



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov

Whirlwind Building Systems
P.O. Box 75280
Houston, TX 77234-5280

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Super Span X 24 Ga. (0.024" min.) Steel Roof Panels System

APPROVAL DOCUMENT: Drawing titled " Super Span X 24 GA. Roof Details ", prepared by Terrence E. Wolfe, P.E., dated November 28, 2007, last revision dated November 28, 2007, signed and sealed by Chander P. Nangia, P.E., on November 04, 2008, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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 consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
 02/04/2009

NOA No. 08-0310.10
Expiration Date: 02/04/2014
Approval Date: 02/04/2009

Whirlwind Building Systems

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS:

1. Drawing titled " Super Span X 24 GA. Roof Details ", prepared by Terrence E. Wolfe, P.E., dated November 28, 2007, last revision dated November 28, 2007, signed and sealed by Chander P. Nangia, P.E., on November 04, 2008.

B. TESTS

1. Test report on Large Missile Impact Test, prepared by Farabaugh Engineering and Testing, Inc., Test Report No. T304-07, dated 10/28/2007, signed and sealed by Daniel G. Farabaugh, P.E.
2. Test report on: 1000 hours in salt spray per ASTM B117, prepared by Asphalt Technologies, Akzo Nobel Coatings, Inc. dated 10/08/2002, signed and sealed by Charles L. Thomas.
3. Test report on: 2000 hours Accelerated Weathering per ASTM G26, prepared by Asphalt Technologies, Akzo Nobel Coatings, Inc. dated 10/08/2002, signed and sealed by Charles L. Thomas.
4. Water Spray Leakage Test per FM 4471, Appendix G, prepared by Farabaugh Engineering and Testing, Inc., Test Report No. T305-07, dated 10/30/2007, signed and sealed by Daniel G. Farabaugh, P.E.
5. Structural Performance Test report per TAS 125-03 per ASTM E 1592-01, prepared by Force Engineering & Testing, Inc., Test Report # 14-0325T-07A, B, dated 10/27/07, signed and sealed by Terrence E. Wolfe, P.E.
6. Structural Performance Test report per TAS 125-03 per ASTM E 1592-01, prepared by Force Engineering & Testing, Inc., Test Report # 14-0325T-07C, dated 10/27/07, signed and sealed by Terrence E. Wolfe, P.E.

C. CALCULATIONS:

1. Calculations titled "Whirlwind steel Buildings Super Span X Panel", dated February 19, 2008, pages 1 through 5 of 5, prepared by Chander P. Nangia, P.E., signed and sealed by Chander P. Nangia, P.E., on February 19, 2008.

D. QUALITY ASSURANCE

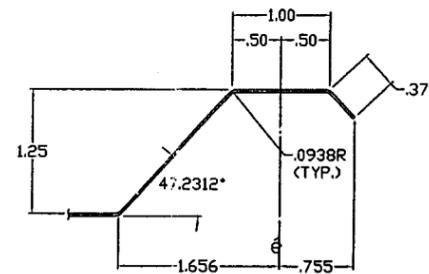
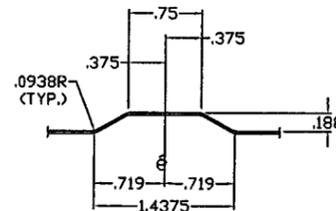
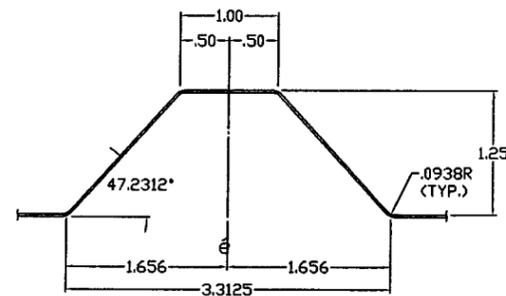
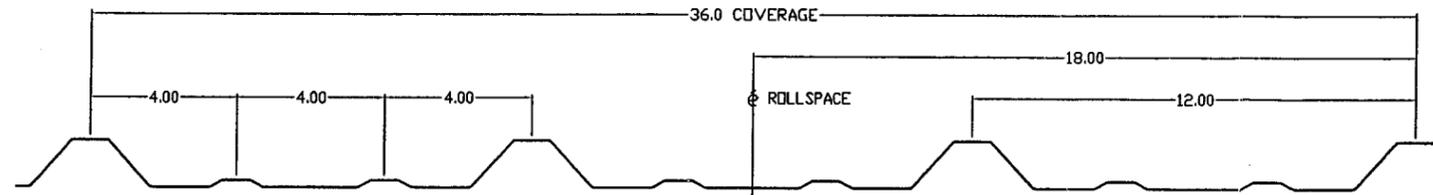
1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS:

