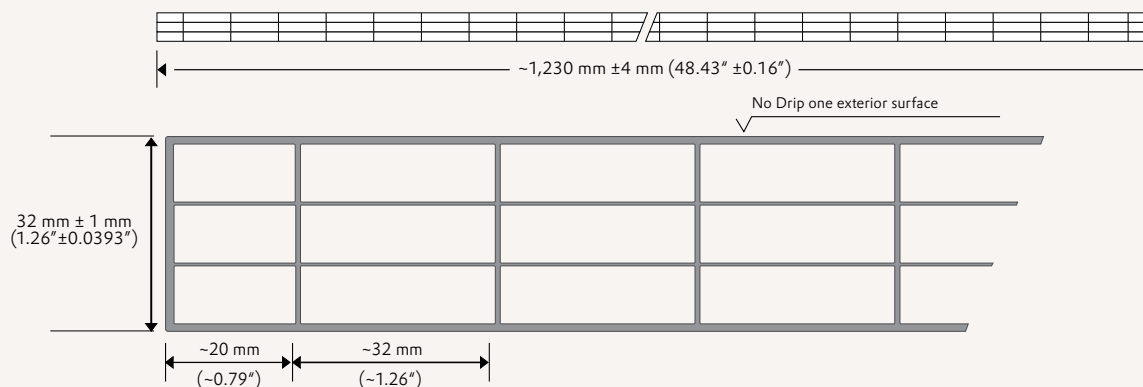


## 32 mm ACRYLITE® Resist high impact acrylic quad-skin sheet



32 mm ACRYLITE® Resist high impact acrylic quad-skin sheet is a highly heat-insulating and weather-resistant quadruple-skinned sheet made of impact-modified acrylic (polymethyl methacrylate, PMMA) polymer. It is used in industrial and commercial buildings, sports arenas as well as for private applications, wherever isolative glazing with exceptional impact resistance, hail resistance and toughness, with the added benefits of quick and easy installation, is needed.

32 mm ACRYLITE® Resist high impact acrylic quad-skin sheet is suitable for sloped and vertical applications including the following:

- |                       |                      |
|-----------------------|----------------------|
| • Canopies            | • Skylights          |
| • Carports            | • Barrel Vaults      |
| • Clerestory Glazing  | • Facades & Cladding |
| • Interior Walls      | • Greenhouses        |
| • Interior Partitions | • Pool Enclosures    |
| • Lighting Panels     | • Patio Covers       |
| • Conservatories      | • Sunrooms           |

### Advantages of 32 mm ACRYLITE® Resist high impact acrylic quad-skin sheet

- UV-resistant supported by a 30 year non yellowing guarantee
- Offers excellent protection against excessive amounts of UV radiation.
- Insulative characteristics offering up to 70% energy savings and minimizes CO<sup>2</sup> emissions.
- Hail-resistant with a 10-year guarantee for withstanding hailstones with a kinetic energy of 1 joule.
- Available with the Heatstop infrared-reflecting coating
- Impact resistance during transportation, handling and installation.
- Range of colors and solar tints including a Heatstop infrared-reflecting sheet.
- ACRYLITE® can be recycled in an environmentally friendly manner.

### Warranties

Non-prorated, full replacement 30 year non-yellowing, 10 year light transmission and 10 year hail warranties.

## Technical Data (Typical values)

	Light Transmittance D65	Total Energy Transmission Values	Shading Coefficient (SC)
Clear (00721)	76%	71%	0.79
Light White (WA012)	64%	60%	0.69
Heatstop Pearl (WA013)	40%	30%	0.34
UV Transmission	blocking		
U-value	1.6 W/m²K (0.28 BTU/hr•ft²•°F)		
R-value	3.57 °F/BTU•hr•ft²		
Coefficient of Heat Expansion (α)	0.09 mm/m °C (0.00005 in/in/°F)		
Expansion Due to Heat and Moisture	6 mm/m (3/32"ft)		
Thickness	32 mm (1 ¼")		
Rib Spacing	32 mm (1 ¼")		
Width	1230 mm (48 7/16")		
Length	up to 7340 mm (24 ft)		
Weighted Sound Reduction Index	24 dB		
Approximate Area Weight	6.4 Kg/m² (1.3 lb/ft²)		
Maximum Service Temperature	70°C (160°F)		
ASTM D-635 (Rate of Burn)	C2 / CC2		
ASTM D-1929 (Self Ignition Temp)	830°F		
ASTM D-2843 (Smoke Density Rating)	8.5%		
CAN/ULC S102.2	< 150 Flame Spread Classification		
DIN 4102	normal combustability, B2		
Values are approximate.			

## Environmental Sustainability

ACRYLITE® Resist high impact acrylic quad-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. In addition, if the time does come for replacement, ACRYLITE® is environmentally friendly and can be recycled.

### No Drip

The water-dispersing, patented No Drip coating applied on one side of the sheet causes any surface water to form a thin, continuous film. When the sheet is installed with the No Drip coating on the outside of the roof, the coating can support the natural cleaning of the roof by rainwater. When the coating is on the inside, it contributes toward

preventing any condensed water from forming drops and thus averts the damage caused by dripping.

## 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 chart). Reduction of structural members means less shading thus increasing light levels.

## Support Spacing

As flat glazing supported on all sides, 1230 mm wide 32 mm quad-skin sheet requires no additional cross members for uniformly distributed loads up to 20.9 lb/ft<sup>2</sup> (1000 N/m<sup>2</sup>). For greater loads, the recommended spacing is given in the support spacing chart. Maximum allowable spacing is in the direction parallel to the sheet's ribs. Refer to local building codes to determine the applicability of these values to specific applications. Building codes will indicate the design loads to be used to determine the maximum span lengths or support spacing.

## Support Spacing Chart

32 mm ACRYLITE® Resist high impact acrylic quad-skin sheet width as delivered 1230 mm (48 7/16")			
Load		Support Spacing	
[N/m <sup>2</sup> ]	(lb/ft <sup>2</sup> )	[m]	(in)
750	15.7	∞	∞
1000	20.9	∞	∞
1250	26.1	5.7	224
1500	31.3	4.2	165
1750	35.5	3.7	145
2000	41.8	3.3	130
2250	47	3.1	122
2500	52.2	2.9	114
2750	57.4	2.7	106
3000	62.6	2.6	102

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

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January 2013

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