



Design in a New Light

with Exceptional Light Transmitting Acrylic



Acrylite DEGLAS
ACRYLIC SHEET

High Impact Acrylic
Building Products

Evonik. Power to create.



World Leader in Acrylic Technology

ACRYLITE® High Impact Acrylic Multi-Skinned and Wave Profile sheets are the most uncompromising and advanced line of acrylic sheets for architects and designers who demand the best. Today, acrylic is everywhere around us. Whether driving your car, dining at your favorite eatery, or talking on your mobile phone, there is a good chance that you are using something made with acrylic. ACRYLITE'S appeal is in its light weight, ease of fabrication, exceptional weatherability, resistance to impact, and incredible ability to transmit light.

Architects and designers throughout the world have long admired acrylic for its versatility in endless design applications. Where light plays a key role in the spatial experience, ACRYLITE sheets offer the most freedom in imagination and design. Sophisticated, stylish and extremely versatile, ACRYLITE High Impact Acrylic Building Products help define your vision.



COVER: The façade is wrapped in translucent 16 mm ACRYLITE Double-Skinned sheets, revitalizing the Racine Art Museum in Racine, Wisconsin. Design: Brininstool + Lynch. Photo: Christopher Barrett, Hedrich Blessing;
FACING PAGE: 16 mm ACRYLITE Double-Skinned sheets opens this European office to the sky in this cathedral-inspired space. ABOVE LEFT: Bluff's Café, University of Toronto. ABOVE RIGHT: 16 mm ACRYLITE Double-Skinned sheets allow natural light transmission while providing protection for this outdoor living space.

Think of the Possibilities

Clearly Luminous

Light inspirations. Light-themed designs.

Designs come alive with ACRYLITE High Impact Acrylic Multi-Skinned and Wave Profile panels. If you're thinking light, air, space — think ACRYLITE. ACRYLITE High Impact Acrylic Building Products allow you to convey generous amounts of light with the feeling of openness, comfort and warmth. It's modern and fresh. Our light-transmitting sheets maximize light and brightness, even in dim areas. ACRYLITE'S light-filled environment expands, moves, and breathes with life.

ACRYLITE'S incredible visual clarity and clean lines come without the disadvantages of glass or other materials. With a variety of non-intrusive options, you can freely play with the role and presence of light in your design. Fashion natural illumination or dynamic visual effects, or open up dark spaces. ACRYLITE High Impact Acrylic Multi-Skinned and Wave Profile panels allow you to explore and experiment with lighting effects without the use of excessive shading or diffusing elements.



ABOVE LEFT: 3 mm ACRYLITE acrylic Wave Profile sheets create partitions while allowing an abundance of natural light at the Hamilton Health Centre in Hamilton, Ontario. ABOVE RIGHT: Personal training studio is covered with 16 mm ACRYLITE Double-Skinned sheets in the Monterey Peninsula. Design/Build: RBCO, California.



Versatile and Innovative

Limitless light. Limitless possibilities.

Wherever you want light to enliven your space, ACRYLITE High Impact Acrylic Multi-Skinned and Wave Profile offers solutions to your most challenging design requirements. Architects and designers favor ACRYLITE for expanding their designs through light, such as lightscaping, illuminated walls, backlighting, toplighting, and cosmetic detailing. Create daylighting without sacrificing privacy. ACRYLITE welcomes innovation and whether you're considering a wall or overhead use, curved or straight application, exterior or interior, there is a product that works with your vision.

Highly adaptable and stylish, ACRYLITE'S light transmitting panels are available in translucent or transparent options with a broad range of tints and surface textures.

ABOVE: ACRYLITE'S exceptional weatherability serves dual purposes at the Rotary Centennial Pond in Burlington, Ontario. The screen constructed of ACRYLITE High Impact Acrylic Double-Skinned sheets is a fine example of ACRYLITE'S versatility, acting as a protective canopy in the summer and a windbreak in the winter. Design: Baird Sampson Neuert Architects. Project: Burlington Waterfront Centre, City of Burlington. Photo: Baird Sampson Neuert Architects.



Diverse and Beautiful

Beauty and Function

Lasting light. Lasting beauty.

ACRYLITE has been designed to create beautifully bright environments, yet within the beautiful sheen and luster of these sheets, lays more inherent advantages of acrylic. ACRYLITE offers options in rigidity and flexibility, yet all sheets are highly durable and weatherable. Our multi-skinned acrylic's natural heat insulating qualities translate into significant energy savings, making it an easy choice for eco-lighting and building green.

