



European
Ceramics

SENSI ETNA RANGE

Product Name: SENSI ETNA - **VARIOUS COLOUR/FINISHES/SIZE/THICKNESS**

Product Identifier: Refer to tile name and product code on paperwork/packaging

Product Description: This is a basalt natural stone and with a triple fired glaze

Country Of Origin: Italy

Building Code Obligations

Code Clauses:

B2 – Durability

B2.3.1

C3 – Fire affecting areas beyond the
source

D1 – Access routes

D1.3.3

E3 – Internal moisture

E3.3.2, 3.3.3, 3.3.4

G3 – Food preparation and prevention of
contamination

G3.3.2

G6 – Airborne and Impact sound

G6.3.1



Note – this building product is not subject to a warning/ban under section 26 of the Building Act 2004

Manufacturer Details:

European Ceramics Approved

BPIR COMPLIANT

Importer Details:

European Ceramic Tiles Ltd

Address: 7A Cowley Place, Rosedale, AKL 0632

NZBN: 9429037294571

Website: euroceramics.co.nz

Scope	Use
B2 Durability	See below suitability table
C3 Fire	The Building Code relating to fire ratings regulation & standards become mandatory from April 2013, establishing the list of products belonging to Classes A 'No Contribution to Fire' provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC.
D1 Access Routes	Refer to slip resistance documentation for all Access routes classifications D1/AS1 for above range.
E3 Internal Moisture	Under E3 Tiles installed over a waterproof membrane using a nonporous grouting system, are an acceptable solution.
G3 Food Preparation & Prevention from Contamination	As an impervious and easy to clean surface, this range complies.
G6 Airborne & Impact Sound	If required, tiles can form part of an acoustic system to comply with IIC & STC in conjunction with an approved third-party system.

<i>Suitability *</i>	<i>Residential</i>	<i>Light Commercial</i>	<i>Commercial</i>
Indoor Floor			
Indoor Walls	*	*	*
Outdoor Cladding			
Frost Resistant			
Swimming Pool Submerged			
Swimming Pool Surround			
Paving/External			
Over Underfloor Heating			
Kitchen wall	*	*	*
Within 1.5m of a Plumbing Fixture or Fitting	*	*	*

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Building Code References

B2 – Durability

Compliance with B2 Durability is about providing evidence that the product will meet the relevant durability life in the context of the environment in which it will be located.

The building code sets out the framework for establishing the relevant durability life of building elements based on a number of criteria. B2/AS1 provides a decision tree to establish the relevant durability for common building materials in different circumstances.

Having determined the durability life of the product, the next step is to determine if the product, when exposed to the environment, will continue to perform for the relevant period. A key tool which a product supplier can consider in claiming compliance is limiting the environment in which the product will be exposed to (e.g. a ferrous material used in an indoor environment will last longer than it would when exposed to salt spray — in this example it would be appropriate for the supplier to condition the compliance information to use only in indoor environments).

C3 – Fire affecting areas beyond the source

C3 Fire affecting areas beyond the fire source is primarily about ensuring that fire does not spread from a fire in the building (in both vertically and horizontally) and from an adjacent building.

The prime product attribute used is the fire resistance rating (FRR) methodology. In most cases a product is combined with other products to achieve a FRR (e.g. an external wall fire rating may be formed by the combination of the external cladding, thermal insulation and the internal lining).

C/AS1 and C/AS2 set out performance criteria for buildings and in particular the FRR requirements for various types of buildings and parts of buildings. Appendix C of C/AS2 sets out test methods for the building elements involved in spread of fire. Appendix B of C/AS2 sets out performance criteria for sprinkler systems while Appendix A sets out criteria for fire safety systems such as alarms and hydrants.

D1 – Access routes

For D1 access routes, in most cases product-related compliance for access routes is slip resistance for floors and the shapes/locations etc of handrails. The Acceptable Solution for access D1/AS1 and NZS 4121:2001 provide good information on compliance for products on access routes.

E3 – Internal Moisture

E3 Internal Moisture is about ensuring that moisture created within the building does not lead to mould or create damage to adjacent buildings or structural elements in the building in which it is installed.

