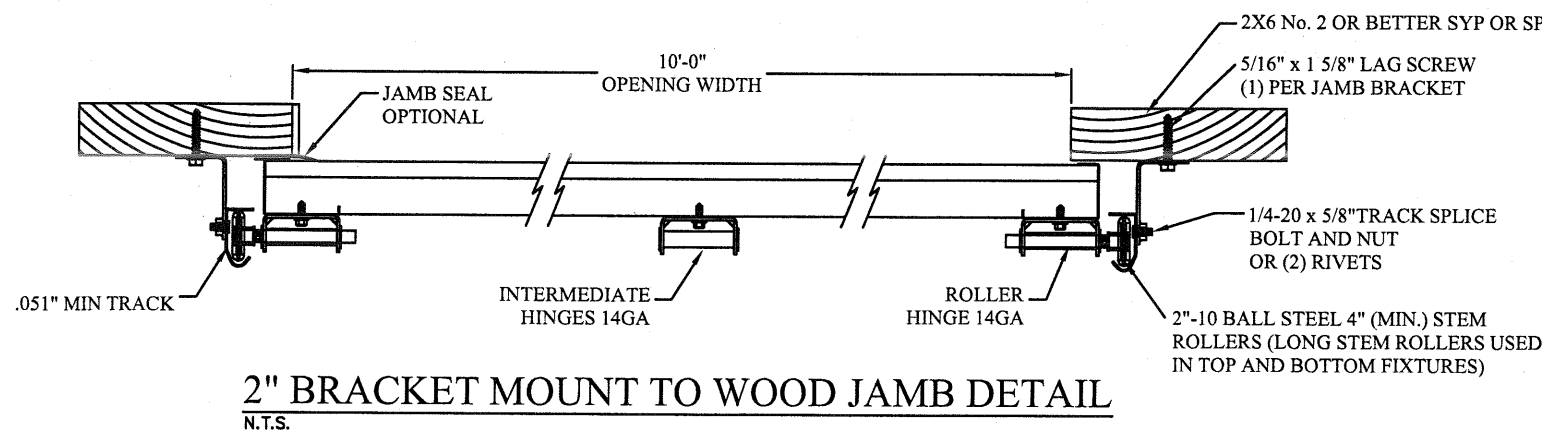
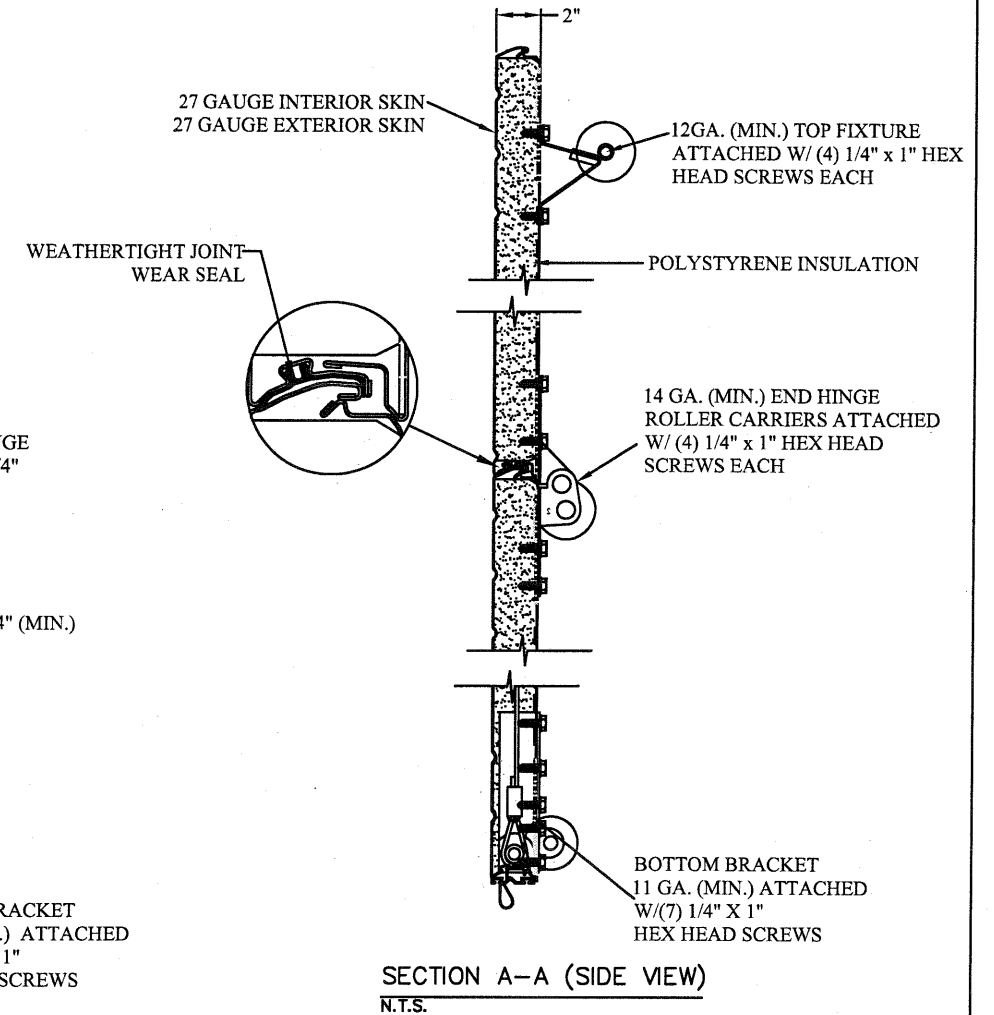
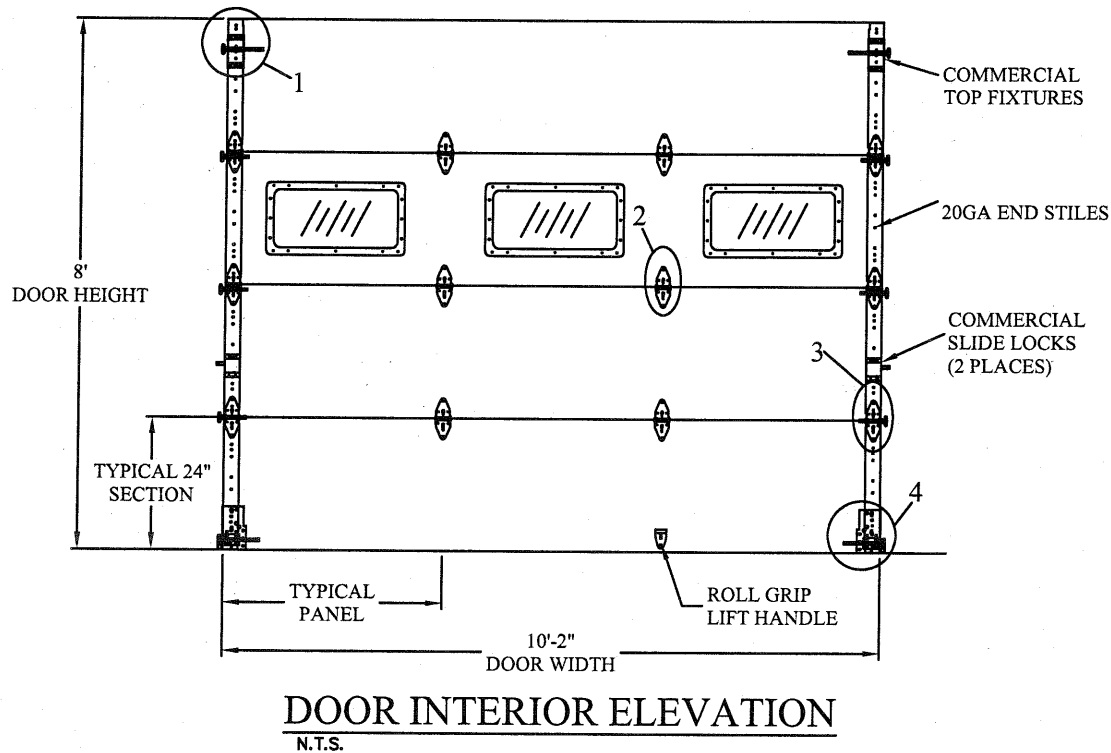
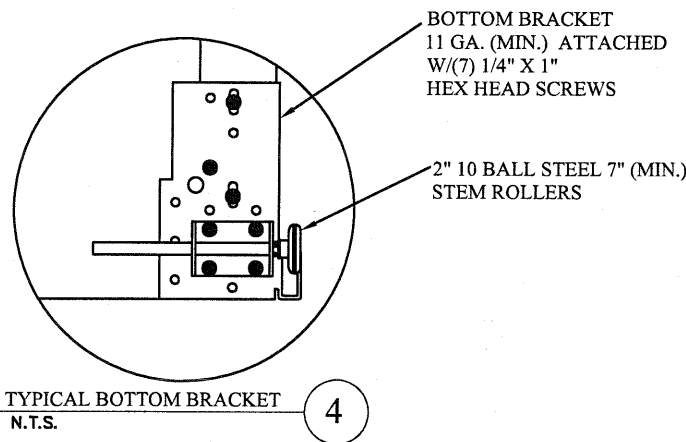