ACRYLITE High Impact Acrylic also blocks harmful UV rays, as well as offering interiors protection from fading. Its UV resistance prevents unsightly discoloration or brittleness, ensuring longevity and integrity of your design for many years to come. Inspirations without compromise.●

ABOVE LEFT: Floor to ceiling ACRYLITE Double-Skinned Light White sheets provide privacy from exterior windows, transmission of natural light and a safety barrier for the interior stairwell. Design: Simmer Design + Project Management. Photo: Brenda Liu. ABOVE RIGHT and FACING PAGE: Fashion designer Elie Tahari chose 8 mm ACRYLITE Double-Skinned Light White Manhattan Satin sheets to provide diffused light transmission with a no glare, no reflection surface for his New York City design studio. Design: Highland Associates. Photo: Adrian Wilson.





The Best Warranty in the Business

No Yellowing

Unlike other synthetic polymers that visibly yellow over time, ACRYLITE acrylic does not. Even after 30 years, the absolute yellowness indices for ACRYLITE are among the lowest possible for plastics. Ask us for details and a copy of our 30 year guarantee against yellowing.

Impact Resistant

ACRYLITE High Impact Acrylic Building Products are so durable we back them with a 10 year non-prorated hail warranty. Visit our website to download a copy.

Eco-Friendly

ACRYLITE High Impact Acrylic Building Products help contribute to a healthier environment through:

- reduced energy use
- reduced emissions
- environmentally sound manufacturing processes
- certified facilities—DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)
- elimination of harmful chemicals
- long service life means diversion of old glazing from landfill sites
- if you must replace ACRYLITE, it is recyclable for use in the manufacture of consumer goods



FACING PAGE: Vertical installation of ACRYLITE Double-Skinned sheets provides privacy from exterior windows, transmission of natural light and a safety barrier for the interior stairwell. Design: Simmer Design + Project Management. Photo: Brenda Liu. ABOVE LEFT: A sense of work and play welcomes clients in the ACRYLITE enclosed conference room of creative agency, Grip Limited in Toronto. Architect Johnson Chou explored the use of light with acrylic's translucence and natural sheen in this sophisticated workspace. Design: Johnson Chou Inc. Client: Grip Limited. Photo: Volker Seding. ABOVE CENTER: The Contemporary Museum, Baltimore, Maryland. ABOVE RIGHT: ACRYLITE panels are featured as interior bathroom walls, W Hotel, New York Times Square.



LEFT: Hoodoo Series lamp hangs chandelier-style in Calgary, Alberta's Ristorante Pulcinella. The designers chose 16 mm ACRYLITE Double-Skinned sheets for their superior light transmission, surface sheen and rigidity. Design: Greg Ball and Shoko Cesar. FACING PAGE: Timber construction and 16 mm ACRYLITE Double-Skinned White sheets are featured in this chalet-style roof. Design/Build: Natural Light Patio Covers.

ACRYLITE® High Impact Acrylic

Multi-Skinned and Wave Profile Sheets

For decades Evonik, the makers of ACRYLITE High Impact Acrylic, has offered the highest quality acrylic products and services to the interior design and architectural construction industries. ACRYLITE Multi-Skinned and Wave Profile sheets are widely used in design and construction of commercial, institutional, industrial and residential buildings throughout the world.



8 mm ACRYLITE High Impact Acrylic

DOUBLE-SKINNED SHEET (Thickness: 5/16" • Rib Spacing: 5/8")

Available in:

- Clear, 84%
- Light White, 62%
- Light White Manhattan Satin, 60%

(Percentage indicates approximate Light Transmission.)

Ideal for achieving high level of privacy without blocking out light.

- Close rib design
- Thin and lightweight
- Can be point fastened
- Cold-formable
- Quick and easy installation



16 mm ACRYLITE High Impact Acrylic

DOUBLE-SKINNED SHEET (Thickness: 5/8" • Rib Spacing: 1 1/4")

Available in:

- Clear, 86%
- Bronze, 53%
- Light White, 74%
- Solar Cool White, 37%
- HEATSTOP® Pearl, 50%
- HEATSTOP® Cool Blue, 28%

(Percentage indicates approximate Light Transmission.)

Our most multipurpose product, designed for overhead use and creating light walls.

- Increased rigidity
- High load carrying capabilities
- Adaptable to range of roof pitches
- Widest selection of colors
- Weather-tight systems available*



Clear

16 mm ACRYLITE HIGHLUX High Impact Acrylic

DOUBLE-SKINNED SHEET

(Thickness: 5/8" • Rib Spacing: 3 3/4")

Available in: • Clear, 87%

(Percentage indicates approximate Light Transmission.)

