

LAW OFFICES OF BOBBY JONES, P.A.

ROBERT S. JONES II, ESQ.
HEATH C. MURPHY, ESQ.
LEE E. TOMLINSON, ESQ.

PHONE: 727-571-1333
FAX: 727-573-1321
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December 19, 2017

Hand delivered to:

Pinellas County Construction Licensing Board
12600 Belcher Road, Suite 102
Largo, Florida 33773

Re: Hendrick Roofing, Inc.'s Appeal of the ruling of the Building Official of the City of Seminole, Florida regarding: Streeter Residence, 11115 73rd Ave., Seminole, FL 33772, Permit: BLDR-2313-2017

To Whom it May Concern,

This firm represents Hendrick Roofing, Inc., ("Hendrick"), in regards to the above referenced matter. Hendrick hereby files its appeal of the denial of local product approval by Jim Ford, Building Official, Seminole, Florida dated December 4, 2017. A true and correct copy of the Denial Letter is attached hereto as Exhibit "A."

Hendrick is seeking local product approval for 24 gauge 5 V metal roofing panels, manufactured by Sheffield Metals, Inc., which were installed at the Streeter Residence in Seminole, Florida in or about May of 2017. Initially, Hendrick mistakenly submitted documents to the building official indicating 24 gauge 5 V metal roofing panels, manufactured by Union Corrugating Company, were installed at the Streeter Residence. The job was inspected, passed inspection and the permit was finalized.

After some collateral issues arose with the Streeters in regards to the job, it was observed that Union Corrugating material was not in fact the material installed. Hendrick commonly uses Union Corrugating roofing panels and through a simple oversight submitted Union Corrugating for permitting on the Streeter job. What actually happened on the Streeter Residence is that Union Corrugating was out of stock of the metal roofing panels needed and Hendrick was forced to secure the product from another distributor in order to meet the demands of the project.

Hendrick was able to secure the panels through Phoenix Metals Company ("Phoenix"), a material distributor, who supplied the Sheffield Metals 24 gauge 5 V metal roofing panels. A true and correct copy of the invoice for the material purchase from Phoenix is attached hereto as Exhibit "B." The Sheffield product does not have Florida Product Approval and thus local approval is required.

Additionally, there is a collateral dispute that has arisen between the Streeters and Hendrick, the crux of which is essentially the Streeters allege Hendrick improperly installed their new roof and left the job unfinished and Hendrick asserts that the Streeters unreasonably kicked Hendrick's crews off the job and due to being denied access to the roof, the crews were unable to finish the job, mostly consisting of minor punchlist items. However, this matter is collateral to the issue of local product approval and is not an issue for consideration on this appeal, nor should it be considered in regards to the permitting process.

Upon learning of the Sheffield/Union Corrugating mixup, Mr. Ford revoked the completion of the permit and then issued a letter dated August 14, 2017 to Hendrick requesting additional product information and threatening referral to PCCLB if Hendrick did not respond. The letter is attached hereto as Exhibit "C."

In an effort to assist closeout of the permit, Lee Tomlinson, an attorney for Hendrick, contacted Mr. Ford to ask what information he was requiring and what process needed to be followed to gain approval and close the permit out. After a telephone conversation, Mr. Tomlinson sent Mr. Ford an email to confirm the process that was discussed. Mr. Ford responded and confirmed exactly what he was requiring in order to approve the permit and product. A true and correct copy of the email is attached hereto as Exhibit "D."

In pertinent part, Mr. Ford required the following two step process. (1) Submit additional supporting documentation to obtain approval of the material, and (2) if the material is approved for use, then the Engineer of Record ("EOR") is to perform an onsite inspection of the roof and provide an Inspection Affidavit pursuant to the FBC to verify the approved material is what was actually installed on the Streeter Residence.

Hendrick then set out to follow these steps so that this project could be completed. As Mr. Ford's Denial Letter attached as Exhibit "A" indicates, Hendrick submitted the requested additional supporting documents to Mr. Ford's office. A true and correct copy of the submittals from R.D. Hall, P.E., EOR, are attached hereto as Exhibit "E." The submittals were emailed to Mr. Ford on October 24, 2017.

Recognizing that Mr. Ford's instructions required approval of the material before proceeding with the EOR's onsite inspection to verify the materials installed, Hendrick followed up with Mr. Ford on November 20, 2017 to inquire as to the status of the permit. Without any elaboration, Mr. Ford issued the Denial Letter attached as Exhibit "A" on December 4, 2017.

In the Denial Letter, Mr. Ford states that the Sheffield Metals material which was submitted is approved, and Hendrick does not dispute that ruling in this appeal. Then, Mr. Ford states that he is denying the request for local product approval because "no documentation has been provided to determine that actual product that was field crimped and installed is, in fact, the material is represented by the submitted engineer. Furthermore, no documentation has been submitted specifying the installation procedure."

This denial is completely arbitrary and capricious given that Mr. Ford did not give Hendrick the opportunity to comply with the instructions that Mr. Ford gave to Hendrick. Mr.

