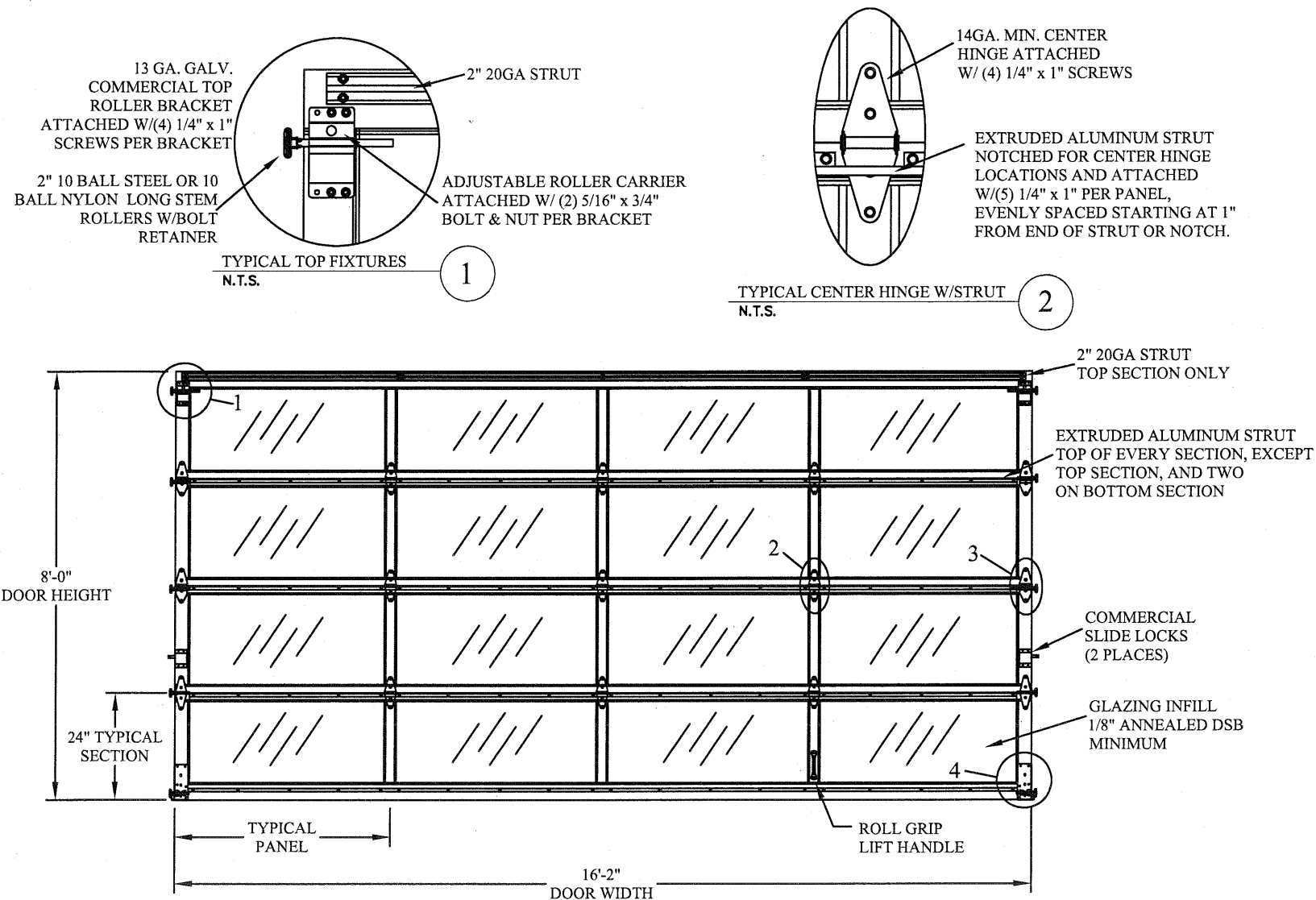
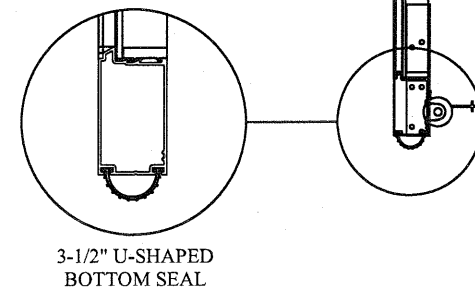
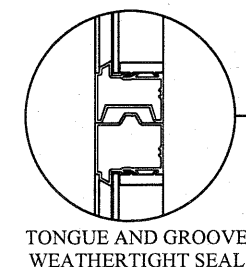
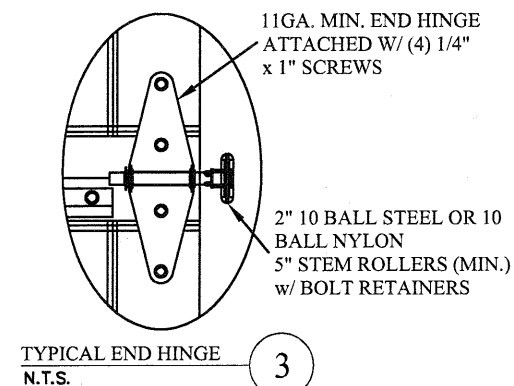
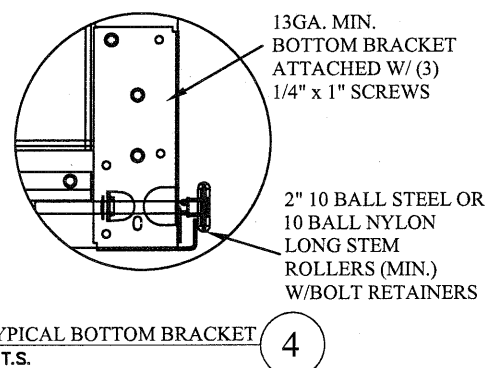
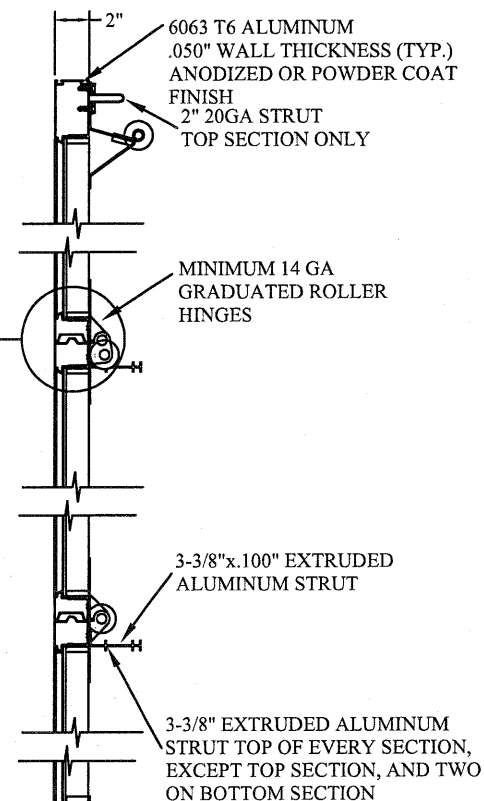




