

# norament<sup>®</sup>

Product	arago <sup>™</sup> , arago <sup>™</sup> nTx <sup>™</sup>	castello <sup>™</sup> , grano <sup>™</sup> , pado <sup>™</sup> , satura <sup>™</sup> , grano <sup>™</sup> nTx <sup>™</sup> , satura <sup>™</sup> nTx <sup>™</sup>	grano ed	hammered	kivo <sup>™</sup>	825 round <sup>™</sup>	xp <sup>™</sup> , xp <sup>™</sup> nTx <sup>™</sup>	xp trac <sup>™</sup> , xp trac <sup>™</sup> nTx <sup>™</sup>	920	992, 992 grano <sup>™</sup>	Stairtreads		
											arago, grano, satura	round, hammered	920
ASTM F1344 Rubber Floor Tile	Type IB Grade 2	Type IB Grade 2	Type IB Grade 2	Type IA Grade 1	Type IB Grade 2	Type IA Grade 1	Type IB Grade 1	Type IB Grade 1	Type IA Grade 1	992: Type IIA 992 grano: Type IIB Grade 2	-	-	-
ASTM F2169 Resilient Stair Treads	-	-	-	-	-	-	-	-	-	-	Type TS Class 2 Group 1 or 2 Grade 2	Type TS Class 2 Group 1 or 2 Grade 2	Type TS Class 2 Group 1 or 2 Grade 1
Product Warranty (in years)	15	15	15	15	15	15	15	15	15	15	15	15	15
Bond Warranty (nTx only – in years)	10	10	-	-	-	-	10	10	-	-	-	-	-
Conductivity Warranty (in years)	-	-	10	-	-	-	-	-	-	-	-	-	-
Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 required	Class 1 0.92 nTx: 0.98	Class 1 0.92 nTx: 0.97	Class 1 0.58	Class 1 0.87	Class 1 1.1	Class 1 0.80	Class 1 0.71 0.54 (nTx)	Class 1 0.68	Class 1 0.94	Class 1 0.56	Class 1 1.0	Class 1 1.1	Class 1 0.94
Smoke Density (ASTM E662/NFPA 258): < 450 required for both flaming/non-flaming	267/130 nTx: 369/205	267/130 nTx: 346/145	418/285	162/208	231/234	413/367	423/290 nTx: 422/201	372/284	272/167	289/373	arago: 267/130 334/168	380/230	272/167
Tunnel Test (ASTM E84): flame/smoke	**	**	**	**	**	**	**	**	Class A 15/300	**	**	**	Class A 15/300
CAN/ULC-S102.2: Surface Burning for FSC1/SD	Contact the nora <sup>®</sup> Technical Department or refer to the nora <sup>®</sup> Guide Specification for details.												
Slip Resistance (ASTM D2047): ≥ 0.5 required for both dry/wet	0.81/0.87	castello/ pado: 0.89/0.93 0.99/0.95	1.0/0.90	0.90/1.0	0.87/0.93	0.76/0.85	0.90/1.0	.99/.98	0.85/0.76	0.93/0.93	arago: 0.81/0.87 0.99/0.95	round: 0.85/0.76 hammered: 0.99/0.95	0.85/0.76
Bacteria Resistance (ASTM E2180/ ASTM G21)	Resistant to bacteria, fungi, and micro-organism activity												
Indoor Air Quality:	GREENGUARD Gold Certified for low VOC emissions in compliance with CDPH 01350												
Carbon:	3 <sup>rd</sup> party certified carbon neutral throughout their entire life cycle through the Interface Carbon Neutral Floors <sup>™</sup> program. Learn more at <a href="http://www.interface.com/carbonneutral">www.interface.com/carbonneutral</a> .												
Latex Allergies (ASTM D6499)	Inhibition Elisa, results are below detection level												
Sound Absorption (ASTM E2179): compare ΔIIC values only	ΔIIC 15	ΔIIC 11	**	**	ΔIIC 11	**	ΔIIC 15	ΔIIC 15	**	**	**	**	**
Sound Absorption (ISO 10140-3): compare ΔLw values only	ΔLw 10 dB	ΔLw 11 dB	ΔLw 15 dB	ΔLw 9 dB	ΔLw 11 dB	ΔLw 12 dB	**	**	ΔLw 13 dB	ΔLw 17 dB	**	**	**

Product	arago, arago nTx	castello, grano, pado, satura, grano nTx, satura nTx	grano ed	hammered	kivo	825 round	xp, xp nTx	xp trac, xp trac nTx	920	992, 992 grano	Stairtreads		
											arago, grano, satura	round, hammered	920
Hardness (ASTM D2240): Shore Type A	82	82	84	89	82	89	89	89	91	77	82	82	91
Static Load (ASTM F970): with 800 lbs./psi ≤ 0.005 in. with 250 lbs. required	0.004	0.005	0.004	0.005	0.005	0.004	0.002	0.005	0.005	0.004	0.005	0.005	0.005
Rolling Load Limit (ASTM F2753): lbs./psi (1)	850	850	850	550	850	550	850	850	850	850	-	-	-
Forklift Traffic	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	-	-	-
Abrasion Resistance (ASTM D3389): H-18 Wheels 1.1 lb. load and 1000 cycles ≤ 0.035 oz. (1.0g) required	0.008	0.002	0.004	0.006	0.002	0.005	0.005	0.005	0.007	0.005	arago: 0.006 0.002	round: 0.005 hammered: 0.006	0.007
Oil & Grease Resistance (EN/ISO 26987)	Yes	Yes	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes
Heat Resistance (ASTM F1514): Avg. ΔE ≤ 8.0 required	Easily achieved with all batches and regular maintenance.												
Static Generation (AATCC 134): 20% RH	< 1000 volts	< 1000 volts	-	< 1000 volts	< 1000 volts	< 1000 volts	< 1000 volts	< 1000 volts	< 1000 volts	< 1000 volts	< 1000 volts	< 1000 volts	< 1000 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	-0.90	-0.90	**	**	**	**	**	**	**	**	**	**	**

(1) The shape of the wheel's contact surface must be flat with rounded edges. No metal wheels. Short hardness should be ≤ 90, 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.

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