



GENERAL
CATALOG
2024

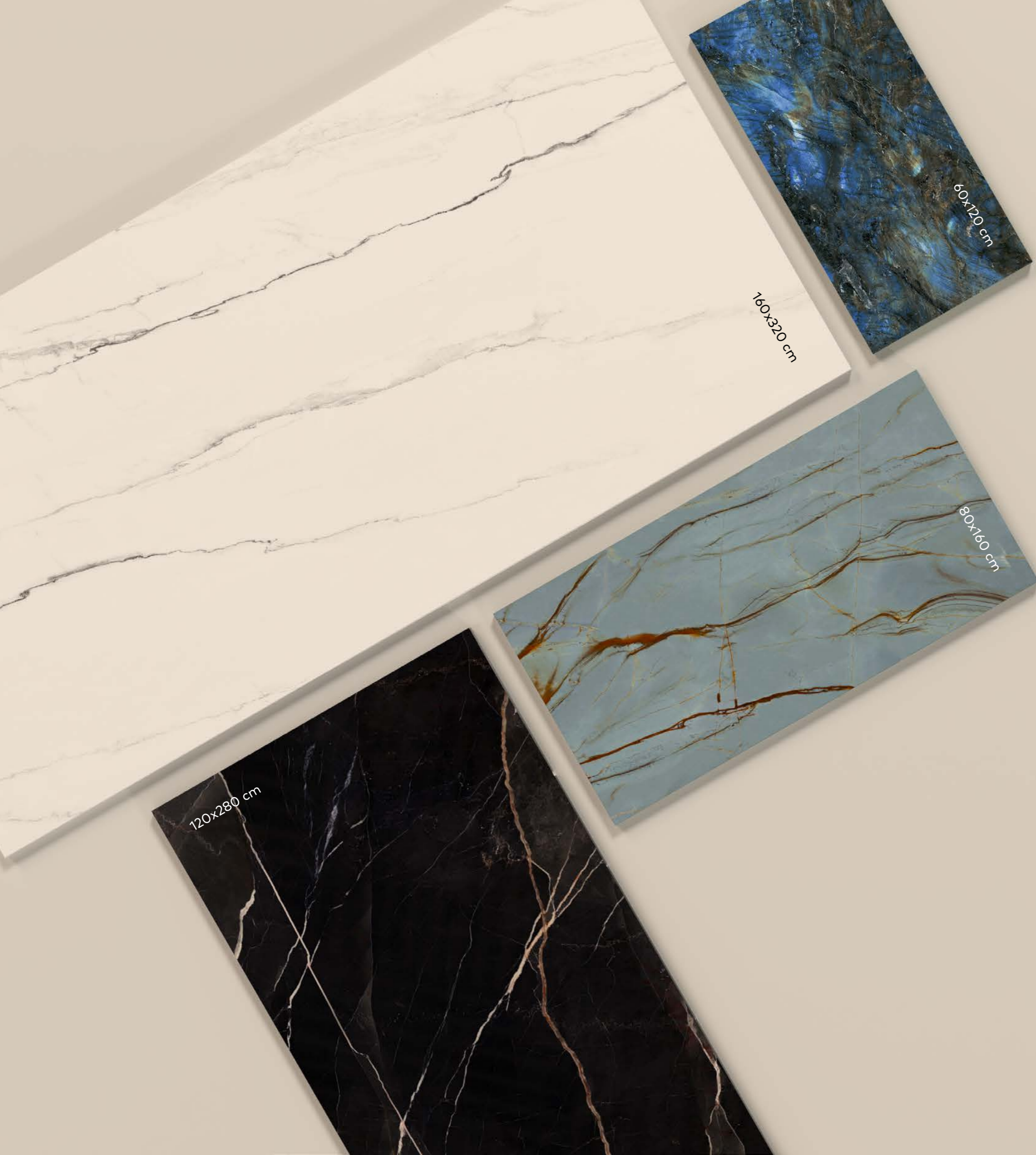


PISHGAMAN MEMARI ARYA

WE WILL ALWAYS BE THERE, FOR YOU

IMPERIO Company heading towards widen its range of products, relying on valuable trust of its customers, has established an office in Castellon Spain. This new attempt facilitates access to raw material and enables approach to new European export market. IMPERIO's avant-garde brand "IMPERIO DE CERAMICA" targets luxurious and modern market of residential projects, villas, boutiques, hotels, etc. In search for beauty, Imperio finds the sensual support of the most precious materials that nature has to offer to induce ostentatious luxury or sophisticated use of materials for a much more modern elegance. Imperio interprets the environment emphasizing the search for individual pleasure through

beauty by each and every new design in its range of series. Along with the world's industry leaders, Imperio is the choice of those who immerse themselves in glamour, sensuality and novelty; seeking luxury, elegance, modernity and decisive styles through exclusive and original designs from most prominent Spanish and Italian design studios. Each porcelain ceramic tile of this collection embodies a new story. The pattern expresses innovative, stylistic and contemporary trends that are different but matching by the constant reference to a warm and welcoming atmosphere.



Variety of Sizes

To Create an Architectural Dream

IMPERIO celebrates the uniqueness of every architectural narrative. Our porcelain ceramics span a breathtaking spectrum of sizes, ensuring every design ambition materializes. With IMPERIO, embrace boundless possibilities.

The Gold Standard in Diverse Ceramic Portfolios

The Apex of Luxurious Interior
Design with IMPERIO

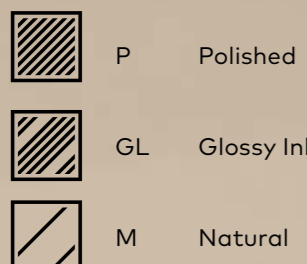


Finishing

























Dive deep into IMPERIO's world where every tactile surface echoes luxury. Whether it's the muted grace of matte, the radiant luster of polished, or the intricate allure of relief – our ceramics elevate sensory experiences.

Usage

IMPERIO's ceramic tapestry is not just vast but resplendent in its diversity, showcasing our mastery. Whether it's the commercial core, rejuvenated office spaces, therapeutic hospitals, secure banks, luxurious hotels, or recreational arenas – our footprint is ubiquitous, echoing excellence. At IMPERIO, we don't just shape projects; we create experiences, solidifying our position as the ceramic connoisseur.



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Modern & Luxury

Essence of Modern Opulence

Redefining Elegance and Innovation in Ceramics. At IMPERIO, we understand that our discerning clientele seeks more than just functionality in ceramics; they desire a blend of luxury and contemporary design that elevates their living spaces. Our exclusive collection embodies this ethos, offering an unparalleled fusion of sophisticated style and cutting-edge innovation. Each piece is crafted with meticulous attention to detail, ensuring not only an aesthetic that resonates with modern luxury but also a quality that stands the test of time. From the sleek contours of our designs to the opulent finishes that characterize our range, IMPERIO ceramics are a testament to our commitment to excellence in every aspect. Step into a world where elegance meets modernity, and let IMPERIO transform your spaces into a haven of upscale refinement and contemporary charm.

PRODUCTS



Wall: Pacific Natural — 120x280 cm
Floor: Pacific Natural — 120x280 cm



Pacific

Pacific is the realm of calmness, evokes one of the finest Italian pure white marble with the name of Sivec white. Its clear and white homogenous character make it to be one of the best luxurious marbles, shades of white and shady gray subtle veins make it an ideal for architectural applications.



Wall: Pacific Natural — 120x280 cm
Floor: Pacific Natural — 120x280 cm





Wall: Pacific Natural — 120x280 cm
 Floor: Pacific Matte — 60x120 cm

Novelty

Pacific



Available other sizes upon demand. For more detail
 please contact sales department.

120x280 cm
 IM2300L-N
 Natural | 5 Faces
 IM2300L-P
 Polished | 5 Faces

IMF2300R-M
 Matte | 10 Faces
 IMF2300R-P
 Polished | 10 Faces
 Thickness: 9 mm

Blue Roma

Blue Roma is another quartzite treasure from northeast Brazil. Its spectacular blueish-grey background with criss-crossed and graceful copper veins represents an enriched surface. The complemented contrast of the vein and background depicts an avant-garde style in your spaces. With the amazing essence of the Blue Roma texture, which represents a vibrant blue and copper mixture, you will experience a luxurious and elegance.



Wall: Blue Roma and Perla Venata Polished — 120x280 cm
Floor: Blue Roma Natural — 160x320 cm

Wash Basin: Blue Roma Polished



Wall: Blue Roma and Pacific Polished — 60x120 cm
Floor: Blue Roma Matte — 60x120 cm
Wash Basin: Pacific Natural





Wall: Blue Roma Polished — 120x280 cm



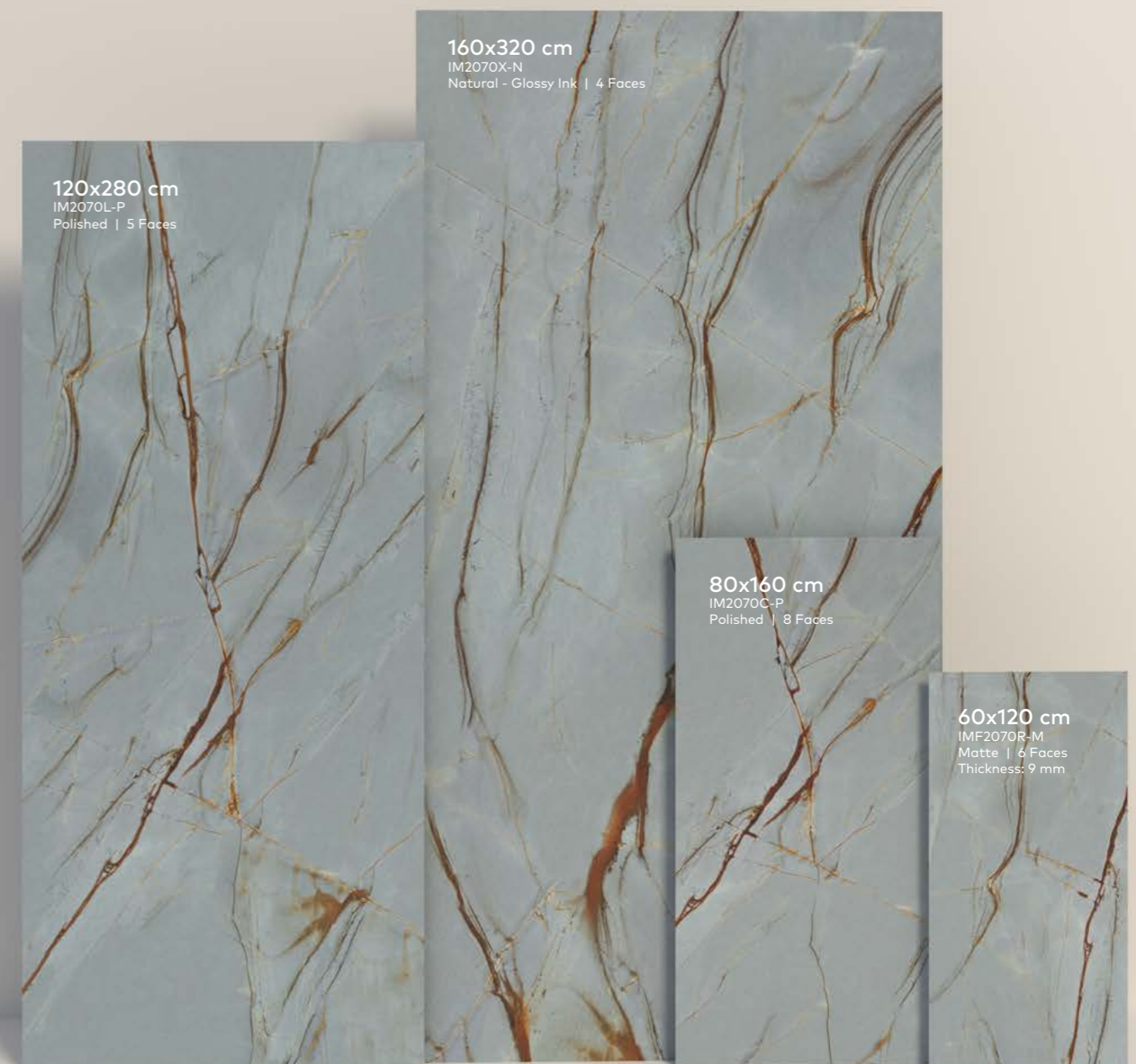
Wall: Blue Roma Polished — 120x280 cm

Novelty

Blue Roma



Available other sizes upon demand. For more detail please contact sales department.