Ford told Hendrick to get the material approved first, and then if the material was approved to have it field inspected, however his Denial Letter approves the material while denying Hendrick's request for local approval because the EOR had not field-verified the material, something that per Mr. Ford's instructions, the EOR was not to do until the material was approved. Essentially the Denial short-circuits Mr. Ford's own instructions and creates a situation in which Hendrick can never comply despite its efforts to do so.

Additionally, it is unclear what further installation instructions Mr. Ford is requesting as the letter attached hereto dated October 4, 2017 sent by the EOR to Mr. Ford included the attached drawing showing the installation detail for the Sheffield Metal product complete with fastener type and spacing. A true and correct copy of the letter and attached drawing are attached hereto as Exhibit "F."

Wherefore, Hendrick respectfully requests that Mr. Ford's denial of Hendrick's request for local product approval be reversed and the request be granted by this Board and the Building Official be instructed to close out the permit, or alternatively, that the denial be reversed and the EOR be permitted to make the inspection and provide the Affidavit as initially requested by Mr. Ford to satisfy the requirements of Florida Building Code Section 104.9.

Sincerely,



Robert S. Jones, II

RSJ/let

Attachments: as specified.
cc: Hendrick Roofing, Inc.



CITY OF SEMINOLE

December 04, 2017

Hendrick Roofing, Inc.
1956 Wolford Rd.
Clearwater, FL 34620

RE: Request for Local Product Approval
11115 73rd Ave.
Seminole, FL
BLDR-2313-2017

Dear Sirs,

Pursuant to Florida Statute 553.8425, a request from R. D. Hall, PE, Unique Engineering Solutions, LLC, has been submitted to this department requesting local approval of Sheffield Metals International, 24 gauge, hot dipped 55PCT, Al.-Zn alloy coated coil steel. Coil to be field crimped to create a 5 V metal roofing panel.

The submitted documents included,

1. A rational calculation report determining compliance with structural windload requirements of Florida Building Code, Chapter 16.
2. Design windload requirements for the specified address above.
3. Technical Data Sheet for the fasteners supplied by Atlas Bolt and Screw Company.
4. Data from the steel coil manufacturer, Sheng Yu Steel Co, LTD denoting the steel conforms to the requirements of ASTM A792 for SS Grade 50 alloy coated steel.

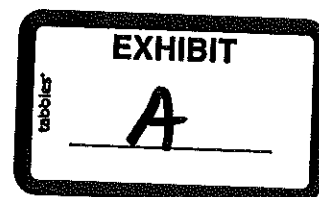
Review of the submitted documents concludes the *materials* comply with the minimum requirements of the Florida Building Code. However, no documentation has been provided to determine that actual product that was field crimped and installed is, in fact, the material that is represented by the submitted engineer. Furthermore, no documentation has been submitted specifying the installation procedure.

In conclusion, in my opinion, the submitted documents do not demonstrate compliance with Florida Statute 553.8425 and in accordance with Florida Building Code Section 104.9, are not approved for use in the City of Seminole.

In accordance with Florida Statute 553.775, an appeal of the jurisdiction's interpretation is to be made to the Pinellas County Construction Licensing Board, 12600 Belcher Rd., Suite 102, Largo, FL 33773.

Sincerely,


Jim Ford, Building Official





Norcross, GA
770-447-4211

Nashville, TN
931-486-1456

Phoenix Metals Company

FEI#58-1455083
REMIT TO: P.O. BOX 932589
ATLANTA, GA 31193-2589

Birmingham, AL
205-941-7477

Charlotte, NC
704-588-7075

INVOICE

PAGE 1

Tampa, FL 813-626-8999 Cincinnati, OH 513-727-4763 Philadelphia, PA 610-321-0866 Kansas City, KS 913-321-5200 Russellville, AR 479-567-6068 St. Louis, MO 636-379-4050 Richmond, VA 804-222-5052

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HENDRICK ROOFING INC
1956 WOLFORD AVENUE
CLEARWATER FL 33760

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HENDRICK ROOFING INC
1956 WOLFORD AVENUE
CLEARWATER FL 33760

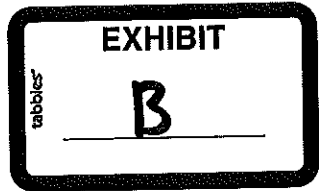
INVOICE NO.	INVOICE DATE
5810887	4/27/17
BIL NO.	SHIP DATE
	4/26/17
SHIPPING LOCATION	
TAMPA	
CARRIER	
OUR TRUCK	
F.O.B.	
DELIVERED *	

