

Windows

65346

Pella Corporation
102 Main Street
Pella, Iowa 50219
Toll Free 800-54-PELLA
Phone 641-621-1000
Website www.pella.com

JAN 2023

Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The CSI Construction Specifications Practice Guide*.

This section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" after editing this section.

Section numbers and titles are from *MasterFormat 2011 Update*.

SECTION 08 53 13

VINYL WINDOWS

Specifier Notes: This section covers Pella® 250 Series vinyl windows. Frame and sash are manufactured from extruded, rigid, polyvinyl chloride (uPVC) material, with heat-fused mitered corners for a fully welded corner assembly. Consult your local Pella representative for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Vinyl awning windows.

1.2 RELATED REQUIREMENTS

Specifier Notes: Edit the following list of related sections as necessary. Limit the list to sections with specific information that the reader might expect to find in this section, but is specified elsewhere.

- A. Section 07 27 00 – Air Barriers: Water-resistant barrier.
- B. Section 07 92 00 – Joint Sealants: Sealants.

1.3 REFERENCE STANDARDS

Specifier Notes: List standards referenced in this section, complete with designations and titles. Delete standards not included in the edited section. Including a standard in this list does not require compliance with that standard.

A. American Architectural Manufacturers Association (AAMA):

1. AAMA 303 - Voluntary Specification for Poly (Vinyl Chloride) (uPVC) Exterior Profile Extrusions; American Architectural Manufacturers Association.
2. AAMA 502 – Voluntary Specification for Field Testing of Newly Installed Fenestration Products.
3. AAMA 307 – Voluntary Performance Requirements and Test Procedures for Organic Coatings on Plastic Profiles.

B. ASTM International (ASTM):

1. ASTM C 1036 – Standard Specification for Flat Glass.
2. ASTM C 1048 – Standard Specification for Heat-Treated Flat Glass—Kind HS, Kind FT Coated and Uncoated Glass.
3. ASTM D 1929 – Standard Test Method for Determining Ignition Temperature of Plastics.
4. ASTM D 3656 – Insect Screening and Louver Cloth Woven from Vinyl-Coated Glass Yarns.
5. ASTM E 330 – Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
6. ASTM E 1105 – Standard Test Method for Field Determination of Water Penetration of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
7. ASTM F 588 – Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact.

C. Screen Manufacturers Association (SMA):

1. SMA 1201 – Specifications for Insect Screens for Windows, Sliding Doors and Swinging Doors.

D. Window and Door Manufacturers Association (WDMA):

1. AAMA/WDMA/CSA 101/I.S.2/A440 – North American Fenestration Standard/Specification for Windows, Doors, and Skylights.

1.4 SUBMITTALS

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions.

Specifier Notes: Delete the following sentence if shop drawings are not required.

- C. Shop Drawings: Submit manufacturer's shop drawings, indicating dimensions, construction, component connections and locations, anchorage methods and locations, hardware locations, and installation details.

Specifier Notes: Delete the following sentence if samples are not required.

- D. Samples: Submit full-size or partial full-size sample of vinyl double-hung windows illustrating glazing system, quality of construction, and color of finish.
- E. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- F. Cleaning and Maintenance Instructions: Submit manufacturer's cleaning and maintenance instructions.
- G. Warranty Documentation: Submit manufacturer's standard warranty.

1.5 QUALITY ASSURANCE

- A. Installer's Qualifications:
 - 1. Installer regularly engaged, for past 5 years, in installation of vinyl double-hung windows of similar type to that specified.
 - 2. Employ persons trained for installation of vinyl double-hung windows.

Specifier Notes: Edit the following paragraph as required for inclusion of field testing.

- B. Mock-ups:
 - 1. Provide sample installation for field testing window performance requirements and to determine acceptability of window installation methods.
 - 2. Approved mock-ups shall represent minimum quality required for the Work.

Specifier Notes: Edit the following sentence as required for inclusion of the mock-ups.

- 3. Approved mock-ups shall [not] remain in place within the Work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery:
 - 1. Deliver windows to site undamaged in manufacturer's or sales branch's original, unopened containers and packaging, with labels clearly identifying manufacturer and product name.
 - 2. Include installation instructions.
- B. Storage and Handling:
 - 1. Store and handle windows in accordance with manufacturer's instructions.
 - 2. Store windows off ground and under cover.

