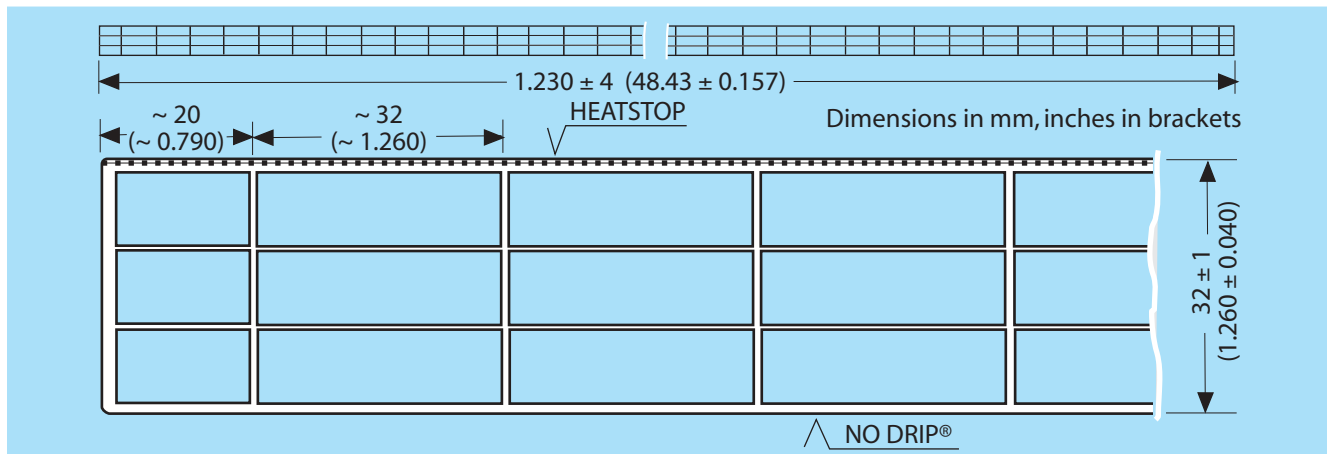


Technical Information

## Product Description

The "Cool" Sheet

### DEGLAS® HEATSTOP S4P 32 NO DRIP® Quadruple-skinned Sheet



#### Product and benefits

DEGLAS® HEATSTOP® \* S4P 32 NO DRIP\*\* is an **infrared-reflecting, highly heat-insulating** and weather-resistant quadruple-skinned sheet made of **impact-modified** acrylic (polymethyl methacrylate, PMMA) polymer. This quadruple-skinned sheet is always installed with the coextruded **HEATSTOP coating** facing upwards/outwards.

The DEGLAS® HEATSTOP S4P 32 sheet offers the user major advantages:

- **greater impact strength** than conventional multi-skinned PMMA sheets during transport, handling and installation,
- **reduces heat build-up** in rooms from direct sunlight by **almost 60 %**, thereby **reducing cooling costs**,
- **provides uniform day lighting** below or behind the glazing,
- **conserves energy** with its excellent **U-value of 1.6 W/m<sup>2</sup>K (0.28 BTU/hr•ft<sup>2</sup>•°F)**; the sheet meets many of the energy conservation objectives in to-days' energy conscious environment. It is therefore suitable for **highly heat-insulating** glazing in private buildings as well as in factories and sports halls.

The HEATSTOP coating gives the sheets a particularly attractive, reddish-purple surface sheen. Viewed from below,

the sheets give the impression of being pleasantly cool, as befits their function.

This color has an iridescent effect. The intensity and color impression may vary, depending on viewing angle and lighting conditions.

The light and energy transmission, rigidity, and strength features of the DEGLAS® HEATSTOP S4P 32 NO DRIP® sheet is covered by a limited 10 year warranty. A copy of the warranty is available upon request from CYRO.

Due to its **excellent rigidity** at a width of 1230 mm (48.43 inches) and lengths up to 7 m (23 feet), large areas can be glazed quickly and efficiently with this sheet. Few intermediate supports are required to carry substantial uniformly distributed loads (refer to Support Spacing data below), reducing installation costs. At the same time, reduction of structural members means less shading (more uniform illumination) in the area below.

