



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidadecounty.gov/economy](http://www.miamidadecounty.gov/economy)

**Amarr Garage Doors**  
125 Carriage Court  
Winston-Salem, NC 27105

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Model 950 Heritage & 655 Oak Summit 1000, 2000 Steel Sectional Garage Door up to 9'-0" Wide (DP +51.1, -60.3 PSF)**

**APPROVAL DOCUMENT:** Drawing No. **IRC-9509-180-21**, titled "Model 950 Heritage & Model 655 Oak Summit, (24 GA) 1000, 2000, Short, Long, Flush and Oak Summit Panels", sheets 1 through 3 of 3, dated 03/14/2003, with revision B dated 10/13/2011, prepared by Amarr Garage Doors, signed and sealed by Tomas L. Shelmerdine, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** A permanent label with the manufacturer's name or logo, 3800 Greenway Circle, Lawrence, Kansas, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 13-0503.06 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



*Carlos M. Utrera*  
07/09/2015

NOA No 15-0505.11  
Expiration Date: September 4, 2018  
Approval Date: July 16, 2015  
Page 1

Amarr Garage Doors

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS “Submitted under NOA # 13-0503.06”**

1. Drawing No. **IRC-9509-180-21**, titled “Model 950 Heritage & Model 655 Oak Summit, (24 GA) 1000, 2000, Short, Long, Flush and Oak Summit Panels”, sheets 1 through 3 of 3, dated 03/14/2003, with revision B dated 10/13/2011, prepared by Amarr Garage Doors, signed and sealed by Thomas L. Shelmerdine, P.E.

**B. TESTS “Submitted under NOA # 13-0503.06”**

1. Addendum to Test Report No. **ATLNC 0129.01-13R**, prepared by American Test Lab, Inc., dated 06/11/2013, signed and sealed by David W. Johnson, P.E.
2. Test report on Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments per ASTM D1654 & ASTM B117, prepared by Architectural Testing, Inc., Test Report No. **C5463.01-106-18**, dated 04/03/2013, signed and sealed by Gary T. Hartman, P.E.
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
4) Tensile Test per ASTM E8  
5) Forced Entry Resistance Test per FBC, TAS 202-94  
along with marked-up drawings and installation diagram of 9’x 7’ 24 ga steel garage door Model 950, prepared by American Test Lab, Inc., Test Report No. **ATLNC 0129.01-13R**, dated 04/02/2013, signed and sealed by David W. Johnson, P.E.
4. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of 9’x 7’ Model 950D Heritage with Durasafe, 24 ga Sectional Steel Garage Door, prepared by American Test Lab, Inc., Test Report No. **ATL 0311.01-03R**, dated 06/22/2006, signed and sealed by David W. Johnson, P.E. “Submitted under NOA # 08-0718.01”

**C. CALCULATIONS “Submitted under NOA # 13-0503.06”**

1. Anchor calculations prepared by Structural Solutions, P.A., dated 04/11/2013, signed and sealed by Thomas L. Shelmerdine, P.E.
2. Anchor calculations prepared by Structural Solutions, P.A., dated 01/25/2012, signed and sealed by Thomas L. Shelmerdine, P.E. “Submitted under NOA # 08-0718.01”

**D. QUALITY ASSURANCE**

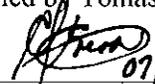
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. None.

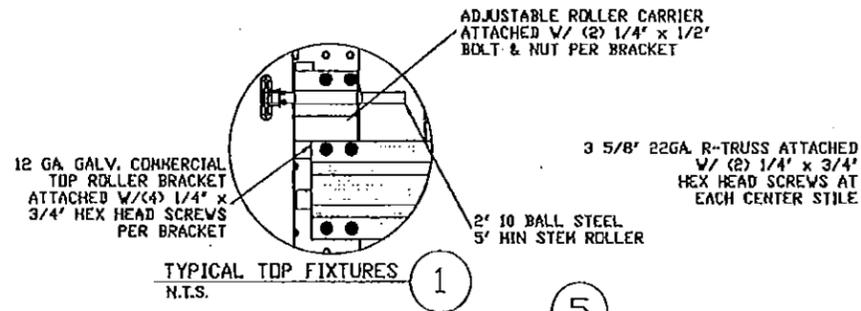
**F. STATEMENTS**

1. Statement letter of code conformance to the 5<sup>th</sup> edition (2014) FBC and no financial interest issued by Structural Solutions, PA., dated 04/08/2015, signed and sealed by Tomas L. Shelmerdine, P.E.