1. Tensile Test Report No. T304-07, prepared by West Penn Material Evaluation, dated August 20, 2007, signed by T. Anlt.



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-0310.10
Expiration Date: 02/04/2014
Approval Date: 02/04/2009



PANEL PROPERTIES						
PANEL GAGE	PAINTED PANEL THICKNESS	YIELD STRENGTH*	TENSILE STRENGTH*	ELONGATION*	STEEL COATING*	PAINT COATINGS
24	0.024"	50 KSI	65 KSI	26.5	AZ 55	KYNAR 500
*CONFORM TO ASTM A792 STRUCTURAL QUALITY GRADE 50						

Approved as complying with the Florida Building Code
 Date: 02/04/2009
 NOA# 08-0310-10
 Miami Dade Product Control
 Division
 By: *Helmut A. Weber*

- NOTES:**
- THE 24 GAGE SUPERSPAN ROOF PANELS SHALL BE USED FOR ROOF CONSTRUCTION ONLY. THE ACTUAL ROOF PROJECT SHALL BE CONSTRUCTED USING THE SAME DETAILS SHOWN ON THESE DRAWINGS INCLUDING:
 - DETAILS, ALL PANEL MATERIAL CHARACTERISTICS AND SECTION WITH DIMENSION AND THICKNESS
 - ERECTION DETAILS INCLUDING ALL CONNECTION FASTENERS WITH SIZE AND LOCATION.
 - PANEL MAXIMUM SPAN AND PRESSURE FOR THE FIELD, PERIMETERS AND CORNERS BASED ON PANEL ALLOWABLES SHOWN BELOW.
 - THE MAXIMUM ALLOWABLE SPANS AND UPLIFT PRESSURES FOR THE SUPERSPAN STEEL ROOF PANEL IN THE ROOF'S FIELD. PERIMETER AND THE CORNER ZONES SHALL BE BASED ON THE FOLLOWING PANEL ALLOWABLES (USE SMALLEST SPAN FOR THE GIVEN PRESSURE):
 - MAXIMUM ALLOWABLE BENDING MOMENT OF THE PANEL AT SUPPORTS = 114.22 FT-LBS.
 - MAXIMUM ALLOWABLE BENDING MOMENT OF THE PANEL BETWEEN SUPPORTS = 82.33 FT-LBS.
 - EI VALUE OF PANEL = 1,160,547.0 LBS-IN²
 - MAXIMUM ALLOWABLE DEFLECTION OR ROOF PANEL = L/240
 - MAXIMUM PANEL INTERIOR SUPPORT REACTION = 198.00 LBS.
 - MAXIMUM PANEL EXTERIOR SUPPORT REACTION = 83.83 LBS.
 - ALL PANEL SUBMEMBERS SHALL BE MINIMUM 16 GAGE (.056"). THEY ARE NOT PART OF THIS APPROVAL AND THEY SHALL BE REVIEWED STRUCTURALLY BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT FOR EACH JOB.
 - MAXIMUM ALLOWABLE PANEL SPAN = 5'-0".