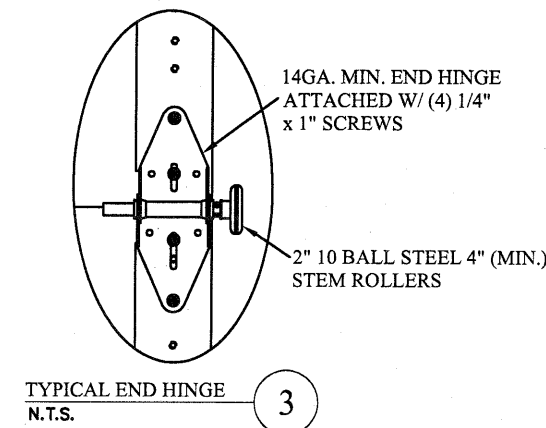
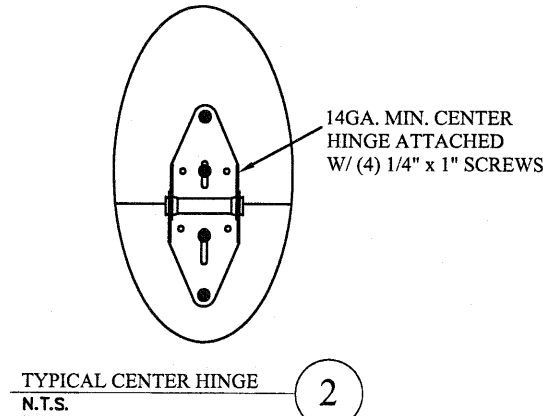
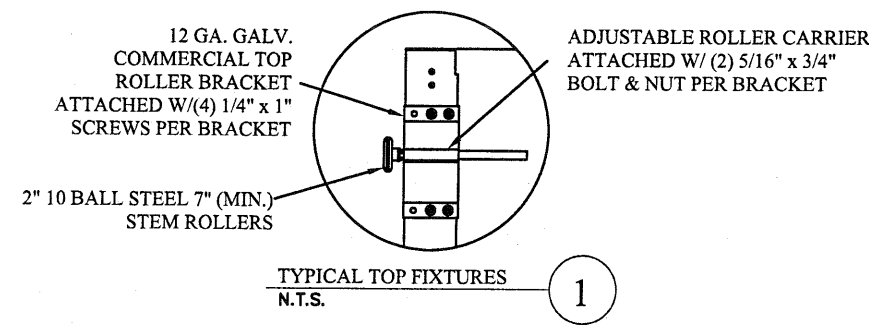




THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURES DESCRIBED IN DASMA 108. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-16 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN END ZONE, ROOF SLOPE 10° OR LESS):

|                  |     |     |     |     |     |
|------------------|-----|-----|-----|-----|-----|
| WIND SPEED (MPH) | 129 | 117 | 112 | 107 | 102 |
| EXPOSURE LEVEL   | B   | C   | C   | D   | D   |
| MEAN ROOF HEIGHT | 30' | 15' | 25' | 15' | 25' |

| REV | DESCRIPTION OF REVISIONS | DATE | BY |
|-----|--------------------------|------|----|
|     |                          |      |    |

MAX SIZE  
10'2" x 24'

DESIGN LOADS  
+14.3 PSF  
-16.6 PSF

TEST LOADS  
+21.5 PSF  
-24.9 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

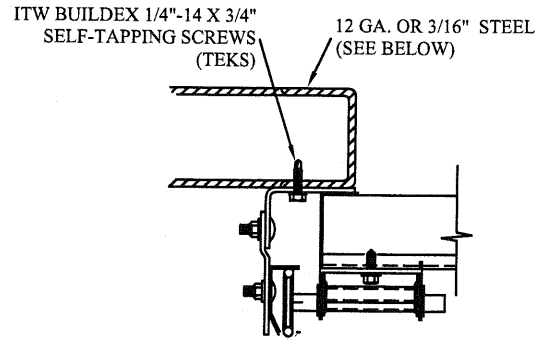
**MODEL 1700 AMARR 2732**

|           |                 |            |                |                 |                                   |
|-----------|-----------------|------------|----------------|-----------------|-----------------------------------|
| SIZE<br>B | DRAWN BY<br>DLJ | DRD<br>DLJ | DATE<br>3/6/19 | DATE<br>7/23/19 | DRAWING NUMBER<br>IBC-1710-100-00 |
|-----------|-----------------|------------|----------------|-----------------|-----------------------------------|

ENTREMATIC  
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27103

SHEET 1 OF 4

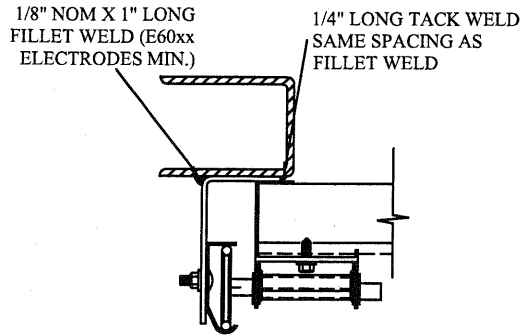
## TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



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

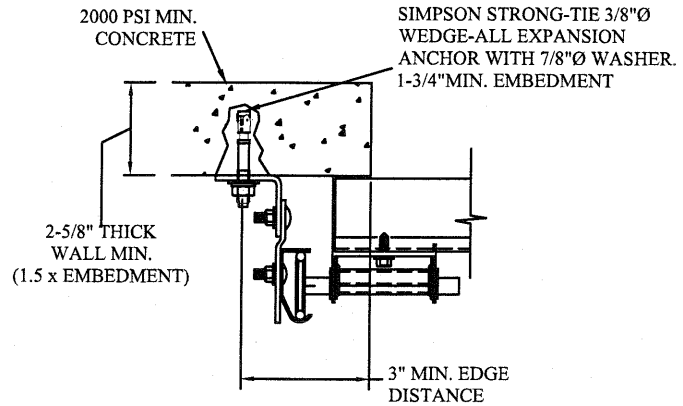
**12 GA. STEEL FRAMING**  
**232 LBS./SCREW ALLOWABLE LOAD - 6" FROM ENDS**  
**AND 24" O.C.**  
**REFER TO NOTES: 1, 2 AND 5**

