

design in a new light

WITH EXCEPTIONAL LIGHT TRANSMITTING ACRYLIC



DEGLAS®

HIGH IMPACT ACRYLIC GLAZING

D ☀️ LIGHT ☀️ FULL ☀️ ENVIRONMENTS

www.deglasamericas.com





World IN ACRYLIC TECHNOLOGY Leader

DEGLAS® High Impact Acrylic is 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. Acrylic'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, DEGLAS acrylic offers the most freedom in imagination and design. Sophisticated, stylish and extremely versatile, DEGLAS acrylic helps define your vision.

CLEARLY LUMINOUS

Designs come alive with DEGLAS. If you're thinking light, air, space — think DEGLAS. DEGLAS acrylic allows you to convey generous amounts of light with the feeling of openness, comfort and warmth. It's modern and fresh. DEGLAS maximizes light and brightness, even in dim areas. A DEGLAS light-filled environment expands, moves, and breathes with life.

DEGLAS' incredible visual clarity and clean lines come without the downsides of glass or other materials. With a variety of non-intrusive DEGLAS 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. DEGLAS allows you to explore and experiment with lighting effects without the use of excessive shading or diffusing elements.

LIGHT INSPIRATIONS. LIGHT-THEMED DESIGNS.

LEFT: DEGLAS opens this European office to the sky in this cathedral-inspired space.



think of the possibilities

ABOVE: A sense of work and play welcomes clients in the DEGLAS-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

VERSATILE AND INNOVATIVE

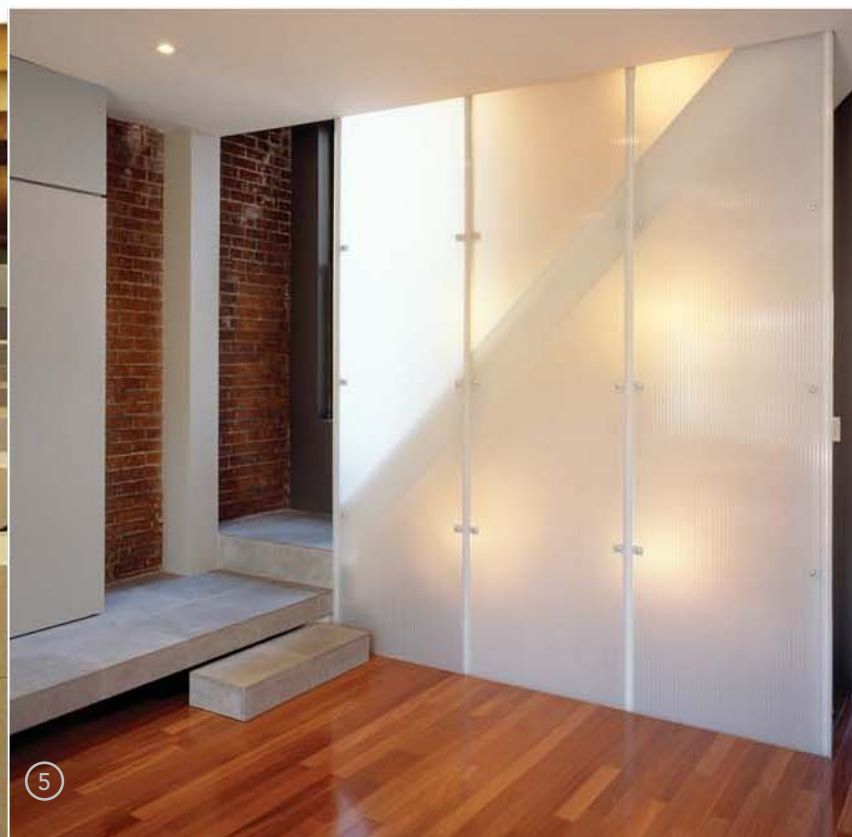
Wherever you want light to enliven your space, DEGLAS offers solutions to your most challenging design requirements. Architects and designers favor DEGLAS for expanding their designs through light, such as lightscaping, illuminated walls, backlighting, toplighting, and cosmetic detailing. Create daylighting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

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

LIMITLESS LIGHT. LIMITLESS POSSIBILITIES.

