

DATE 04/03/2008

Columbia County Building Permit
This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026900

APPLICANT WILLIAM SCOTT PHONE 365-1222
ADDRESS 780 SW RIDGE ST LAKE CITY FL 32024
OWNER SHAHRAN HESHMAT PHONE 752-7674
ADDRESS 317 SE LLEWELYN AVE LAKE CITY FL 32025
CONTRACTOR WILLIAM SCOTT PHONE 365-1222
LOCATION OF PROPERTY BAYA EAST TO LLEWELYN AVE, CORNER OF BAYA AND LLEWELYN
ON LEFT
TYPE DEVELOPMENT ROOF RENOVATION ESTIMATED COST OF CONSTRUCTION 8600.00
HEATED FLOOR AREA TOTAL AREA HEIGHT STORIES 1
FOUNDATION WALLS ROOF PITCH FLOOR
LAND USE & ZONING INDUSTRIAL MAX. HEIGHT
Minimum Set Back Requirments: STREET-FRONT REAR SIDE
NO. EX.D.U. FLOOD ZONE N/A DEVELOPMENT PERMIT NO.

PARCEL ID 34-3S-17-06974-000 SUBDIVISION
LOT BLOCK PHASE UNIT TOTAL ACRES

CBC1250835
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING X08-091 BK JH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: NOC ON FILE, RENOVATION OF ROOF

Check # or Cash 3589

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by Foundation date/app. by Monolithic date/app. by
Under slab rough-in plumbing date/app. by Slab date/app. by Sheathing/Nailing date/app. by
Framing date/app. by Rough-in plumbing above slab and below wood floor date/app. by
Electrical rough-in date/app. by Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by
Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by
M/H tie downs, blocking, electricity and plumbing date/app. by Pool date/app. by
Reconnection date/app. by Pump pole date/app. by Utility Pole date/app. by
M/H Pole date/app. by Travel Trailer date/app. by Re-roof date/app. by

BUILDING PERMIT FEE \$ 45.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ CULVERT FEE \$ TOTAL FEE 95.00
INSPECTORS OFFICE CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGRESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Columbia County Building Permit Application

For Office Use Only Application # 0803, 48 Date Received 3/25 By JW Permit # 26900
 Zoning Official BLK Date 01.04.08 Flood Zone X Land Use I Zoning I
 FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner OKWH Date 3-26-08
 Comments _____
☒ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☐ State Road Info ☐ Parent Parcel # _____
☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter
 IMPACT FEES: EMS _____ Fire _____ Corr _____ Road/Code _____
 School _____ = TOTAL _____

Septic Permit No. 2-091 Fax 386-755-2873
 Name Authorized Person Signing Permit William Scott Phone 386-365-1222
 Address 780 SW Ridge St Lake City FL 32024
 Owners Name Shahran Heshmat Phone 386-752-7674
 911 Address 317 Llewellyn Ave Lake City FL 32025
 Contractors Name William Scott Construction Inc Phone 386-365-1222
 Address 780 SW Ridge St Lake City 32024
 Fee Simple Owner Name & Address Shahran Heshmat
 Bonding Co. Name & Address N/A
 Architect/Engineer Name & Address GTC Design Group
 Mortgage Lenders Name & Address N/A
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress Energy
 Property ID Number R-34-35-1706974000 Estimated Cost of Construction 8600.00
 Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____
 Driving Directions BAYA EAST to Llewellyn Ave Turn LF
PROPERTY ON RT = CORNER OF BAYA + Llewellyn Ave

Number of Existing Dwellings on Property 1

Construction of Roof Renovation Total Acreage 1/2 Lot Size _____
 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 12'-6"
 Actual Distance of Structure from Property Lines - Front 80'-0 Side 10'-0 Side 28'-0 Rear 75'-0
 Number of Stories 1 Heated Floor Area 3,000 Total Floor Area 3,000 Roof Pitch FLAT

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Shobani Heshmat
Owners Signature

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

Willie L. Smith
Contractor's Signature (Permitee)

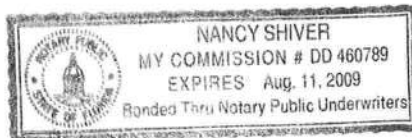
Contractor's License Number CRC 1250835
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 25 day of March 2008.

Personally known *Y* or Produced Identification _____

Nancy Shiver
State of Florida Notary Signature (For the Contractor)
Nancy Shiver

SEAL:



NOTICE OF COMMENCEMENT

Tax Parcel Identification Number R- 34-3S-17-06974-000

County Clerk's Office Stamp or Seal

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description): ATTACHED A
a) Street (job) Address: _____
2. General description of improvements: Roof FRAMING
3. Owner Information
a) Name and address: Shahram Heshmat 317-Llewellyn Ave Lake City 32055
b) Name and address of fee simple titleholder (if other than owner) _____
c) Interest in property _____
4. Contractor Information
a) Name and address: William Scott 780 SW Ridge St Lake City FL 32024
b) Telephone No.: 386-365-1222 Fax No. (Opt.): 386-755-2873
5. Surety Information
a) Name and address: N/A
b) Amount of Bond: _____
c) Telephone No.: _____ Fax No. (Opt.): _____
6. Lender
a) Name and address: N/A
b) Phone No. _____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
a) Name and address: _____
b) Telephone No.: _____ Fax No. (Opt.): _____
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b).
Florida Statutes:
a) Name and address: William Scott Construction Inc 780-SW Ridge St Lake City FL 32024
b) Telephone No.: 386-365-1222 Fax No. (Opt.): 386-755-2873
9. Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified): _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

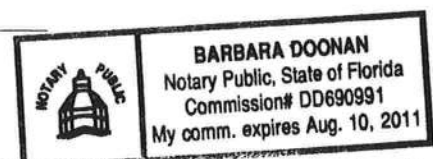
STATE OF FLORIDA
COUNTY OF COLUMBIA

X 10. Shahram
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager
X Shahram Heshmat
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 8th day of March, 2008, by:
Shahram Heshmat as Notary (type of authority, e.g. officer, trustee, attorney)
fact) for Shahram Heshmat (name of party on behalf of whom instrument was executed).

Personally Known _____ OR Produced Identification ✓ Type FLDL

Notary Signature Barbara Doonan Notary Stamp or Seal:



—AND—

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Signature of Natural Person Signing (in line #10 above.)

