

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

# **NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY, FLORIDA PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

PGT Industries, Inc. 1070 Technology Drive North Venice, FL 34275

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: Series "DH2760" PVC Double Hung Window - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **08-00884**, titled "DH2760 PVC Double Hung Window Impact", sheets 1 through 7 of 7, dated 10/27/09, with **E** dated 05/20/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

# MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved" and American Architectural Manufacturers Association Permanent Label Requirements, 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 revises and renews NOA No. 11-1013.20 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 Manuel Perez, P.E.

MIAMI-DADE COUNTY
APPROYED

16/5/15

NOA No. 13-1125.02 Expiration Date: September 22, 2020 Approval Date: June 11, 2015

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### PGT Industries, Inc.

## **NOTICE OF ACCEPTANCE:** EVIDENCE SUBMITTED

#### A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- Drawing No. 08-00884, titled "DH2760 PVC Double Hung Window Impact", sheets 1 through 7 of 7, dated 10/27/09, with revision E, dated 05/20/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

#### B. TESTS

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 2) Large Missile Impact Test per FBC, TAS 201-94
  - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
  - 5) Operating Force per ASTM E 2028-08

along with marked-up drawings and installation diagram of series DH-2860 white PVC double hung windows, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. FTL-7486, dated 08/12/13, signed and sealed by Jorge A. Naya, P.E.

- 2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of series DH-2760 and series DH-2860 white PVC double hung windows, prepared by National Certified Testing Laboratories, Inc., Test Reports No. NCTL 210-3637-1, dated 01/31/08 and NCTL-210-3641-1, dated 02/13/09, all signed and sealed by Gerard J. Ferrara, P.E. (Submitted under NOA No. 09-1103.07)

### C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC 5<sup>th</sup> Edition (2014), prepared by manufacturer, dated 10/07/11 and updated on 05/22/15, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Glazing complies with ASTM E1300-04/09

#### D. QUALITY ASSURANCE

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

Manuel Perez, P.E. Product Control Examiner NOA No. 13-1125,02

Expiration Date: September 22, 2020 Approval Date: June 11, 2015

# PGT Industries, Inc.

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 13-0129.27 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite® PVB Interlayer" dated 04/11/13, expiring on 12/11/16.
- 2. Notice of Acceptance No. 11-0624.02 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont SentryGlas® Interlayer" dated 08/25/11, expiring on 01/14/17.
- 3. Notice of Acceptance No. 12-0420.01 issued to L.B. Plastics, Inc. for their "Florida Bronze Color Laminated White Rigid PVC Exterior Extrusions" dated 12/06/12, expiring on 12/30/15.
- 4. Notice of Acceptance No. 10-1208.02 issued to L.B. Plastics, Inc. for their "White Rigid PVC Exterior Extrusions" dated 12/30/10, expiring on 12/30/15.

#### F. STATEMENTS

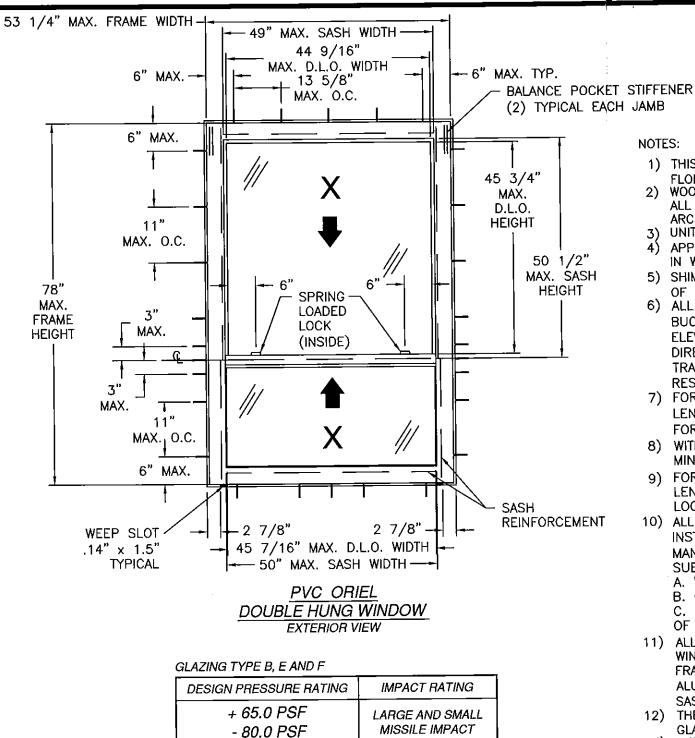
- 1. Statement letter of conformance, complying with FBC-2010 and with FBC-5<sup>th</sup> Edition (2014), issued by manufacturer, dated 05/22/15, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Statement letter of no financial interest, issued by manufacturer, dated 11/14/13, signed and sealed by Anthony Lynn Miller, P.E.
- 3. Laboratory compliance letter for Test Report No. FTL-7486, issued by Fenestration Testing Laboratory, Inc., dated 08/12/13, signed and sealed by Jorge A. Naya, P.E.
- 4. Proposal issued by Product Control, dated 04/30/13, signed by Jaime D. Gascon, P.E.
- 5. Laboratory addendum letters for Test Reports No. NCTL-210-3637-1 and NCTL-210-3641-1, both issued by National Certified Testing Laboratories, Inc., dated 04/06/10, signed and sealed by Gerard J. Ferrara, P.E. (Submitted under NOA No. 09-1103.07)