3. Provide full support under framework when storing, handling, and installing windows.
4. Allow sufficient spacing between windows during storage for ventilation.
5. Do not lift windows by head member only.
6. Protect windows from weather, direct sunlight, and construction activities.
7. Protect windows and finish during handling and installation to prevent damage.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Pella Corporation, 102 Main Street, Pella, Iowa 50219. Toll Free 800-54-PELLA. Phone 641-621-1000. Website www.pella.com.

2.2 PERFORMANCE REQUIREMENTS

Specifier Notes: Performance ratings for Pella® 250 Series vinyl Awning windows may vary by product and size. Current performance information is found in the Pella Architectural Design Manual at www.pellaadm.com.

Specify Standard Performance or Performance Upgrade. Consult your local Pella representative for more information.

- A. Casement and Awning Standard Performance:
 1. Meets or exceeds AAMA/WDMA/CSA 101/I.S.2/A440 Ratings: LC-PG35, WDMA Hallmark Certified.
 2. Unit assembly shall withstand both positive and negative uniform static air pressure difference without damage when tested according to ASTM E 330.
 3. Air Infiltration, 1.57 psf wind pressure: 0.30 cfm/ft² of frame.
 4. Design Pressure: 35 psf.
 5. Water Penetration Resistance: 5.43 psf.
- B. Casement and Awning Performance Upgrade:
 1. Meets or exceeds AAMA/WDMA/CSA 101/I.S.2/A440 Ratings: LC-PG50, WDMA Hallmark Certified.
 2. Unit assembly shall withstand both positive and negative uniform static air pressure difference without damage when tested according to ASTM E 330.
 3. Air Infiltration, 1.57 psf wind pressure: 0.30 cfm/ft² of frame.
 4. Design Pressure: 50 psf.
 5. Water Penetration Resistance: 7.52 psf.
- C. Hung and Sliding Standard Performance:
 1. Meets or exceeds AAMA/WDMA/CSA 101/I.S.2/A440 Ratings: R-PG20 to R-PG35, WDMA Hallmark Certified.
 2. Unit assembly shall withstand both positive and negative uniform static air pressure difference without damage when tested according to ASTM E 330.
 3. Air Infiltration, 1.57 psf wind pressure: 0.30 cfm/ft² of frame.
 4. Design Pressure: 20 to 35 psf.
 5. Water Penetration Resistance: 3.14 to 5.43 psf.

D. Hung and Sliding Performance Upgrade:

1. Meets or exceeds AAMA/WDMA/CSA 101/I.S.2/A440 Ratings: R-PG50, WDMA Hallmark Certified.
2. Unit assembly shall withstand both positive and negative uniform static air pressure difference without damage when tested according to ASTM E 330.
3. Air Infiltration, 1.57 psf wind pressure: 0.30 cfm/ft² of frame.
4. Design Pressure: 50 psf.
5. Water Penetration Resistance: 7.52 psf.

E. Forced Entry Resistance, ASTM F 588, Minimum Security Grade: 10.

F. Maximum Operating Force:

1. Casement and Awning
 - a. Initiate Motion: 15 lbs
 - b. Maintain Motion: 6 lbs.
2. Hung and Sliding Window
 - a. Initiate Motion: 35 lbs
 - b. Maintain Motion: 20 lbs

G. Meets U.S. ENERGY STAR guidelines.

2.3 VINYL WINDOWS

A. Vinyl Windows: Pella 250 Series.

B. Frame:

1. Interior and Exterior Frame Surfaces: Extruded, rigid, polyvinyl chloride (uPVC) complying with AAMA 303, having minimum ignition temperature 824 degrees F. when tested in accordance with ASTM D 1929.
2. Overall Frame Depth: 3-1/4 inches.
3. Frame Members: Mitered and heat fused to provide fully welded corner.
4. Sill: Fitted with weeps.
5. Frame Type:

Specifier Notes: Specify required frame type.

- a. Setback Nail Fin, 1-1/8 inches: For 2-1/8-inch wall depth.
- b. Setback Nail Fin with J-Channel, 1-1/8 inches: For 2-1/8-inch wall depth.
- c. Block Frame: 3-1/4-inch wall depth.
- d. 5/8" Integral Flange: For 3-inch wall depth.

