

Patent Pending. Generated April 2025



Thermal Studs

DRAINSTRIP™

**PASSIVE VENTILATION AND RAINSCREEN
CONSTRUCTION MANUAL**

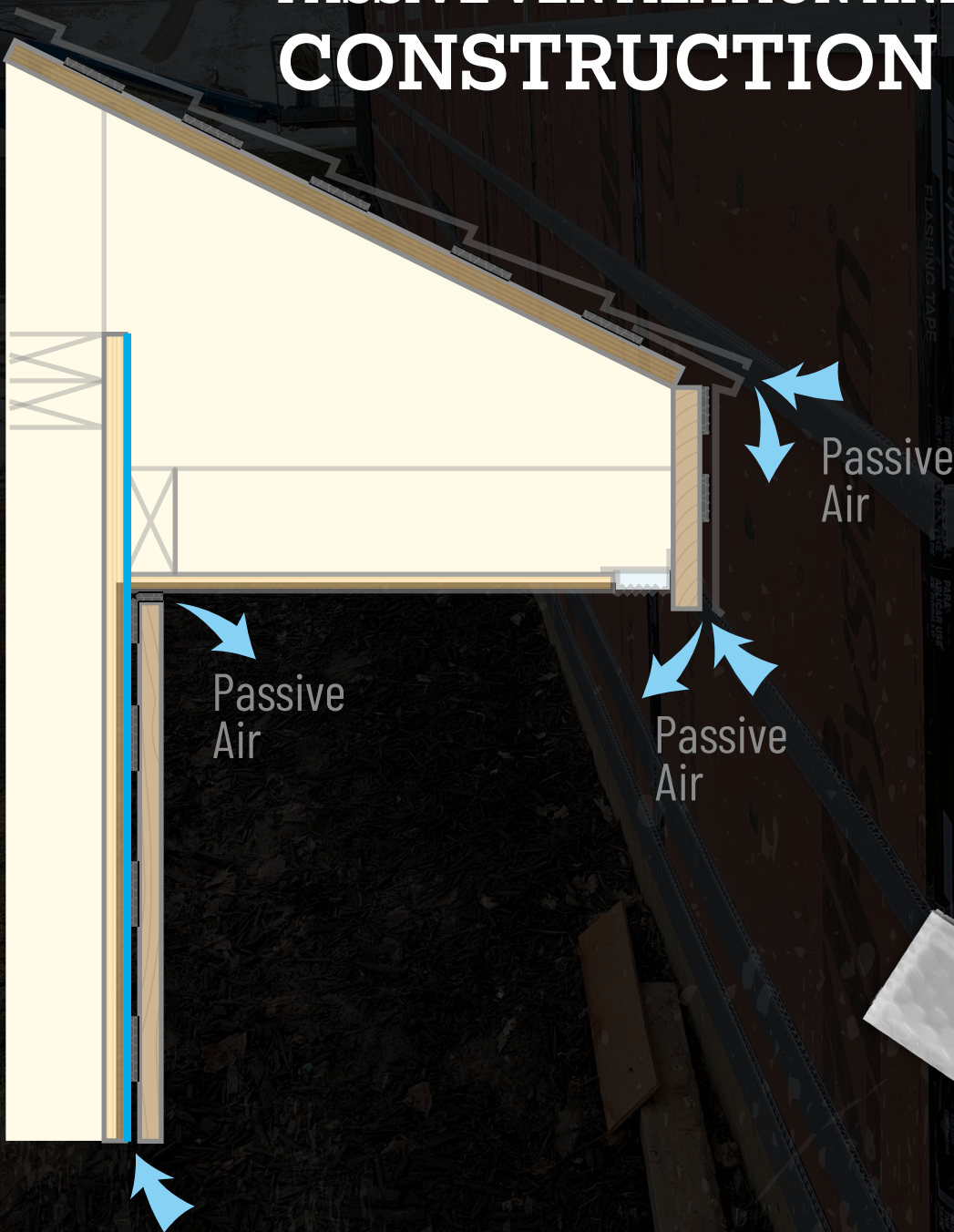


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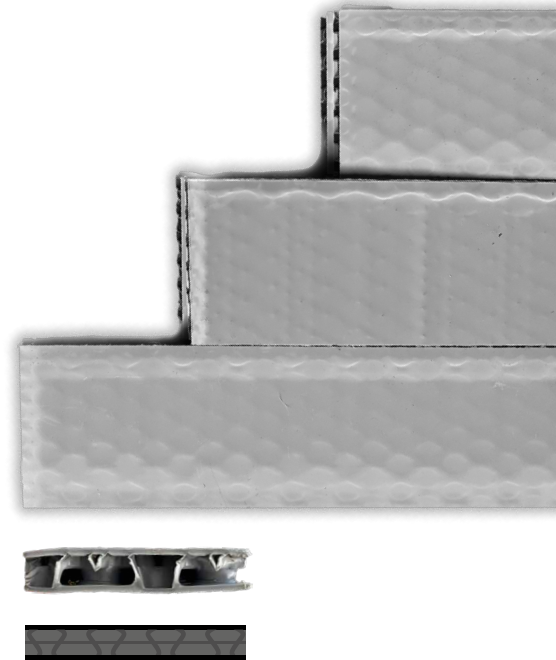
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PRODUCT DESCRIPTION

DrainStrip by Thermal Studs is a simple yet innovative solution designed to provide effective drainage and moisture control in framed wall assemblies. Installed at the bottom of exterior walls, the DrainStrip creates a consistent drainage path that directs water safely out and away from the structure—helping prevent rot, mold, and other moisture-related issues.

Made from durable, long-lasting material, the DrainStrip integrates seamlessly with Thermal Studs and standard framing methods. It's easy to install and a smart addition to high-performance building envelopes that prioritize durability and long-term energy efficiency.

Whether you're building high-performance homes or simply want smarter water management in your walls, DrainStrip adds protection where it matters most—at the base.



PERFORMANCE CHARACTERISTICS

- + **Promotes Drainage:** Directs water out of wall assemblies to prevent moisture buildup.
