

Jeffrey A. Nowell

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Curriculum Vitae

About Jeff Nowell, President

With more than 35 years of fenestration experience, President Jeff Nowell's background extends to all areas of the window and sunroom industry, including aluminum, vinyl, pultruded fiberglass, wood, aluminum clad, extruded brass, and steel window and door products.

A fenestration inventor and designer, he has worked with industry leaders like Owens Corning (Window Division), Patio Enclosures, Inc., and Simonton Windows, Inc. Based on this experience, he is intimately familiar with building codes all across the country. Additionally, he has witnessed and tested more than 100 window and door products.

Geographic diversity: Familiarization with East coast, West Coast, Mid-West, Gulf Coast window and door products

Material diversity: Familiarization with Aluminum, Vinyl, Pultruded Fiberglass, Wood, Aluminum Clad, Extruded Brass, and Steel Window and Door products

Manufacturing Process expertise: Developed and implemented manufacturing processes for small to large scale window and door companies. Responsible for four new factory start-ups and three manufacturing process reconfigurations. Toured European Window and Door factories and introduced European automated manufacturing concepts to U.S. manufacturers.

Deposition experience: Yes

Trial Experience: Yes

Product Designs:

Garden Window, Mirror Wardrobe Doors, Commercial Window Wall Systems, Sliding Windows, Residential Sliding Patio Door, Thermally Broken Aluminum Patio Door, Skylight, Sunroom, Multipoint Door Locking System, Dade County High Impact Casement Window, Screen Room Enclosure, incorporated European ideas into functional and aesthetic hardware designs for U.S. window and door products.

Product Design Comparative Analysis:

Conduct comparative analysis across competitive product lines of various manufacturers.

Inventor of Record on U.S. Patents:

| | |
|------------|--|
| #5,394,664 | Interlocking Skylight and Roof Panel System |
| #5,784,841 | Electrical Raceway Housed in a Structural Member |
| #7,222,467 | Screen with Integral Railing |
| #6,067,760 | Corner Bracket for Doors and Windows |
| #D411,018 | Frame and Corner Bracket |

Product Testing:

Design and built test chamber following ANSI Specifications for testing and certification of window and door products per AAMA voluntary standards. Witnessed and tested over 100 window and door products

Building Codes:

Code Committee Chairman to the National Sunroom Association; Developed and presented Sunroom code language adopted into the International Building Code, International Residential Code, and International Energy Code.

Jeffrey A. Nowell

Associations (past/present):

National Sunroom Association (NSA) (Founding Member), American Architectural Manufacturers Association (AAMA), National Fenestration Rating Council (NFRC), Glazing Industry Code Council (GICC), International Door Association (IDA)

Education

Kent State University, Ohio

Bachelor Business Administration – Finance

California State University at Long Beach

Mechanical Engineering/Industrial Management

Licenses

State of California – General Building – B Contractors License #940149

Associations

American Architectural Manufacturers Association (AAMA)

Field Experience:

- Field tested windows and doors for sound transmission (STC) ratings
- Field tested windows and doors for investigation of water intrusion issues
- Job Site visits to conduct analysis of construction practices as it relates to window and door installation
- General contracting experience in multiple trade disciplines.
- Conducted Job site training of installation procedures for windows and doors.

Client List:

- Ador/Hilite (Division of Rusco Industries), Fullerton, CA
- California Window Corporation, Walnut, CA
- Owens Corning (Window Division), Martinsville, VA
- Patio Enclosures, Inc., Macedonia, OH
- C-Thru Industries, Inc., Riverside, CA
- BM Building Systems, Inc., Ontario, CA
- Simonton Windows, Pennsboro, WV
- Vinyl Visions, Inc., Wilmington, OH
- American Exteriors, Inc., Littleton, CO
- Ponderosa Windows and Doors, Denver, CO
- Window Factory, San Diego, CA
- Monarch IG, Cambridge, OH
- Precision Door and Glass, Sugarcreek, OH
- Machine Techniques, Inc., Aurora, OH

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Employment History

President

Fenestration International Consulting, LLC

- Offering design and manufacturing consulting services.
- Offering Expert Witness services
- Managed project of a new start-up manufacturing facility in Denver, CO. Provided factory layout, equipment specification, vendor selection, and coordination of equipment installation.
- Provided analysis of existing manufacturing process consisting of a vinyl extrusion operation and in-line fabrication of parts. Provided "Value Stream" mapping of process, recommended process changes, and projected payback analysis for capital equipment.
- Designed and provided all fabrication drawings for an impact casement window compliant to Florida and Dade County Building Codes. Evaluated and tested 3 competitor product lines prior to design project.
- Designed screen room structure.
- Provided time studies, suggested revised process layout, and capital budget projections for a glass assembly process.
- Conducted R & D testing and evaluation of patio door product line.
- Authored industry related articles in window and door trade magazines.

Vice President – 10 years

Patio Enclosures, Inc., Macedonia, OH

- Inventor of Record on (5) U.S. patents of Fenestration related products and components
- Principal designer on window and door components for 3 product lines of sunrooms.
- Performed analysis on competitor product lines.
- Technical representative and spokesperson for the National Sunroom Association.
- Authored and presented code language adopted into the International Building Codes.
- Served on various committees and boards of the NSA, GICC, AAMA, and NFRC industry associations.

Plant Manager – 2 years

Owens Corning Fiberglas – Window Division , Martinsville, VA

- Responsible for start-up of new pultruded fiberglass replacement window factory.
- Team Leader of design and manufacturing process team.

Vice President – 10 years

California Window Corp., Walnut, CA

- Designed first window product in a start-up company. Proceeded to go on and design window and door products for the manufactured housing industry, residential construction, replacement market, and light commercial market.
- Ran competitive analysis on window and door products for target markets.
- Witnessed window and door testing per AAMA/NFRC specifications for air, water, structural, thermal, and sound transmission classes.
- Held California C17 Glazing Contractor's License

Engineering Department Manager – 9 years

Ador-Hillite (Division of Rusco Industries), Fullerton, CA

- Principal designer over 5 product lines
- Supervised all window and door testing for R&D and Certification with in-house test laboratory.
- Witnessed over 100 competitor and company products being tested.