120x280 cm
IM2070L-P
Polished | 5 Faces

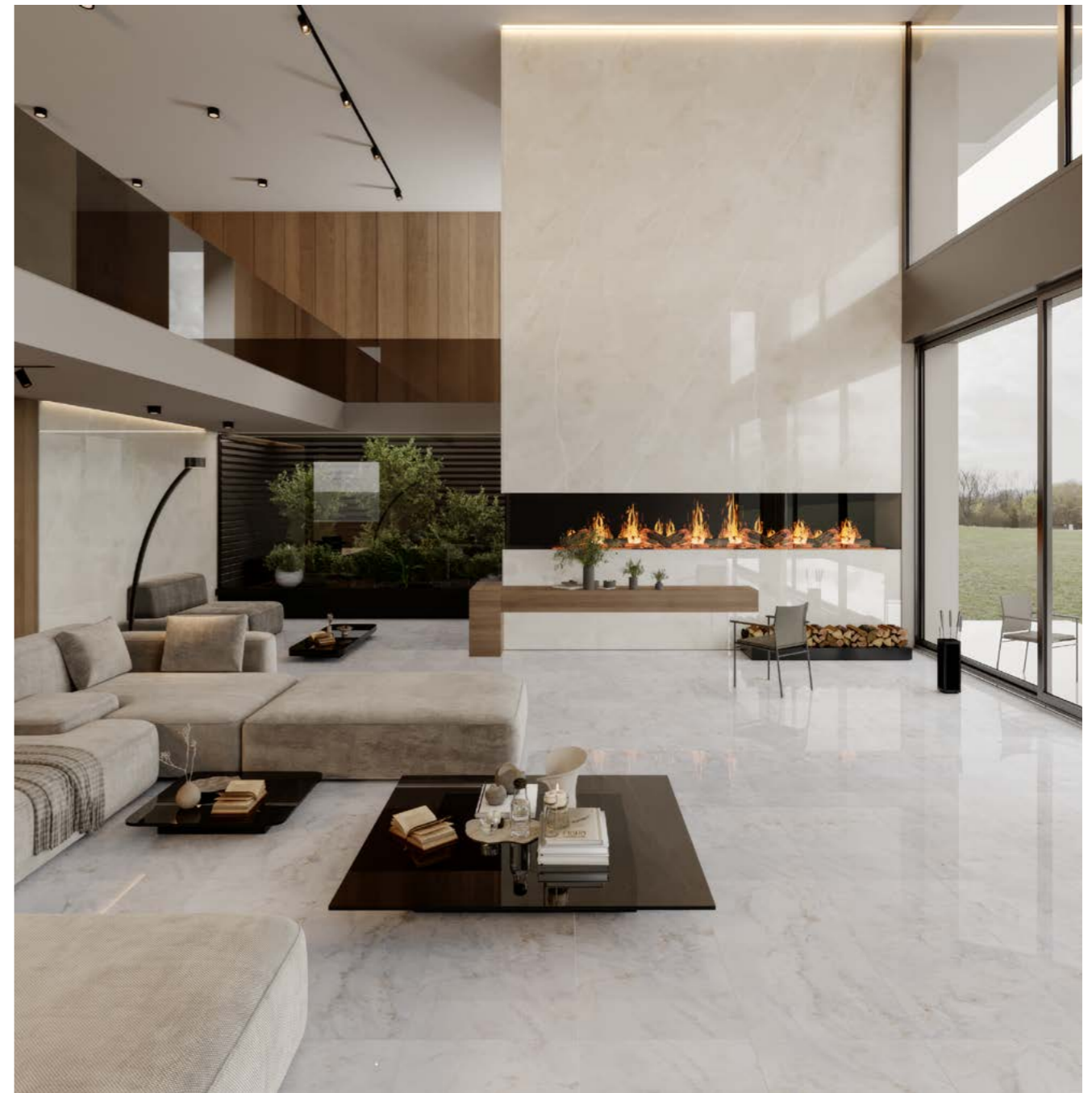
160x320 cm
IM2070X-N
Natural - Glossy Ink | 4 Faces

80x160 cm
IM2070C-P
Polished | 8 Faces

60x120 cm
IMF2070R-M
Matte | 6 Faces
Thickness: 9 mm



Wall: Onyx Avorio Polished — 120x280 cm
Floor: Euphoria Gold Polished — 60x120 cm



Euphoria Gold

Euphoria, reminiscent of Estremoz marble, is a luxurious polished product which presents a homogeneous surface with light gold details. Euphoria's elegant white background is adorned with dancing gold and blue shades fading into the misty backdrop. The milky soft surface of Euphoria creates a minimal and soothing sensation, while its crystalline texture adds depth to the design structure, making it a standout choice for architects and interior designers who are seeking to create graceful and harmonious interiors.



Floor: Euphoria Gold Polished — 60x120 cm and
Mystic Black Polished — 120x280 cm

Counter: Vena Vecchia Polished





Floor: Euphoria Gold Polished — 60x120 cm



Wall: Onyx Avorio Polished — 120x280 cm
Floor: Euphoria Gold Polished — 60x120 cm

Novelty

Euphoria Gold

Available other sizes upon demand. For more detail
please contact sales department.



60x120 cm
IMF2400R-P
Polished | 7 Faces
Thickness: 9 mm

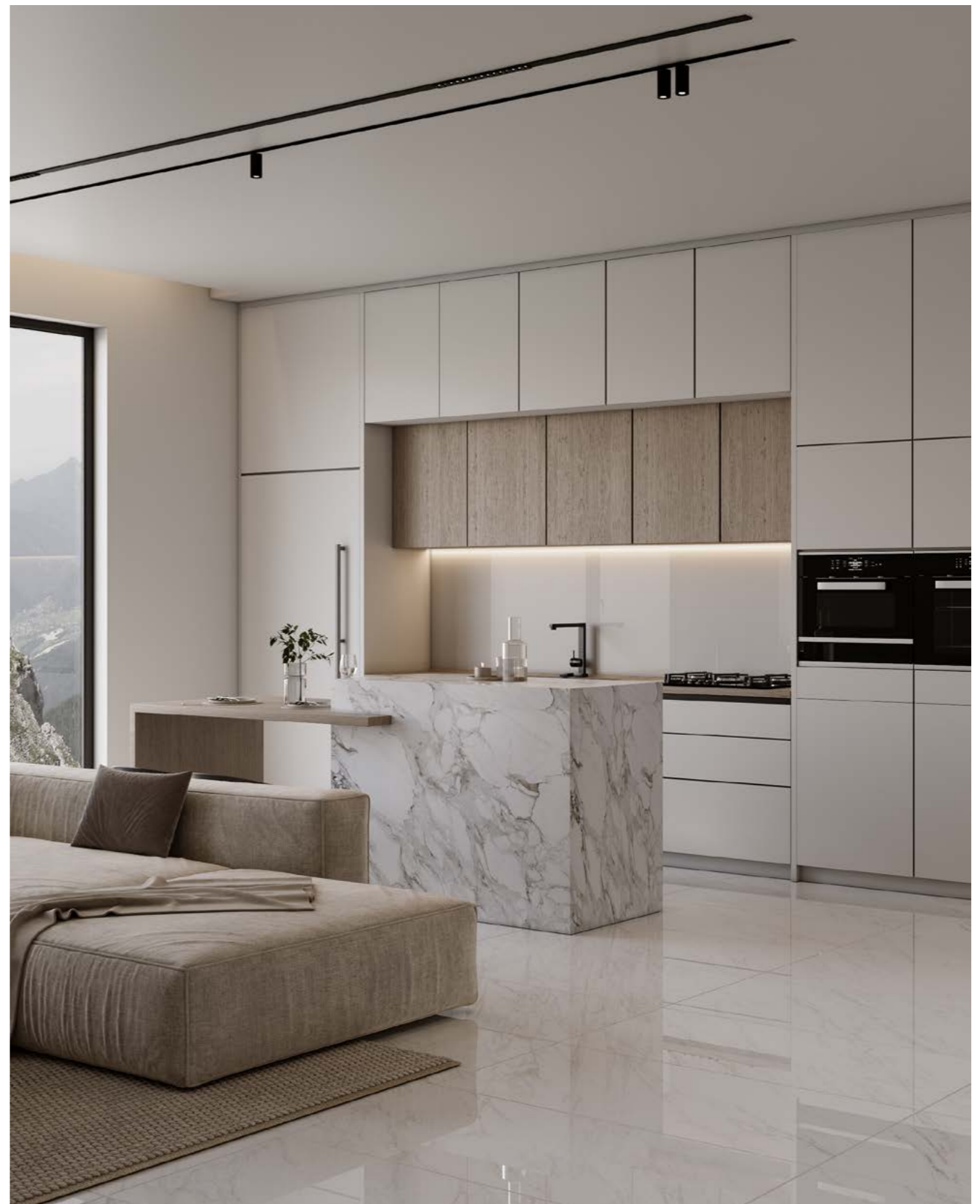


Marmi White

Marmi is inspired by the timeless beauty of Italian Carrara marble. This design features a pristine white background enriched with soft grey gradients, bringing a sense of lightness and tranquility. The polished surface of Marmi amplifies elegance and luminosity, making it an ideal choice for various styles, including classic and contemporary interior designs.



Wall: Miracle Green Polished — 120x280 cm
Floor: Marmi White Polished — 60x120 cm





Novelty

Marmi White

Available other sizes upon demand. For more detail
please contact sales department.



60x120 cm
IMF2405R-P
Polished | 9 Faces
Thickness: 9 mm



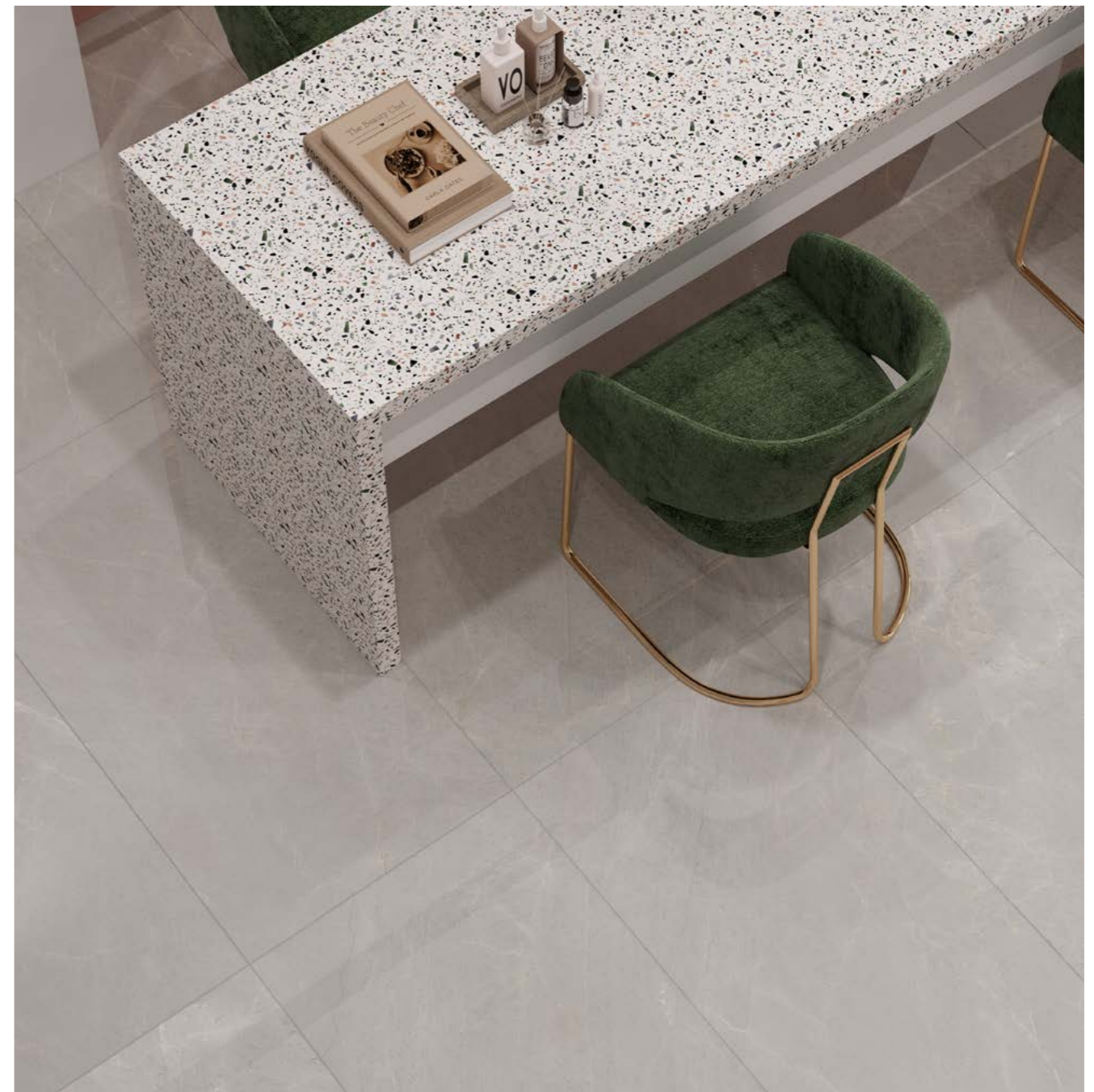
Floor: Marmi White Polished — 60x120 cm



Floor: Splendor Polished — 60x120 cm

Splendor

Polished surface of Splendor enhances its rich colors and intricate details, adding depth and sophistication. Durable and easy to maintain, Splendor suits various applications, from residential to commercial projects. The gray tone with golden veins complements different styles, while transforming any space by bringing luxury and refinement to the collection.





Floor: Splendor Polished — 60x120 cm



Novelty

Splendor

Available other sizes upon demand. For more detail
please contact sales department.



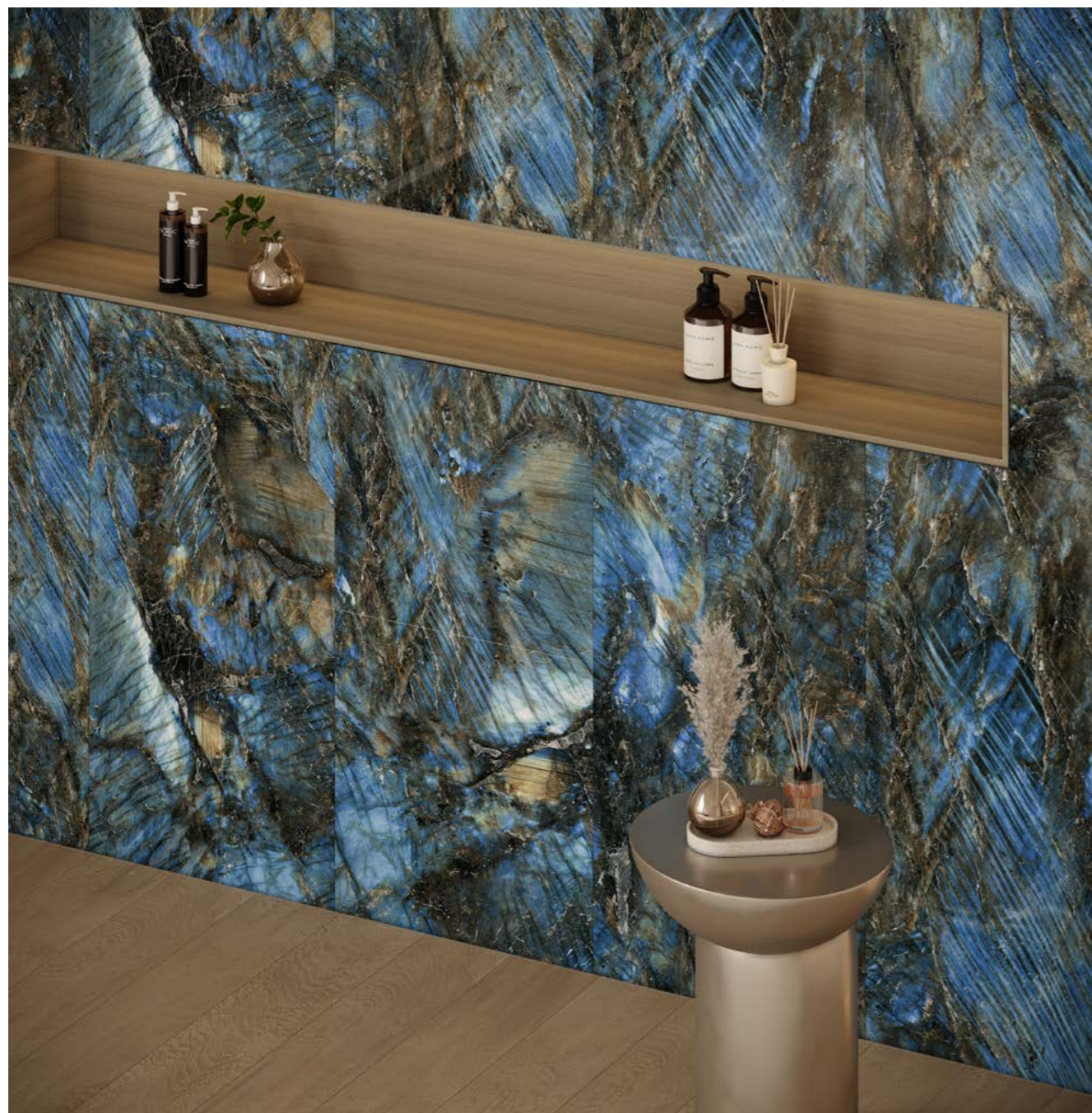
Floor: Splendor Polished — 60x120 cm



60x120 cm
IMF2410R-P
Polished | 8 Faces
Thickness: 9 mm

Labradorite

Labradorite is a Canadian remarkable natural stone which is known for its healing and protective properties. Labradorite's legend talks about a warrior releasing the light trapped inside the stone. It captivates viewers with glowing highlights and an intricate texture containing dark veins and diagonal threads of blue shades. Green, gold and brown hints subtly intermingle with the predominant ultramarine blue background. This product offers elegance and sophistication with a dynamic and luxurious look.