STRUCTURAL ONLY

PANEL PROPERTIES



MEMBER SCREW FOR PANEL SUPPORTS

12-14 x 1 1/4" ZINC HEX HEAD "HTZ" #2 PT. WITH 0.58" O.D. SEAL INTEGRAL WASHER, BY BUILDEX



STITCH SCREW FOR PANEL SIDE LAPS

1/4-14 x 7/8" ZINC HEX HEAD "HTZ" WITH 0.58" O.D. SEAL INTEGRAL WASHER, BY BUILDEX

SUPER SPAN INSIDE(CS29R) AND OUTSIDE(CS28R) CLOSURES BY GUARDIAN



1" x 3/32" BUTYL TAPE



7/8" x 3/16" BUTYL TAPE



2 1/2" x 3/16" TRI-BEAD BUTYL TAPE

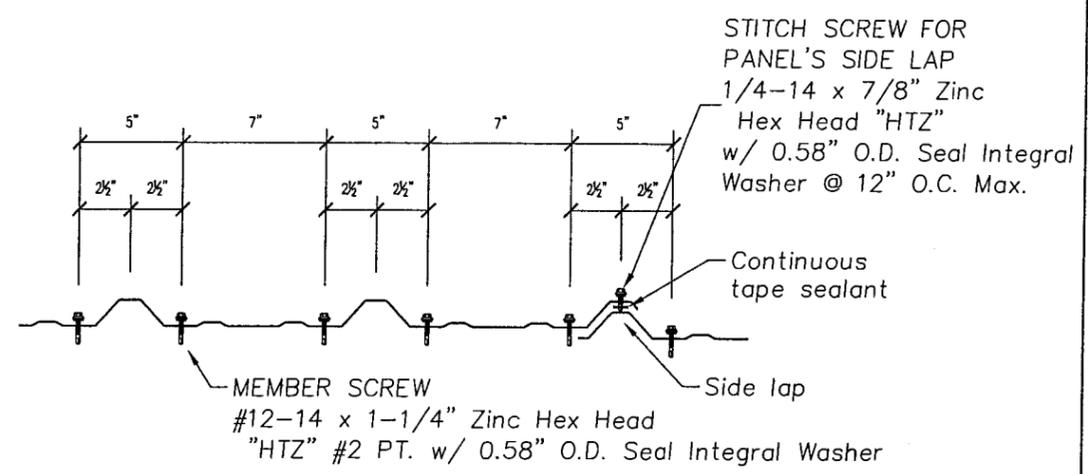
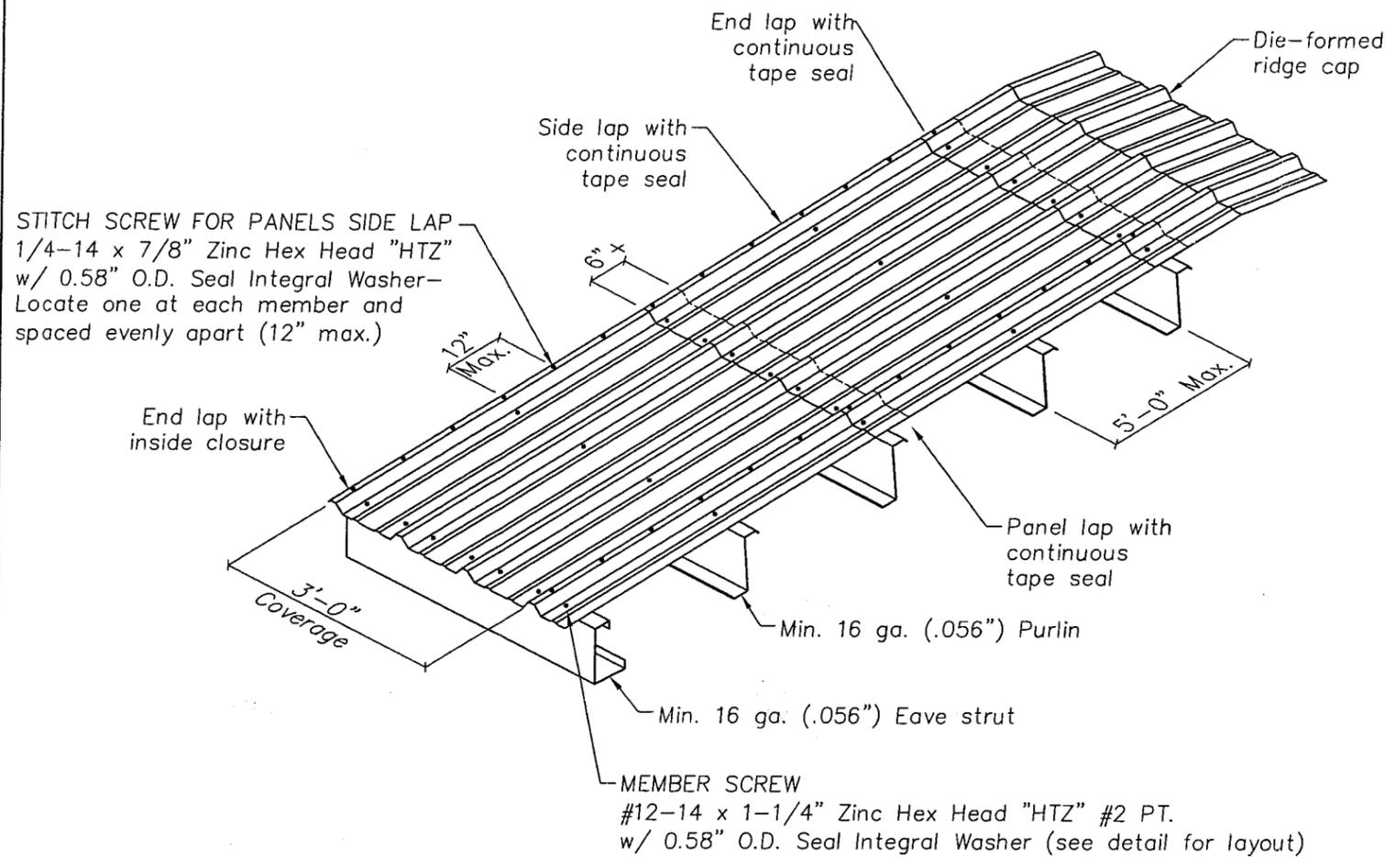


