Miami-Dade County Building

Product Information for N.O.A. 19-0326.04

NOA
19-0326.04

Superseded_By

File Status
File Approved

File Classification
High velocity hurricane zone

Category
Panels

Subcategory
Wall

Material
Cementitious

Applicant
GigaCrest Inc. on-event detail gpc app2gpc slave=1f4f4f1

Expiration_Date
May/30/2024

Impact_Rate
Large and Small Missile Impact

Maximum_Design_Pressure_Positive
100

Maximum_Design_Pressure_Negative
100

Description
GigaCrest Steel Frame Building System

Green_Sustainable_Attributes
NONE

For a detailed description on the File Status, click the N.O.A. File Status Key at (building)result_file_app.asp.

NOTICE OF ACCEPTANCE (NOA)

GigaCrete, Inc.
4550 Engineers Way, Suite #101
North Las Vegas, NV 89081

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GigaCrete Exterior Wall Panel System

APPROVAL DOCUMENT: Drawing No. 19-008, titled “GigaCrete Exterior Wall Panel System”, sheets 1 through 13 of 13, prepared by Tilteco, Inc., dated January 30, 2019, signed and sealed by Walter A. Tillit Jr., P.E., on February 15, 2019 bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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

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

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

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

NOA No. 19-0326.04
Expiration Date: 05/30/2024
Approval Date: 05/30/2019
Page 1
NOTICE OF ACCEPTANCE:  EVIDENCE SUBMITTED

A. DRAWINGS

B. TEST
1. Test report on Large Missile Impact test per TAS 201, Cyclic Wind Pressure test per TAS 203 and Uniform Static Air Pressure test and Air & Water Infiltration tests per TAS 202 and ASTM E 72-98 on Composite Wall Panels over Galvanized Steel Studs, prepared by Blackwater Testing, Inc., report No. BT-GIC-18-002, dated 02/11/2019, signed and sealed by Constantin Bortes, P.E.
2. Test report on Heat Release and Flame Spread on Composite Wall Panels over Galvanized Steel Studs, prepared by Intertek, report No. G100017878COQ-004 rev 1, dated 05/18/10, revised on 06/07/10, signed by Greg Philp.

C. CALCULATIONS
1. Panel allowable calculation and Anchors' verification prepared by Walter A. Tillit Jr., P.E. dated February 08, 2019, signed and sealed by Walter A. Tillit Jr., P.E.

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

E. MATERIAL CERTIFICATION
1. Copy of N.O.A. # 17-1207.05.

F. OTHERS

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 19-0326.04
Expiration Date: 05/30/2024
Approval Date: 05/30/2019
GENERAL NOTES:

1. THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) APPLIES ONLY TO THE WALL PANEL SYSTEM INDICATED AND SPECIFIED ON THIS DRAWING AND HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2017 (6TH EDITION) OF THE FLORIDA BUILDING CODE.

2. DESIGN WIND LOADS TO OBTAIN A BUILDING PERMIT SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, USING ASCE 7-10 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE WITH THE MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.

3. DESIGN DEAD AND LIVE LOADS SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1607 OF THE FLORIDA BUILDING CODE, AND AS PER ASCE 7-10 STANDARD.

4. BUILDING DIMENSIONS, DETAILS, UPLIFT, OVERTURNING, FOUNDATION, ROOF AND OTHER ELEMENTS WHERE WALL PANELS WILL BE INSTALLED SHALL BE DESIGNED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT AND REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION.

5. ALL ELECTRICAL, MECHANICAL DETAILS AND PARTS FIRE RATING PROVISIONS ARE NOT PART OF THIS APPROVAL AND SHALL BE PERMITTED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER AND REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION.

6. THIS PRODUCT COMPLIES WITH SECTIONS 2603.3, 2603.4 & 2603.9 OF THE FLORIDA BUILDING CODE.

7. ALL SCREWS SHALL BE CORROSION RESISTANT AS PER DIN 50981 WITH MIN. Fy=92 ksi and Fc=120 ksi.

8. ANCHORS TO CONCRETE FOUNDATION SHALL BE AS FOLLOWS:

   (A) COMPONENT #58
       3/4" x 9" GALVANIZED STEEL ALL THREADED ROU WITH 1/8" 1-1/2" OD WASHERS AS SHOWN ON ELEVATIONS SHEETS 6, 7 & 8. USE 3/4" MINIMUM EMBEDMENT & 4" MINIMUM EDGE DISTANCE.

