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**Best certified company  
of panels integrated  
in facade systems**



**135.000**

Sqft Production facility

**50**

Years of Experience

**100%**

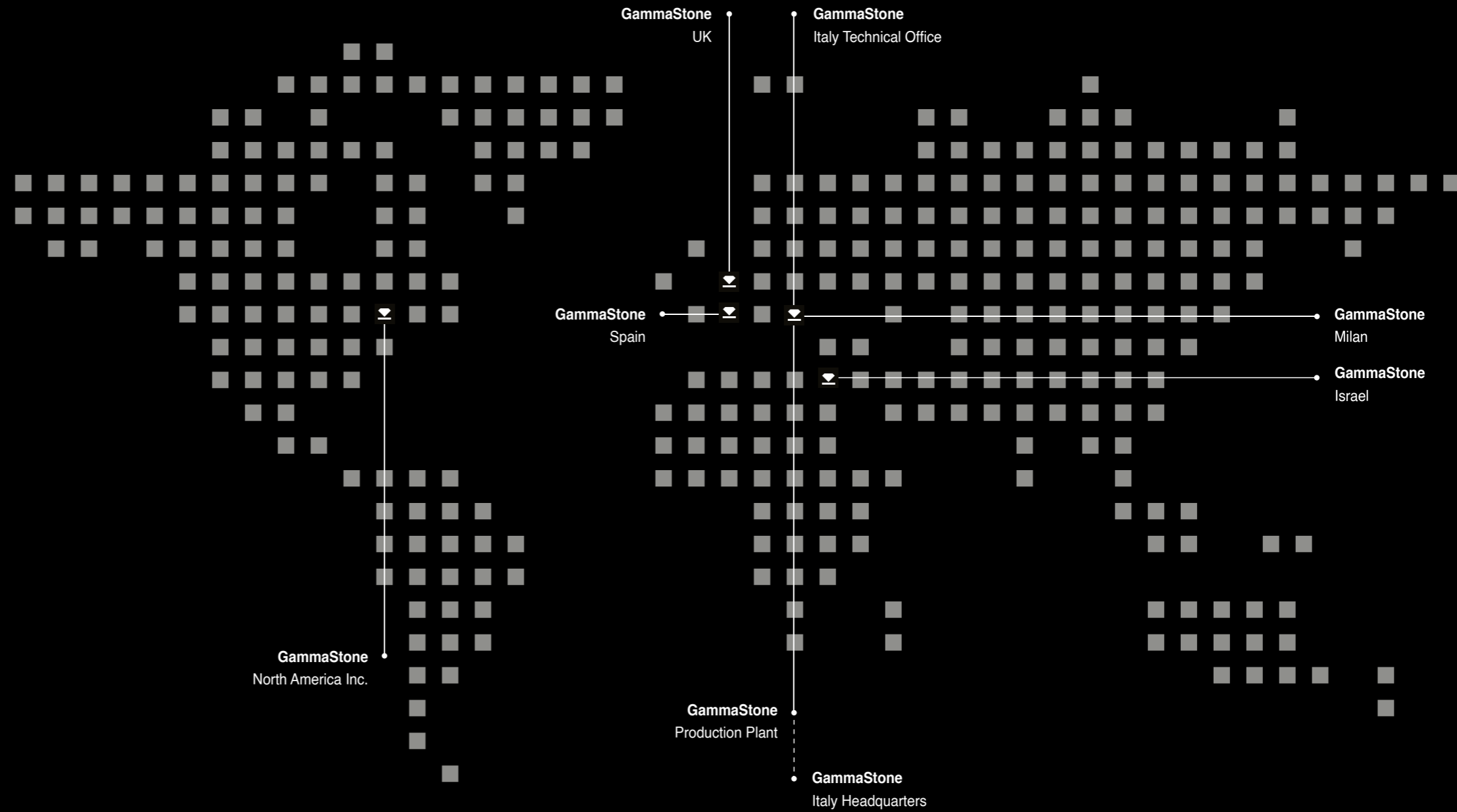
Made in Italy

# GammaStone

## In the World



GammaStone is synonymous with creativity and excellence, the qualities that stem from our 50 years of experience in the stone industry and our tireless dedication in realizing high performance products. Clients from all over the world have certified our products in terms of quality, versatility, reliability and performance. With its extensive experience in the stone industry, our company highlights the materials and brings out the utmost quality using modern technology and engineering. Our panelized solutions can be made with a variety of materials such as natural stone, porcelain, glass, UHPC Plus, mosaic and brick. Each solution is characterized by compactness, excellent technical characteristics, extraordinary resistance and incomparable aesthetics that complement any architectural style. The countless number of Air Technology solutions fulfil any taste's desire; the panels are suitable for the outdoor and indoor of all classic and modern projects.



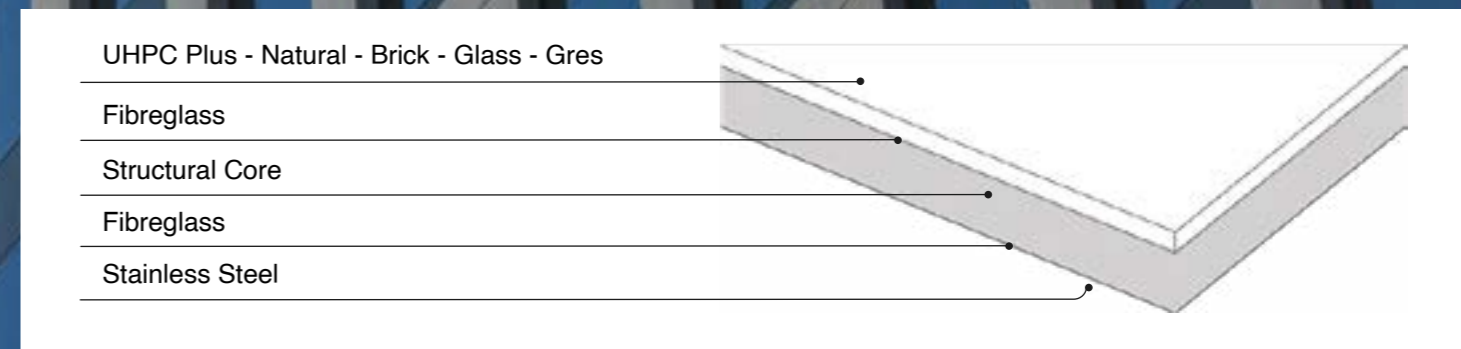


# AIR Technology



GammaStone AIR patented panels are manufactured by state-of-the-art manufacturing equipment enabling the production of lightweight natural stone, porcelain, glass, UHPC Plus, mosaic and brick panels in large format sizes up to 4200x1500mm (approximately 13 x 5 feet) . GammaStone AIR panels are extremely light and have a very high resistance to shocks, bending and compression resulting from the use of innovative materials used in the aerospace industry. GammaStone AIR panels represent a cutting-edge solution that guarantees high performance standards and unparalleled aesthetic beauty. The GammaStone AIR system allows the designer to confidently specify large format panels. The panels are mechanically anchored allowing a simple fixing to the support. The resistance to wind load is considerably higher than any technical requirement imposed by current regulations even in climatic areas subject to extreme weather conditions such as monsoons and hurricanes. The GammaStone AIR product is protected by a patent (patent n. RM2013A000068).