Wall: Labradorite Polished — 60x120 cm
Floor: Pacific Natural and The Style Base
Natural Evo-dry — 120x280 cm



Wall: Labradorite Polished — 60x120 cm
and Onyx Avario Polished — 120x280 cm

Floor: Pacific Natural and The Style Base
Natural Evo-dry — 120x280 cm



Wall: Labradorite Polished — 60x120 cm and
Pacific Natural — 120x280 cm
Floor: Pacific Natural — 120x280 cm

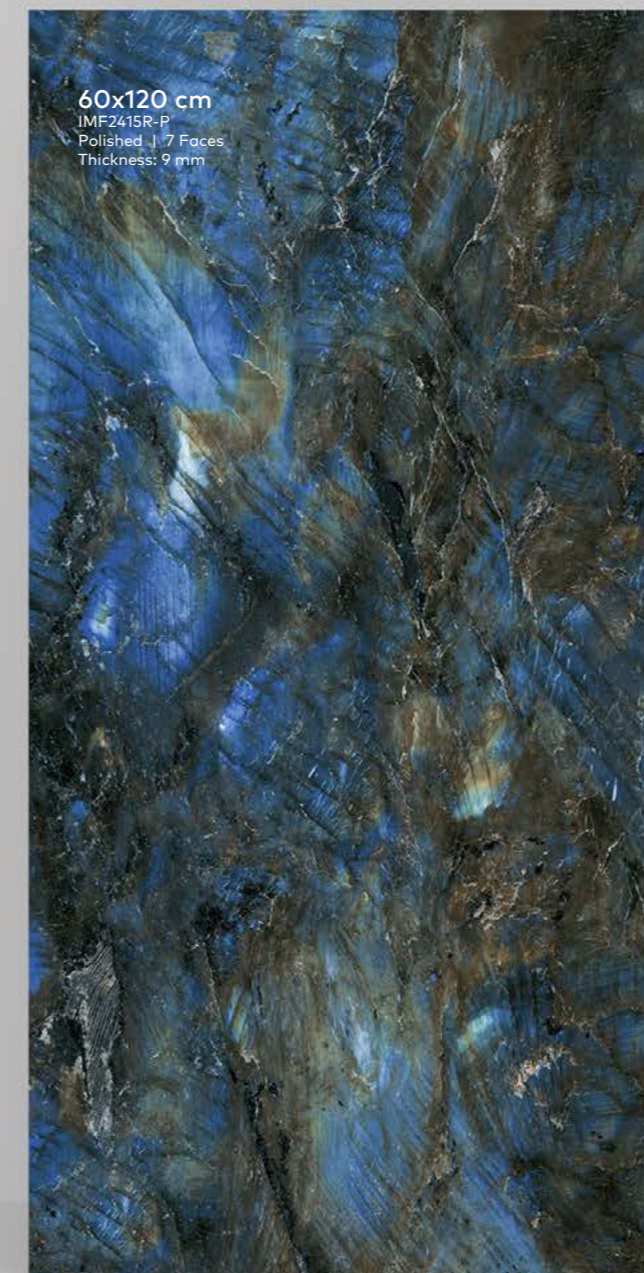


Wall: Labradorite Polished — 60x120 cm and
Pacific Natural — 120x280 cm
Floor: Pacific Natural — 120x280 cm

Novelty

Labradorite

Available other sizes upon demand. For more detail
please contact sales department.



Angelite

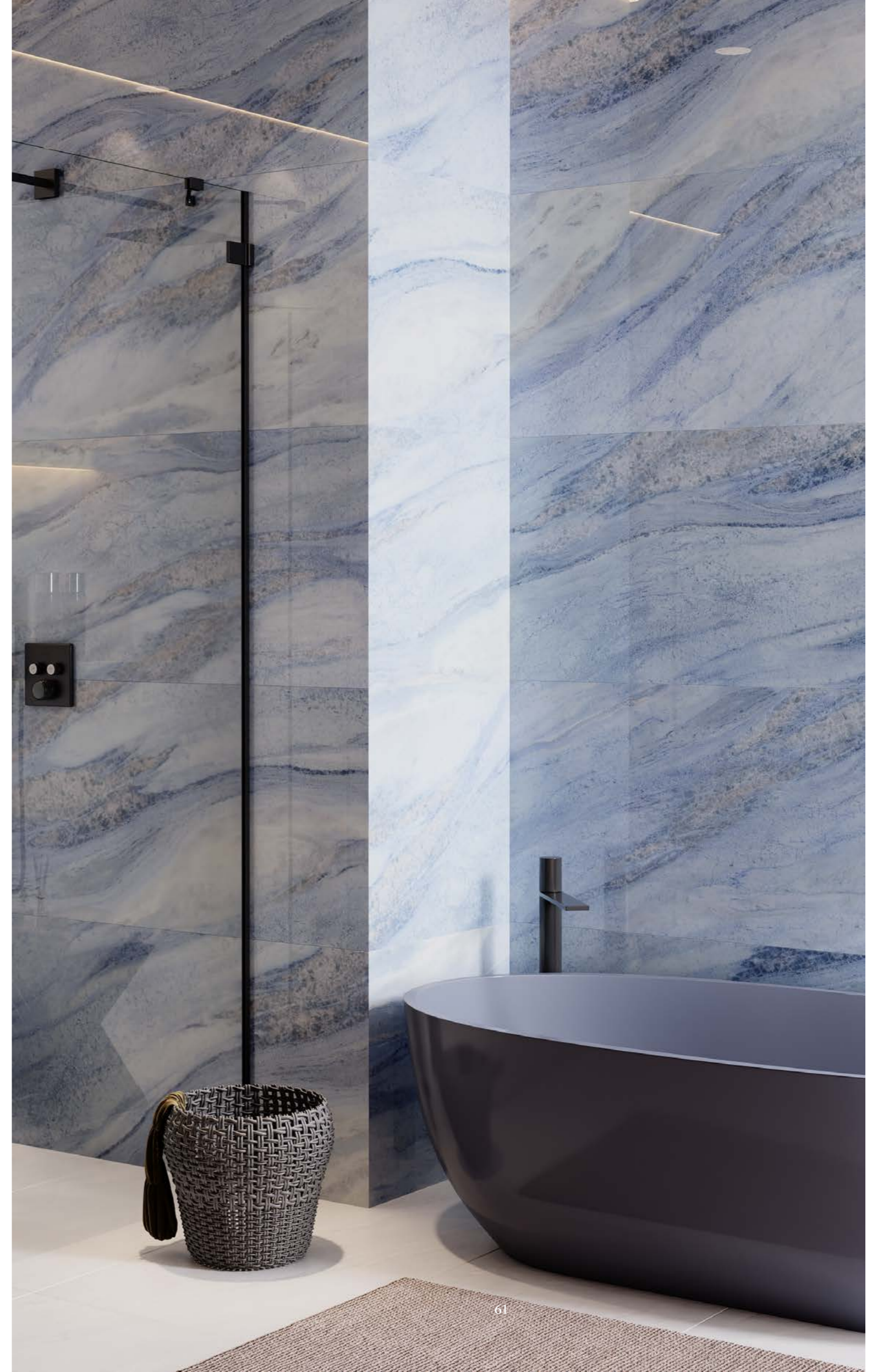
Angelite's attributes originate from Brazilian Quartzite, which is believed to have meditative uplifting energies. This design features interplaying blue hues amid white waves, reminding of clouds and ocean waves. The vivid crystals and ethereal spots add to its mesmerizing beauty. The blue tone in this product was developed exclusively to evoke a sense of serenity and sophistication. For discerning architects in search of uniqueness and exceptionality, Angelite offers an unparalleled choice.



Wall: Angelite Polished — 60x120 cm
Floor: Pacific Natural — 120x280 cm



Wall: Angelite Polished — 60x120 cm
Floor: Pacific Natural — 60x120 cm





Wall: Angelite Polished — 60x120 cm
Floor: Pacific Natural — 60x120 cm

Novelty

Angelite

Available other sizes upon demand. For more detail
please contact sales department.



60x120 cm
IMF2430R-P
Polished 1 9 Faces
Thickness: 9 mm



Floor: Volcano Marble Polished — 60x120 cm



Volcano

Volcano captures the rough aesthetic nature of volcanic rock formations. Dynamic gold and brown veins carve their way through the texture, mimicking the flow of hot lava over rugged terrain. The polished surface enhances the rich colors and delicate details, adding refinement and depth to the design. The deep black background, interspersed with earthy tonalities, white veins, and warm colors, embodies both natural strength and artistic elegance.



Floor: Volcano Marble Polished — 60x120 cm



Novelty

Volcano Marble

Available other sizes upon demand. For more detail
please contact sales department.



60x120 cm
IMF2425R-P
Polished | 8 Faces
Thickness: 9 mm

Floor: Volcano Marble Polished — 60x120 cm



Onyx Avorio

Onyx Avorio is a unique and very elegant marble with a wonderful selection of white and gold hues a long with distinctive veining on an ivory background have been carefully drawn together to create a cloudy, transparent effects and natural texture which draws the eye and exudes a dignified personality. The simple beauty of neutral marble tones and milky veining create the essence of pairing with a wide variety of styles and evoking an exquisite three-dimensional impression.



Wall: Onyx Avorio Polished — 120x280 cm
Floor: Onyx Avorio Polished — 120x280 cm





Wall: Onyx Avorio Polished — 120x280 cm
Floor: Onyx Avorio Polished — 120x280 cm





Wall: Vena Vecchia Polished — 120x280 cm
Floor: Onyx Avorio Polished — 60x120 cm

Novelty

Onyx Avorio

Available other sizes upon demand. For more detail
please contact sales department.



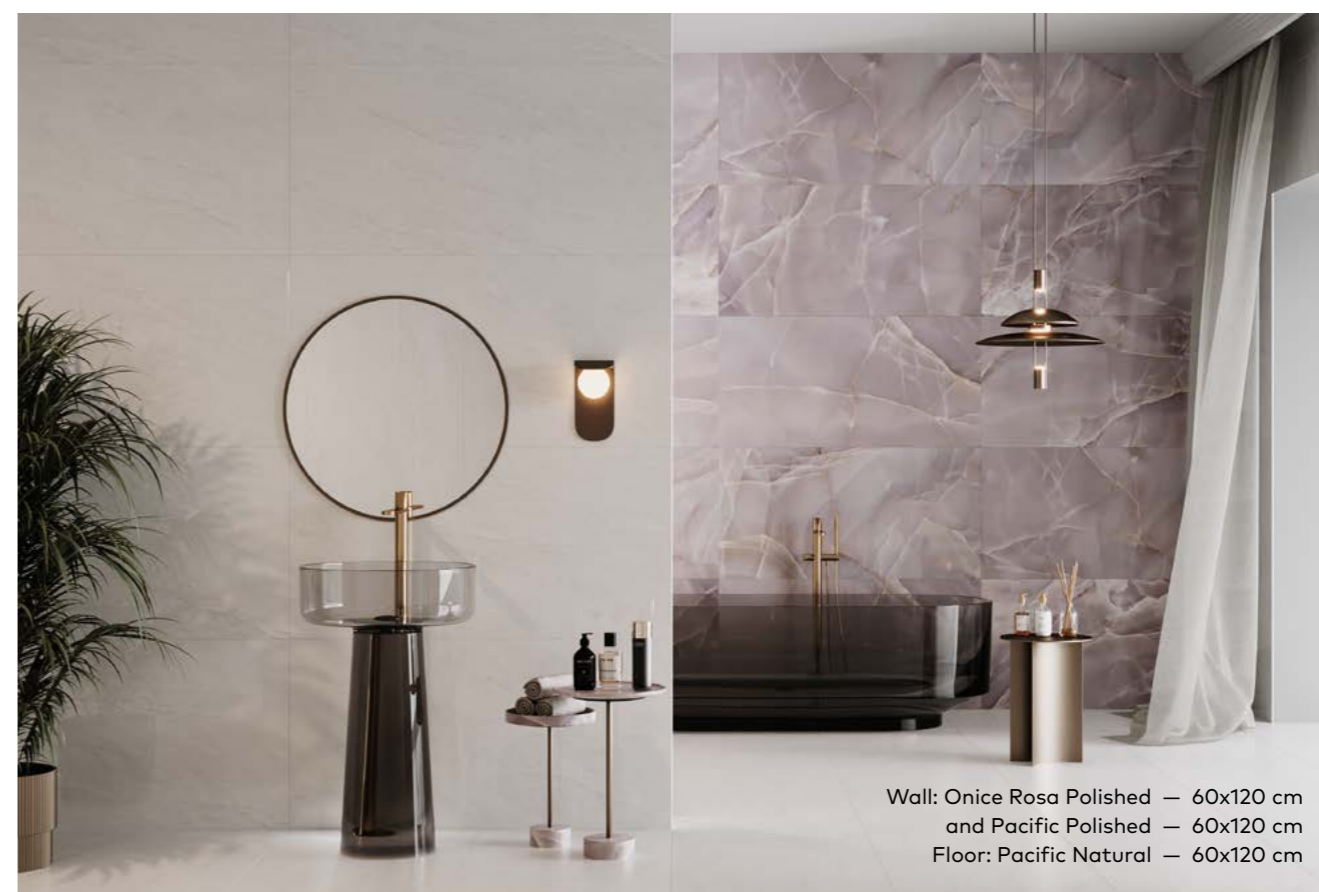
120x280 cm
IM2305L-P
Polished | 5 Faces
Thickness: 9 mm



60x120 cm
IMF2305R-P
Polished | 8 Faces
Thickness: 9 mm

Onice

Onice is inspired by the timeless beauty of onyx marble, evoking the grandeur of ancient Roman palaces. Its light hues intertwined with delicate veining and gold touches, create a sophisticated and ethereal effect. The polished surface along with three exquisite tonalities Mint, Aqua, and Rosa enhance its elegance and radiance. Onice is perfect for residential and commercial spaces, adding serene and stylish charm with timeless elegance.



