

GRIDIRON ULTRA RZ BUTYL

Product Information

Gridiron Ultra RZ is a high performance self-adhered roofing membrane designed for protection against snow load, ice dams, and wind-driven rain on steep-slope roofing assemblies of 2:12 or greater. Gridiron Ultra RZ is made with our Redzone high temp self-adhered butyl membrane, engineered to withstanding temperatures up to 270°F under various roofing systems, such as mechanically attached concrete or clay tile, metal, primed cedar shakes, and asphalt or composite shingles.

Built for modern roof assemblies, Gridiron Ultra RZ functions as a non-permeable air, vapor, and water barrier. As a low-permeance underlayment, it must be installed above a properly ventilated space to manage moisture and condensation risk. In situations where a breathable roofing underlayment is required, please see our alternate product, Breathex Pro.

Gridiron Ultra RZ's Redzone butyl adhesive membrane makes a strong and secure bond to plywood and OSB roof decks. On top, a thick and durable spunbonded polypropylene surface provides high-friction grip in all directions. No cleats required. This robust construction provides excellent traction while standing up to the rigours of the job site.

Engineered for jobsite flexibility, Gridiron Ultra RZ is rated for up to 180 days of UV exposure prior to degradation. For optimal system performance, installation of the primary roofing material is recommended within this exposure window.

Important Design Notice

When specifying non-breathable underlayments, a qualified design professional must verify adequate attic or assembly ventilation. Failure to provide proper ventilation may result in moisture entrapment, excessive humidity accumulation, and condensation within the roof system.

Physical Test Parameters

Meets or exceeds	ASTM D1970
Meets or exceeds	ASTM D8257
Meets or exceeds	ASTM D226
Meets or exceeds	CSA A123.3

Resistance

Water	Pass (ASTM D4869)
UV	6 months (ASTM G154)

Flexibility

Installation Temperature Range *	-10°C to 60°C (14°F to 140°F)
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Packaging

Roll Width	36" (0.91 m)
Roll Length	66.7' (20.33 m)
Roll Contents	200 sq. ft. (18.58 m ²)
Rolls per Pallet	30
Weight per Roll	36 lbs (16.33 kg)
Thickness	41 mils

Storage & Handling

Store Gridiron Ultra RZ upright in its original packaging in a clean, dry, and well-ventilated area. Recommended storage temperature range is 40°F to 90°F (5°C to 32°C).

Exposure to temperatures above 90°F (32°C) may increase adhesion between the membrane and release liner, making liner removal more difficult. If this occurs, allow the product to cool to ambient temperature prior to installation.

*Installation temperature depends on proper storage procedures being followed.



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Installation Guide

These installation instructions are intended to provide best-practice guidance for achieving optimal performance from Gridiron Ultra RZ synthetic roofing underlayment. All installations must comply with applicable building codes, local regulations, and project specifications. Where conflicts exist, governing codes shall take precedence.

1. Deck preparation

Gridiron Ultra RZ must be installed over a clean, smooth, dry, and structurally sound roof deck. The deck shall be free of voids, protrusions, loose fasteners, oil, dirt, dust, and debris. Replace any damaged, deteriorated, or water-compromised decking prior to installation. For re-roofing applications, remove all existing roof coverings. Do not install over old roofing materials. Deck moisture must be minimized to prevent buckling, deck movement, or damage to the primary roof covering.

Note: When installing the self-adhered membrane directly over wood plank decking, exercise caution. Natural resin or pitch bleed from new softwoods may occur, potentially resulting in butyl bleed-through at fascia, gutters, or exterior wall surfaces.

2. General Application Requirements

- Install when all parts of the assembly are at least 32°F (0°C) and rising.
- Refer to Cold-Weather Application for installations between 14°F and 32°F (-10°C and 0°C).
- Apply in shingle-lap fashion, working from the lowest point of the roof upward.
- Install membrane in valleys prior to eave installation.

3. Underlayment Layout

- Align the membrane horizontally (parallel to the eave) with the printed side facing up.
- Horizontal side laps shall be 3 in. utilizing the designated flat selvage edge.
- Do not overlap side laps onto the spunbonded walking surface unless unavoidable.
- End laps shall be a minimum of 6 in., staggered at least 6 ft between adjacent courses.
- Where required, secure end laps with cap nails placed 1 in. from the edge at 6 in. spacing.
- In ice-dam regions, extend the membrane from the eave upslope to a point no less than 24 in. inside the exterior wall line, measured horizontally. Check your local building code for specific requirements in this area.

4. Best Practices

- For ease of handling, cut the membrane into manageable lengths. Peel back one half of the split release liner, position the self-adhered membrane, and press firmly into place. Remove the remaining liner and complete adhesion to the deck.
- For optimal bond strength, hand-roll the membrane using a weighted roller, particularly along overlaps and selvage edges.
- Cover the self-adhered membrane with the primary roof covering as soon as practicable following installation.
- Any membrane damage or leaks must be repaired immediately to prevent moisture intrusion and potential mold development.

5. Valley Installation Detail

Center the membrane in the valley and adhere starting from the center outward. The membrane must remain in continuous contact with the roof deck throughout the valley area. Bridging or suspending the membrane across valleys is not permitted.

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Installation Guide Continued

6. Cold-Weather Application

When installing between 14°F and 32°F (-10°C and 0°C):



- Blind nail along the selvage edge every 18 in.
- For best performance, allow the membrane to warm to ambient temperature prior to application.

7. Steep-Slope, High-Wind, or High-Temperature Conditions

On roof slopes 5:12 and greater, in high-wind zones, or when ambient temperatures exceed 100°F (38°C), blind-nail the selvage edge in accordance with the cold-weather fastening requirements described above.

8. Repairs and Detailing

- Roll all perimeter edges and overlaps thoroughly.
- Repair holes, tears, or penetrations using a round patch extending 6 in. beyond the damaged area in all directions.
- Do not install fasteners through unsupported deck areas, including joints between structural panels.

9. Limitations and Safety

- Gridiron Ultra RZ is a moisture and vapor barrier and must be installed over properly ventilated assemblies.
- The membrane is not intended for indefinite exposure; final roofing must be installed within 180 days.
- Always comply with applicable building codes and project specifications.
- Follow all standard roofing safety practices. Release liners are slippery and must be removed from the work area immediately. Slip resistance may vary based on surface conditions, footwear, weather, and roof slope.

Final Notes

These installation guidelines are provided to support proper application and system performance. HAL Industries assumes no responsibility for improper installation, code violations, or design deficiencies. Always follow local building codes, project specifications, and professional design requirements.

The information provided herein, while not guaranteed, is to the best of our knowledge true and accurate. The user of such information assumes all risk connected with the use thereof. Nothing contained herein is to be construed as permission or as a recommendation to infringe any patent.

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