NewTechWood America, Inc.
15912 International Plaza Dr.
Houston, TX 77032

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

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

DESCRIPTION: Allweather Model US09 Cladding Panels Composite Siding System

APPROVAL DOCUMENT: Drawing No. 20-168, titled “New Tech Wood Wall Cladding Panel US09 System”, sheets 1 through 5 of 5, dated 07/02/2020, prepared by Tilltec, Inc., signed and sealed by Walter A. Tillit, Jr., P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer’s name or logo, manufacturing plant’s city and state, model/series, and following statement: "Miami-Dade County Product Control Approved", is to be located on each panel.

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

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

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises NOA # 19-0528.04 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above. The submitted documentation was reviewed by Carlos M. Utrera, P.E.
NewTechWood America, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under NOA # 19-0528.04

A. DRAWINGS

B. TESTS
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   along with marked-up drawings of US09 Cladding Panel System, prepared by Blackwater Testing, Inc., Test Report No. BT-NTW-18-001, dated 09/04/2018, signed and sealed by Constantin Bortes, P.E.

C. CALCULATIONS

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

E. MATERIAL CERTIFICATIONS

F. STATEMENTS
2. Statement letter of no financial interest issued by Tilteco, Inc., dated 02/21/2019, signed and sealed by Walter A. Tillit, Jr., P.E.
3. Distributor agreement dated 08/01/2019.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0811.13
Expiration Date:
Approval Date:
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. New evidence submitted

A. DRAWINGS
      sheets 1 through 5 of 5, dated 07/02/2020, prepared by Tilteco, Inc., signed and sealed
      by Walter A. Tillit, Jr., P.E.

B. TESTS
   1. None.

C. CALCULATIONS
   1. None.

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

E. MATERIAL CERTIFICATIONS
   1. None.

F. STATEMENTS
   1. Statement letter of code conformance to the 7th edition (2020) FBC issued by Tilteco,
      Inc., dated 07/06/2020, signed and sealed by Walter A. Tillit, Jr., P.E.
GENERAL NOTES:

1. This Product Approval Document (P.A.D.) for Newtechwood Cladding Panel US09 System, indicated and specified on this drawing, has been verified for compliance in accordance with the 2017 (6th Edition) and 2020 (7th Edition) of the Florida Building Code. Design wind loads for each installation shall be determined as per Section 1402 of the above mentioned code, using ASCE 7-10 (FBC 2017) and ASCE 7-16 (FBC 2020) standards and shall not exceed the maximum (A.S.D.) design pressure rating indicated on this sheet.

In order to verify the above condition, ultimate design wind loads determined per ASCE 7-10 and ASCE 7-16 shall be first reduced to A.S.D. design wind loads by multiplying them by 0.6 in order to compare these w/ max. (A.S.D.) design pressure ratings indicated on this sheet.

In order to verify that components and anchors on this P.A.D. as tested were not over stressed, a 33% increase in allowable stress for wind loads was not used in their analysis. A duration factor CD=1.60 was used for verification of fasteners in wood.

Newtechwood Cladding Panel US09 profiles’ adequacy for wind and fatigue resistance has been verified in accordance with section 1626 of the above mentioned code as per Blackwater Testing Inc. Report #BT–NTW-18 051 per TAs 202 & 203 protocols, and as per submitted structural calculations performed as per sections 1618 and 1614 of the Florida building code. See note 8 below for additional testing performed on product.

2. Building wall system where cladding panels will be installed shall be designed by a Florida registered professional engineer or architect and shall be built in accordance with the Florida building code for impact, wind & water resistance as per sections 1626.41, 1404.4, 1404.8 and 1626.42(c), 1404.2 of the Florida building code. See notes on sheet 2 for added limitations & conditions for wood frame walls.

5. Maximum A.S.D. design wind pressure rating for this product is +150, –150 p.s.f. *

* Profiles to be continuous min. over 3 spans.

4. Components for this product shall be as indicated on sheet 2 of this drawing.

5. Substructure (components # 6A & 6B) providing support to Newtechwood Cladding Panel US09 system must be properly anchored to transfer loads to the existing structural wall or ceiling system. Substructure profiles must be as indicated on bill of materials sheet 2, and shall be spaced as per details on sheets 3 & 4.

6. This product’s installation shall comply with all specs indicated in this drawing plus any building and zoning regulations provided by the jurisdiction where permit is applied to.

7. (a) This P.A.D. prepared by this engineer is generic and does not provide information for a specific project: i.e. where the site conditions deviate from the P.A.D.

(b) Contractor to be responsible for the selection, purchase and installation including life safety of this product based on this P.A.D. provided he/she does not deviate from the conditions detailed in this document.

