

ACRYLITE® Installation Guidelines

Multi-Skin Acrylic Sheet

STORAGE

- Store wrapped pallets under a solid roof out of direct sun. Prevent solar heating and moisture absorption.
- Transfer stored multi-skin directly to the roof. Placing sheets on the ground may cause warping.
- Remove sheet masking as soon as possible. Sun degrades masking, making it difficult to remove.

CUTTING

- Cut multi-skin with a handheld circular saw and an acrylic cutting blade.
 - Reputable acrylic blade suppliers include Forrest, Freud, and Amana.
 - Support multi-skin under both sides of the cut and clamp a straight guide board on top.
 - Blow cutting debris out of multi-skin channels with compressed air.
- Try making rip cuts within 5/8" of nearest multi-skin rib. A spacer is available if close cuts are not practical.

MOISTURE AND DUST CONTROL

- Seal the top of each sheet with 3M #425 aluminum tape. The seal keeps dust and moisture laden air from rising up through the channels in the multi-skin.
- Enclose the bottom of each sheet in an aluminum extrusion.
 - The bottom extrusion must allow condensation to drain from all the channels.
- Install Alltop with either side down; Alltop's hydrophilic coating is on both sides and within the channels.
- Install all other products with the hydrophilic NO DRIP side, indicated by the embossed ACRYLITE® logo, facings inwards towards high humidity.

SAFETY

- DO NOT WALK ON ACRYLIC ROOFING. Lay 2'x10' walking planks across acrylic roofing.
 - Use non-slip foam or rubber sheets under walking planks to prevent scratches.
- Use only approved paints, cleaners, sealants and gaskets. Non-approved products may attack acrylic.
 - Recommended sealants include DOWSIL™ 795 and GE SilPruf™ SCS2000.

ROOF STRUCTURE

- Pitch roofs at least 1" for every 12" of run to insure water sheds off.
- Consider white reflective paint for top surfaces of the roof structure. If these surfaces absorb solar radiation, the acrylic sheet may overheat.
- Design for expansion due to temperature and humidity.
 - Provide space and support for 1/8" expansion for every 1' of length.
 - Sheets 24'0" long on a dry winter day may grow to 24'3" on a humid summer day.
 - Allow sheets to expand by limiting clamping forces and including a sufficient pocket at the ridge.
- Support multi-skin sheets with an aluminum bar and cap glazing system designed for acrylic. The glazing system must limit clamping forces, so the acrylic sheet is free to expand and contract.
 - Rigidly held acrylic may crack.
 - Glazing systems with EPDM gaskets allow multi-skin panels to expand and flex without damage.
 - DO NOT POINT FASTEN MULTI-SKIN ACRYLIC.

ACRYLITE® Installation Guidelines

Multi-Skin Acrylic Sheet

ACRYLITE®

- Space the glazing bars to engage 5/8" of acrylic on each side of the sheet.
- Include horizontal purlins for loads above 15 psf.
 - 8mm sheet with a 20 psf load requires purlins 7' on center.
 - 16mm sheet with a 20 psf load requires purlins 14' on center.
 - Higher snow and wind loads require more supports. Contact Technical Service for assistance.
- Provide support spacers if the purlins are > 1/2" below the multi-skin sheets. White EPDM rubber blocks or white painted aluminum Z spacers are good choices.
 - Cut the spacer width equal to 2 multi-skin channel widths.
- Add an additional glazing bar 24" from each gable end to resist wind-induced uplift.

MORE HELP

- Call Roehm America Technical Service at 207-490-4230 and visit www.acrylite.co

Roehm America LLC
Acrylic Products

1796 Main Street
Sanford, ME 04073
USA

www.acrylite.co
www.roehm.com

1-855-202-7467
info@acrylite.co

Röhm GmbH and its affiliates are a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.

Fire Precautions

ACRYLITE® sheet is a combustible thermoplastic. Precautions should be taken to protect this material from flames and high heat sources. ACRYLITE® sheet usually burns rapidly to completion if not extinguished. The products of combustion, if sufficient air is present, are carbon dioxide and water. However, in many fires sufficient air will not be available and toxic carbon monoxide will be formed, as it will when other common combustible materials are burned. We urge good judgement in the use of this versatile material and recommend that building codes be followed carefully to assure it is used properly.

Compatibility

Like other plastic materials, ACRYLITE® sheet is subject to crazing, cracking or discoloration if brought into contact with incompatible materials. These materials may include cleaners, polishes, adhesives, sealants, gasketing or packaging materials, cutting emulsions, etc. See the Tech Briefs in this series for more information, or contact your ACRYLITE® sheet Distributor for information on a specific product.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technical progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products should be used.