

MARMSTONE MICROCHIP RANGE TECHNICAL CHARACTERISTICS	
COMPOSITION	95% Marble Chips, 5% Polyester Resin
STANDARD SIZES	FLOOR AND WALL TILES, SQUARE OR RECTANGULAR 300 x 300 x 9 mm (12" x 12" x 3/8" nominal) 300 x 600 x 12 mm (12" x 24" x 1/2" nominal) 400 x 400 x 12 mm (16" x 16" x 1/2" nominal) 600 x 600 x 12 mm (24" x 24" x 1/2" nominal) SLABS: 306 x 123 x 2 cm (10' x 4' x 3/4" nominal) 306 x 123 x 3 cm (10' x 4' x 1-1/4" nominal)
FINISHES	Polished, Honed or Sandblasted
WEIGHT	4.5 lbs. per square foot 9 mm thick
DENSITY	2.40 - 2.50 kg/dm ³ ASTM C97
RESISTANCE TO IMPACT	R.D. 2234 (tested by dropping a 1 kg. ball onto a 30x30x3cm slab from a height of 90 cm)
SURFACE SCRATCH HARDNESS	3-4 on Mohs scale
FROST RESISTANCE	After 30 test cycles of alternately placing the material in a refrigerator at -18 C and in water at 35 C, no change was observed.
COMPRESSIVE STRENGTH	15900-20300 psi - ASTM C170
FLEXURAL STRENGTH (modulus of rupture)	2900-5080 psi - ASTM C99
WATER ABSORPTION	0.05-0.20% - ASTM C97
THERMAL STABILITY	No dimensional change was observed after 6 hours at 80C
RESISTANCE TO DEEP ABRASION	Index 20-32 mm ³ 250-393 ASTM C241
STATIC CO-EFFICIENT OF FRICTION	Honed 400: 0.71 Polished : 0.71 ASTM C1028 (Neolite: dry)
ACCELERATED AGING (XENON ARC EXPOSURE)	No visible change - ASTM D2565
SURFACE SPREAD OF FLAME	Class A or Class 1 - ASTM E84
CO-EFFICIENT OF LINEAR THERMAL EXPANSION	10 - 20 x 10 ⁻⁶ M/M C - ASTM D4535
SURFACE RESISTIVITY	1 x 10 ¹⁵ ohm - ASTM D-229

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