



norament®

Product	grano	grano ed	ingresso	round & hammered	satura	serra	xp	xp trac	920	992	992 grano	stairtreads		
												grano / satura	round & hammered	920
Limited Wear Warranty (in years)	10	10	10	10	10	10	10	10	10	5	5	10	10	10
Conductivity Warranty (in years)	—	10	—	—	—	—	—	—	—	—	—	—	—	—
ASTM F1344 (tiles) Classification	Type IB Grade 2	Type IB Grade 2	Type IIB Grade 2	Type IA Grade 1	Type IB Grade 2	Type IB Grade 2	Type IB Grade 1	Type IB Grade 1	Type IA Grade 1	Type IIA Grade 2	Type IIB Grade 2	—	—	—
ASTM F2169 Classification	—	—	—	—	—	—	—	—	—	—	—	Type TS Class 2 Group 1 or 2 Grade 2	Type TS Class 2 Group 1 or 2 Grade 1	Type TS Class 2 Group 1 or 2 Grade 1
Critical Radiant Flux ASTM E648 (min ≥ 0.45)	Class 1 1.00	Class 1 0.58	Class 1 1.04	Class 1 0.8 (round) 0.87 (hammered)	Class 1 1.00	Class 1 1.1	Class 1 0.71	Class 1 0.68	Class 1 0.94	Class 1 0.56	Class 1 0.56	Class 1 1.00	Class 1 1.1 (round) 1.1 (hammered)	Class 1 0.94
Smoke Density ASTM E662 (both <450) flaming/non-flaming	334/168	418/285	240/181	413/367 (round) 162/208 (hammered)	334/168	380/230	423/290	372/284	272/167	289/373	289/373	168/334	380/230 (round) 380/230 (hammered)	272/167
CAN/ULC-S102.2 (Flame Spread/Smoke Developed)	70/470	—	95/510	—	70/470	75/470	55/450	55/545	5/30	75/1000	75/1000	70/470	—	5/30
Tunnel Test ASTM E84	**	**	**	**	**	**	**	**	Class A (flame 15/ smoke 300)	**	**	**	**	Class A (flame 15/ smoke 300)
Static Coefficient of Friction ASTM D2047 (dry/wet)	0.99/0.95	1.0/0.9	0.95/0.92 (landscape) 0.85/0.92 (hammered)	0.76/0.85 (round) 0.9/1.0 (hammered)	0.99/0.95	0.81/0.87	0.9/1.0	0.99/0.98	0.85/0.76	0.93/0.93	0.93/0.93	0.99/0.95	0.85/0.76 (round) 0.99/0.95 (hammered)	0.85/0.76
Suitable for Ramps	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—
Abrasion ASTM D3389 H-18 wheel 1.1 lbs load and 1000 cycles (<0.035 oz required)	0.002	0.004	0.007	0.005 (round) 0.006 (hammered)	0.002	0.008	0.005	0.005	0.007	0.005	0.005	0.002	0.005 (round) 0.006 (hammered)	0.007
Shore Hardness Type A ASTM D2240	82	84	85	89	82	82	89	89	91	77	77	82	82	91
Rolling Load Limit (lbs/psi) (1)	850	850	Caster chair	550	850	850	850	850	850	850	850	—	—	—
Forklift Traffic	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—
Static Load Limit (Residual Compression) ASTM F970 with 800 lbs/psi	0.005	0.004	0.002	0.004 (round) 0.005 (hammered)	0.005	0.004	0.002	0.005	0.005	0.004	0.004	0.005	0.005 (round) 0.005 (hammered)	0.005
Heat Resistance ASTM F1514, Require Avg. ΔE ≤ 8.0	← Easily achieved with regular maintenance. →													
Sound Absorption E2179 (ΔIIC only)	ΔIIC 11	**	**	**	ΔIIC 11	**	ΔIIC 15	ΔIIC 15	**	**	**	**	**	**
Sound Absorption ISO 140 (ΔLw only)	ΔLw 11dB	ΔLw 15dB	ΔLw 8 dB	ΔLw 12 dB (round) ΔLw 9 dB (hammered)	ΔLw 11 dB	**	**	**	ΔLw 13 dB	ΔLw 17dB	ΔLw 17dB	**	**	**
Oil and Grease Resistance	Yes	Yes	Yes	No	Yes	Yes	No	No	No	No	No	Yes	No	No
Chemical Resistance	← Call for specifics. →													
Static Generation ANSI ESD S97.2 ¹⁾	—	<20 volts	—	—	—	—	—	—	—	—	—	—	—	—
Static Generation AATCC 134 (20% RH)	<2000 volts	<2000 volts	<2000 volts	<2000 volts	<2000 volts	<2000 volts	<2000 volts	<2000 volts	<2000 volts	<2000 volts	<2000 volts	<2000 volts	<2000 volts	<2000 volts
Decay Time FTM 101 C 4046	—	<0.25 (sec)	—	—	—	—	—	—	—	—	—	—	—	—
ESD ASTM F150 (ohms)	—	10 ⁴ <10 ⁹	—	—	—	—	—	—	—	—	—	—	—	—
Bacteria Resistance ASTM E2180 and ASTM G21	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GREENGUARD Certified for Low VOC Emissions	Yes	Yes	Yes	No	Yes	Yes	Yes	**	Yes	**	**	Yes	Yes	Yes
GREENGUARD Gold Certified for Low VOC Emissions	Yes	Yes	Yes	No	Yes	Yes	Yes	**	Yes	**	**	Yes	Yes	Yes
CA 01350 Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	**	Yes	**	**	Yes	Yes	Yes

1) The shape of the wheel's contact surface must be flat with rounded edges. No metal wheels. Shore 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.

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