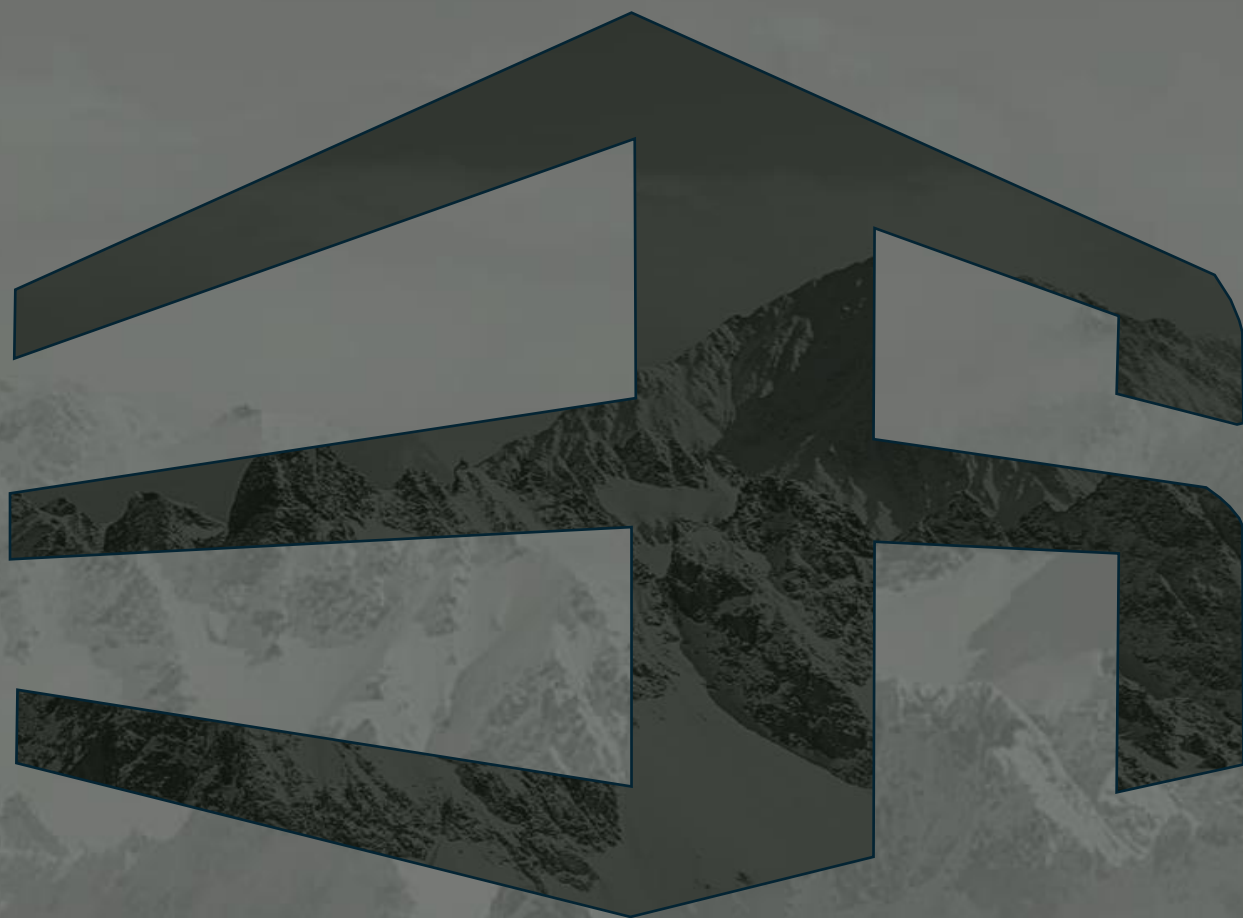




TECHNICAL MANUAL



Since 1999



ROCKTON BRIEFING 01

ADVANTAGES 01

ROCKTON TEST REPORT 02

ROCKTON TECHNICAL SPECIFICATIONS 03

ROCKTON BRIEFING 01

Rockton is an ultra-compact material created using a 25,000-ton press (over 450 kg/cm²) and a sintering process at approximately 1,200°C. It comes in useful dimensions of 3,200 x 1,600 mm and thicknesses of 20, 12, and 6 mm.

This material is ideal for outdoor applications, including facades, even in harsh environments exposed to petrol, diesel, and various solvents. Rockton can be easily cleaned with pressurized water, commercial cleaning products, or, for persistent stains, specific chemical agents such as sulphuric acid, bleach, hydrogen peroxide, acetone, and caustic soda.

ADVANTAGES 01

UV RESISTANT	Rockton is impervious to the sun's UV radiation, making it perfect for outdoor applications.
HEAT RESISTANT	Fire and heat resistant, Rockton is perfect for all kitchen applications.
ANTI-MICROBIAL AND FOOD SAFE	Made from pure natural materials, Rockton is safe for direct contact with food.
LOW WATER ABSORPTION	Our ultra hygienic non-porous technology creates a low maintenance surface.
DIMENSIONAL STABILITY	Rockton has a very low thermal coefficient, so it will not change with extreme temperature fluctuations.
STAIN RESISTANT	Rockton highly resistant to aggressive chemical products used in kitchens and bathrooms.
EXCEPTIONAL MECHANICAL DURABILITY	Rockton is hard and resistant to damage during everyday use.
SCRATCH RESISTANT	Rockton has a super hard surface that can with stand normal wear and tear with ease.