- + **Moisture Protection:** Reduces risk of mold, rot, and structural damage.
- + **Durable Material:** Weather-resistant and long-lasting—won't rot, rust, or degrade.
- + **Easy Installation:** Installs quickly with standard tools.
- + **Seamless Integration:** Designed to work with any wall assembly.

SIZE:

Individual Piece Size

1.5", 2" or 3" wide

48", 84" or 96" long

Custom sizes available.

	Length	Width	Pieces/Pallet	Total LF/Pallet	Weight/Package
DrainStrip™	4' or 8'	1.5"	76	4864	57
DrainStrip™ w/ Butyl	4' or 8'	1.5"	68	4352	68
DrainStrip™ Roof	4' or 8'	3"	38	2432	57

With or without NFP 285



Thermal Studs

FASTENERS

1.1 Recommended Fastener Type

Use TetraGrip™ Studless Siding Fasteners or an equivalent product. These feature a barbed helix design that secures to OSB or plywood sheathing without penetrating wall studs, preserving the integrity of the cavity and reducing condensation risk.

Note: Alternative fasteners must match the withdrawal strength and performance of TetraGrip™.

1.2 Fastener Materials

Use corrosion-resistant fasteners rated for exterior/moisture-prone environments:

- + Stainless steel
- + Hot-dip galvanized

1.3 Fastener Length

Minimum Penetration:

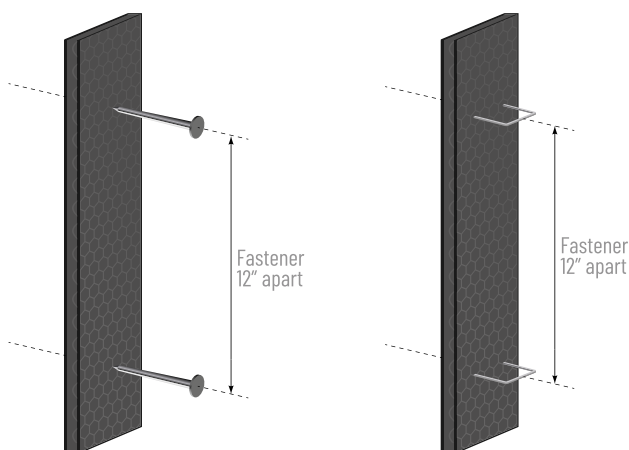
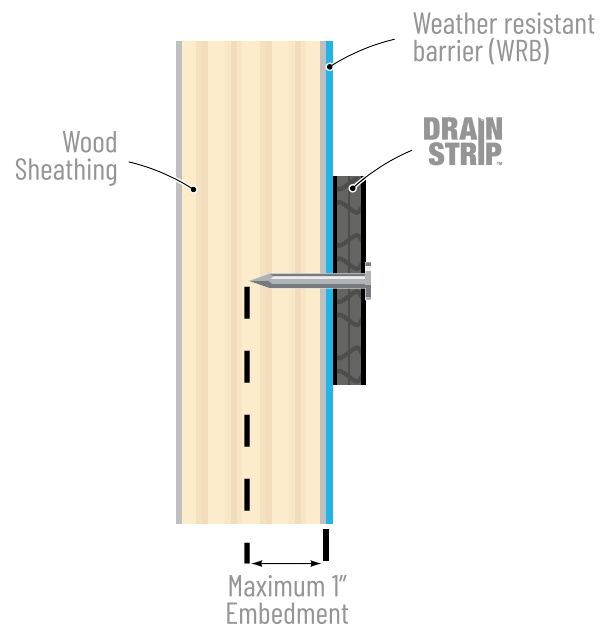
- + ½" into sheathing (as per TetraGrip™ or equivalent specs)
- + 1.5" when attaching into purlins (roof or wall)

For thicker assemblies: Ensure at least 1" penetration into structural framing or sheathing

Always follow cladding manufacturer's fastener requirements for rainscreens

1.4 Fastener Spacing

- + Standard: 12" on center (OC)
- + High-Wind Zones: 8" OC for extra reinforcement



