

R-SHIELD NAILBASE

FIELD INSTALLATION GUIDE

West-Eco Canadian Field Installation Quick Reference Guide - Roof and Wall Applications



Purpose of this guide

This field guide summarizes the installation concepts, connection details, handling guidance and technical bulletins in the R-Shield Nailbase Roof Applications Construction Manual. It is intended as a field quick reference, not a replacement for project drawings, engineering, the full manufacturer manual or applicable Canadian code requirements.

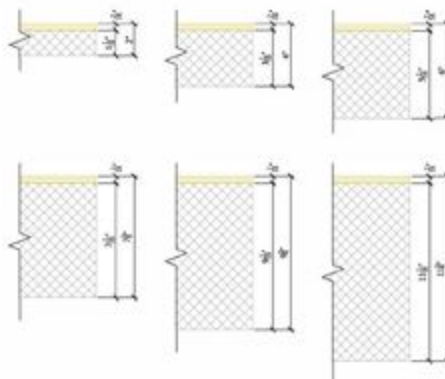
IMPORTANT Use a qualified design professional for vapour-control, fastening, structural support and project-specific roof assembly decisions.

Before installation

- Confirm the structural roof deck/supports are sound and match the project design.
- Determine vapour retarder requirements from code, climate and building design with the project professional.
- Store panels fully supported and protected from weather and prolonged sunlight. Use light-coloured opaque protection.
- Confirm panel layout, perimeter blocking, ridges, hips, openings, wall intersections and required ventilation details before starting.

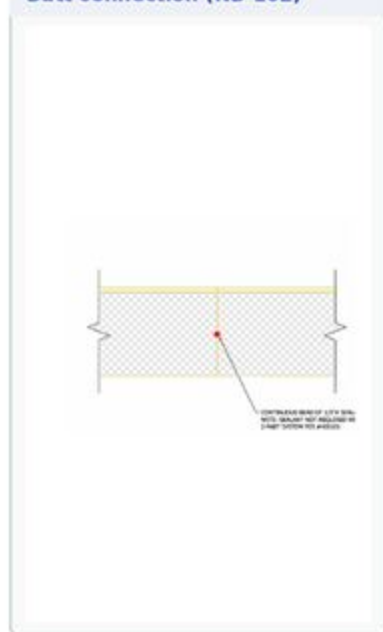
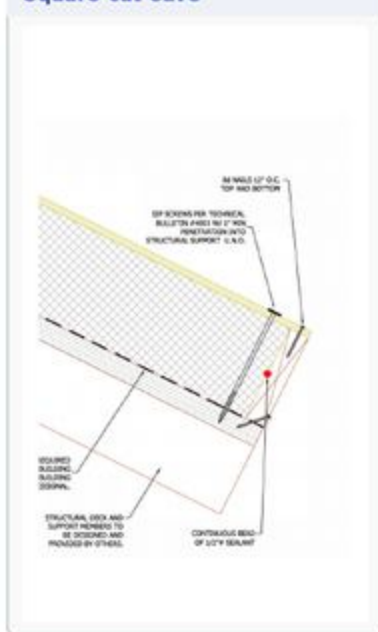
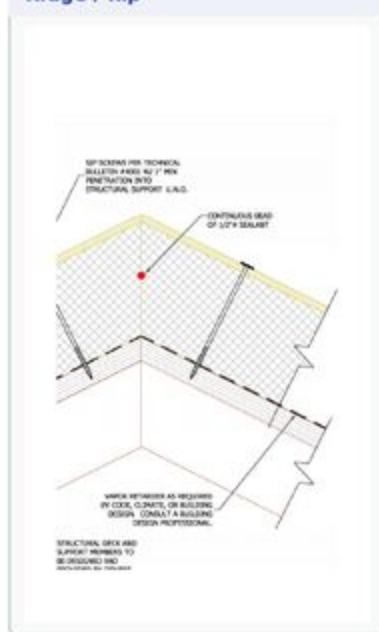
Standard sizes & dimensions (NB-100)

- NOTES:
1. STANDARD NAILBASE (2) WIDTH AND LENGTH IS 4' X 8'.
 2. STANDARD THICKNESSES OF NAILBASE (2) ARE SIZED TO ACCOMMODATE STANDARD 2X LUMBER DIMENSION VARIANCES.
 3. NAILBASE (2) FOAM IS TYPE I EPS OR TYPE I GIPS.
 4. STANDARD FACING IS 7/16" OSB.
 5. CUSTOM WIDTH, LENGTH, THICKNESS, AND FACINGS AVAILABLE.



Installation - 6 essential steps

- 1 Set out panels**
Lay out panels over the structural deck. Keep joints and perimeter conditions aligned with project drawings.
- 2 Seal joints**
- 3 Check panel bearing**
Confirm panels are fully supported by the structural deck/supports and positioned to match the project drawings.
- 4**
Use the correct WEST-ECO screws for the substrate and panel thickness. Fasten into structural support; project design governs spacing and capacity.
- 5 Complete transitions**
Seal and fasten eaves, ridges/hips, valleys, wall intersections and openings per the applicable detail.
- 6 Dry-in promptly**
Apply temporary roofing during installation and complete the finished roof as soon as practical. Allow wet OSB/joints to dry before underlayment.

Butt connection (NB-102)

Square-cut eave

Ridge / hip


Joint essentials

Maintain continuous sealing at panel joints. The manufacturer butt-joint detail uses a continuous 1/2 in. bead of sealant where required.

WALL APPLICATIONS - INSTALLATION



Wood-Framed Wall Installation

- Install Nailbase perpendicular to structurally sound wood framing.
- Support all vertical panel edges with framing members.
- Fasten through the insulation into wood studs using minimum 0.113" diameter nails with at least 1 1/2" penetration.
- Fastener spacing must comply with applicable code and project requirements.
- Install WRB, flashings and exterior cladding in accordance with code and cladding manufacturer instructions.

At transitions, maintain sealant continuity, structural support/fastener engagement, and the vapour-control strategy specified for the project.

Metal roofing & ventilation

- Manufacturer recommends above-deck ventilation for metal roofing where required by the assembly design.
- Ventilation helps remove unintended moisture, reduce condensation risk and lower heat at the Nailbase upper surface.
- Use a vapour-permeable roofing underlayment where specified and follow the roof-cladding manufacturer's attachment requirements for the 7/16 in. OSB facing.

Fastener selection

- Wood substrate:** WEST-ECO wood screws attach Nailbase to wood structural members/substrates.
- Light-gauge steel:** WEST-ECO light-duty metal screws are used for attachment to compatible light-gauge steel substrates.
- Structural steel:** WEST-ECO heavy-duty metal screws are used for structural steel substrates; manufacturer guidance calls for low-rpm, high-torque installation.
- Design responsibility** Fastener length, spacing, capacity and safety factors are project-specific and are to be determined by the architect/engineer. Manufacturer details commonly show 1 in. minimum penetration into structural support unless otherwise noted.

Field close-out checklist

- ☐ Panels are fully supported and securely fastened to the designed substrate.
- ☐ Joints, perimeters, ridges/hips, valleys and wall intersections are sealed as detailed.
- ☐ Vapour retarder/air-control requirements have been followed for the specific building and climate.
- ☐ OSB and panel joints are dry before roofing underlayment is installed.
- ☐ Roof underlayment and cladding are compatible with Nailbase and installed to their manufacturer instructions.
- ☐ Panels are protected from weather/UV until roofing is complete.

Project-specific panel sizes, pricing and technical coordination: Sales: 778-836-3103 | Office: 250-320-5680 | info@westecopanel.com | westecopanel.com