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



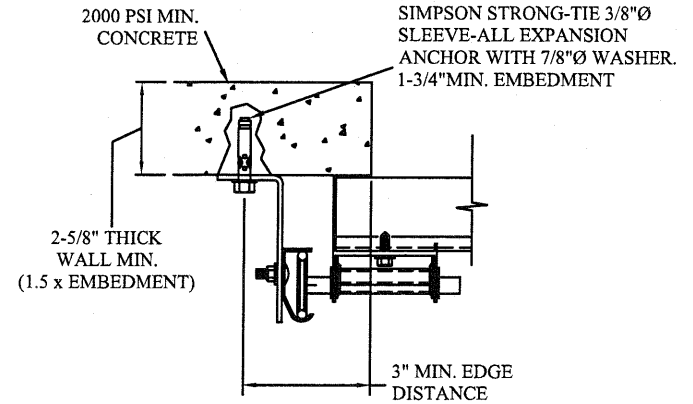
REVERSE ANGLE MOUNT SHOWN  
BRACKET, CONTINUOUS AND TAPERED  
ANGLE MOUNT AVAILABLE

**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 24" 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 24" O.C.  
REFER TO NOTES: 1, 2, 3, 4 AND 5

### SPECIFICATIONS AND NOTES

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: +72.7 LBS/FT & -84.4 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27 GA. (.015) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

### WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

## 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 24" O.C. (1 1/4" EMBEDMENT)

ITW/RAMSET 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 24" 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 24" O.C. (1 1/4" EMBEDMENT)

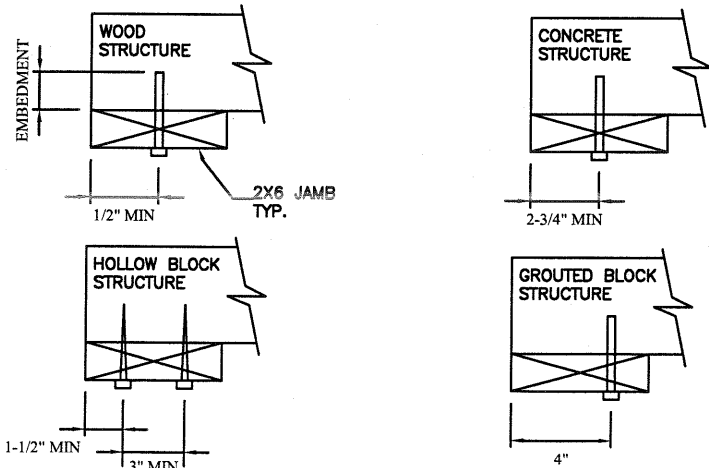
2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)

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)

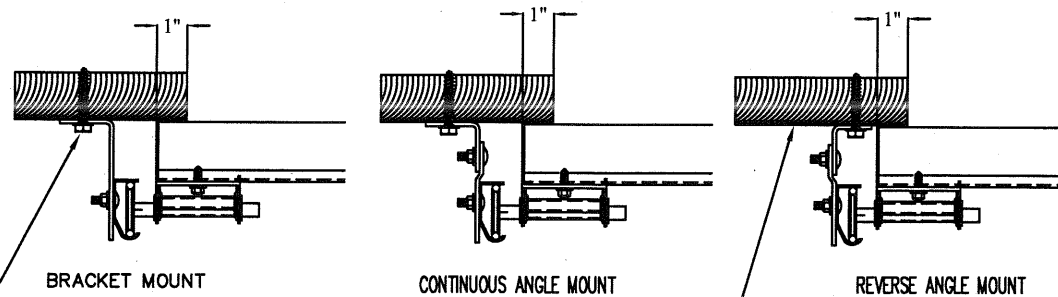
\*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.

\*PREPARATION OF WOOD JAMBS BY OTHERS



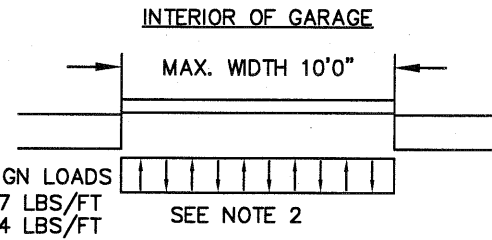
## TRACK CONNECTION TO WOOD JAMB OPTIONS

