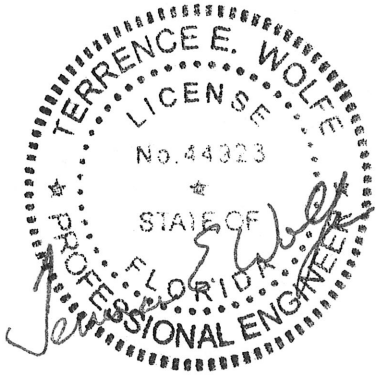
PRODUCT EVALUATION REPORT

Imperial Rib

State of Florida Professional Engineer:
Terrence E. Wolfe, P.E. # 44923
19530 Ramblewood Drive
Humble, TX 77338

State of Florida
C.O.A.
28778



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Manufacturer:

ABC, L.P. *a division of NCI, L.P.*

Lubbock
5711 FM-40
Lubbock, TX 79401

Memphis
300 Highway 51 North
Hernando, MS 38632

Rome
6168 State Route 233
Rome, NY 13440

Adel
1600 Rogers Road
Adel, GA 31620

Salt Lake City
1155 West 2300 North
Salt Lake City, UT 84116

Frankfort
1099 US Highway 421 S.
Frankfort, KY 40601

Memphis
300 Highway 51 North
Hernando, MS 38632

SUBJECT:

Roofing, Metal Roofing

DESCRIPTION:

Imperial Rib Panel – a 36", wide, through-fastened, non-structural, metal roof panel, available in 29-ga. (0.015). Stormproof Panel is typically applied over plywood. Stormproof panel is through-fastened roof system.

CODE CRITERIA:

PER RULE 61G20-3, CHAPTER 15, FLORIDA BUILDING CODE – BUILDING, 6TH EDITION (2017), ROOF ASSEMBLIES AND ROOFTOP STRUCTURES

SECTION 1504
PERFORMANCE REQUIREMENTS

1504.1 Wind resistance of roofs. Roof decks and roof coverings shall be designed for wind loads in accordance with Chapter 16, Sections 1504.3.2.

1504.3.2 Metal panel roof systems. Metal panel roof systems through fastened or standing seam shall be tested in accordance with UL580 or ASTM E 1592 or TAS 125.
Exception: Metal roofs constructed of cold-formed steel, where the roof deck acts as the roof covering and provides both weather protection and support for structural loads, shall be permitted to be designed and tested with accordance with the applicable reference structural design standard in section 2210.1

SECTION 1505
FIRE CLASSIFICATION

1505.1 General. Roof assemblies shall be divided into the classed defined below. Class A, B, and C roof assemblies and roof coverings required to be listed by this section shall be tested in accordance with ASTM E 108 or UL 790.

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SECTION 1506
MATERIALS

1506.1 Scope. The requirements set forth in this section shall apply to the application of roof-covering materials specified herein. Roof coverings shall be applied in accordance with this chapter and the manufacturer's installation instructions.
See attached installation details.

1506.3 Product identification. Roof covering materials shall be delivered in packages bearing the manufacturer's identifying marks and approved testing agency labels required in accordance with 1505.

1506.6 Screws. Wood Screws shall conform to ANSI/ASME B 18.6.1. Screws shall be corrosion resistant by coating, galvanization, stainless steel, nonferrous metal or suitable corrosion-resistant material. Corrosion resistance shall be equivalent to ASTM A641, Class1; TAS114, App E; or exhibit not more than 5 percent rust after 1000 hrs. exposure ASTM B 117.

SECTION 1507
REQUIREMENTS FOR ROOF COVERINGS

1507.1 Scope. Roof coverings shall be applied in accordance with the applicable provisions of this section and the manufacturer's installation instructions.

1507.1.1. Underlayment. Underlayment shall be applied and attached in accordance with Table 1507.1.1.

1507.4 Metal roof panels. The installation of metal roof panels shall comply with the provisions of this section.

1507.4.1 Deck requirements. Metal roof panel roof coverings shall be applied to a solid or closely fitted deck, except where the roof covering is specifically designed to be applied to spaced supports.
See attached limits of use.

1507.4.2 Deck slope. The minimum slope for lapped, nonsoldered seam metal roof panels with applied lap sealant shall be one-half unit vertical in 12 units horizontal (4-percent slope).
See attached limits of use.

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1507.4.3 Material standards. Metal-sheet roof covering systems that incorporate supporting structural members shall be designed in accordance with Chapter 22. Metal-sheet roof coverings installed over structural decking shall comply with Table 1507.4.3(2).

Table 1507.4.3(2) Metal Roof Coverings

Roof Covering Type	Minimum Application Rate
55% Aluminum-Zinc Alloy Coated Steel	ASTM A 792 AZ 50
5% Aluminum Alloy Coated Steel	ASTM A 875 GF60
Galvanized Steel	ASTM A 653G-90
Prepainted Steel	ASTM A 755

1507.4.4 Attachment. Metal roof panels shall be secured to the supports in accordance with the manufacturer's fasteners. In absence of manufacturer recommendations, the following fasteners shall be used.

1. Galvanized fasteners shall be used for steel roofs.

2. Copper, brass, bronze, copper alloy or 300 series stainless-steel fasteners shall be used for copper roofs.

3. Aluminum-zinc coated fasteners are acceptable for aluminum-zinc coated roofs.

4. Stainless-steel fasteners are acceptable for all types of metal roofs.

CHAPTER 22
STEEL

SECTION 2210
COLD-FORMED STEEL CONSTRUCTION

2210.1 Regular cold-formed steel. The design of cold-formed carbon and low-alloy steel structural members shall be in accordance AISI S100.