C. Sash:

Specifier Notes: Foam insulation is optional.

1. Sash Members:

- a. Extruded, rigid, uPVC [with foam insulation] complying with AAMA 303, having minimum ignition temperature 824 degrees F. when tested in accordance with ASTM D 1929.
 - b. Hung windows contain integral extruded sash lift.
 - c. Mitered and heat fused to provide fully welded corner.
2. Contains sealed insulating glass.

D. Glazing:

1. Float Glass: ASTM C 1036.

Specifier Notes: Specify annealed or tempered safety glass.

- a. Glass Type: [Annealed] [Tempered safety glass, ASTM C 1048].
2. Exterior tape-glazed sealed insulating glass.

Specifier Notes: Specify dual-pane or triple-pane insulating glass.

3. Dual-Pane Insulating Glass:

Specifier Notes: Specify total thickness and type of dual-pane insulating glass. Delete glass types not required. Consult your local Pella representative for more information. SunDefense™ Low-E coated insulating glass is a Trademark of Pella Corporation.

- a. Total Thickness: [11/16 inch], [3/4 inch]
- b. Advanced Low-E coated.
- c. Advanced Low-E coated, with argon.
- d. "SunDefense" Low-E coated.
- e. "SunDefense" Low-E coated, with argon.
- f. Bronze Advanced Low-E coated.
- g. Bronze Advanced Low-E coated, with argon.
- h. "NaturalSun" Low-E coated.
- i. "NaturalSun" Low-E coated, with argon.
- j. Obscure: Standard

4. Triple-Pane Insulating Glass:
- a. Total Thickness: 1 inch.

Specifier Notes: Specify type of triple-pane insulating glass. Delete glass types not required. Consult your local Pella representative for more information.

- b. Advanced Low-E coated, with argon.
- c. "NaturalSun" Low-E coated, with argon.
- d. High-Altitude Advanced Low-E coated.
- e. High-Altitude "NaturalSun" Low-E coated.
- f. Obscure: Standard

E. Weatherstripping:

1. Vent Sash: Fin-type, pile and an extruded bulb around perimeter.

2.4 HARDWARE

A. Casement and Awning

1. Roto Operator: Dual arm with fold down crank handle on sill.
2. Locks:
 - a. Factory-installed, zinc-die-cast, single-handle on each jamb, zinc-die-cast, multi-point lock.
 - b. Color: Match to window interior.

B. Hung Window

1. Balances: Inverted Constant Force Stainless Steel Coil Balances.
2. Locks: Factory-installed, zinc-die-cast, self-aligning, [cam-action locks] [autolocks] located on check rail.
 - a. Sash Locks: Two sash locks installed on windows with minimum of 29-1/2 inches frame width.
3. Tilt Latches: Factory-installed, [nylon] [zinc-die-cast], located on check rail of lower sash and the top rail of the upper sash.
4. Fasteners: Corrosion-resistant, PVC-compatible material.
5. Hardware Finish: Matches window interior.

C. Sliding Window

1. Locks: Factory-installed, zinc-die-cast, self-aligning, [cam-action locks] [autolocks] located on the interlocker.
 - a. Sash Locks: Two locks installed on windows with minimum of 36 inches frame height.
2. Rollers: Vent sash are equipped with two nylon roller housings containing two nylon rollers each.
3. Hardware Finish: Match window interior.

Specifier Notes: Limited opening and Window Opening Control Device hardware is optional. Delete if not required.

D. Limited Opening Hardware:

1. Casement and Awning
 - a. Nominal Opening: 3 inches.
 - b. Factory Installed
 - c. Stainless Steel.
2. Hung and Sliding Window
 - a. Nominal Opening: 3-1/4 inches.
 - b. Field Installed
 - c. Finish: Match window interior.

E. Window Opening Control Device:

1. Casement and Awning
 - a. Complies with ASTM F2090-17
 - b. Factory Installed
 - c. Nominal Opening: 4 inches.

- d. Release Mechanism allows normal venting operation
 - e. Stainless Steel.
2. Hung
- a. Complies with ASTM F2090-17
 - b. Factory Installed
 - c. Nominal Opening: 4 inches.
 - d. Release Mechanism allows normal venting operation
 - e. Finish: Match window interior.