CUTTING & CORNER DETAILS

2.1 Approved Cutting Tools

- + Fine-tooth saw
- + Tin snips
- + Sharp utility knife

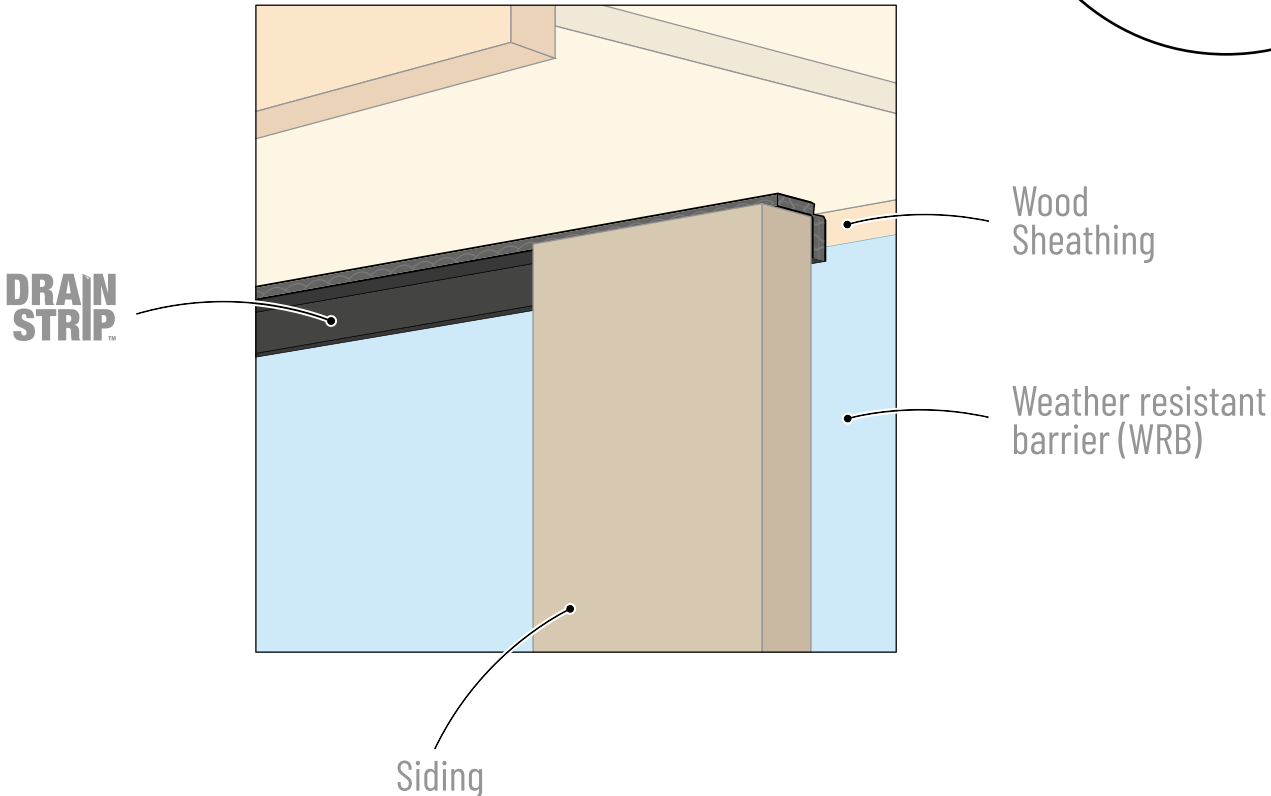
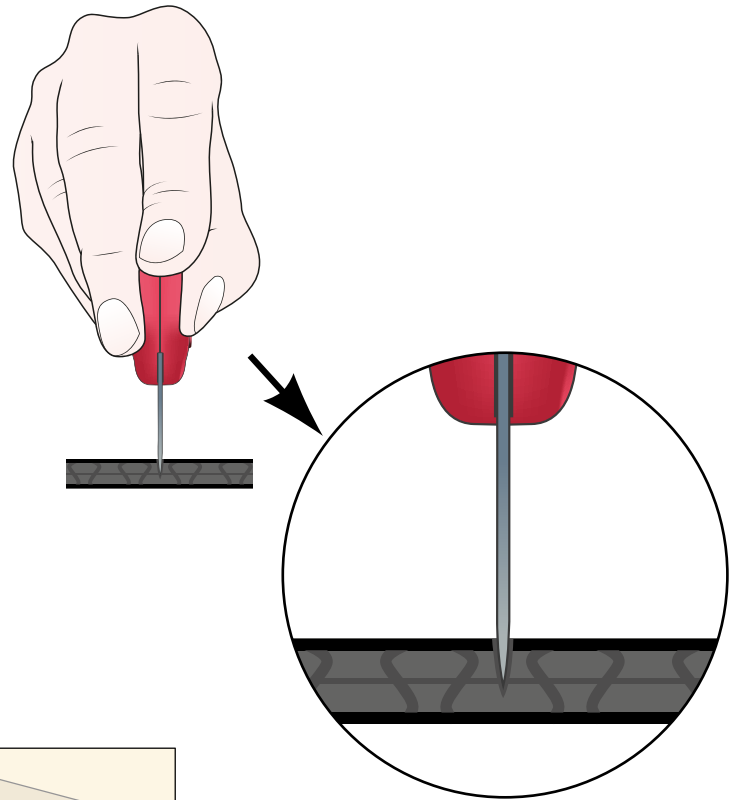
2.2 Corners & Finishing

Miter cut at 45° for inside and outside corners

Deburr all cut edges to protect WRB and promote a clean finish

SAFETY DISCLAIMER:

Always use caution when cutting DrainStrip™ with sharp tools such as utility knives, tin snips, or saws. Wear protective gloves and ensure your hand placement is away from the cutting path to prevent accidental injury. Follow all applicable jobsite safety protocols and tool manufacturer guidelines.



