

NOVA EXOCLAD QUICKCLIP RAINSCREEN SIDING SYSTEM INSTALLATION:

Nova's ExoClad QuickClip Rainscreen Siding System is engineered by nature to withstand the test of time. Professional builders and do-it-yourselfers alike choose our products for their high quality, high performance and consistency. Rainscreen applications are a beautiful way to clad an exterior wall, making it less likely to suffer moisture problems that lead to rot and warping.

First, the weather resistive barrier (WRB) consisting of House Wrap (Tyvek Equivalent) combined with window and door flashings is installed. Next, any door and window trim material should be installed. Furring strips are **not** required over the WRB; the siding clips are screwed directly into studs, through the house wrap and sheathing. The air gap created by the ExoClad QuickClip Rainscreen Clips allows the back of the siding to ventilate and breathe, whether the source of moisture is wind-driven rain, humidity, capillary action, or interior moisture that escapes through the House Wrap. Cor-A-Vent screening at the perimeter openings will prevent insects and other critters from making their homes beneath your siding.

MATERIALS NEEDED:

- Nova Rainscreen Siding with optional trim material
- Nova ExoClad QuickClip Rainscreen Siding Clips
- Cor-A-Vent SV5 (3/4" thick and 3" wide)
- GRK R4 Screw #9x2" (or appropriate screw for your substrate)
- Cordless Drill
- End Seal
- Weather Resistive Barrier - House Wrap - Tyvek Equivalent
- Level
- Angle Grinder
- Rubber mallet
- Chalk line
- Stainless steel screws or plug system for top row only (we recommend the Starborn ProPlug)
- ExoShield Hardwood Finish

PRIOR TO INSTALLATION:

- Calculate how much siding you will need based on the "Net Finished Dimensions" only.
- Plan your lengths carefully based on the tally of the material you received and the job requirements.
- Nova Rainscreen Siding must acclimate to your local climate for 2-3 weeks prior to beginning installation.
- Use End Seal to seal the ends of the boards of any freshly cut siding boards.
- Pre-finish your boards with ExoShield on 4 sides to protect your wood.

- Do you need a permit? Permission from your Homeowner's Association? Before starting any project, you must always check local building codes.

STEP-BY-STEP INSTALLATION GUIDE:

- Install a weather resistive barrier or house wrap over Plywood or OSB sheathing to prevent moisture intrusion. (Always follow the WRB's manufacturer's instructions.) Make sure that all windows and doors are installed and flashed according to the door or window manufacturer's specifications and installation guidelines.
- All windows and doors must be trimmed prior to installation of rainscreen siding.
- The ExoClad QuickClip Rainscreen Siding system creates a 3/4" gap between the exterior sheathing and the back of the siding board. When using 3/4" siding material, the overall projection from the building to the front face of your siding will be 1-1/2" total. If your window or door trim projects more than 1-1/2", it is appropriate to allow the wood siding to run up to the window or door opening without requiring additional trim.
- If the trim on the window or door trim does not project to at least 1-1/2" from the exterior sheathing, then you will leave an unprotected and exposed end of the rainscreen cladding where it meets the door or window. This must be handled by either adding larger trim to the door or window, according to the window or door manufacturer's options, or build a picture frame trim around your doors or windows. Trim pieces around doors and windows can be fabricated using additional rainscreen material as both the trim and 3/4" blocking material to attach as a flange. Always use Cor-A-Vent around the perimeter to protect against insect intrusion and to wick moisture away.
- Using a chalk line, mark a level horizontal line at the point where the base of the Rainscreen siding will align. This is your baseline.
- Using a chalk line, mark where your studs are located for ease of installation.
- Install your first series of ExoClad QuickClips on your baseline, screwing through the weather resistive barrier to the stud. You may wish to cut the clip (an angle grinder will work) to eliminate the bottom part which will not be supporting anything). Align each starter clip with the studs you marked. Make sure that the tops of the ExoClad QuickClips are level and evenly spaced on the studs. You may need 2 screws per clip for the first and second course of rainscreen siding.
- Cut strips of Cor-A-Vent and screw into the WRB and sheathing so that it fills the space behind the clips. The Cor-A-Vent should run just above the baseline behind your siding to permit airflow and to eliminate pests.
- Install the first Nova Rainscreen Siding board on top of the starter clips. (TIP: Use a level to ensure this first board is aligned properly). Cut ends of boards should fit tightly against each other. Be sure your end cuts are perfectly square. Use a good quality miter saw and be sure it is aligned correctly.
- Fit the next course of ExoClad QuickClips over the first row of Rainscreen siding boards. Ensure that the edges are engaged – use a rubber mallet CAREFULLY to align boards properly.
- Once the clips are engaged, connect the second set of clips, driving one or two screws through the siding fastener into the stud. Ensure that the clips are level, and continue to check level throughout the installation.