Our most optically clear and technologically advanced double-skinned sheet. The best choice where maximum light and clarity is needed.

- Triple-wide rib spacing
- Ideal for vertical applications
- Weather-tight systems available*
- Expansive, unobstructed views
- Strong and rigid

Clear

Light White

HEATSTOP® Pearl

32 mm ACRYLITE High Impact Acrylic

QUAD-SKINNED SHEET

(Thickness: 1 1/4" • Rib Spacing: 1 1/4")

Available in: • Clear, 76%

• Light White, 64%

• HEATSTOP® Pearl, 40%

(Percentage indicates approximate Light Transmission.)

Our most rigid and insulating sheet. Made to withstand extreme weather conditions.

- Insulative values equal to four panes of glass
- Requires fewer supports
- Great strength to weight ratio
- High load carrying capabilities
- Weather-tight systems available*



3 mm ACRYLITE High Impact Acrylic Wave Profile (Thickness: 1/8")

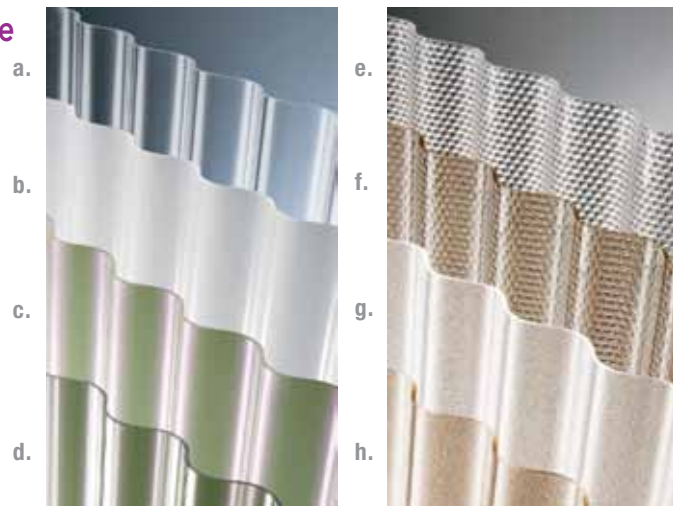
Available in:

a. Smooth Clear, 90%	e. Prismatic Clear, 81%
b. Smooth White, 72%	f. Prismatic Bronze, 55%
c. HEATSTOP® Pearl, 45%	g. Textured Clear, 88%
d. HEATSTOP® Grey, 47%	h. Textured Bronze, 75%

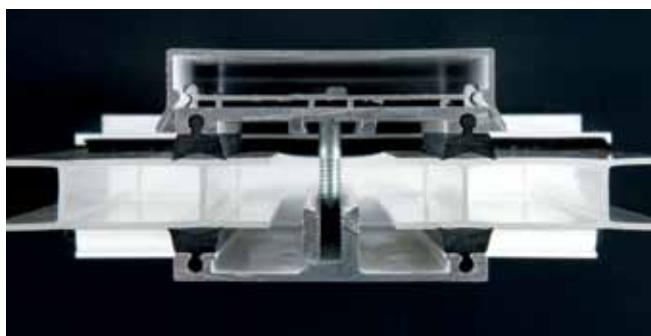
(Percentage indicates approximate Light Transmission.)

Tough and versatile single-skinned sheet, designed for great style and protection.

- Distinct, stylish appearance
- Quick and easy install
- Best for overhead and vertical use
- Can be point fastened
- Special weatherseal calottes and fasteners available



Assembly System



Evonik offers an assembly system specifically designed for use with ACRYLITE Multi-Skinned acrylic sheets.

This gasketed system allows for the natural thermal expansion of acrylic without constriction or compromising the seal. Easily adaptable to your design requirements, this system is an excellent choice for projects that need to be weather tight. Consult with an Evonik representative on your project's design, function, and requirements for help in selecting an appropriate assembly system.



Kiosk at Toronto's Harbourfront Centre utilizes Evonik's assembly system designed for use with ACRYLITE Multi-Skinned sheets.