PRODUCT APPROVAL SPECIFICATION SHEET

Location: 317 Howelyn Lake City FL

Project Name: Shahran Aeshmat

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11. Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments			
3. Roofing Fasteners	<u>SIMPSON</u>	<u>H-3 H-16 HURRICANE TIES</u>	
4. Non-structural Metal Rf	<u>Wheeling Corrugated</u>	<u>METAL ROOFING MATERIAL</u>	<u>FL 5190.3</u>
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other		Wind Turbine	FL 3595-R1
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor	Simpson	TRUSS / RAFTER CONNECTOR	
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection

William Scott

Contractor or Contractor's Authorized Agent Signature

William Scott

Print Name

3-24-08

Date

Location

Permit # (FOR STAFF USE ONLY)

H Seismic & Hurricane Ties

SIMPSON

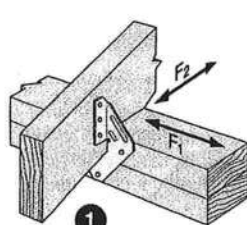
Strong-Tie

These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson for details.

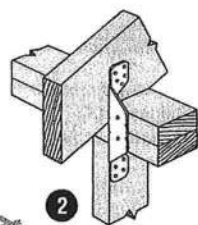
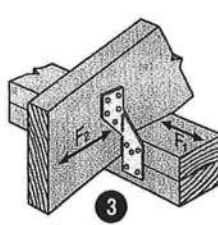
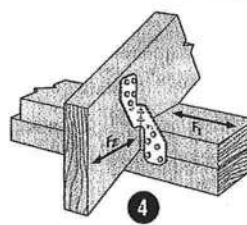
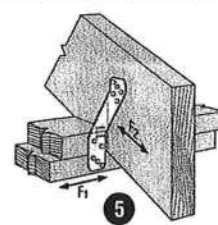
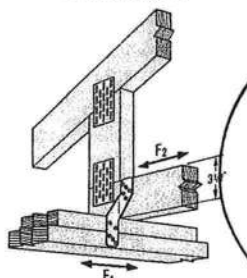
Model No.	Ga	Fasteners			DF/SP Allowable Loads				Uplift Load with 8dx1½ Nails (133 & 160)	SPF/HF Allowable Loads				Uplift Load with 8dx1½ Nails (133 & 160)	Code Ref.
		To Rafters/ Truss	To Plates	To Studs	Uplift		Lateral (133/160)			Uplift		Lateral (133/160)			
					(133)	(160)	F ₁	F ₂		(133)	(160)	F ₁	F ₂		
H1	18	6-8dx1½	4-8d	—	490	585	485	165	455	400	400	415	140	370	2, 40, 82,121, 140
H2	18	5-8d	—	5-8d	335	335	—	—	335	230	230	—	—	230	
H2A	18	5-8dx1½	2-8dx1½	5-8dx1½	575	575	130	55	—	495	495	130	55	—	160
H2.5	18	5-8d	5-8d	—	415	415	150	150	415	365	365	130	130	365	2, 6, 40, 82, 121, 140
H2.5A	18	5-8d	5-8d	—	600	600	110	110	480	520	535	110	110	480	40, 122
H2.5T	18	5-8d	5-8d	—	545	545	135	145	425	545	545	135	145	425	146
H3	18	4-8d	4-8d	—	455	455	125	160	415	320	320	105	140	290	2, 40, 82, 121, 140
H4	20	4-8d	4-8d	—	360	360	165	160	360	235	235	140	135	235	2, 40, 121, 140
H5	18	4-8d	4-8d	—	455	465	115	200	455	265	265	100	170	265	2, 40, 82, 121, 140
H6	16	—	8-8d	8-8d	915	950	—	—	—	785	820	—	—	—	5, 41, 121, 140
H7Z	16	4-8d	2-8d	8-8d	930	985	400	—	—	800	845	345	—	—	125
H8	18	5-10dx1½	5-10dx1½	—	620	745	75	—	—	530	565	75	—	—	9, 121, 140
H10	18	8-8dx1½	8-8dx1½	—	905	990	585	525	—	780	850	505	450	—	160
H10A	18	9-10dx1½	9-10dx1½	—	1140 ^c	1140 ^b	590	285	—	1015	1015	505	285	—	149
H10S ^{a,b}	18	8-8dx1½	8-8dx1½ ^a	8-8d	1010	1010	545	215	550	870	870	470	185	475	6, 121, 140
H10-2	18	6-10d	6-10d	—	760	760	455	395	—	655	655	390	340	—	170
H11Z	18	6-16dx2½	6-16dx2½	—	830	830	525	760	—	715	715	450	655	—	125
H14	18	① 12-8dx1½	13-8d	—	1350 ^c	1350 ^c	515	265	—	1050	1050	480	245	—	
		② 12-8dx1½	15-8d	—	1350 ^c	1350 ^c	515	265	—	1050	1050	480	245	—	

1. Loads have been increased 33% and 60% for earthquake or wind loading with no further increase allowed; reduce where other loads govern.
2. Allowable loads are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on each side of the joist and on the same side of the plate (exception: connectors installed such that nails on opposite sides don't interfere).
3. Allowable DF/SP uplift load for stud to bottom plate installation is 400 lbs. (H2.5); 390 lbs. (H2.5A); 360 lbs. (H4) and 310 lbs. (H8). For SPF/HF values multiply these values by 0.86.
4. Allowable loads in the F₁ direction are not intended to replace diaphragm boundary members or prevent cross grain bending of the truss or rafter members. Additional shear transfer elements shall be considered where there may be effects of cross grain bending or tension.

