

TL-0007 — Use Under Architectural Metal Roofing

GRACE VYCOR™ ICE & WATER SHIELD®, GRACE VYCOR™ ICE & WATER SHIELD® HT, GRACE VYCOR™ ULTRA™, GRACE VYCOR™ SELECT™, and ROOF DETAIL MEMBRANE are recommended for use under architectural metal roofs of all colors and compositions. CertainTeed granular underlayment is a granular surfaced membrane and should not be used without consulting the metal roofing manufacturer or your CertainTeed sales representative. The membrane should be applied directly to a clean, dry, continuous structural deck. Some suitable deck materials include plywood, wood composition, wood plank, metal, concrete, or gypsum sheathing. Decks shall have no voids, damaged, or unsupported areas. Repair deck areas before installing membrane. Mechanically fastened rigid insulation may be applied over the self-adhered membranes. All types of rigid insulation boards are acceptable for use in this manner. Rigid insulation should not be hot mopped onto the membrane.

Use Under Copper, COR-TEN® and Zinc Metal Roofing

Copper, COR-TEN® and zinc metal roofing have inherent properties that cause roofs constructed with these materials to become much hotter than other roofs. These metals absorb most of the energy reaching them from the sun (high thermal absorption), reflect little energy (low reflectivity), and conduct heat very rapidly (high thermal conductivity). Therefore, there are special design considerations for underlayments used under these metal roofs, due to the high in-service temperatures that these roof assemblies can reach. GRACE VYCOR™ ULTRA™ is recommended for use under copper, COR-TEN® and zinc in high altitude climates. GRACE VYCOR™ ULTRA™ is formulated with 100% butyl adhesive and is designed to withstand even the highest in-service roof temperatures. This membrane provides the highest factor of safety in high temperature roof applications. Check with your CertainTeed technical sales representative for assistance in selecting the best product for your application. In addition to the high temperature on zinc roofs, the designer should also be aware that an air space is needed between the CertainTeed underlayment and the zinc roof to prevent corrosion of the zinc.

Welded Architectural Metal Seams

Some architectural metal roofing systems require that the seams between panels be welded. If the architectural metal is applied directly over the membrane, it is possible that the heat from the welding operation could cause damage. The underlayment should be adequately protected from the heat of the welding process. What constitutes protection will depend on the type of metal, the type of torch, and the seam system being used. In some cases, contractors have found that two layers of #15 roofing felt, placed only in the metal seam area, offered sufficient thermal protection from a welding operation.

Non-Compatible Materials

The GRACE VYCOR™ portfolio of underlayments are not compatible with the following substances:

- Creosote
- Diesel Fuel
- Gasoline/Oil
- Hydrocarbon Solvents
- Pentachlorophenol
- Polysulfides
- EPDM*
- Flexible (plasticized) Polyvinyl Chloride (PVC)*
- Uncured Neoprene*
- TPO*

For compatibilities of other substances and products not listed above or if there is a need to further investigate, please consult your local CertainTeed technical sales representative.

* Note: EPDM, flexible (plasticized) polyvinyl chloride—PVC, uncured neoprene and TPO are not compatible with rubberized asphalt. GRACE VYCOR™ ICE & WATER SHIELD®, GRACE VYCOR™ ICE & WATER SHIELD® HT, GRACE VYCOR™ SELECT™, and ROOF DETAIL MEMBRANE are manufactured with a rubberized asphalt adhesive and should not be applied directly to these materials. A barrier such as 0.040 inch to 0.060 inch (1.0 mm to 1.5 mm) flat sheet metal is required to keep the material separated. Only GRACE VYCOR™ ULTRA™ may be applied directly to EPDM and TPO.

CertainTeed.com | Customer Service: 800-233-8990

This document is only current as of the last updated date stated below and is valid only for use in North America. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on [certainteed.com](https://www.certainteed.com). Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact CertainTeed Customer Service.