Wall: Onice Rosa Polished — 60x120 cm
and Pacific Polished — 60x120 cm
Floor: Pacific Natural — 60x120 cm



Wall: Onice Rosa Polished — 60x120 cm
Floor: Pacific Polished — 120x280 cm



Wall: Onice Aqua Polished — 60x120 cm
and Pacific Polished — 60x120 cm
Floor: Pacific Natural — 60x120 cm

Novelty

Onice

Available other sizes upon demand. For more detail
please contact sales department.







Floor: Reflection Navy Galaxy Matte — 60x120 cm



Novelty

Reflection

Available other sizes upon demand. For more detail
please contact sales department.



Floor: Reflection Navy Galaxy Matte — 60x120 cm





Floor: Level Beige-grey Matte — 60x120 cm



Level

Level evokes the modern appeal of homogeneous concrete surfaces. Its uniform warm grey tone, enhanced by subtle trowel traces, resonates with refined contemporary aesthetics. Additionally, Level features an elaborate rough texture resembling a natural concrete relief. Available in five sophisticated shades—Light Grey, Grey, Dark Grey, Beige Grey, and Black—Level offers a unique backdrop for any space, giving it an everlasting fashionable look.



Floor: Level Dark grey Matte — 60x120 cm



Wall: Level Light Grey Matte — 60x120 cm
Floor: Level Light Grey Matte — 60x120 cm

Wash Basin: Level Grey Matte





Wall: Level Light Grey Matte — 60x120 cm
 Floor: Level Light Grey Matte — 60x120 cm

Wash Basin: Level Grey Matte

Novelty

Level



Available other sizes upon demand. For more detail
 please contact sales department.





Crafting Elegance with Spanish Soul

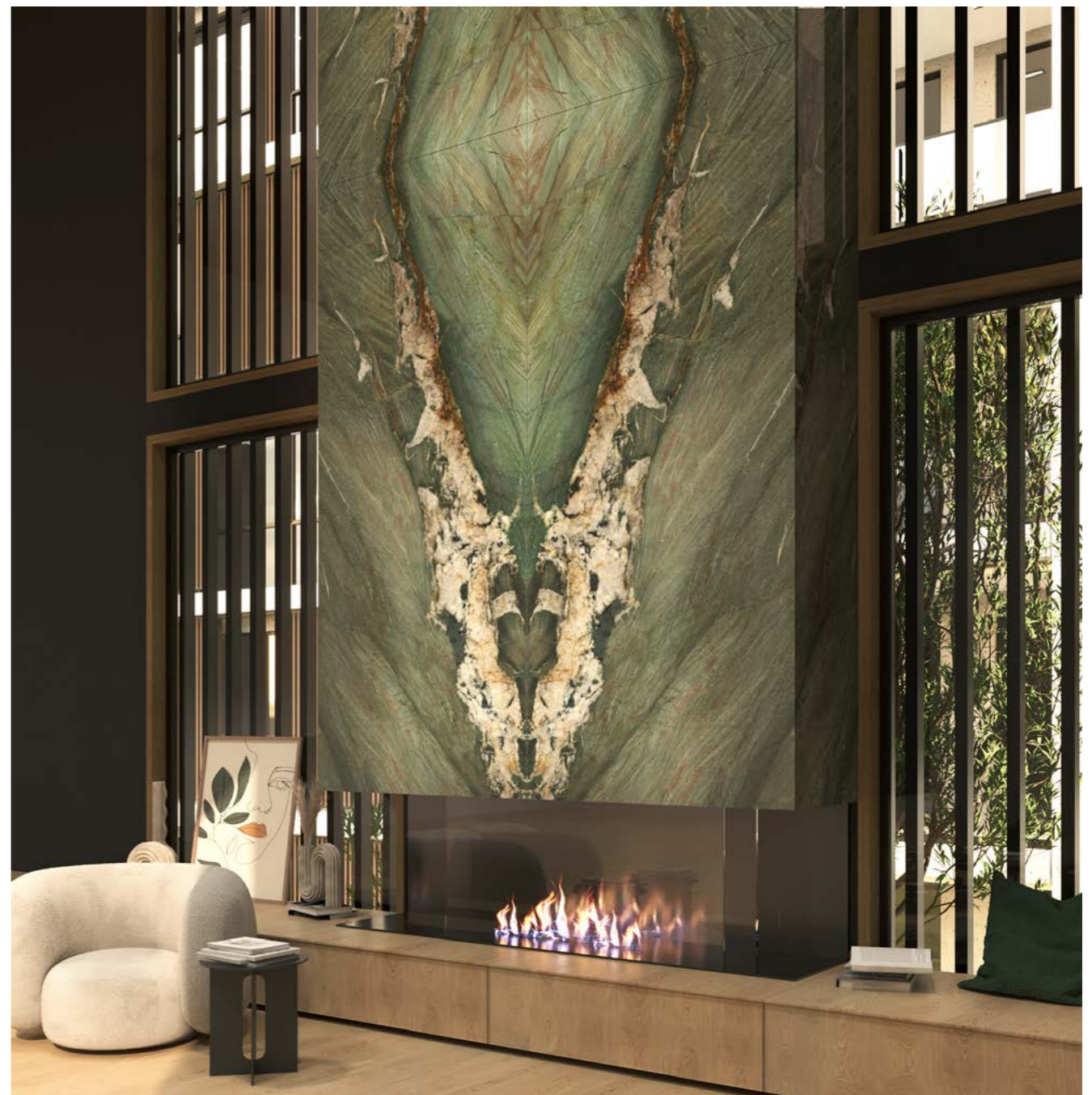
Live the Spanish Tradition

Essence of Spanish Craftsmanship in Ceramics. At Imperio, our Spanish roots are more than a heritage; they are a hallmark of excellence and authenticity in ceramic craftsmanship. Nestled in the heart of Spain, our brand embodies the vibrant culture, artistic history, and passionate spirit of our homeland. Each Imperio piece is a testament to the meticulous artistry and innovative spirit that Spanish artisans are renowned for.

We blend the timeless beauty of Spanish designs with contemporary aesthetics, creating ceramics that are not just functional, but also pieces of cultural artistry. The warm hues, intricate patterns, and exquisite textures in our products are inspired by Spain's rich artistic legacy, offering our customers a piece of Spanish elegance in their everyday lives. With Imperio, you don't just bring home ceramics; you bring home a piece of Spain.

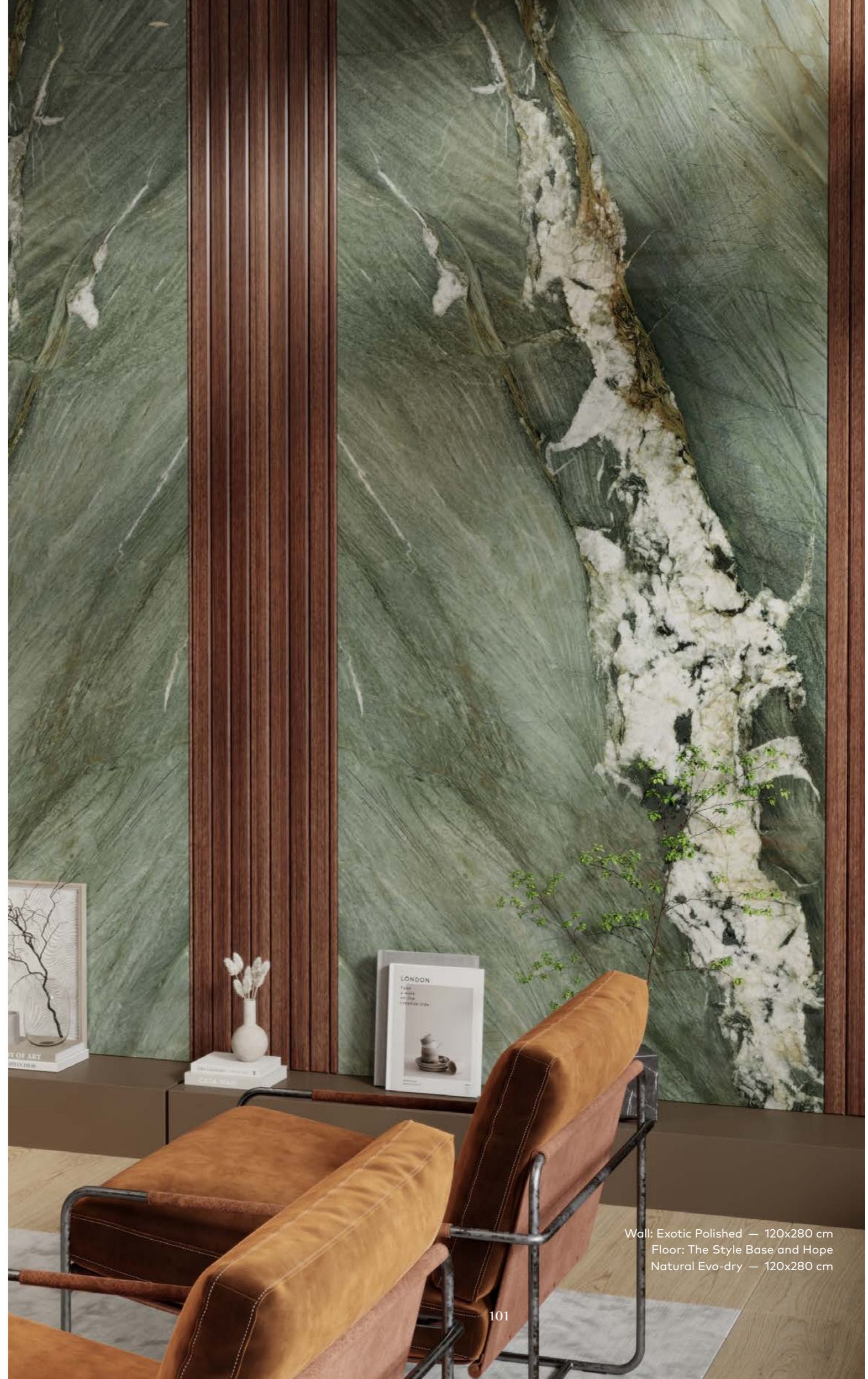


Wall: Exotic Polished — 120x280 cm
Floor: The Style Base Natural — 120x280 cm

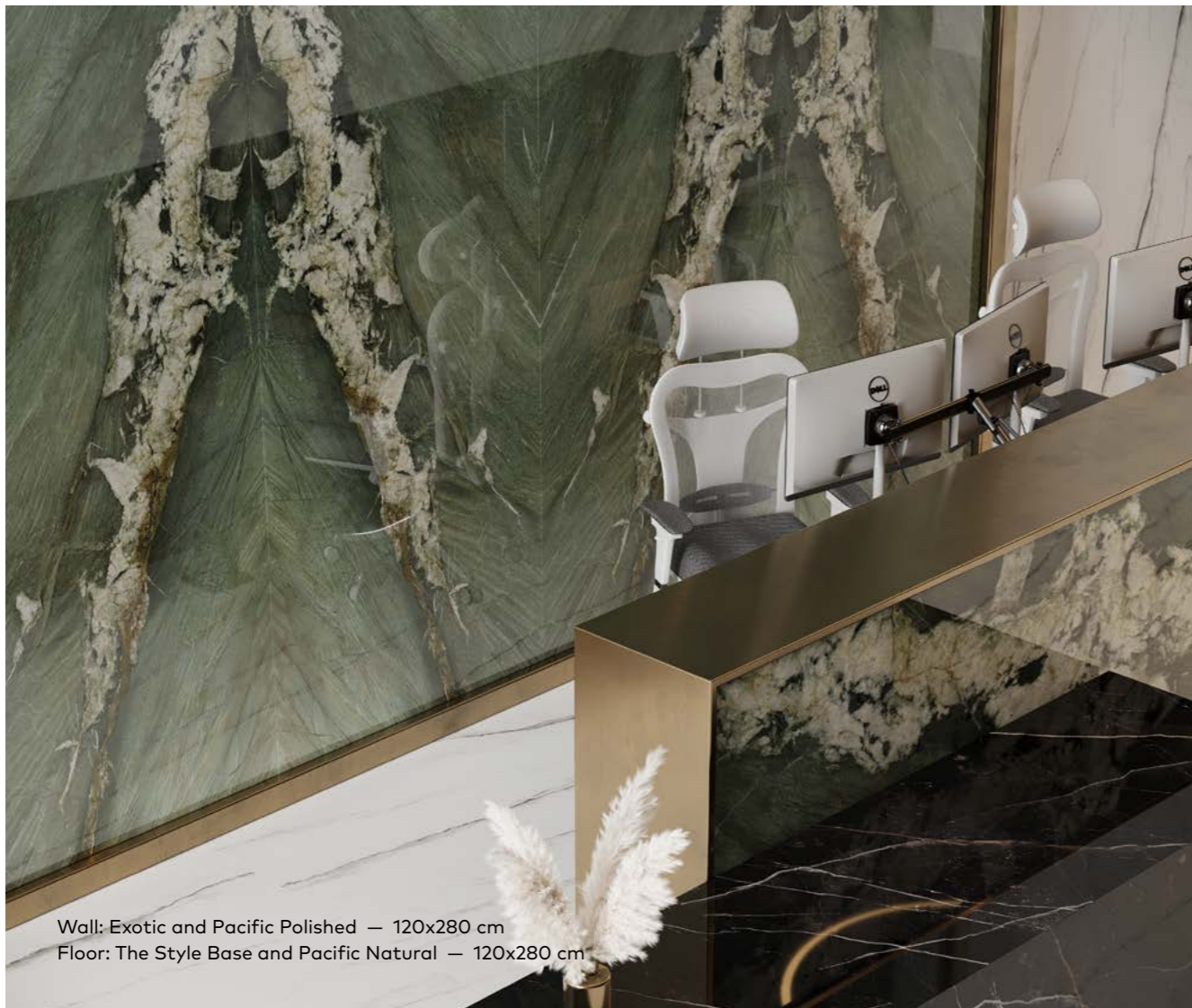


Exotic

Exotic is inspired by the Brazilian Patagonia Green Quartzite which is an exquisite natural stone. This luxurious exotic quartz unveils a mixture of vibrant color palettes and impressive lush greens, adorned with bold veining that intertwines to create an intense canvas enriched with earthy shades of amber and gold. Step into the realm of luxury with "Exotic" and its stunning bookmatch pattern.



