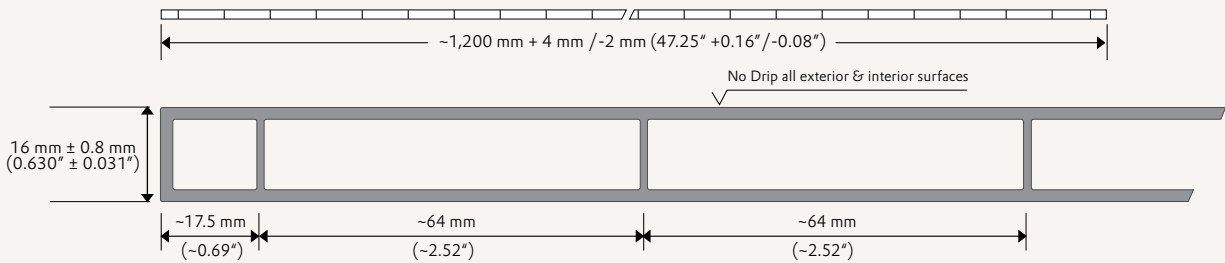


16 mm ACRYLITE® Alltop acrylic double-skin sheet



16 mm ACRYLITE® Alltop acrylic double-skin sheet is a light transmitting, heat-insulating and weather-resistant double-skinned sheet made of acrylic (polymethyl methacrylate, PMMA) polymer with particularly wide rib spacing. It was designed for commercial & institutional greenhouses where an extremely high light transmission is required.

Advantages of 16 mm ACRYLITE® Alltop UVA/UVT acrylic double-skin sheet

- ACRYLITE® Alltop has a light transmission of 91%, the 64 mm wide flute is the highest light transmitting of any insulating rigid glazing available.
- ACRYLITE® Alltop's patented no drip coating is applied on every surface, including inside the flutes. The coating allows for maximum light transmission virtually eliminating all condensation droplets on all interior and exterior surfaces of the sheet.
- Better plant growth response is driven by high light transmission and the option for ACRYLITE® Alltop in UV absorbing or UV transmitting is available.
- Up to 50% better energy savings over single layer glazings.
- Better plant growth response is driven by the light transmission and the option of ACRYLITE® Alltop UV absorbing or UV transmitting is available.

Warranties

Non-prorated, full replacement 30 year non-yellowing and 10 year light transmission warranties. For details see warranty.

Environmental Sustainability

ACRYLITE® Alltop acrylic double skin sheets' natural heat insulating qualities can translate into significant energy savings, making them an ideal choice for eco-lighting and building green. The sheets are built to last using environmentally sound manufacturing processes in facilities that have received ISO-14001 environmental certification. ACRYLITE® Alltop is environmentally friendly and can be recycled.

Technical Data (Typical values)

	Light Transmittance D65	Total Energy Transmission Values	Shading Coefficient (SC)
Clear UVA (20080) UVT (29080)	91%	82%	0.94
UV Transmission	optional		
U-value	2.5 W/m ² K (0.49 BTU/hr•ft ² •°F)		
R-value	2.04 °F/BTU•hr•ft ²		
Coefficient of Heat Expansion (α)	0.09 mm/m °C (0.00005 in/in/°F)		
Expansion Due to Heat and Moisture	6 mm/m (1/16" /ft)		
Thickness	16 mm (5/8")		
Rib Spacing	64 mm (2 1/2")		
Width	1200 mm (47 1/4")		
Length	up to 8550 mm (28 ft)		
Approximate Area Weight	4.9 Kgm ² (1 lb/ft ²)		
Weighted Sound Reduction Index	22 dB		
Maximum Service Temperature	70°C (160 °F)		
ASTM D-635 (Rate of Burn)	C2 / CC2		
ASTM D-1929 (Self Ignition Temp)	840 °F		
ASTM D-2843 (Smoke Density Rating)	2.0 %		
CAN/ULC S102.2	< 150 Flame Spread Classification		
DIN 4102	normal combustability, B2		
Values are approximate.			

No Drip

Compared to our standard No Drip double-skin sheets, which have the proven water-dispersing coating on one side only, the Alltop sheets are coated on all surfaces, including inside the flutes.

The water-dispersing coating is covered by a protective layer applied during manufacture. This is washed off by rainwater or condensation, thus activating the coating. The protective layer can also be removed with water and a sponge or by using a hose.