Specifier Notes: Screens are fitted to interior of casement and awning windows. All other windows have screens mounted on the exterior.

2.5 SCREENS

- A. Screens:
- 1. Compliance:
 - a. ASTM D 3656.
 - b. SMA 1201
 - 2. Screen Cloth: Black, vinyl-coated, 18/16 mesh, fiberglass screen cloth.
 - 3. Screen set in roll formed coil aluminum frame and fitted to [interior] [exterior] of windows.
 - 4. Double-hung full-size screens for windows with frame width >39" or frame height > 53-1/2" have a screen spreader bar at the Checkrail.
 - 5. Screen Frame Finish: Baked enamel.
 - a. Color: Match window [exterior] [interior].

Specifier Notes: Grilles are optional. Delete if not required.

2.6 GRILLES

Specifier Notes: Specify grilles-between-the-glass if grilles are required.

Grilles-between-the-glass are available on units glazed with dual-pane and triple-pane insulated glass.

- A. Grilles: Grilles-between-the-glass.
- 1. Insulating glass contains aluminum grilles permanently installed between 2 panes of glass.

Specifier Notes: Specify grille profile.

- 2. Profile: [5/8" Flat] [3/4-inch contour].
- 3. Pattern:

Specifier Notes: Specify grille pattern.

- a. Traditional
 - 1) Number of Lites: _____.

- b. 9-Lite Prairie
- c. Top Row
- 4. Color: Match color of interior and exterior frame.

2.7 TOLERANCES

- A. Windows shall accommodate the following opening tolerances:
 - 1. Horizontal Dimensions Between High and Low Points: Plus 1/4 inch, minus 0 inch.
 - 2. Width Dimensions: Plus 1/4 inch, minus 0 inch.
 - 3. Building Columns or Masonry Openings: Plus or minus 1/4 inch from plumb.

2.8 FINISH

- A. Exposed uPVC Surfaces: Smooth, glossy, and uniform in appearance.
- B. Frame Colors:
 - 1. Exterior / Interior:

Specifier Notes: Specify the color. Select option a or b. If b is not selected, delete AAMA 307 from Article 1.3 Reference Standards in this section.

- a. [White] [Almond] [Fossil]: Integral color extruded throughout profiles.
- b. [Brown] [Black] laminate exterior, consisting of a solar reflective coating exceeding AAMA 307 test requirements, with White integral color extruded throughout the profiles on the interior. Laminate thickness is 9.4mm and is made of 75% PVC with a top layer of Polymethyl methacrylate (PMMA).

2.9 INSTALLATION ACCESSORIES

- A. Flashing/Sealant Tape: Pella "SmartFlash".
 - 1. Aluminum-foil-backed butyl window and door flashing tape.
 - 2. Maximum Total Thickness: 0.013 inch.
 - 3. UV resistant.
 - 4. Verify sealant compatibility with sealant manufacturer.
- B. Interior Insulating-Foam Sealant: Low-expansion, low-pressure polyurethane insulating window and door foam sealant.
- C. Exterior Perimeter Sealant: "Pella Window and Door Installation Sealant" or equivalent high quality, multi-purpose sealant as specified in the joints sealant section.

Specifier Notes: Factory-applied jamb extensions for 4-9/16-inch and 6-9/16-inch wall depths are optional. uPVC jamb extensions are only available for 4-9/16" wall depth. If extensions are not required, delete the following paragraph.

- D. Jamb Extensions: Factory-applied, [primed-wood] [unfinished wood] [uPVC] jamb extensions for [4-9/16-inch] [6-9/16-inch] wall depth.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine rough opening to receive vinyl awning windows.
 - 1. Verify rough opening is plumb, level, square, and of proper dimensions.
 - 2. Verify a minimum of 1-1/2 inches of solid wood blocking is installed around perimeter of rough opening.
- B. Notify Architect of conditions that would adversely affect installation or subsequent use.
- C. Do not proceed with installation until unsatisfactory conditions are corrected.

3.2 INSTALLATION

- A. Install vinyl awning windows in accordance with manufacturer's instructions.
- B. Install windows plumb, level, square, and without distortion.
- C. Maintain alignment with adjacent work.
- D. Install windows to be weathertight.
- E. Install windows to be freely operating.
- F. Verify proper operation of operating hardware.

