

# ALLBLACK

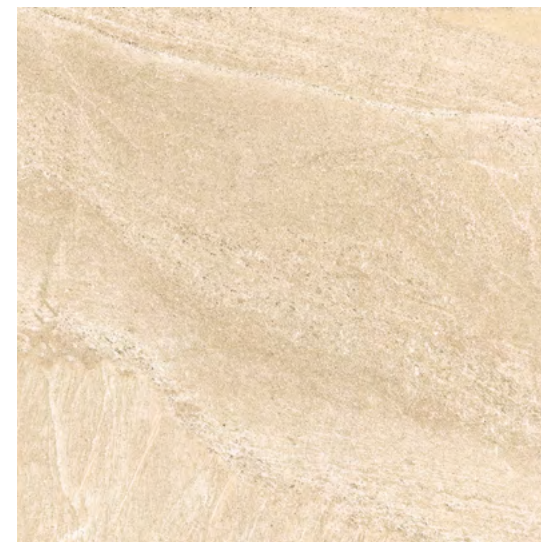
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INTENSE SHADE

  
**NovaBell**<sup>®</sup>  
Ceramiche Gruppo Bellei







## Beige

ALK 40RT

600 x 600mm  
23" <sup>5</sup>/<sub>8</sub> x 23" <sup>5</sup>/<sub>8</sub>



## Bianco

ALK 80RT

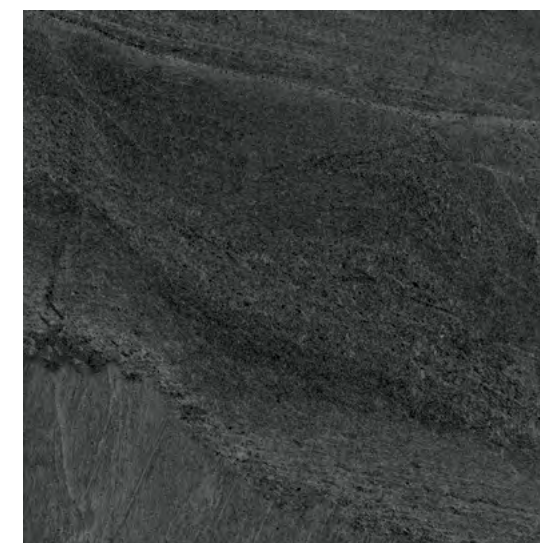
600 x 600mm  
23" <sup>5</sup>/<sub>8</sub> x 23" <sup>5</sup>/<sub>8</sub>



## Antracite

ALK 20RT

600 x 600mm  
23" <sup>5</sup>/<sub>8</sub> x 23" <sup>5</sup>/<sub>8</sub>



## Nero

ALK 90RT

600 x 600mm  
23" <sup>5</sup>/<sub>8</sub> x 23" <sup>5</sup>/<sub>8</sub>






Antracite



Technical features

The International reference standards : ANSI - ASTM **NATURALE**

Characteristics and Test methods 	Requirements ANSI A 137.1	Our general values
Determination of water absorption - (ASTM C 373)	Average value E <sub>b</sub> ≤ 0,5 %	Average value ≤ <b>0,06</b> %
<b>Classification</b>	<b>Definition § 3.0</b>	<b>Porcelain tiles</b>
		<b>Physical properties</b>
Breaking strenght - (ASTM C 648)	Average ≥ 250 lbf (1.11 kN) Individual ≥ 225 lbf (1.00 kN)	Complies
Visible abrasion - (ASTM C 1027)	As reported	Class 0 - 5
Raccomanded use	Novabell criterion (see Annex N - ISO 13006 / EN 14411)	<b>Class 4</b>
Thermal shock resistance (ASTM C 428)	Pass	Complies
Crazing resistance (ASTM C 424)	Pass	Complies
Resistance to freeze/thaw cycling (ASTM C 1026)	As reported	Resistant
<b>DCOF Resistance</b> (ANSI A 137.1 Section 9.6)	≥ 0.42 <sup>(1)</sup>	DCOF ≥ 0.42
Bond strength (ASTM C 482)	≥ 50 psi (0.34 MPa)	> 1 MPa
Color Uniformity (ASTM C 609 and ANSI A 137.1 Section 9.3) <sup>(2)</sup>	V0 – 3 Judds	See the specific section
		<b>Chemical properties</b>
Chemical resistance (ASTM C 650)	As reported	Resistant
Stain resistance (ASTM C 1378)	As reported	Resistant
		<b>Dimensions - Calibrated tiles</b>
Dimensions - (ASTM C 499) - (ASTM C 485) - (ASTM C 502)	See ANSI A 137.1 - Tab.10	Complies
		<b>Dimensions - Rectified tiles</b>
Dimensions - (ASTM C 499) - (ASTM C 485) - (ASTM C 502)	See ANSI A 137.1 - Tab.10	Complies
Scrath hardenss of surface according to Mohs'	ex BS 6431-13 / ex EN 101	≥ 5