APPLICATION METHODS

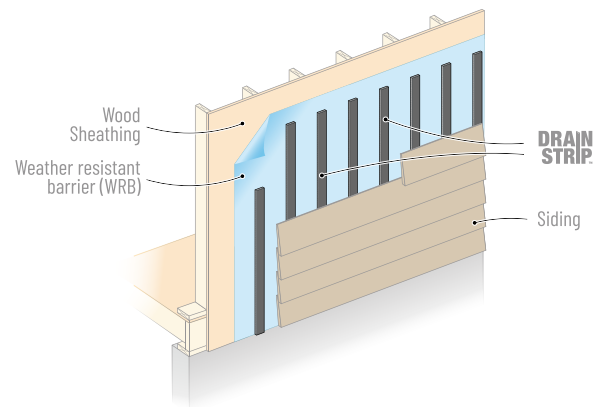
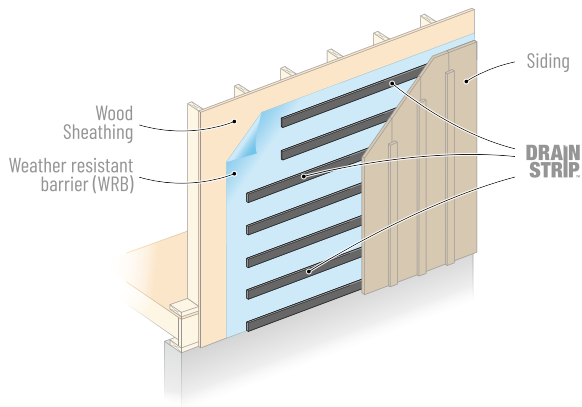
3.1 Roof Applications

Install DrainStrip™ at eaves, ridges, and valleys for drainage and airflow

Overlap by at least 1"

