



noraplan®

Product	2.0 mm Products: eco, environcare, sentica, stone, environcare nTx, sentica nTx	3.0 mm Products: environcare, sentica, environcare nTx, sentica nTx	2.0 mm/3.0 mm: lona	2.0 mm/3.0 mm: valua	acoustic Products: environcare, sentica	ed Products: environcare, sentica
<b>ASTM F1344 Rubber Floor Tile</b>	Type I Grade 1 (excludes nTx)	Type I Grade 1 (excludes nTx)	Type I Grade 1	Type I Grade 1 (plank only)	-	Type I Grade 1
<b>ASTM F1859 Rubber Sheet Floor Without Backing</b>	Type I	Type I	Type I	Type I (excludes plank)	-	Type I
<b>ASTM F1860 Rubber Sheet Floor With Backing</b>	-	-	-	-	Type I Grade 2	-
<b>Limited Wear Warranty (in years)</b>	15	15	5	5	15	15
<b>Bond Warranty (nTx only - in years)</b>	10	10	-	-	-	-
<b>Conductivity Warranty (in years)</b>	-	-	-	-	-	10
<b>Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 required</b>	Class 1 0.97 0.88 (nTx)	Class 1 1.03 0.82 (nTx)	Class 1 0.93 (2.0 mm) 1.09 (3.0 mm)	Class 1 0.98 (2.0 mm) 1.08 (3.0 mm)	Class 1 1.0	Class 1 1.0
<b>Smoke Density (ASTM E662/NFPA 258): &lt; 450 required for both flaming/non-flaming</b>	196/207 199/120 (nTx)	376/256 282/155 (nTx)	152/186 (2.0 mm) 150/246 (3.0 mm)	134/109 (2.0 mm) 360/203 (3.0 mm)	299/153	81/122
<b>CAN/ULC-S102.2: Surface Burning for FSC1/SD</b>	Contact the nora® Technical Department or refer to the nora® Guide Specification for details.					
<b>Slip Resistance (ASTM D2047): ≥ 0.5 required for both dry/wet</b>	0.93/0.90	0.93/0.91	0.92/0.91 (2.0 mm) 0.97/0.94 (3.0 mm)	0.97/0.85	1.0/0.90	0.92/0.89
<b>Suitable for Ramps</b>	No	No	No	No	No	No
<b>Bacteria Resistance (ASTM E2180/ ASTM G21)</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>GREENGUARD Gold Certified for Low VOC Emissions</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>CA 01350 Compliant</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Latex Allergies (ASTM D6499)</b>	Inhibition Elisa, results are below detection level					
<b>Sound Absorption (ASTM E2179): compare ΔIIC values only</b>	ΔIIC 11	ΔIIC 14	ΔIIC 11 (2.0 mm) ΔIIC 14 (3.0 mm)	Call for specifics	ΔIIC 21	**
<b>Sound Absorption (ISO 140): compare ΔLw values only</b>	ΔLw 8 dB	ΔLw 10 dB	ΔLw 8 dB (2.0 mm) ΔLw 10 dB (3.0 mm)	ΔLw 8 dB (2.0 mm) ΔLw 10 dB (3.0 mm)	ΔLw 18 dB	ΔLw 6 dB
<b>Hardness (ASTM D2240): Shore Type A</b>	92	92	92	92	92	92
<b>Static Load (ASTM F970): with 800 lbs./psi ≤ 0.005 in. with 250 lbs. required</b>	0.003 0.002 (nTx)	0.003	0.003	0.002 (2.0 mm) 0.003 (3.0 mm)	0.003	0.003
<b>Rolling Load Limit: lbs./psi (1)</b>	450	550	450 (2.0 mm) 550 (3.0 mm)	450 (2.0 mm) 550 (3.0 mm)	450	450

Product	2.0 mm Products: eco, environcare, sentica, stone, environcare nTx, sentica nTx	3.0 mm Products: environcare, sentica, environcare nTx, sentica nTx	2.0 mm/3.0 mm: lona	2.0 mm/3.0 mm: valua	acoustic Products: environcare, sentica	ed Products: environcare, sentica
Forklift Traffic	No	No	No	No	No	No
Abrasion Resistance (ASTM D3389): H-18 Wheels 1.1 lb. load and 1000 cycles ≤ 0.035 oz. (1.0g) required	0.008	0.003	0.008 (2.0 mm) 0.003 (3.0 mm)	0.006	0.007	0.002
Oil & Grease Resistance	No	No	No	No	No	Yes
Heat Resistance (ASTM F1514): Avg. ΔE ≤ 8.0 required	Easily achieved with all batches and regular maintenance.					
Light Resistance ASTM F1515): Avg. ΔE ≤ 8.0 required	Easily achieved with all batches and regular maintenance.					
Static Generation (AATCC 134): 20% RH	< 2000 volts	< 2000 volts	< 2000 volts	< 2000 volts	< 2000 volts	< 2000 volts
Static Generation (ANSI ESD S97.2): *	-	-	-	-	-	< 20 volts
Conductivity (ASTM F150): ohms	-	-	-	-	-	10 <sup>6</sup> < 10 <sup>9</sup>
Thermal Transmission (ASTM C518): R-value	0.04	0.04	0.04	0.04	0.20	0.01

(1) The shape of the wheel's contact surface must be flat with rounded edges. No metal wheels. Short hardness should be ≤ 99, Type A.

\* Tested with conductive shoes.

\*\* Not tested.

Note: Exact values may vary due to the test methods and tolerance between batches. The ASTM minimum requirement shall be achieved or exceeded.

Dated: February 2020

**nora systems, Inc.**

9 Northeastern Blvd.

Salem, NH 03079

Toll free: 800-332-NORA

Phone: (603) 894-1021

Fax: (603) 894-6615

E-mail: info-us@nora.com

www.nora.com/us