTED BELOW ACCORDING TO THE FLORIDA BLDG. CODE OR IBC (ASCE7) FOR THE FOLLOWING CONDITIONS: 1) ENCLOSED BUILDING, 2) DOOR HAS 2' OF WIDTH IN BUILDING'S END ZONE, 3) IMPORTANCE FACTOR OF 1.0, 4) ANY ROOF SLOPE, AND 5) 50% SAFETY FACTOR.

DOOR HEIGHT	# OF SECTIONS	# OF STRUTS
6'0"	3	4
6'3" TO 7'0"	4	4
7'3" TO 8'0"	4	5
8'3" TO 8'9"	5	5
9'0" TO 10'0"	5	6
10'3" TO 10'6"	6	6
10'9" TO 12'0"	6	7
12'3"	7	7
12'6" TO 14'0"	7	8
14'3" TO 16'0"	8	9

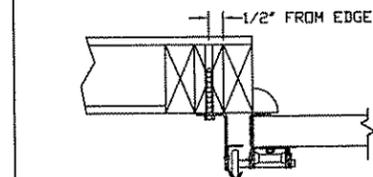
MAX SECTION HEIGHT: 24'

WIND SPEED (MPH)	≤ 100	110	110	120
EXPOSURE LEVEL	B or C	B	C	B
MEAN ROOF HEIGHT	30'	30'	20'	30'

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 (REF. CHAPTER 16 FBC/IBC)



IN THE CASE OF GYPSUM WALLBOARD LOCATED AT OR NEAR THE DOOR OPENING LOCATION THERE ARE TWO ACCEPTABLE ALTERNATIVES:
 1) THE WALLBOARD CAN BE CUT AWAY FROM THE DOOR OPENING AND 2X6 SOUTHERN YELLOW PINE WOOD JAMBS MOUNTED DIRECTLY TO THE SUPPORTING STRUCTURE TO CREATE THE MOUNTING SURFACE. ALTERNATIVELY, THE BRACKETS MAY BE ATTACHED DIRECTLY TO THE SUPPORTING STRUCTURE. SEE DETAIL BELOW. THE CENTER OF SCREW HOLE MUST BE AT LEAST 1/2" FROM BOTH EDGES FOR A 5/16" LAG SCREW.
 2) IF THE WALLBOARD IS NOT CUT AWAY TO EXPOSE THE UNDERLYING STRUCTURE (WOOD FRAMING MEMBERS), A 2X6 SOUTHERN YELLOW PINE WOOD BUCK OVER SHALL BE INSTALLED THE WALLBOARD FRAMING THE OPENING USING THE JAMB ATTACHMENT FASTENERS LISTED BELOW. HOWEVER, THE JAMB ATTACHMENT FASTENERS MUST BE OF A SUFFICIENT INCREASED LENGTH TO ACCOUNT FOR THE THICKNESS OF THE WALLBOARD TO ENSURE PROPER FASTENER EMBEDMENT INTO THE STRUCTURAL FRAMING MEMBERS OF THE SUPPORTING STRUCTURE.



NOTE: THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.

VERTICAL JAMB ATTACHMENT (WOOD FRAME BUILDINGS):

3/8"x3" LAG SCREWS ON 24" CENTERS. 1-1/8" O.D. WASHER REQUIRED. LAG SCREWS MAY BE COUNTERSUNK (BUT NOT REQUIRED) TO PROVIDE A FLUSH MOUNTING SURFACE. HORIZONTAL JAMBS DO NOT TRANSFER LOAD.

VERTICAL JAMB ATTACHMENT (C-90 BLOCK OR 2,000 PSI MIN. CONCRETE COLUMN):
 3/8"x3" SLEEVE ANCHOR BOLTS ON 24" CENTERS (2,000 PSI MIN. CONCRETE). WASHERS INCLUDED WITH SLEEVE ANCHORS.