In walkable zones, use 2" or 3" wide strips

Follow fastener spacing from Section 1.4

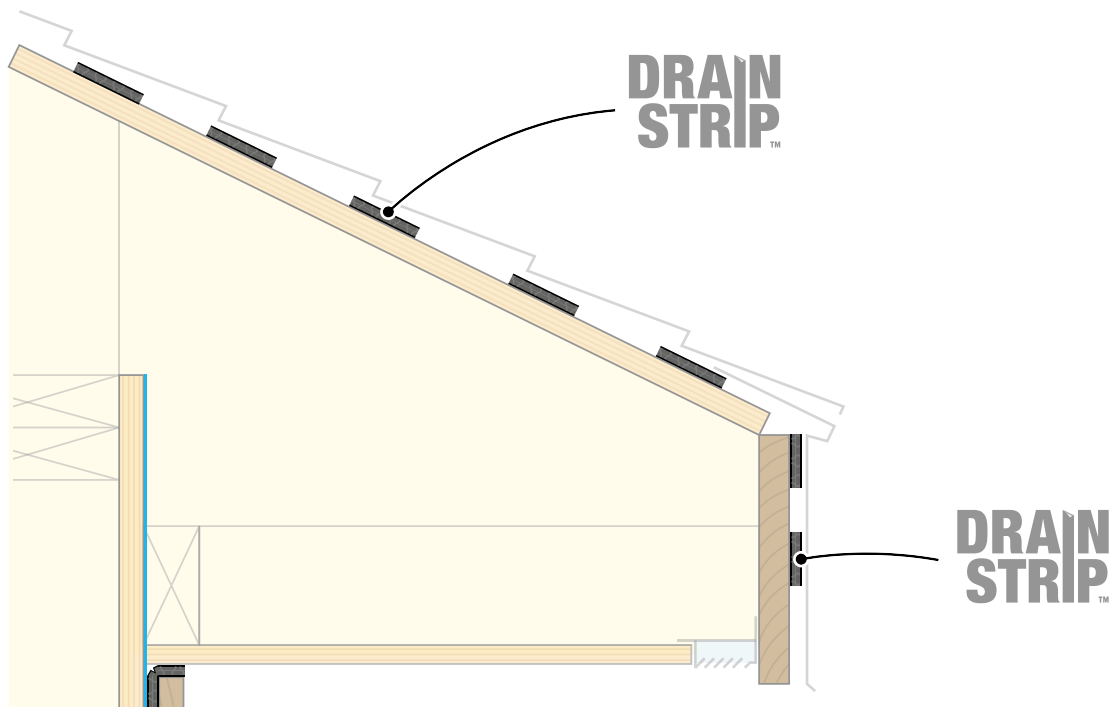


3.2 Wall Applications

Vertical Installation: Every 16"-24" vertically, or per cladding manufacturer guidance

Horizontal Installation: 16" OC

Ensure strips are level and fastened to structural members



STRIP SPACING & ALIGNMENT

Allow up to ¼" expansion gap between adjacent units
Maintain continuous alignment for unbroken drainage paths

VENTILATION INTEGRATION

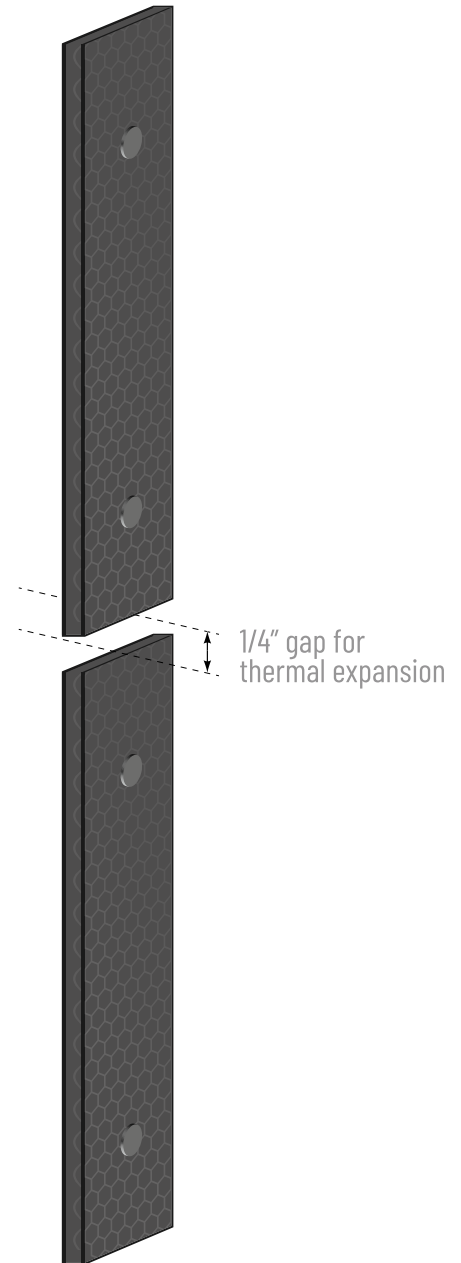
Maintain unobstructed airflow around and between DrainStrip™ units
Integrate with soffit vents, ridge vents, or other compatible ventilation systems

MAINTENANCE & INSPECTION

Inspect annually for:

- + Debris buildup
- + Blocked ventilation paths
- + Loose or missing fasteners

Clean and secure as needed to maintain performance.



INSTALLATION TIPS

Avoid over-tightening fasteners to ensure water drainage

Leave ⅛"-¼" expansion gap at lengthwise joints

In freeze-thaw climates, consider additional waterproofing at overlaps

LIMITATIONS OF USE & DISCLAIMER

DrainStrip™ is a non-structural product. Install per local building codes and manufacturer instructions.

The manufacturer is not responsible for:

- + Improper installation
- + Unauthorized assemblies or climate zones
- + Ignoring fastener or spacing guidelines
- + Damage from lack of maintenance, movement, or exposure

DrainStrip™ is not a structural member. Consult a licensed architect, engineer, or building official for final design approval.



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FOR TECHNICAL SUPPORT:
Please visit www.thermalstuds.com/drainstrip



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