

Introducing Climate-Shield™ Rain Screen Wood Siding System

What is rain screen siding technology?

The rain screen siding principle is straightforward: first build an outside wall and weatherproof it, secondly, build an outer layer of siding to keep the weather (rain, snow and sun) away from the inner wall. The air space in between these two layers (wall cavity) allows moisture to escape and also creates a passive insulation layer.

Rain screen siding technology has been commonly used in Canada and Europe for years as a sustainable design system to create a better building envelope. American architects, designers and builders are using this green building technology and embracing its numerous benefits.



This stave church in Urnes, Norway is estimated to have been built in the late 12th century using wood and other materials from a church that was built even earlier. This is the oldest known wood structure still in existence to have used the “rain screen” principle in its construction.



Over 800 years later you can use the Climate-Shield rain screen wood siding system in your residential or commercial project designs. The rain screen system is so versatile you can install siding horizontally, vertically or at any angle that is appropriate for your project design.

What is the Climate-Shield™ Rain Screen Wood Siding System?



The patent pending **Climate-Shield™ Rain Screen Clip** is the heart of the Climate-Shield Rain Screen Wood Siding System. The rain screen clip's remarkable design makes it superior to any other options in the marketplace.

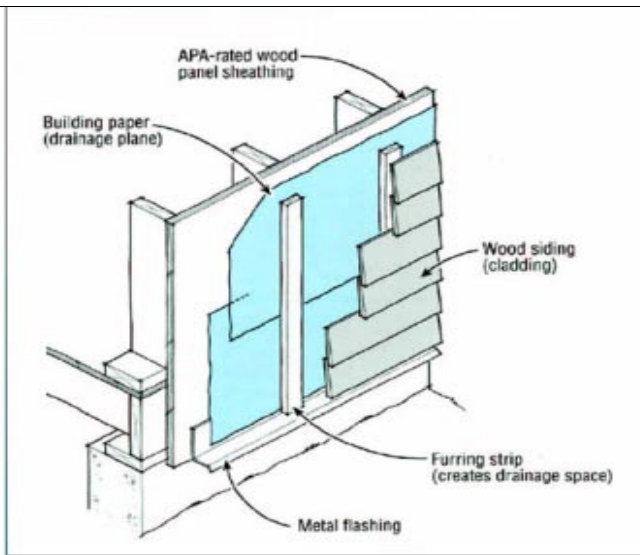
- ✓ Smooth design minimizes perforations in house wrap fabric (and cuts and nicks when handling and installing)
- ✓ Precision machining of the rain screen clip guarantees consistent spacing of the siding off the sidewall
- ✓ Heavy duty marine grade aluminum alloy ensures long lasting durability
- ✓ Compatibility of the rain screen clip and the stainless steel screws eliminates any galvanic reaction of the rain screen clip system
- ✓ Rugged clip design provides a secure base for siding attachment
- ✓ Two screws per clip provides a stable attachment and virtually doubles the Design Pressure rating of the system

Introducing the Climate-Shield™ Rain Screen Wood Siding System

The Climate-Shield™ rain screen wood siding clip system is the ultimate rain screen wood siding clip and fastening system available. The Climate-Shield™ Rain Screen Wood Siding System combines tried and true methods with modern technology to create the most energy efficient and weather effective wood siding system that is eco-friendly, beautiful, effective and enduring.