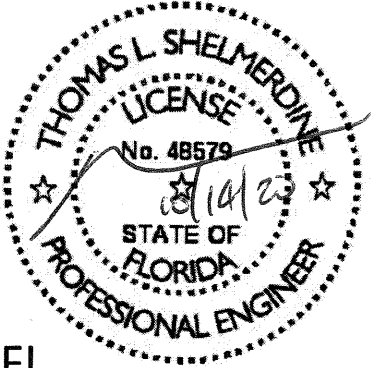
FOR LAG SCREWS & BRACKET SPACING SEE PAGE 4 FOR TRACK CONFIGURATION DETAIL

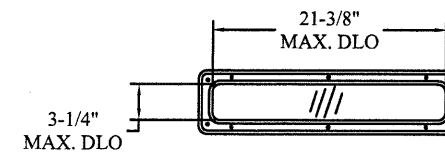
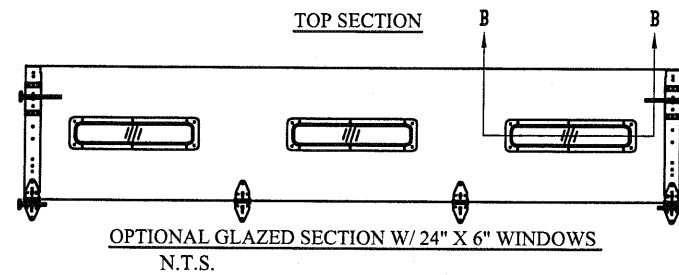


5/16" x 1 5/8" LAG SCREW (1) PER  
JAMB BRACKET (1-1/2" EMBEDMENT  
MINIMUM) (TYP.)

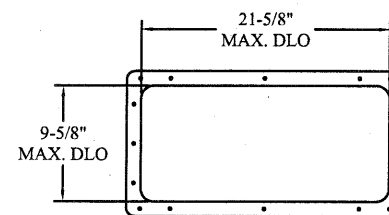
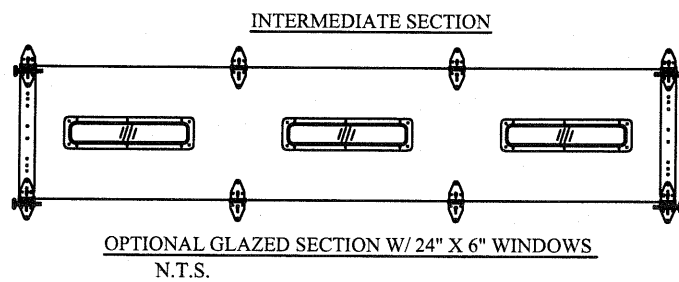
2x6 WOOD JAMB SYP OR SPF  
(NO.2) OR BETTER (TYP.)



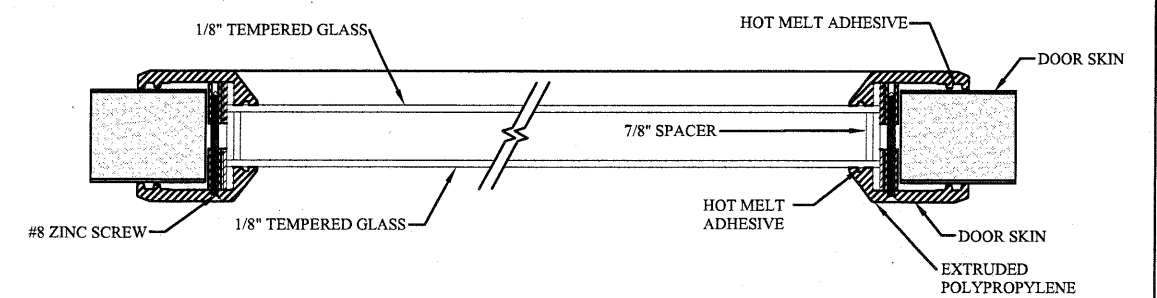
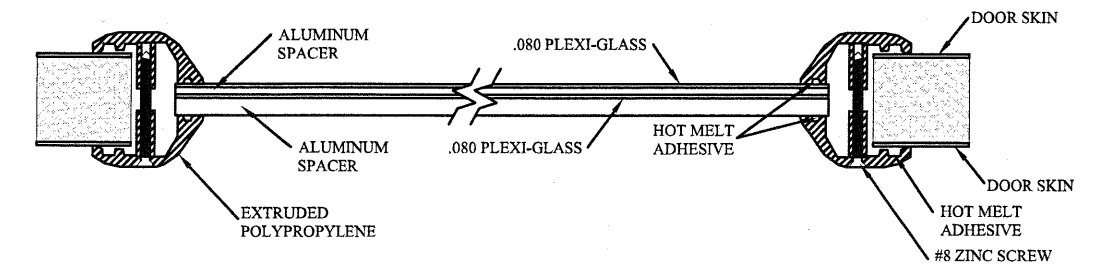
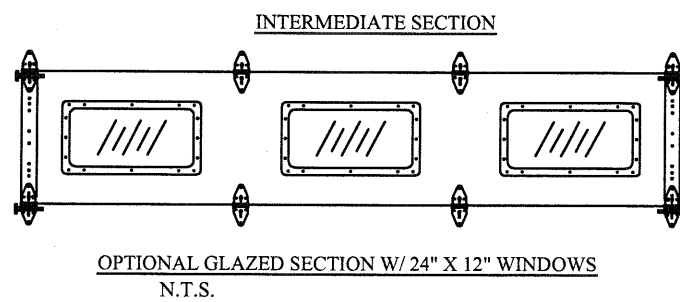
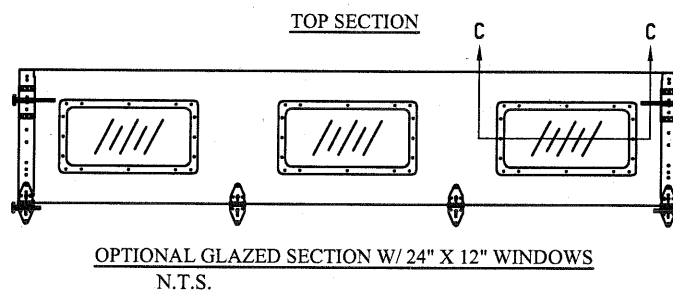
|                                                                                                                              |                          |                                                                                                                                                                                                                                                                                                           |                 |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| REV                                                                                                                          | DESCRIPTION OF REVISIONS | DATE                                                                                                                                                                                                                                                                                                      | BY              |
|                                                                                                                              |                          |                                                                                                                                                                                                                                                                                                           |                 |
| <p>MAX SIZE<br/>10'2 x 24'</p> <p>DESIGN LOADS<br/>+14.3 PSF<br/>-16.6 PSF</p> <p>TEST LOADS<br/>+21.5 PSF<br/>-24.9 PSF</p> |                          | <p>Thomas L. Shelmerdine, PE (FL PE #0048579)<br/>Structural Solutions, PA (FL Firm #29412)</p> <p>FL</p>  <p>dba Structural Solutions of North Carolina, Inc.<br/>5921-G W. Friendly Ave., Greensboro, NC 27410</p> |                 |
|                                         |                          |                                                                                                                                                                                                                                                                                                           |                 |
| <p>MODEL 1700 AMARR 2732</p>                                                                                                 |                          |                                                                                                                                                                                                                                                                                                           |                 |
| SIZE                                                                                                                         | DRAWN BY                 | DRD                                                                                                                                                                                                                                                                                                       | DATE 3/6/19     |
| B                                                                                                                            | CHECKED BY               | BLR                                                                                                                                                                                                                                                                                                       | DATE 7/23/19    |
| ENTREMATIC                                                                                                                   |                          |                                                                                                                                                                                                                                                                                                           | DRAWING NUMBER  |
| 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105                                                                                 |                          |                                                                                                                                                                                                                                                                                                           | IBC-1710-100-00 |
|                                                                                                                              |                          |                                                                                                                                                                                                                                                                                                           | SHEET 2 OF 4    |