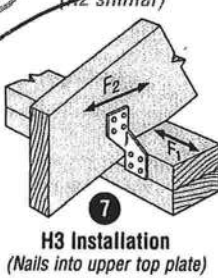
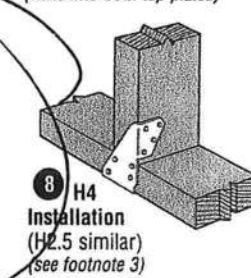
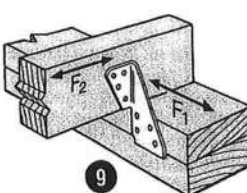
5. Hurricane Ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable (see instructions to the installer notes on page 14). For uplift Continuous Load Path, connections in the same area (i.e. truss to plate connector and plate to stud connector) must be on same side of the wall.
6. Southern Pine allowable uplift loads for H10A = 1340 lbs. and for H14 = 1465 lbs.
7. Refer to technical bulletin T-HTIEBEARING for H1, H10, H10S, H10-2, H11Z, H14 allowable bearing enhancement loads (see page 187 for details).
8. H10S can have the stud offset a maximum of 1" from rafter (center to center) for a reduced uplift of 890 lbs. (DF/SP), and 765 lbs. (SPF).
9. H10S nails to plates are optional for uplift but required for lateral loads.
10. NAILS: 16dx2½" = 0.162" dia. x 2½" long, 10d = 0.148" dia. x 3" long, 8dx1½" = 0.131" dia. x 1½" long. See page 16-17 for other nail sizes and information.



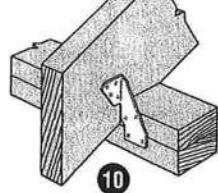
H1 Installation

H2A Installation
(H2 similar)H2.5 Installation
(Nails into both top plates)H2.5A Installation
(Nails into both top plates)H2.5T Installation
(Nails into both top plates)

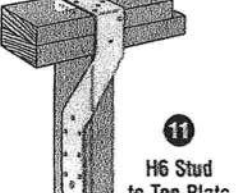
H2.5T Installation

H3 Installation
(Nails into upper top plate)H4 Installation
(H2.5 similar)
(see footnote 3)

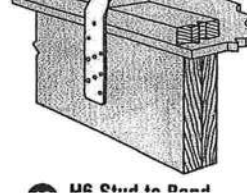
H6



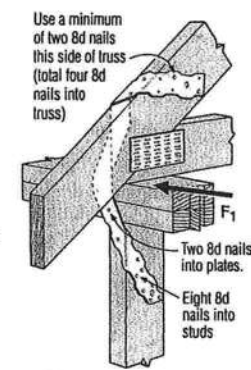
H6



H6



H6 Stud to Top Plate

Two 8d nails into plates.
Eight 8d nails into studs.

hurricane Tie series features various configurations and seismic ties for trusses and rafters.

OS provides a high capacity connection from r to wall. Also suitable for wood-to-wood ties (see page 156).

A9 is designed to retrofit roof truss/rafters for block on. The HM9 hurricane tie provides high uplift and capacity using Simpson concrete fasteners.

esloped 5:12 seat of the H16 provides for a tight fit and deflection. The strap length provides for various heights up to a maximum of 13½". Minimum heel H16 series is 4".

A1 develops high uplift and lateral loads at a heel height. The side tabs act as a locator in the the four embedded hooks allow for higher loads tively shallow embedment.

See table.

alvanized; see Corrosion Information, page 10-11.

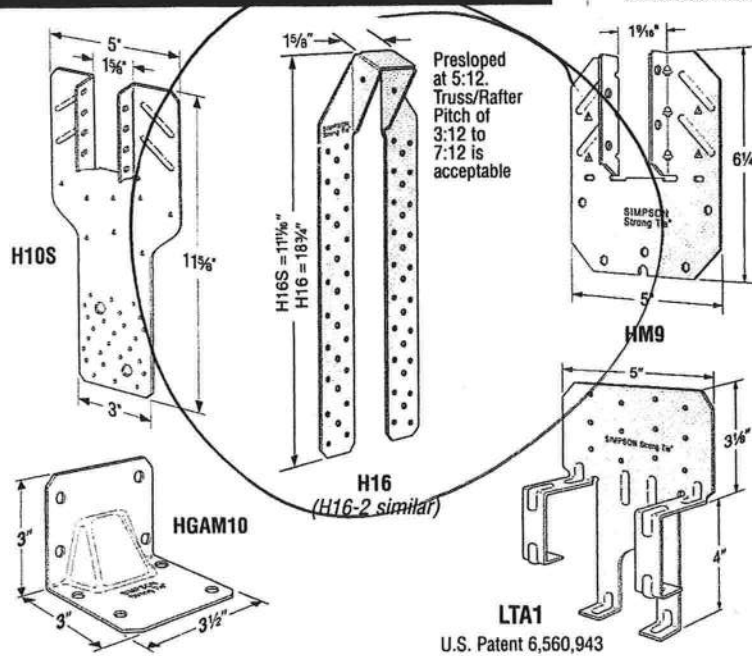
UTION: • Use all specified fasteners. See General Notes.

WM10 can be installed into grouted concrete block. s are provided.

ricane Ties do not replace solid blocking.

ch to grouted concrete block with a minimum #5 rebar horizontal in the course.

see page 12 for Code Reference Key Chart.



U.S. Patent 6,560,943

el	Ga	W	L	Fasteners			DF/SP Allowable Loads ^{1,2}				SPF Allowable Loads ^{1,2}				Code Ref.
				To Rafters/ Truss	To CMU	To Concrete	Uplift ⁴		Lateral (133/160)		Uplift ⁴		Lateral (133/160)		
							(133)	(160)	F ₁	F ₂	(133)	(160)	F ₁	F ₂	
	18	1 ⁹ / ₁₆	6 ¹ / ₄	4-SDS ¹ / ₄ x1 ¹ / ₂	5- ¹ / ₄ x2 ¹ / ₄ Titen	5- ¹ / ₄ x1 ³ / ₄ Titen	595	595	425	200	595	595	425	200	125
CTA ^{3,4}	14	—	—	4-SDS ¹ / ₄ x1 ¹ / ₂	4- ¹ / ₄ x2 ³ / ₄ Titen	4- ¹ / ₄ x1 ³ / ₄ Titen	850	850	1005	1105 ⁵	610	610	725	795 ⁵	125, 140
	18	1 ⁵ / ₈	11 ⁵ / ₈	8-8dx1 ¹ / ₂	2- ³ / ₈ x4 Titen HD	2- ³ / ₈ x4 Titen HD	1025	1065	—	—	880	915	—	—	149
	18	—	—	12-10dx1 ¹ / ₂	Embed	Embed	1420	1420	485	1425	1220	1220	415	1225	
	18	1 ⁵ / ₈	18 ³ / ₄	2-10dx1 ¹ / ₂	6- ¹ / ₄ x2 ¹ / ₄ Titen	6- ¹ / ₄ x1 ³ / ₄ Titen	1470	1470	—	—	1265	1265	—	—	125
	18	1 ⁵ / ₈	11 ¹ / ₁₆	2-10dx1 ¹ / ₂	6- ¹ / ₄ x2 ¹ / ₄ Titen	6- ¹ / ₄ x1 ³ / ₄ Titen	1470	1470	—	—	1265	1265	—	—	
	18	3 ¹ / ₄	18 ³ / ₄	2-10dx1 ¹ / ₂	6- ¹ / ₄ x2 ¹ / ₄ Titen	6- ¹ / ₄ x1 ³ / ₄ Titen	1470	1470	—	—	1265	1265	—	—	
	18	3 ¹ / ₄	11 ¹ / ₁₆	2-10dx1 ¹ / ₂	6- ¹ / ₄ x2 ¹ / ₄ Titen	6- ¹ / ₄ x1 ³ / ₄ Titen	1470	1470	—	—	1265	1265	—	—	