BOTTOM LEFT: DEGLAS acrylic panels create partitions and lots of natural light at the Hamilton Health Centre in Hamilton, Ontario.

BOTTOM RIGHT: DEGLAS creates a vertical divide in this private Toronto rowhouse renovation, designed by Simmer Design. Photo: Brenda Liu/A-Frame Inc.





BEAUTY AND FUNCTION

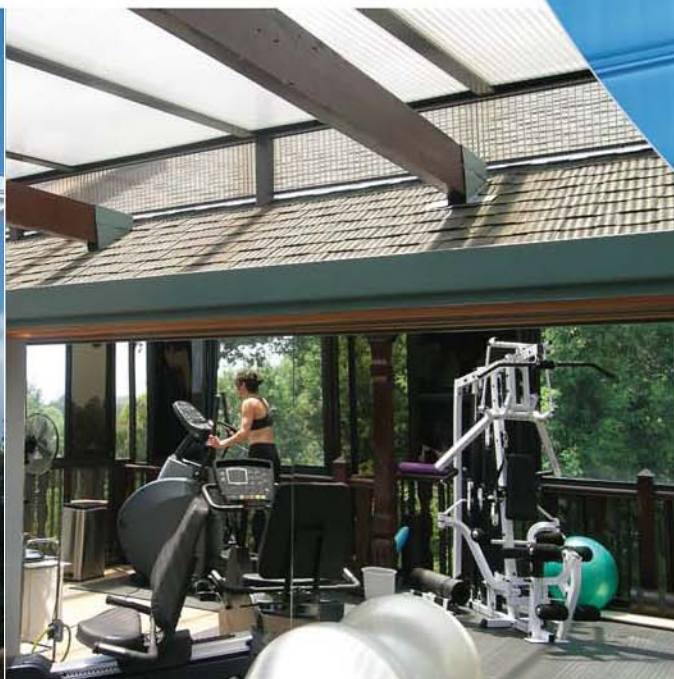
DEGLAS has been designed to create beautifully bright environments, yet within the beautiful sheen and luster of DEGLAS, lays all the inherent advantages of acrylic. DEGLAS offers options in rigidity and flexibility, yet all sheets are highly durable and weatherable. DEGLAS acrylic's natural heat insulating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