SM5522 ACRYL-R ACRYLIC SEALANT

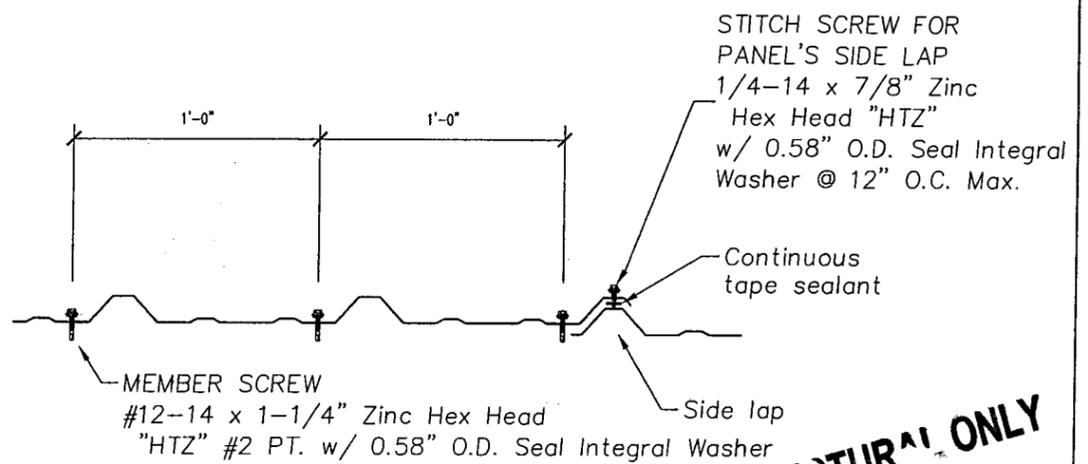
CHANDER P. NANGIA, P.E.
 7423 HOLLOW RIDGE DR.
 HOUSTON, TX 77095
 FLORIDA PE # 21938

This drawing was produced by and/or under the direct supervision of *Chander P. Nangia*