CUSTOMER NUMBER	TERM	CUSTOMER P.O. NO.	TERMS	TAX INFORMATION	TAX CODE	STATE	COUNTY	CITY	SALES TAX
HENROD	415	MAGAN	1/2% 10 NET 30			FL		18	404
QTY./REL.	DESCRIPTION			UNITS	PRICE/UNIT	AMOUNT			
2645 LBS	GALVALUME PAINTED PATINA GREEN COIL 24GA X 27 1/2			2645	1.03 SQF	2724.35			
	***Inc#4063744 - HOT!! Ship as soon as material arrives!!								
PCS	FUEL SURCHARGE				PCS				
NO DISCOUNT ALLOWED ON TAX, FREIGHT, OR LABOR. RETAINAGE NOT PERMITTED. WE RESERVED THE RIGHT TO ADD A 1 1/2% PER MO. (18% PER ANNUM), \$1.00 MINIMUM SERVICE CHARGE IF NOT PAID WITHIN 30 DAYS OF INVOICE DATE. NO STATEMENT WILL BE RENDERED. RETURN COPY OF INVOICE WITH PAYMENT, OR SHOW INVOICE NUMBER OF YOUR CHECK.						SUB-TOTAL		2,724.35	
						SALES TAX		190.70	
						TOTAL		2,915.05	

CUSTOMER ORIGINAL

NOTES:

PHOENIX METALS INVOICE
EMAILED FROM: KIM NORRIS
knorris@phoenixmetals.net
CUSTOMER EMAIL: KNORRIS@PHOENIXMETALS.NET





CITY OF SEMINOLE

August 14, 2017

Randy Hendrick
Hendrick Roofing
1965 Woford Road
Clearwater, FL. 34620

RE: BLDL-2313-2017
11115 73rd St.

VIA: Certified Mail #7013 2630 0001 3593 1622

Mr. Hendrick,

The owner of the above referenced property has provided our office with a letter from Robert S. Jones, II dated 7-28-17 stating that the metal roof installed on this property is Sheffield Metals, AZ50 Galvalume.

The above referenced permit was issued on 4/18/17 stipulating that the metal roof was a Union Corrugating Co. Florida Product Approval # 7271.4.

If the roofing material installed was not that which was permitted, the previous approved final inspection dated 5/15/17 is will be revoked in accordance with Florida Building Code Section 107.4.

The completion of this permit will be revoked as per Florida Building Code Section 111.4.

If the permitted product was not installed, a request to reopen Permit BLDL-2313 is to be made to this office along with a reinstatement fee of \$123.00. With said request, a revision to the roofing material is submitted along with a revision fee of \$25.00. Such revision is to include the proper Florida Product Approval number for the material denoted in Mr. Jones letter.

Failure to respond to these requirements on or before October 16, 2017 may result in this matter being referred to the Pinellas County Construction Licensing Board for possible disciplinary action.


Jim Ford, Building Official

cc: M. Ely
G. Streeter



From: Ford, Jim
To: Ltomlinson@bobbyjoneslaw.com;
cc: Bjones@bobbyjoneslaw.com; [Danielle Hendrick](mailto:Danielle.Hendrick); gina77mc@aol.com;
Reid, Renee; Ahrendt, Georgeanne; Ely, Mark;
Subject: RE: Permit BLDR-2313-2017
Date: Tuesday, October 17, 2017 8:04:18 AM

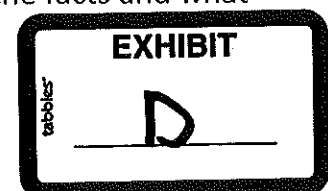
Please see below.

Jim Ford, CBO
Building Official, City of Seminole
9199 - 113th Street North
Seminole, Florida 33772
jford@myseminole.com
Off: 727-392-1966, Ext. 128
Fax: 727-319-6583

From: Ltomlinson@bobbyjoneslaw.com [<mailto:Ltomlinson@jlgampabay.com>]
Sent: Monday, October 16, 2017 4:28 PM
To: Ford, Jim
Cc: Bjones@bobbyjoneslaw.com; [Danielle Hendrick](mailto:Danielle.Hendrick)
Subject: Permit BLDR-2313-2017

Mr. Ford,

It was a pleasure speaking with you earlier and I appreciate all the information you were able to provide. As we discussed, I would like to confirm that you agree that your office will not be moving forward with any complaints or referrals of Hendrick Roofing to the Pinellas County Licensing Board or other similar entity as previously mentioned in your letter dated August 14, 2017, due to Hendrick providing engineering as requested. Correct; complaint is forestalled at this time. Moving forward, please let me know if this is an accurate summation of the facts and what



you are requesting.

1 - Hendrick is seeking to get local product approval for the metal roof currently installed and will not be looking to remove the existing roof or re-install any material. Correct; a proper request is to be made by Raymond Hall, Engineer of Record (EOR) seeking local jurisdictional approval of the metal roofing, in accordance with Florida Building Code Section 104.11. Approval of the material currently installed is pending at this time.

2 - You are requesting that Hendrick submit a letter from their engineer that provides additional information pursuant to FBC § 104.11. Correct; EOR to submit supporting documentation as proscribed in 104.11.1 and 104.11.2 to obtain approval.