   (B) COMPONENT #58
       3/4" x 9" GALVANIZED STEEL ALL THREADED ROU WITH 1/8" 1-1/2" OD WASHERS AS SHOWN ON ELEVATIONS SHEETS 6, 7 & 8. USE 3/4" MINIMUM EMBEDMENT & 4" MINIMUM EDGE DISTANCE.

   USE WITH SIMPSON'S STRONG TIE "SET 22" EPOXY ADHESIVE. SEE BILL OF MATERIALS ON SHEET 4.

9. (a) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT. I.E., WHERE THE SITE CONDITIONS DEPART 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 DEPART FROM THE CONDITIONS DETAILLED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR/S RESPONSIBILITY.

   (c) THIS P.A.D. WILL BE CONSIDERED INVALID IF MODIFIED.

10. SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE PROFESSIONAL OF RECORD (P.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. PROFESSIONAL OR RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.A.D. ENGINEER SHALL SUBMIT TO THIS LATTER 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.

11. A PERMANENT PANEL MANUFACTURER'S LABEL SHALL BE PLACED ON THE EXPOSED SURFACE OF THE PANEL. ONE LABEL SHALL BE PLACED FOR EVERY PANEL. LABEL SHALL READ AS FOLLOWS:

   GigaCretè Exteral Wall Panel

   NORTH LAS VEGAS, NV

   MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

   THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA.

   FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

   FLORIDA BUILDING DEPARTMENT

   NORTH MIAMI BEACH, FL

   Date: 1/29/19

   SHEET 1 OF 13

   SEAL/DATE/DEPARTMENT/INSPECTOR
SPECIFICATIONS & APPLICATION SEQUENCE FOR STUCCO MAX ON WALL PANELS MANUFACTURED BY GIGACRETE, INC.

(1.1) DESCRIPTION:
STUCCOMAX is a truly green now portland cement base exterior wall finish coating. Its high early strength is achieved in less than 24 hours and fast setting qualities enable the finish to be applied within a single work day. STUCCOMAX utilizes fiberglass mesh to further enhance its inherent abrasive resistant qualities in thin applications.

(1.2) USES:
STUCCOMAX is applied to exterior walls in residential, commercial, and industrial insulated concrete construction (IIC) and other building systems that utilize expanded polystyrene (EPS) STUCCOMAX is also used as a waterproof barrier. The product can be painted or stained, finished in numerous textures. Interior colors are not yet available.

(1.3) ADVANTAGES:
STUCCOMAX sets and cures in a fraction of the time of conventional portland cement products providing quick job turn-around.

(1.4) SPAN LIFE DESIGN:

(1.4.1) WEATHERING:
STUCCOMAX shall be applied in ambient air temperatures above 60°F and windy and remain above 60°F for a 24 hour period. Wind installing in excessive heat above 80°F unless precautions are made to avoid rapid hydration. Do not apply STUCCOMAX during inclement weather or when inclement weather is inevitable unless appropriate weather protection is used.

(1.4.2) DIRECTIONAL:
Whenever possible, avoid installing STUCCOMAX in direct sunlight. Direct sunlight reduces working time and may promote premature surface hydration. Since the working area if necessary to avoid sun/shade lines, the coating itself, misting the working area in dry conditions will increase the relative humidity (25% maximum) and help the materials from premature hydration. Wet curbing for at least 3 hours is recommended and maintains minimum relative humidity for 24 hours.

(1.5) ACCESSORIES AND RELATED MATERIALS:

(1.5.1) SEALANTS:
Perimeter seal around windows and door frames and all other through wall penetrations shall be designed for 50% elongation and minimum 25% compression. Appropriate sealant shall be selected by the architect. Perimeter seal joints shall be a minimum width of 3/8" and utilize a closed-cell polyurethane foam backer rod. Joint design and application shall be based upon the sealant manufacturer's recommendation.

(1.5.2) FLASHING:
Flash around windows, doors, chimneys, passing between walls and roof and at other points specified shall be continuous and watertight. Flashing shall be designed and installed to prevent water infiltration behind the STUCCOMAX system. Joints shall be installed at all areas where movement is anticipated and at all exterior structural joints. Flashing shall be installed by the architect and shall follow standard plaster/stucco practices.

