AETERNA 6 MM & 12 MM TECHNICAL INFORMATION

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	ANATOLIA VALUES 12 MM
DIMENSIONS AND SURFACE QUALITY	LENGTH AND WIDTH	EN ISO 10545-2	N≥ 15 CM; ± %0.6, ± 2 MM	± 0.1%	NON-RECTIFIED
	THICKNESS		N≥ 15 CM; ± 5%, ± 0.5 MM	± 0.2 MM	± 0.2 MM
	RECTANGULARITY		N≥ 15 CM; ± 0.5%, ± 2.0 MM	± 0.05%	NON-RECTIFIED
	STRAIGHTNESS OF SIDES		N≥ 15 CM; ± 0.5%, ± 1.5 MM	± 0.05%	NON-RECTIFIED
	SURFACE FLATNESS; CENTRE CURVATURE, EDGE CURVATURE, WARPAGE		N≥ 15 CM; ± 0.5%, ± 2.0 MM	± 0.2%	± 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	≥ 5400 N
MODULUS OF RUPTURE (N/MM^2)			R ≥ 35 N / MM^2	52 N / MM^2	50 N / MM^2
WATER ABSORPTION		EN ISO 10545-3	≤ 0.5%	< 0.08 %	< 0.08 %
LINEAR THERMAL EXPANSION		EN ISO 10545-8	DECLARED VALUE	6.0 X 10-6 °C	6.0 X 10-6 °C
IMPACT RESISTANCE		EN ISO 10545-5	DECLARED VALUE	0.83	0.85
ABRASION RESISTANCE		EN ISO 10545-6	≤175 MM^3	ORGANIC MATTE, VINTAGE, GRAINED, PATINATED: ≤ 120 MM^3 SILK, POLISHED, HONED: ≤140 MM^3	ORGANIC MATTE, VINTAGE, GRAINED, PATINATED, SATIN: ≤ 120 MM^3 SILK, POLISHED, HONED: ≤140 MM^3
RESISTANCE TO THERMAL SHOCK		EN ISO 10545-9	RESISTANT	RESISTANT	RESISTANT
FROST RESISTANCE		EN ISO 10545-12	RESISTANT	RESISTANT	RESISTANT
RESISTANCE TO CHEMICALS		EN ISO 10545-13	MINIMUM CLASS B	ORGANIC MATTE, VINTAGE, GRAINED, PATINATED, SILK : CLASS A HONED, POLISHED: MINIMUM CLASS B	ORGANIC MATTE, VINTAGE, GRAINED, PATINATED, SATIN SILK : CLASS A HONED, POLISHED: MINIMUM CLASS B
RESISTANCE TO STAINING		EN ISO 10545-14	GL: MINIMUM 3 UGL: DECLARED VALUE	ORGANIC MATTE, VINTAGE, GRAINED, PATINATED, SILK: CLASS 5 POLISHED, HONED: CLASS 4	ORGANIC MATTE, VINTAGE, GRAINED, PATINATED, SATIN, SILK: CLASS 5 POLISHED, HONED: CLASS 4

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.

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

TECHNICAL CHARACTERISTICS		ANSI 137.1- REQUIRED VALUES	ANATOLIA DECLARED VALUES 6 MM	ANATOLIA DECLARED VALUES 12 MM
ASTM C499	CALIBER RANGE (VARIATION FROM AVERAGE FACIAL DIMENSION OF SAMPLE)	± 0.25% OR ± 0.03 IN (± 0.8 MM)	0.10%	NON-RECTIFIED
ASTM C499	THICKNESS	RANGE: 0.040 IN (1.02 MM)	± 0.2 MM	± 0.2 MM
ASTM C485	WARPAGE DIAGONAL	± 0.4 % OR ± 0.07 IN (± 1.8 MM)	± 0.05%	NON-RECTIFIED
ASTM C485	WARPAGE EDGE	± 0.4% OR ± 0.05 IN (± 1.3 MM) OR ±1.8 MM	± 0.05%	NON-RECTIFIED
ASTM C502	WEDGING	± 0.25% OR ± 0.03 IN (± 0.8 MM)	± 0.05%	NON-RECTIFIED
ASTM C1026	RESISTANCE TO FREEZE-THAW CYCLING	-	NOT AFFECTED	NOT AFFECTED
ASTM C1243	DEEP ABRASION	AS REPORTED	ORGANIC MATTE, VINTAGE, GRAINED, PATINATED: ≤ 120 MM^3 SILK, POLISHED, HONED: ≤140 MM^3	ORGANIC MATTE, VINTAGE, GRAINED, PATINATED, SATIN: ≤ 120 MM^3 SILK, POLISHED, HONED: ≤140 MM^3
ASTM C373	BOND STRENGTH	≥ 50 PSI (0.34 MPA)	310 PSI	310 PSI
ASTM C372	LINEAR THERMAL EXPANSION	-	6.0 X 10-6 °C	6.0 X 10-6 °C
ASTM C373	WATER ABSORPTION	MAXIMUM 0.5%	≤ 0.08 %	≤ 0.08 %
ASTM C424	CRAZING RESISTANCE	PASS	PASS	PASS
ASTM C484	THERMAL SHOCK	PASS	PASS	PASS
ASTM C650	CHEMICAL RESISTANCE	AS REPORTED	CLASS A	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: >0.45 DRY (ID) – MARBLE, QUARTZITE AND ONYX INSPIRATION PRODUCTS >0.50 DRY (ID) – TRAVERTINE, SANDSTONE, LIMESTONE AND TERRAZZO INSPIRATION PRODUCTS	ORGANIC MATTE: ≥0.60 (ID, IW, IW+, EW*, O/G*) VINTAGE & GRAINED: ≥0.75 (ID, IW, IW+, EW*, O/G*) PATINATED & SATIN: ≥0.42 (ID, IW) SILK: ≥0.55 (ID, IW, IW+, EW*, O/G*) POLISHED: >0.50 DRY (ID) HONED: >0.45 DRY (ID) – MARBLE, QUARTZITE AND ONYX INSPIRATION PRODUCTS >0.50 DRY (ID) – TRAVERTINE, SANDSTONE, LIMESTONE AND TERRAZZO INSPIRATION PRODUCTS
ASTM C1378	STAIN RESISTANCE	AS REPORTED	CLASS A	CLASS A
ASTM C648	BREAKING STRENGTH	AVERAGE ≥ 275 IBF (1.22 KN) INDIVIDUAL 250 IBF (1.11 KN)	≥310 IBF	≥1210 IBF

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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.
* 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.