-  Large format up to 4200x1500 mm
-  Easy Installation
-  Energy Saving
-  Acoustic insulation
-  Customisable Solutions
-  Resistant to thermal shocks
-  Monolithic architectural elements
-  Invisible Fixing System
-  Impact Resistant
-  Lightweight (weight of 14 kg/sqm)
-  Fire Resistant
-  Resistance in Neutral Salt Spray NSS
-  Bending Resistant
-  Re-qualification of buildings
-  Resistant to hurricanes





# SURFACES



Natural Air



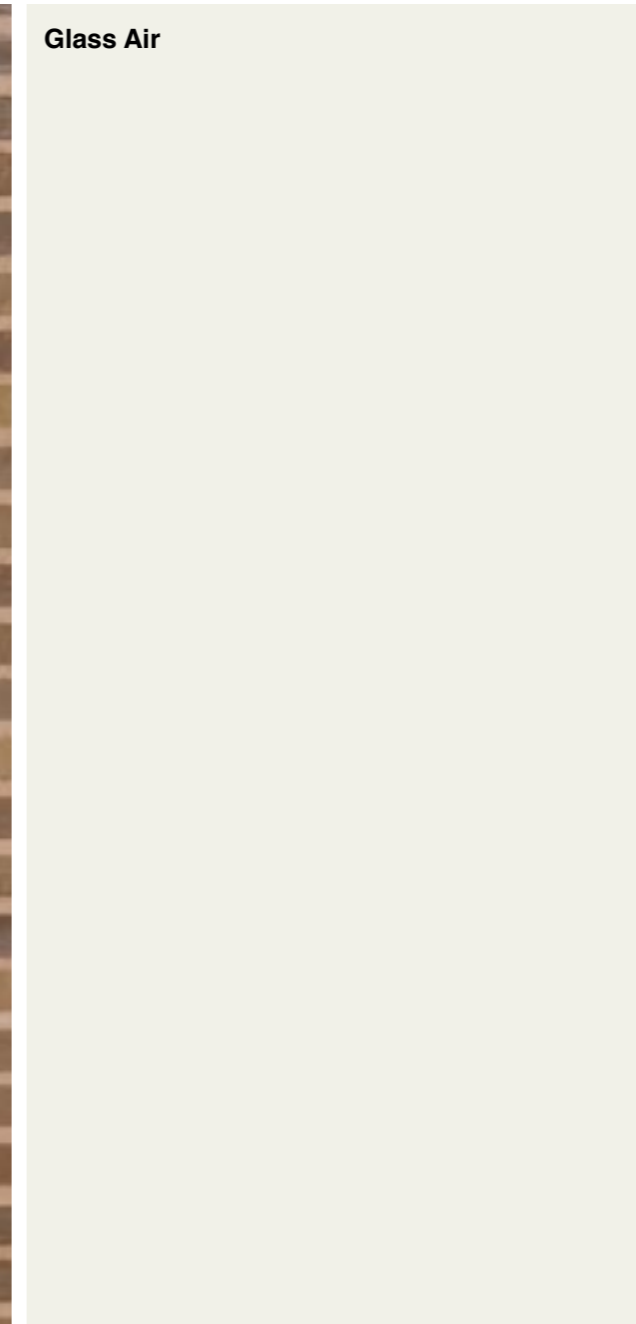
UHPC Plus Air



Brick Air



Glass Air



Gres Air





# Natural Air



Natural stones give the buildings a beauty that defies the centuries, emitting magnificence and sophistication. The wide range of marble, granite, travertine other natural stones, and the various types of processing enable the fulfilment of every architectural requirement. The available sizes depend on the block size, the maximum size is 3200x1500 mm. The panel is composed of a slim natural stone slab, a structural core inserted between two fibreglass mattings and a stainless steel plate having a thickness of 0,5 mm.



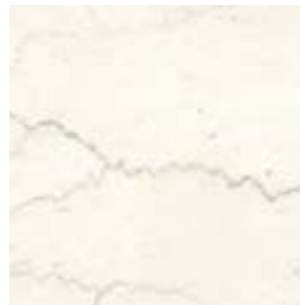
Choose the quarry and customize it



Travertino



Granite - Ivory White



Marble - Bianco Asiago Contro

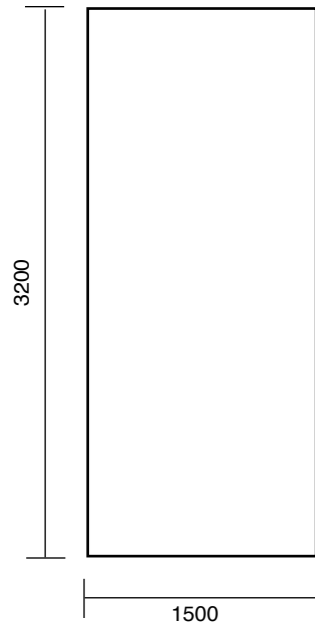


Indiana Limestone



Marble - Crema Marfil

All finishes and materials are available on [gammastone.com](http://gammastone.com)



**Max panel sizes**  
3200x1500mm  
126"x 59"

**Panel Thickness**  
17 mm; 43/64"  
21 mm; 53/64"  
23 mm; 29/32"

**Stone Thickness**  
6 mm; 15/64"  
10 mm; 25/64"  
12 mm; 15/32"

**Weight**  
25 kg/m<sup>2</sup>, 5.1 lb/sqft  
30 kg/m<sup>2</sup>, 6.1 lb/sqft  
36 kg/m<sup>2</sup>, 7.4 lb/sqft

**Material**  
Travertine, Limestone,  
Marble, Granite

**Finishes**  
13 treatments





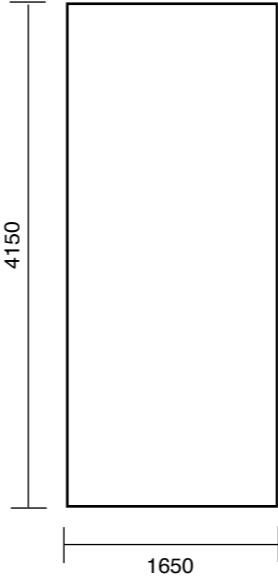


# UHPC Plus Air



GammaStone UHPC Plus AIR is an ultra-high performance concrete panel that is lightweight and extremely strong. Architects can design the façade is UHPC Plus to achieve a concrete appearance without intensely stressing the underlying structure – making it a unique solution for high-rise buildings. The UHPC Plus AIR panel consists of a thin ultra high performance concrete slab and a structural core placed between two glass fiber mats and supported by a 0.5 mm thick stainless steel plate. The total panel thickness is 17mm and the total weight is 18kg/sqm. The maximum size is 4150x1650mm. Made-to-size elements are cut to the correct size with water jets. All GammaStone UHPC Plus AIR panels can be customized in shape, color, and surface finish to suit the designer's requirements.

All finishes and colors are available on [gammastone.com](http://gammastone.com)



Customize it

**Max panel sizes**  
4150x1650 mm  
163.4"x65"

**Panel Thickness**  
19 mm; 3/4"

**UHPC Thickness**  
8 mm; 05/16"



Bianco assoluto



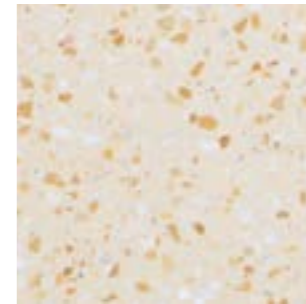
Grigio nebbia



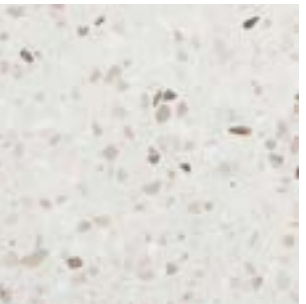
Verde salvia



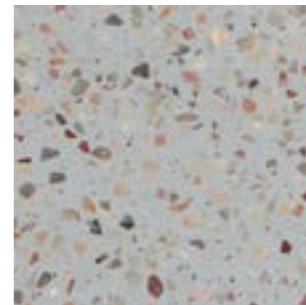
Giallo imperiale



GRAIN - giallo



GRAIN - ghiaccio



GRAIN - marmomix



GRAIN - zaffiro

**Weight**  
24 kg/m<sup>2</sup>, 4.9 lb/sqft

**Colors**  
24 colors, 24 grain

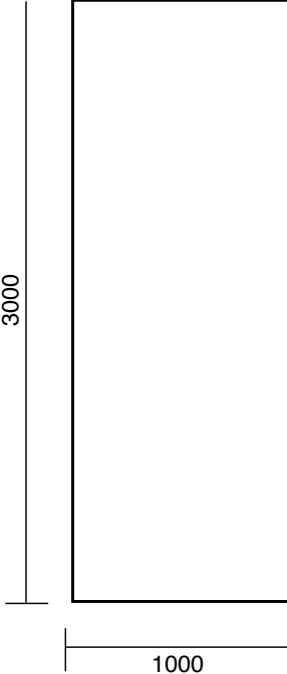
**Finishes**  
3 treatments



# Brick Air



The GammaStone Brick AIR solution allows dry installation of Klinker or porcelain bricks with the advantages of a fast installation and beautiful aesthetics. The panels are delivered ready for installation, with the bricks pointed. The joints between panels are designed to guarantee a unique effect on the entire façade.



