



INNOVATIONS FOR LIVING®

# OptiLiner™ Banded Liner System Bi-Directional Banding Option

## Technical Bulletin

### Introduction

The OptiLiner™ Banded Liner System is designed to provide maximum thermal performance in pre-engineered metal buildings using Owens Corning™ metal building insulation. In addition to excellent thermal performance, this system offers outstanding acoustics, attractive finished appearance and a brighter interior.

This document shows procedures for installing an alternative bi-directional banding design that installers can use with the OptiLiner™ roof system in order to provide a different finished appearance than the standard single direction traverse banding scheme. Please refer to the Owens Corning™ OptiLiner™ Roof Installation Instructions (publication 10011627) for additional information concerning the required materials, equipment and tools needed for the installation as well as the procedures for installing the fabric and insulation materials within the OptiLiner™ roof system.

### Safety Considerations

Installation contractor must have a site specific safety plan. Comply with all OSHA applicable local rules and regulations when installing this system. **WORKERS MUST USE OSHA REQUIRED FALL PROTECTION WHEN INSTALLING THE BANDED LINER SYSTEM AT HEIGHTS.** (SEE OSHA REGULATIONS AT 29 CFR 1926, SUBPART M)

Caution: Banding has sharp edges. Use caution when handling. Wear cut proof gloves.

Required Personal Protective Equipment: Safety glasses, cut proof gloves, long sleeve loose fitting clothing (for insulation installation)

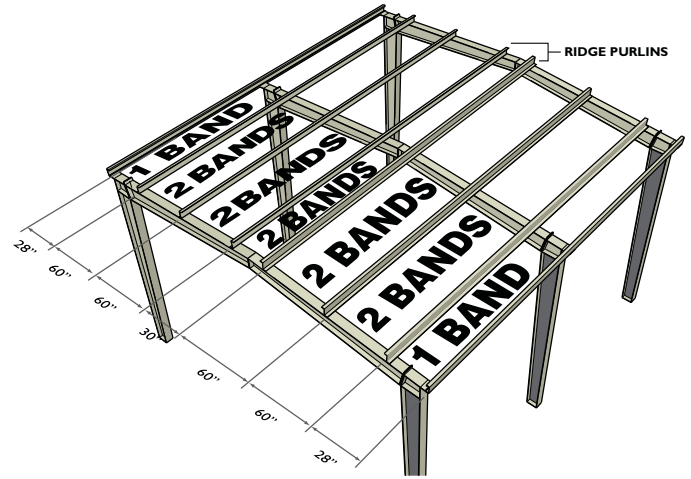
### Installation

#### Longitudinal Banding Parallel to the Purlins

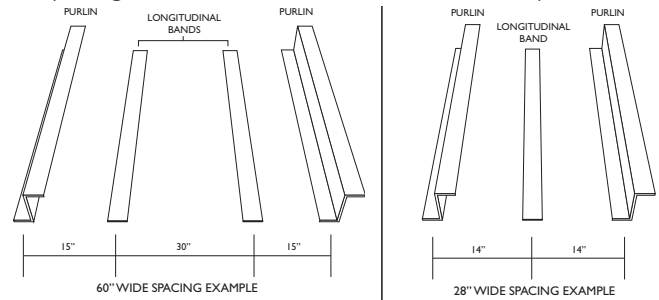
1. Determine the number of bands required based on the building size and design. This will include accounting for the following:

- Two bands between the ridge purlins regardless of the spacing.
- Two bands for each purlin spacing that is greater than 30 inches on center.
- One band for each purlin spacing that is less than 30 inches on center.

The following sample building would require 12 longitudinal bands:

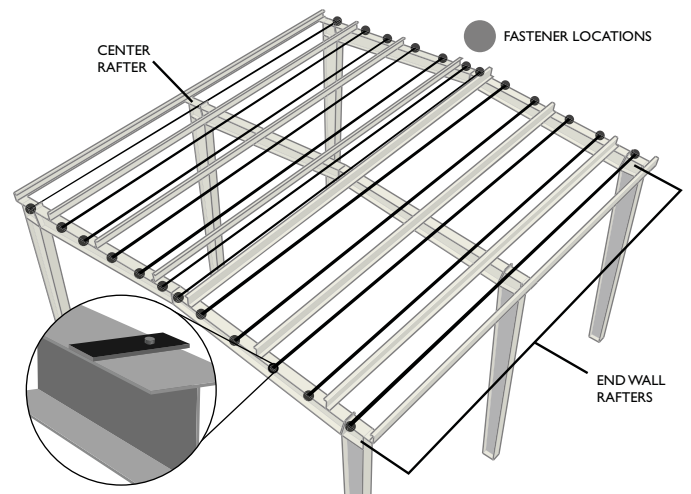


2. Position each band off of the purlins equal to  $\frac{1}{4}$  of the purlin spacing for all spacings greater than 30 inches. For spacings less than 30 inches, divide the cavity in half.