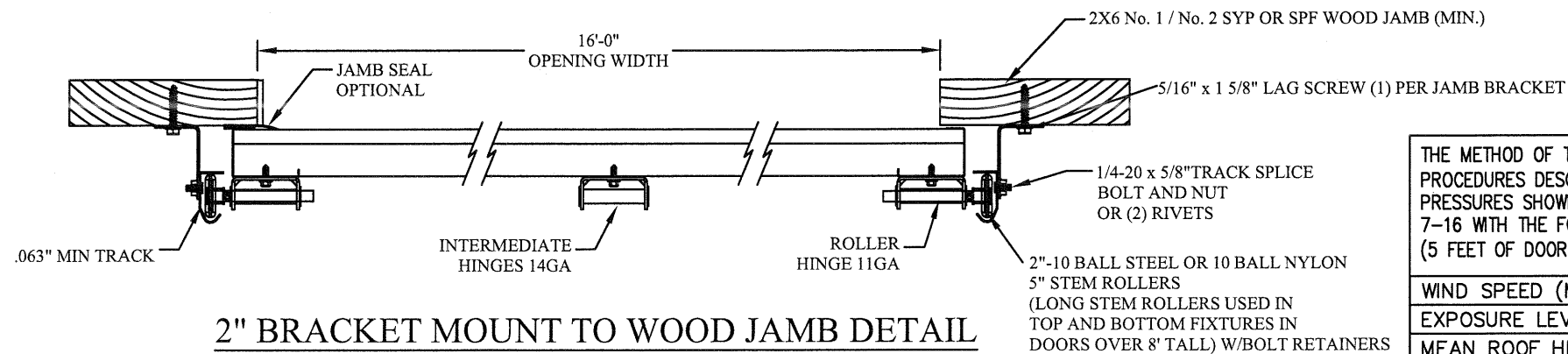
DOOR INTERIOR ELEVATION



ALUMINUM SECTION PROFILE



TYPICAL BOTTOM BRACKET N.T.S.