Wall: Exotic Polished — 120x280 cm
Floor: The Style Base and Hope
Natural Evo-dry — 120x280 cm

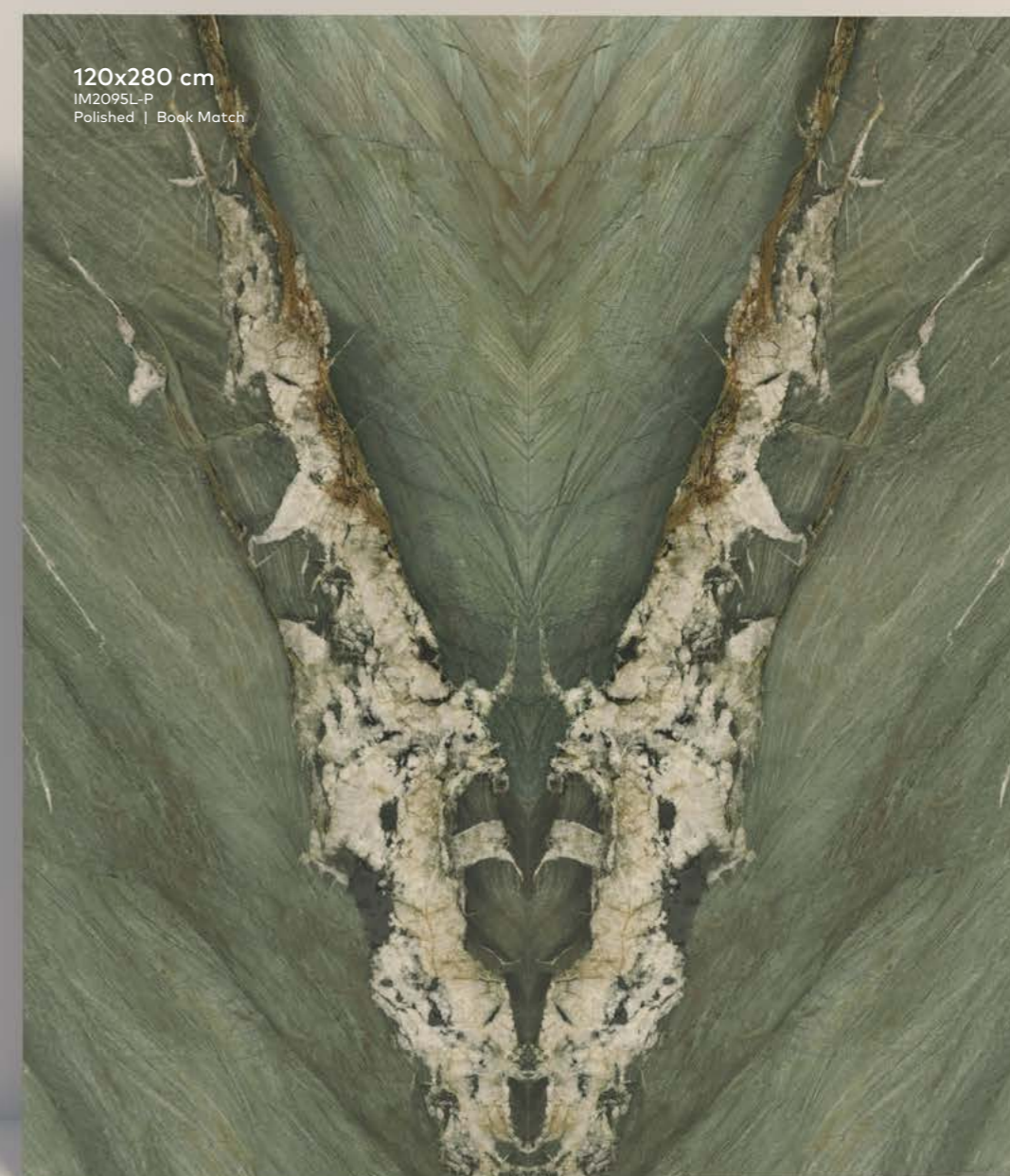




Exotic



Actual product colors may slightly vary from the images shown. Note that minor deviations could be possible at the faces' intersections.

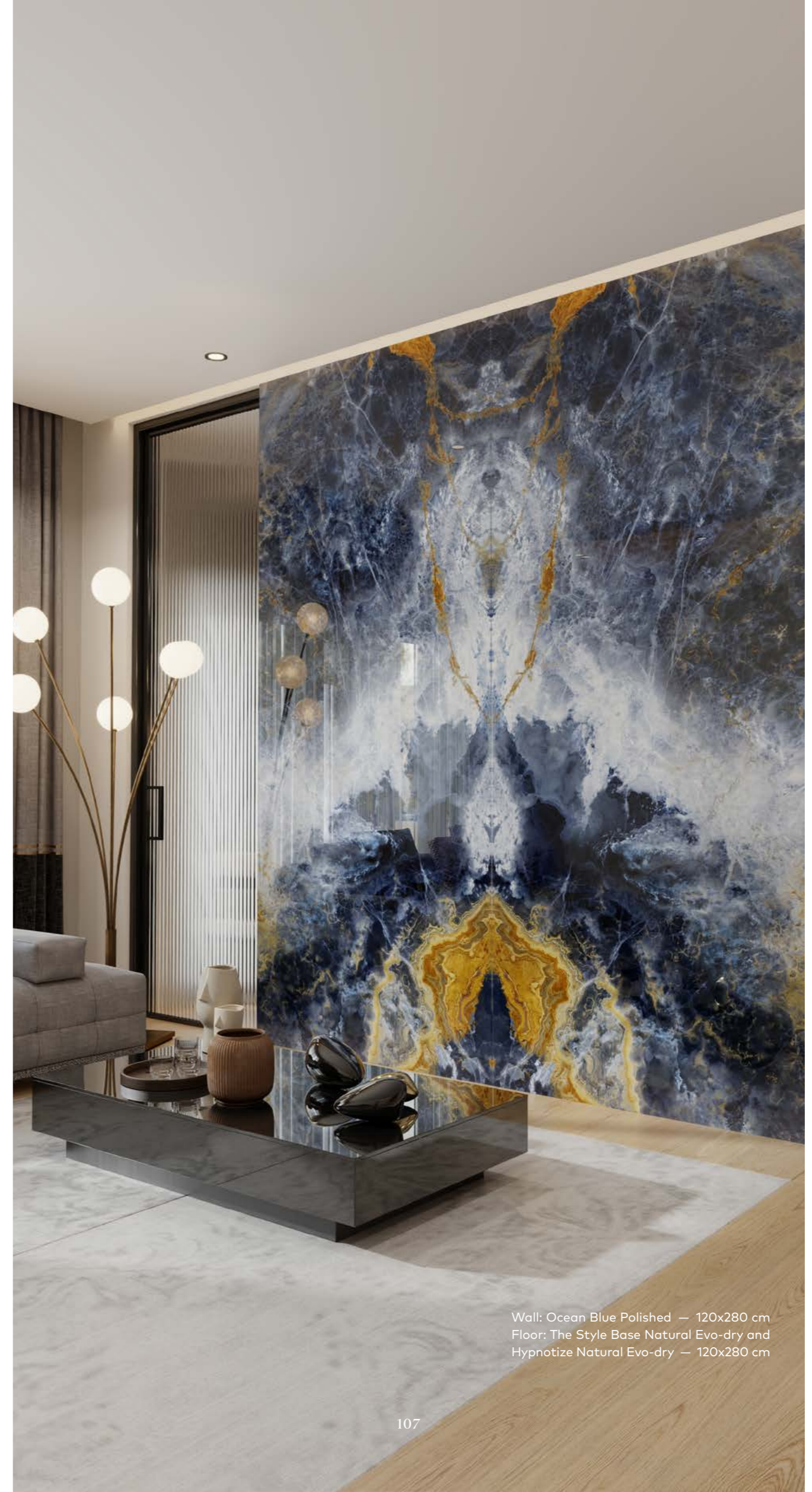


120x280 cm
IM2095L-P
Polished | Book Match

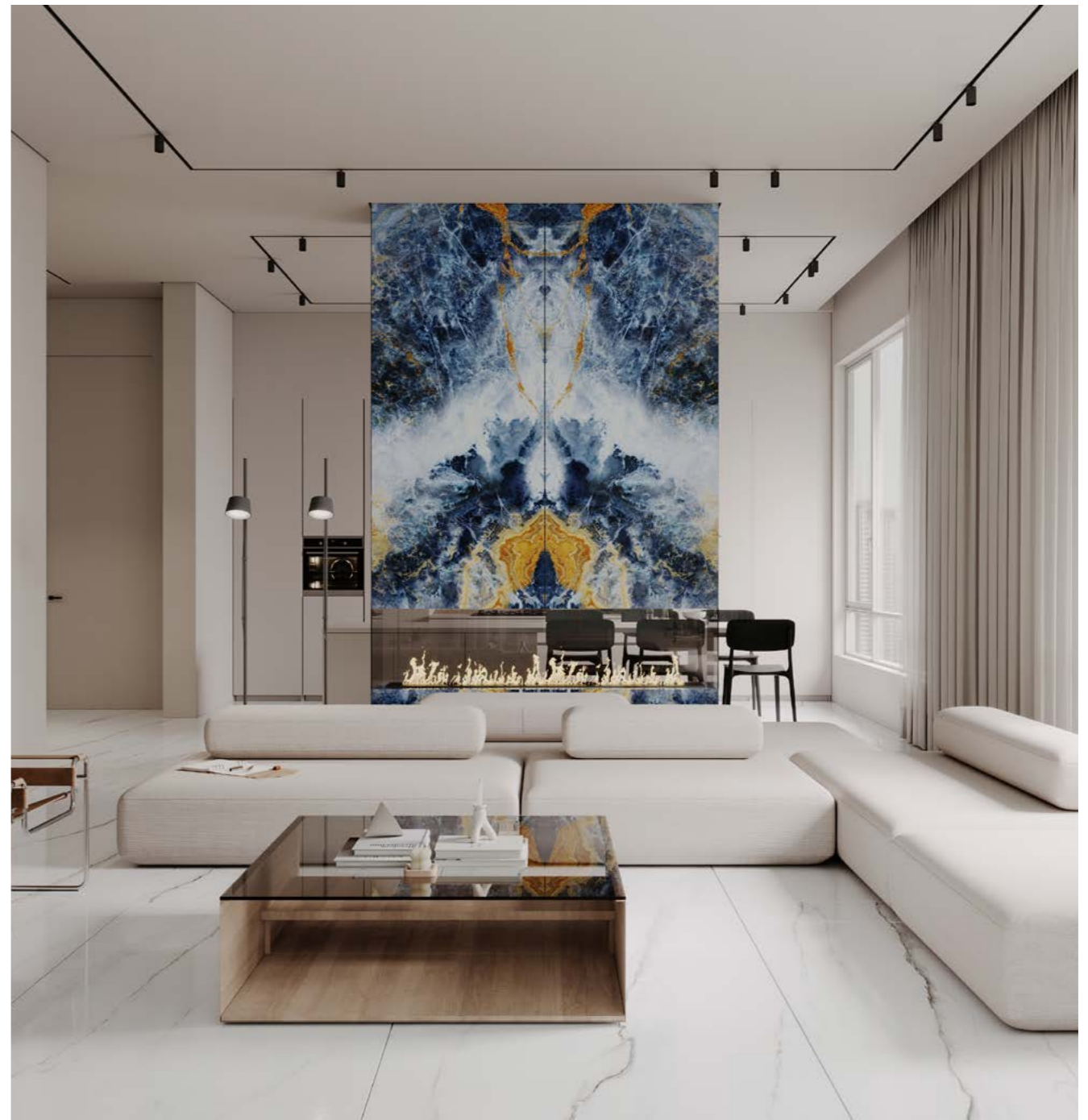


Ocean Blue

Ocean Blue has a unique shade of blue that is complemented by special orange highlights, creating an unforgettable and inspiring combination. Its chromatic depth evokes the enchanting waves and swirling shades of the sea. Explore its intricate details and mesmerizing colors from every angle, as the blue large slabs are guaranteed to elevate any surface, imparting a luxurious aesthetic to the objects or spaces you cherish.



Wall: Ocean Blue Polished — 120x280 cm
Floor: The Style Base Natural Evo-dry and
Hypnotize Natural Evo-dry — 120x280 cm



Wall: Ocean Blue Polished — 120x280 cm
Floor: Polaris Polished — 120x280 cm



Wall: Ocean Blue Polished — 120x280 cm
Floor: The Style Base Natural Evo-dry — 120x280 cm



Ocean Blue



Note that minor deviations could be possible at the faces' intersections.



Wall: Ocean Blue Polished — 120x280 cm
Floor: The Style Base Natural Evo-dry and
Hypnotize Natural Evo-dry — 120x280 cm





Countertop and Backsplash: Perla Venata Polished — 120x280 cm
 Floor: Perla Venata Polished — 120x280 cm



Perla Venata

Perla Venata a Brazilian quartzite, embodies the essence of elegance in its simplicity, magnifying any space it adorns. What distinguishes this quartzite isn't solely the conspicuous golden veins, but also the unique crystallization effects it exhibits. These exceptional attributes contribute to the unique textures that envelop the stone, resulting in a profound sense of depth, even in its natural finish state.