Name of Sample	Rockton Porcelain Slab	Nominal Size (N)	3200mm x 1600mm
Nature of Surface	Glazed (GL)	Work Size	3200mm x 1600mm x 12mm 3200mm x 1600mm x 20mm
Group	B I a	Intended Use	Floorings and wall finishes Interior and Exterior
Mark of Samples	AR6780	Quantity	30 Pieces
Applicant	ADAM STONE PRODUCTS LTD.	Address of Applicant	11591 Bridgeport Road Richmond, BC, V6X 1T5
Source of Samples	Samples selected by applicant		
Test Standard	EN 14411		
Conclusion of Test	The results conform to the requirement of standard EN 14411 with respect to the test items.		

Dimensions and surface quality / Physical properties

PROPERTIES	STANDARD	DETERMINATION	REQUIREMENTS	RESULTS
Length	EN ISO 10545-2	The deviation, of the average size for each porcelain (2 side) from the work size	$\pm 0.6\%$	- 0.01% ~ 0
			$\pm 2.0\text{mm}$	- 0.3mm ~ 0.1mm
Width	EN ISO 10545-2	The deviation, of the average size for each porcelain (2 side) from the work size	$\pm 0.6\%$	- 0.02% ~ 0.01%
			$\pm 2.0\text{mm}$	- 0.4mm ~ 0.1mm
Thickness	EN ISO 10545-2	The permissible deviation, of the average thickness for each porcelain from the work size thickness	$\pm 5\%$	+ 1.4% ~ + 2.2%
			$\pm 0.5\text{mm}$	+0.3mm~+0.4mm
Water absorption	EN ISO 10545-3	Percent mass fraction	$E \leq 0.5\%$	0.04%
			Individual maximum 0.6%	0.03% ~ 0.05%
Breaking strength, in N	EN ISO 10545-4	Breaking strength	≥ 1300	15686
Modulus of rupture, in N/mm ²	EN ISO 10545-4	Flexural strength	Minimum 35	55.5
			Individual minimum 32	54.6 ~ 56.4
Abrasion resistance	EN ISO 10545-7	Resistance to surface abrasion of glazed porcelain intended for use on floors	Report abrasion class	Class 4
			Report cycles passed	2100
Thermal shock resistance	EN ISO 10545-9	Expansion between 30 - 100 °C	Pass	Fully resistance
Forst resistance	EN ISO 10545-12	Forst resistance	Pass	Fully resistance
Slipperiness	DIN 51130	Slipperiness	11 ~ 70 PTV	a ges < 5 °
Pendulum test value, slider ⁹⁶	EN 16165	for applications in dry and wet conditions	R11	Dry: 52
				Wet: 11
Reaction to fire	CWT	Reaction to fire	Class A1 or A1 _{FL}	Used for wall Class A1
				Used for floorings Class A1 _{fl}

Dimensions and surface quality / Physical properties

PROPERTIES	STANDARD	DETERMINATION	REQUIREMENTS	RESULTS
Length	EN ISO 10545-2	The deviation, of the average size for each porcelain (2 side) from the work size	$\pm 0.6\%$	- 0.01% ~ 0
			$\pm 2.0\text{mm}$	- 0.2mm ~ 0
Width	EN ISO 10545-2	The deviation, of the average size for each porcelain (2 side) from the work size	$\pm 0.6\%$	- 0.03% ~ 0.01%
			$\pm 2.0\text{mm}$	- 0.4mm ~ 0.2mm
Thickness	EN ISO 10545-2	The permissible deviation, of the average thickness for each porcelain from the work size thickness	$\pm 5\%$	+ 0.3% ~ + 2.0%
			$\pm 0.5\text{mm}$	0 ~ + 0.2mm
Water absorption	EN ISO 10545-3	Percent mass fraction	$E \leq 0.5\%$	0.07%
			Individual maximum 0.6%	0.06% ~ 0.08%
Breaking strength, in N	EN ISO 10545-4	Breaking strength	≥ 1300	5336
Modulus of rupture, in N/mm ²	EN ISO 10545-4	Flexural strength	Minimum 35	56.4
			Individual minimum 32	55.4 ~ 58.0
Abrasion resistance	EN ISO 10545-7	Resistance to surface abrasion of glazed porcelain intended for use on floors	Report abrasion class	Class 4
			Report cycles passed	2100
Thermal shock resistance	EN ISO 10545-9	Expansion between 30 - 100 °C	Pass	Fully resistance
Forst resistance	EN ISO 10545-12	Forst resistance	Pass	Fully resistance
Slipperiness	DIN 51130	Slipperiness	11 ~ 70 PTV	a ges < 5 °
Pendulum test value, slider ⁹⁶	EN 16165	for applications in dry and wet conditions	R11	Dry: 53
				Wet: 11
Reaction to fire	CWT	Reaction to fire	Class A1 or A1 _{FL}	Used for wall Class A1
				Used for floorings Class A1 _{fl}

Chemical properties

PROPERTIES	STANDARD	DETERMINATION	REQUIREMENTS	RESULTS
Resistance to staining	EN ISO 10545-14	Green agent	Minimum Class 3	Class 5
		Red agent	Minimum Class 3	Class 5
		Iodine	Minimum Class 3	Class 5
		Olive oil	Minimum Class 3	Class 5
Resistance to chemicals	EN ISO 10545-13	Ammonium chloride 100g/L	Minimum Class B	Class A
		Pool salts / Bleach	Minimum Class B	Class A
		Hydrochloric acid 3% (v/v)	Pass	LA (no damage)
		Citric acid 100g/L	Pass	LA (no damage)
		Potassium hydroxide 30g/L	Pass	LA (no damage)
		Hydrochloric acid 18% (v/v)	Pass	HA (no damage)
		Lactic acid 5% (v/v)	Pass	HA (no damage)
		Potassium hydroxide 100g/L	Pass	HA (no damage)

End of test report

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