

**BLUE HILLS TECH LLC**

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**DRAFT SPECIFICATION**

**TB ROOF—Non Ventilated Roof Insulation**

TB Roof is a composite nailbase roof insulation panel. See company literature or website www.techbreaker.net. This spec is usually placed in Section 07 22 00 under the heading Nailbase Roof Insulation.

1. General
	1. WORK INCLUDES

 A. The work shall consist of covering all areas shown on the drawings with ventilated roof insulation

1.02. RELATED WORK

 A. Specified elsewhere:

 Section 07 --- Asphalt shingles, metal roofing or other roofing system over the nailbase insulation.

* 1. SYSTEM DESCRIPTION
1. Description of system:
	1. The nailbase roof insulation shall be a preassembled panel consisting of one layer of 7/16” oriented strand board and XPS or Polyiso insulation on the bottom.

~ Architect’s option for foam: XPS Extruded Polystyrene or Polyiso: For top surface: ½”, 5/8” or 3/4” OSB or Plywood. FRT or Standard

 **The Long Term Thermal Resistance (LTTR) R-Value of the nailbase roof insulation shall be no less than \_\_\_\_\_ .**

Panels are square edged and require a 1/8” gap at the sheathing juncture for expansion. This gap may be created by the use of ‘H’ Clips or an alternate method. Creating a two-layer system using a base foam layer with staggered joints relative to the TB Roof upper panel is desirable and required with thicker configurations.

B. Performance Requirements:

1. The foam insulation shall have a Flame Spread Rating:

XPS Foam: < 15

Polyiso Foam: < 75

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1.04. QUALITY ASSURANCE

A. TB Roof nailbase insulation meets the identical performance and construction specifications of UL 632 for XPS based panels and UL 120 and UL 123 for Iso based panels.

* 1. SUBMITTALS

 A. The following will be submitted to the architect for approval:

Copies of the manufacturer’s product information and installation instructions.

Fastener pattern if required

 1.06. DELIVERY AND STORAGE

 A. The insulation panels shall be protected in the transit by plastic covers and by truck tarps. When material is stored at the jobsite, a reasonably level, drained storage area shall be provided. The insulation shall rest on firm blocking and shall be covered with tarps.

 1.07. SEQUENCING/SCHEDULING

 A. Erection of the insulation panels shall be coordinated with the roofing subcontractor so the roofing is applied as soon as possible after insulation is in place.

1. PRODUCT

 2.01. Products shown below are acceptable provided they meet the requirements of this specification:

 A. **TB ROOF** by Blue Hills Tech LLC, Holcombe WI 54745

 Tel: 715-828-0578 [www.bluehillstech.net](http://www.bluehillstech.net)

1. **SIP Fasteners** as required per the appropriate fastener pattern.

3. EXECUTION

 3.01.

A. The structural roof deck shown in the plans shall be smooth and level and free of water or debris before the ventilated insulation is installed. Apply vapor retarder if required.

NOTE: BHT recommends that the designer carefully considers the need for a vapor/air retarder.

 3.02.

 A. Installation shall follow the manufacturer’s written installation instructions.

B. Fasten with SIP Fasteners to the supporting roof deck shown in the plans with the appropriate Fastener Pattern.

C. Protect nailbase insulation work from exposure to moisture damage and deterioration, primarily by prompt installation of the roofing, sheet metal and waterproofing work.

D. Panels are square edged and require a 1/8” gap at the sheathing juncture for expansion. This gap may be created by the use of ‘H’ Clips or an alternate method. Creating a two-layer system using a base foam layer with staggered joints relative to the TB Vented Roof upper panel is desirable and required with thicker configurations.

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