



# TECHNICAL DATA SHEET

## Nuform Building Technologies Inc.

### PRODUCT

RELINE® is a PVC based, polymer product that is manufactured using up to 15% pre-consumer, recycled material. The interlocking components are designed to clad wall and ceiling surfaces of buildings. The product complies with the National Building Code of Canada and the International Building Code. RELINE® provides a Class A interior finish and is permitted in buildings that require either combustible or non-combustible construction. RELINE® may contribute toward LEED® points.

The extruded panels are available in a standard white, bright white and custom colors.

The <sup>5</sup>/<sub>16</sub>" thick (8mm) panels interlock along one edge and are held in place to the supporting structure, by nailing or fastening at the other edge. The panels are 12" (305mm) wide.

RELINE® provides a hard smooth surface with a semi-gloss finish. The material needs minimal maintenance and cleans easily with power washing. The material provides a water-resistant layer that can withstand many corrosive chemicals commonly found in vehicle wash buildings and agricultural facilities.

### PHYSICAL PROPERTIES: TABLE 1

Property	Typical Values (These values are not intended for use in preparing specifications)		Test Method
Weight	0.66 psf	(3.28 kg/m <sup>2</sup> )	n/a
Tensile Strength	5800 psi	(40.0 MPa)	ASTM D638
Tensile Modulus	456,000 psi	(3150 MPa)	ASTM D638
Flexural Strength	10,280 psi	(70.9 MPa)	ASTM D790
Flexural Modulus	417,600 psi	(2880 MPa)	ASTM D790
Notched Izod Impact (23°C)	4.5 ft-lb/in of notch	(240 J/m)	ASTM D256
Shore D Hardness	77		ASTM D2240
Coefficient of Linear Thermal Expansion	2.8 x 10 <sup>-5</sup> in/in/°F	(5.0 x 10 <sup>-5</sup> cm/cm/°C)	ASTM D696
Heat Deflection Temperature	165 °F	(73.9 °C)	ASTM D648
Drop Dart Impact A&B	1.1 in-lb/mil	(4890 J/m)	ASTM D4226
Specific Gravity	1.47		ASTM D792
Flash Ignition Temperature	860 °F	(460 °C)	ASTM D1929
Horizontal Burning Rate	0.0 in/min	(0.0 mm/min)	ASTM D635
Flammability Classification	V-0		UL 94
Flame Spread	5 *		ASTM E84
	5		CAN/ULC S102.2
Smoke Developed	220 *		ASTM E84
	115		CAN/ULC S102.2

\* When tested to simulate actual conditions.

### CODE AND PRODUCT EVALUATIONS

- Leber Rubes Inc., Fire and Code Consultants - for conformance to NBC, OBC and IBC
- CFIA, Listing N251 - for acceptance in food processing facilities

## INSTALLATION

The RELINE® panels are designed to interlock along one edge and are mechanically fastened to an existing wall, strapping or roof structure through a slotted nailing fin along the other edge. The RELINE® Installation Guide provides details regarding the installation procedure and is available from local distributors or by contacting NUFORM®. The RELINE® Installation Guide is available in PDF format on the NUFORM® web site: [www.nuformdirect.com](http://www.nuformdirect.com)

## MAINTENANCE

Normal maintenance to remove accumulated dirt, soap film and/or calcium deposits requires periodic washing with REVIVE, a cleaner that is available from Nuform Building Technologies Inc. The REVIVE cleaner, diluted 1:3 with water, is applied with a spray and a soft brush and is allowed to soak for 5 to 10 minutes. Then the surface is rinsed clean, with fresh water, using a power washer. Please contact NUFORM® for information on cleaning other specific stains. Strong cleaners such as chlorine based bleaches, acetone products and pine oil based cleaners may dull or damage the RELINE® surface and are not recommended. All strong cleaners should be tested on a small sample area, prior to use.

## WARRANTY

Nuform Building Technologies Inc. (NUFORM®) offers a 10-year limited warranty on the product. Please contact your NUFORM® representative for details. NUFORM® employs a comprehensive quality control program and attempts to ensure that all products are free from defects. However, users are expected to inspect all components before installation. If received products appear to be damaged or defective, the manufacturer shall be contacted for replacement, immediately. Due to the varying nature of installations, NUFORM® makes no representation of warranty either expressed or implied, regarding suitability or installation for a particular use. No consideration will be provided for any claims, such as but not limited to; shipping, labor, handling, overhead, installation, lost profit, lost production and/or any other losses or expenses.

## LIMITATIONS

RELINE® shall not be used:

- When the temperature during installation is below 40°F (5°C)
- When the ambient or surface temperature of the material will be above 122°F (50°C)
- When heaters, including radiant heaters, will be located less than 18" (450 mm) from the surface
- When installed as a component of an air duct system
- When installed as an interior finish material in a high building

The information given herein is believed to be reliable. It is offered in good faith, but no representations, guarantees, warranties of any kind are made to its accuracy, suitability for specific applications or for the results obtained from those applications. Since conditions of use are beyond our control, all risks are assumed by the user. Nothing herein shall be construed as a recommendation for uses, which infringe on valid patents or as extending a license under valid patents.

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