Specifier Notes: The following paragraph applies to vinyl awning windows installed using installation fins only. If the windows are not being installed with installation fins, delete the following paragraph.

- G. Integrate window installation with exterior weather-resistant barrier using flashing/sealant tape.
 - 1. Apply and integrate flashing/sealant tape with weather-resistant barrier using watershed principles in accordance with window manufacturer's instructions.
- H. Seal windows to exterior wall cladding with sealant and related backing materials at perimeter of assembly.
- I. Place interior seal around vinyl window perimeter to maintain continuity of building thermal and air barrier using [backer rod and sealant] [insulating-foam sealant].

- J. Leave windows closed and locked.

Specifier Notes: Field testing is optional. Delete if not required. If Field Quality Control is deleted, delete AAMA 502 from Article 1.3 Reference Standards in this section.

3.3 FIELD QUALITY CONTROL

- A. Field Testing: Field water testing shall be conducted in accordance with ASTM E1105 Test Procedure B. The test pressure shall be based on the maximum positive components and cladding design pressure. Utilizing the AAMA 502 field test reduction, the water test pressure is 10% of the maximum positive design pressure.

3.4 CLEANING

- A. Clean vinyl awning windows in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials or methods that could damage finish, vinyl, or glass.
- C. Remove labels and visible markings.
- D. Keep window tracks clear of dirt and debris.
- E. Keep weep holes open and clear of obstructions.

3.5 PROTECTION

- A. Protect installed vinyl awning windows to ensure that, except for normal weathering, windows will be without damage or deterioration at time of substantial completion.

END OF SECTION

Pella® Vinyl Windows and Doors
Pella 250 Series Single-Hung
Detailed Product Descriptions

65-344

Frame

- Overall frame depth: 3-1/4" on all frame types.
- Frame members are mitered and heat fused to provide a fully welded corner assembly. Sill is fitted with weeps.
- Frame: [1-1/8" setback nail fin for 2-1/8" wall depth]] [nail fin with flat casing for 2-1/8" wall depth₁] [Block frame for 3-1/4" wall depth] [Integral 5/8" flange for 3" wall depth].
- Interior and exterior frame surfaces are extruded rigid uPVC.

Sash

- Sash members are extruded, rigid uPVC [with optional foam insulation].
- Sash members are mitered and heat-fused to provide a fully welded corner assembly.
- Includes an integral extruded sash lift as standard.
- Contains sealed insulating glass.

Weatherstripping

- Sash is weatherstripped around the sash perimeter with a fin-type, pile weatherstripping and vinyl wrapped foam weatherstrip.

Glazing System

- Quality float glass complying with ASTM C 1036.
- Exterior face-glazed sealed insulating glass.
- Dual-Pane insulating glass [[annealed] [tempered]] [[Advanced] [NaturalSun] [SunDefense™] Low-E coated [with Argon]] [[NaturalSun+] [SunDefense+] Low-E with argon]] [Bronze, Advanced Low-E coated [with Argon]] [Obscure₃] [High Altitude₂].
-or-
- 1" Triple-Pane [[annealed] [tempered]] [[Advanced] [NaturalSun] Low-E coated [, with Argon]] [Obscure₃] [High Altitude₂].

Interior / Exterior

- Window frame and sash members are [[White] [Almond] [Fossil] with integral color extruded throughout the profiles] [[Brown] [Black] laminate exterior, consisting of a solar reflective coating exceeding AAMA 307 test requirements, with White integral color extruded throughout the profiles on the interior].
- All exposed PVC surfaces are smooth, glossy and uniform in appearance.

Hardware

- Constant force balances connected to sash with stainless steel spring and concealed within the frame.
- All fasteners are corrosion-resistant material compatible with PVC.
- Locks are factory-installed, zinc die cast, self-aligning, [cam action locks] [AutoLocks] located on the check rail. Two sash locks are installed on units with 29-1/2" or greater frame width.
- Tilt latches are factory installed, [zinc die cast (advanced performance)] [nylon 6 (standard)] and are located on the check rail of the lower sash.
- Hardware finish is [White] [Almond] [Fossil].