3 - Upon approval from your office of the above-mentioned letter, you are requesting that the engineer submit a subsequent letter stating that he has inspected the roofing material installed and verifies the type of material actually installed. Correct; if the material installed is approved for use via 104.11, then the EOR is to perform an onsite inspection of the roof and provide an Inspection Affidavit as detailed in Florida Building code Section 107.6, to this office. Inspection results are to include verification that the metal roofing material is, in fact, Sheffield 24-gauge 5 V metal roofing as detailed in the EOR letter of 10-4-2017.

Please let me know if this reflects everything that your office needs in order to approve the product and to finalize all permits and inspections on the subject property. If anything else is needed, please let us know as soon as possible. Don't hesitate to contact me if you need anything additional and I will present this information to my client and discuss the best way to proceed.

Thanks,

Lee E. Tomlinson
Attorney
The Law Offices of Bobby Jones, P.A.
www.bobbyjoneslaw.com

Physical Address:
6570 30th Avenue North
St. Petersburg, Florida 33710.
Mailing Address:
PO Box 41643
St. Petersburg, Florida 33743
Phone: (727) 571-1333

ltomlinson@bobbyjoneslaw.com

Florida has very broad public records laws. Most written communications to or from local officials regarding city business are public records and are available to the public and media upon request. Your e-mail communication may, therefore, be subject to public disclosure. Under Florida Law, e-mail addresses are public records. If you do not want your e-mail address released to a public records request, do not send electronic mail to this entity.

Unique Engineering Solutions, LLC
720 Ponce De Leon BLVD
Brooksville, FL 34601
COA# 30913

Wednesday, October 18, 2017

City of Seminole
9199 113th Street
Seminole, FL 33772

Reference: 11115 73rd Ave
Seminole, FL 33772
Job No. 217-113

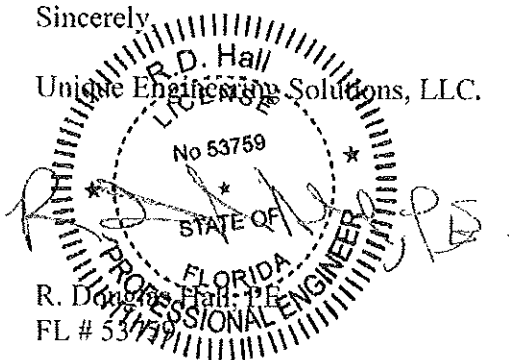
Gentlemen:

As "Specialty Engineer" for the above titled project this letter is to certify that the use of Sheffield 24-gauge 5 V metal roofing over PG MTS Underlayment is adequate for the above titled project, and conforms to the requirements of the project specifications and the Florida Building Code 2014. The attached calculation package was developed using ASCE 7-10 wind analyst and FBC 2014 wind speeds. The findings here-in show the panel installed at the above referenced location meets and exceeds the requirements of the FBC 2014.

We appreciate the opportunity of preparing these calculations. Should any additional questions arise or clarifications become necessary please do not hesitate to contact us.

Sincerely,

R. D. Hall
Unique Engineering Solutions, LLC.



R. Douglas Hall: P.E.
FL # 53759



Unique Engineering Solutions
Specialty Consulting Engineers

COA #30913

Job: 11115 78th Ave
Bradley Gardens

By: 1/1 Date: 1/22 Sht. No. of
Job No. 11115 Revisions

5V Metal Facet Design

Panel Properties: $I_{xx} = 0.003 \text{ in}^4$ $E_f = 50 \text{ ksi}$
 $S_{xx} = 0.0073 \text{ in}^3$ $L = 24 \text{ in}$

Load Development

Per ASCE 7-10: $p = ah[(GCP) - (GCP)]$

Design Pressure Zone 1: $16.76 / 32.6$

Zone 2: $16.76 / 17.39$

Zone 3: $16.76 / 74.78$
(UH)

Panel Calculation

1) Trib Area = 12.5 ft^2

2) Wind Load = $47.39 \frac{\text{ft}}{\text{mi}} \times 0.6 = 28.4 \text{ psf}$

3) Down Load = Wind Load \times Trib Area = 296 #/ft

4) Assume Water Table Condition \Rightarrow Max $0.106 \text{ wt}^2 = 11.5 \text{ #/ft}$

5) Check yielding = $S_b = \frac{M}{S} \Rightarrow S_{req} = \frac{M}{S_b} = \left[0.003 \text{ in}^3 \ll (0.007) \text{ in}^3 \right] \text{ OK}$

6) Panel Passes Yielding Requirement

Anchor Calculation

Anchor Area = $12.5 \text{ ft} \times 24 \text{ in} = 2.08 \text{ sq ft}$

Wind Load = 28.4 psf

Anchor Load = $28.4 \text{ psf} \times 2.08 \text{ sq ft} = 59.1 \text{ #/Anchor} \ll 90 \text{ # Allowable} \text{ OK}$

Hendrick Roofing

Project : 11115 73rd Ave
 Subject : Wind Pressure ULT
 Location : Seminole FL

File : 217-113
 Date : 10/17/2017
 Eng : ADH

Design Wind Pressure, p , Equation 30.4-1 (ASCE 7-10).