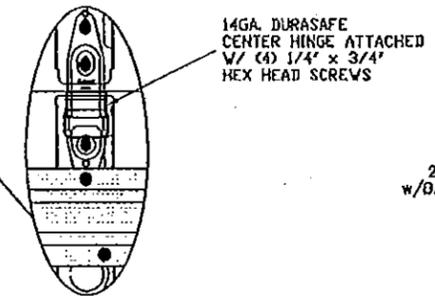
  
07/09/2015

Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No 15-0505.11

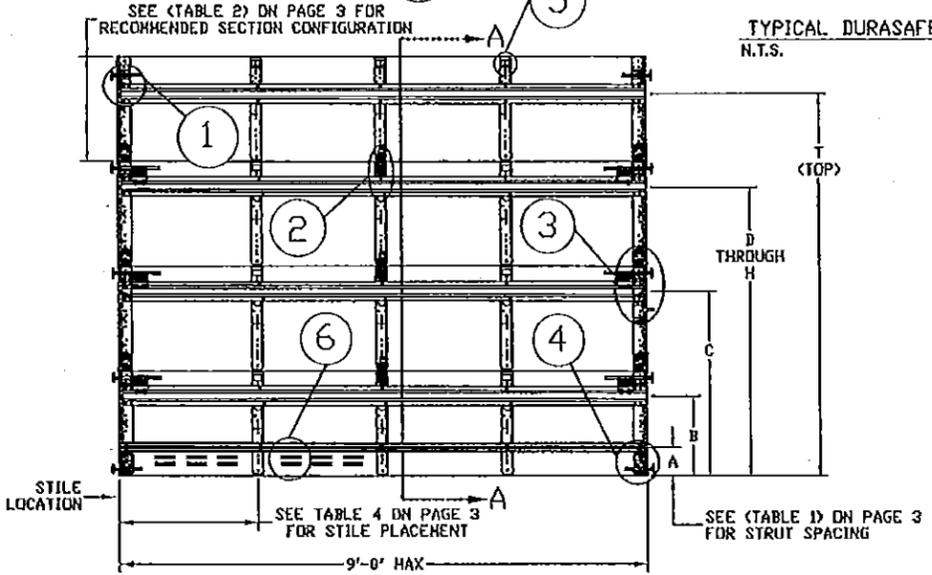
Expiration Date: September 4, 2018  
Approval Date: July 16, 2015



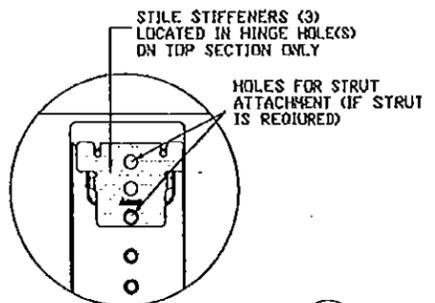
**TYPICAL TOP FIXTURES**  
N.T.S.



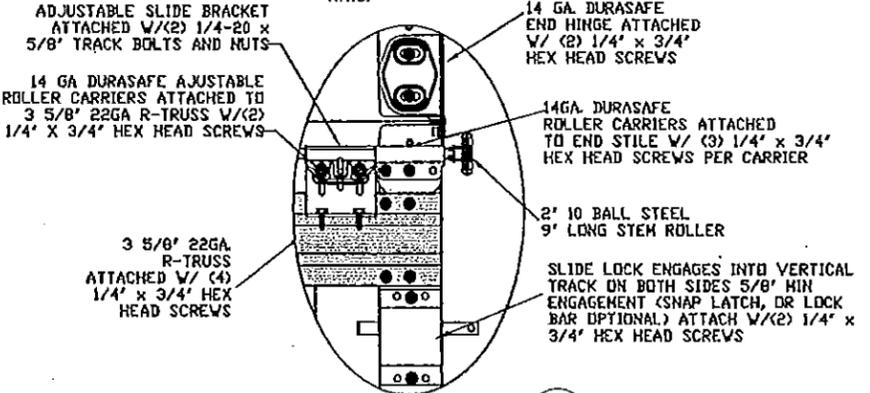
**TYPICAL DURASAFE CENTER HINGE**  
N.T.S.