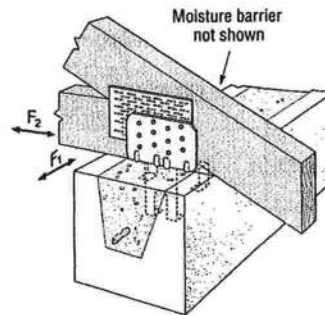
ve been increased 33% and 60% for earthquake or wind loading with no further allowed; reduce where other loads govern.
a loads are for one anchor. A minimum rafter thickness of 2 1/2" must be used when anchors are installed on each side of the joist and on the same side of the plate.
)KT and HGAM10KTA come with SDS and 2 1/4" and 2 3/4" Titen® screws ely. (1 3/4" Titen screws for concrete installations sold separately.)
n edge distance 1 1/2" using Titen® screws.
3 139 for Titen screw information.

owable loads were determined using test ultimate/3 or fastener calculation values. s shall be installed such that the Titen and Titen HD® screws are s to the weather.

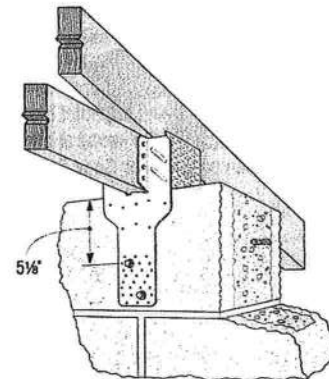
0 F₂ loads are for forces into the connector. See Illustration 2 for loads m the connector.

10dx1 1/2" = 0.148" dia. x 1 1/2" long, 8dx1 1/2" = 0.131" dia. x 1 1/2" long.

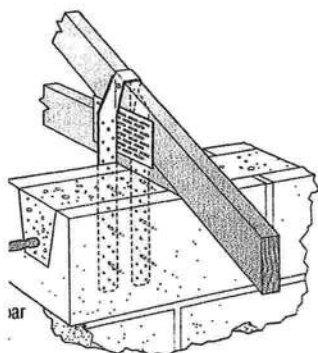
3 16-17 for other nail sizes and information.



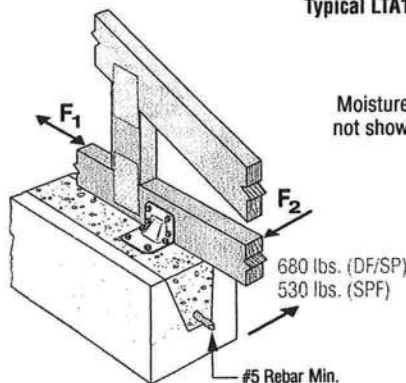
Typical LTA1 Installation



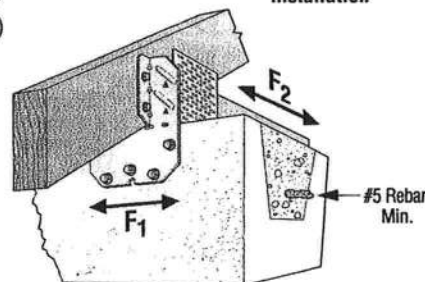
Typical H10S Installation



1 H16S Installed into Masonry



2 HGAM10 Installed into Masonry



3 HM9 Attaching Truss to Masonry



C-BUCK Engineering

Specialty Structural Engineering

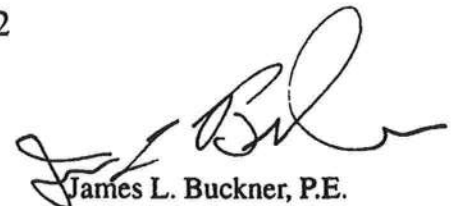
Certificate of Authorization # 8064

Evaluation Report
of
Wheeling Corrugating Company
"Centurydrain"
Metal Roof Assembly
for
Florida Product Approval
FL 5190.3
Florida Building Code 2004
Method: 1 - D
Category: Roofing
Sub - Category: Non - Structural Metal Roofing

Product: *Centurydrain Panel*
Material: *Steel*
Panel Thickness: *29 Gauge Minimum*
Panel Width: *36" Maximum (Net Coverage)*
Support Type: *Wood Deck*

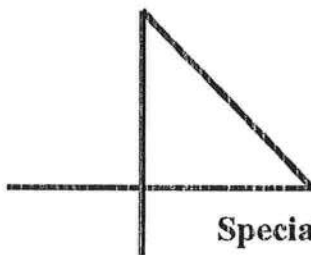
Prepared for:
Wheeling Corrugating Company
1134 Market Street
Wheeling, WV 26003

Prepared by:
James L. Buckner, P.E.
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Engineer Assistant: Gil Samson
Report No. 05-279-CD-36-S9W
Date: 8 / 3 / 05



James L. Buckner, P.E.
Florida P.E. # 31242
8/30/05

Contents:
Evaluation Report Pages 1 - 3
Installation Method Pages 4 - 5



C-BUCK Engineering

Specialty Structural Engineering

FL #: FL 5190.3
Date: 8/3/05
Report No.: 05-279-CD-36-S9W
Page 2 of 5

Certificate of Authorization # 8064

Manufacturer: Wheeling Corrugating Company

Product Name: Centurydrain Panel

Panel Type: Steel, minimum 29 gauge, minimum yield strength 80 ksi

Panel Material Standards: Material shall comply with Table 1507.4.3

Panel Width(s): 36" Maximum (Net Coverage Width)

Support Type: Wood Deck
(Design of support system is not included in this evaluation)

Support Description: Plywood – 15/32" or greater, or wood plank per Section 2308.10.8

Slope Range: 3 : 12 or greater

Design Uplift Pressure: 52.5 psf (Safety Factor of 2 : 1)

Attachment To Support: Panels shall be through-fastened to the deck with minimum #9 x minimum penetration through deck 3/16", sharp-point, hex-washer head, corrosion resistant, wood screws, per ANSI/ASME B18.6.4 and sealing washer.