24" X 6" DAY LIGHT OPENING AND FASTENER DETAIL  
N.T.S.



24" X 12" DAY LIGHT OPENING AND FASTENER DETAIL  
N.T.S.



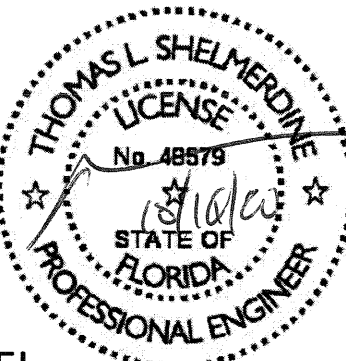
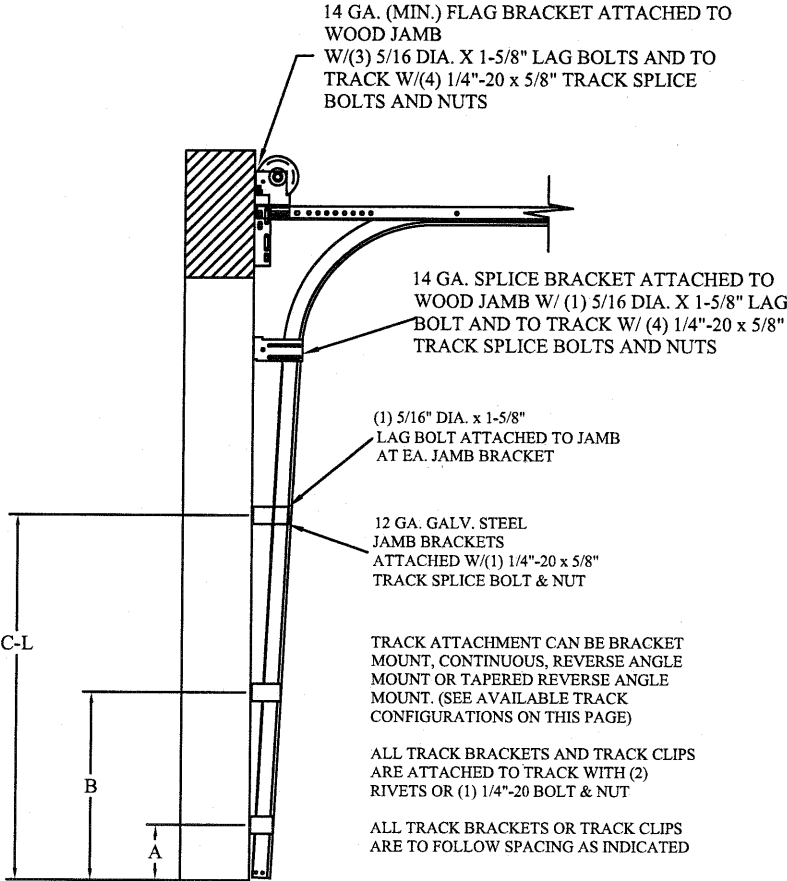
|                                                                                                                              |                                                                                                           |                                                                                                                                                                                                 |                                              |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| REV                                                                                                                          | DESCRIPTION OF REVISIONS                                                                                  | DATE                                                                                                                                                                                            | BY                                           |
|                                                                                                                              |                                                                                                           |                                                                                                                                                                                                 |                                              |
| <p>MAX SIZE<br/>10'2 x 24'</p> <p>DESIGN LOADS<br/>+14.3 PSF<br/>-16.6 PSF</p> <p>TEST LOADS<br/>+21.5 PSF<br/>-24.9 PSF</p> | <p>Thomas L. Shelmerdine, PE (FL PE #0048579)<br/>Structural Solutions, PA (FL Firm #29412)</p> <p>FL</p> |  <p>dba Structural Solutions of North Carolina, Inc.<br/>5921-G W. Friendly Ave., Greensboro, NC 27410</p> |                                              |
|                                         |                                                                                                           |                                                                                                                                                                                                 |                                              |
| <p>MODEL 1700 AMARR 2732</p>                                                                                                 |                                                                                                           |                                                                                                                                                                                                 |                                              |
| SIZE                                                                                                                         | DRAWN BY                                                                                                  | DRD                                                                                                                                                                                             | DATE 3/6/19                                  |
| B                                                                                                                            | CHECKED BY                                                                                                | BLR                                                                                                                                                                                             | DATE 7/23/19                                 |
| <p>ENTREMATIC</p> <p>165 CARRIAGE COURT WINSTON-SALEM, NC 27105</p>                                                          |                                                                                                           |                                                                                                                                                                                                 | <p>DRAWING NUMBER</p> <p>IBC-1710-100-00</p> |
| <p>SHEET 3 OF 4</p>                                                                                                          |                                                                                                           |                                                                                                                                                                                                 | <p>SHEET 3 OF 4</p>                          |

