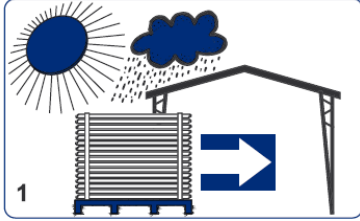
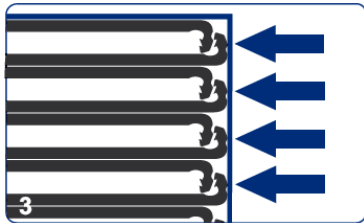


STORAGE INSTRUCTIONS

Always store skylight materials in a safe area. Materials have to be in a cool, shaded, well ventilated, dry area that is free from “falling debris”. Materials may be stored, for short periods, at temperatures up to, and not exceeding, 40°C.



Panels should be stored on a straight, smooth, level surface. A full panel-length layer of plywood is recommended under the first sheet of Danpalon.



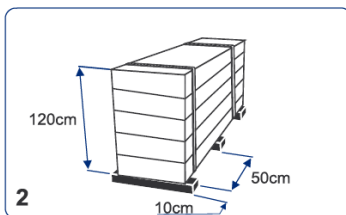
Although DANPALON panels have a protective film on them, care in handling should be taken to protect the panels from denting or scratching. This film will become difficult, or impossible, to remove if panels are left in direct sunlight or excessive heat.



The panels must be stacked in a way that each panel is supported by the one under it along its full length and width, and not higher than 1.2 meters per stack. Panels are to be stacked in the aforementioned manner to avoid denting, folding, or permanent deforming. Due to the nature of the extrusion process in the manufacture of this product, minor imperfections or denting are acceptable and will not affect performance of warranty issues

Storage recommendation:

- Maximum panel stacking height 1.2 meter
- Maximum distance between support 50 cm
- Maximum support width 10 cm



FIELD FABRICATION

- Danpalon may be field cut to length or width using a jig saw or a circular saw with a fine tooth blade.
- Always blow out dust particles from the inner cells of the panel after field cutting.
- Cover cut ends of panels with a tape, according to following sealing recommendations, to keep interior of panel cells clean.
- Danpalon may be field bent according to the following guidelines:

Panel thickness	Minimum cold Bending radius
4 mm	3,200 mm
8 mm	2,500 mm
10mm	2,700 mm
12mm	2,800 mm
16mm	3,100 mm
22 mm MC	3,500 mm
3DLITE	5,000 mm
35 mm	4,400 mm

CLEANING INSTRUCTIONS

WASHING

The ideal way to remove dirt, debris and saw chips before washing is with compressed air or air blowers. (Do not spray water into flutes of panels.)

Cleaning from time to time is essential. After blowing out debris, wipe down the outside of panel with a soft rag or sponge and a mild soap/water solution (e.g. Palmolive dish washing detergent).

Do not use scrub brushes as these will scratch panels. Then simply rinse with clear water and dry water droplets with a soft cloth or chamois.

ALWAYS TEST THE SELECTED CLEANING AGENT AND METHOD ON A SMALL UNOBTRUSIVE AREA TO VERIFY THAT THE PANEL SURFACE IS NOT DAMAGED, BEFORE CLEANING THE ENTIRE GLAZING SYSTEM

SUGGESTED DETERGENTS

- TOP JOB by Proctor & Gamble
- JOY by Proctor & Gamble
- WINDEX by Drackett Products
- PALMOLIVE LIQUID by Colgate Palmolive

Approved detergents are compatible with the Danpalon sheet products only when the manufacturer's recommendations and instructions are followed.

REMOVAL OF FOREIGN SUBSTANCES

To remove stubborn stains such as grease, adhesives, fresh paint splashes, silicones, inks, etc., the use of VM&P Naphtha, Isopropyl Alcohol, Kerosene, or Petroleum Spirits will generally soften the stain for removal. It is very important to only work a small area (60x60 cm) at any one time. After removal of stains, a final wash and rinse

should be made following the suggested washing instructions. The use of duct tape often works well for removal of old paint.