(1.6) SUBSTRATE PREPARATION:

(1.6.1) CLEANING:
Washing and necessary to remove potential bond breakers and to ensure good adhesion. Survey the substrate for irregularities that may adversely affect the application such as mortar protrusions and voids cut into the EPS need to be filled prior to the STUCCOMAX installation. Low expansion spray foam is applied into the voids allowing to cure and filled flat with the surface.

(1.7) MIXING:

(1.7.1) WATER:
Mixing water must be potable and from a municipal source. Water temperature should be considered and adjusted if necessary.

(1.7.2) MORTAR:
Four (4) quarts of water into the mixing bucket and begin to add STUCCOMAX. Begin mixing while slowly adding in remaining STUCCOMAX bag contents. Mix 时间 is approximately 3 minutes or until a smooth lump free consistency is met. Small amounts of water may be added to adjust material consistency if necessary.

(1.7.3) EQUIPMENT:
Hi/lo drills with typical plaster mixer attachments may be used. Hand held (electrically or air-powered) mixers are acceptable. Avoid excessive high speeds as this can create heat and accelerate setting times. Reducing workability.

(1.7.4) MIX LIFE:
STUCCOMAX bucket life is approximately 20 minutes. Plan the installation so that each batch can be continuously applied within this time frame. Re-serving batches that are beginning to set is strongly discouraged.

(1.8) SPRAY EQUIPMENT:
STUCCOMAX may be applied by hand trowel, hopper gun texture sprayer or stucco/plaster type spray equipment.

(1.9) APPLICATION:
A first 0.5" coat of STUCCOMAX is directed applied to the EPS and worked flat. Mesh is embedded into the first coat working material through while ensuring that the mesh is flat and free of wrinkles. Overlap adhesion mesh by a minimum of 3.5" to 4" ideally. A second pass of STUCCOMAX is immediately applied over the mesh to the specified thickness. This is a true one coat double drop (two passes) method that typically results in a 1" overall thickness.

(1.9.1) MESH:
Mesh gauge 11 gauge per yard are overlapped on all edges a minimum of 2.5. Apply mesh strips on all corners of doors and windows where cracking is likely to occur. These are also pre-cut 2" and 4" snappers and an industry standard finish reducer.

(1.9.2) DROPS TIMING:
Working time depends on material viscosity, temperature and humidity generally, the material is easily applied in approximately 20 minutes. Trained lines and application irregularities may be flattened within 20 minutes of the application. Water muddling will not harm STUCCOMAX. Do not cut of SKIMMERS may occur if the material is not properly applied. A plan to improve the wall profile in the relative short term.

(1.9.3) SURFACE PROTECTION AND DECORATION:

(1.9.4) PAINT:
Exterior masonry type paint primers are recommended prior to final paint coat. Washing the wall surface to remove any dust or contaminants is highly recommended prior to any painting. If the natural STUCCOMAX is preferred it should be sealed with a clear non-staining sealer which will assist reducing stains or water marks caused by rain run-off.

(1.9.5) CURING:
Ensure that STUCCOMAX is allowed to cure in temperatures within the application temperature range. Moist curing for 2 hours is recommended.

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)
(2.6.7) **Surface Protection**

(2.6.7.1) PLASTER MIXTURES SHOULD NOT BE APPLIED TO ALUMINUM OR COPPER SURFACES. IT IS RECOMMENDED THAT A CONSIDERABLE DECORATIVE FINISH TO CURVED PLASTER PANELS BE APPLIED PRIOR TO APPLYING THE STAGING, SPRAYING, OR SPRAY-BLASTING." (2.6.7.3) ALL WASHERS AND WRENCHES MUST BE TIGHTLY HANDLED PRIOR TO APPLYING THE STAGING, SPRAYING, OR SPRAY-BLASTING." (2.6.7.4) CURING: CURING TIMES VARY WIDELY DUE TO TEMPERATURE AND HUMIDITY DIFFERENCES." (2.6.7.5) LIMITATIONS: 1. DO NOT USE IN WET OR RAINY CONDITIONS." 2. DO NOT USE IN WINDY CONDITIONS." 3. METAL SURFACES SUCH AS EXTRUDED, STAINLESS STEEL, OR BRASS, SHOULD NOT BE DIRECTLY CONTACTED." (2.6.7.6) Careful attention should be paid to the following precautions when applying the mixture:

- **Cleanliness**: The surface to be coated must be clean and free from dust, oil, grease, and other contaminants.
- **Moisture Control**: The substrate must be adequately moistened prior to application.
- **Mixing**: The mixture must be thoroughly mixed according to the manufacturer's instructions.
- **Application**: Application should be done uniformly and smoothly to avoid air entrapment.
- **Curing**: Curing should be done in areas protected from direct sunlight and rain.
- **Protection**: The coated surface should be protected from physical damage during the curing period.