TABLE 1

| Section Width (ft) | Center Stile Locations |          | Max Design Loads Allowed |                |
|--------------------|------------------------|----------|--------------------------|----------------|
|                    | 1st (in)               | 2nd (in) | Positive (PSF)           | Negative (PSF) |
| 6' 0"              | 36"                    | -        | 16.0                     | 18.6           |
| 6' 2"              | 37"                    | -        | 15.6                     | 18.1           |
| 6' 4"              | 38"                    | -        | 15.2                     | 17.6           |
| 6' 6"              | 39"                    | -        | 14.8                     | 17.2           |
| 6' 8"              | 40"                    | -        | 14.4                     | 16.8           |
| 6' 10"             | 41"                    | -        | 14.1                     | 16.3           |
| 7' 0"              | 42"                    | -        | 13.7                     | 16.0           |
| 7' 2"              | 43"                    | -        | 13.4                     | 15.6           |
| 7' 4"              | 44"                    | -        | 13.1                     | 15.2           |
| 7' 6"              | 45"                    | -        | 12.8                     | 14.9           |
| 7' 8"              | 46"                    | -        | 12.5                     | 14.6           |
| 7' 10"             | 47"                    | -        | 12.3                     | 14.3           |
| 8' 0"              | 48"                    | -        | 12.0                     | 14.0           |
| 8' 2"              | 49"                    | -        | 11.8                     | 13.7           |
| 8' 4"              | 50"                    | -        | 11.5                     | 13.4           |
| 8' 6"              | 51"                    | -        | 11.3                     | 13.1           |
| 8' 8"              | 52"                    | -        | 11.1                     | 12.9           |
| 8' 10"             | 53"                    | -        | 10.9                     | 12.6           |
| 9' 0"              | 54"                    | -        | 10.7                     | 12.4           |
| 9' 2"              | 55"                    | -        | 10.5                     | 12.2           |
| 9' 4"              | 36"                    | 76"      | 15.1                     | 17.6           |
| 9' 6"              | 37"                    | 77"      | 14.9                     | 17.3           |
| 9' 8"              | 38"                    | 78"      | 14.7                     | 17.1           |
| 9' 10"             | 39"                    | 79"      | 14.5                     | 16.9           |
| 10' 0"             | 40"                    | 80"      | 14.4                     | 16.7           |
| 10' 2"             | 41"                    | 81"      | 14.3                     | 16.6           |