2" BRACKET MOUNT TO WOOD JAMB DETAIL

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN ASTM E330, AND ANSI/DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF SLOPE 10° OR LESS):

WIND SPEED (MPH)	168	152	145	138	133
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16'2" x 24'

DESIGN LOADS
+23.5 PSF
-26.7 PSF

TEST LOADS
+35.25 PSF
-40.0 PSF

Thomas L. Shelmerdine, P.E. (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

FL

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr

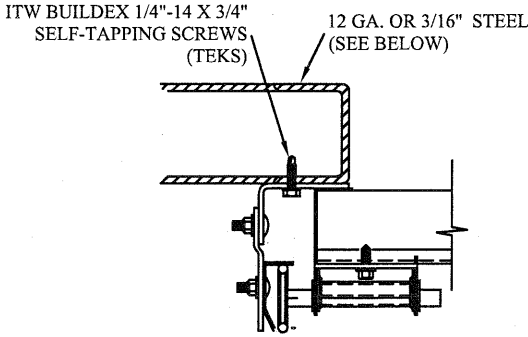
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**MODEL 3550
VISTA**

SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	BHG	6/17/10	IBC-3616-130-63
	CHECKED BY	DRC	
		DATE	

ENGINEER: THOMAS L. SHELMERDINE P.E. L.I.C. No. 0048579 SHEET 1 OF 3

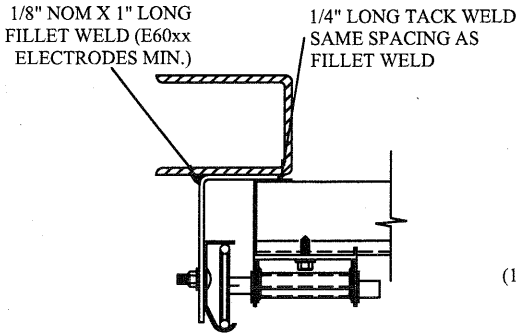
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



CLIP STYLE REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE
MOUNT AVAILABLE

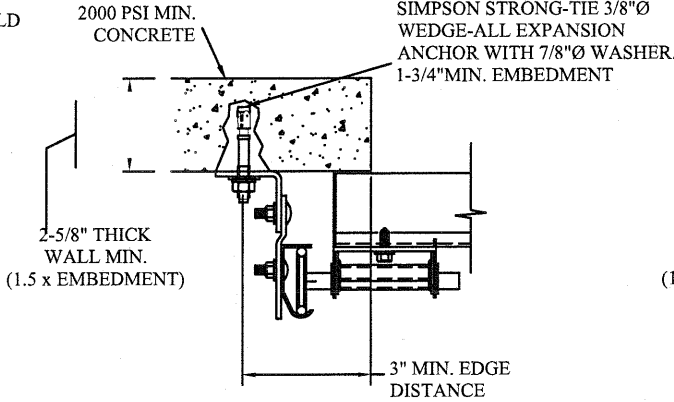
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 12" O.C.
REFER TO NOTES: 1, 2 AND 5

3/16" STEEL FRAMING
569 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS
AND 24" O.C.
REFER TO NOTES: 1, 2 AND 5



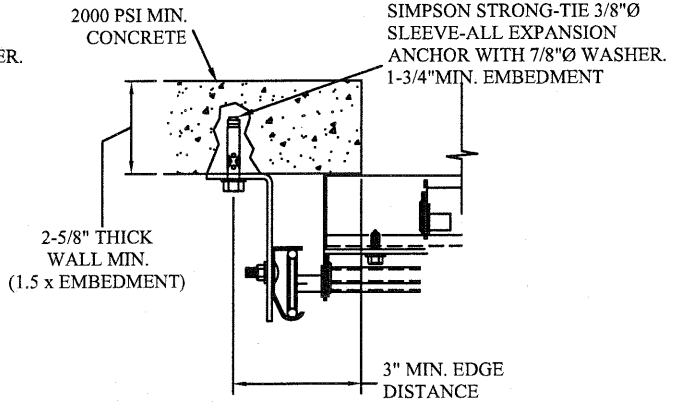
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED
ANGLE MOUNT AVAILABLE