Underlayment: Minimum underlayment shall be per Section 1507.4.5

Fire Classification: Fire Classification is outside the scope of Rule 9B-72, and is therefore not included in this evaluation. Additional approved substrates may be added for Fire Classification purposes.

Installation: Install the "Centurydrain Panel" to the deck with screw rows spaced 3" from all ends and maximum 12" o.c. thereafter, along the length of the panel. Within rows, screws shall be spaced maximum 9" o.c. across the width of the panel, located on one side of each major corrugation, except at panel overlap locations, where fasteners shall be spaced 9" o.c. and located on both sides of the major corrugation. Install system in compliance with the attached installation method.

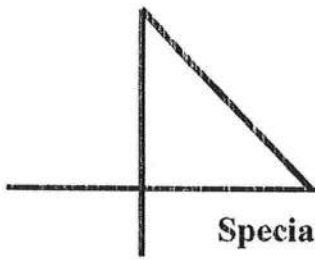


C-BUCK Engineering

Specialty Structural Engineering

Certificate of Authorization # 8064

- Performance Standards:** Roof assembly tested in accordance with **UL580-94, Rev. 1998 Uplift Resistance Standard.**
- Code Compliance:** The product described herein has demonstrated compliance with the **Florida Building Code 2004, Section 1507.4.**
- Evaluation Report Scope:** This product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code, as related to Rule 9B-72.
- System Limitations:** The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone.
- Referenced Data:**
1. Certification of Independence
 2. Quality Assurance
Underwriters Laboratories, Inc. – Q.A. System ID: 1743
 3. UL580 Test
Underwriter's Laboratories, Inc.
Construction #584 (File R20684), Date: 11/12/04



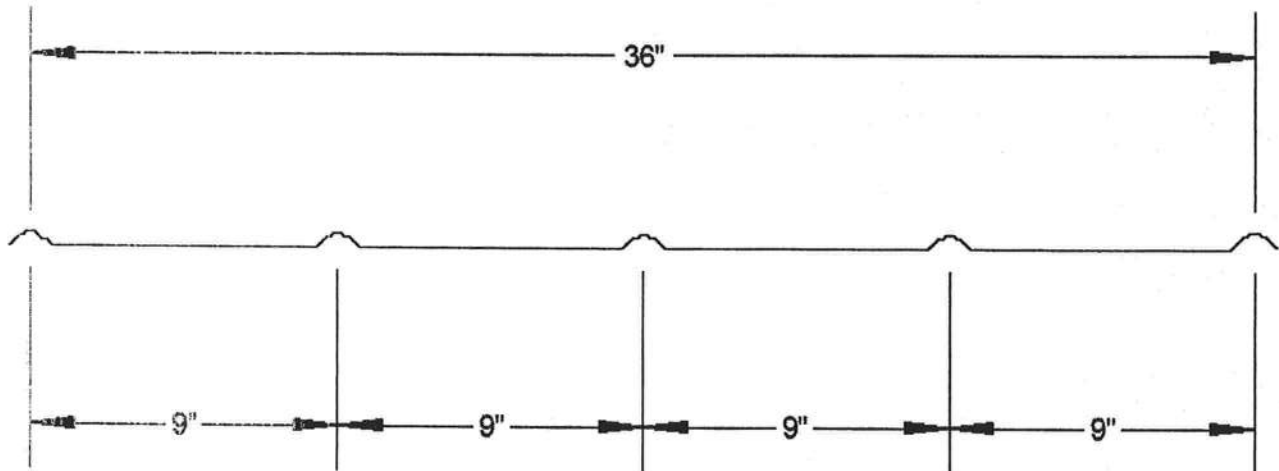
C-BUCK Engineering

Specialty Structural Engineering

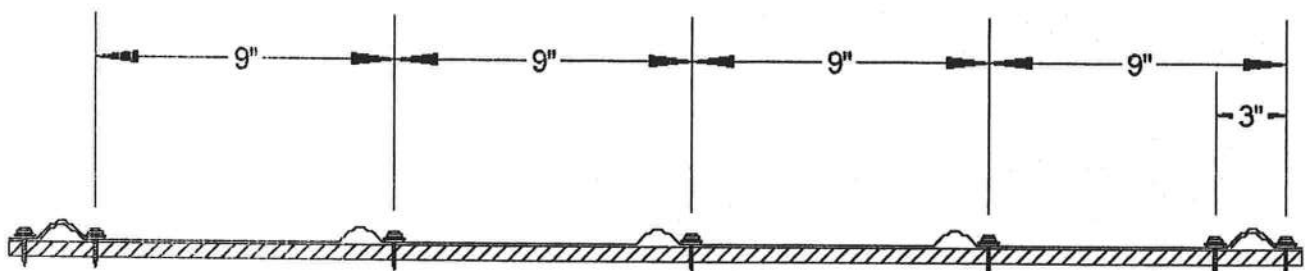
FL #: FL 5190.3
Date: 8/3/05
Report No.: 05-279-CD-36-S9W
Page 4 of 5

Certificate of Authorization # 8064

Installation Method Wheeling Corrugating Company "Centurydrain" Attached to Wood Deck