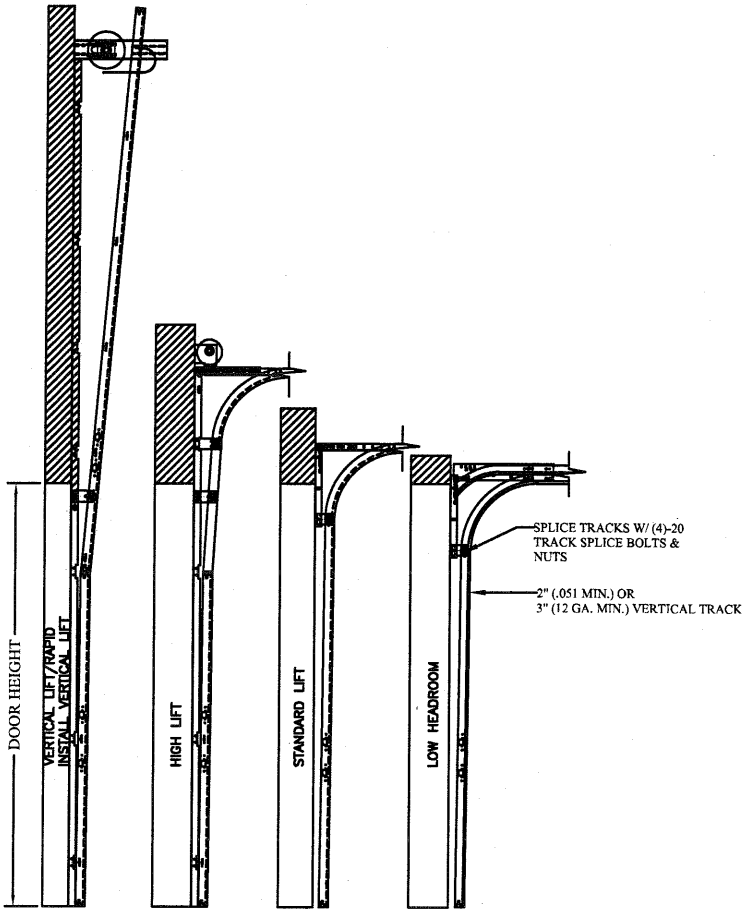


TRACK CONFIGURATION FOR UP TO 24' TALL DOORS  
SEE TABLE 2

TABLE 2

| DOOR<br>HEIGHT | TRACK ATTACHMENT |     |     |     |      |      |      |      |      |      |      |      |        | TYPICAL |
|----------------|------------------|-----|-----|-----|------|------|------|------|------|------|------|------|--------|---------|
|                | A                | B   | C   | D   | E    | F    | G    | H    | I    | J    | K    | L    | SPLICE |         |
| 7' 0"          | 10.0"            | 34" | 58" |     |      |      |      |      |      |      |      |      | 76"    |         |
| 7' 6"          | 10.0"            | 34" | 58" |     |      |      |      |      |      |      |      |      | 82"    |         |
| 8' 0"          | 10.0"            | 34" | 58" |     |      |      |      |      |      |      |      |      | 88"    |         |
| 8' 6"          | 10.0"            | 34" | 58" | 82" |      |      |      |      |      |      |      |      | 94"    |         |
| 9' 0"          | 10.0"            | 34" | 58" | 82" |      |      |      |      |      |      |      |      | 100"   |         |
| 9' 6"          | 10.0"            | 34" | 58" | 82" |      |      |      |      |      |      |      |      | 106"   |         |
| 10' 0"         | 10.0"            | 34" | 58" | 82" | 106" |      |      |      |      |      |      |      | 112"   |         |
| 11' 0"         | 10.0"            | 34" | 58" | 82" | 106" |      |      |      |      |      |      |      | 124"   |         |
| 12' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" |      |      |      |      |      |      | 136"   |         |
| 13' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" |      |      |      |      |      |      | 148"   |         |
| 14' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" | 154" |      |      |      |      |      | 160"   |         |
| 15' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" | 154" |      |      |      |      |      | 172"   |         |
| 16' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" | 154" | 178" |      |      |      |      | 184"   |         |
| 17' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" | 154" | 178" |      |      |      |      | 196"   |         |
| 18' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" | 154" | 178" | 202" |      |      |      | 208"   |         |
| 19' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" | 154" | 178" | 202" |      |      |      | 220"   |         |
| 20' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" | 154" | 178" | 202" | 226" |      |      | 232"   |         |
| 21' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" | 154" | 178" | 202" | 226" |      |      | 244"   |         |
| 22' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" | 154" | 178" | 202" | 226" | 250" |      | 256"   |         |
| 23' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" | 154" | 178" | 202" | 226" | 250" |      | 268"   |         |
| 24' 0"         | 10.0"            | 34" | 58" | 82" | 106" | 130" | 154" | 178" | 202" | 226" | 250" | 274" | 280"   |         |

ALL TRACK ATTACHMENTS +/- 2" ALLOWED USING SYP OR SPF NO.2 OR BETTER ONLY



AVAILABLE TRACK CONFIGURATIONS  
N.T.S.

| REV | DESCRIPTION OF REVISIONS | DATE | BY |
|-----|--------------------------|------|----|
|     |                          |      |    |

MAX SIZE  
10'2 x 24'

DESIGN LOADS  
+14.3 PSF  
-16.6 PSF

TEST LOADS  
+21.5 PSF  
-24.9 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

Amarr

MODEL 1700 AMARR 2732

|      |            |     |      |         |                 |
|------|------------|-----|------|---------|-----------------|
| SIZE | DRAWN BY   | DRD | DATE | 3/6/19  | DRAWING NUMBER  |
| B    | CHECKED BY | DLJ | DATE | 7/23/19 | IBC-1710-100-00 |

ENTREMATIC  
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 4 OF 4