3. Set up rolls of steel banding to dispense parallel to the purlins. Cut all bands to reach from end wall to end wall and add one foot to each band for handling and fastening.

4. Pull bands from end wall to end wall over each rafter and fasten each band to each end wall rafter using a single fastener. If necessary, bands may be spliced at the center rafters.





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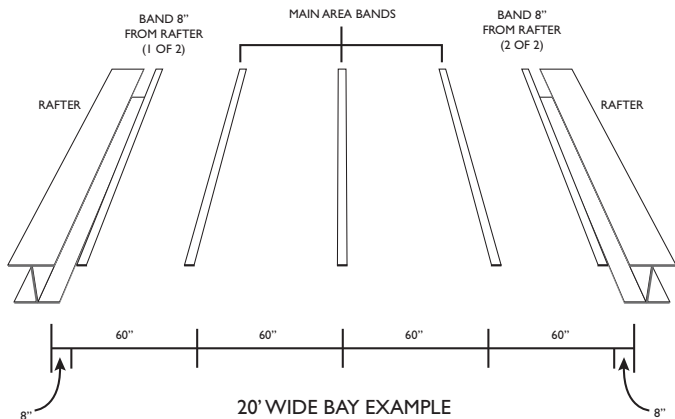
### Traverse Banding Perpendicular to Purlins

1. Determine the width of the bay and refer to Table 1 for number of bands required

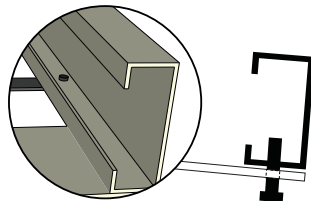
Table 1

Bay Width (feet)	# Bands for Main Area	# Bands 8 inches from Rafter	Total # of Bands for Bay
11-15	2	2	4
16-20	3	2	5
21-25	4	2	6
26-30	5	2	7
31-35	6	2	8
36-40	7	2	9
41-45	8	2	10

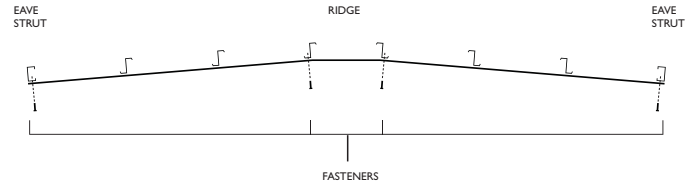
2. Divide the bay into equal increments for installing main area banding 60 inches on center or less.
3. Locate one band 8 inches off each rafter in addition to the above banding.



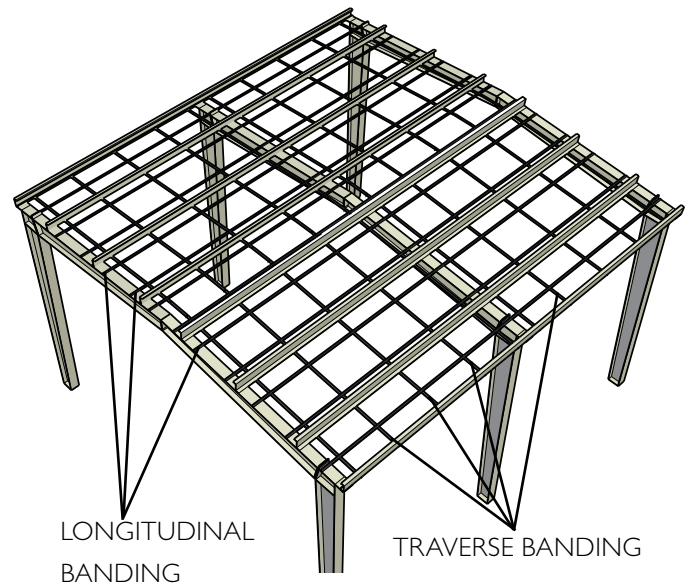
4. Set-up rolls of steel band on the supplied dispenser to be dispensed perpendicular to purlins.
5. Cut bands to reach from eave-to-eave while accounting for roof pitch. Add one foot to each band for handling and fastening (refer to erection drawings).
6. Fasten one end of each traverse band to the bottom of sidewall eave strut using one fastener through the center of the eave strut.



7. Pull each band hand tight to each ridge purlin weaving through every second or third longitudinal band and fasten with supplied screws. Finally pull each band hand tight to opposite eave strut and fasten.



8. Sample final banding pattern.



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