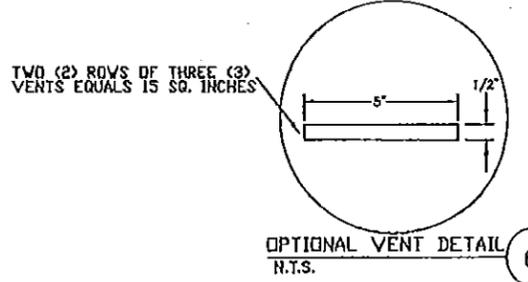
**INSIDE ELEVATION**  
N.T.S.



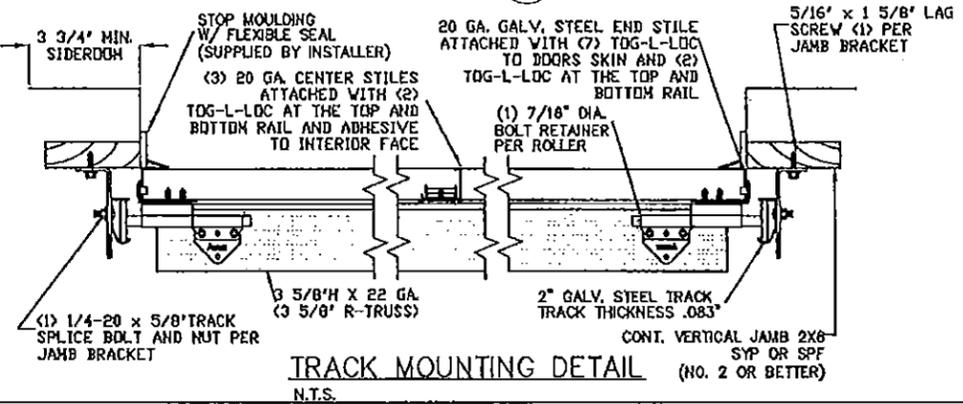
**TYPICAL STILE STIFFENER**  
N.T.S.



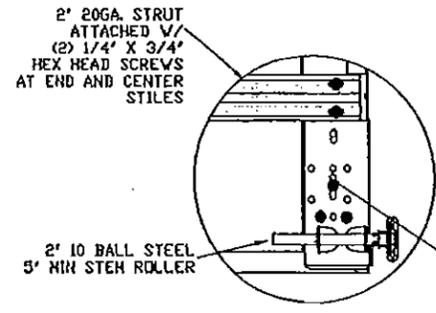
**TYPICAL DURASAFE END HINGE**  
N.T.S.



