

# The world leader in acrylic technology

With nearly 40 years experience in the greenhouse construction industry, there is no question that DEGLAS High Impact acrylic sheets are the best choice for your greenhouse operation.

In the late 60s, Röhm, the world leader in acrylic technology, began developing a sheet product especially for the greenhouse industry.

By the 70s, the first large commercial greenhouses were being covered with this new, UV stable light transmitting insulated sheet, and by 1982, 20 million sq.ft. of acrylic double-skinned sheet had been incorporated into commercial greenhouses around the world.

In 1999, Röhm developed a polymer, which enabled the product to withstand impact from falling objects and job site mishaps. With this new capability, and

backed by a hail warranty, the industry's highest performing glazing product will outlast the competitors in even the most extreme climates and challenging growing conditions.

Today, there are more than 75 million sq.ft. of DEGLAS acrylic sheets installed in commercial, retail, research and institutional greenhouses around the world.

A greenhouse built with DEGLAS acrylic glazing will pay for itself many times over. In addition to lower long-term costs than a glass greenhouse, you will see significant savings on your heating bill.

*"Our first installation of DEGLAS acrylic was in 1979, when we were looking for a more energy efficient, but high light and long lasting replacement for glass. 500,000 square feet of additional acrylic later, and we're still pleased with our initial decision."*

— Pat Etzel, LEN BUSCH ROSES



## We cover the world's leading growers

American Color, Orange, VA  
 Bachman's, Minnesota, MN  
 Barcelo Enterprises, Salinas, CA  
 BASF Research, Triangle Park, NC  
 Becks Hybrids, Atlanta, IN  
 Bergen's Wholesale Florist, Detroit Lake, MN  
 Bordines Nursery, Clarkston, MI  
 Burgett, Animas, NM  
 Color Point, Paris, KY  
 Colorado Gold, Denver, CO  
 De Jong Greenhouses, Pella, IA  
 Dillion Floral, Bloomsburg, PA  
 Four Star, Carlton, MI  
 Forth Floral, Rhinelander, WI  
 Green Barn, Minneapolis, MN  
 Green Circle Growers, Oberlin, OH  
 Green Giant, LeSueur, MN  
 Heartland Growers, Westfield, IN  
 Hollandia Produce, Carpinteria, CA  
 Johnsen Nurseries, Watsonville, CA  
 Jordans Greenhouse, Fort Collins, CO  
 Karthaus & Sons, Germantown, WI  
 Kityama, Watsonville, CA  
 Len Busch Roses, Plymouth, MN  
 Metcalfe Wholesale, Hopkinsville, KY  
 Metrolina Greenhouses, Huntersville, NC  
 Mid American Growers, Granville, IL  
 Nathe's 101 Market, Otsego, MN  
 New Vision Orchids, Yorkton, IN  
 Newlands Flowers, Leamington, Ont  
 Novartis Seed, Stanton, MN  
 Pajaro Greenhouses, Watsonville, CA  
 Peter Bulk, Thorold, Ont  
 Pioneer Hi Bred, Arlington, WI, Connell, WA and Johnston, IA  
 Powell's Plant Farms, Troup, TX  
 Raker & Sons, Litchfield, MI  
 Redcliffe Greenhouses, Redcliffe, Alb  
 Rosa Flora, Dunnville, Ont  
 Schaeffer Greenhouses, Montgomery, IL  
 Scott's, Marysville, OH  
 South Central Growers, Springfield, TN  
 Syngenta Research, Triangle Park, NC and Vero Beach, FL  
 Texas A & M, College Station, TX  
 University of Arizona, Tuscon, AZ  
 University of Minnesota, St. Paul, MN  
 University of Missouri, Columbus, MO  
 USDA Agricultural Research, Gainesville, FL, Geneva, NY and Ithaca, NY  
 USDA Bioscience Research, Fargo, ND  
 USDA Peanut Greenhouse, Griffin, GA  
 USDA Sub Tropical Research, Weslaco, TX  
 Van Vugt Greenhouses, Pompton Plains, NJ  
 Van Wingerden Greenhouses, Pompton Plains, NJ  
 Verkade Greenhouse, Grimsby, Ont  
 Villacanal Farms, Ruthven, Ont  
 Young's Plant Farm, Auburn, AL  
 Wagner's Greenhouses, Minneapolis, MN  
 Washington University, St. Louis, MO  
 Westbrook Plant 2, Beamsville, Ont  
 Wierenga Greenhouses, Fenwick, Ont