(2.6.7.7) **FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)**

- M.F.
- DRAIN: 01
- NORTH LAS VEGAS, NV 89011
- DATE: 1/29/91
- DRAWING NO: 19-008
- SHEET 3 OF 12

**GigaCrete Exterior Wall Panel System**

- **No. 44167**, TILCO INC.
- 4010 CROSSTOWN, SUITE 101
- NORTH LAS VEGAS, NV 89011
- PHONE: 702-267-1000
- WALTER A. TULL, JR., P.E.
- FLORIDA LIC. # 44167

**WATER AND DRY AIR MOVEMENT**: Strictly follow GigaCrete specifications for temperature, humidity, size, and direction of air movement.

**Direct Sunlight**: Direct sunlight during the installation and curing may cause premature surface cracking.

**Moisture Control**: Ensure the substrate is dry and free from moisture to prevent premature curing.

**Surface Preparation**: Preparing the surface is critical to ensure a successful application.

**Application**: The mixture must be applied uniformly and smoothly.

**Curing**: Curing should be done in areas protected from direct sunlight and rain.

**Protection**: The coated surface should be protected from physical damage during the curing period.
# BILL OF MATERIALS

<table>
<thead>
<tr>
<th>COMPONENT No.</th>
<th>DESCRIPTION</th>
<th>DIMENSIONS</th>
<th>MATERIAL</th>
<th>MANUFACTURER</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>WALL STUD</td>
<td>1 5/8&quot; X 3 5/8&quot; X 16 GAUGE W/ 5/8&quot; LIP</td>
<td>ASTM A-653 GRADE 40 6-60 GALV. STEEL</td>
<td>—</td>
<td>USE (3) EACH 48&quot; WIDE SOLID PANEL. (F_y=46.1) ksi; (F_u=55.8) ksi</td>
</tr>
<tr>
<td>④</td>
<td>72&quot; LONG LINTEL STUD</td>
<td>1 5/8&quot; X 6&quot; X 18 GAUGE W/ 5/8&quot; LIP</td>
<td>ASTM A-653 GRADE 40 6-60 GALV. STEEL</td>
<td>—</td>
<td>USE (2) EACH 72&quot; LONG LINTEL. (F_y=46.1) ksi; (F_u=55.8) ksi</td>
</tr>
<tr>
<td>②</td>
<td>TOP AND BOTTOM TRACKS</td>
<td>1 5/8&quot; X 3 3/4&quot; X 18 GAUGE CHANNEL</td>
<td>ASTM A-653 GRADE 40 6-60 GALV. STEEL</td>
<td>—</td>
<td>FIT(1) TO(2) TOP &amp; BOTTOM &amp; FASTEN W/ (2) Ø AT TOP &amp; (2) Ø AT BOTTOM. (F_y=46.1) ksi; (F_u=55.8) ksi</td>
</tr>
<tr>
<td>③</td>
<td>FASTENER FOR (2) &amp; (1)</td>
<td>#10-16 X 3/4&quot; F.H. SELF DRILLING SCREW</td>
<td>COATED STEEL, GRADE 5</td>
<td>—</td>
<td>USE (2) EACH SIDE EACH (2) TO (1) Ø TOP &amp; BOTTOM</td>
</tr>
<tr>
<td>④</td>
<td>EXTERIOR STUCCO</td>
<td>1/4&quot; THICK STUCCO MAX &quot;</td>
<td>NON PORTLAND CEMENT BASED EXTERIOR WALL FINISH COATING</td>
<td>GIGACRETE INC.</td>
<td>USE W/ (1) 11 OUNCE/72 FIBERGLASS MESH AT MID-THICKNESS, APPLY OVER (6) SEE SHEET 2</td>
</tr>
<tr>
<td>⑤</td>
<td>INTERIOR VENEER PLASTER</td>
<td>3/16&quot; THICK PLASTER MAX.</td>
<td>INTERIOR WALL FINISH COATING</td>