Screens

- Set in aluminum frame and fitted to exterior of window.
- Screen frame finish is baked enamel, color to match exterior
- Screens for window with frame height ≤ 51-1/2" have one plunger per side, screens for windows with frame height > 51-1/2" have two plungers per side. Supplied complete with all necessary hardware.
- InView™ Flat Screen
 - Black vinyl coated 18/18 mesh fiberglass screen cloth complying with ASTM D 3656 and SMA 1201.
- or-
- Hidden screen (Available only to select markets/sales channels, contact your local sales representative for details).

Optional Products

Grilles

- Grilles-Between-the-Glass
 - [Dual-Pane Insulating glass contains [[3/4"] [1"] contoured] [5/8" flat] aluminum grilles permanently installed between two panes of glass] [Triple-Pane Insulating glass contains 3/4" contoured aluminum grilles permanently installed between three panes of glass].
 - Patterns are [Traditional] [9-Lite Prairie] [6-Lite Prairie] [Top Row].
 - Interior grille color matches interior frame.
 - Exterior grille color [3/4" Grille is [White] [Almond₄] [Fossil₄] [Brown] [Black]] [1" Flat Grille is [White] [Almond₄] [Fossil₄]] [5/8" Flat Grille is [White] [Almond₄] [Fossil₄]].
- Simulated-Divided-Light grilles without spacer
 - 7/8" Grilles permanently bonded to the interior and exterior of glass.
 - Patterns are [Traditional] [9-Lite Prairie] [6-Lite Prairie] [Top Row].
 - Grilles match color of interior and exterior frame.
 - Available only on units glazed with dual-pane insulated glass.

Hardware

- Optional limited opening hardware available for vent units in [White] [Almond] [Fossil] extruded vinyl to match the unit; nominal 3-3/4" opening.
- Optional window opening control device available for field installation. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

- (1) Flat casing available only to Northeast region, not all color options available at launch. Contact your local sales representative for current offering.
- (2) Dual-Pane IG High Altitude glazings are available with or without Argon. Triple-Pane IG High Altitude glazings are only available without Argon.
- (3) Obscure glass not available with Bronze Advanced, SunDefense+ or NaturalSun+ Low-E IG.
- (4) Almond grilles only available on Almond units. Almond units with grilles will have an Almond grille color, Fossil extruded color units with grilles have a Fossil grille color.



shingles

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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

GAF
1 Campus Drive
Parsippany, NJ 07054

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 of the Florida Building Code.

DESCRIPTION: GAF Timberline HD[®], Timberline[®] Natural Shadow[®], Timberline[®] American Harvest[®], and Fortitude[™] Shingles

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and 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 renews and revises NOA # 14-1022.20 and consists of pages 1 through 6.
The submitted documentation was reviewed by Alex Tigera.

Alex Tigera
2/17/17



NOA No.: 16-0811.11
Expiration Date: 02/21/22
Approval Date: 02/09/17
Page 1 of 6

Additional info needed to complete Bill Kimble - 319 SW Chippewa Gln

From: LaNiika Stewart (marrs@jobnimbusmail.com)

To: aceheatandair@yahoo.com

Date: Wednesday, April 3, 2024 at 11:51 AM EDT



ACE Heat and Air,

We have reviewed the Bill Kimble - 319 SW Chippewa Gln project and have a few questions to complete the calculations:

- 1.) What type of duct work would you like to use? (Flex with DB Junc Box, Flex with wyes, Duct Board w/ Flex Branches, Metal Rd with Metal Rd Branches, Metal Rect w/ Rd Branches)
- 2.) What brand, type, and SEER of equipment would you like to use? (Include Prefix- 1st 3 digits in model #) (If you need the heat load to select equipment model numbers, please let us know and we will provide that to you when the load is complete)
- 3.) What type of windows? (Double pane / Single Pane) (Low E)
- 4.) What type of window frame? (Vinyl / Wood / Metal)
- 5.) What is the SHGC and Uvalue of the windows?
- 6.) What is the size and type of water heater?

If you have any questions feel free contact us at your earliest convenience.

Warm Regards,

Marrs HVACR Design Team

Marrs HVACR Design, LLC

833-626-8253

Design@manualJ.biz

www.ManualJ.Blz