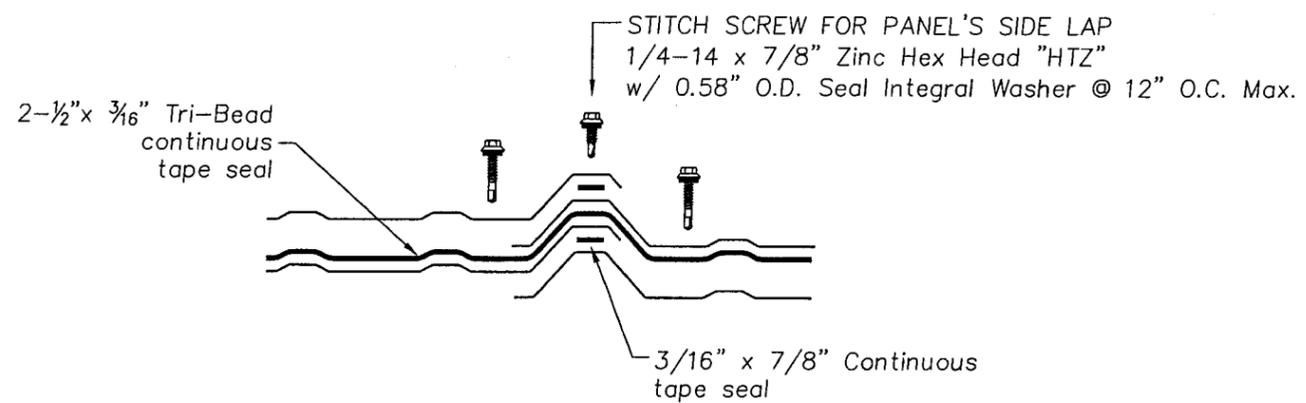
MANUFACTURING ENGINEER	TERRENCE E. WOLFE, P.E.	
FLORIDA REGISTRATION NO.	44923	
WHIRLWIND BUILDING SYSTEMS SUPER SPAN X 24 GA.		
REL. BY	DESCRIPTION	DATE
BU	DADE COUNTY SUBMITAL	11-28-07
PROJECT	DADE COUNTY PRODUCT APPROVAL	
SHEET TITLE	SUPER SPAN X 24 GA. DETAILS	DATE: 11-28-07
LOCATION	DADE COUNTY, FLORIDA	SCALE: N.T.S.
		DRAWING NUMBER: 14043107
		SHEET NUMBER: 1 of 3



DETAIL AT END LAP AND PANEL LAP



DETAIL AT REMAINING SUPPORTS @ 5'-0" O.C.



TAPE SEALANT AT END LAP AND PANEL LAP

Approved as complying with the Florida Building Code
 Date 02/04/2009
 NOAA 08-0310-10
 Miami Dade Product Control Division
 By *Helmy A. M. Al...*

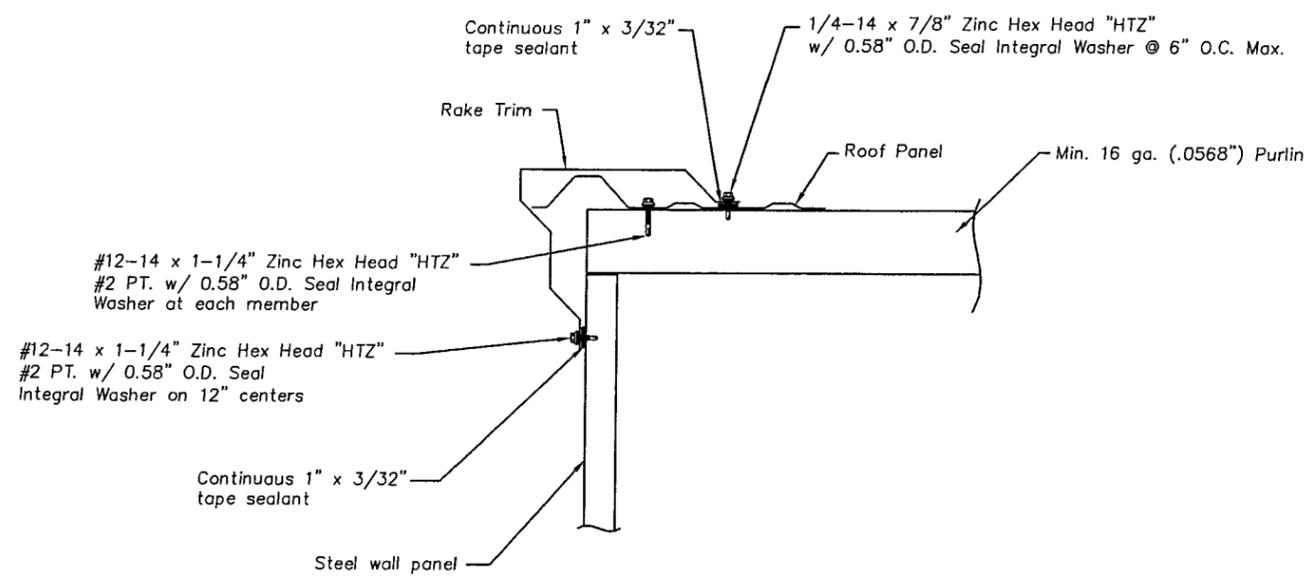
CHANDER P. NANGIA P.E.
 7423 HOLLOW RIDGE DR.
 HOUSTON, TX 77095
 FLORIDA PE # 21938

