



VINYL RIB ROOFING SYSTEM

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INTRODUCTION

This document outlines the requirements for installing the Duro-Last® Vinyl Rib Roofing System. The installation of vinyl ribs takes place after the installation of the membrane roof system and therefore, this document acts as a supplement to either the Duro-Last Adhered Duro-Fleece® Roofing System Specification or the Duro-Last Adhered Roofing System Specification.

The vinyl ribs may only be installed over a roof membrane which has been adhered to a cover board. The cover board must be attached with insulation adhesive so that mechanical fasteners and plates do not interfere with the vinyl rib installation. This document identifies the roof membranes, membrane adhesives, cover boards and insulation adhesives that may be used when installing vinyl ribs. Refer to the appropriate adhered membrane specification, as mentioned above, for a complete set of requirements for installing the roof system.

REQUIREMENTS

1. The roof system and vinyl ribs must be installed by an authorized Duro-Last contractor.
2. The roof system must only be installed over specific cover boards as described in this specification.
3. The roof membrane must be roll goods, unless the run for the vinyl ribs is less than 20 feet. Then, a prefabricated membrane sheet up to 52 ft. by 20 ft., rolled on a carpet tube, may be used. **All prefabricated membrane sheets must not be folded and must be packaged on carpet tubes.**
4. The roof membrane must be 50 mil, or greater, and approved as described in this specification.
5. The roof membrane must be adhered with an approved adhesive as described in this specification.
6. The roof membrane should be installed so that overlaps between membrane sections run parallel to the slope of the roof.
7. The cover board, on which the roof membrane is installed, must be attached with an approved insulation adhesive as described in this specification. **Mechanical fasteners must not be used to attach the cover board.**
8. Optional insulation and/or base board, installed underneath the cover board, may be mechanically attached, or adhered, to the substrate. Refer to the appropriate roofing specification for installation procedures and approved fasteners/adhesives.
9. For non-residential installations, a Duro-Last Technical Representative must inspect the Duro-Last roofing system before a commercial warranty can be issued. Residential installations are not inspected by Duro-Last, and receive a material warranty only.
10. For non-residential installations, vinyl ribs must be installed after the roof membrane installation has been inspected by Duro-Last. For Residential installations, vinyl ribs may be installed at the discretion of the roofing contractor, but generally after the completion of the roof membrane installation.
11. All products must be supplied by Duro-Last, Inc. The use of any other product, not listed in this specification, must be approved, in writing, by the Duro-Last Engineering Services Department prior to installation.

APPROVED ROOF MEMBRANES

The Vinyl Rib Roofing System must utilize only the following roof membranes. Refer to the product data sheets of the membranes for application guidelines, requirements and limitations.

1. Duro-Last
2. Duro-Fleece
3. Duro-Fleece Plus®
4. Duro-Tuff®
5. Duro-Last EV

APPROVED MEMBRANE ADHESIVES

The following adhesives must be used to adhere the roof membrane to an approved cover board. Refer to the product data sheets of the membrane adhesives for application guidelines, requirements and limitations. The Safety Data Sheets (SDS) for the products must also be read prior to use.

1. Duro-Fleece and Duro-Fleece Plus membrane adhesives
 - a. Duro-Fleece CR-20 Membrane Adhesive
 - b. Duro-Last WB II Adhesive
2. Duro-Last, Duro-Tuff and Duro-Last EV membrane adhesives
 - a. Duro-Last WB II Adhesive
 - b. Duro-Last SB IV Adhesive

APPROVED COVER BOARDS

The roof membrane must be adhered to one of the following cover boards. Refer to the product data sheets of the cover boards for application guidelines, requirements and limitations.

1. Duro-Guard[®] cover boards
 - a. DensDeck[®] Prime Roof Board
 - b. SECUROCK[®] Gypsum-Fiber Roof Board
 - c. DEXcell[™] FA Glass Mat Roof Board
2. Cover board must be attached with approved insulation adhesive.
3. Cover board must be a minimum of 1/4-inch (6.4 mm) thick.
4. Maximum cover board size is 4 ft x 8 ft.
5. When installing directly over a steel deck, the cover board must have an adequate span rating, as stated on the product data sheet, for the profile of the steel deck.
6. When installing cover board as part of a metal roof retrofit, insulation boards will be needed to fill the area between the metal ribs and provide support for the overlying board.

