

# Anatolia 6 mm Sintered Slab Technical Information

anatolia

STANDARD EN 14411

ACCORDING TO ANNEX G (NORMATIVE) DRY-PRESSED CERAMIC TILES WITH LOW WATER ABSORPTION

E ≤ 0,5 % GROUP BIA GL/ UGL

TECHNICAL CHARACTERISTICS		TEST METHOD	EN 14411- ANNEX G REQUIRED VALUES	ANATOLIA VALUES 6 MM
DIMENSIONS AND SURFACE QUALITY	LENGTH AND WIDTH THICKNESS RECTANGULARITY STRAIGHTNESS OF SIDES SURFACE FLATNESS; CENTRE CURVATURE, EDGE CURVATURE, WARPAGE	EN ISO 10545-2	N≥ 15 CM; ± 0.6, ± 2 MM N≥ 15 CM; ± 5%, ± 0.5 MM N≥ 15 CM; ± 0.5%, ± 2.0 MM N≥ 15 CM; ± 0.5%, ± 1.5 MM N≥ 15 CM; ± 0.5%, ± 2.0 MM	± 0.1% ± 0.2 MM ± 0.05% ± 0.05% ± 0.2%
BREAKING STRENGTH (NEWTON)	THICKNESS < 7.5MM THICKNESS ≥ 7.5MM	EN ISO 10545-4	KALINLIK < 7.5MM, S ≥ 700 N KALINLIK ≥ 7.5MM, S ≥ 1300 N	≥ 1400 N
MODULUS OF RUPTURE (N/MM <sup>2</sup> )			R ≥ 35 N / MM <sup>2</sup>	52 N / MM <sup>2</sup>
WATER ABSORPTION		EN ISO 10545-3	≤ 0.5%	< 0.08 %
LINEAR THERMAL EXPANSION		EN ISO 10545-8	DECLARED VALUE	6.0 X 10-6 °C
IMPACT RESISTANCE		EN ISO 10545-5	DECLARED VALUE	0.83
ABRASION RESISTANCE		EN ISO 10545-6	≤175 MM <sup>3</sup>	ORGANIC MATTE, VINTAGE, GRAINED, PATINATED: ≤ 120 MM <sup>3</sup> SILK, POLISHED, HONED: ≤140 MM <sup>3</sup>
RESISTANCE TO THERMAL SHOCK		EN ISO 10545-9	RESISTANT	RESISTANT
FROST RESISTANCE		EN ISO 10545-12	RESISTANT	RESISTANT
CHEMICAL RESISTANCE		EN ISO 10545-13	MINIMUM CLASS B	ORGANIC MATTE, VINTAGE, GRAINED, PATINATED, SILK : CLASS A HONED, POLISHED: MINIMUM CLASS B
STAIN RESISTANCE		EN ISO 10545-14	GL: MINIMUM 3 UGL: DECLARED VALUE	ORGANIC MATTE, VINTAGE, GRAINED, PATINATED, SILK: CLASS 5 POLISHED, HONED: CLASS 4
SLIP RESISTANCE		DIN EN 16165 ANNEX B	BASED ON USAGE AREA	ORGANIC MATTE, SILK: R10 PATINATED: R9 VINTAGE, GRAINED: R11 POLISHED, HONED: R(-)
		DIN EN 16165 ANNEX C	BASED ON USAGE AREA	ORGANIC MATTE, PATINATED, SILK: ≥ 36 PTV WET & DRY VINTAGE, GRAINED: ≥ 45 PTV WET & DRY

Test values are based on ANSI / ISO standards according to: ANSI A137.1 (Section 6), ISO 13006 (Section 7), EN 14411 (Section 8). Variances in test values can occur in different production lots. While the information has been presented with all due care, Anatolia Inc, does not warrant the information is free from errors or omission. Actual colors may vary depending on product.

STANDARD ANSI 137.1  
ACCORDING TO AMERICAN SOCIETY TESTING AND MINERALS (ASTM)

TECHNICAL CHARACTERISTICS		ANSI 137.1- REQUIRED VALUES	ANATOLIA DECLARED VALUES 6 MM
ASTM C499	CALIBER RANGE (VARIATION FROM AVERAGE FACIAL DIMENSION OF SAMPLE)	± 0.25% OR ± 0.03 IN (± 0.8 MM)	0.10%
ASTM C499	THICKNESS	RANGE: 0.040 IN (1.02 MM)	± 0.2 MM
ASTM C485	WARPAGE DIAGONAL	± 0.4 % OR ± 0.07 IN (± 1.8 MM)	± 0.05%
ASTM C485	WARPAGE EDGE	± 0.4% OR ± 0.05 IN (± 1.3 MM) OR ±1.8 MM	± 0.05%
ASTM C502	WEDGING	± 0.25% OR ± 0.03 IN (± 0.8 MM)	± 0.05%
ASTM C1026	RESISTANCE TO FREEZE-THAW CYCLING	-	NOT AFFECTED
ASTM C1243	DEEP ABRASION	AS REPORTED	ORGANIC MATTE, VINTAGE, GRAINED, PATINATED: ≤ 120 MM <sup>3</sup> SILK, POLISHED, HONED: ≤ 140 MM <sup>3</sup>
ASTM C373	BOND STRENGTH	≥ 50 PSI (0.34 MPa)	310 PSI
ASTM C372	LINEAR THERMAL EXPANSION	-	6.0 X 10-6 °C
ASTM C373	WATER ABSORPTION	MAXIMUM 0.5%	≤ 0.08 %
ASTM C424	CRAZING RESISTANCE	PASS	PASS
ASTM C484	THERMAL SHOCK	PASS	PASS
ASTM C650	CHEMICAL RESISTANCE	AS REPORTED	CLASS A
ANSI A326.3	DCOF	AS REPORTED	ORGANIC MATTE: ≥0.60 (ID, IW, IW+, EW*, O/G*) VINTAGE & GRAINED: ≥0.75 (ID, IW, IW+, EW*, O/G*) PATINATED: ≥0.42 (ID, IW) SILK: ≥0.55 (ID, IW, IW+, EW*, O/G*) POLISHED: >0.50 DRY (ID) HONED – MARBLE, QUARTZITE AND ONYX INSPIRATION PRODUCTS: >0.45 DRY (ID) HONED – TRAVERTINE, SANDSTONE, LIMESTONE AND TERRAZZO INSPIRATION PRODUCTS: >0.50 DRY (ID)
ASTM C1378	STAIN RESISTANCE	AS REPORTED	CLASS A
ASTM C648	BREAKING STRENGTH	AVERAGE ≥ 275 IBF (1.22 KN) INDIVIDUAL 250 IBF (1.11 KN)	≥310 IBF

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\* DCOF Classifications per ANSI A326.3: (ID): Interior, Dry (IW): Interior, Wet (IW+): Interior, Wet Plus (EW): Exterior, Wet (O/G): Oils/Greases. Factors other than the noted DCOF result must also be taken into consideration. Such factors include, but are not limited to, expected contaminants, drainage, surface texture, effect of structure on the DCOF measurement, number of grout joints, traction-enhancing features, and intended use in addition to the other criteria noted in standard ANSI A326.3.