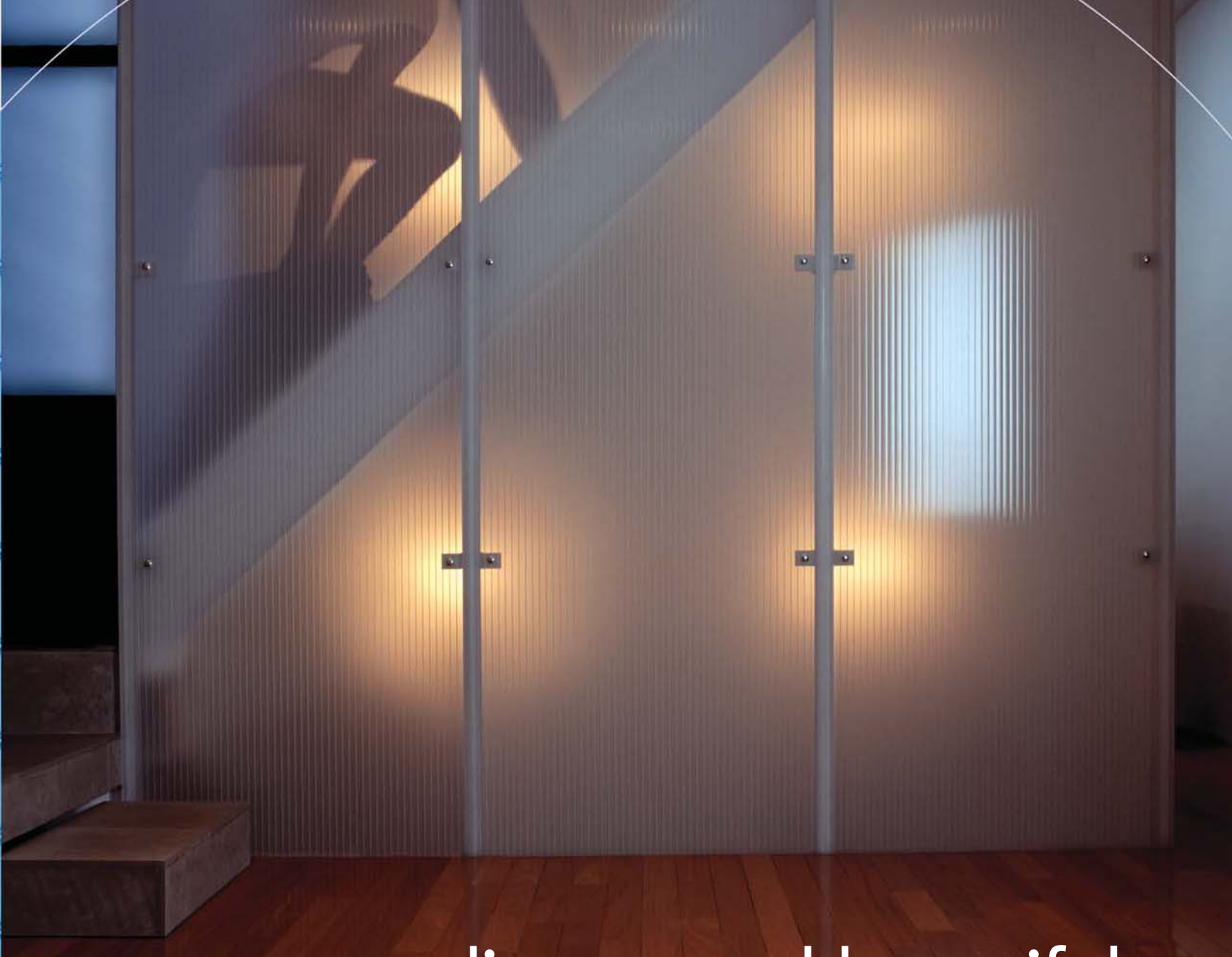
DEGLAS also blocks harmful UV rays, as well as offering interiors protection from fading. Its UV resistance prevents unsightly discoloration or brittleness, ensuring longevity and integrity of your design for many years to come. Inspirations without compromise.

LASTING LIGHT. LASTING BEAUTY.

CLOCKWISE FROM TOP RIGHT: Bluff's Café, University of Toronto;

Personal training studio, California; Harbourfront Centre kiosk, Toronto.





diverse and beautiful

ABOVE: A backlit DEGLAS panel sets the stage for a dramatic transformation of this urban dwelling. The translucent screen wall runs alongside the stairs leading to the upper levels of this three-story residence in Toronto.

Design: Simmer Design. Photo: Brenda Liu/A-Frame Inc.





DEGLAS high impact acrylics

ABOVE: DEGLAS' exceptional weatherability serves dual purposes at the Rotary Centennial Pond in Burlington, Ontario. The acrylic screen is a fine example of DEGLAS' versatility, acting as a protective canopy in the summer and a windbreak in the winter. Design: Baird Sampson Neuert Architects Inc. Project: Burlington Waterfront Centre, City of Burlington Photo: Tom Arban

For decades Degussa CYRO, the makers of DEGLAS High Impact Acrylic, has offered the highest quality acrylic products and services to the interior design and architectural construction industries. DEGLAS High Impact Acrylic is widely used in design and construction of commercial, institutional, industrial and residential buildings throughout the world.



