Technical Data Sheet

Nordic Void NV-400

Engineered Void Form

Nordic Void is a strong, flexible and water resistant closed-cell elastomeric Void Form designed to be compliant yet resilient when used under suitable pile/pile-cap (caisson), pile cap/grade beam and slab on grade foundations.

MATERIAL PROPERTY	MATERIAL DATA	TESTING METHOD
Thermal Conductivity k (mean) @ 24 °C (75 °F)	0.062 W/m*K (.43 Btu-in/hr-ft^2-F)	ASTM C518
Thermal Resistance R-Value (RSI) @ 24 °C (75 °F)	R – 2.3 Hr-ft^2-°F/Btu (RSI – 0.41 m^2·K/W)	ASTM C518
Compressive Deflection: 10% Compression 20% Compression 25% Compression 30% Compression 40% Compression 50% Compression	 81.4 kPa (11.8 psi) 91.7 kPa (13.3 psi) 98.6 kPa (14.3 psi) 107.6 kPa (15.6 psi) 133.8 kPa (19.4 psi) 173.8 kPa (25.2 psi)	ASTM D1621
Multiple Cycle Rebound @ 0°C (32°F) Rebound following multiple cycles of 25% compression performed @ 0°C following a 24 hour pre-load at 24.1 kPa (3.5 psi). Value reported is the per-cent recovered of the pre-load thickness.	> 95% (% recovery)	Norseman MPS-112
Compression Set: @ 50% compression	< 15%	ASTM D3575
Compressive Creep 300 hours & 1,000 hours @ 24.1 kPa (3.5 psi) 300 hours & 1,000 hours @ 34.5 kPa (5.0 psi)	 < 4% @ 300 h / <7% @ 1,000 h < 5% @ 300 h / <8% @ 1,000 h	ASTM D3575
Tensile Strength at Peak	297 kPa (43 psi)	ASTM D3575
Tear Strength	2.98 kN/m (17 lb/in.)	ASTM D3575
Thermal Stability - % shrinkage	< 2.0 %	ASTM D3575
Water Absorption	0.98 kg/m² (0.2 lb/ft^2)	ASTM D3575

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