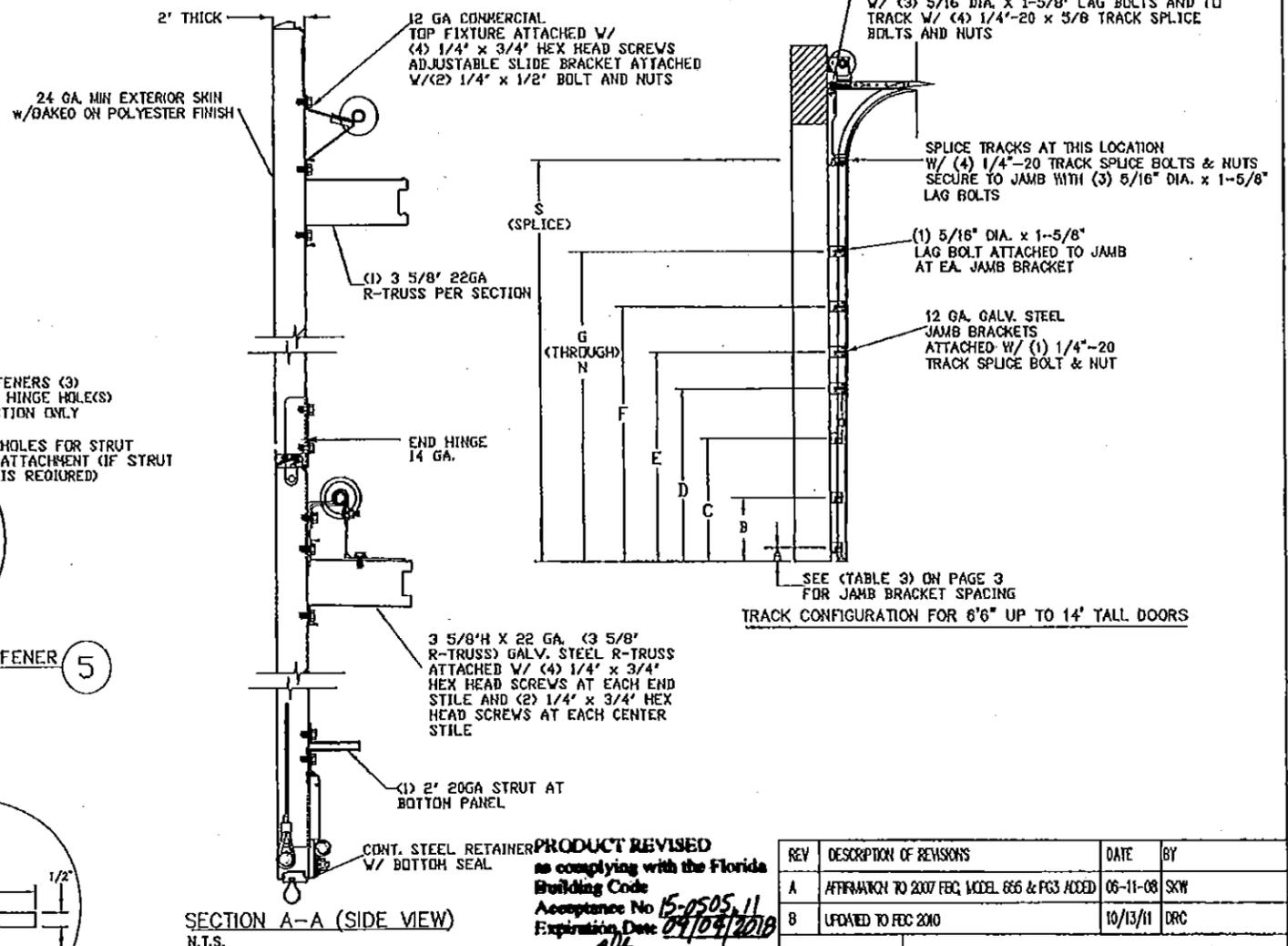
**OPTIONAL VENT DETAIL**  
N.T.S.



**TRACK MOUNTING DETAIL**  
N.T.S.



**TYPICAL BOTTOM BRACKET**  
N.T.S.



**SECTION A-A (SIDE VIEW)**  
N.T.S.

# LARGE MISSILE IMPACT RESISTANT

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 15-0505.11  
Expiration Date 04/04/2018  
By *[Signature]*  
Miami Trade Product Control

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 13-0503.06  
Expiration Date 07/04/2018  
By *[Signature]*  
Miami Trade Product Control

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	APPROXIMATE TO 2007 IBC MODEL 665 & 663 ADDED	05-11-08	SKW
B	UPDATED TO IBC 2000	10/13/11	DRC

MAX SIZE 9' x 14'

DESIGN LOADS  
+51.1 PSF  
-60.3 PSF

LARGE MISSILE IMPACT RESISTANCE

Thomas L. Shelmerdine, PE (FL PE #0048579)  
Structural Solutions, PA (FL Firm #259412)