OR
 1/4"x3" TAPCON SCREWS ON 24" CENTERS (2,000 PSI MIN. CONCRETE) OR 14" CENTERS (C-90 BLOCK), 1" O.D. WASHERS REQUIRED WITH TAPCONS. ANCHORS MAY BE COUNTERSUNK (BUT NOT REQUIRED) TO PROVIDE A FLUSH MOUNTING SURFACE. HORIZONTAL JAMBS DO NOT TRANSFER LOAD.

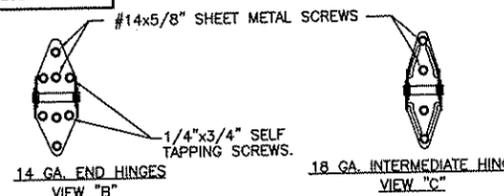
OTHER JAMB CONFIGURATIONS: REFER TO DASMA TDS-161. A LICENSED DESIGN PROFESSIONAL MAY ALSO BE EMPLOYED TO APPROVE ALTERNATE FASTENERS AND/OR JAMB CONFIGURATIONS.

ORIGINAL DRAWINGS ARE SIGNED IN BLUE INK WITH A RAISED SEAL (ENCL055).

Mark Westerfield
 6/6/13
 DESIGN ENGINEER: MARK WESTERFIELD, P.E.
 FLORIDA P.E. #48495,
 NC P.E. #23832,
 TEXAS P.E. #91513

1# DENSITY POLYSTYRENE FOAM INSULATION 1-5/16" THICK WITH VINYL HAIRCELL BACKER (INSULATED MODELS ONLY)

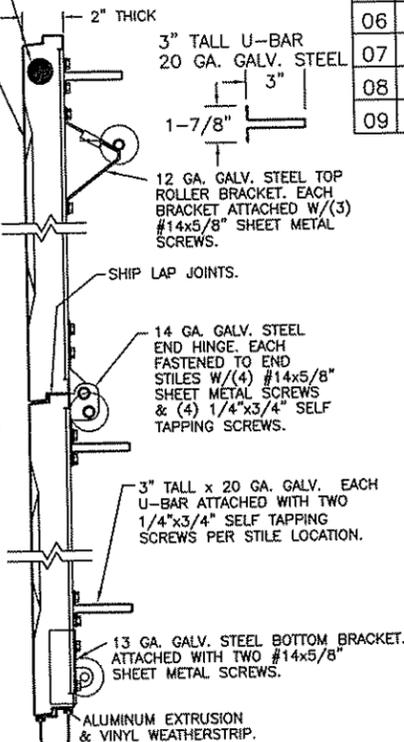
24 GA. MIN. STEEL SKIN COATED WITH GALV., BAKED-ON PRIMER, AND A BAKED-ON POLYESTER TOP COAT APPLIED TO BOTH SIDES OF STEEL SKIN.



