

Iron Woods® Vanish™ Rain Screen and Soffit System... “Pushing the Envelope”©

The perfect complement to the natural beauty of our Iron Woods™ premium grade exterior building products and our existing line of siding profiles and standard rain screen offerings, the Vanish Rain Screen™ brings a newfound elegance to the art of both commercial and residential building envelope design and construction.

The impact of moisture condensation behind exterior wall cladding or siding on material performance and finishes is well understood and the importance of allowing siding and soffit systems to ventilate is not new. The benefits of Rain Screen verses traditional siding applications is also not new. Vanish Rain Screen is a Drained and Back-Ventilated rain screen system that can be applied horizontally, vertically or diagonally as cladding and or soffit for both interior and exterior applications. It is important to understand that drained and back-ventilated systems are designed to leak and no attempt is made to minimize the effect of wind by means of pressure equalization as with Pressure Equalized Rain Screen Systems. In drained and back ventilated systems the cavity behind the cladding is drained, and positive back-ventilation is used to promote the rapid evaporation of any rainwater deposited in the air cavity.

The ‘Vanish™ System’ ... The State Of The Art in Rain Screen and Soffit Design.

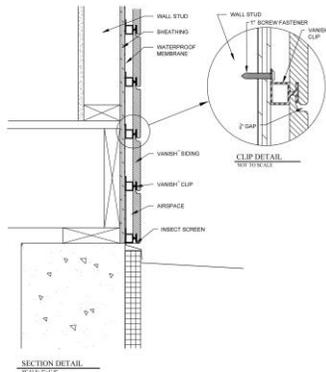
Architects and designers recognize that the Vanish™ Rain Screen cladding profile, material offerings and unique clip system represents a significant improvement in the technology for both residential and commercial rain screen and soffit applications.



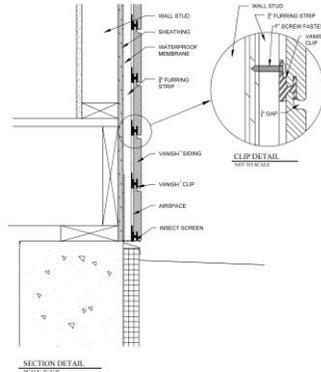
To Learn More about Vanish Rain Screen Soffit and Decking Systems Visit:

www.ironwoods.com

A More Comprehensive Brochure can be found in our PDF library.



High Profile



Low Profile



Features and Benefits

- Elimination of face fasteners, and other non-hidden clip designs = clean aesthetic appearance
- Elimination of face fasteners as points of water penetration = increased durability of wood fiber
- Elimination of face fasteners = allowance of seasonal expansion and contraction increases durability of wood fiber
- Elimination of predrilling = reduced installation costs
- Elimination of top grooves for clip attachment in cladding profile = elimination of damaging gutter effect.
- Optional use of battens = reduction in moisture holding points of contact with both envelope and cladding
- Optional use of battens = vertical and horizontal air flow improving moisture dissipation from the envelope.
- Optional use of Battens = reduction in installation costs
- Floating system design = cladding adjusts naturally to changes in environmental conditions eliminating stress at connection points
- Low Profile and High Profile clip options = new and retrofit design flexibility
- Use of specialized screws for clip to sheathing, wood or galvanized battens.
- Unique cladding profile = improved water shedding and decreased risk of cladding to clip separation
- Unique three hole clip design = clip to batten, stud or sheathing fastening options.
- Wide clip design = superior connections and smooth transitions at butt joints
- Use of 1" or 5/4" nominal siding thickness = Design Flexibility
- Direct sheathing attachment option = use of random length cladding and reduced cladding trim waste and lower material cost
- Direct sheeting attachment = horizontal, diagonal and vertical design and application options
- System design = incorporation of 4" and 6" nominal cladding profile widths and associated design flexibility
- Specialized screw thread design = superior clip to sheathing connection and performance
- Marine Grade Aluminum Clip and Stainless Steel Fasteners = low galvanic reaction and superior life cycle system performance.
- Wood Species Options = Aesthetic Flexibility
- USGBC/LEED/FSC Compliant Species Options = LEED Certification

Design Basics IBC Compliance

IBC Section 1406 Combustible Materials on the Exterior Side of Exterior Walls

Section 1406.2.1 Type I, II, III and IV Construction, exterior wall coverings shall be permitted to be constructed of combustible materials, complying with the following limitations:

1. Combustible exterior wall coverings shall not exceed 10 percent of the exterior wall surface are where the fire separation distance is 5 feet (1524mm) or less.
2. Combustible exterior wall coverings shall be limited to 40 feet (12192mm) in height above grade plane.