- Set the proceeding Rainscreen siding boards on top of the installed siding fasteners. Continue to install ExoClad QuickClips and Rainscreen boards until you have reached the top of your installation area. Clips will usually require only one screw once you are past the first few rows.
- When you are ready to install the last row of Rainscreen boards, screw another course of Cor-A-Vent behind where the final row of boards will align so that the top **and** bottom boards have Cor-A-Vent screwed into the House Wrap behind the Rainscreen boards.
- Leave at least 1/8" gap between the top of the board and the ceiling soffit to allow for air circulation.
- The final row may need to be ripped down in order to fit the vertical space. To affix these pieces, you will need to provide some 3/4" blocking made from hardwood material behind where the top clip should be- the clip will not work because you will have taken off the patterned part of the board. You can now face screw through the rainscreen board and your blocking into the stud behind using a stainless steel screw through a pre-drilled hole. To hide the screw, you may wish to use a screw and plug system for this top row installation only.
- **TIP:** Where two pieces of siding abut against each other, ensure that they fit together tightly. Wood does not measurably shrink or expand in length so ends can be pushed as tightly together as possible.
- Outside corners may be trimmed by using 1x4 or 1x6 boards that have been ripped to the desired width. Overlap edges on outside corners. A 3/4" rabbet may be cut lengthwise with a dado blade or a router on one of the two corner boards.

Allowable Movement:

When installing Rainscreen Siding, install each board as tightly as possible to leave the smallest gaps between them in case shrinkage occurs. Do not attempt to bend the ExoClad QuickClips – they will move on their own to accommodate the movement of the wood. The clip accommodates up to 1/8" of expansion or swelling. Shrinkage and swelling vary depending on climate and exposure to moisture. The Nova ExoClad QuickClip Rainscreen Siding System is the only resilient clip on the market and will allow for the natural movement of the wood.

Cutting Hardwoods:

Premium quality, carbide tipped saw blades are recommended for cutting all hardwood siding products.

End Sealing:

Our Rainscreen Siding is shipped with the end grain sealed with a clear wax to prevent any end checking and adverse movement. Fresh cuts should be sealed within 24 hours with end grain sealant. . End grain sealant is available by the quart, which is typically enough for 500 sq.ft. of siding. The end grain sealant is simply applied with a paintbrush and dries clear. DO NOT apply end seal to the surface of the siding. Any sealant that gets on the surface should be wiped off immediately.

Finishing:

Because of Exotic Hardwood's natural density and chemical characteristics, many oil and water based finishes will not dry properly when applied. We recommend that you test any product on several sample boards to determine compatibility. The finish we sell and recommend is ExoShield. We do not recommend the use of other finishes. Applying a finish approximately every three to four years (depending upon your local climate) should help keep the color stable. If you decide to let your siding weather, it will turn a silvery gray similar to teak. We recommend that you apply a coat of finish prior to installation, regardless of the final color desired. The initial coat of oil will help prevent moisture penetration and keep the wood more stable which helps to prevent checking, cracking and splitting.

*****IMPORTANT *****

You must contact your local building department before you begin designing your project. Your local building department (and/or Homeowner Association) will inform you of any zoning ordinances and buildings codes that specify where and how you can build. You are responsible for applying for and obtaining any and all required permits for your project.

Disclaimer:

Nova USA Wood Products provides this information as possible suggestions only and will not be held liable for your project's suitability or should you choose not to obtain the required permits, or if you fail to comply with all zoning ordinances and building codes.

By purchasing material from Nova USA Wood Products, you agree to comply with our Terms & Conditions. Our siding products are carefully manufactured and inspected to ensure quality. However, these are natural wood products and are subject to variations in weight, density, color, grain and performance. Wood siding is naturally subject to dimensional changes as the moisture content in the wood fluctuates with humidity in the air. Swelling, shrinkage, checking and other movement of individual pieces are normal occurrences in wood siding.

If you have any questions, contact us for written clarification prior to starting your project.