**FL**

**THOMAS L. SHELMERDINE**  
LICENSE  
No 0048579  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

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

**Amarr**

165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM

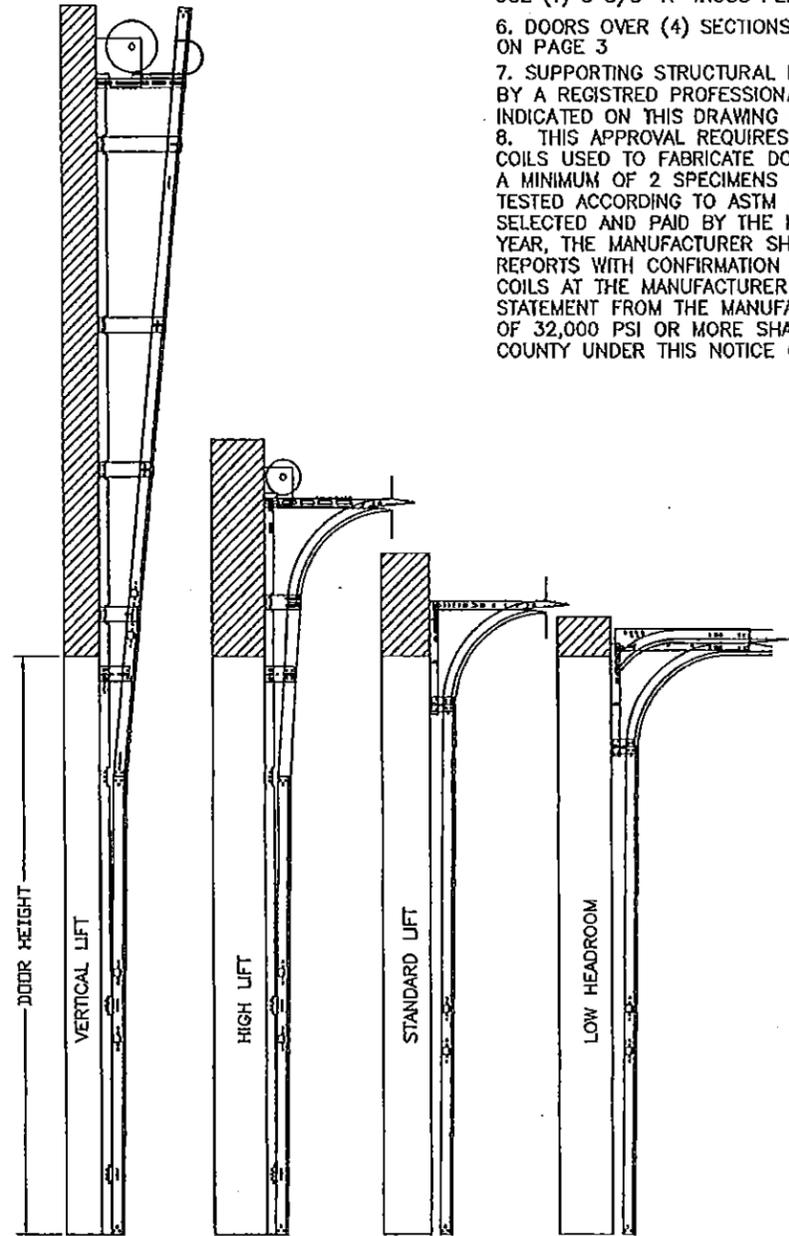
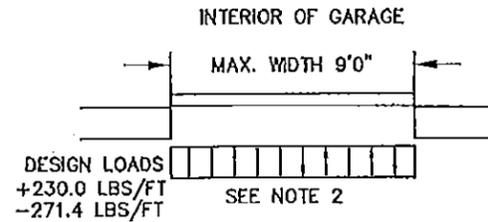
MODEL 960 HERITAGE (24 GA) 1000, 2000  
MODEL 665 OAK SUMMIT (24 GA) 1000, 2000  
SHORT, LONG, FLUSH, AND OAK SUMMIT PANELS

SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	DLJ	03/12/03	1RC-9509-180-21
	CHECKED BY	AAE	DATE 03/14/03

SHEET 1 OF 3

**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: +230.0 LBS/FT & -271.4 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. (.0216) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UPTO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN. USE (1) 3 5/8" R-TRUSS PER SECTION
6. DOORS OVER (4) SECTIONS REFER TO TABLES 1 AND 2 ON PAGE 3
7. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
8. THIS APPROVAL REQUIRES THE MANUFACTURER TO DO TESTING OF ALL COILS USED TO FABRICATE DOOR PANELS UNDER THIS NOTICE OF ACCEPTANCE. A MINIMUM OF 2 SPECIMENS SHALL BE CUT FROM EACH COIL AND TENSILE TESTED ACCORDING TO ASTM E-8 BY A DADE COUNTY APPROVED LAB SELECTED AND PAID BY THE MANUFACTURER. EVERY 3 MONTHS, 4 TIMES A YEAR, THE MANUFACTURER SHALL MAIL TO THIS OFFICE: A COPY OF THE TEST REPORTS WITH CONFIRMATION THAT THE SPECIMENS WERE SELECTED FROM COILS AT THE MANUFACTURER PRODUCTION FACILITIES. AND A NOTARIZED STATEMENT FROM THE MANUFACTURER THAT ONLY COILS WITH YIELD STRENGTH OF 32,000 PSI OR MORE SHALL BE USED TO MAKE DOOR PANELS FOR DADE COUNTY UNDER THIS NOTICE OF ACCEPTANCE.