8 mm DEGLAS High Impact Acrylic

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

Available in: • **Clear, 84%**
 • **Light White, 62%**
(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



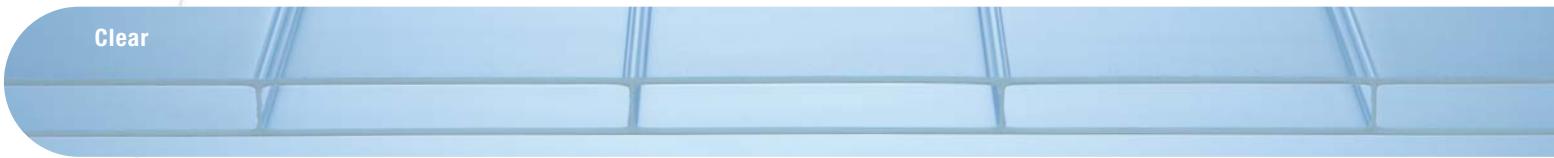
16 mm DEGLAS High Impact Acrylic

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

Available in: • **Clear, 86%** • **Solar Cool White, 37%**
 • **Bronze, 53%** • **HEATSTOP® Pearl, 50%**
 • **Light White, 74%**
(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*



16 mm DEGLAS 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



32 mm DEGLAS 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
- Weather-tight systems available*
- High load carrying capabilities

*See next page for DEGLAS assembly systems.

3 mm DEGLAS High Impact Acrylic Wave Profile (Thickness: 1/8" • Rib Spacing: none)

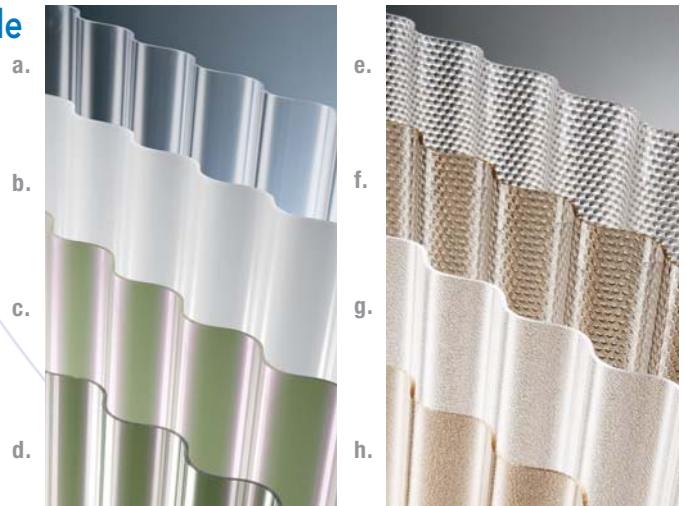
Available in:

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



ALSO AVAILABLE:

1.5 mm DEGLAS High Impact Acrylic Corrugated (Thickness: 1/16" • Rib Spacing: none)

Available in: • Clear, 90%

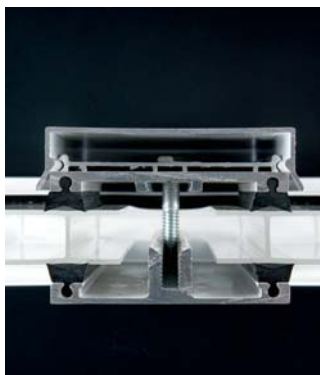
(Percentage indicates approximate Light Transmission.)

Corrugated 1/16" single-skinned sheets are twice as thick as conventional corrugated materials. It is quick to install and requires nearly half the number of fasteners. Stock lengths are available up to 24 feet.

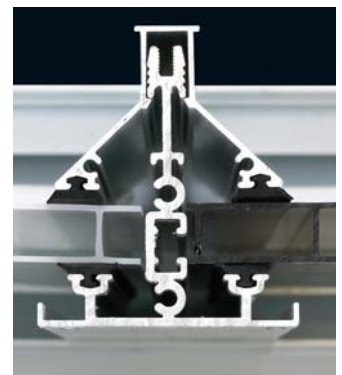
AVAILABLE ASSEMBLY SYSTEMS

Degussa CYRO offers assembly systems specifically designed for use with DEGLAS multi-skinned acrylic sheets. Each gasketed system allows for the natural thermal expansion of acrylic without constriction or compromising the seal. Easily adaptable to your design requirements, these systems are an excellent choice for projects that need to be weather tight.