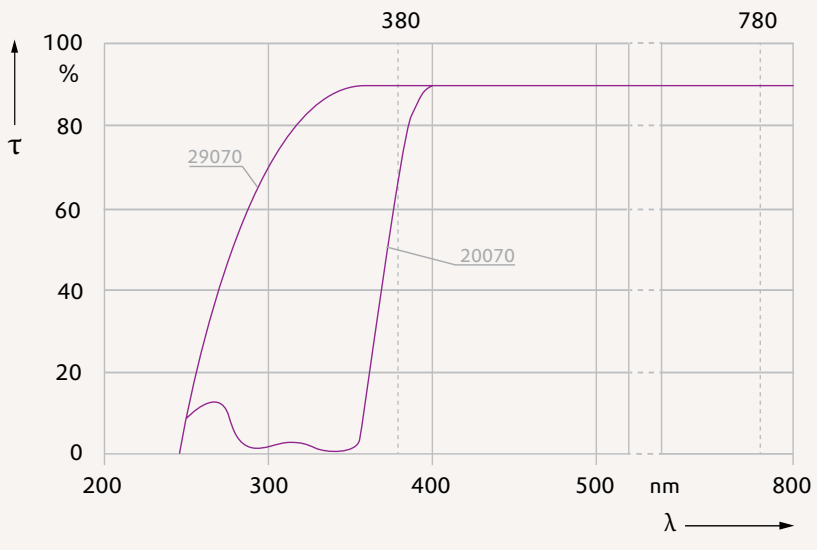
Fire Behaviour

- The fire behavior of ACRYLITE® is rated as C2 or CC2 according to ASTM D-635.
- ACRYLITE® burns almost entirely without smoke according to DIN4102 and ASTM D-2843 and is easily extinguished.
- The smoke gases produced by ACRYLITE® are neither acutely toxic according to DIN 53436 nor corrosive according to DIN VDE 0482-267.

Load Bearing Capacity

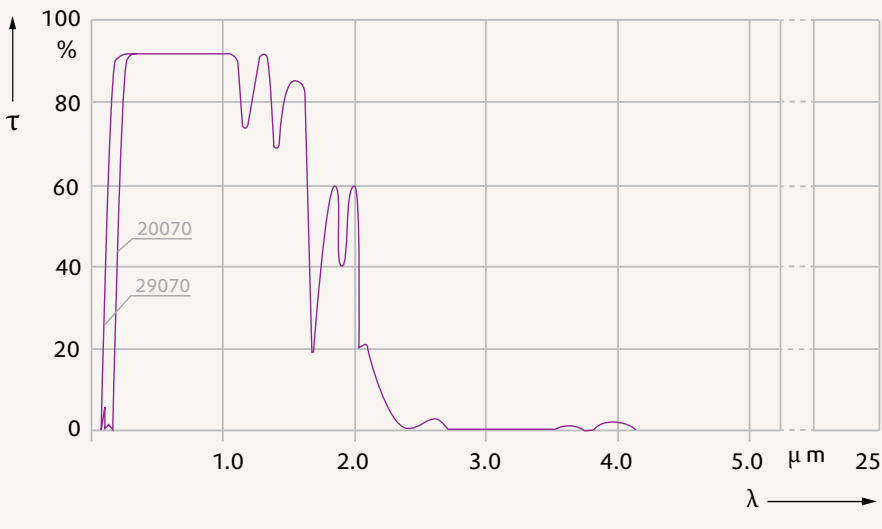
Due to its excellent rigidity, large areas can be glazed quickly and efficiently. Few intermediate supports are required to carry substantial uniformly distributed loads (refer to Support Spacing data chart). Reduction of structural members means less shading thus increasing light levels.

Light Transmission Data - ACRYLITE® Alltop acrylic double-skin sheet



Comparison of colorless ACRYLITE® Alltop acrylic double-skin sheet. (29070 is the UV-transmitting grade & 20070 the UV-absorbing grade.)

Light Transmission Data - ACRYLITE® Alltop acrylic double-skin sheet



Spectral Transmission of ACRYLITE® Alltop acrylic double-skin sheet. (Approximation only). (UV to the non-penetrating infrared wavelengths).

Support Spacing

Refer to the Support Spacing Chart for loading recommendations, however, its recommended for you to determine your local building code requirements. If the sheet is ripped and the skin is more than 15 mm ($\frac{5}{8}$ ") from a rib, an infil spacer is necessary for proper support.



Support Spacing Chart

16 mm ACRYLITE® Alltop acrylic double-skin sheet width as delivered 1200 mm (47 1/4")			
Load		Support Spacing	
[N/m2]	(lb/ft2)	[m]	(in)
750	15.7	5.1	200
1000	20.9	4.2	165
1250	26.1	3.5	137
1500	31.3	2.9	114
1750	35.5	2.5	98
2000	41.8	2.2	86
2250	47	2.0	78
2500	52.2	1.8	70
2750	57.4	1.7	67
3000	62.6	1.6	63

ACRYLITE® is a registered trademark of Evonik Cyro LLC in the Americas. These same products are manufactured and marketed under the PLEXIGLAS® trade name on the European, Asian, African and Australian continents.

Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment).

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