AVAILABLE TRACK CONFIGURATIONS  
N.T.S.

**WOOD JAMB ATTACHMENT TO STRUCTURE**

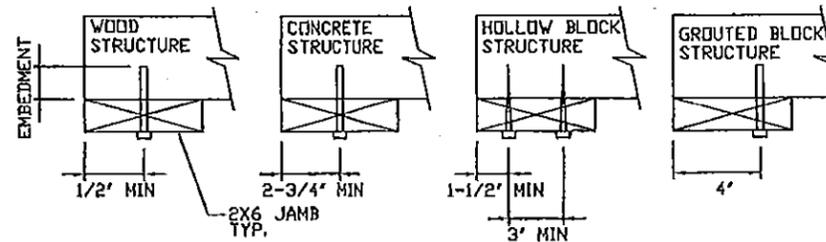
**2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE**  
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 20" O.C. (1 1/2" EMBEDMENT)

**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 18" O.C. (1 1/4" EMBEDMENT)  
ITW/RANSET 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 8" 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 8" 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 22" 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



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 15-0505.11  
Expiration Date 09/04/2018  
By *[Signature]*  
Miami Dade Product Control

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 13-0503.06  
Expiration Date 09/04/2018  
By *[Signature]*  
Miami Dade Product Control

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	ADDITION TO 2007 FBC, MODEL 655 & PGS ADDED	06-11-08	SKW
B	UPDATED TO FBC 2010	10/13/11	DRC

MAX SIZE  
9' x 14'

DESIGN LOADS  
+51.1 PSF  
-60.3 PSF

LARGE MISSILE  
IMPACT  
RESISTANCE

Thomas L. Shelmerdine, PE (FL PE #0048579)  
Structural Solutions, PA (FL Firm #29402)

FL

STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
No. 0048579

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

**Amarr**

165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM

MODEL 950 HERITAGE (24 GA) 1000, 2000  
MODEL 855 OAK SUMMIT (24 GA) 1000, 2000  
SHORT, LONG, FLUSH, AND OAK SUMMIT PANELS

SIZE	DRAWN BY	DLJ	DATE	03/12/03	DRAWING NUMBER
B	CHECKED BY	AAE	DATE	03/14/03	IRC-9509-180-21

SHEET 2 OF 3

TABLE 1

DOOR HEIGHT	STRUT SPACING (BASED ON RECOMMENDED SECTION CONFIGURATION)								TOP
	A	B	C	D	E	F	G	H	
6' 6"	5 1/2"	16"	34"	52"					70 1/2"
7'	5 1/2"	16"	37"	58"					76 1/2"
7' 6"	5 1/2"	13"	31"	49"	67"				82 1/2"
8'	5 1/2"	16"	34"	52"	70"				88 1/2"
8' 6"	5 1/2"	16"	37"	58"	76"				94 1/2"
9'	5 1/2"	13"	31"	49"	67"	85"			100 1/2"
9' 6"	5 1/2"	16"	34"	52"	70"	88"			106 1/2"
10'	5 1/2"	16"	37"	58"	76"	94"			112 1/2"
10' 6"	5 1/2"	16"	37"	58"	79"	100"			118 1/2"
11'	5 1/2"	16"	34"	52"	70"	88"	106"		124 1/2"
11' 6"	5 1/2"	16"	37"	58"	76"	94"	112"		130 1/2"
12'	5 1/2"	16"	37"	58"	79"	100"	118"		136 1/2"
12' 6"	5 1/2"	16"	34"	52"	70"	88"	106"	124"	142 1/2"
13'	5 1/2"	16"	37"	58"	76"	94"	112"	130"	148 1/2"
13' 6"	5 1/2"	16"	37"	58"	79"	100"	118"	136"	154 1/2"
14'	5 1/2"	16"	37"	58"	79"	100"	121"	142"	160 1/2"