(c) This P.A.D. will be considered invalid if modified.

(d) Site specific projects shall be prepared by a Florida registered engineer or architect which will be responsible for the proper use of the P.A.D., professional of record, acting as a delegated engineer to the P.A.D. engineer shall submit to this letter the site specific drawings for review.

(e) Original P.A.D. shall bear the date and original seal and signature of the professional engineer that prepared it.

8. Cladding panel US09 system profiles are made of a technological wood material, composed of the combination of a PVC component and wood fibers to create a material with a dimensional stability that is much greater than both traditional WPC and wood itself.

Panel has no problem resisting water because 80% of the wood fibers are coated by the polymeric component (PVC and other elements in the formula) and its also coated with a cap layer made of polyethylene based compound polymer W/56 hardness, provided by Newtechwood America, Inc. contains no toxic materials, is LEED compliant (sustainability) and is not subject to the destructive action of woodworm, fungi and parasites. Thermal expansion must be considered depending on panel length by using coefficient of thermal expansion listed below. Panel material fire burning characteristics and weathering have been verified as follows:

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Test Method</th>
<th>Test Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>ASTM D 2950</td>
<td>1.14 g/cm³ (71.16 lb/ft³)</td>
</tr>
<tr>
<td>Bending Strength</td>
<td>ASTM D 4671</td>
<td>3,000 psi</td>
</tr>
<tr>
<td>Modulus of Elasticity</td>
<td>ASTM D 4671</td>
<td>493,000 psi</td>
</tr>
<tr>
<td>Coefficient of Linear Thermal Expansion</td>
<td>ASTM D 696</td>
<td>35.6 x10⁴ mm/mm °C</td>
</tr>
<tr>
<td>Water Absorption and Humidity</td>
<td>ASTM D 1073</td>
<td>Little up to no water absorption. (0.11 % ) (only surface moisture)</td>
</tr>
<tr>
<td>Flame Spread</td>
<td>ASTM E 84</td>
<td>80 (Class C)</td>
</tr>
<tr>
<td>Smoke Index</td>
<td>ASTM E 84</td>
<td>300 (Class C)</td>
</tr>
<tr>
<td>Rate, Extent &amp; Time of Burning</td>
<td>ASTM D 635</td>
<td>CCI</td>
</tr>
<tr>
<td>Spontaneous Self/Ignition Temp.</td>
<td>ASTM D 1929</td>
<td>82°F +</td>
</tr>
<tr>
<td>Flash Ignition Test</td>
<td>ASTM D 1929</td>
<td>800°F +</td>
</tr>
<tr>
<td>Weathering for Outdoor Exposure</td>
<td>ASTM G 155</td>
<td>9.1%</td>
</tr>
</tbody>
</table>

* Test # RJ6449F-1, RJ6449F-2 & RJ6449F-3 by OAI Lab.

** Per Blackwater Testing Inc. Report # BT–NTW–19–001

9. A permanent product manufacturer’s label shall be placed on the exposed surface of the profile. Label shall be read as follows:

Newtechwood America Inc.
Cladding Panel Model US09
Houston, Texas 77032
Miami-Dade County Product Control Approved