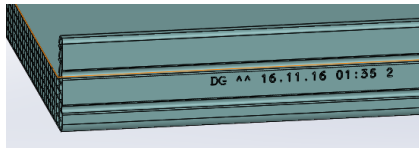
For all mentioned chemicals consult the manufacturer's material safety datasheet (MSDS) for proper safety Precautions

SOME IMPORTANT "DON'TS"

- Never use unapproved cleaners such as highly abrasive polishes, muriatic acid, methyl ethyl ketone, alkaline, acetone, gasoline, benzene, aromatic or halogenated solvents, etc. They may damage DANPALON sheet products.
- Don't leave cleaners on the sheet for long periods, wash immediately.
- Avoid cleaning DANPALON in hot sun or at elevated temperatures as this may dry the water droplets rapidly, creating hard water deposit stains.
- Avoid use of cleaning tools on DANPALON products, such as brushes, squeegees, razor blades or scrapers.
- Don't use alcohols on the UV protected surfaces of the DANPALON sheets.

INSTALLATION (Important Notes)

- Allow for expansion and contraction 3 mm for each 1 meter of panel. ($\Delta T=50^{\circ}\text{C}$)
- Remove the protective film from Danpalon immediately upon installation to avoid melting of film to panel.
- Handle materials with care.
- Install the panel with the UV protection facing the sun. An arrow on the side of the panel should point outward.



- Roof Fastener - Use only recommended fasteners, screws, etc., level, straight, etc. to allow movement. Install roof fasteners per the design spec.
- Panel end must be fixed into proper framing.
- Don't create excessive stresses, deformation, twisting, etc. on your installation.
- Prior to installation it is recommended to read DanPal literature and/or technical personnel be consulted.

Silicone Recommendation

- The following Sealants are generally recommended for use with DanPal sheet,
- It is strongly recommended to consult Danpal technical people when using sealing compounds to check compatibility before use.
- Care should be taken not to use Amine nor Benzamid curing silicone sealants, which are **not** compatible with DanPal sheets and result in cracking, particularly when stress is involved.
- When using glazing compounds it is essential that the sealant system accepts a certain amount of movement to allow for thermal expansion, without loss of adhesion to the frame or sheet.

Partial list of recommended Silicone sealants, from our experience and from publications of other polycarbonate companies:

DOW CORNING

Double-N Glass & Metal Sealant

3793

7098

791-P

795

999

Trademate- silicone sealant

GE

Multisil SCS 5500 (sukit)

Silpruf SCS 2000

RTV 5818

3M

3M™ Adhesive Sealant 740 UV

3M™ Adhesive Sealant 730 UV

3M™ Adhesive Sealant 760 UV

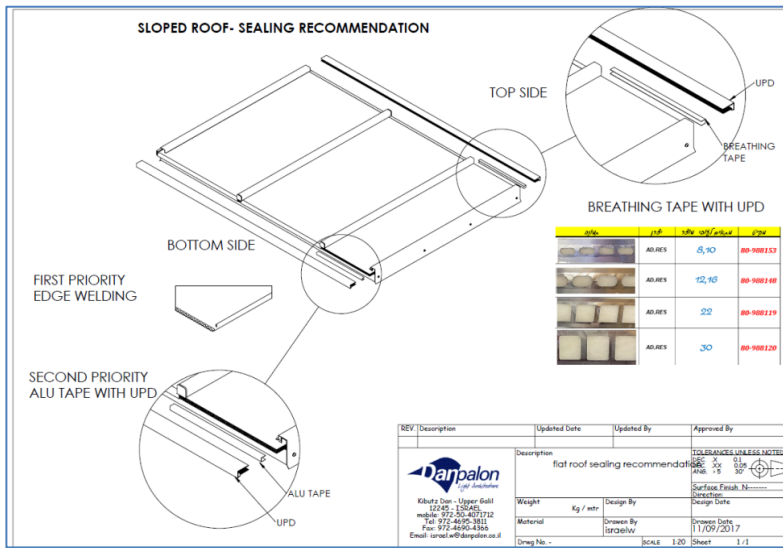


Many other sealant materials are commercially available which are compatible with Polycarbonate sheets. Manufactures should be asked about their recommendation products.