Wall: Perla Venata Polished — 120x280 cm
Floor: The Style Base Natural Evo-dry — 120x280 cm



HOT DRINKS

- Espresso
- Latte
- Mocha
- Cappuccino
- Americano
- Hot Chocolate
- Doppio

TEA

- Green Tea
- Black Tea
- Mint Tea
- White Tea
- Macchiato
- Vanilla Tea
- Cold Green Tea

ICED DRINKS

- Iced Espresso
- Iced Latte
- Iced Mocha
- Iced Cappuccino
- Iced Americano
- Iced Hot Chocolate
- Iced Doppio

Wall: Perla Venata Polished — 120x280 cm
Floor: The Style Base Natural Evo-dry — 120x280 cm



Wall: Perla Venata Polished — 120x280 cm
Floor: The Style Base Natural Evo-dry — 120x280 cm

Wash Basin: Perla Venata Polished

Perla Venata

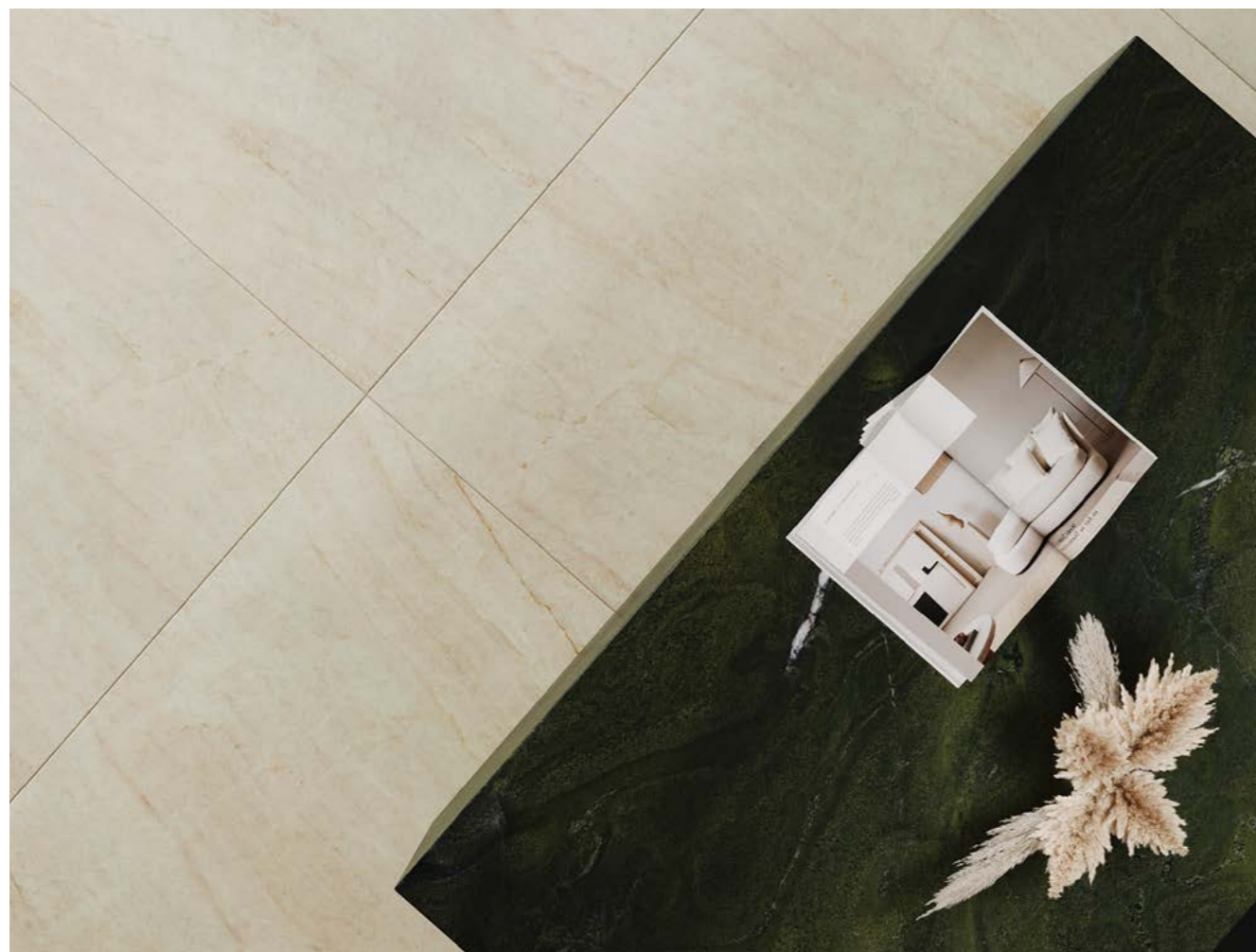
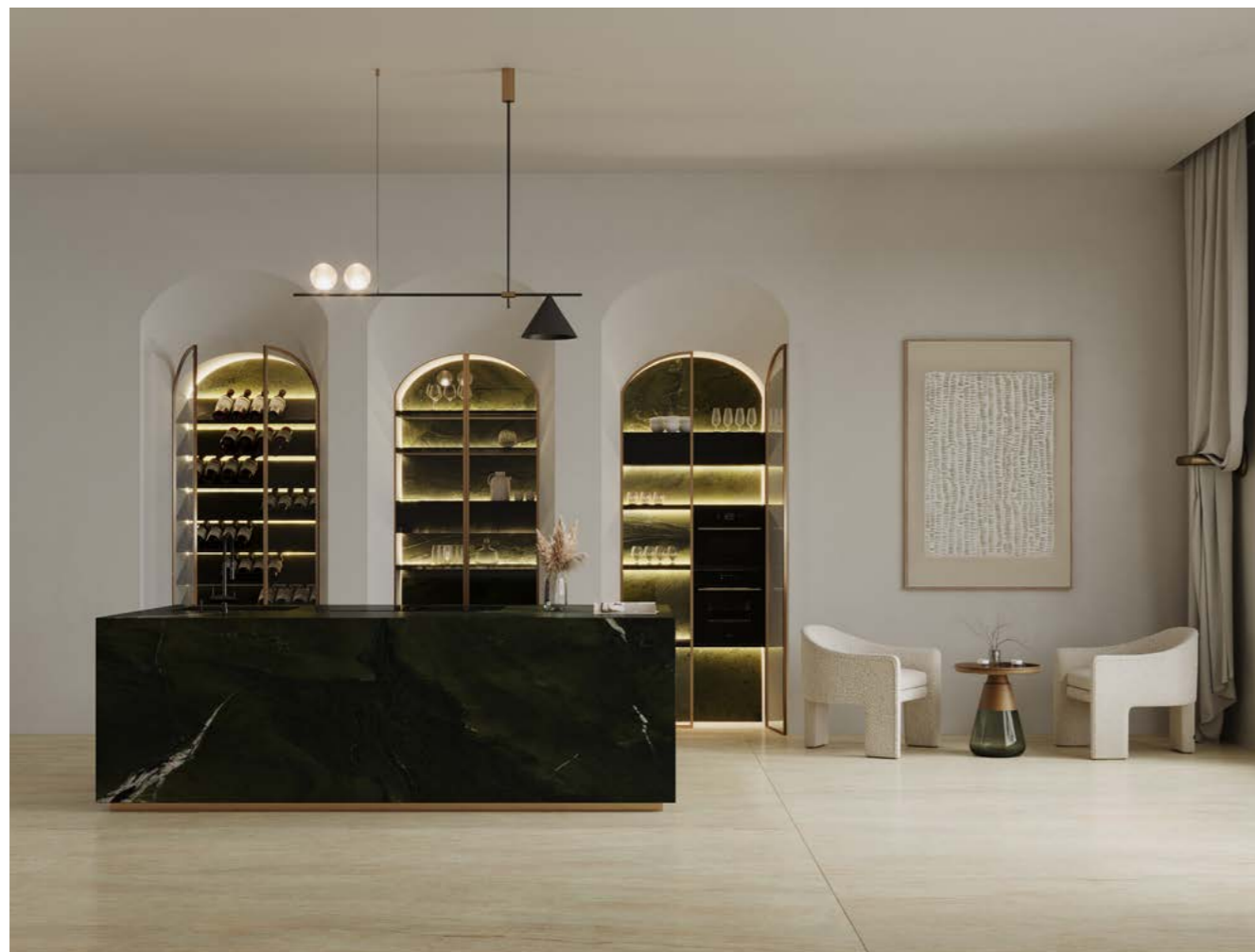
Available other sizes upon demand. For more detail
please contact sales department.



120x280 cm
IM2075L-P
Polished | 5 Faces

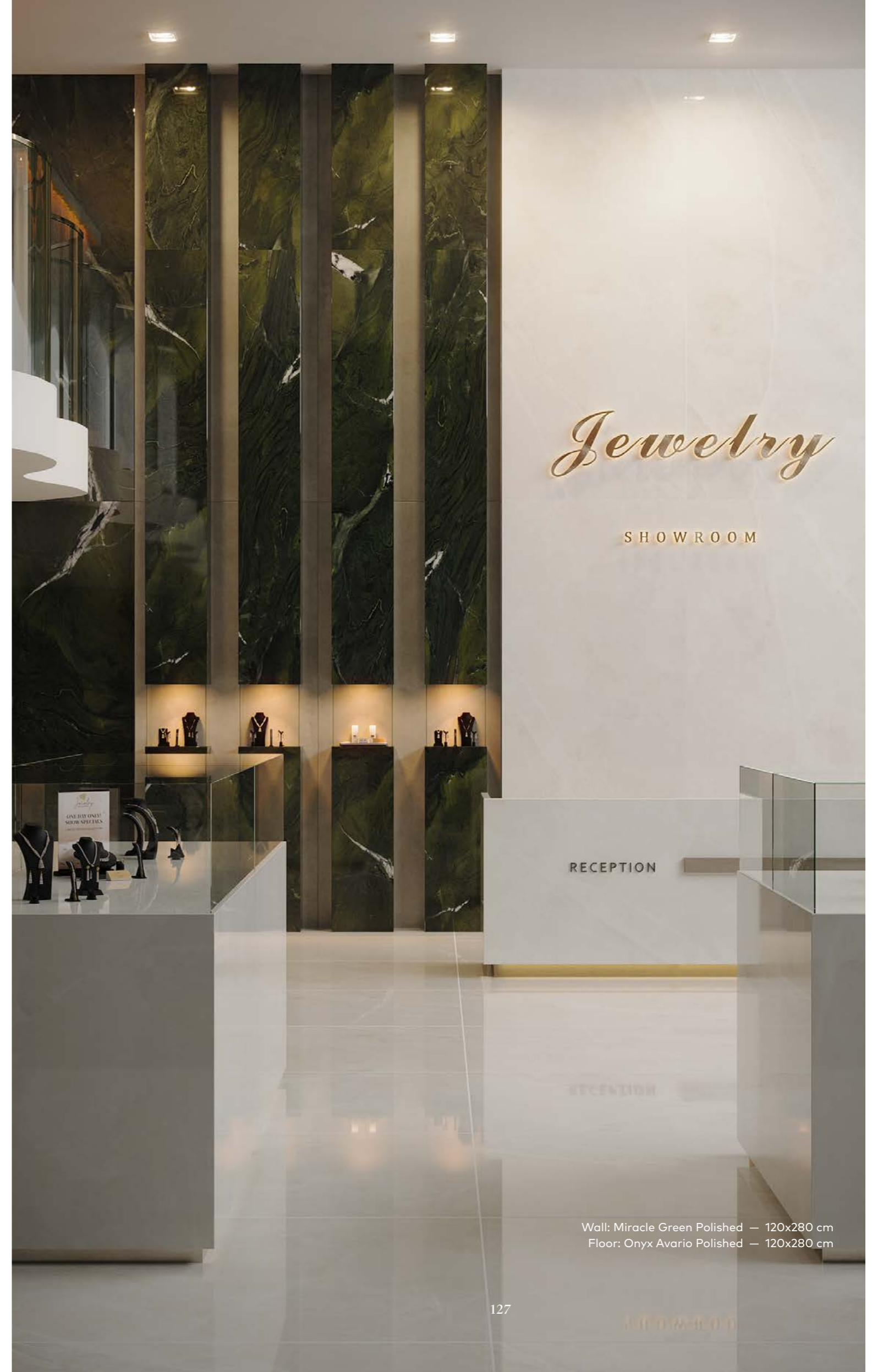
Wall: Miracle Green Polished — 120x280 cm
Floor: Polaris and Miracle Green Polished — 120x280 cm