Customize it



Brick - Facciavista



Klinker B - Goldline Nero Dorato



Klinker C - Mon Soleil



Gres - Carillon



Gres - Batik

All finishes and colors are available on [gammastone.com](http://gammastone.com)

**Max panel sizes**  
3000x1000 mm  
118"x 39"

**Panel Thickness**  
18 mm; 23/32"  
26 mm; 1/32"

**Brick Thickness**  
7 mm; 9/32"  
15 mm; 19/32"

**Weight**  
17 kg/m<sup>2</sup>; 3.5 lb/sqft  
22 kg/m<sup>2</sup>; 4.5 lb/sqft

**Solutions**  
With Zip,  
Without Zip

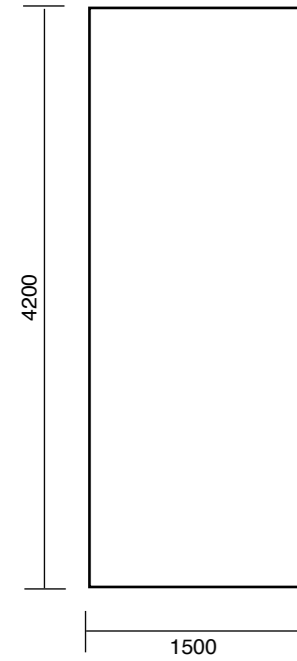
**Finishes**  
Brick Gres,  
Klinker,  
Facciavista





# Glass Air

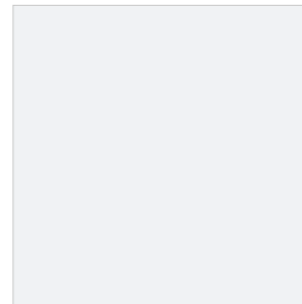
The glass, with its timeless beauty and extreme flexibility of use, gives majesty and elegance to the buildings and places. The wide selection of colors, the various compositions and processes allow to meet all architecture requirements and endless customization. The most important glass manufacturers in the world, our partners, enable us to offer multiple solutions: varnished, reflecting, screen-printed glass and more. Available sizes up to 4200x1500 mm and all sub sizes obtained by cutting the standard ones. The panel is composed of a ultraslim glass slab, a structural core inserted between two fiberglass matting and a stainless steel plate of 0,5 mm thickness. The float or tempered glass is applied depending on the sizes and required applications.



Customize it



Bianco



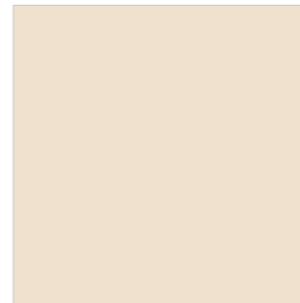
Ghiaccio



Nero




Tortora



Bianco Perla


All treatments and colors are available on [gammastone.com](http://gammastone.com)


 **Max panel sizes**  
4200x1500 mm  
165.35"x59"

 **Panel Thickness**  
17 mm; 43/64"

**Glass Thickness**  
6 mm; 15/64"

 **Weight**  
21 kg/m<sup>2</sup>; 4.3 lb/sqft

 **Treatments**  
Float, Tempered

 **Colors**  
32 colors, other colors on request





# Gres Air



GammaStone AIR large size porcelain gres panel is a high technology product that fulfils all architectural designs as well as represents a fundamental element of furnishing. GammaStone uses only the highest quality porcelain gres made in Italy. GammaStone high quality porcelain gres is a compact ceramic paste, which is hard and coloured, obtained from the process of sintering at temperatures around 1200-1400°C, until reaching a non-porous and waterproof vitrification. Porcelain gres guarantees optimal resistance to scratches, wear and tear, UV rays, stains and moulds.



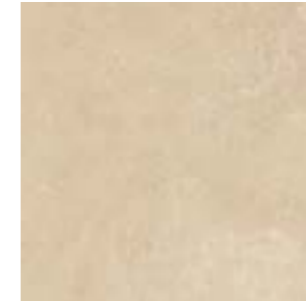
Customize it



Geo Bronzo



Base Bergen



Marmo Limestone

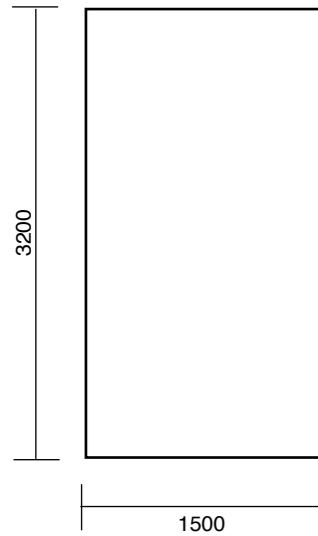


Marmo Travertino Classico



Geo Noce

All colors are available on [gammastone.com](http://gammastone.com)



**Max panel sizes**  
 3200x1500 mm  
 126"x59"  
 3000x1000 mm  
 118"x39"

**Panel Thickness**  
 14 mm; 35/64"  
 16 mm; 5/8"  
 17 mm; 43/64"

**Ceramic Thickness**  
 3 mm; 1/8"  
 5 mm; 13/64"  
 6 mm; 15/64"

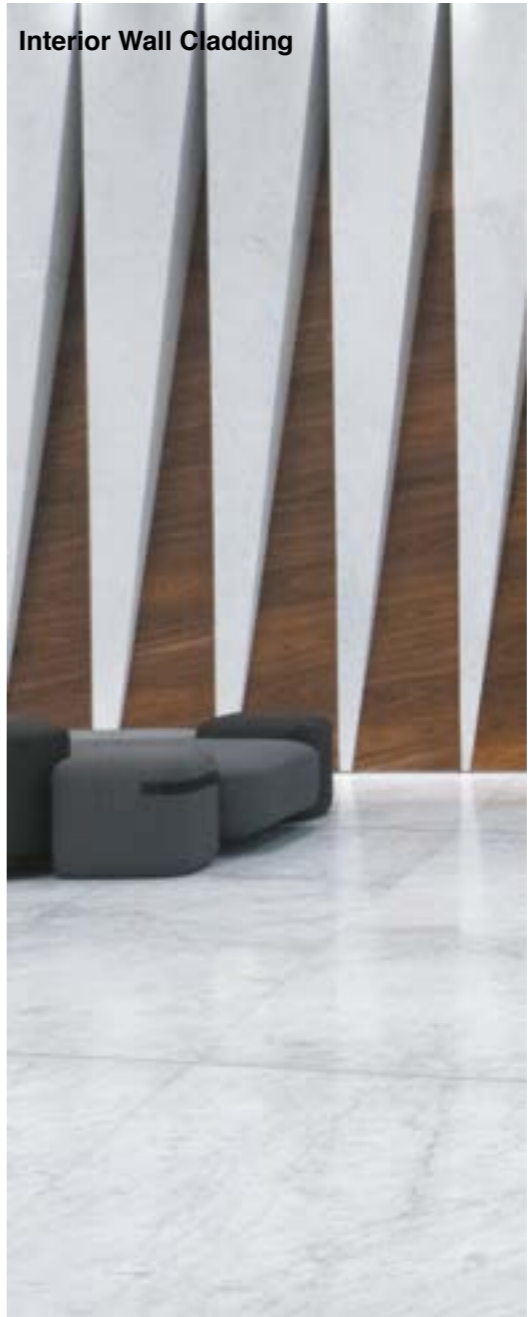
**Weight**  
 14 kg/m<sup>2</sup>; 2.9 lb/sqft  
 19 kg/m<sup>2</sup>; 3.9 lb/sqft  
 21 kg/m<sup>2</sup>; 4.3 lb/sqft