Components and Cladding	Building Type	Equation
(Envelope Procedure)	Low-Rise Buildings with $h \leq 60$ ft Gabled & Hipped Roofs	$p = qh[(GCp) - (GCpi)]$ qh : velocity pressure at h GCp : Figures 30.4-1 & 30.4-2 $GCpi$: Table 26.11-1

Velocity Pressure Calculations:

Velocity pressure qh is calculated in accordance with section 30.3.

qh = Velocity pressure @ mean roof height (h)

$$qh = \text{Constant} \cdot K_h \cdot K_{zt} \cdot K_d \cdot V^2$$

(Eq 30.3-1)

Where : Constant = Numerical Constant (Section C27.3.2)

$$= \frac{1}{2} \cdot \left[\left(\frac{\text{Air density lb/cu ft}}{32.2 \text{ ft/s}^2} \right) \cdot \left(\frac{\text{mi/h}}{5280 \text{ ft/mi}} \cdot \frac{1 \text{ hr}}{3600 \text{ s}} \right)^2 \right]$$

$$= 0.00256$$

Mean Sea Level = 0.00 ft

Air Density @MSL = 0.0765 lb/cu ft (Table C27.3-2)

Occupancy Category = II (Table 1.5-1)

Exposure Category = B (Section 26.7.3)

α = 7.00 (Table 26.9-1)

Z_g = 1,200.00 ft (Table 26.9-1)

Basic Wind Speed = 150.00 mph (Figure 26.5-1 A-C)

Mean Roof Height = 25.00 ft

Where : K_h = Velocity pressure coefficient @ height h

$$= 2.01 \cdot (Z/Z_g)^{2/\alpha} \text{ for } 15 \text{ ft} \leq Z \leq Z_g \quad (\text{Table 30.3-1})$$

$$= 2.01 \cdot (15/Z_g)^{2/\alpha} \text{ for } Z < 15 \text{ ft}$$

$$= 0.70$$

K_{zt} = Topographic factor (Figure 26.8-1)

$$= (1 + K_1 - K_2 - K_3)^2$$

Topography = None

K_{zt} @ h = 1.00

K_d = Wind directionality factor (Table 26.5-1)

$$= 0.85$$

qh = 34.30 (psf)

Hendrick Roofing

Project : 11115 73rd Ave
 Subject : Wind Pressure ULT
 Location : Seminole FL

File : 217-113
 Date : 10/17/2017
 Eng : ADH

Internal Pressure Coefficient, G_{Cpi} , Table 26.11-1

	0.18	-0.18	60	5,000,000	1.00	0.18	-0.18
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External Pressure Coefficients, G_{Cp} , Figure 30.4-2 (roof) and Figure 30.4-1 (walls)

500.00	9.46	0.30	-0.80	-
500.00	9.46	0.30	-1.20	-2.20
500.00	9.46	0.30	-2.00	-2.50
1.00	All	0.90	-0.99	-
1.00	All	0.90	-1.26	-

Values of G_{Cp} for walls (zone 4 & 5) were reduced by 10%

Design Wind Pressure, p , Equation 30.4-1.

34.30	0.30	-0.80	0.18	-0.18	4.12	16.46	-33.61	-21.27
34.30	0.30	-1.20	0.18	-0.18	4.12	16.46	-47.34	-34.99
34.30	0.30	-2.00	0.18	-0.18	4.12	16.46	-74.78	-62.43
34.30	0.90	-0.99	0.18	-0.18	24.70	37.05	-40.13	-27.78
34.30	0.90	-1.26	0.18	-0.18	24.70	37.05	-49.39	-37.05

Positive and negative values of external and internal pressures are combined to determine four possible pressures:

$p1+$ uses G_{Cp+} and G_{Cpi+} $p1-$ uses G_{Cp-} and G_{Cpi+}
 $p2+$ uses G_{Cp+} and G_{Cpi-} $p2-$ uses G_{Cp-} and G_{Cpi-}

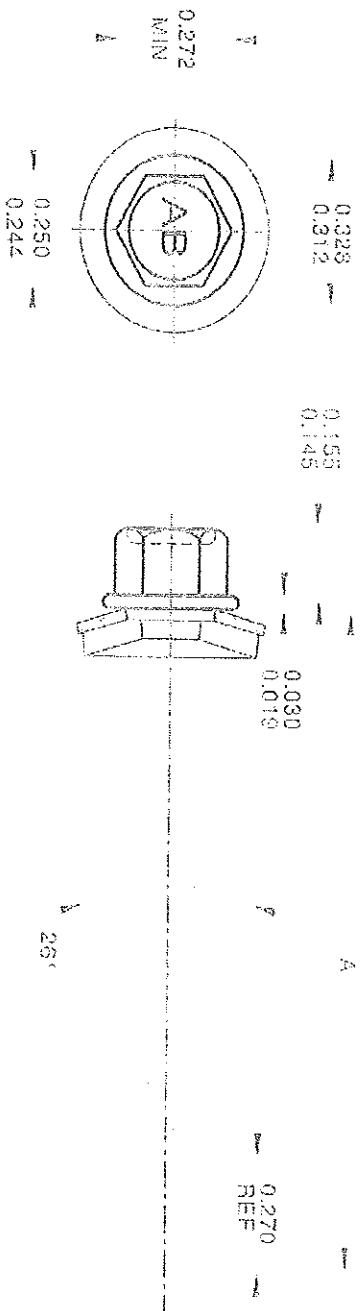
Roof Overhang Pressure, p , Equation 30.10-1.