This drawing was produced by and/or under my direct supervision *Chander P. Nangia*

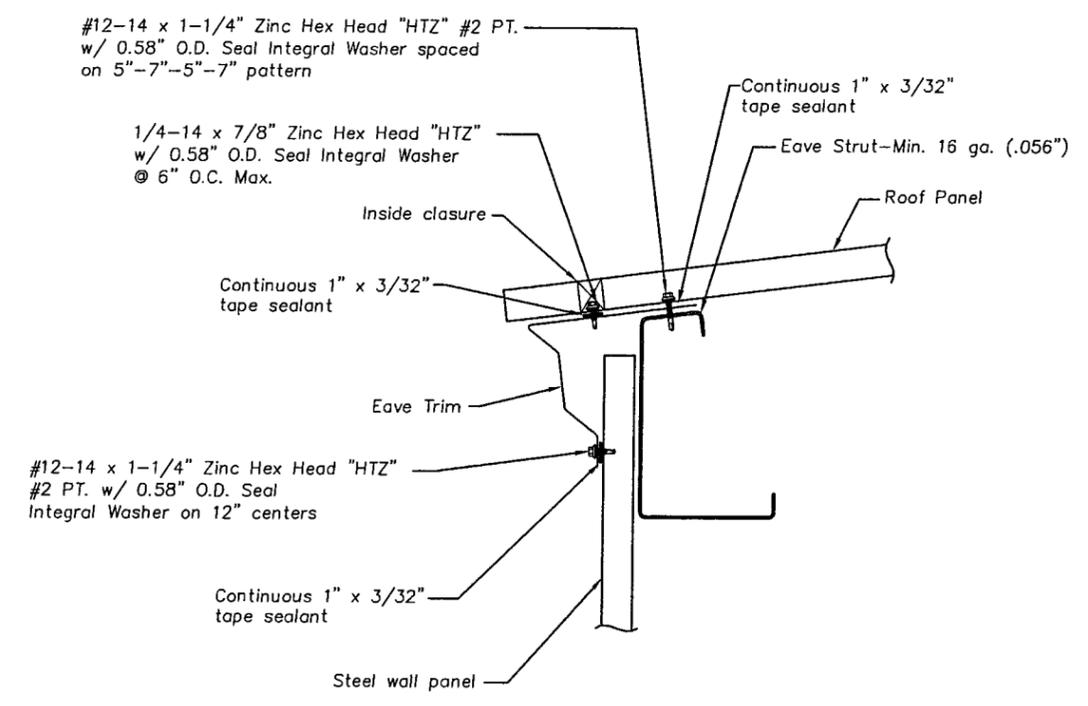
- Notes:**
1. All end laps must be a minimum of 6".
 2. Metal shavings must be swept from the roof each day during erection to prevent surface rusting.
 3. Tape sealant must be applied with no gaps or breaks.
 4. Member screws are used to attach the panel to the structurals. Stitch screws are used at the panel to panel attachments. These fasteners may be self-drilling or self-tapping.