Prevention of the creation of mould is a combination of temperature, insulation and ventilation. Prevention of water damaging other building elements is mainly about installation details (i.e. sealing joints) as well as impervious products. E3/AS1 provides some useful design details, albeit without much product material information.

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G3 – Food preparation and prevention of contamination

G3 Food preparation and prevention from contamination for a product (such as a kitchen bench) is mainly associated with being easily cleaned and impervious. G3/AS1 provides some general design details for food preparation areas but has no referenced product standards, although the document does state some acceptable materials used for surfaces. Compliance with G3/AS1 is not mandatory but provides a good benchmark for compliance.

G6 – Airborne and Impact Sound

For a product, G6 Airborne and impact sound is generally about systems which are designed to work together to achieve the necessary sound attenuation.

The code itself at G6.3.2 sets a quantifiable performance level: “The Sound Transmission Class of walls, floors and ceilings, shall be no less than 55” and G6.3.2 sets the impact insulation class of floors shall be no less than 55. The Acceptable Solution G6/AS1 sets out the transmission and impact insulation class of common wall systems. G6/VM1 sets out test methodologies where the details do not match those of G6/AS1.

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Technical Information

FORMATI

SIZES

					
FORMATI Sizes	10×40 cm 4"×15 7/8"	20×20 cm 7 7/8"×7 7/8"	10×10 cm 4"×4"		
SPESSORE Thickness	10 mm / 3/8"	20 mm / 3/4"	10 mm / 3/8"	10 mm / 3/8"	20 mm / 3/4"
AVORIO					
 BUGNATO Wall	786055		786067	786061	
 CROSTA Wall		786091			786097
 RIGATINO Wall	786079		786073	786085	
OCRA					
 BUGNATO Wall	786056		786068	786062	
 CROSTA Wall		786092			786098
 RIGATINO Wall	786080		786074	786086	
MATTONE					
 BUGNATO Wall	786057		786069	786063	
 CROSTA Wall		786093			786099
 RIGATINO Wall	786081		786075	786087	

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FORMATI Sizes		10×40 cm 4"×15½"	20×20 cm 7½"×7½"	10×10 cm 4"×4"	
SPESSORE Thickness		10 mm / 3/8"	20 mm / 3/4"	10 mm / 3/8"	20 mm / 3/4"
VERDE					
 BUGNATO Wall	786058		786070	786064	
 CROSTA Wall		786094			786100
 RIGATINO Wall	786082		786076	786088	
BLU					
 BUGNATO Wall	786059		786071	786065	
 CROSTA Wall		786095			786101
 RIGATINO Wall	786083		786077	786089	
CARBONE					
 BUGNATO Wall	786060		786072	786066	
 CROSTA Wall		786096			786102
 RIGATINO Wall	786084		786078	786090	

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MADE IN FLORIM

The pursuit of beauty is part of the human genetic heritage

At Florim, this instinct for creativity merges with passion and meets the most advanced production technology to create a new kind of product. A moral project that is not only beautiful but also environmentally friendly, designed to enhance well-being in personal spaces with a low environmental impact. We have a long story to tell and a strong desire to look forward to a future built on beauty, innovation, and sustainability.

ALTAGAMMA

Italian beauty and style around the world

Aesthetic vocation, cultural heritage, and a strong identity are key elements shared by Florim and Altagamma, the foundation that since 1992 has brought together companies that represent Italian style worldwide. This shared vision led to Florim's induction as a new member in 2022.

The Foundation includes the elite of Italian companies dedicated to the high-end segment - a market that continues to grow globally, where Made in Italy plays a leading role.

Altagamma brings together the most prestigious brands in fashion, design, jewelry, food, hospitality, automotive, and yachting.

CARBONZERO

Florim's Carbon Neutral surfaces

Aligned with our strategy of embracing a business paradigm that benefits the planet, in 2023 we launched CarbonZero: an initiative dedicated to Carbon Neutral surfaces that fully offset the CO₂ emissions produced throughout their manufacturing and lifecycle.

We measure

We have calculated the environmental impact of our surfaces along the product life cycle (*) because we aim to reduce all CO₂ emissions, including those that occur outside.

We reduce

To contain the emissions from our activity, we have reduced the use of natural resources and invested in making the production process more sustainable: up to 100% in terms of water, electricity, and raw waste recovery.