Wind pressures acting on the roof overhang (soffit pressures not included).

34.30	-1.00	0.18	-0.18	-40.48	-28.13
34.30	-2.20	0.18	-0.18	-81.64	-69.29
34.30	-2.50	0.18	-0.18	-91.93	-79.58

Atlas Bolt and Screw Company Technical Data Sheet

October 28, 2008



Product Description: #10-14 LockFast Wood Fastener
Available Lengths "A": 1" 1-1/2" 2" 2-1/2" 3"

Mechanical Properties	
(Minimum Performance Values)	
Tensile Strength	1,817 lbs
Torsional Strength	68 in/lbs
Shear Strength	1,216 lbs

Dimensional Properties	
Major Dia.	.200" ± .190"
Minor Dia.	.133" ± .128"
Stress Area	.01336 sq. in.

Pull-Out Values						
(Average Ultimate Failure Values in lbs.)						
Gauge	1/2" CDX	5/8" CDX	3/4" CDX	7/16" OSB	1/2" OSB	5/8" OSB
Value	361	490	560	223	161	219
						SPF #2
						498

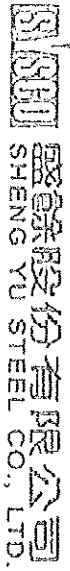
Pull-Over Values						
(Average Ultimate Failure Values in lbs.)						
Gauge	29"	26	24	22	20	18
Value	450	520	704	-	-	-

Shear Values						
(Average Ultimate Failure Values in lbs.)						
Gauge	2 x 29"	2 x 26	2 x 24	2 x 22	2 x 20	2 x 18
Value	293	295	434	-	-	-
						2 x 16
						2 x 14
						2 x 12

All test results are based on laboratory tests. Specific job site conditions should be taken into consideration when specifying the proper fastener. Because applications vary, we assume no liability for use of this information.

Test material used was 50 ksi minimum yield tensile strength.
* Test material used was 80 ksi minimum yield tensile strength.
Testing was performed per North American Cold-Formed Steel Specification F1: Tests for Determining Structural Performance. However a minimum of 10 test samples were utilized instead of 3 samples.

2014 308453-01



品質證明書
CERTIFICATE OF INSPECTION

SHENG YU STEEL CO., LTD.
LIN ENI INDUSTRIAL DISTRICT
NO. 11 CHONG-LIN RD.
HSIN-CHANG TOWNSHIP
TAICHUNG, R.O.C.
TEL : 886 7 8715555
FAX : 886 7 8717592

PO 2014

客戶名稱 SOLD TO	JFE SBO1 TRADE AMERICA, INC.	品名 ASTM A792 SS Grade 50	品號 SPEC.
品名	ASTM A792 SS Grade 50	品號	SPEC.
品名	ASTM A792 SS Grade 50	品號	SPEC.