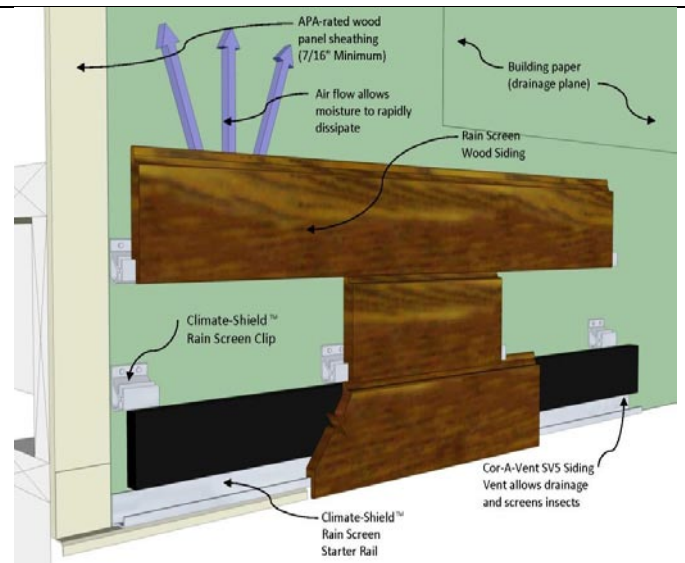


Typical Rain Screen System (with furring strips)



- ✓ The inner wall is weatherproofed to keep the weather from entering into the interior of the structure
- ✓ The outer siding keeps the weather away from the structure
- ✓ The open space between the layers of the rain screen system allows trapped moisture to escape (minimizing mold) and also creates an energy-efficient air space that acts as an insulator. This layer helps buffer the transmission of both cold and heat.
- ✗ *The major disadvantage of this system type is that it requires the use of furring strips: adds material costs*
- ✗ *Adds construction time and labor costs*
- ✗ *Provides inconsistent spacing between the siding and the sheathing*
- ✗ *Furring strips have a tendency to rot and decay and are susceptible to insect damage.*
- ✗ *Wet furring strips are an excellent food source for mould and mildew*
- ✗ *Some clips are susceptible to a galvanic reaction and promote corrosion*

Climate-Shield™ Rain Screen Wood Siding System



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- ✓ **Climate-Shield rain screen clips eliminate the need for furring strips! Save material costs**
- ✓ **Save construction time and labor costs**
- ✓ **Rain screen clip provides consistent spacing between siding and sheathing**
- ✓ **No furring strips eliminates a food source for mould, mildew, decay and rot**
- ✓ **Clips allow free movement of air to accelerate moisture dissipation time**
- ✓ **Clips have no galvanic reaction to the screws (eliminates electrolytic corrosion)**

Climate-Shield™ Rain Screen Wood Siding System Mataverde® Sustainable Hardwood Siding Options

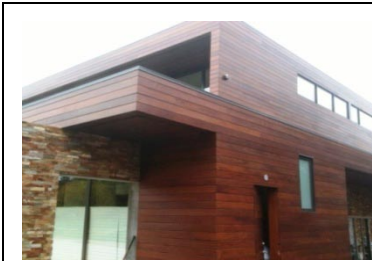
The Climate-Shield Rain Screen System can be installed horizontally, vertically and diagonally without creating complicated matrixes of furring strips.



The Climate-Shield™ Rain Screen Wood Siding System allows the design team to install the wood siding in the typical horizontal fashion, and now you are free to design on the vertical or diagonal and still have all the efficiencies of a rain screen system. Climate-Shield Rain Screen wood siding species and profiles are readily available for your projects. If your project calls for special sizing, profiles or species, additional custom wood siding profiles can be developed for you and your specific project needs. Please feel free to contact us at any time.



Mataverde® Hardwood Cladding Options



Mataverde® Machiche FSC Certified Hardwood Siding

The Climate-Shield Rain Screen System works extraordinarily well with a wide variety of appropriately specified hard wood siding species. We have experienced exceptionally remarkable results with [hardwood cladding species](#) such as Ipe, Garapa, Santa Maria, FSC Certified Machiche hardwood siding and more.



Mataverde® Premium Ipe Hardwood Siding



Mataverde® Premium Garapa Hardwood Siding



Mataverde® Santa Maria FSC Certified Hardwood Siding can be stained a wide variety of colors



Mataverde® Premium Cumaru Hardwood Siding

For your convenience, [a full suite of CAD architectural details and construction specifications](#) are available to simplify your design and specification process and save you valuable time.

