



ENVIRONMENT

Line: **CERAMIC TILE** (Barranquilla)
Efficient use of resources



ENVIRONMENTAL DATA SHEET

Manufacturer:

Alfacer del Caribe S.A.
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We care about our planet, taking into consideration the current environmental problems. We operate under a sustainability strategy, which guarantees a balance between economic growths, reduction of environmental impact and social welfare.

Our ceramic tiles have superior resistance conditions to the established standards

Product	Format cm x cm	Thickness mm	Absorption Group	Flexural Strength	Impact Resistance vs. Norm	Abrasion Resistance	Cracking Resistance	Acids and Alkalis Resistance	Stain Resistance (Min. class 3)
Ceramic	43 X 43	7,4	Blla	173%	161%	The products evaluated are found within the established IEP by the manufacturer	Resistant	Resistant GLA* GA*	Class 5
Ceramic	51 X 51	7,8	Blla	132%	161%				

RESISTANCE TO FLEXION Test method ISO 10545 ISO 13006 specifications

RESISTANCE TO BREAKAGE Test method ISO 10545 ISO 13006 specifications

RESISTANCE TO SUPERFICIAL ABRASION AND DEEP ABRASION STANDARD ISO 10545-6 10545-7 ISO 13006 Specifications

RESISTANCE TO FOURTH NORM ISO 10545-11 ISO 13006 Specifications

RESISTANCE TO CHEMICAL ATTACK NORM ISO 10545-13 ISO 13006 Specifications

STAIN RESISTANCE STANDARD ISO 10545-14 Minimum class 3 ISO 13006 specifications

* GA: No visible effects (NTC 4321-13 TEST METHOD TO DETERMINE CHEMICAL RESISTANCE).

* GLA: No visible effects (NTC 4321-13 TEST METHOD TO DETERMINE CHEMICAL RESISTANCE)..

Durable materials are more environmentally attractive, since by not having to be replaced frequently they allow the reduction of operating costs and environmental impact.

Variation in the consumption of non-renewable resources for the manufacture of ceramics 2016 vs 2014

Product	Raw Material Variation
Ceramic	-2%

We have continually improve our processes of manufacture, thus reducing the use of non renewable resources.



Our ceramics can be recycled or disposed as inert construction waste, allowing to reduce the environmental impact.

SUSTAINABLE PRODUCTION

In our constant fight against climate change, we continue to innovate and make our manufacturing processes more environmentally sustainable, to provide your projects with ceramic tiles with low embedded energy and with a reduced water footprint.

Energy Savings in the Ceramic Manufacturing process 2016 vs 2014

37% Waters consumption Savings

1% Energy consumption Savings

2% Thermal Energy Savings



Our manufacturing process reuses 5% of recovered water.

100% of the non-used finished product is recycled and reused again.

In the manufacture of our ceramic tiles we consume 0.204 liters of drinking water, 0.106 KWh of electricity and 3,062MJ of thermal energy per kilogram.



SOCIAL RESPONSIBILITY

We design and build well-being for society, renewing the lives of people through inspirational spaces.



Education



Habitability



We focus in improving life conditions for vulnerable people in the communities where we operate

Aliados:



Shared Valued Initiatives + employment inclusion and Economic strengthening