TABLE 2

DOOR HEIGHT	SECTION HEIGHTS							
	Btm	#2	#3	#4	#5	#6	#7	#8
14' 0"	21"	21"	21"	21"	21"	21"	21"	21"
13' 6"	21"	21"	21"	21"	21"	18"	18"	21"
13' 0"	21"	21"	21"	18"	18"	18"	18"	21"
12' 6"	21"	18"	18"	18"	18"	18"	18"	21"
12' 0"	21"	21"	21"	21"	21"	18"	21"	
11' 6"	21"	21"	21"	18"	18"	18"	21"	
11' 0"	21"	18"	18"	18"	18"	18"	21"	
10' 6"	21"	21"	21"	21"	21"	21"		
10' 0"	21"	21"	21"	18"	18"	21"		
9' 6"	21"	18"	18"	18"	18"	21"		
9' 0"	18"	18"	18"	18"	18"	18"		
8' 6"	21"	21"	21"	18"	21"			
8' 0"	21"	18"	18"	18"	21"			
7' 6"	18"	18"	18"	18"	18"			
7' 0"	21"	21"	21"	21"				
6' 6"	21"	18"	18"	21"				

TABLE 4

Section Width (ft)	Panel Type	Center Stile Location (Measured from Left Edge)		
		1st (in)	2st (in)	3rd (in)
8' 0"	Short	24.812	48.000	71.188
8' 0"	Long	24.000	48.000	72.000
8' 0"	Bead	24.625	48.000	71.375
8' 2"	Short	24.316	49.000	73.684
8' 2"	Long	24.500	49.000	73.500
8' 2"	Bead	25.125	49.000	72.875
8' 4"	Short	24.580	50.000	75.420
8' 4"	Long	25.000	50.000	75.000
8' 4"	Bead	25.625	50.000	74.375
8' 6"	Short	26.029	51.000	75.971
8' 6"	Long	25.500	51.000	76.500
8' 6"	Bead	26.125	51.000	75.875
8' 8"	Short	26.659	52.000	77.341
8' 8"	Long	26.000	52.000	78.000
8' 8"	Bead	26.625	52.000	77.375
8' 10"	Short	27.034	53.000	78.966
8' 10"	Long	26.500	53.000	79.500
8' 10"	Bead	27.125	53.000	78.875
9' 0"	Short	27.596	54.000	80.404
9' 0"	Long	27.000	54.000	81.000
9' 0"	Bead	27.625	54.000	80.375

TABLE 3

DOOR HEIGHT	TRACK ATTACHMENT														SPLICE	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N		
6' 6"	3"	14"	27"	38"	46"	56"	64"									70"
7'	3"	14"	27"	38"	46"	56"	68"									76"
7' 6"	3"	14"	27"	38"	46"	56"	68"	78"								82"
8'	3"	14"	27"	38"	46"	56"	68"	78"								88"
8' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"							94"
9'	3"	14"	27"	38"	46"	56"	68"	78"	88"							100"
9' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	98"						106"
10'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"						112"
10' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"					118"
11'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"					124"
11' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"	120"				130"
12'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"	122"				136"
12' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	109"	122"	132"			142"
13'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	114"	122"	134"			148"
13' 6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	109"	122"	134"	144"		154"
14'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	114"	122"	134"	146"		160"

ALL TRACK ATTACHMENT SPACING +/- 2" ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY

PRODUCT REVISED  
 as complying with the Florida Building Code  
 Acceptance No 15-0505.11  
 Expiration Date 09/04/2018  
 By *[Signature]*  
 Miami Code Product Control

PRODUCT REVISED  
 as complying with the Florida Building Code  
 Acceptance No 13-0503.06  
 Expiration Date 09/04/2018  
 By *[Signature]*  
 Miami Code Product Control

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	ADDITION TO 2007 IBC, MODEL 665 & PGS ADDED	06-11-08	SKW
B	UPDATED TO IBC 2010	10/13/11	ERC

MAX SIZE 9' x 14'  
 DESIGN LOADS +51.1 PSF -60.3 PSF  
 LARGE MISSILE IMPACT RESISTANCE

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

FL

Amarr

165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM  
 MODEL 950 HERITAGE (24 GA) 1000, 2000  
 MODEL 665 OAK SUMMIT (24 GA) 1000, 2000  
 SHORT, LONG, FLUSH, AND OAK SUMMIT PANELS

SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	DLJ	03/12/03	IRC-9509-180-21
B	AAE	03/14/03	

SHEET 3 OF 3