Panel Profile



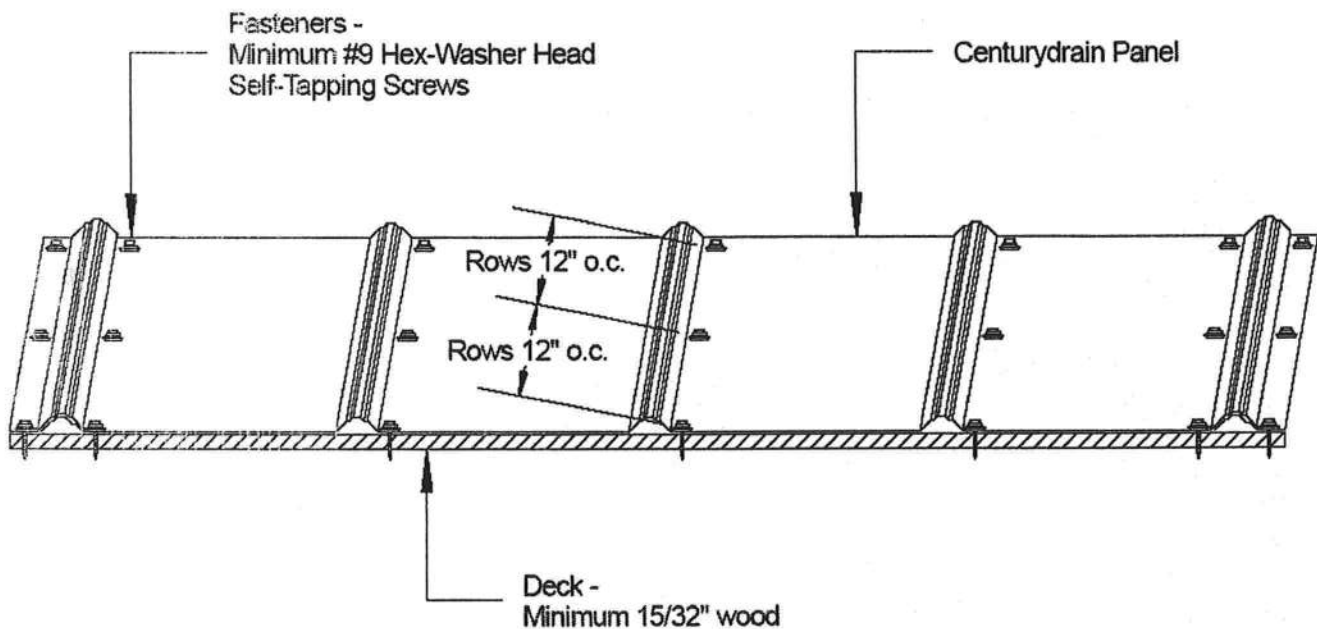
Fastener Schedule Across Width

C-BUCK Engineering

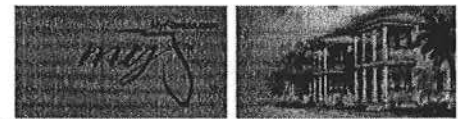
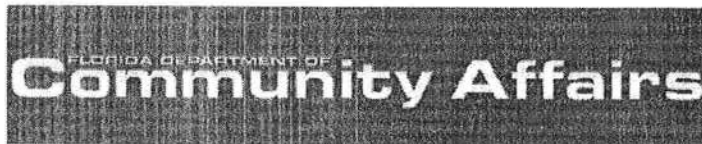
Specialty Structural Engineering

Certificate of Authorization # 8064

Installation Method (Continued) Wheeling Corrugating Company "Centurydrain" Attached to Wood Deck



Assembly Isometric View



[DCA HOME](#) | [ABOUT DCA](#) | [DCA PROGRAMS](#) | [CONTACT DCA](#)

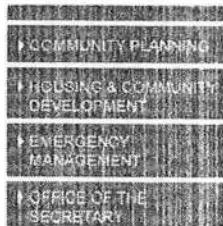
[BCIS Home](#) | [Log In](#) | [Hot Topics](#) | [Submit Surcharge](#) | [Stats & Facts](#) | [Publications](#) | [FBC Staff](#) | [BCIS Site Map](#) | [Links](#) | [Search](#)



Product Approval

USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**



FL # FL5190
 Application Type New
 Code Version 2004
 Application Status Approved
 Comments
 Archived ☐

Product Manufacturer Wheeling Corrugating Company
 Address/Phone/Email 1134 Market Street
 Wheeling, WV 26003

Authorized Signature James L. Buckner, P.E. @ C-Buck, Inc.
 jimmy@cbuckinc.net

Technical Representative David W. Boltz
 Address/Phone/Email 1134 Market Street
 Wheeling, WV 26003
 boltzdw@wpsc.com

Quality Assurance Representative
 Address/Phone/Email

Category Roofing
 Subcategory Metal Roofing

Compliance Method Evaluation Report from a Florida Registered Architect or a
 Licensed Florida Professional Engineer
☒ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report James L. Buckner
 Florida License PE-31242
 Quality Assurance Entity Underwriters Laboratories Inc.
 Quality Assurance Contract Expiration Date
 Validated By Warren W. Schaefer, P.E.
☐ Validation Checklist - Hardcopy Received

Certificate of Independence

Referenced Standard and Year (of Standard)	<u>Standard</u>	<u>Year</u>
	UL 580 with 1998 Revisions	1994

Equivalence of Product Standards
Certified By

Sections from the Code

1507.4

Product Approval Method

Method 1 Option D

Date Submitted

09/01/2005

Date Validated

09/23/2005

Date Pending FBC Approval

10/01/2005

Date Approved

10/11/2005

Summary of Products

FL #	Model, Number or Name	Description
5190.1	1- "5-V"	Minimum 29 Gauge Steel, Maximum 24" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -52.5 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports PTID 5190 T 1- 5V 24in 29GaSteelOnWood EVALREPORT.pdf PTID 5190 T 2- 5V 24in 26GaSteelOnWood EVALREPORT.pdf PTID 5190 T 3- CenturyDrain 36in 29GaSteelOnWood EVALREPORT.pdf PTID 5190 T 4- CenturyDrain 36in 26GaSteelOnWood EVALREPORT.pdf PTID 5190 T 5- RPanel 36in 29GaSteelOnWood EVALREPORT.pdf PTID 5190 T 6- RPanel 36in 26GaSteelOnWood EVALREPORT.pdf PTID 5190 T 7- LocSeam 16in 26GaSteelOnWood EVALREPORT.pdf PTID 5190 T 8- LocSeam 12in 26GaSteelOnWood EVALREPORT.pdf PTID 5190 T NS-CertOfIndepAndQA.pdf Created by Independent Third Party:
5190.2	2- "5-V"	Minimum 26 Gauge Steel, Maximum 24" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -90 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
5190.3	3- "Centurydrain"	Minimum 29 Gauge Steel, Maximum 36" Wide Panel Attached to Wood Deck
Limits of Use (See Other)		Installation Instructions

Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -52.5 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
5190.4	4- "Centurydrain"	Minimum 26 Gauge Steel, Maximum 36" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -70 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
5190.5	5- "R-Panel"	Minimum 29 Gauge Steel, Maximum 36" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -52.5 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
5190.6	6- "R-Panel"	Minimum 26 Gauge Steel, Maximum 36" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -87.5 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

Velocity Hurricane Zone. Refer to Evaluation Report.		
5190.7	7- "Loc-Seam"	Minimum 26 Gauge Steel, 12"-16" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -52.5 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
5190.8	8- "Loc-Seam"	Minimum 26 Gauge Steel, Maximum 12" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -70 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

[Back](#)
[Next](#)
[DCA Administration](#)

Department of Community Affairs
 Florida Building Code Online
 Codes and Standards

2555 Shumard Oak Boulevard
 Tallahassee, Florida 32399-2100

(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

© 2000-2005 The State of Florida. All rights reserved. [Copyright and Disclaimer](#)

Product Approval Accepts:





[DCA HOME](#) | [ABOUT DCA](#) | [DCA PROGRAMS](#) | [CONTACT DCA](#)



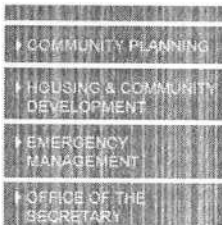
[BCIS Home](#) | [Log In](#) | [Hot Topics](#) | [Submit Surcharge](#) | [Stats & Facts](#) | [Publications](#) | [FBC Staff](#) | [BCIS Site Map](#) | [Links](#) | [Search](#)



Product Approval

USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**



FL # FL5190
 Application Type New
 Code Version 2004
 Application Status Approved
 Comments
 Archived ☐

Product Manufacturer Wheeling Corrugating Company
 Address/Phone/Email 1134 Market Street
 Wheeling, WV 26003

Authorized Signature James L. Buckner, P.E. @ C-Buck, Inc.
 jimmy@cbuckinc.net

Technical Representative David W. Boltz
 Address/Phone/Email 1134 Market Street
 Wheeling, WV 26003
 boltzdw@wpsc.com

Quality Assurance Representative
 Address/Phone/Email

Category Roofing
 Subcategory Metal Roofing

Compliance Method Evaluation Report from a Florida Registered Architect or a
 Licensed Florida Professional Engineer
☒ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report James L. Buckner
 Florida License PE-31242
 Quality Assurance Entity Underwriters Laboratories Inc.
 Quality Assurance Contract Expiration Date
 Validated By Warren W. Schaefer, P.E.
☐ Validation Checklist - Hardcopy Received

Certificate of Independence

Referenced Standard and Year (of Standard) **Standard** **Year**
 UL 580 with 1998 Revisions 1994

Equivalence of Product Standards
Certified By

Sections from the Code

1507.4

Product Approval Method

Method 1 Option D

Date Submitted

09/01/2005

Date Validated

09/23/2005

Date Pending FBC Approval

10/01/2005

Date Approved

10/11/2005

Summary of Products

FL. #	Model, Number or Name	Description
5190.1	1- "5-V"	Minimum 29 Gauge Steel, Maximum 24" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -52.5 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports PTID_5190_T_1- 5V_24in_29GaSteelOnWood_EVALREPORT.pdf PTID_5190_T_2- 5V_24in_26GaSteelOnWood_EVALREPORT.pdf PTID_5190_T_3- CenturyDrain_36in_29GaSteelOnWood_EVALREPORT.pdf PTID_5190_T_4- CenturyDrain_36in_26GaSteelOnWood_EVALREPORT.pdf PTID_5190_T_5- RPanel_36in_29GaSteelOnWood_EVALREPORT.pdf PTID_5190_T_6- RPanel_36in_26GaSteelOnWood_EVALREPORT.pdf PTID_5190_T_7- LocSeam_16in_26GaSteelOnWood_EVALREPORT.pdf PTID_5190_T_8- LocSeam_12in_26GaSteelOnWood_EVALREPORT.pdf PTID_5190_T_NS-CertOfIndepAndQA.pdf Created by Independent Third Party:
5190.2	2- "5-V"	Minimum 26 Gauge Steel, Maximum 24" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -90 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
5190.3	3- "Centurydrain"	Minimum 29 Gauge Steel, Maximum 36" Wide Panel Attached to Wood Deck
Limits of Use (See Other)		Installation Instructions

Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -52.5 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
5190.4	4- "Centurydrain"	Minimum 26 Gauge Steel, Maximum 36" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -70 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
5190.5	5- "R-Panel"	Minimum 29 Gauge Steel, Maximum 36" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -52.5 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
5190.6	6- "R-Panel"	Minimum 26 Gauge Steel, Maximum 36" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -87.5 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

Velocity Hurricane Zone. Refer to Evaluation Report.		
5190.7	7- "Loc-Seam"	Minimum 26 Gauge Steel, 12"-16" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -52.5 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
5190.8	8- "Loc-Seam"	Minimum 26 Gauge Steel, Maximum 12" Wide Panel Attached to Wood Deck
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: Design Uplift Pressure = -70 psf. The required design wind loads shall be determined for each project. The maximum fastener spacing listed herein shall not be exceeded. All rational analysis computations shall be prepared by a qualified design professional, as required by Florida Building Code, Section 105. This product is not approved for use in the High Velocity Hurricane Zone. Refer to Evaluation Report.		Installation Instructions Verified By: Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

[Back](#)
[Next](#)

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards

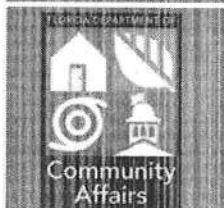
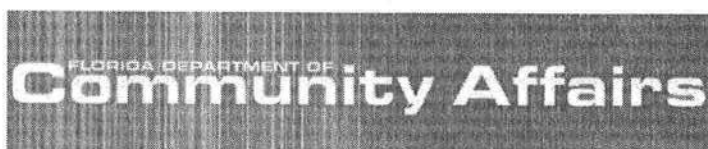
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100