ACRYLITE® High Impact Acrylic Multi-Skinned and Wave Profile Sheets

	DOUBLE-SKINNED SHEET			QUAD-SKINNED SHEET	WAVE
	8 mm	16 mm	HIGHLUX	32 mm	3 mm
RIB SPACING** (inches • millimeters)	5/8" • 16 mm	1 1/4" • 32 mm	3 3/4" • 96 mm	1 1/4" • 32 mm	NA
THICKNESS** (inches • millimeters)	5/16" • 8 mm	5/8" • 16 mm	5/8" • 16 mm	1 1/4" • 32 mm	1/8" • 3 mm
WIDTH** (inches • millimeters)	47 1/4" • 1200 mm	47 1/4" • 1200 mm	47 1/4" • 1200 mm	48 3/8" • 1230 mm	41" • 1045 mm
LENGTH (feet • meters)	up to 20'	up to 20'	up to 20'	up to 20'	up to 16'
PERIMETER CLAMP	YES	YES	YES	YES	NO
POINT FASTEN	YES	NO	NO	NO	YES
COLD BENDING***	YES	YES	YES	NO	NO
EXPANSION CONTRACTION RATE	5/64 in./ft	5/64 in./ft	5/64 in./ft	3/32 in./ft	5/64 in./ft
APPROXIMATE AREA WEIGHT	0.7 lb/ft ²	0.9 lb/ft ²	0.9 lb/ft ²	1.3 lb/ft ²	0.8 lb/ft ²
LIGHT TRANSMITTANCE*	62% to 84%*	50% to 86%*	87%	64% to 76%*	45% to 90%*
UV BLOCKING	YES	YES	YES	YES	YES
YELLOWING	NO	NO	NO	NO	NO
PATENTED NO DRIP	ONE SURFACE	ONE SURFACE	ONE SURFACE	ONE SURFACE	NO
ENERGY VALUES					
R-VALUE (°F/BTU•hr•ft ²)	1.78	2.04	2.04	3.57	0.91
U-VALUE (BTU/hr•ft ² •°F)	0.56	0.49	0.49	0.28	1.10
ENERGY SAVINGS VS. SINGLE GLASS	40%	50%	50%	70%	0%
FLAMMABILITY					
ASTM D-635	CC2 or C2	CC2 or C2	CC2 or C2	CC2 or C2	CC2 or C2
CAN/ULC-S102.2	LESS THAN 150	LESS THAN 150	LESS THAN 150	LESS THAN 150	LESS THAN 150
SELF-IGNITION TEMPERATURE	830°F	830°F	830°F	830°F	830°F
SMOKE DENSITY RATING	8.1%	7.0%	7.0%	8.5%	7.1%
MAXIMUM SERVICE TEMPERATURE	160°F	160°F	160°F	160°F	160°F
LIMITED WARRANTY					
LIGHT TRANSMISSION WARRANTY	10 YEARS	10 YEARS	10 YEARS	10 YEARS	10 YEARS
GUARANTEED MINIMUM LIGHT TRANSMITTANCE (CLEAR)	79%	79%	80%	68%	84%
HAIL WARRANTY	YES	YES	YES	YES†	YES†
PRO-RATED WARRANTY	NO	NO	NO	NO	NO

* Light Transmittance dependent upon product color. Refer to pages 9 and 10 for details. **Nominal dimensions.

***Check with manufacturer for recommended minimum radius. †Except HEATSTOP®.

LOAD CHARTS										
(lb/ft ²)	15	20	25	30	35	40	45	50	55	60
SHEET TYPE	SUPPORT SPACING REQUIRED									
8 mm Acrylite DOUBLE-SKINNED	106"	86"	75"	67"	63"	60"				
16 mm Acrylite DOUBLE-SKINNED	193"	157"	135"	116"	102"	91"	83"	75"	71"	69"
HIGHLUX Acrylite DOUBLE-SKINNED	150"	122"	105"	90"	80"	71"	65"	59"	55"	53"
32 mm Acrylite QUAD-SKINNED	not required	not required	154"	146"	137"	122"	96"	82"	76"	72"
3 mm Acrylite WAVE	40"	30"	26"	23"	18"	14"				
Note: Maximum support spacing is measured in the direction parallel to the sheet's ribs.										



16 mm ACRYLITE High Impact Acrylic Double-Skinned sheets provide a warm glow to the façade of the Waukesha Public Library, Waukesha, Wisconsin. Architect: Frye Gillan Molinaro Architects, Chicago Illinois System Designer and Installer: AFX, a division of Sign Effectz, Inc., Milwaukee, WI.

Acrylite **DEGLAS**
ACRYLIC SHEET

**Visit www.acrylitebuildingproducts.com or call 1-888-233-4527
for more information and to request samples.**



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