



# PANEL WITH POLYISOCYANURATE (POLYURETHANE)

The Norex-S panel is a high-energy-efficient insulated metal panel designed for interior partitions.

## NOREX<sup>®</sup>-S

### SPECIFICATIONS

<b>DESCRIPTION</b>	→ Vertical Mounting with straight joint → Applications: Interior partitions & ceilings		
<b>REVEAL   OPENING OPTION</b>	1/8"		
<b>WIDTH <sup>(1)(2)</sup></b>	44"		
<b>THICKNESS</b>	3" or 4"		
<b>R-VALUE</b>	→ R7.8/in @ 55 °F mean temperature <sup>(4)</sup> → R8.2/in @ 20 °F mean temperature <sup>(4)</sup>		
<b>MAXIMUM LENGTH</b>	52' - 3"		
<b>PROFILE</b>	→ Interior : Silkline or Grooved → Exterior : Silkline or Grooved		
<b>GAUGE</b>	→ Interior : 26, 24 or 22 ga → Exterior : 26, 24 or 22 ga		
<b>WEIGHT (lbs/ft<sup>2</sup>) <sup>(3)</sup></b>		<b>3"</b>	<b>4"</b>
	<b>26/26 ga</b>	2.16	2.38
	<b>24/24 ga</b>	2.66	2.88
	<b>22/22 ga</b>	3.16	3.38

### JOINT



(1) The final module width may change due to fabrication and installation tolerances. It is not recommended to design panel layouts where precise panel joint position is critical, as minor variations may occur. (2) Product availability is subject to change without notice and minimum quantities may be required for certain product configurations. For more information, please contact your local representative. (3) Calculations based on an insulated density of 2.29. (4) Results as per ASTM C518 testing following NRCan and DOE guidelines.

## APPLICATIONS

Norex-S panels are interior partitions ideal for food processing plants, cold storage, and controlled environment applications, offering superior thermal insulation and moisture resistance.

## FEATURES / BENEFITS



- Fast, simple & economical installation
- Covers a greater surface area while maintaining peak performance
- Preferred choice for food processing and controlled environment facilities



- Contains up to 53.8% recycled content
- Can contribute to obtaining LEED certification for a project



- No cavities, thermal bridges, or risk of interstitial condensation. Closed cell insulation
- Option : factory-applied butyl sealant in the interior and exterior joint



## MAIN PHYSICAL PROPERTIES OF POLYISOCYANURATE

PROPERTY	METHOD	RESULTS
R-value/in. of thickness	ASTM C518	<ul style="list-style-type: none"> <li>→ R7.8/in @ 55 °F mean temperature <sup>(4)</sup></li> <li>→ R8.2/in @ 20 °F mean temperature <sup>(4)</sup></li> </ul>
Density (lbs/ft <sup>3</sup> )	ASTM D1622	Density (pcf) 2.29
Compressive strength (psi)	ASTM D1621	13.7 PSI (3" thick sample)
Flexural strength (psi)	ASTM C203	25-30
Permeability to water vapor (perms/in.)	ASTM E96/E96M	< 2.0
Water absorption (max.)	ASTM D2842	< 1.5 %
Dimensional stability (max.)	ASTM 2126	Dimensional stability: Std dev 0.2  7 day Vol Chg @ 70 °C/97 % R.H 4.3

# TESTS / CERTIFICATIONS

	PROCEDURE	RESULTS
Fire – Canada	CAN/ULC-S101	Meets 10-minute stay-in-place requirements
	CAN/ULC-S102	Flame spread $\leq 25$ Smoke developed $\leq 100$ → Evaluated with steel skin
	CAN/ULC-S126	Test requirements have been met
	CAN/ULC-S138	Test requirements have been met
Fire – US	ASTM E84	Flame spread $\leq 25$ Smoke developed $\leq 100$ → Evaluated with steel skin
	ASTM D1929	Ignition Properties Flash Ignition Temperature : $\geq 600^{\circ}\text{F}$ ( $316^{\circ}\text{C}$ ) Spontaneous Ignition Temperature : $\geq 800^{\circ}\text{F}$ ( $427^{\circ}\text{C}$ )
	NFPA 259	Test requirements have been met
	NFPA 286	Test requirements have been met
	FM-4880	Product approved up to 6" thick
Structural	ASTM E72	See Norex Deflection Chart for Single Span application
Thermal performance	ASTM C518	→ R7.8/in @ 55 °F mean temperature <sup>(4)</sup> → R8.2/in @ 20 °F mean temperature <sup>(4)</sup>
	ASTM C1363	U-value (BTU/h*F*ft <sup>2</sup> ) 4" .0348
	NRCAN / DOE	Complies with Amend 14 and Title 10 / Chapter II / Subchapter D / Part 431 / Subpart R

Product availability is subject to change without notice and minimum quantities may be required for certain product configurations. For more information, please contact your local representative. All specifications provided in this document are current at the time of printing. Per Norbec Architectural's commitment to continuous product improvement, we reserve the right to modify specifications at any time without prior notice. The latest version can be found on the website. Norbec.com – 1 877 667-2321

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