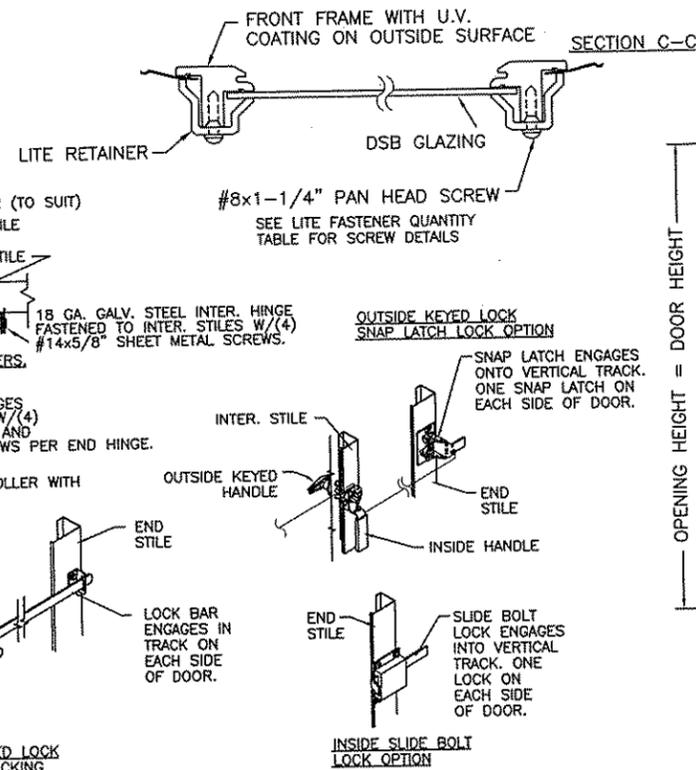
LITE FASTENER QUANTITY TABLE

WINDOW LITE OPTION	# OF SCREWS
SHORT RECT	12
DOUBLE ARCH	14
SINGLE ARCH	15
LONG RECT	16

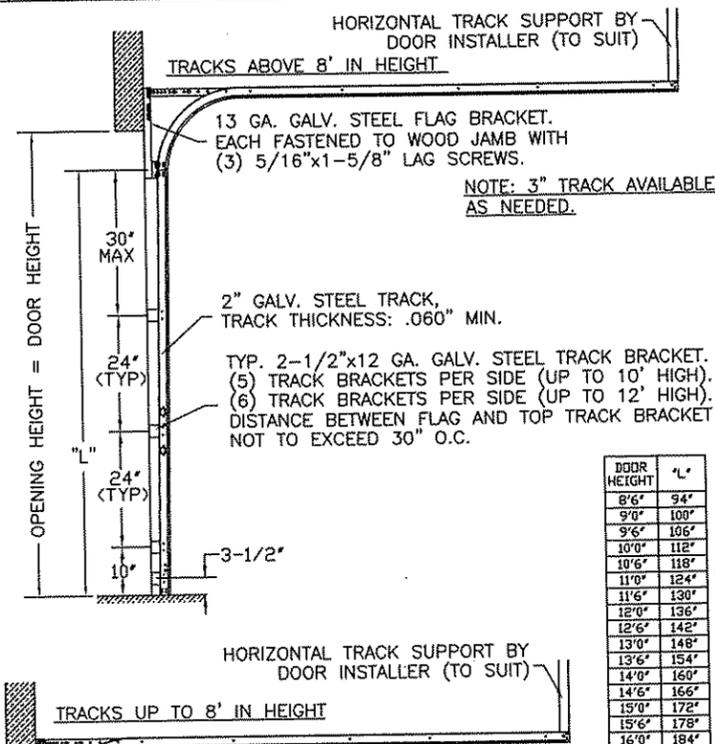
SECTION A-A (SIDE VIEW)



SECTION C-C



REV	DATE	DESCRIPTION
03	02/24/06	UPDATED JAMB BRACKET NOTE
04	04/30/07	ADDED NEW MODEL NUMBERS
05	07/26/07	ADDED UPDATED GLAZING OPTION
06	12/05/07	ADDED LONG WINDOW LITE OPTION
07	01/31/12	REVISED WIND SPEED TABLE FOR ASCE7-10.
08	08/16/12	REVISED FOR TDI
09	06/05/13	REMOVED ACRYLIC GLAZING. REVISED MAX GLAZE SIZE.



DOOR HEIGHT	"L"
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"

DOOR HEIGHT	"L"
6'-6"	70"
7'-0"	76"
7'-6"	82"
8'-0"	88"

DESIGN LOADS: +25.0 P.S.F. & -32.0 P.S.F.
 TEST LOADS: +37.5 P.S.F. & -48.0 P.S.F.

Clopay
 Building Products
 Company

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 8585 DUKE BLVD.
 MASON, OH 45040
 (513) 770-4800

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MANUFACTURING PRODUCT CODE
 MPC: PAN-2F441
 DATE: 5/31/05
 DRAWN BY: RJK
 CHECKED BY:

WINDLOAD RATING
 W4
 MAX. DOOR SIZE:
 9'W x 16'H
 DESCRIPTION: G4S, G4SV, G4L, G4LV;
 9'W +25/-32
 DRAWING NUMBER:
 B 103486