**Colors**  
 Marble, Wood, Cement,  
 Metal, Unicolour





# SYSTEMS











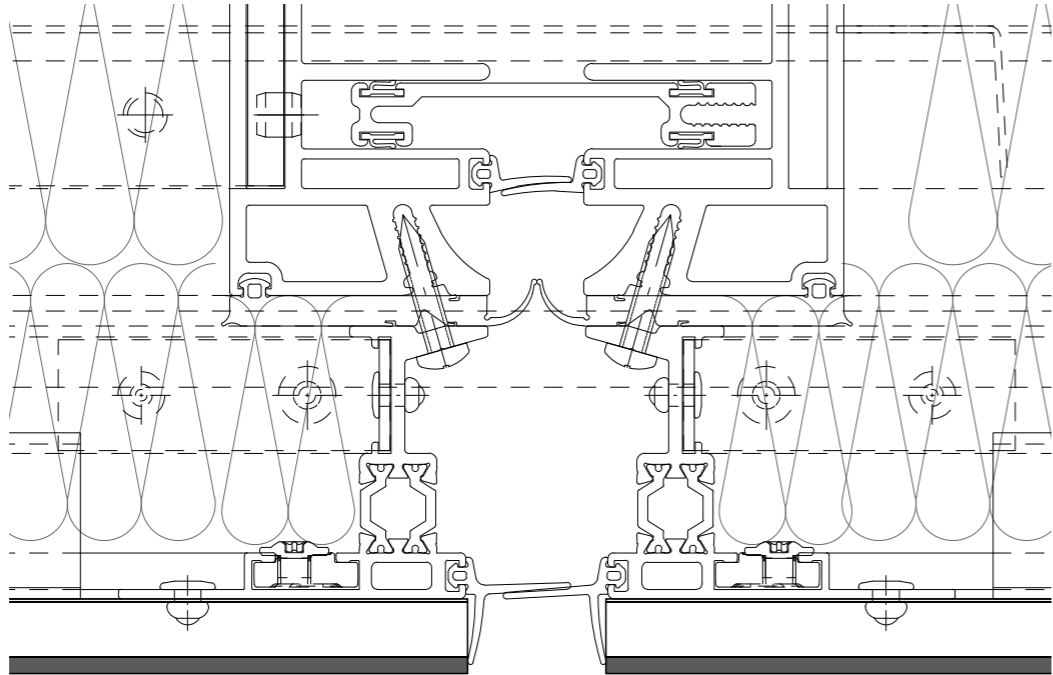
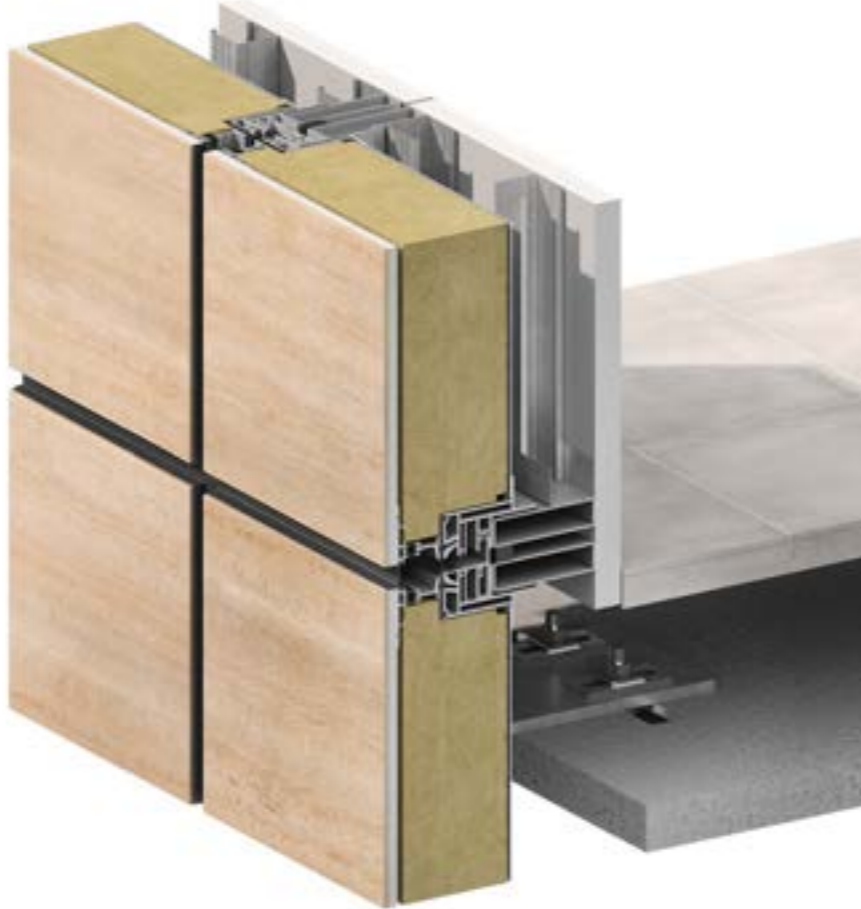


# Gamma Wall



The dry wall solution with external finish in GammaStone AIR panels totally factory prefabricated and installed directly in site between two reinforced concrete floors. Gamma Wall reduces installation time and costs while ensuring high air, water, wind, thermal, acoustic and fire response performance.

-  Large format
-  100% prefabricated
-  Thermal insulation
-  Acoustic insulation
-  Resistant to hurricanes
-  Impact Resistant
-  Resistant to thermal shocks
-  Energy Saving



- GammaStone Steel Frame
- GammaStone AIR
- Gaskets
- GammaStone Aluminum Frame










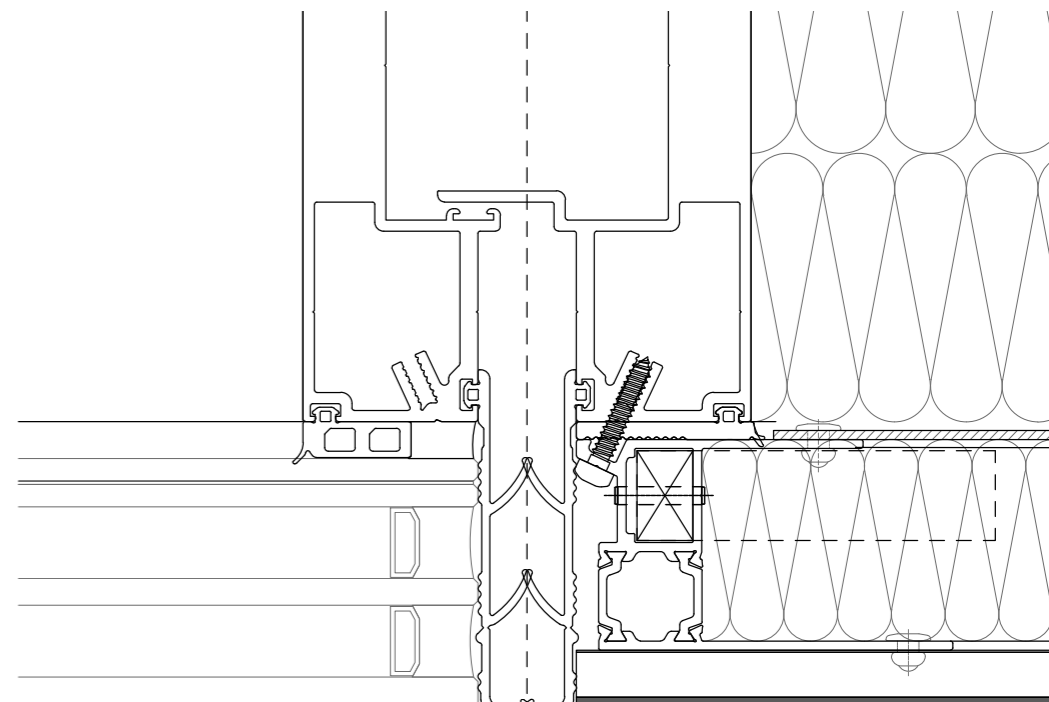
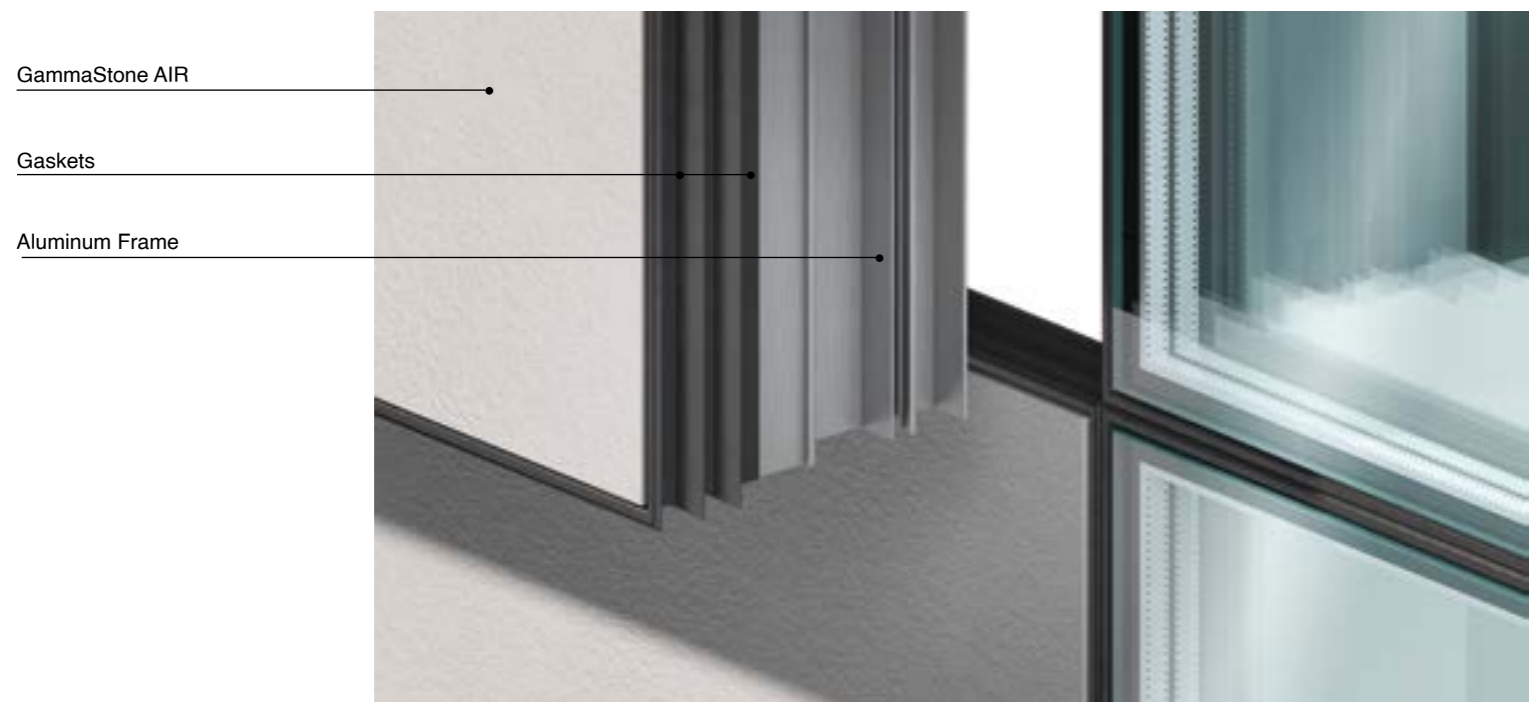


# Unitized Facade

GammaStone AIR cladding solution seamlessly integrates with any panels continuous façade. This cladding provides high thermal resistance, contributing to the thermal insulation of the building despite the minimum thickness and high aesthetic value.










-  Large format
-  Thermal insulation
-  Acoustic insulation
-  Resistant to hurricanes
-  Impact Resistant
-  Resistant to thermal shocks
-  Energy Saving

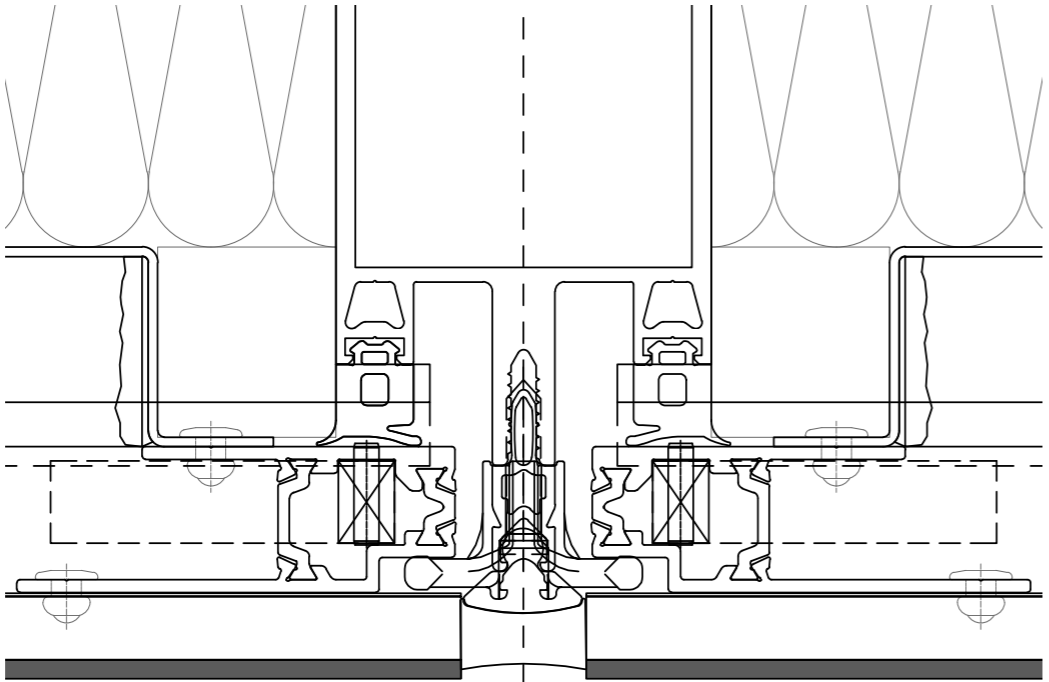




# Stick Facade

Stick Facade is a GammaStone Air cladding solution that integrates seamlessly with any Mullion and Transom curtain wall system. This system provides high thermal resistance, contributing to the thermal insulation of the building despite the minimum thickness and high aesthetic value.

-  Large format
-  Thermal insulation
-  Acoustic insulation
-  Resistant to hurricanes
-  Impact Resistant
-  Resistant to thermal shocks
-  Energy Saving



- GammaStone AIR
- Aluminum Frame
- Gasket
- Toggle





# Ventilated Facade

Our ventilated facades, the result of an intensive research process, are a response to the widespread need for efficient thermal and acoustic insulation for homes, workplaces etc. with structures and materials that, at the same time, guarantee an unalterable aesthetic beauty.

-  Large format
-  Thermal insulation
-  Acoustic insulation
-  Resistant to hurricanes
-  Impact Resistant
-  Resistant to thermal shocks
-  Energy Saving

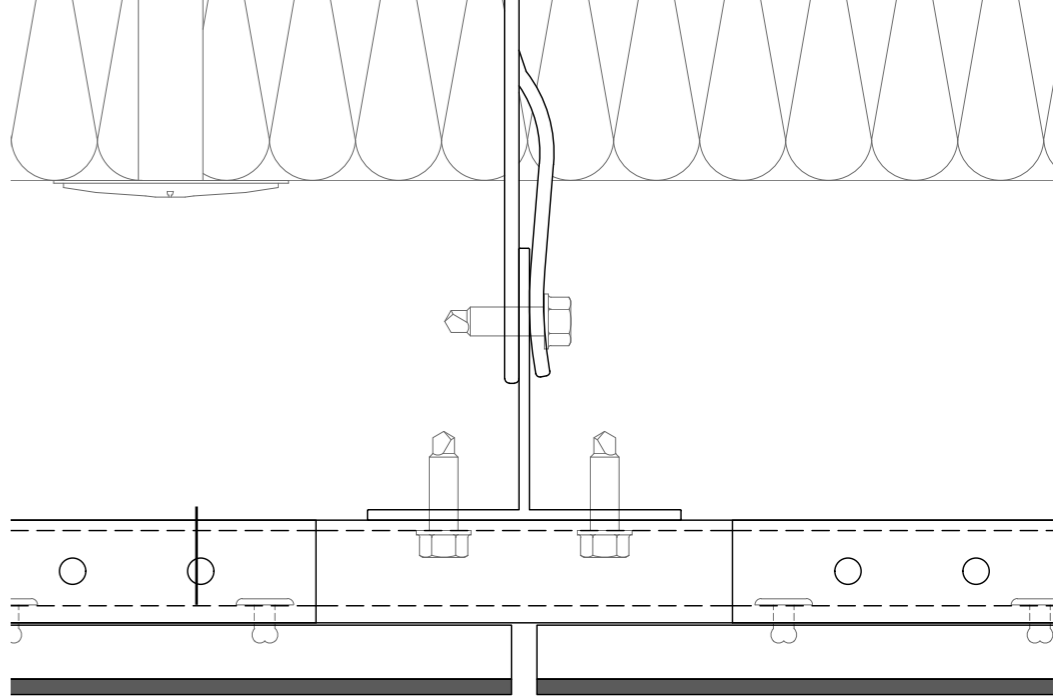


GammaStone Clip

GammaStone Rail

GammaStone AIR

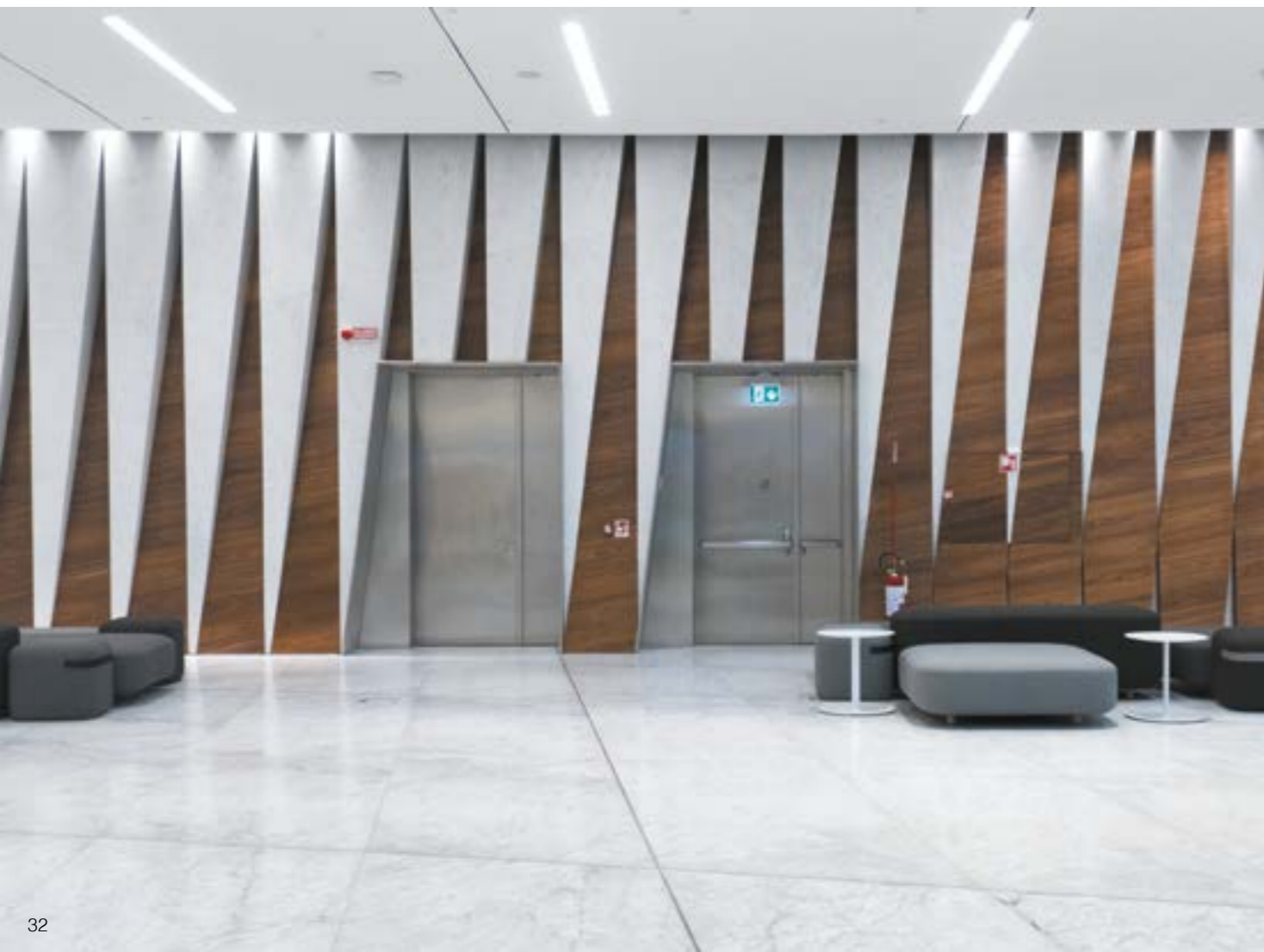
Aluminum Substructure





# Interior wall cladding

GammaStone AIR allows you to dry coat entire walls in a very short time and with maximum cleaning, also leaving a gap between panel and masonry useful for wiring the systems.



# Ceiling Cladding

GammaStone AIR panels adapt perfectly to ceilings and thanks to the extreme lightweight are the ideal solution for architects and interior designers.





# Invisible Mechanical Fixing System



The system consists of clips and rails manufactured by GammaStone in black anodized aluminum. The clip is fixed on the back of the panel GammaStone AIR with two rivets. The upper clips have holes where you can insert screws for adjustment. Thanks to the concealed fixing elements, the GammaStone panels provide the designer an easy installation system.



Mechanical Fixing



Structural Stainless Steel Rivet



Over 400 kg/clip pull out resistance



Integrated Adjusting Systems



Finishes  
Black Anodized Aluminum



Adjusting screw

GammaStone Clip

GammaStone Rail



Stainless Steel Rivet



# Architectural Monolithic Elements



The main feature of the GammaStone AIR system is the high level of workability and flexibility of use; the panels can be cut at different angles, glued with structural epoxy adhesives and reinforced with metal corners forming a single monolithic architectural element capable of satisfying the most varied aesthetic and functional needs of buildings. These unique panels allow us to produce false beams or columns with complex and even irregular shapes or revitalize existing buildings with a new aesthetic.



Monolithic Effect



Multiple Customization Options



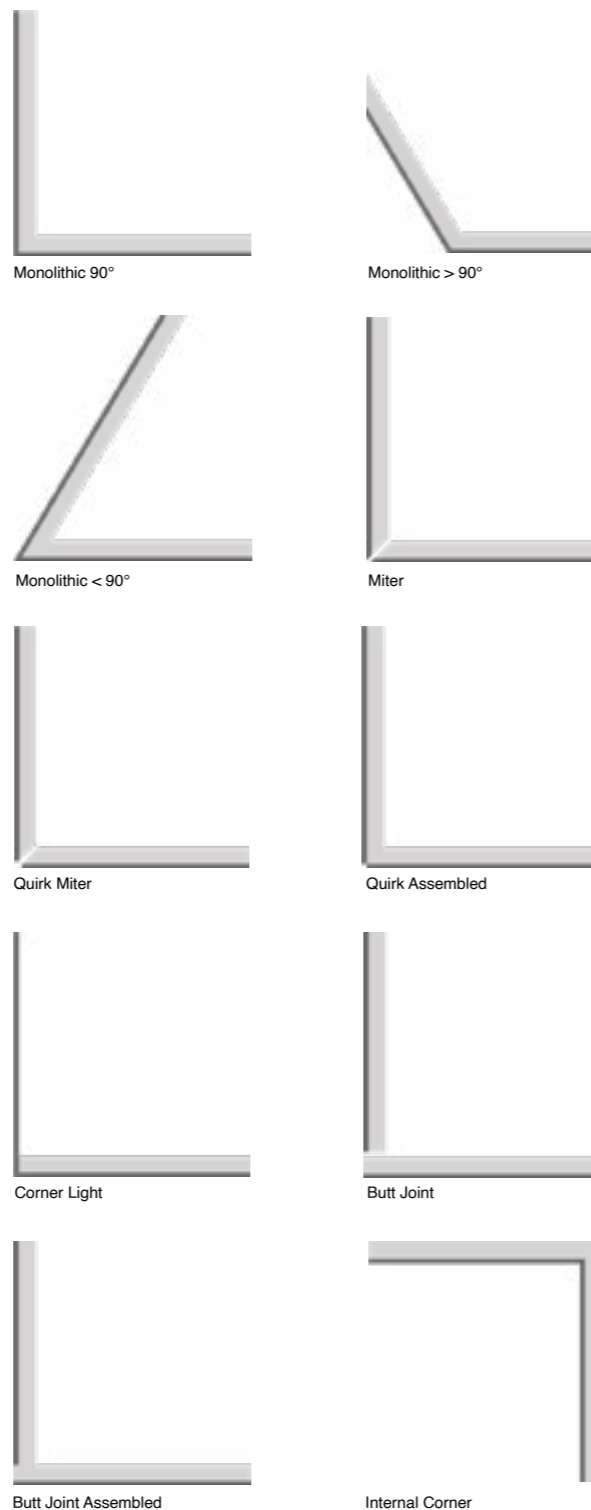
Large Format





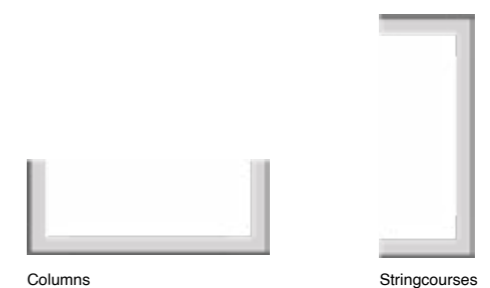
# Corner Types

Our long experience guarantees corners fabricated respecting the highest finishing standards. Imagine any material whose joint is almost invisible, in a way that the edges of some natural materials seem bent and not joined.



# Columns and Stringcourses

GammaStone produces monolithic columns and stringcourses of large dimensions already assembled and ready to be installed with perfect finishes.





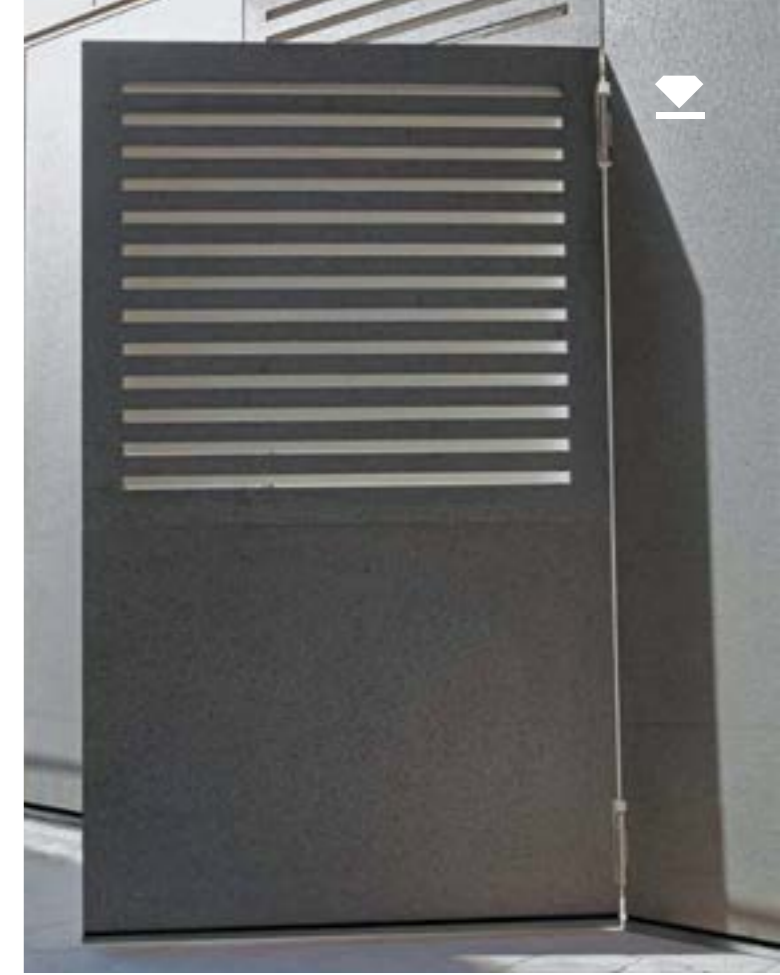
# Curved Panels

GammaStone produces Curved Panels in different materials, laboratory-made respecting all quality and security standards and ready to be installed.



# Doors Coating

This solution allows to have the continuity between the façade and the door, providing an incomparable aesthetic effect. Thanks to the large panel sizes the door will be made of one GammaStone panel with the same finish of the façade.



# Closed Joint

This kind of application allows GammaStone to offer a ventilated façade with the appearance of a typical full stone with grouted joints.



# Ventilation Grid

The GammaStone panels can be drilled and installed to cover air ventilation systems.