Section 1406.2.3 Fire blocking

Where the Combustible Exterior wall covering is furrowed out from the exterior wall and forms a solid surface the distance between the back of the exterior wall covering and the exterior wall shall not exceed 1-5/8" (41mm) The concealed space thereby created shall be fire blocked in accordance with Section 718

VANISH RAIN SCREEN AND SOFFIT SYSTEM EXTERIOR CLADDING SYSTEM

SECTION NOTES:

1. ALL INSTALLATION SHALL BE DONE IN CONFORMANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS AND THIS DOCUMENT.
2. DIAGONAL LAYOUT IS PERMITTED AND LIMITED BY ATTACHMENT SCHEDULE.
3. PLAN CERTIFIES STRUCTURAL ADEQUACY OF SYSTEM ONLY. ALL WATERPROOFING CONSIDERATIONS AND METHODS NOT LISTED ARE PER MANUFACTURER SPECIFICATIONS.

SCOPE OF WORK:
PROVIDE STRUCTURAL DETAILS FOR THE CONNECTION OF THE RAIN SCREEN SYSTEM TO STRUCTURAL SHEATHING, AND WOOD OR METAL FURRING.

GENERAL NOTES:

1. ALL WORK SPECIFIED HEREIN HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE PER EDITION (2014).
2. THE HOST STRUCTURE IS ASSUMED TO BE ADEQUATE TO WITHSTAND THE LOADS IMPOSED BY THIS DESIGN. THE CONTRACTOR/BUILDING OFFICIAL SHALL VERIFY THAT THE SUBSTRATE IS SOUND FOR INSTALLATION OF THIS SYSTEM.
3. ALL MATERIALS USED & FABRICATION METHODS SHALL CONFORM TO THE MANUFACTURERS PUBLISHED AND APPROVED REQUIREMENTS.
4. ALL FASTENERS TO BE ASTM A593 COLD WORKED 316 STAINLESS STEEL (F_y=100KSI) OR BETTER, SAE GRADE 5, OR CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL UNLESS NOTED OTHERWISE AND SHALL COMPLY WITH S.I.I.C. SPECIFICATIONS FOR ALUM. STRUCTURES - SECTION 11; THE ALUMINUM ASSOCIATION, INC. & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
5. STRUCTURAL SHEATHING SHALL BE APA RATED PLYWOOD, 1/2" OR BETTER THICKNESS (PLAYWOOD PER F.A.C. 2308.3.3(C)) & CONTIGUOUS OVER TWO OR MORE SPANS; WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTS. OTHER STRUCTURAL SHEATHING MATERIALS PERMITTED AS LOCAL CODE REGULATIONS ALLOW, WITH DENSITY 0.45 MINIMUM & 1/2" THICKNESS MINIMUM.
6. WOOD FURRING SHALL HAVE A MINIMUM SPECIFIC GRAVITY OF 0.5 AND MIN THICKNESS OF 1/2" (12.0MM). STEEL FURRING SHALL BE A MINIMUM OF 200G THICKNESS, STRENGTH OF 45 KSI ULTIMATE & 33 KSI YIELDING.
7. ALL OUTLETD MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6063-T6 U.N.O; ALL NYLON SHALL BE 30% GLASS REINFORCED WITH A LONG TERM SERVICE TEMPERATURE IN AIR OF 248 °F MIN. & TENSILE STRENGTH 19 KSI MIN IN A 50% RELATIVE HUMIDITY ENVIRONMENT.
8. THE CONTRACTOR IS RESPONSIBLE TO INSULATE DENSIMLAR MEDIA TO PREVENT ELECTROLYSIS ENGINEER SEAL APPLIED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY THE PERMIT HOLDER/CONTRACTOR, IF AN INDONESIAN, DEFENDS & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL, FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
9. THIS DOCUMENT IS GENERIC & DOES NOT PERTAIN TO ANY SPECIFIC PROJECT SITE. INFORMATION CONTAINED HEREIN IS BASED ON CONTRACTOR-SUPPLIED DATA AND MEASUREMENTS. ENGINEERING EXPRESS SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR REQUIREMENTS, CONDITIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT MUST REMAIN WITHIN THE LIMITATIONS SPECIFIED HEREIN. WORK SHALL BE FIELD VERIFIED BY OTHERS PRIOR TO CONSTRUCTION. ENGINEERING EXPRESS SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO REEVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.
10. EXCEPT AS EXPRESSLY PROVIDED IN HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

1 RAIN SCREEN ATTACHED TO SHEATHING
N.T.S. SECTION VIEW

2 HORIZONTAL RAIN SCREEN ATTACHED TO SHEATHING
ELEVATION VIEW

3 VANISH CLIPS
N.T.S. VIEW

DATE: 02/09/2017

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

SCALE: N.T.S. UNLESS NOTED

1