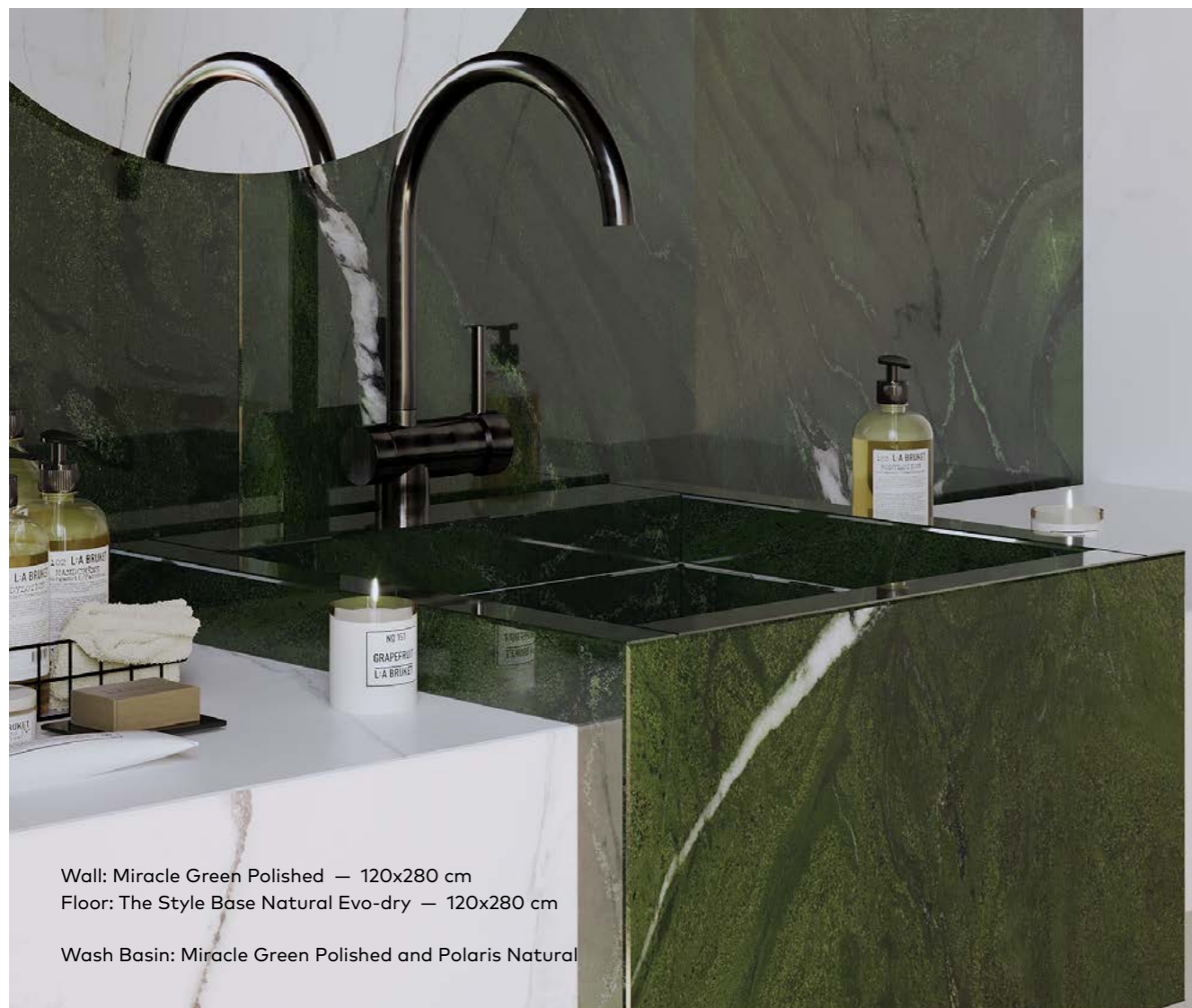


Counter : Miracle Green Polished — 120x280 cm
Floor: Perla Venata Polished — 120x280 cm





Wall: Miracle Green Polished — 120x280 cm
Floor: Onyx Avario Polished — 120x280 cm



Wall: Miracle Green Polished — 120x280 cm
 Floor: The Style Base Natural Evo-dry — 120x280 cm
 Wash Basin: Miracle Green Polished and Polaris Natural

Miracle Green

Available other sizes upon demand. For more detail
 please contact sales department.

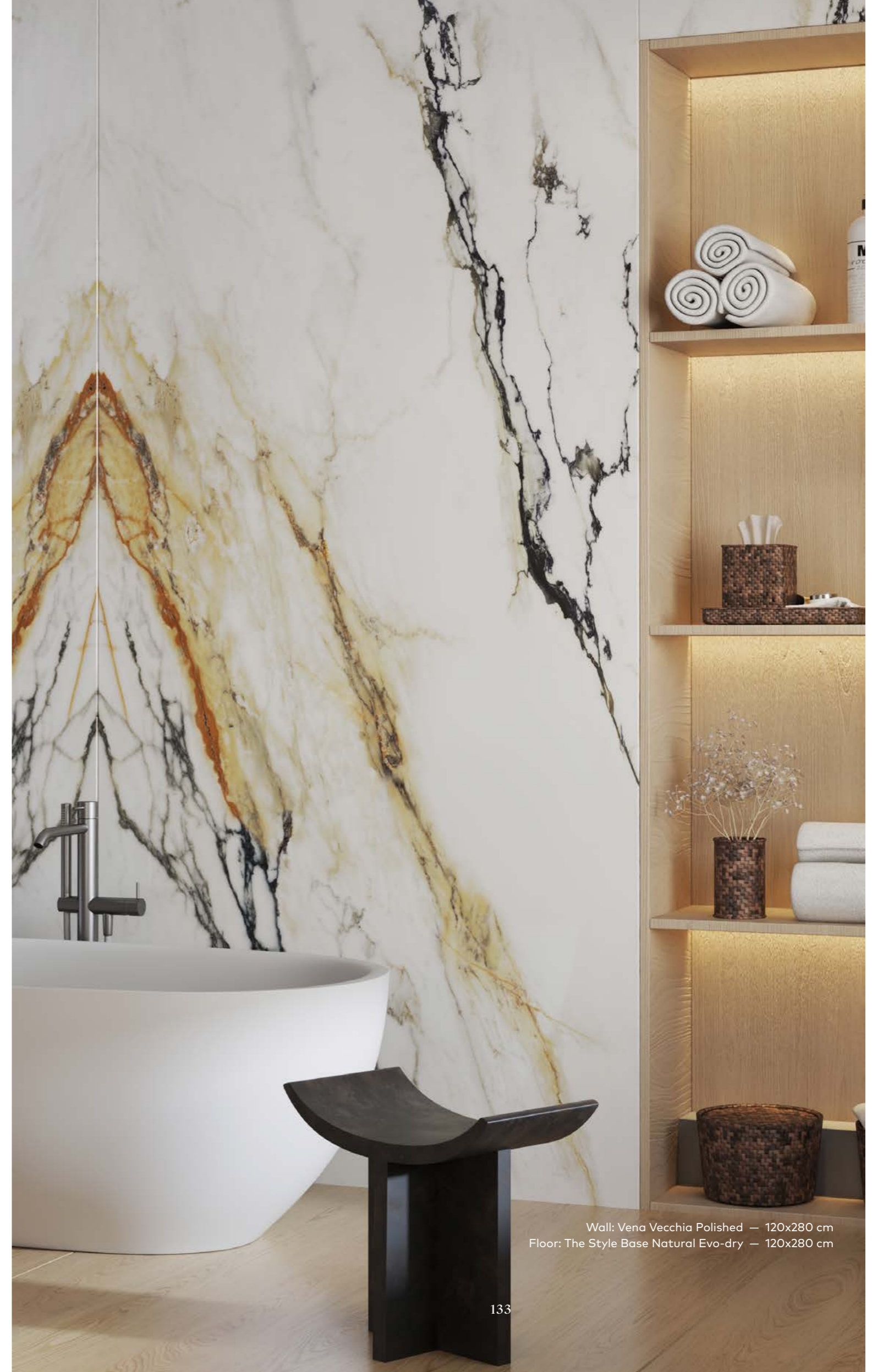


Vena Vecchia

Vena Vecchia is a remarkable natural stone design that boasts an elegant ivory appearance complemented by a delicate combination of caramel and merlot veins. golden flecks interspersed throughout the stone add a touch of glamour, making this marble a timeless classic with high decorative value. This exquisite marble is sourced from the Carrara region of Italy. varying intensities of grey and rusty gold veins beautifully wind their way across a beige backdrop, contributing to the unrivaled character of each slab. The result is a stunning and inimitable design that is sure to make a statement in any space.



Wall: Vena Vecchia Polished — 120x280 cm
Floor: The Style Base Natural Evo-dry — 120x280 cm



Wall: Vena Vecchia Polished — 120x280 cm
Floor: The Style Base Natural Evo-dry — 120x280 cm



Wall: Vena Vecchia Polished — 120x280 cm
Floor: The Style Base Natural Evo-dry — 120x280 cm

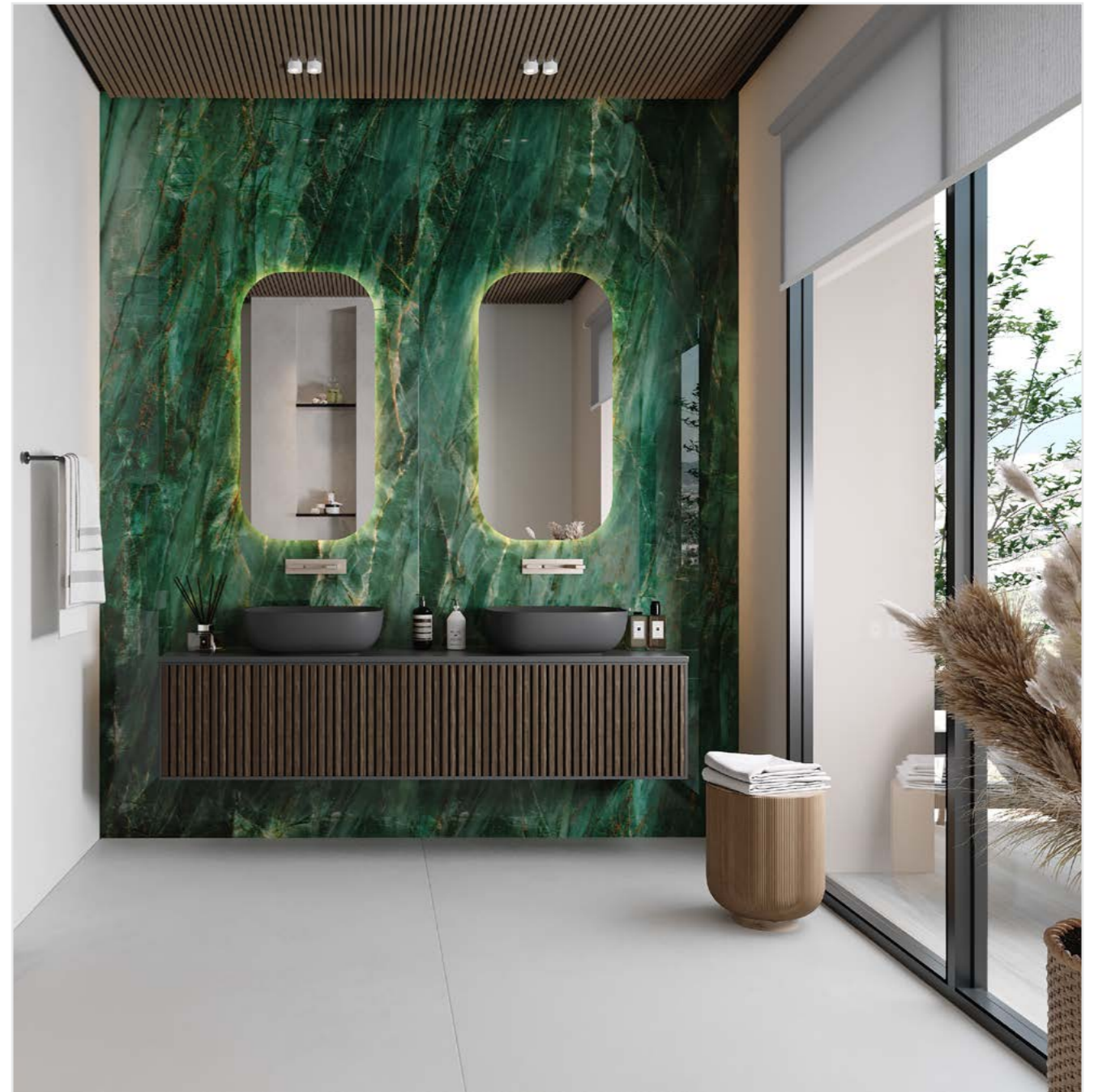
Vena Vecchia



Note that minor deviations could be possible at the faces' intersections.



120x280 cm
IM2085L-P
Polished | Book Match



Aurora

Aurora was born by extraordinary details from amalgamating luxury green color, highlighting the golden veins, to lighting up golden shades of the material. To design and develop Aurora an exceptional amount of work has gone into researching and technically perfecting the final product. The outcome is a luxurious and glamorous masterpiece in each and every slab, a perfect choice to enrich interior designs.



Wall: Aurora Polished and Pacific Natural — 120x280 cm
Floor: Pacific Natural — 120x280 cm





Wall: Aurora Polished — 120x280 cm

Aurora



Available other sizes upon demand. For more detail
please contact sales department.





Polaris

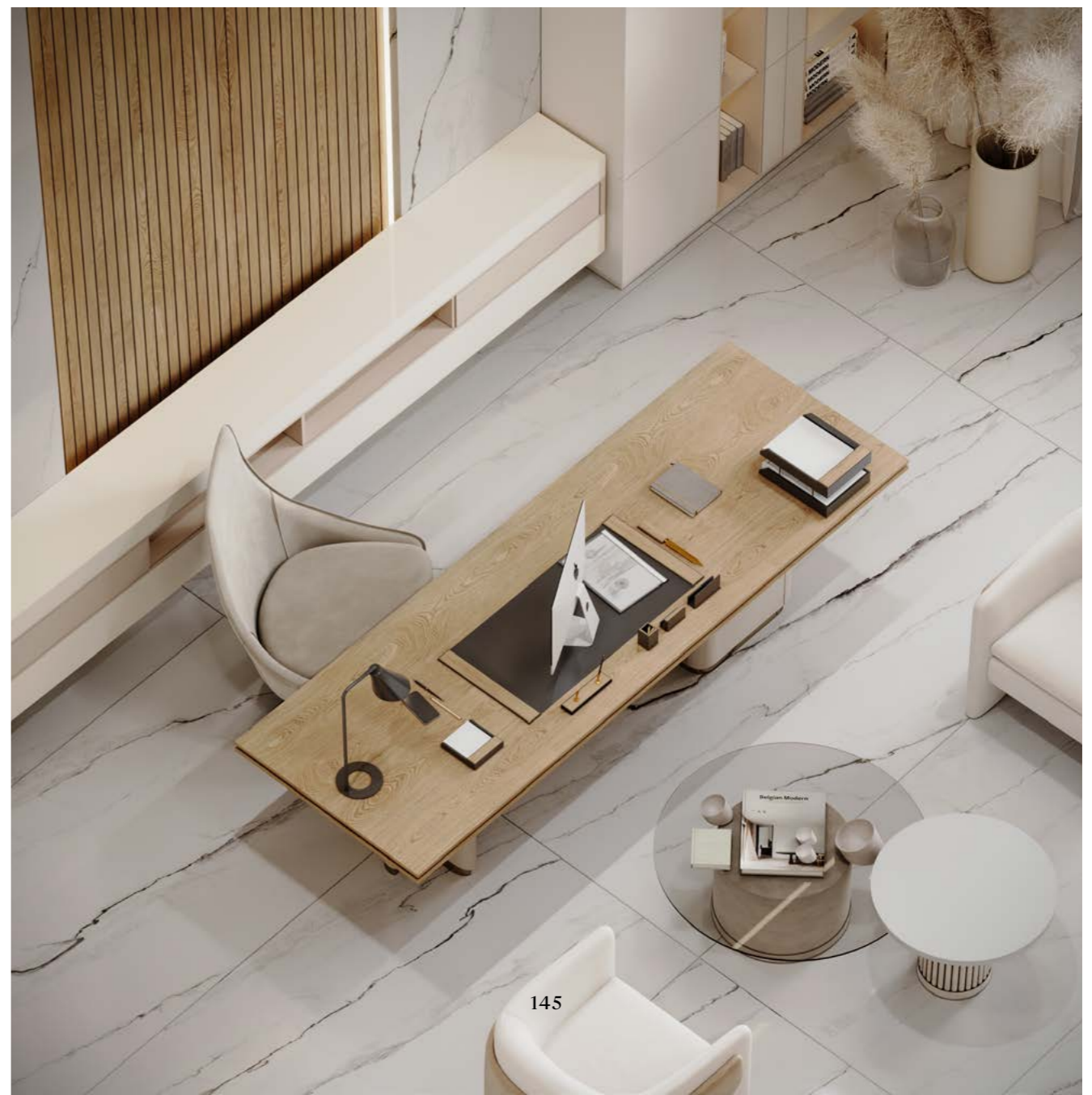
Polaris is a new approach to modernity. Polaris has a pure white and homogeneous texture and exceptional charming linear black veins that brings minimal and modern concepts to your settings. Black and white dualism is the heart of Polaris. It sums up the purity and beauty of natural materials that creates functional and modern environments in multi-faced designs.