項目 ITEM NO.	規格 SPEC.	長度 LENGTH	寬度 WIDTH	厚度 THICK	重量 WEIGHT	面積 AREA	磅數 LBS	熱處理 HEAT NO.	化學成分 CHEMICAL COMPOSITION (%)		機械性能 MECHANICAL PROPERTIES		備註 REMARKS						
									C	Mn	Yield	Tensile							
001	6082754/1000	48.375	10.310	0.0236	5905	231.71	1666744			78	114	5	36	A250	O.K.	79	63	26	O.K.
002	6082754/2000	48.375	10.375	0.0235	5827	22785	1665544			74	118	4	44	A250	O.K.	78	63	27	O.K.
003	6082755/1000	48.375	10.420	0.0236	5879	22972	1665734			80	116	5	42	A250	O.K.	78	63	27	O.K.
004	6082755/2000	48.375	10.430	0.0236	5879	22974	1665734			80	116	5	42	A250	O.K.	77	63	28	O.K.
005	6082756/1000	48.375	10.420	0.0235	5843	22972	1664683			80	116	5	42	A250	O.K.	77	63	28	O.K.
006	6082756/2000	48.375	10.580	0.0235	5843	22972	1664683			80	116	5	42	A250	O.K.	73	58	30	O.K.
007	6082757/1000	48.375	10.130	0.0236	5774	22353	1664683			80	116	5	42	A250	O.K.	73	58	30	O.K.
008	6082757/2000	48.375	10.470	0.0236	5809	23082	1664683			80	116	5	42	A250	O.K.	73	58	30	O.K.
009	6082758/1000	48.375	10.120	0.0236	5778	22311	1664683			80	116	5	42	A250	O.K.	73	57	30	O.K.
010	6082758/2000	48.375	10.440	0.0236	5880	23046	1664683			80	116	5	42	A250	O.K.	72	57	30	O.K.
011	6082759/1000	48.375	10.375	0.0236	5840	22872	1657112			81	113	4	52	A250	O.K.	72	58	30	O.K.
012	6082759/2000	48.375	10.260	0.0236	5787	22619	1657112			81	113	4	52	A250	O.K.	72	58	30	O.K.
013	6082760/1000	48.375	10.375	0.0236	5840	22873	1664683			79	115	5	49	A250	O.K.	72	58	30	O.K.
014	6082760/2000	48.375	10.350	0.0236	5827	22818	1664683			79	115	5	49	A250	O.K.	73	58	31	O.K.
015	6082761/1000	48.375	10.395	0.0236	5836	22972	1665745			81	113	5	22	A250	O.K.	73	58	31	O.K.
016	6082761/2000	48.375	10.350	0.0236	5837	22818	1665745			81	113	5	22	A250	O.K.	72	57	31	O.K.
017	6082762/1000	48.375	10.455	0.0236	5809	23048	1664683			80	116	5	42	A250	O.K.	72	57	31	O.K.
018	6082762/2000	48.375	10.435	0.0236	5809	23051	1664683			80	116	5	42	A250	O.K.	72	57	31	O.K.
019	6082763/1000	48.375	10.370	0.0236	5840	22862	1664683			80	116	5	42	A250	O.K.	72	57	31	O.K.
020	6082763/2000	48.375	10.300	0.0236	5801	22708	1664683			80	116	5	42	A250	O.K.	72	57	31	O.K.
		Total :		207.290 MT		456,996 lbs													

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

品質證明書 (Product contains description. Please don't contact with food)

Quality Control Manager

Unique Engineering Solutions, LLC
720 Ponce De Leon BLVD
Brooksville, FL 34601
COA# 30913

Wednesday, October 04, 2017

City of Seminole
9199 113th Street
Seminole, FL 33772

Reference: 11115 73rd Ave
Seminole, FL 33772
Job No. 217-113

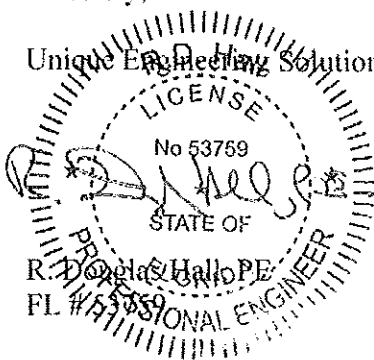
Gentlemen:

As "Specialty Engineer" for the above titled project this letter is to certify that the use of Sheffield 24-gauge 5 V metal roofing over PG MTS Underlayment is adequate for the above titled project, and conforms to the requirements of the project specifications and the Florida Building Code 2014. See attached details

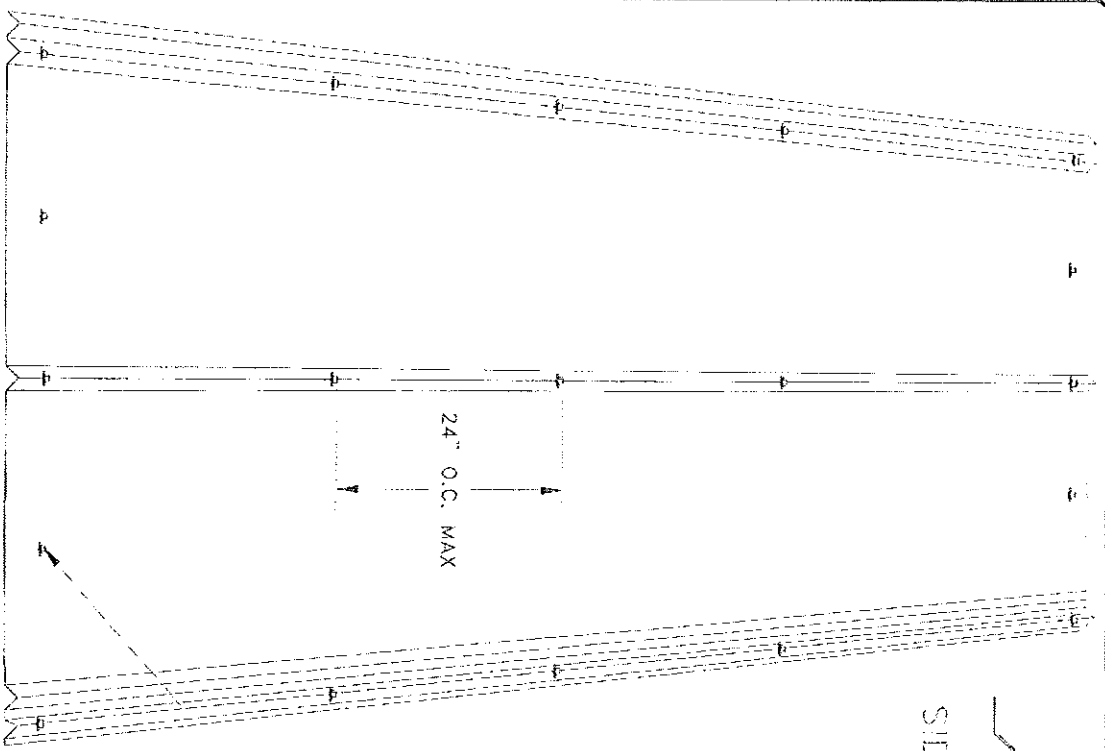
We appreciate the opportunity of preparing these details. Should any additional questions arise or clarifications become necessary please do not hesitate to contact us.