**No additional cross members** are required for uniformly distributed loads up to 1000 N/m<sup>2</sup> (20.9 lb/ft<sup>2</sup>) when this sheet is supported on all four sides or even if it is only continuously clamped in suitable glazing bars along the longitudinal edges.

\*) Europ. patent 548 822

\*\*\*) Europ. patent 149 182

Technical Data (Typical values)		
Available lengths	2,000 to 7,000 mm (6.5' to 23')	
<b>Light transmittance <math>\tau_{D65}</math></b>	White WA013 NO DRIP® (UV-absorbing)	<b>approx. 40 %</b>
<b>Total energy transmission g</b>		<b>approx. 30 %</b>
<b>Selectivity factor</b>		<b>1.33</b>
<b>U-value</b>	<b>1.6 W/m<sup>2</sup>K</b> (Test report 13-901399/P4/Fi, FMPA Stuttgart) <b>(0.28 BTU/hr•ft<sup>2</sup>•°F)</b>	
Coefficient of heat expansion $\alpha$	0.09 mm/m °C (0.00005 in/in/°F)	
Possible expansion due to heat and moisture	about 6 mm/m (about 3/32"/ft)	
Max. permanent service temperature without load	70 °C (160°F)	
Weighted sound reduction index	24 dB	
Fire rating	ASTM D-635 CAN/ULC S102.2 DIN 4102	C2 or CC2 Burning Rate < 150 Flame Spread Classification B2, normally flammable

### NO DRIP® coating

The HEATSTOP sheet is installed with the side bearing the water-dispersing **NO DRIP® coating facing downwards/inwards**. This coating reduces water bead build-up and any condensation flows off as a continuous film, preventing uncontrolled dripping and letting more light into the glazed area.

The NO DRIP® coating is covered by a thin protective layer applied during the manufacturing process. This layer is washed off by rainwater or condensation, thus activating the NO DRIP® coating. The protective layer can also be removed with water and a sponge or by using a hose.

### Support spacing

Supported or clamped all around, this multi-skinned sheet requires **no additional cross members** for uniformly distributed loads up to 1000 N/m<sup>2</sup> (20.9 lb/ft<sup>2</sup>). For greater loads, the recommended spacing are given in the table. 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.

**IMPORTANT NOTICE:** The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. **NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.** Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention without a license.

This document describes the special features of the DEGLAS® HEATSTOP S4P 32 NO DRIP® quadruple-skinned sheet. Other multi-skinned sheets are described in their respective product data sheets.

**For additional information on multi-skinned sheets contact your SDP® (S4P) sheet distributor or CYRO.**

The availability of any particular product should be checked with your supplier.

**Fire Precautions:** DEGLAS® SDP® (and S4P) sheets are produced from molding compounds which are combustible thermoplastics. Precautions used to protect combustibles from flames and high heat sources should also be observed with these materials. SDP® sheets usually burn rapidly to completion if not extinguished. The products of combustion, if sufficient air is present are carbon dioxide and water. However, in many fires, sufficient air will not be available and toxic carbon

monoxide will be formed, as it will from other combustible materials. We urge good judgment in the end use of these versatile materials and recommend that building codes be followed carefully to assure they have been used properly. Access panels may be required for evacuation and venting of rooms glazed with SDP® sheets. SDP® sheets burn more rapidly than their solid counterparts. Non-combustible end caps must be used to prevent flame from contacting the open ends of the sheet.



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



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® = registered trademark

### Support spacing

Load		DEGLAS® HEATSTOP S4P 32 Width as delivered 1230 mm	
[N/m <sup>2</sup> ]	(lb/ft <sup>2</sup> )	[m] Support spacing (inches)	
750	(15.7)	∞	(∞)
1000	(20.9)	∞	(∞)
1250	(26.1)	4.3	(169.3)
1500	(31.3)	3.8	(149.6)
1750	(35.5)	3.4	(133.9)
2000	(41.8)	3.1	(122.0)
2250	(47.0)	2.3	(90.6)
2500	(52.2)	2.0	(78.7)
2750	(57.4)	1.9	(74.8)
3000	(62.6)	1.8	(70.9)

**DEGLAS** is a registered trademark of Röhm GmbH & Co. KG, Darmstadt, Germany.

**SDP, ALLTOP, NO DRIP** are registered trademarks of CYRO Industries, Rockaway, NJ, USA.

Authorized distributor:

