

## ALUMINUM FRAMED SKYLIGHTS

### Aluminum Framing

Sky-Tech Sky-lights frames are fabricated from 3" - 6063-T5 extruded aluminum alloy. In addition to this, our 3" base frame components incorporate a 1/2" Techo Form Dual plastic strut, which thermally divides the warm inner portion of the aluminum frame, and the cold outer portion, providing an increased thermal efficiency. All skylights have 1" interior condensation gutter, and a full 3/4" round inserted closed cell curb air seal gasket.

The corner joints on all of our skylights have a continuous heliarc weld to provide protection against leakage. All aluminum framed skylights are supplied in mill finish. Optional custom coloured powder coated finishes or anodized finishes are available on special order.

Larger tandem and cluster skylights are custom fabricated to suit specific jobsite conditions. Framing and glazing components are mechanically connected and assembled on site. The skylights are designed to include provisions for expansion and contraction, and to preserve water tight integrity without the use of mastic and caulking.

## Glazing Materials

### Acrylic

Acrylic skylight models, the clear interior acrylic material will be 4.5mm thick, the exterior clear acrylic material will be 4.5mm thick. Bronze tinted acrylic, or white translucent acrylic domes are available on request.

Sky-Tech Sky-lights uses only high quality acrylic or polycarbonate glazing. Acrylic glazing materials are thermally formed and are an excellent choice for domed skylights. Also Acrylic is less expensive, lighter, and stronger than glass. Acrylic glazing provides better ratings against heat loss than to those of standard uncoated glass.

Clear Acrylic should be used where maximum amount of direct light is desired, should be used only where glare, and solar heat transmission are not important. Tinted glazing reduces glare, brightness and solar heat transmission. Our standard bronze acrylic offers a significant reduction in solar heat gain, and a significant reduction of light. White translucent acrylic is excellent for, reducing glare, eliminating shadows, and minimizing solar heat gain. It is commonly used where privacy is an issue.



\*Prior to construction, check with all local building authorities and check building codes for compliance.

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## Single, Double and Triple Glazing

Single glazed skylights should only be used for unheated structures such as patio covers, garages, entrance canopies and cold storage warehouses.

Double glazed skylights are recommended for most applications to provide thermal insulation and guard against condensation. They will reduce heat loss in winter and solar heat gain in summer.

Triple glazed skylights provide maximum insulation values that are approximately 45% better than those of double glazed skylights.

In high humidity areas, condensation issues can be avoided by installing a ceiling panel beneath a double glazed skylight. A ceiling panel consists of a flat sheet of acrylic installed in the skylight opening at ceiling level. (or on larger skylights a suspended ceiling grid and smaller acrylic panels may be used) Ceiling panels are recommended for such high humidity areas such as kitchens, bathrooms, above pools and spas, or where lack of air movement in deep light shafts causes excessive condensation build up.

## Maintenance & Cleaning Procedures

Domed skylights are generally maintenance free because they are self washing on the outside. However should cleaning be required use the following procedures as recommended by the manufacturer of the acrylic sheet.

Wash the acrylic dome with a mild soap or detergent and lukewarm water, using a clean sponge or a soft cloth. Rinse well with clean water. Dry thoroughly with a chamois or moist cellulose sponge to prevent water spots.

Fresh paint splashes, grease and smeared glazing compounds can be removed easily before drying by rubbing lightly with a good grade of isopropyl alcohol or butyl cellosolve (2-Butoxy Ethanol). Afterward, a warm final wash should be made using mild soap or detergent solution and ending with a thorough rinsing with clean cold water.

Scratches and minor abrasions can be removed or minimized by using by using a mild automotive polish (not rubbing compound). Three such products that tend to polish and fill scratches, making them invisible, are Johnson paste wax, Novus plastic polish #1 and #2, Novus Inc. Minneapolis, Minnesota, and Mirror Glaze plastic polish (M.G. M10). It is suggested that a trial test be made on a sample of acrylic sheet before proceeding with the Skylight repair.



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## *Some Important "Don'ts"*

Do Not use abrasive or high alkaline cleaner on acrylic sheets and domes.

Never scrape acrylic sheets and domes with squeegees, razor blades or other sharp objects, abrasive pads, dry sponges, steel wool, dry cleansers etc.

Benzene, gasoline, acetone, solvents, plastic glues, industrial adhesives, certain silicones and caulking compounds, or carbon tetrachloride should never be used on or near acrylic.

Do Not clean acrylic domes in hot sun, direct sunlight or at elevated temperatures.

Periodically visually inspect the exterior frame and skylight. If any problems are encountered please contact your local dealer or Sky-Tech Sky-Lights.

***For further information, Please contact us at:***

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Member: Better Business Bureau, Alberta Construction Association GreenSpec® listed

**CANADIAN DESIGNED and ENGINEERED SKYLIGHT TECHNOLOGY  
FOR CANADA'S EXTREME CLIMATE CONDITIONS  
Use of our products may help you obtain credits toward LEED™ Green building  
Certification**



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