DEGLAS SELECTION CHART				
	ALLTOP® STANDARD DOUBLE-SKINNED ACRYLIC	HIGH IMPACT DOUBLE-SKINNED ACRYLIC		
		16 mm	HIGHLUX	8 mm
LIGHT TRANSMITTANCE	91%	86%	87%	84%
TYPICAL TRANSMITTANCE AFTER 10 YEARS	88%	83%	84%	81%
UV BLOCKING	OPTIONAL	YES	YES	YES
YELLOWING	NO	NO	NO	NO
PATENTED NO DRIP®	ALL SURFACES	ONE SURFACE	ONE SURFACE	ONE SURFACE
ENERGY VALUES				
R-VALUE	2.04	2.04	2.04	1.78
U-VALUE	0.49	0.49	0.49	0.56
ENERGY SAVINGS VS. SINGLE GLASS	50%	50%	50%	40%
WARRANTY				
LIGHT TRANSMISSION WARRANTY	10 YEARS	10 YEARS	10 YEARS	10 YEARS
GUARANTEED MINIMUM LIGHT TRANSMITTANCE	85%	80%	81%	79%
HAIL WARRANTY	NO	YES	YES	YES
PRO-RATED WARRANTY	NO	NO	NO	NO
RIB SPACING	2 1/2"	1 1/4"	3 3/4"	5/8"
THICKNESS	5/8"	5/8"	5/8"	5/16"
WIDTH	47.25"	47.25"	47.25"	47.25"
LENGTH	UP TO 36"	UP TO 36"	UP TO 36"	UP TO 36"
PERIMETER CLAMP	YES	YES	YES	YES
POINT FASTEN	NO	NO	NO	YES
COLD BENDING	NO	YES	YES	YES
EXPANSION CONTRACTION RATE	1/16 in./ft	5/64 in./ft	5/64 in./ft	5/64 in./ft
APPROXIMATE AREA WEIGHT	1 lb/ft²	0.9 lb/ft²	0.9 lb/ft²	0.7 lb/ft²
FLAMMABILITY				
ASTM D-635	CC 2 or C2	CC 2 or C2	CC 2 or C2	CC 2 or C2
CA/ULC-S102.2	LESS THAN 150	LESS THAN 150	LESS THAN 150	LESS THAN 150
SELF-IGNITION TEMPERATURE	840°F	830°F	830°F	830°F
SMOKE DENSITY RATING	2.0%	7.0%	7.0%	8.1%
MAXIMUM SERVICE TEMPERATURE	160°F	160°F	160°F	160°F