#### G. OTHERS

1. Notice of Acceptance No. 11-1013.20, issued to PGT Industries, Inc. for their Series "DH-2760 and DH-2860, Vinyl" White PVC Double Hung Windows – L.M.I., approved on 12/08/11 and expiring on 09/22/15.

Manuel Perex, P.E. Product Control Examiner NOA No. 13-1125,02

Expiration Date: September 22, 2020 Approval Date: June 11, 2015



REVISIONS APPROVED DATE DESCRIPTION REV ADDED GLASS TYPE F, UPDATED TO FBC 5TH ED. JR 05/20/15

#### NOTES:

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE

FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
2) WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.

UNITS MUST BE GLAZED PER ASTM E1300 SEE SHEET 7 FOR APPROVED GLASS TYPES.

APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND-BORNE DEBRIS REGIONS.

5) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".

6) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. WOOD BUCKS ARE OPTIONAL, UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR)

7) FOR INSTALLATION INTO WOOD FRAMING OR 2X BUCKS, USE #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1-3/8" MIN. EMBEDMENT INTO SUBSTRATE WITH 13/16" MIN. EDGE DISTANCE. FOR INSTALLATION THROUGH 1X WOOD BUCKS INTO CMU/MASONRY, USE 3/16" ITW TAPCON ANCHOR

8) WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/4" MIN. EMBEDMENT INTO SUBSTRATE WITH 2-5/8"" MIN. EDGE DISTANCE.

9) FOR ANCHORING INTO METAL FRAMING USE #10 TEK SELF TAPPING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT" OF THREE THREADS PAST THE FRAME THICKNESS. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

10) ALL FASTENERS TO BE CORROSION RESISTANT. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW: A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42

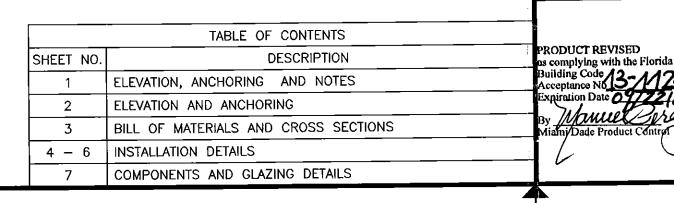
B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.

CONCRETE MASONRY UNIT, CMU - NORMAL WEIGHT AND COMPRESSIVE STRENGTH, FC OF MINIMUM 1.9 KSI. CONFORMS TO ASTM C90.

11) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS. FRAME MATERIAL: EXTRUDED RIGID PVC .075" THICK. VERTICAL JAMBS UTILIZE ALUMINUM 6063-T5 REINFORCEMENT BARS/POCKET STIFFENERS. SASH MATERIAL: EXTRUDED RIGID PVC .10" THICK WITH REINFORCEMENT BARS.

12) THE 2760 SERIES USES A EITHER A PVB OR SENTRYGLAS, (SG) INTERLAYER. UNITS GLAZED WITH GLASS CONTAINING AN SG INTERLAYER WERE PREVIOUSLY KNOWN AS THE 2860 SERIES.

13) REFERENCE L.B. PLASTICS, INC NOA'S FOR FLORIDA-BRONZE LAMINATED & WHITE RIGID PVC



PGT INDUSTRIES 1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275

DH2760 PVC DOUBLE HUNG WINDOW IMPACT ELEVATION, ANCHORING AND NOTES

DWG NO. DRAWN: E 08-00884 TJH SHEET 1 OF 7 SCALE NTS DATE 10/27/09

THOMY LYNN MILLES · VCENSE

MILLERY