STEEL FRAMING 12GA OR BETTER
1590 LBS./IN. ALLOWABLE LOAD - 6"
FROM ENDS AND 24" O.C.
REFER TO NOTES: 1, 2, 5, 6, 7, 8 AND 9



CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, REVERSE AND TAPERED ANGLE MOUNT
AVAILABLE

2000 PSI CONCRETE OR GREATER
351 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"
FROM ENDS AND 18" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5



CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE
MOUNT AVAILABLE

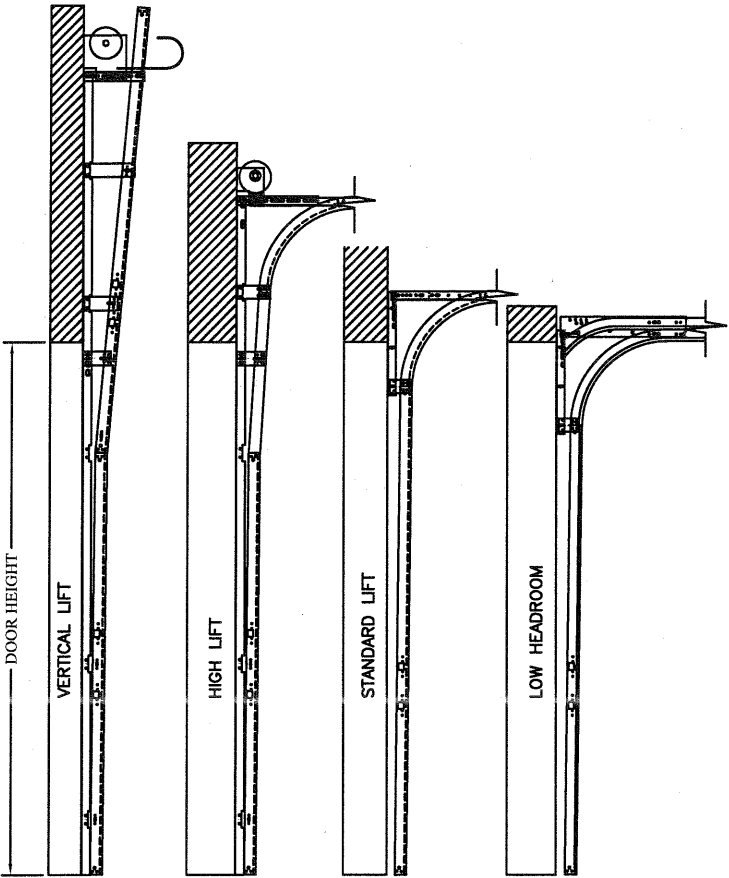
2000 PSI CONCRETE OR GREATER
336 LBS./EXPANSION ANCHOR ALLOWABLE LOAD - 6"
FROM ENDS AND 18" O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

NOTES:

1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
2. 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.
3. MIN. EDGE DISTANCE OF 3" REQUIRED.
4. USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
6. MOST GARAGE DOOR TRACK IS GALVANIZED STEEL. USE ALL NECESSARY PRECAUTIONS WHEN WELDING GALVANIZED STEEL.
7. ALL WELDS SHOULD BE PERFORMED BY A CERTIFIED WELDER OR INSPECTED BY A CERTIFIED WELDING INSPECTOR TO VERIFY THE INTEGRITY OF THE WELD.
8. FILLET WELDS TO HAVE A STRAIGHT OR CONVEX FACE SURFACE.
9. TACK WELD TOE OF ANGLE AT SAME SPACING TO PREVENT ROTATION OF TRACK ANGLE.