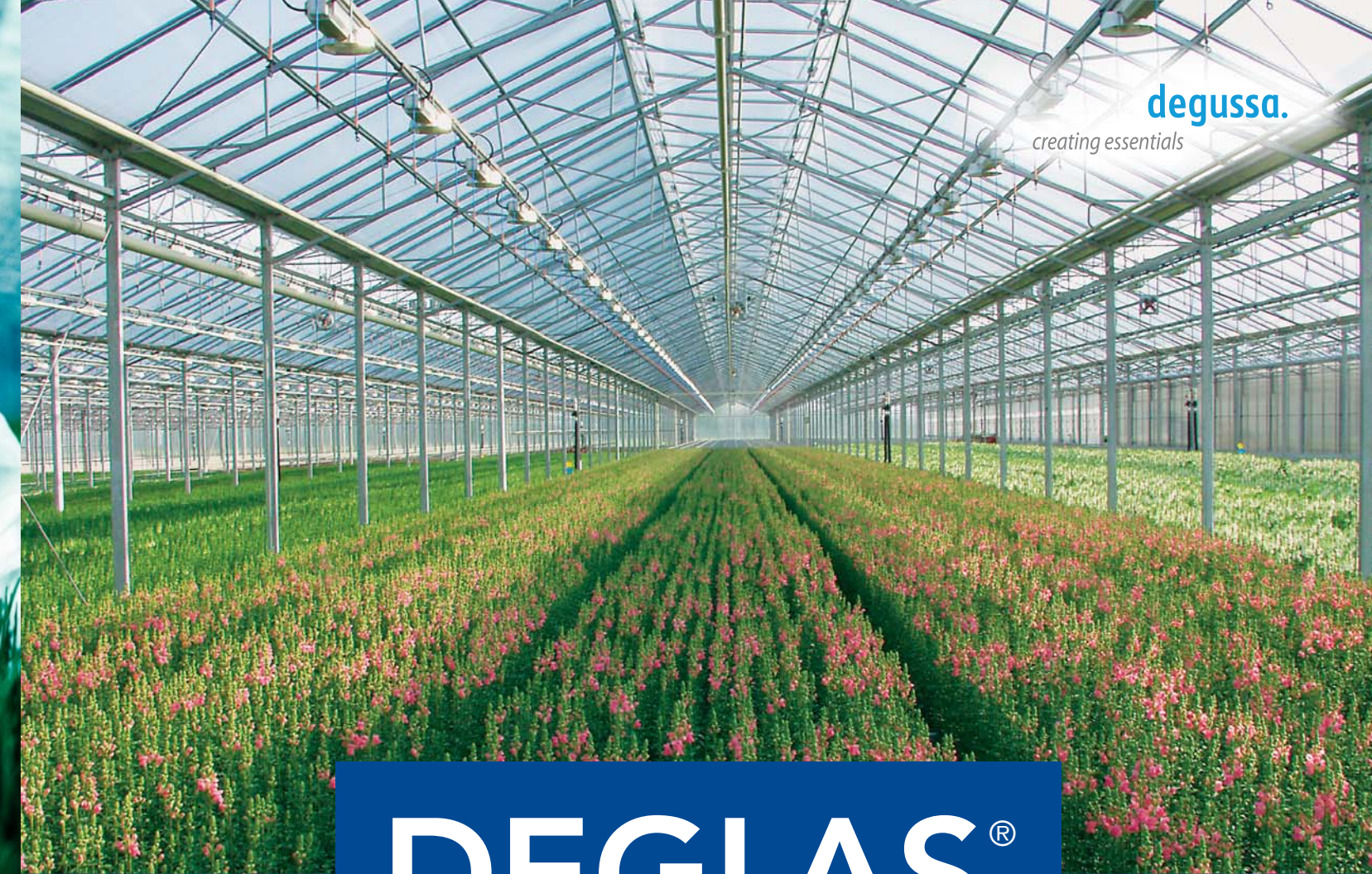
Our technical advice on the applications of our products is given without obligation. The buyer is responsible for their use and processing, and is also liable for observing any third-party rights. Technical data concerning our products are typical values. Subject to alteration. Please ask for our guarantee leaflet for further details.

DEGLAS®, HEATSTOP® are registered trademarks of Röhm GmbH & Co. KG. NO DRIP® and ALLTOP® are registered trademarks of CYRO Industries, Rockaway, (NJ), USA used under license. Printed in Canada 06/2007



☀️ LIGHT ☀️ FULL ☀️ ENVIRONMENTS

1-888-2DEGLAS  
[www.deglasamericas.com](http://www.deglasamericas.com)



degussa.  
 creating essentials

**DEGLAS®**  
 HIGH IMPACT ACRYLIC GLAZING

☀️ LIGHT ☀️ FULL ☀️ ENVIRONMENTS

COMMERCIAL GREENHOUSES  
 RESEARCH FACILITIES  
 INSTITUTIONAL GREENHOUSES  
 RETAIL GARDEN CENTERS

[www.deglasamericas.com](http://www.deglasamericas.com)



From the far north to the deep south. From tender seedlings and finicky exotics to hardy bedding plants and hydroponic vegetables. No matter where your operation is located or what you are cultivating, controlling the growing environment is critical to your bottom line. DEGLAS® High Impact Double-Skinned acrylic has been engineered to deliver performance advantages that translate into improved business performance. No wonder DEGLAS has been the glazing of choice for many of the world's leading greenhouse growers for nearly forty years.

