

## EXCESS COLLECTION

### PRODUCT CERTIFICATE

Finished Product Laboratory

### ISO 13006-10545

Equivalent to the Brazilian Norm NBR 15463/NBR 13818

Dry-pressed ceramic tiles with low water absorption  $E_b \leq 0,5\%$

**PRODUCT:** PORCELAIN TILE

**SIZE:** 120X120

Characteristics	Test as per	Results
<b>Physical</b>		
Water Absorption (%E)	ISO 10545-3 NBR 13818 - annex: B ( $E \leq 0,5\%$ )	0,5
Modulus of Breaking Strength (MPa)	ISO 10545-4 NBR 13818 - annex: C (NBR 15463 Average: $\geq 37$ )	37
Breaking Load (N)	ISO 10545-4 NBR 13818 - annex: C (NBR 15463 Average: $\geq 900$ )	2500
Moisture Expansion (mm/m)	ISO 10545-10 NBR 13818 - annex: J	0,1
Resistance to Deep Abrasion (mm <sup>3</sup> )	NA	NA
Crazing Resistance	ISO 10545-11 NBR 13818 - annex: F	Resist
Resistance to Thermal Shock	ISO 10545-9 NBR 13818 - annex: L	Resist
<b>Coefficient of Friction</b>		
Dry Surface	NBR 13818 - annex: N Method: TORTUS III (Value $\geq 0,4$ )	0,4
Wet Surface		0,3
<b>Local of Use</b>		
Cl - Commercial Light   RE - Residential		

<b>Chemical</b>			
Resistance to Stains		SAVANNA 120X120 Polish	BIARRITZ 120X120 Polish
		Green staining agent in light oil	
Red staining agent in light oil	ISO 10545-14 NBR 13818 - annex: G (Minimum: 3)	4	5
Iodine		3	5
Olive Oil		5	5
<b>Chemical Resistance</b>			
Hydrochloric Acid 3% (v/v)	ISO 10545-13 NBR 13818 - annex: H (Minimum: B)	A	A
Potassium Hydroxide 30g/L		A	A
Citric Acid 100g/L		A	A
Lactic Acid 5% (v/v)		A	A
Hydrochloric Acid 18% (v/v)		A	A
Potassium Hydroxide 100g/L		A	B
Ammonium Chloride 100g/L		A	A
Sodium Hypochloride 20mg/L		A	A

TORONTO  
115 Carnarvon Street  
Toronto, ON M6M 3C9  
T 416 413 9008  
F 416 413 9652

TROY  
1700 Stutz Drive, Ste 92 & 94  
Troy, MI 48084  
T 248 643 6520  
F 248 643 6523

Please note, all specifications have been supplied by the manufacturer and are subject to change.

Email: mail@cercantile.com  
Website: www.cercantile.com

# BELLO EXCESS AVORIO DI BRESCIA COLLECTION

**PRODUCT:** AVORIO DI BRESCIA 120X120  
Polish Rectified

**TIPOLOGY:** PORCELAIN TILE

**SIZE:** 120X120



Characteristics	Test as per	Results
<b>Physical</b>		
Water Absorption (%E)	ISO 10545-3 NBR 13818 - annex: B (E ≤ 0,5%)	0,5
Modulus of Breaking Strength (MPa)	ISO 10545-4 NBR 13818 - annex: C (NBR 15463 Average: ≥ 37)	37
Breaking Load (N)	ISO 10545-4 NBR 13818 - annex: C (NBR 15463 Average: ≥ 1500)	1500
Moisture Expansion (mm/m)	ISO 10545- 10 NBR 13818 - annex: J	0,1
Crazing Resistance	ISO 10545-11 NBR 13818 - annex: F	Resist
Resistance to Thermal Shock	ISO 10545-9 NBR 13818 - annex: L	Resist
<b>Chemical</b>		
<b>Resistance to Stains</b>		
Green staining agent in light oil		3
Red staining agent in light oil		3
Iodine	ISO 10545-14 NBR 13818 - annex: G (Minimum: 3)	3
Olive Oil		3
<b>Chemical Resistance</b>		
Hydrochloric Acid 3% (v/v)		B
Potassium Hydroxide 30g/L		B
Citric Acid 100g/L		B
Lactic Acid 5% (v/v)		B
Hydrochloric Acid 18% (v/v)	ISO 10545-13 NBR 13818 - annex: H (Minimum: B)	B
Potassium Hydroxide 100g/L		B
Ammonium Chloride 100g/L		B
Sodium Hypochloride 20mg/L		B
<b>Coefficient of Friction</b>		
Dry Surface	NBR 13818 - annex: N Method: TORTUS III ( Value ≥ 0,4 )	0,3
Wet Surface		0,3
<b>Local of Use</b>		
Cl - Commercial Light   RE - Residential   FA - Facade		