APPROVED INSULATION ADHESIVES FOR COVER BOARDS

The cover boards must be adhered with the following insulation adhesives. Refer to the product data sheets of the insulation adhesives for application guidelines, requirements and limitations. The Safety Data Sheets (SDS) for the products must also be read prior to use.

1. Duro-Grip[®] insulation adhesives
 - a. Insta-Stik[™]
 - b. OlyBond500[®] and OlyBond500 SpotShot
 - c. OlyBond500[®] Green and OlyBond500 Green SpotShot
 - d. CR-20
 - e. Weather-Tite[®] Hurricane Force[®] PG-1
 - f. Weather-Tite One Step[™]

VINYL RIB DESCRIPTION

Material – Composed of extruded Poly-Vinyl Chloride (PVC).

Profile – The ribs measure 1-3/8" wide at the base and taper to a point at the top, standing 1-inch tall.

Length – Individual sections are 10 feet long and may be strung together to the desired length.

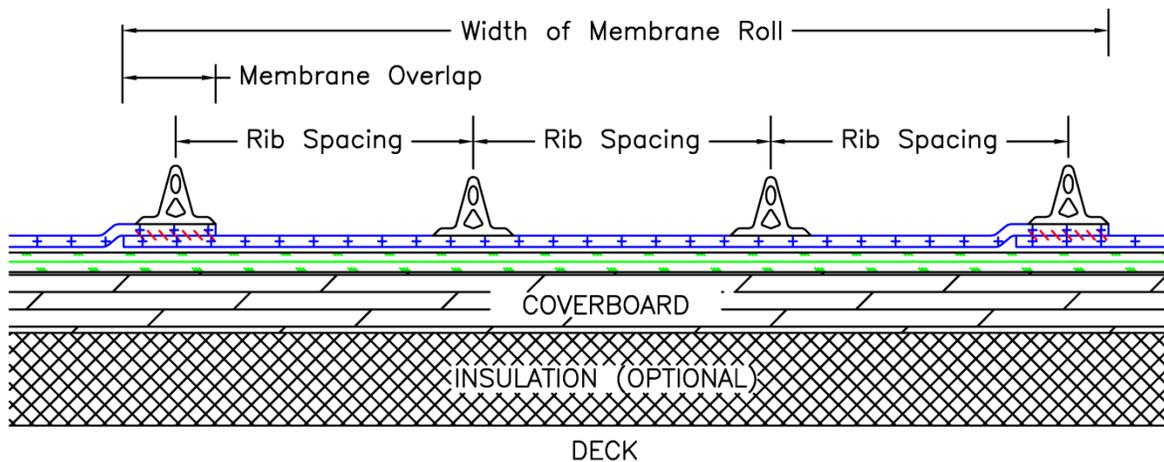
Colors – Refer to product data sheet for available colors.

Ordering – Contact Duro-Last for minimum lead time and order quantity requirements.

VINYL RIB INSTALLATION

The vinyl ribs will be installed parallel with roof slope where possible. The top surface of the roof membrane must be clean in order to obtain a proper weld.

1. The vinyl ribs should be installed so that a rib covers each overlap, and weld, between roof membrane sections and so that the ribs are spaced evenly as illustrated below. Additional rows may be installed between the vinyl ribs that cover the welds



2. Determine the location of the first rib. The first overlap between sections of roof membrane located adjacent to a perimeter edge is a good place to start.
3. Align the rib material up with the edge of the overlapping membrane section, as shown in the drawing above. Do not cover the edge of the seam. Check that the distance from the perimeter edge to the rib is the same along the entire rib length. Proper alignment of the first rib is very important. Prior to attaching the rib, get off the roof and view the rib from a distance to ensure that it is situated properly. If the edge of the membrane does not prove to be an adequate guide, use a chalk line instead.
4. Use a hot-air welder to attach the rib to the roof membrane. Use extreme care to keep the edge of the rib aligned with the reference line being used. Confirm that the installed rib is situated properly by viewing it at a distance prior to installing additional ribs.
5. Once the first rib is installed, utilize a custom-made jig, for proper spacing, to install subsequent ribs.