**DEGLAS**<sup>®</sup>  
HIGH IMPACT ACRYLIC GLAZING



## Superior performance advantages now and for years to come

Some of the world's best-known and respected commercial and retail greenhouses, institutional and research facilities have invested in DEGLAS.

Controlling and optimizing growing conditions are crucial to the success of every greenhouse operation. The unique properties of our acrylic sheets deliver performance advantages that are far superior to other glazing products, providing both immediate and long-term crop performance and economic results that have become the hallmark of DEGLAS.



### High light transmission for optimum growth response

DEGLAS acrylic transmits up to 91% of the photosynthetic range (PAR). The exceptional clarity of DEGLAS provides the most natural growing conditions and promotes vigorous growth and vibrant bloom colour — characteristics that you and your customers will appreciate. Optimum growth response and shorter maturity

time provide economic advantages that your accountant will appreciate. All DEGLAS High Impact acrylic sheets control UV light penetration, however, in applications where UV light transmission is desirable, DEGLAS ALLTOP® is one of the only glazing materials available in a formula that transmits the full spectrum of light including UV.

Thanks to our NO-DRIP® anti-condensate technology, DEGLAS acrylic glazing maintains optimal transparency even in bad weather. Unlike coatings on other glazing products that wear off, this patented procedure is an integral part of

*"In this growing environment, our focus was to maintain high light and energy conservation. With DEGLAS acrylic we can accomplish this along with a long life expectancy."*

— Otto Bulk, ROSA FLORA

the manufacturing process, making the NO-DRIP feature a component of the DEGLAS sheet. This water-dispersing layer causes rain and condensation to flow off as a continuous self-cleaning film, resulting in the highest possible light transmission and eliminating uncontrolled dripping that can result in crop damage and disease.

Comparisons between a conventional double-covered greenhouse and a structure glazed with DEGLAS acrylic show that DEGLAS transmits 20% more light. This is a significant advantage, particularly in the winter months. In addition to high light transmission, the ribbed design of DEGLAS sheets diffuse the light over the crop canopy, eliminating harsh 'hot spots' associated with growing under glass. DEGLAS glazing creates a stable growing environment that is bathed in an abundant quantity and quality of light.



Protect your investment with impact resistant and non-yellowing DEGLAS



*Image above shows greenhouse glazed with DEGLAS acrylic roofing and polycarbonate walls. Both the acrylic and the polycarbonate glazing are of similar age. This image has not been altered in any way.*

For decades, DEGLAS has out-performed other glazing products in greenhouses around the world. DEGLAS High Impact acrylic is weather resistant, and is backed by a 10 year limited warranty. We guarantee that DEGLAS will retain its light transmission and will not yellow over time, that it will keep its rigidity and strength and not become brittle. The rigid design of DEGLAS acrylic sheets provides high live load carrying capabilities, durability in extreme climates and resistance to hail. In fact, because our proprietary polymer is 10 times more impact resistant than traditional acrylics, our hail warranty is not pro-rated.

And, unlike polycarbonates that are known to yellow over time, DEGLAS customers across the continent can attest to the exceptional clarity that our acrylic glazing maintains over decades of exposure.

With DEGLAS, not only is your investment protected, but you are assured of stable growing conditions year after year.

*"We built this greenhouse in 1988 using DEGLAS acrylic on the roof and it's as clear as the day we installed it. We chose acrylic for the high light levels and longevity."*

— Rick Brinks, BORDINES NURSERY

Save on energy costs, year after year

DEGLAS High Impact double-skinned acrylic sheets deliver insulative values equal to thermal insulated glass units. Tight, insulated houses result in energy savings now and for years to come. Building with DEGLAS means you'll save with a lower initial cost for your boiler, heat lines and energy curtains, and when compared with single glass glazing, you can expect to save up to 50% in annual heating costs.

*"After installing DEGLAS ALLTOP® sheet on our latest greenhouse, we're seeing significant gains in terms of plant growth and energy conservation."*

— John Newland, NEWLAND FLOWERS