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA
**BILL OF MATERIALS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Component</th>
<th>Description</th>
<th>Dimensions</th>
<th>Material</th>
<th>Manufacturer</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Starter Clip</td>
<td>See Component Detail</td>
<td>6063-T5 Alloy</td>
<td>New Tech Wood</td>
<td>Raw Finish Length Model # AW02</td>
<td></td>
</tr>
<tr>
<td>2A</td>
<td>Flat Head Wood Screw</td>
<td>#8-18 x 3/4&quot;</td>
<td>AISI 304 Stainless Steel</td>
<td>New Tech Wood</td>
<td>To Fix 1(5) &amp; 7(6) to QA</td>
<td></td>
</tr>
<tr>
<td>2B</td>
<td>Flat Head Self Drilling Screw</td>
<td>#8-18 x 1/2&quot;</td>
<td>AISI 401 Stainless Steel</td>
<td>New Tech Wood</td>
<td>To Fix 1(5) &amp; 7(6) to QA</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Cladding Panel</td>
<td>See Component Detail</td>
<td>Composite Plastic Wood</td>
<td>New Tech Wood</td>
<td>Cladding System Model # US09</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Locking Screw</td>
<td>#4 x 1/2&quot;</td>
<td>AISI 401 Stainless Steel</td>
<td>New Tech Wood</td>
<td>To Fix 5 to 5</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Mounting Clip</td>
<td>See Component Detail</td>
<td>6063-T5 Alloy</td>
<td>New Tech Wood</td>
<td>Use in Between (3) Model # AW08</td>
<td></td>
</tr>
<tr>
<td>6A</td>
<td>Flat Head Wood Screw</td>
<td>#10-16 x 1 x 1/2&quot;</td>
<td>AISI 304 Stainless Steel</td>
<td>New Tech Wood</td>
<td>To Fix 5 to QA</td>
<td></td>
</tr>
<tr>
<td>6B</td>
<td>Flat Head Self Drilling Screw</td>
<td>#10-16 x 1 x 3/16&quot;</td>
<td>AISI 401 Stainless Steel</td>
<td>New Tech Wood</td>
<td>To Fix 5 to QA</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Spacer</td>
<td>See Component Detail</td>
<td>Rubber</td>
<td>New Tech Wood</td>
<td>Support for 3 Fixed to Existing Structure W/ 10</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Trim Cover</td>
<td>See Component Detail</td>
<td>Composite Plastic Wood</td>
<td>New Tech Wood</td>
<td>Use at End, Optional to QA W/ QA, QA to QA, QA Model # 1-7</td>
<td></td>
</tr>
<tr>
<td>6A</td>
<td>Wood Subframe</td>
<td>2.00&quot; x 1.00&quot; (Nominal) x Cont.</td>
<td>Pin Southern Pine</td>
<td>-</td>
<td>Support for 3 Fixed to Existing Structure W/ 10</td>
<td></td>
</tr>
<tr>
<td>9B</td>
<td>Tube Subframe</td>
<td>1.00&quot; x 0.50&quot; x 0.059&quot; THK</td>
<td>6063-T5 Alloy</td>
<td>New Tech Wood</td>
<td>Support for 3 Fixed to Existing Structure W/ 10</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Fasteners for 6A, 6B</td>
<td>1/4&quot; Flat Head Ultracons</td>
<td>AISI 410 Stainless Steel</td>
<td>Elco Const. Products</td>
<td>See Anchor Schedule on Sheet 5</td>
<td></td>
</tr>
</tbody>
</table>

**COMPONENTS**

- **1** Starter Clip 1.10" Long
- **2A** Flat Head Wood Screw
- **2B** Flat Head Self Drilling Screw
- **6A** Flat Head Wood Screw
- **6B** Flat Head Self Drilling Screw
- **9A** Wood Subframe
- **9B** Tube Subframe

*Coating is a gap layer made of polyethylene based compounded polymer w/ 56 hardness provided by New Tech Wood America Inc.*
TYPICAL CONNECTION OF 9A & 9B TO EXISTING STRUCTURE
(VERTICAL SECTION)

N.T.S.
**SECTION B-B**

N.T.S

20.00" MAX. (CONCRETE & CONCRETE BLOCK WALL) AND 16" O.C MAX. (WOOD WALL)

**SECTION C-C**

20.00" MAX. (CONCRETE & CONCRETE BLOCK WALL) AND 16" O.C MAX. (WOOD WALL)

EXISTING MIN. 4" THK., t''=3Ksi POURED CONCRETE OR ASTM C-90 CONCRETE BLOCK OR MIN. 2X G=0.55 16" O.C. WOOD STUD WALL.

(SEE NOTE 2/1)
## Anchor Schedule:

### Substrate at Wall or Ceiling

<table>
<thead>
<tr>
<th>Anchor Type</th>
<th>Concrete (Min. f'c=3000 psi AT 28 Days)</th>
<th>Concrete Block Wall (ASTM C-90)</th>
<th>Wood (Min. G= 0.55)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MIN. E.D.</td>
<td>MIN. EMB.</td>
<td>MAX. SPC.</td>
</tr>
<tr>
<td>10</td>
<td>1&quot;</td>
<td>1 3/4&quot;</td>
<td>12&quot; O.C.</td>
</tr>
</tbody>
</table>

**Note:** MIN. E.D. & Embedment are beyond any finish material at existing wall (see note 2/1)

- **MUST COINCIDE WITH LOCATION OF EXISTING 2x WOOD STUDS SPACED @ 16" O.C @ EXISTING WALL (SEE NOTE 2/1).**
- MAX. 12" O.C INDICATED SPACING IS VERTICAL SPACING ALONG EXISTING STUD'S HEIGHT.
- MIN. 1" EMBEDMENT IS AT EXISTING 2x WOOD STUD BEYOND ANY EXISTING SHEATHING AND WALL FINISH. SHEATHING MUST COMPLY WITH SECTIONS 1625.4(2), 1404.2 OF THE FLORIDA BUILDING CODE.
- FASTENER MUST BE INSTALLED AS MIDWIDTH OF EXISTING 2x STUD.