MANUFACTURING ENGINEER	TERRENCE E. WOLFE, P.E.		
FLORIDA REGISTRATION NO.	44923		
WHIRLWIND BUILDING SYSTEMS SUPER SPAN X 24 GA.			
PROJECT	REL	BY	DATE
		BJ	11-28-07
SHEET TITLE	DADE COUNTY SUBMITAL		11-28-07
	DADE COUNTY PRODUCT APPROVAL		
LOCATION	DADE COUNTY, FLORIDA	SCALE	N.T.S.
	PROJECT NUMBER	14043107	SHEET NUMBER
			2 of 3

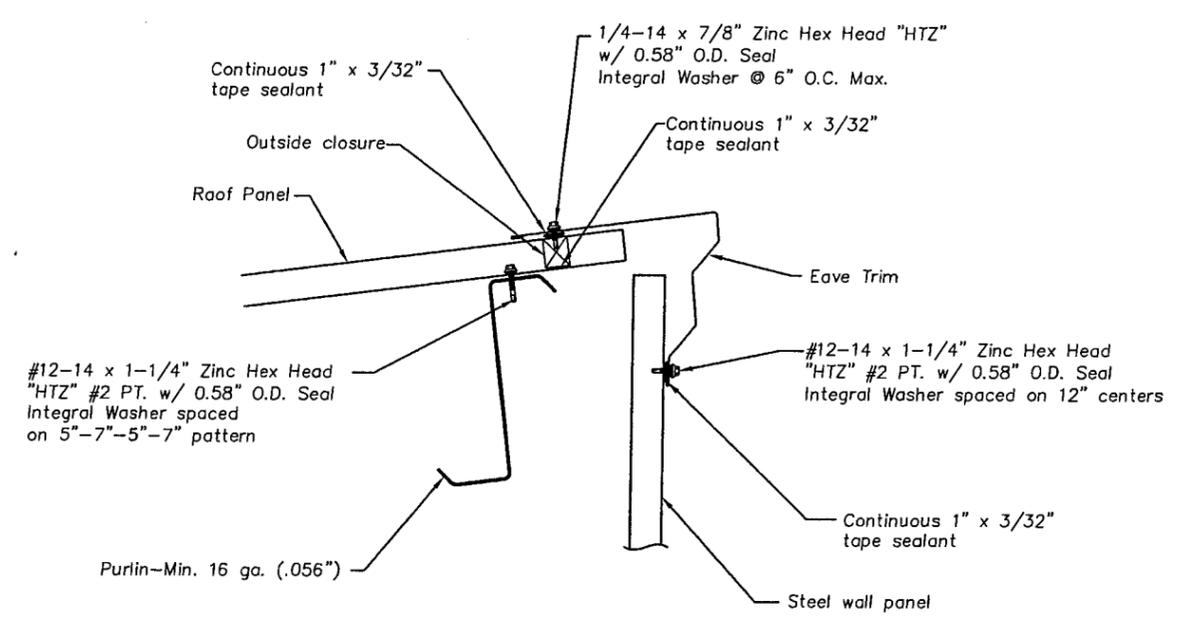




RAKE DETAIL



EAVE DETAIL



HIGH EAVE DETAIL

STRUCTURAL ONLY
MECHANICAL ONLY

Approved as complying with the Florida Building Code
 Date 02/04/2009
 NOA# 08-0310-10
 Miami Dade Product Control Division
 By Helmy A. Mabe

CHANDER P. NANGIA, P.E.
 7423 HOLLOW RIDGE DR.
 HOUSTON, TX 77095
 FLORIDA PE # 21938

Chander P. Nangia

This drawing was produced by and/or under my direct supervision

NOV 04 2008

MANUFACTURING ENGINEER		TERRENCE E. WOLFE, P.E.	
FLORIDA REGISTRATION NO.		44923	
WHIRLWIND BUILDING SYSTEMS SUPER SPAN X 24 GA.			
WHIRLWIND BUILDING SYSTEMS <small>P.O. BOX 75280 - 8234 HANSEN RD. HOUSTON, TX 77254-5280 - (713) 948-4600</small>	REL	BY	DATE
		BJ	11-28-07
PROJECT	DADE COUNTY PRODUCT APPROVAL		
SHEET TITLE	SUPER SPAN X 24 GA. DETAILS		
LOCATION	DADE COUNTY, FLORIDA		
DRWN BY:	CHKD BY:	DATE:	11-28-07
		SCALE:	N.T.S.
PROJECT NUMBER	DRAWING NUMBER	SHEET NUMBER	
	14043107	3 of 3	