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LIMITATIONS OF USE FOR NON-HIGH VELOCITY HURRICANE ZONES

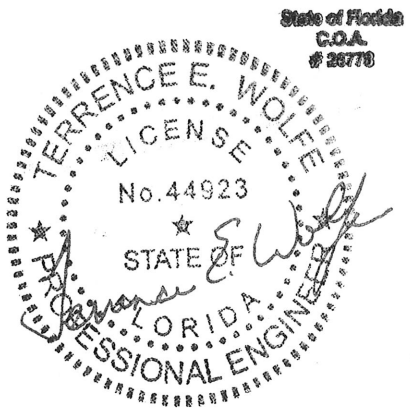
Minimum Slope:	***3:12*** (per manufacturer's recommendation).
Deck Type:	Wood
Deck Description:	Shingles over 15/32" or greater plywood or wood plank.
Deck Attachment:	Applied in accordance with FBC 6th Edition (2017)
Underlayment:	Applied in accordance with FBC 6th Edition (2017)
Fire Barrier:	Class A fire exposure rating in accordance with FBC Section 1505.1 with UL 790.
Minimum Deck Thickness:	nominal 1/2" CDX, or approved equal.
Panel Material:	Confirms to ASTM A 792.

Documentation Supporting the Compliance Statement:

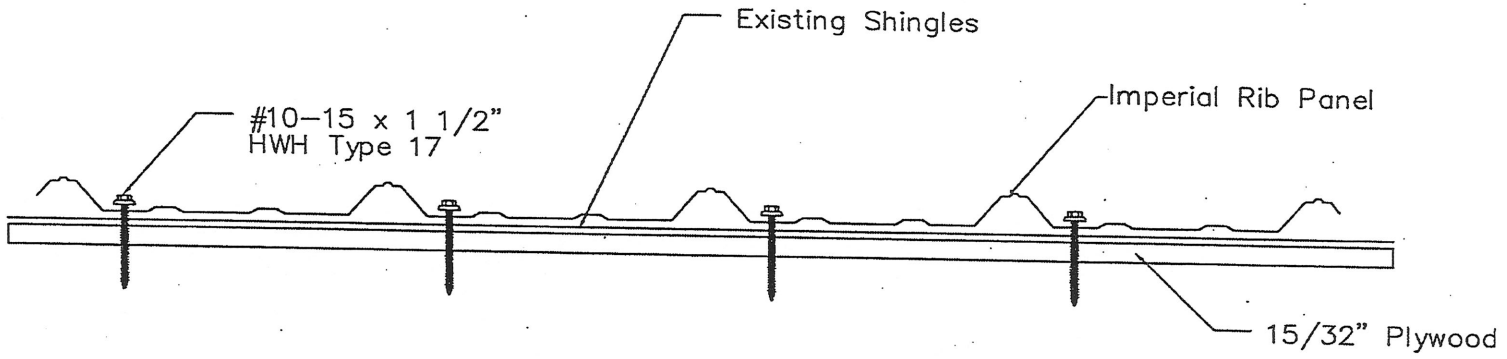
The product has been tested in accordance with:

- Per UL 580-94 w/Rev THRU 1998, UL 1897-98. Test Report 07-0035T-10 A, & B, dated 2-23-10 by Force Engineering & Testing, Inc. located in Humble, TX 77338. The UL 580-94 test standard is equivalent to the UL 580-06 test standard. The UL 1897-98 test standard is equivalent to the UL 1897-12 test standard.
- UL 790 Class A documentation under Section 1505.1, located in Northbrook, IL 60062.

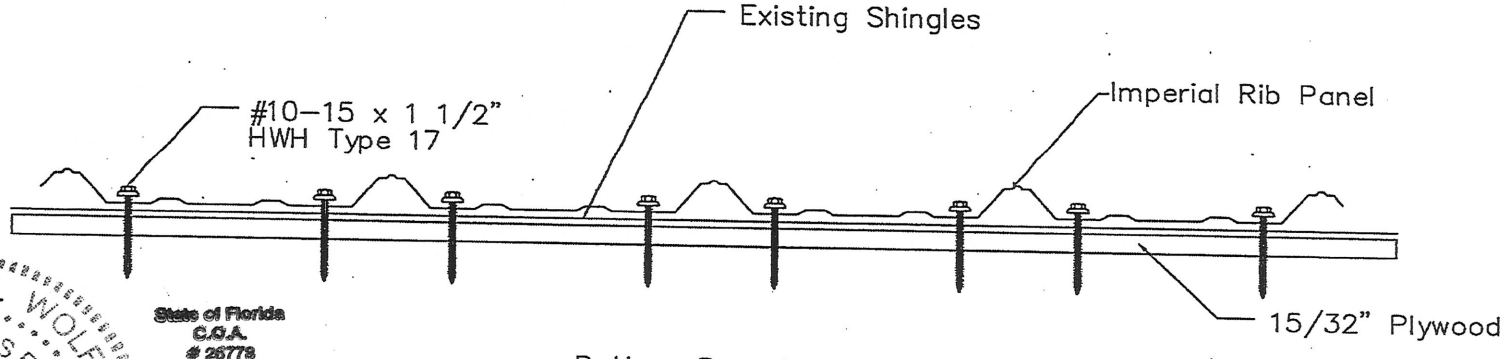
Maximum Uplift Pressure:	-71.00 psf @ 2'-0" o.c. Pattern A -153.50 psf @ 1'-0" o.c. Pattern B
Application:	Install Imperial Rib panel per the manufacturers approved detail. Use #10-15 HiLo Woodgrip fasteners w/ ½" Diameter bonded washer sufficient length to penetrate 5/16" through the sheathing. Screws may be placed in the pan of the panels at the appropriately designed spacing.



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Pattern A – 9–9–9–9



Pattern B – 6–3–6–3–6–3

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