We offset

We promote a positive impact: CarbonZero collections offset all the CO₂ emitted during their life cycle, supporting certified projects that produce clean energy in developing countries. The CarbonZero project combines beauty and design with the positive impact given by CO₂ offsetting (**).

(*) EPD certified data – registration number EPDITALY0462

(**) Offsetting is achieved through the purchase of CER (Certified Emission Reductions) carbon credits on the CDM (Clean Development Mechanism) registry of the UNFCCC (United Nations Framework for Climate Change). For the calculation, a value of 19.05 kg of CO₂-eq / m² with an average density of 21.97 kg/m² was used – this data was calculated starting from the total GWP value (EPD Florim that considers the entire life cycle of the product) integrating maintenance and cleaning activities assuming a lifespan of 60 years. Florim commits annually to monitoring, reducing, and offsetting the greenhouse gas emissions of the CarbonZero Collections.

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THE FIVE ELEMENTS OF OUR SUSTAINABILITY

Water, air, earth, and fire.

We conceive the four natural elements as unique and precious resources because the survival of ecosystems depends on their balance.

Our role is to protect them through daily actions that, when combined, make a difference.

We like to think of people as the "fifth element", a crucial piece in changing the current crisis of our planet through conscious actions and responsible choices. At Florim, our people are ambassadors of a mindful and attentive way of working. They are our DNA, embodying a corporate culture rooted in respect and appreciation, extending to everyone in our community. This commitment to people and the environment is one that Florim takes very seriously—it's written into our bylaws.

Certified



Corporation

We are a Benefit Corporation and have been certified as a B Corp since 2020.

WATER

100%
recycling of
greenware waste

At Florim, all wastewater from the production cycle is 100% reused. Our facilities are equipped with rainwater collection tanks that capture water from precipitation. To optimize water resource usage, we have introduced innovative dry squaring lines that eliminate the need for water in the material rectification process.

AIR

100%
self-production of
the required
electrical energy

We are committed to minimizing emissions generated by our processes and products. We have 127,000 square meters of surfaces covered with photovoltaic systems capable of generating a peak power of 12.3 MWp, along with two cogeneration plants that allow us to self-produce up to 100% of the electricity needed for our Italian facilities. When sunlight is not enough, we purchase electricity exclusively from certified renewable sources.

EARTH

100%
recycling raw
production waste

Our products are made with over 90% high-quality natural raw materials. We recycle 100% of raw production waste and closely monitor our raw material supply chain. Florim products contain up to 60% recycled raw materials, with the percentage varying depending on thickness and collections.

FIRE

100%
certified ISO 9001
for quality, ISO
50001 for energy
management,
and ISO 14001 for
environmental
management

Fire is the element that transforms matter, making ceramic products resistant to moisture, wear, and chemical and atmospheric agents. Our porcelain stoneware is fired at around 1200 degrees, making it a durable, safe, and hygienic material. This quality is backed by numerous product and process certifications.

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Fire Resistance

The building code relating to fire rating regulations and standards requires specifiers to provide documentation such as fire certificates for materials used in construction.

Ceramics are in itself a fire-resistant material, mostly being manufactured at over 1200 degrees Celsius. Testing and providing such certification are therefore not relevant to the Ceramics industry.

Ceramic and Porcelain tiles are an inert material, and therefore non-combustible. They do not release fumes or toxic gases in the event of a fire. Porcelain tiles contain no sealants, waxes or other chemicals that could release VOC's into the environment. Ceramics do not pose a risk of spreading or intensifying a fire therefore there is no testing required as they do not contribute to a fire.

EXTRAORDINARY EFFECTS DURING USE PHASE:

Fire: According to /EN 13501-1:2007+A1:2009/, ceramic tiles can be classified as A1 class of fire resistance rating, because they do not contribute to fire.

It has been demonstrated that the coating of the ceramic tiles, in case of fire, reduces heat on them and thus the risk of collapse.

Water: Ceramic tiles cannot react with water because they are an insoluble material.

For further information on the fire performance characteristics of ceramic/porcelain tiles or natural stone, please refer to the Technical Documents section on euroceramics.co.nz

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