(1) For level interior spaces expected to be walked upon when wet - (2) For V0 tiles only




ALL BLACK NATURALE

Use the QR CODE to download data sheets

Technical features

The International reference standards : ANSI - ASTM **NATURALE**

Characteristics and Test methods 	Requirements EN 14411 <sup>(1)</sup> – G / ISO 13006 <sup>(2)</sup> - G	Our general values
Determination of water absorption - (ISO 10545-3)	Average value E <sub>b</sub> ≤ 0,5 % / Individual maximum 0,6%	≤ <b>0,06</b> % Average value and individual maximum
<b>Classification</b>	<b>Definition § 3.2 and § 3.7</b>	<b>BI<sub>a</sub> – Porcelain tiles</b>
		<b>Physical properties</b>
Modulus of rupture - (ISO 10545-4)	Average ≥ 35 N/mm <sup>2</sup>	≥ 35 N/mm2
Breaking strength - (ISO 10545-4)	Average ≥ 1300 N for thickness ≥ 7,5 mm Average ≥ 700 N for thickness < 7,5 mm	Complies
Resistance to surface abrasion - (ISO 10545-7)	Abrasion class and cycles passed	Class 0 - 5
Resistance to deep abrasion - (ISO 10545 - 6)	Max volume abraded < 175 / mm3	< 175 / mm3
Raccomanded use	Novabell criterion (see Annex N - ISO 13006 / EN 14411)	<b>Class 4</b>
Coefficient of linear thermal expansion (ISO 10545-8)	Declared value <sup>(1)</sup> / Test method available <sup>(2)</sup>	< 7,1 x 10 <sup>-6</sup> °C <sup>-1</sup>
Thermal shock resistance (ISO 10545-9)	Pass according to EN ISO 10545-1 <sup>(1)</sup> / Test method available <sup>(2)</sup>	Complies
Crazing resistance (ISO 10545-11)	Pass according to EN ISO 10545-1 <sup>(1)</sup> / Required <sup>(2)</sup>	Complies
Frost resistance (ISO 10545-12)	Pass according to EN ISO 10545-1 <sup>(1)</sup> / Required <sup>(2)</sup>	Complies
Moisture expansion (ISO 10545-10)	Declared value <sup>(1)</sup> / Test method available <sup>(2)</sup>	≤ 0,2 mm/m
Small colour differences (ISO 10545-16)	ΔE <sub>cmc</sub> < 0,75 <sup>(1)</sup>	If agreed
Impact resistance - (ISO 10545-5)	Declared value <sup>(1)</sup> /Test method available <sup>(2)</sup>	COR > 0,75
Reaction to fire	Class A1 or A1 <sub>FL</sub> <sup>(1)</sup>	<b>A1<sub>FL</sub></b> Classified Without Testing (CWT) – 96/603
		<b>Chemical properties</b>
Chemical resistance -(GL) (ISO 10545-13)		
Resistance to low and high concentrations of acids and alkalis	Declared value <sup>(1)</sup> / Manufacturer is to state classification <sup>(2)</sup>	Resistant (see "Maintenance and care" section)
Resistance to household chemicals and swimming pool salts	Minimum class B	G A
Resistance to staining (ISO 10545-14)	Minimum class 3	5 (see "Maintenance and care" section)
Release of dangerous substances (ISO 10545-15)	Declared value <sup>(1)</sup> / Test method available <sup>(2)</sup>	Pb < 0,1 / Cd < 0,01 mg/dm <sup>2</sup>
		<b>Dimensions and surface quality</b>
Dimensions - (ISO 10545-2)	See ANNEX G	Complies
Surface quality - (ISO 10545-2 § 7)	<b>A minimum of 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles</b>	Complies

(1) Requirements according to EN 14411	(2) Requirements according to ISO 13006	
Test methods	Requirements and references	Our general values
Determination of anti-slip properties – Workrooms and fields of activities with raised slip danger, walking method-Ramp test ( <b>DIN 51130</b> )-Germany	BGR / ASR From R9 to R13	R 10
Determination of anti – slip properties. Wet-loaded barefoot areas – Walking method – Ramp test ( <b>DIN 51097</b> ) - Germany	GUV-I 8527 A – B – C	A + B
Dynamic Coefficient Friction wet and dry condition ( <b>BCR-ex BCRA</b> ) Italy	DM n. 236 / 1989 μ > 0,40	μ > 0,40
Scrath hardenss of surface according to Mohs'	ex BS 6431-13 / ex EN 101	≥ 5

The English language technical specifcation for each collection can be download from **www.novabell.it**