<td>GIGACRETE INC.</td>
<td>USE W/ (1) 11 OUNCE/72 FIBERGLASS MESH AT MID-THICKNESS, APPLY OVER (6) SEE SHEET 3</td>
</tr>
<tr>
<td>⑥</td>
<td>APPROVED INTERIOR FOAM INSULATION</td>
<td>6&quot; THICK</td>
<td>EPS/EXPANDED POLYSTYRENE TYPE 1 (1 p.c.f.) DENSITY</td>
<td>DIPLAST PRODUCTS LLC W/FDA</td>
<td>INCLUDES CUTS TO FIT (1) AND (2)</td>
</tr>
<tr>
<td>⑦</td>
<td>ALL THREAD ANCHOR W/SET 22</td>
<td>3/4&quot; Ø X 5&quot; ALL THREADED RODS W/ 1/8&quot; X 1 1/2&quot; O.D WASHERS</td>
<td>GALVANIZED STEEL RODS</td>
<td>SIMPSON STRONG-TIE</td>
<td>USE AT (2) Ø 24&quot; O.C EACH 48&quot; SOLID PANEL W/ 6 1/2&quot; MIN. EMBEDMENT &amp; 4&quot; EDGE DISTANCE</td>
</tr>
<tr>
<td>⑧</td>
<td>ALL THREAD ANCHOR W/SET 22</td>
<td>3/4&quot; Ø X 5&quot; ALL THREADED RODS W/ 1/8&quot; X 1 1/2&quot; O.D WASHERS</td>
<td>GALVANIZED STEEL RODS</td>
<td>SIMPSON STRONG-TIE</td>
<td>USE AT (2) Ø 48&quot; O.C W/ (2) BUTT SPLICE RODS W/ 4&quot; COUPLING W/ 6 1/2&quot; MIN. EMBEDMENT INTO CONCRETE &amp; 4&quot; EDGE DISTANCE</td>
</tr>
<tr>
<td>⑨</td>
<td>PLATE WASHER FOR 78</td>
<td>1/4&quot; X 2 3/4&quot; X 2 3/4&quot;</td>
<td>ASTM A-36 COATED STEEL</td>
<td>—</td>
<td>USE (2) EACH 78&quot; (TOP &amp; BOTTOM)</td>
</tr>
<tr>
<td>⑩</td>
<td>BOTTOM TRACK 2 SEALER</td>
<td>1/8&quot; THK. X 3 5/8&quot; CONT.</td>
<td>FOAM/DOW GASKET</td>
<td>—</td>
<td>USE UNDER (2) (BOTTOM) CONTINUOUS</td>
</tr>
</tbody>
</table>

## COMPONENTS

### TOP AND BOTTOM TRACKS

1. WALL STUD
2. 72" LONG LINTEL STUD

### OTHER COMPONENTS

- RACKING STRAP
- PLATE WASHER FOR 78

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**Bill of Materials Summary**

GigaCrete Exterior Wall Panel System

**License Information**

- Miami Dade County
- State of Florida
- License No. 44167

**Florida Building Code (High Velocity Hurricane Zone)**

Walter A. Tillo Jr.

**Tileco, Inc.**

Tillett Testing & Engineering Company

Address: 400 W. 6th St., Suite 201, North Las Vegas, NV 89030

**MFR. DRAWN BY:**

WALTER A. TILLO, P.E.

**FLORIDA LICENSE NO.:**

19008

**DATE:**

1/30/19

**SHEET 4 OF 15**
SECTION C-C AT WINDOW PANEL
(ISOMETRIC VIEW)

SCALE: N.T.S

* NOTE: ROOF CONNECTION NOT SHOWN FOR CLARITY

TYPICAL WINDOW PANEL FRAMING

POURED CONCRETE
8" MIN. THICK. REQ'D

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

GigaCrete Exterior Wall Panel System

WALTER A. TILLEY, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
NO. 44167

1/30/10

19-008

SHEET 9 OF 13
SECTION C-C AT DOOR PANEL
(ISOMETRIC VIEW)
SCALE: N.S.

* NOTE: ROOF CONNECTION NOT SHOWN FOR CLARITY

DETAIL 2: STUD TRACK ATTACHMENT DETAIL
(TYP. TOP & BOTTOM, FRONT & REAR)