TABLE 1

DOOR																								SPLICE
HEIGHT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V		S
7'	10"	22"	34"	46"	58"																			76"
8'	10"	22"	34"	46"	58"	70"																		88"
9'	10"	22"	34"	46"	58"	70"	82"																	100"
10'	10"	22"	34"	46"	58"	70"	82"	94"																112"
11'	10"	22"	34"	46"	58"	70"	82"	94"	106"															124"
12'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"														136"
13'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"													148"
14'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"												160"
15'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"											172"
16'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"										184"
17'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"									196"
18'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"								208"
19'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"							220"
20'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"						232"
21'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"					244"
22'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"				256"
23'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"			268"
24'	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"		280"



2" (.063 MIN.) OR 3" (12 GA. MIN.) VERTICAL TRACK

AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16'2" x 24'

DESIGN LOADS
+23.5 PSF
-26.7 PSF

TEST LOADS
+35.25 PSF
-40.0 PSF

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

THOMAS L. SHELMERDINE

LICENSE

No. 48579

STATE OF FLORIDA

PROFESSIONAL ENGINEER

FL

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

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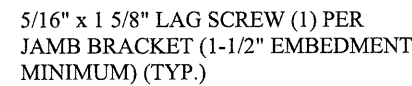
MODEL 3550
VISTA

SIZE	DRAWN BY BHG	DATE 6/17/10	DRAWING NUMBER
B	CHECKED BY DRC	DATE 6/17/10	IBC-3616-130-63

ENGINEER: THOMAS L. SHELMERDINE P.E. LIC. No. 0048579

SHEET 2 OF 3

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF:
+189.9 LBS/FT & -215.8 LBS/FT.
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
5. GLAZING MEETS ASTM E1300-04



2x6 WOOD JAMB SYP
(NO.2) OR BETTER (TYP.)

Section Width (ft)		Center Stile Locations (From Left Edge)			Max Design Loads Allowed	
		1st (in)	2nd (in)	3rd (in)	Positive (PSF)	Negative (PSF)
9'	4"	36"	76"	-	29.8	33.9
9'	6"	37"	77"	-	29.4	33.4
9'	8"	38"	78"	-	29.0	33.0
9'	10"	39"	79"	-	28.7	32.6
10'	0"	40"	80"	-	28.3	32.2
10'	2"	41"	81"	-	28.0	31.8
10'	4"	42"	82"	-	27.6	31.4
10'	6"	43"	83"	-	27.3	31.0
10'	8"	44"	84"	-	27.0	30.6
10'	10"	45"	85"	-	26.6	30.3
11'	0"	46"	86"	-	26.3	29.9
11'	2"	47"	87"	-	26.0	29.6
11'	4"	48"	88"	-	25.7	29.2
11'	6"	49"	89"	-	25.4	28.9
11'	8"	50"	90"	-	25.2	28.6
11'	10"	51"	91"	-	24.9	28.3
12'	0"	48"	96"	-	23.6	26.8
12'	2"	49"	97"	-	23.3	26.5
12'	4"	50"	98"		23.1	26.2
12'	6"	51"	99"		22.9	26.0
12'	8"	52"	100"		22.6	25.7
12'	10"	53"	101"		22.4	25.5
13'	0"	36"	78"	120"	27.0	33.0
13'	2"	37"	79"	121"	27.0	30.6
13'	4"	38"	80"	122"	27.0	30.6
13'	6"	39"	81"	123"	27.0	30.6
13'	8"	40"	82"	124"	27.0	30.6
13'	10"	41"	83"	125"	27.0	30.6
14'	0"	42"	84"	126"	27.0	30.6
14'	2"	43"	85"	127"	26.6	30.3
14'	4"	44"	86"	128"	26.3	29.9
14'	6"	45"	87"	129"	26.0	29.6
14'	8"	46"	88"	130"	25.7	29.2
14'	10"	47"	89"	131"	25.4	28.9
14'	0"	48"	90"	132"	25.2	28.6
15'	2"	49"	91"	133"	24.9	28.3
15'	4"	50"	92"	134"	24.6	28.0
15'	6"	51"	93"	135"	24.3	27.7
15'	8"	52"	94"	136"	24.1	27.4
15'	10"	53"	95"	137"	23.8	27.1
16'	0"	48"	96"	144"	23.6	26.8
16'	2"	49"	97"	145"	23.5	26.7



2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 22" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSEY REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART)
AT 16" O.C. (1 1/2" EMBEDMENT)
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART)
AT 16" O.C. (1 1/4" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 16'2" x 24' DESIGN LOADS +23.5 PSF -26.7 PSF TEST LOADS +35.25 PSF -40.0 PSF	Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412)	FL	dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410
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MODEL 3550 VISTA			
SIZE B	DRAWN BY BHG	DATE 6/17/10	DRAWING NUMBER IBC-3616-130-63
	CHECKED BY DRC	DATE 6/17/10	
ENGINEER: THOMAS L. SHELMERDINE P.E. LIC. No. 0048579			SHEET 3 OF 3