## BELLO EXCESS ATLANTICO COLLECTION

**PRODUCT:** ATLANTICO 120X120 Polish  
Rectified

**TIPOLOGY:** PORCELAIN TILE

**SIZE:** 120X120



Characteristics	Test as per	Results
<b>Physical</b>		
Water Absorption (%E)	ISO 10545-3 NBR 13818 - annex: B (E ≤ 0,5%)	0,5
Modulus of Breaking Strength (MPa)	ISO 10545-4 NBR 13818 - annex: C (NBR 15463 Average: ≥ 37)	37
Breaking Load (N)	ISO 10545-4 NBR 13818 - annex: C (NBR 15463 Average: ≥ 1500)	2000
Moisture Expansion (mm/m)	ISO 10545- 10 NBR 13818 - annex: J	0,1
Crazing Resistance	ISO 10545-11 NBR 13818 - annex: F	Resist
Frost Resistance	ISO 10545-12 NBR 13818 - annex: M	Resist
Resistance to Thermal Shock	ISO 10545-9 NBR 13818 - annex: L	Resist
<b>Chemical</b>		
<b>Resistance to Stains</b>		
Green staining agent in light oil		5
Red staining agent in light oil		5
Iodine	ISO 10545-14 NBR 13818 - annex: G (Minimum: 3)	3
Olive Oil		5
<b>Chemical Resistance</b>		
Hydrochloric Acid 3% (v/v)		B
Potassium Hydroxide 30g/L		A
Citric Acid 100g/L		A
Lactic Acid 5% (v/v)		B
Hydrochloric Acid 18% (v/v)	ISO 10545-13 NBR 13818 - annex: H (Minimum: B)	B
Potassium Hydroxide 100g/L		B
Ammonium Chloride 100g/L		A
Sodium Hypochloride 20mg/L		A
<b>Coefficient of Friction</b>		
Dry Surface	NBR 13818 - annex: N Method: TORTUS III ( Value ≥ 0,4 )	0,4
Wet Surface		0,3
<b>Local of Use</b>		
Cl - Commercial Light   RE - Residential   FA - Facade		

# BELLO MONT BLANC COLLECTION

**PRODUCT:** MONT BLANC 120X120  
Rectified

**TIPOLOGY:** PORCELAIN TILE

**SIZE:** 120X120



Characteristics	Test as per	Results	
		Natural	Polish
<b>Physical</b>			
Water Absorption (%E)	ISO 10545-3 NBR 13818 - annex: B (E ≤ 0,5%)	0,5	0,5
Modulus of Breaking Strength (MPa)	ISO 10545-4 NBR 13818 - annex: C (NBR 15463 Average: ≥ 37)	37	37
Breaking Load (N)	ISO 10545-4 NBR 13818 - annex: C (NBR 15463 Average: ≥ 1500)	1800	1500
Moisture Expansion (mm/m)	ISO 10545- 10 NBR 13818 - annex: J	0,1	0,1
Crazing Resistance	ISO 10545-11 NBR 13818 - annex: F	Resist	Resist
Frost Resistance	ISO 10545-12 NBR 13818 - annex: M	Resist	Resist
Resistance to Thermal Shock	ISO 10545-9 NBR 13818 - annex: L	Resist	Resist

## Chemical

### Resistance to Stains

Green staining agent in light oil		5	5
Red staining agent in light oil		4	4
Iodine	ISO 10545-14 NBR 13818 - annex: G (Minimum: 3)	5	3
Olive Oil		5	5

### Chemical Resistance

Hydrochloric Acid 3% (v/v)		B	B
Potassium Hydroxide 30g/L		A	B
Citric Acid 100g/L		A	B
Lactic Acid 5% (v/v)		A	B
Hydrochloric Acid 18% (v/v)	ISO 10545-13 NBR 13818 - annex: H (Minimum: B)	B	B
Potassium Hydroxide 100g/L		A	A
Ammonium Chloride 100g/L		A	B
Sodium Hypochloride 20mg/L		A	A

### Coefficient of Friction Natural

Dry Surface	NBR 13818 - annex: N Method: TORTUS III ( Value ≥ 0,4 )	0,5
Wet Surface		0,4
Wet Surface	ANSI A137. Section 9,6 (Minimum Average Value 0,42)	0,43

### Local of Use Natural

Cl - Commercial Light | RE - Residential | FA - Facade

### Coefficient of Friction Polish

Dry Surface	NBR 13818 - annex: N Method: TORTUS III ( Value ≥ 0,4 )	0,3
Wet Surface		0,30
Wet Surface	ANSI A137. Section 9,6 (Minimum Average Value 0,42)	0,4

### Local of Use Polish

Cl - Commercial Light | RE - Residential | FA - Facade

TORONTO  
115 Carnarvon Street  
Toronto, ON M6M 3C9  
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