Consult with a Degussa CYRO representative on your project's design, function, and requirements for help in selecting an appropriate assembly system.



DEGLAS Assembly System (DAS)



DEGLAS Patio System (DPS)

HIGH IMPACT DEGLAS® ACRYLIC

HIGH IMPACT DEGLAS® ACRYLIC SELECTION CHART

	DOUBLE-SKINNED SHEET			QUAD-SKINNED SHEET	WAVE	CORRUGATED
	8 mm	16 mm	HIGHLUX	32 mm	3 mm	1.5 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	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	1/16" • 1.5 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	41" • 1045 mm
LENGTH (feet • meters)	up to 20'	up to 20'	up to 20'	up to 20'	up to 16'	up to 20'
PERIMETER CLAMP	YES	YES	YES	YES	NO	NO
POINT FASTEN	YES	NO	NO	NO	YES	YES
COLD BENDING***	YES	YES	YES	NO	NO	YES
EXPANSION CONTRACTION RATE	5/64 in./ft	5/64 in./ft	5/64 in./ft	3/32 in./ft	5/64 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	0.4 lb/ft ²
LIGHT TRANSMITTANCE*	62% to 84%*	50% to 86%*	87%	64% to 76%*	45% to 90%*	64% to 76%*
UV BLOCKING	YES	YES	YES	YES	YES	YES
YELLOWING	NO	NO	NO	NO	NO	NO
PATENTED NO DRIP	ONE SURFACE	ONE SURFACE	ONE SURFACE	ONE SURFACE	NO	ONE SURFACE
ENERGY VALUES						
R-VALUE (°F/BTU•hr•ft ²)	1.78	2.04	2.04	3.57	0.91	0.88
U-VALUE (BTU/hr•ft ² •°F)	0.56	0.49	0.49	0.28	1.10	1.13
ENERGY SAVINGS VS. SINGLE GLASS	40%	50%	50%	70%	0%	0%
FLAMMABILITY						
ASTM D-635	CC2 or C2	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	LESS THAN 150
SELF-IGNITION TEMPERATURE	830°F	830°F	830°F	830°F	830°F	830°F
SMOKE DENSITY RATING	8.1%	7.0%	7.0%	8.5%	7.1%	7.2%
MAXIMUM SERVICE TEMPERATURE	160°F	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	10 YEARS
GUARANTEED MINIMUM LIGHT TRANSMITTANCE (CLEAR)	79%	79%	80%	68%	84%	84%
HAIL WARRANTY	YES	YES	YES	YES [†]	YES [†]	YES
PRO-RATED WARRANTY	NO	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 DEGLAS DOUBLE-SKINNED	106"	86"	75"	67"	63"	60"				
16 mm DEGLAS DOUBLE-SKINNED	193"	157"	135"	116"	102"	91"	83"	75"	71"	69"
HIGHLUX DEGLAS DOUBLE-SKINNED	150"	122"	105"	90"	80"	71"	65"	59"	55"	53"
32 mm DEGLAS QUAD-SKINNED	not required	not required	154"	146"	137"	122"	96"	82"	76"	72"
3 mm DEGLAS WAVE	40"	30"	26"	23"	18"	14"				

Note: Maximum support spacing is measured in the direction parallel to the sheet's ribs.

CLOCKWISE FROM RIGHT: W Hotel, New York Times Square; Private European residence; The Contemporary Museum, Baltimore, Maryland.
COVER IMAGE: The façade is wrapped in translucent DEGLAS panels, revitalizing the Racine Art Museum in Racine, Wisconsin. Design: Brininstool + Lynch
Photo: Christopher Barrett, Hedrich Blessing



DEGLAS[®]
HIGH IMPACT ACRYLIC GLAZING

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