Sincerely,

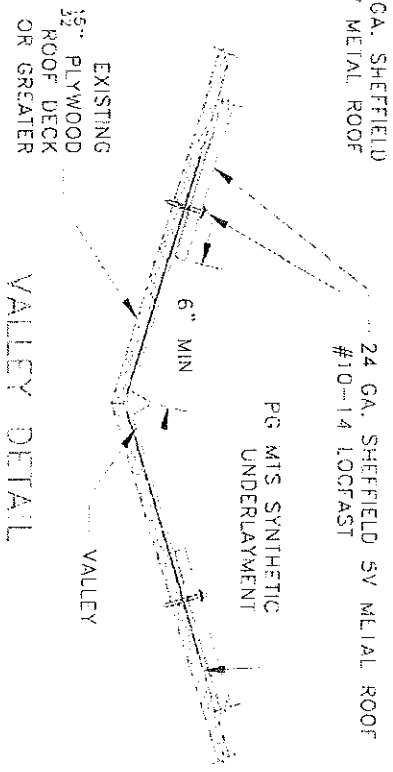
Unique Engineering Solutions, LLC.



NOTE:
150 MPH WIND SPEED

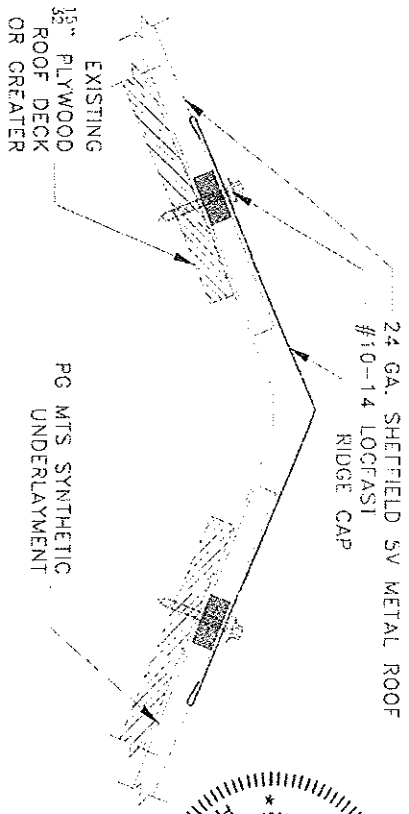


#10-14 LOCFAST
24 GA. SHEFFIELD
5V METAL ROOF



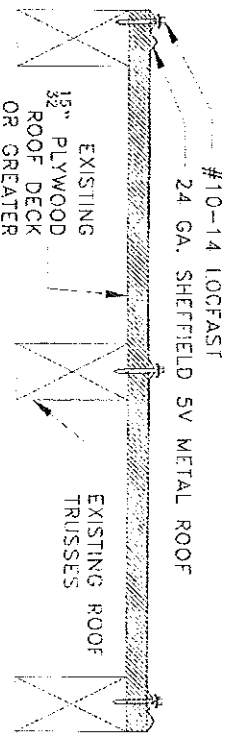
VALLEY DETAIL

24 GA. SHEFFIELD 5V METAL ROOF
#10-14 LOCFAST
RIDGE CAP

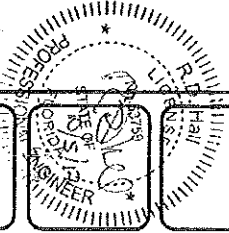


RIDGE DETAIL

#10-14 LOCFAST
IN THE FLATS AT
EAVE AND PEAK



TYPICAL PANEL DETAIL



DATE	10/15/2010
BY	R. D. HARRIS
CHECKED	J. M. SMITH
SCALE	AS SHOWN
PROJECT	10-10-10-001
SHEET	S1

CONTRACT NO. 10-10-10-001
PROJECT NO. 10-10-10-001
SHEET NO. S1

DATE	10/15/2010
BY	R. D. HARRIS
CHECKED	J. M. SMITH
SCALE	AS SHOWN
PROJECT	10-10-10-001
SHEET	S1