



PRODUCT: *ProGUARD*[®] Concrete Insulated Sheathing Panels
DIVISION: WOOD, PLASTICS, AND COMPOSITES (06)
SECTION: Insulated Sheathing (061613)

Report Holder:

T Clear Corporation
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Manufacturing Location(s):
As noted above

1. SUBJECT
ProGUARD[®] Concrete Insulated Sheathing Panels

2. SCOPE

NTA, Inc. has evaluated the above product(s) for compliance with relevant sections of the following codes:

- 2009, 2006 International Building Code (IBC)
- 2009, 2006 International Residential Code (IRC)

NTA, Inc. has evaluated the following properties of the above product(s):

- Negative and positive wind pressure in accordance with ASTM E330 Procedure B.
- NFPA 285 Standard Method of Test for the evaluation of Flammability Characteristics of Exterior Nonload-Bearing Wall assemblies Containing Combustible Components

3. USES

ProGuard[®] Concrete Insulated Sheathing Panels are used as exterior walls cladding in buildings of combustible non-fire-resistance-rated construction, Type V construction.

4. DESCRIPTION**4.1. General**

ProGuard[®] Concrete Insulated Sheathing Panels are prefabricated panels with a facing of cement board bonded to an extruded or expanded polystyrene foam insulation backer. The panels are used as sheathing and finishing systems for light commercial structures. The panels are 2-1/4 inches thick and produced in a standard size of 36-in wide by 96-in long.

4.2. Materials

4.2.1. Backer. Backer material is extruded or expanded polystyrene foam plastic, 2-inches thick. The foam plastic backer has a nominal density of 2.0 pcf and is manufactured in a 2-inch thickness for use in panel fabrication.

4.2.2. Facing. The facing material is 1/4-inch-thick Util-A-Crete-concrete, glass-fiber-mesh-reinforced panels manufactured by FinPan, Inc.

4.2.3. Adhesive. The facing material is bonded to the backer using a proprietary adhesive manufactured by T Clear Corporation. The adhesive is a Type II, Class 2, cementitious product composed of Type I Portland cement, Type F fly ash, and a latex/water emulsion.

5. INSTALLATION

5.1. *ProGuard*[®] Concrete Insulated Sheathing shall be installed in accordance with the manufacturer's published installation instructions and this evaluation report. The manufacturer's published installation instructions and this report shall be strictly adhered to, and a copy of the instructions shall be available at all times on the jobsite during installation. The installation instructions within this report govern if there is any conflict between the manufacturer's instructions and this report.

5.2. Where required by the authority having jurisdiction, cladding systems utilizing *ProGuard*[®] Concrete Insulated Sheathing shall be designed by a registered design professional. Drawings shall be provided that bear the design professional's registered stamp or seal when application is made for a building permit. Such drawings shall contain specific instructions with regard to connections, erection, and installation of the panels, and shall be available at all times on the jobsite during installation.

5.3. Support Framing. Install on vertical framing only. Framing shall be spaced not to exceed 16-inches on center and shall have a minimum width of 1.5-inches. Strength of support framing shall be assessed by others to resist all code required loads. Fastener pullout or withdrawal from framing must be designed and may require a closer fastener spacing than required herein.

This listing report is intended to indicate that NTA Inc. has evaluated product described and has found it to be eligible for labeling. Product not labeled as specified herein is not covered by this report. NTA Inc. makes no warranty, either expressed or implied, regarding the product covered by this report.

5.3. Attachment. Secure with #14 x 3-in. 5/8 diameter Wafer Head Fastener spaced 6-in on center along the stud line support members.

5.4. Exterior Finish. Panels, at the time of their erection and placement, shall be covered on the exterior by an approved weather resistive wall covering. All exterior panel joints must be sealed with latex thin set mortar or a compatible acrylic latex caulk.

5.5. Thermal Barrier. Foam backing shall be separated from the interior of the building by an approved thermal barrier of 0.5-inch gypsum wallboard or equivalent.

6. CONDITIONS OF USE

ProGuard® Concrete Insulated Sheathing as described in this report has been evaluated to the codes listed in Section 2.0, subject to the following conditions:

6.1. Installation complies with this report and the manufacturer's installation instructions.

6.2. Where required by the authority having jurisdiction, structures using *ProGuard® Concrete Insulated Sheathing* shall be designed by a registered design professional. Construction documents, including engineering calculations and drawings providing floor plans, window details, door details, and connector details, shall be submitted to the code official when application is made for a permit. The individual preparing such documents shall possess the necessary credentials regarding competency and qualifications as required by the applicable code and the professional registration laws of the state where the construction is undertaken. These documents are not covered by this report.

6.3. Design loads to be resisted shall be determined based on the design loads in the applicable code. Loadings on the panels shall not exceed those noted in this report.

6.4. The panels are manufactured in the production facility(ies) noted in this report and under a quality control program approved by NTA, Inc.

7. EVIDENCE SUBMITTED

NTA, Inc. has examined the following evidence to evaluate this product:

7.1. Review of in-plant quality assurance manual

7.2. Plant certification inspection of manufacturer's production facilities, test procedures, frequency and quality control sampling methods, test equipment and equipment calibration procedures, test records, dates and causes of failures when applicable.

7.3. Qualification test data for characteristics listed in Section 2.

7.4. Follow-up quality assurance audits of the production facility(ies)

7.5. Follow-up testing in accordance with NTA, Inc. *Inspection Method* IM14

Evaluation evidence and data are on file with NTA, Inc. NTA, Inc. is accredited by the International Accreditation Service (IAS) as follows:

ISO17020 Inspection Agency (AA-682)

ISO17025 Testing Laboratory (TL-259)

ISO Guide 65 Product Certification Agency (PCA-102)

The scope of accreditation related to testing, inspection or product certification pertain only to the test methods and/or standard referenced therein. Design parameters and the application of building code requirements, such as special inspection, have not been reviewed by IAS and are not covered in the accreditation. Product evaluations are performed under the direct supervision of Professional Engineers licensed in all jurisdictions within the United States as required by the building code and state engineering board rules.

8. FINDINGS

All panels are manufactured under an in-plant Quality Assurance program to insure that the production quality meets or exceeds the requirements of the codes noted herein and the criteria as established by NTA, Inc. Furthermore, panels must comply with the conditions of this report.

This report expires one year from the issue date noted below.

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**9. IDENTIFICATION**

Each eligible panel shall be permanently marked to provide the following information:

- a) The NTA Inc. listing mark, shown below;
- b) NTA's Listing No. TCC022305-25;
- c) Manufacturer's name or trademark;
- d) Product name;
- e) Batch number or production date.

**Allowable Pressures (psf)**

Direction of Load	Allowable Pressure¹ (psf)
Inward Acting	109
Outward Acting	-79

¹ Factor of Safety 3.0 against failure, deflection less than L/600 at allowable pressures.

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