Recommendation sealing of Danpal panels

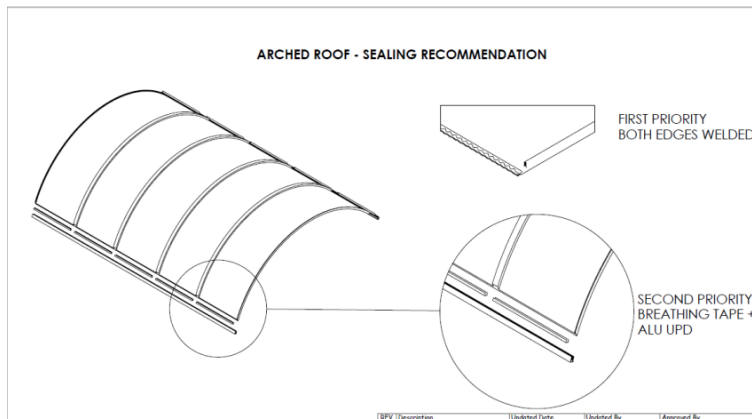
DanPal's recommendations for end of sheets closing:

- Vertical applications and sloped roof:
 - Bottom edge (end) to be welded. The upper edge (end) to be sealed with a breathing tape & covered by DanPal's Aluminum UPD.
 - In case that welding is not possible, then the second best is to seal the bottom installation with aluminium Tape and the top of the sheet with the breathing tape plus covering with DanPal's aluminum UPD.



- Arch applications:
 - Both edges welded
 - In case that welding is not possible then it is much more difficult to assure non penetration of water and or dirt into the sheet. In this case either use breathing tape + Aluminum UPD on both edges and/or just UPD without the breathing tape.

As mentioned, this way doesn't assure full protection.

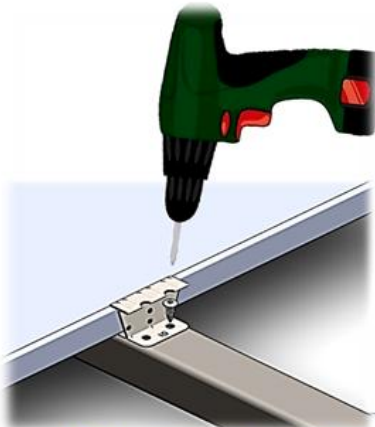
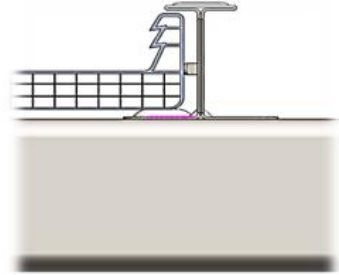
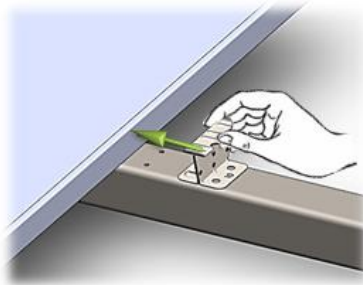


Fastener installation



Danpalon Fastener Installation

- 1.** Slide fastener to Danpalon Leg till metal bumps touches the leg.
DO NOT OVERTIGHT!

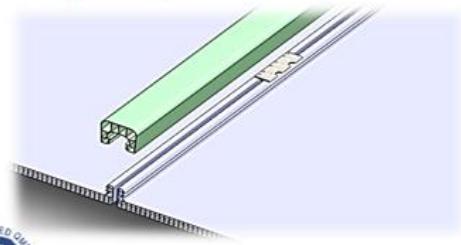


- 2.** Fasten screws in place by using bit S2-PHS

Dan Pal, Kibbutz Dan, 12245, Israel, Tel: +972 4 6953811/6 Fax: +972 4 6958105 www.danpal.com



- 3.** Slide the next Danpalon, attach connector and Continue respectively



Service temperatures of Danpalon sheets

The Service temperature of Danpalon sheets is (-40) to +120°C

Note: The temperature of the material (Danpalon sheets) has an effect on the mechanical properties.

Unloading instructions

FIRST - TAKE A PICTURE	UNLOADING ORDER ONE BY ONE	
DO NOT SCRATCH! SUPPORT!	DO NOT BEND!	DO NOT STEP!
NO MESS!	CLEAN UNDER! 1.2m max	NO DIRECT SUNLIGHT!