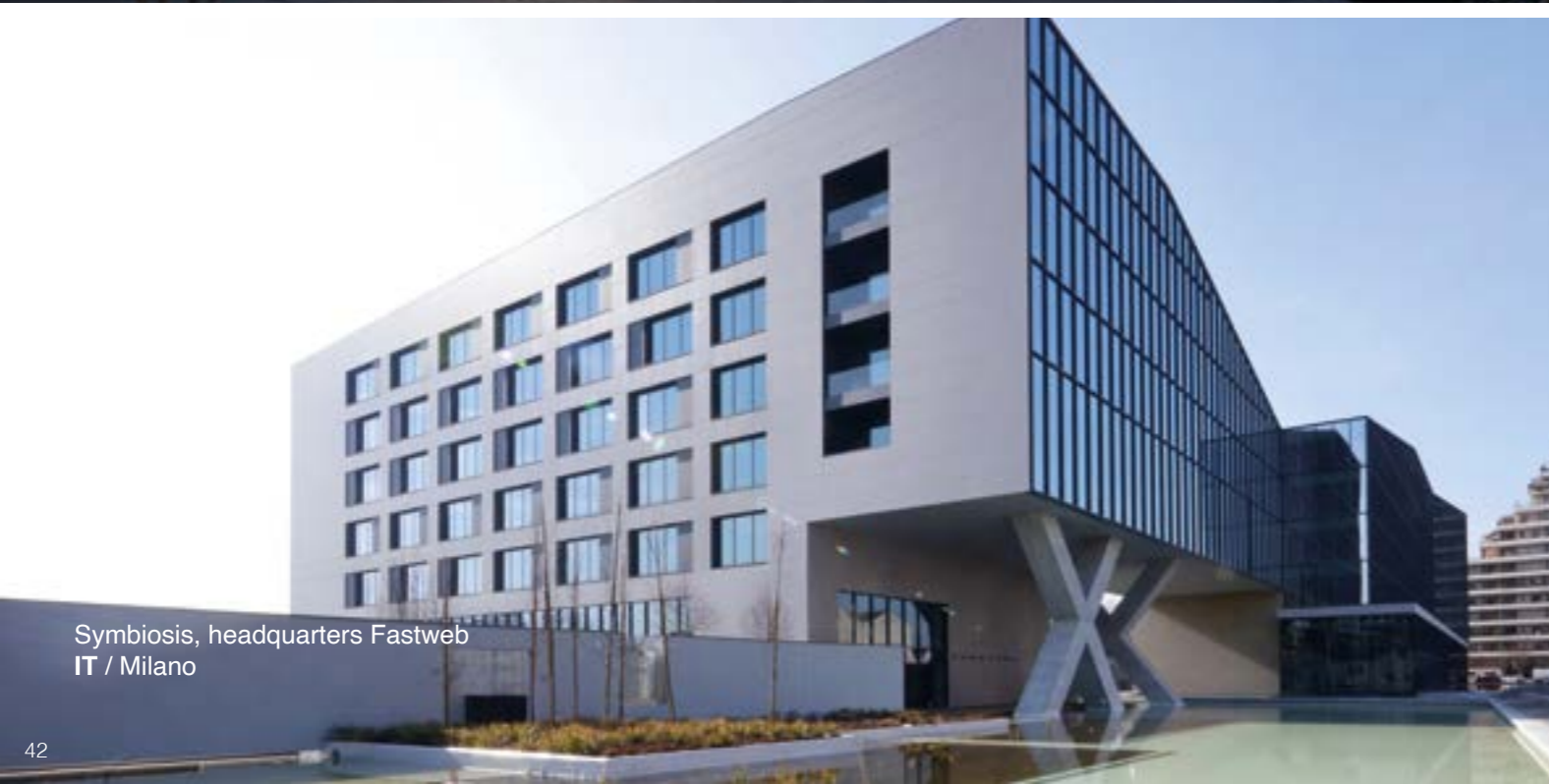




Indiana Health University  
USA / Indianapolis



Essex Crossing 3  
USA / New York



Symbiosis, headquarters Fastweb  
IT / Milano



Lincoln Center  
USA / New York







SeiMilano  
IT / Milano



Assicurazione Reale Mutua  
IT / Torino



Residential Building  
IT / Milano



The Strong Museum of Play  
USA / New York



Residence INN  
USA / Buffalo





Richard Tower  
IT / Milano



Chestnut Tower  
USA / Philadelphia



Coop, Arona Center  
IT / Milano



The Market Luxury Outlet  
SMR / Città di San Marin



Virgin Hotel  
USA / Dallas







Gucci Store  
USA / Palm Desert



D&G Store, The Dubai Mall  
UAE / Dubai



Matera Railway Station  
IT / Matera





140 West 24th Street  
USA / New York



Libeskind Tower  
IT / Milano



Hudson Site  
MI / Detroit



Prada Boutique  
PA / Panama City



# Production Plant

GammaStone - Production Plant  
Loc. Quartaccio – Strada provinciale 74, km 1,45 01034 Fabrica di Roma (VT) Italy

4

Antropomorphic  
Robot

8

Press Line

1

Heating Process

1

UHPC Extrusion Line

2

CNC Machines

1

Calibration Line

3

Splitting Lines

24

Assembling Work Stations

5

Cutting Lines

4

Straight Line  
Ending Machine

1

Polish Line

1

Surface Treatment Line



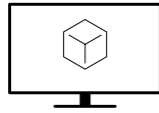








## Building Information Modeling



GammaStone is on the forefront of building façade engineering application of BIM software, allowing our clients to comply with project BIM requirements. GammaStone's BIM application includes clash detection between façade elements and surrounding construction, an overall coordination between the structure and other trades. We can also translate the 3D façade system detailing into part fabrication drawings for manufacturing applications. We are adding BIM object/models of GammaStone panels in the following BIM "cloud" libraries and portals.

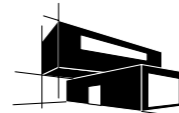
## Stone Sourcing



We can identify economical, aesthetically acceptable and structurally sound material options, and assist in its procurement for architectural stone cladding applications.

- Research and procure samples natural stone from worldwide quarries
- Evaluate stone quarry and fabricator capabilities
- Develop budget pricing for material acquisition and cladding installation
- Establish preconstruction stone testing and observation protocol
- Suggest value enhancing stone material alternatives and technical detailing options
- Observe stand-up slab mockup and coordinate record samples
- Coordinate full-scale pre-fabrication visual mockup at stone fabrication facility
- Review contract drawings, shop drawings and calculations
- Perform subcontractor design peer reviews
- Observe material fabrication for structural conformance
- Establish production stone testing protocol, and observe testing
- Review and comment on field workmanship mockup
- Observe stone cladding installation on project site for conformance with design requirement

## Design



GammaStone is able to develop projects considering the different modules of the façade: jointless architectural elements made or facade components like openings, string courses or other non-modular elements.

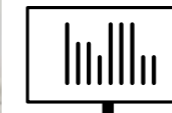
- Those elements are usually needed during renovations. GammaStone Technical department consists of a team of architects and engineers aimed to develop projects following all the phase of the design process:
- Acknowledgement of the architectural concept for the cladding system of the building;
  - Feasibility assessment;
  - Identification of the materials of the perimetric
  - Definition of the structural plan and the respective general calculations;
  - Implementation of the projects executive drawings.
  - Development of construction drawing
  - Development of Records
  - Mounting plan
  - Dimensioning of the panels
  - Calculations of the joints
  - Optimization of scraps according to the dimensions of the slabs.
  - BOM Processing
  - Static analysis
  - Packing list processing

## Project Management



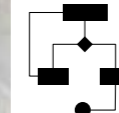
GammaStone is also known for its excellent project management service. The company can manage every step of the production process, from design to final product delivery, efficiently and professionally. Thanks to attention to detail and customer care, GammaStone can meet the varying needs guaranteeing a personalised and high-quality service. Thanks to our experience, the quality of the products and this high-level project management service, we can offer customised and innovative solutions for every type of architectural cladding project, both for the residential and commercial sector. Over time we have shown that we have an excellent ability to manage the schedules of architectural cladding projects. Thanks to a highly qualified and professional team, able to plan and coordinate each phase of the project, we ensure that all deadlines are met in a timely manner and that the project is completed within the established deadlines.

## Static Analysis



The static calculations consider a uniformly distributed unit load. The loads used for the different sizing procedures are evaluated using the principle of superposition. The procedures for designing all the elements of the façade are conform to the following combinations considering the most significant stresses Note: the design of the façade elements will be provided for the combination of the most relevant load. Details relating to the design of the shelves, to the fastening of the bracket to the base material and fixing of the profile to the bracket are show in separate documents (statics of the system).

## Assembly Plan



Our technical department develops the drawings for each project related to the installation plans or tables of laying; starting from the design, along with the production and the packaging. The different phases meet the same criteria and follow the priorities to the final assembly stage. Each piece is accompanied by the technical details and the identification codes associated with the schedule of the entire project.

## Installation



Installing the GammaStone façades is extremely simple and safe. Thanks to the collaboration of leading companies in the production of anchorage systems that are already of well-known and tested anchorage systems. The fitter is equipped with all specific indications for installation. Thanks also to the extremely reduced weight of the panels, installing is easier than with other ventilated façade solutions.



# Over 200 tests in the best leading European and American laboratories

The company has the ISO 9001 certification issued by IMQ (Istituto Italiano del Marchio di Qualità), Italy's most important certification body and a European leader in assessments and laboratory testing for safety, quality, and sustainability. Our products are a combination of visual, technical and design quality flawlessness. The reliability and aesthetic perfection of our surfaces and facades are now an undisputed fact, accredited by important international certifications for the full range of products.

#### **GammaStone Air Panel**

All GammaStone AIR panels (glass, stone Natural and porcelain tiles) have undergone the rigorous testing required by international regulations. The performance results are striking, all GammaStone AIR products have excellent design life and performance characteristics. The results also confirm that GammaStone AIR panels which are installed outdoors can resist in the most extreme conditions.

#### **GammaStone Air façade system**

To ensure maximum safety, the GammaStone AIR façades have been subjected to rigorous tests required by the ETAG standard guidelines, conducted at the Istituto Giordano. The sample under test is a portion of the ventilated façade with concealed hangers which consists of the supporting structure in extruded aluminum profiles and brackets, an external cladding of 3000x1000 mm sandwich panels with 15mm thickness finished with gres porcelain tiles.

#### **Wind load resistance**

The test was performed in accordance with the EOTA standard guideline (European Organisation for Technical Approvals) ETAG 034-1:2012 April 2012 "Guideline for European technical approval of kits for external wall claddings - Part I: Ventilated cladding kits comprising cladding components and associated fixings." The sample was mounted on the test bench and was subjected to the test of resistance to wind load in depression, with measurement of the deformations under load and detection of residual deformations according to paragraph 5.4.1 "Wind load resistance" ETAG 034-1:2012. The test results proved to be exceptional in depression 4610 Pa (470 kg/sqm). Test report No. 309028

#### **Impact strength**

The test was performed in accordance with the standard guidelines:  
- ETAG 034-1:2012 April 2012 "Guideline for European technical approval of kits for external wall claddings - Part I: Ventilated cladding kits comprising cladding components and associated fixings  
- UNI EN 14019:2004 01/11/2004 of Curtain walling  
- Resistance to impact  
- Performance requirements  
Also this test proved extraordinary results. The panel resists to impacts by of 0.5 and 1 kg hard body and 50 kg soft body. TEST REPORT No. 309029







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