(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

© 2000-2005 The State of Florida. All rights reserved. [Copyright and Disclaimer](#)

Product Approval Accepts:





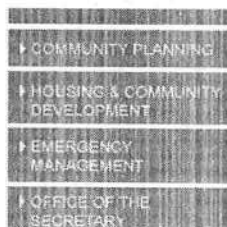
[BCIS Home](#) |
 [Log In](#) |
 [Hot Topics](#) |
 [Submit Surcharge](#) |
 [Stats & Facts](#) |
 [Publications](#) |
 [FBC Staff](#) |
 [BCIS Site Map](#) |
 [Links](#) |
 [Search](#)



Product Approval

USER: Public User

[Product Approval Menu](#) >
 [Product or Application Search](#) >
 [Application List](#) >
 Application Detail



FL # FL3595-R1
Application Type Revision
Code Version 2004
Application Status Approved
Comments
Archived ☐

Product Manufacturer Lomanco, Inc
Address/Phone/Email 2101 W.ain
 Jacksonville, AR 72076
 (501) 982-6511
 jimh@lomanco.com

Authorized Signature Jim Howser
 jimh@lomanco.com

Technical Representative Jim Howser
Address/Phone/Email 2101 W. Main St.
 Jacksonville, AR 72076
 jimh@lomanco.com

Quality Assurance Representative
Address/Phone/Email

Category Roofing
Subcategory Roofing Accessories that are an Integral Part of the Roofing System

Compliance Method Certification Mark or Listing

Certification Agency Miami-Dade BCCO - CER
Validated By

Referenced Standard and Year (of Standard)	Standard	Year
	Miami-Dade TAS 100(A)	1995
	Miami-Dade TAS 100(A)	1995

Equivalence of Product Standards
Certified By

Product Approval Method

Method 1 Option A

Date Submitted

Date Validated

06/16/2006

Date Pending FBC Approval

06/19/2006

Date Approved

07/12/2006

Summary of Products

FL #	Model, Number or Name	Description
3595.1	BEB-12 Whirlybird	12" Wind Turbine
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: 1) Shall not be installed on roof mean heights over 33 feet. 2) When expected wind speeds are over 70 mph, turbine head should be removed and replaced with approved storm cap.		Certification Agency Certificate FL3595 R1 C CAC 01061404 BIB-12.pdf Quality Assurance Contract Expiration Date Installation Instructions FL3595 R1 II PTID 3595 I BIB BEB instr A4.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
3595.2	BEB-12TR Whirlybird	12" Tile Roof Wind Turbine
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: 1) Shall not be installed on roof mean heights over 33 feet. 2) When expected wind speeds are over 70 mph, turbine head should be removed and replaced with approved storm cap.		Certification Agency Certificate FL3595 R1 C CAC 01061404 BIB-12.pdf Quality Assurance Contract Expiration Date Installation Instructions FL3595 R1 II PTID 3595 I BIB BEB-12 TR instr A4.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
3595.3	BEB-14 Whirlybird	14" Wind Turbine
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: 1) Shall not be installed on roof mean heights over 33 feet. 2) When expected wind speeds are over 70 mph, turbine head should be removed and replaced with approved storm cap.		Certification Agency Certificate FL3595 R1 C CAC 00112702 BIB-14.pdf Quality Assurance Contract Expiration Date Installation Instructions FL3595 R1 II PTID 3595 I BIB BEB instr A4.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
3595.4	BIB-12 Whirlybird	12" Wind Turbine
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: 1) Shall not be installed on roof mean heights over 33 feet. 2) When expected wind speeds are over 70 mph, turbine head should be removed and replaced with approved storm cap.		Certification Agency Certificate FL3595 R1 C CAC 01061404 BIB-12.pdf Quality Assurance Contract Expiration Date Installation Instructions FL3595 R1 II PTID 3595 I BIB BEB instr A4.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
3595.5	BIB-12TR Whirlybird	12" Tile Roof Wind Turbine
Limits of Use		Certification Agency Certificate

Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: 1) Shall not be installed on roof mean heights over 33 feet. 2) When expected wind speeds are over 70 mph, turbine head should be removed and replaced with approved storm cap.	FL3595 R1 C CAC 01061404 BIB-12.pdf Quality Assurance Contract Expiration Date Installation Instructions FL3595 R1 II PTID 3595 I BIB BEB-12 TR instr A4.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
3595.6 Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: 1) Shall not be installed on roof mean heights over 33 feet. 2) When expected wind speeds are over 70 mph, turbine head should be removed and replaced with approved storm cap.	BIB-14 Whirlybird 14" Wind Turbine Certification Agency Certificate FL3595 R1 C CAC 00112702 BIB-14.pdf Quality Assurance Contract Expiration Date Installation Instructions FL3595 R1 II PTID 3595 I BIB BEB instr A4.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

[Back](#)
[Next](#)

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards

2555 Shumard Oak Boulevard
 Tallahassee, Florida 32399-2100

(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

© 2000-2005 The State of Florida. All rights reserved. [Copyright and Disclaimer](#)

Product Approval Accepts:



Property Maintenance

	Columbia County		
37352	Land	001	*
	AG	000	
57599	Bldg	001	
5300	Xfea	002	
100251	TOTAL		B
.489	Total Acres		

Retain Cap?	Renewal	Notice

City, St	LAKE CITY	FL	Zip	32055	Area	N	Area		Area	
Country			(PUD1)		(PUD2)			(PUD3)		MKTA06

```

Appr By TWDF Date 2/16/2005 AppCode ... UseCd 001100, STORES, 1 STORY
TxDist Nbhd MktA ExCode Exemption/% TxCode Units Tp
002, 34317.00, 06, .....
DIST 2

```

```
House#      Street --- MD      Dir      #
-      City
```

Subd	N/A	Condo	.00	N/A
------	-----	-------	-----	-----

Sect 34 Twn 3S Rnge 17 Subd Blk Lot

Legals COMM SW COR OF LOT 8, RUN N 105 FT FOR POB, RUN E 210 FT,
N 105 FT, W 210 FT, S 105 FT TO POB. (IN NE1/4 OF SW1/4) +

Map#	Mnt	4/18/2005	PINKY
------	-----	-----------	-------

F1=Task F2=ExTx F3=Exit F4=Prompt F11=Docs F10=GoTo PgUp/PgDn F24=More

"Attachment A"