Wall: Polaris Natural — 120x280 cm
Floor: The Style Base Natural — 120x280 cm



Wall: Polaris Polished — 120x280 cm
Floor: Polaris Polished — 120x280 cm





Floor: Polaris Polished — 120x280 cm





Floor: Polaris Polished — 120x280 cm

Polaris



Available other sizes upon demand. For more detail please contact sales department.



160x320 cm
IM2025X-P
Polished | 4 Faces

IM2025X-N
Natural | 4 Faces

120x280 cm
IM2025L-P
Polished | 5 Faces

IM2025L-N
Natural | 5 Faces

80x160 cm
IM2025C-P
Polished | 8 Faces

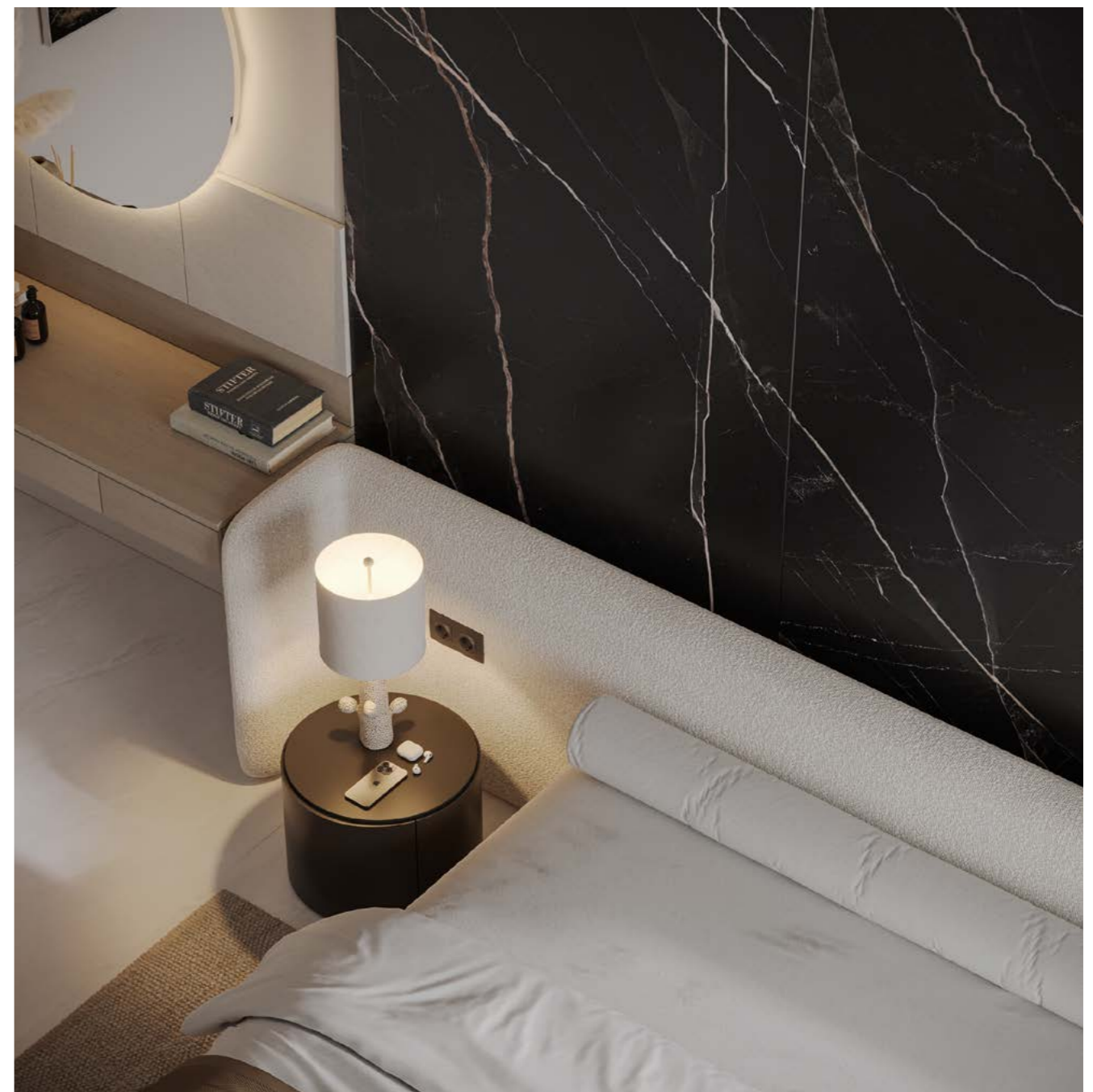
IM2025C-M
Matte | 8 Faces



Wall: Mystic Black Natural — 120x280 cm
Floor: Pacific Natural — 120x280 cm

Mystic Black

Mystic Black is an artistic marble with unique white and golden longitudinal delicate veins and deep black background. The contrast of its background and veins accompanied with moderate shades produce a refine and irreplaceable material in the world of modern luxury.





Wall: Mystic Black Natural — 120x280 cm
Floor: Pacific Natural — 120x280 cm



Wall: Mystic Black Polished — 120x280 cm
Floor: Polaris Natural — 120x280 cm



Floor: Mystic Black Polished — 120x280 cm

Mystic Black

Available other sizes upon demand. For more detail
please contact sales department.





Invisible Gold

Invisible Gold is characterized by its white background and intertwined light golden and grey veins. Warp and weft veining creates a perfect structure which brings elegance to your spaces. This design in its polished surface appears as a jewel, in a brilliant texture which let you dress up and furnish spaces with a total look that has astonishing and glorious effect.





Wall: Invisible Gold Polished — 120x280 cm
Box: Invisible Gold Polished



Wall: Invisible Gold Polished — 120x280 cm
Box: Invisible Gold Polished





Counter: Invisible Gold Polished — 120x280 cm

Invisible Gold

Available other sizes upon demand. For more detail
please contact sales department.



120x280 cm
IM2040L-P
Polished | 5 Faces



Atlantis Black

Atlantis Black with a strong personality will add a great accent to stylish and elegant projects. Its saturated nature, sharp and vivid veins and dense background provide a visually charismatic pattern which makes this product a great choice for designers with different tastes.



Wall: Atlantis Black Polished and
The Syle Base Natural Evo-dry — 120x280
Floor: The Style Base Natural Evo-dry — 120x280 cm



Wall: Atlantis Black Polished — 120x280 cm
Floor: Fantastic Grey Polished — 120x280 cm



Wall: Atlantis Black Polished and The Syle Base Natural Evo-dry — 120x280
Floor: The Style Base Natural Evo-dry — 120x280 cm

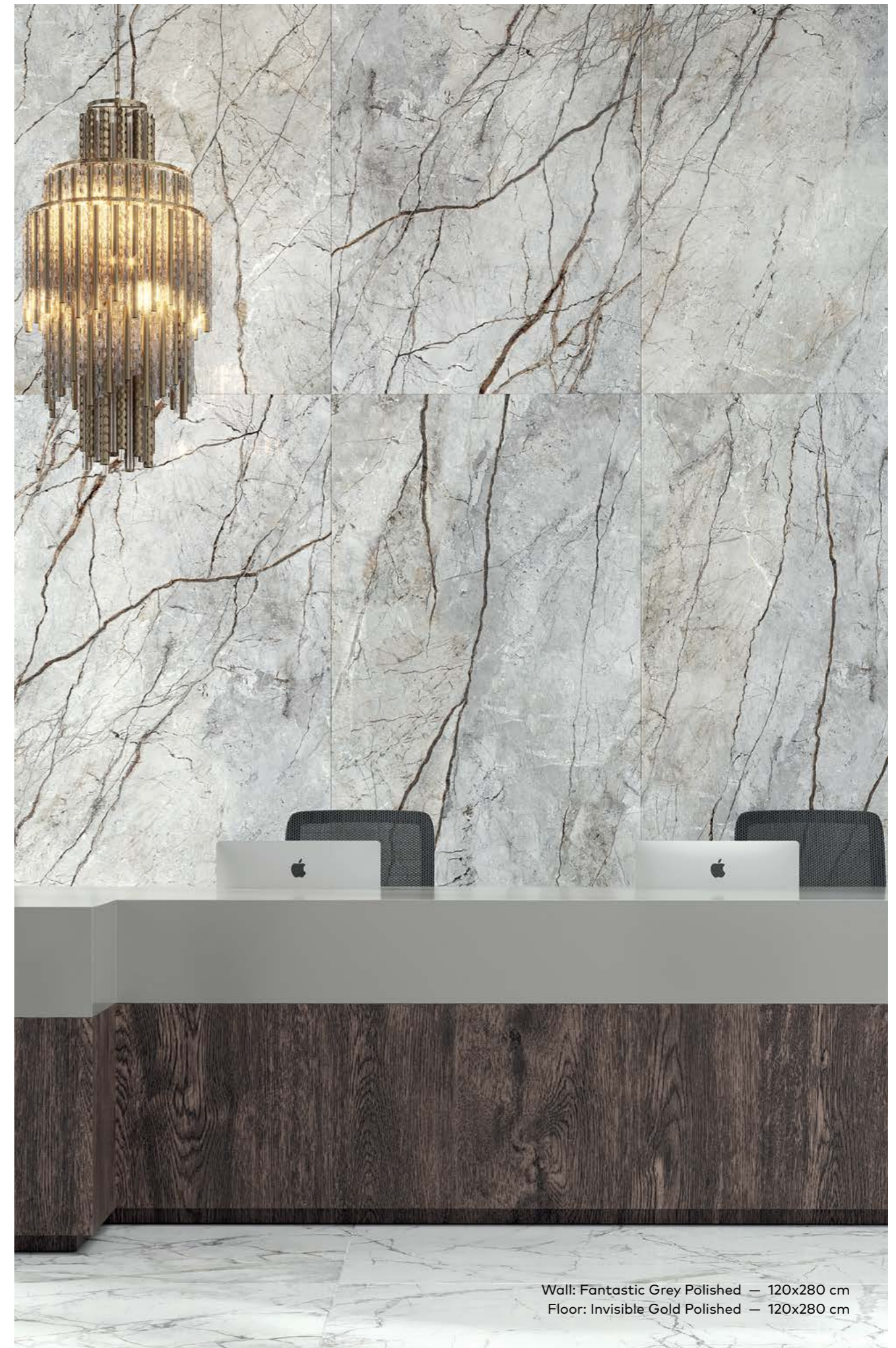
Atlantis Black

Note that minor deviations could be possible at the faces' intersections.



Fantastic Grey

Fantastic grey features a mid-tone grey background with thin dark brown and dark grey veins. Although Fantastic Grey contains lots of details and colors, it yet keeps its grey characteristics. This marble conveys both a touch of elegance and robustness. It is an ideal choice for contemporary and modern interiors. Spaces designed by Fantastic Grey can tell stories with their unique and unforgettable details.



Wall: Fantastic Grey Polished — 120x280 cm
Floor: Invisible Gold Polished — 120x280 cm



Wall: Fantastic Grey Polished — 120x280 cm
Floor: Polaris Natural — 120x280 cm

Wall: Fantastic Grey Polished — 120x280 cm
Floor: Polaris Natural — 120x280 cm



Fantastic Grey

Available other sizes upon demand. For more detail
please contact sales department.





Panda

Panda reflects the art of nature, a white marble with black and green shades moving across its surface. Its eye-catching black veins motivate senses by inviting the viewers to feel its sophisticated chromatic intensity. Black and white combination along with green shades and inclusions in different faces makes a careful balanced pattern and veining that provides a strong personality to the interiors.



Wall: Panda Polished — 120x280 cm
Floor: Polaris Natural — 80x160 cm



Wall: Panda Polished — 120x280 cm







Wall: Panda Polished — 120x280 cm
Floor: Polaris Natural — 120x280 cm

Panda



Note that minor deviations could be possible at the faces' intersections.



120x280 cm
IM2065L-P
Polished | Book Match

Elevating Standards, Crafting Excellence

In an epoch where global standards benchmark quality, IMPERIO endeavors to transcend. Anchored by our avant-garde quality control lab, each ceramic piece evolves into a paragon of perfection. Our alliance with the standards organization amplifies our commitment. At IMPERIO, we don't chase standards; we generate them.



ISO 9001

ISO 9001 is the international standard for quality management system



12/10271

CE marking is an administrative marking that indicates conformity with health, safety, and environmental protection standards for products sold within the European Economic Area.



Modena Centro Prove s.r.l. è un laboratorio di prova che opera nel settore delle analisi chimiche e dei servizi tecnologici.



Laboratorio Cerámico Sebastián Carpi was the first national laboratory tests to be created for the evaluation of the quality of ceramic tiles.



EN 14411

European standard that defines terms and specifications of ceramic tiles



Seramik Araştırma Merkezi
Turkish Ceramic Research Center
Standard testing laboratory

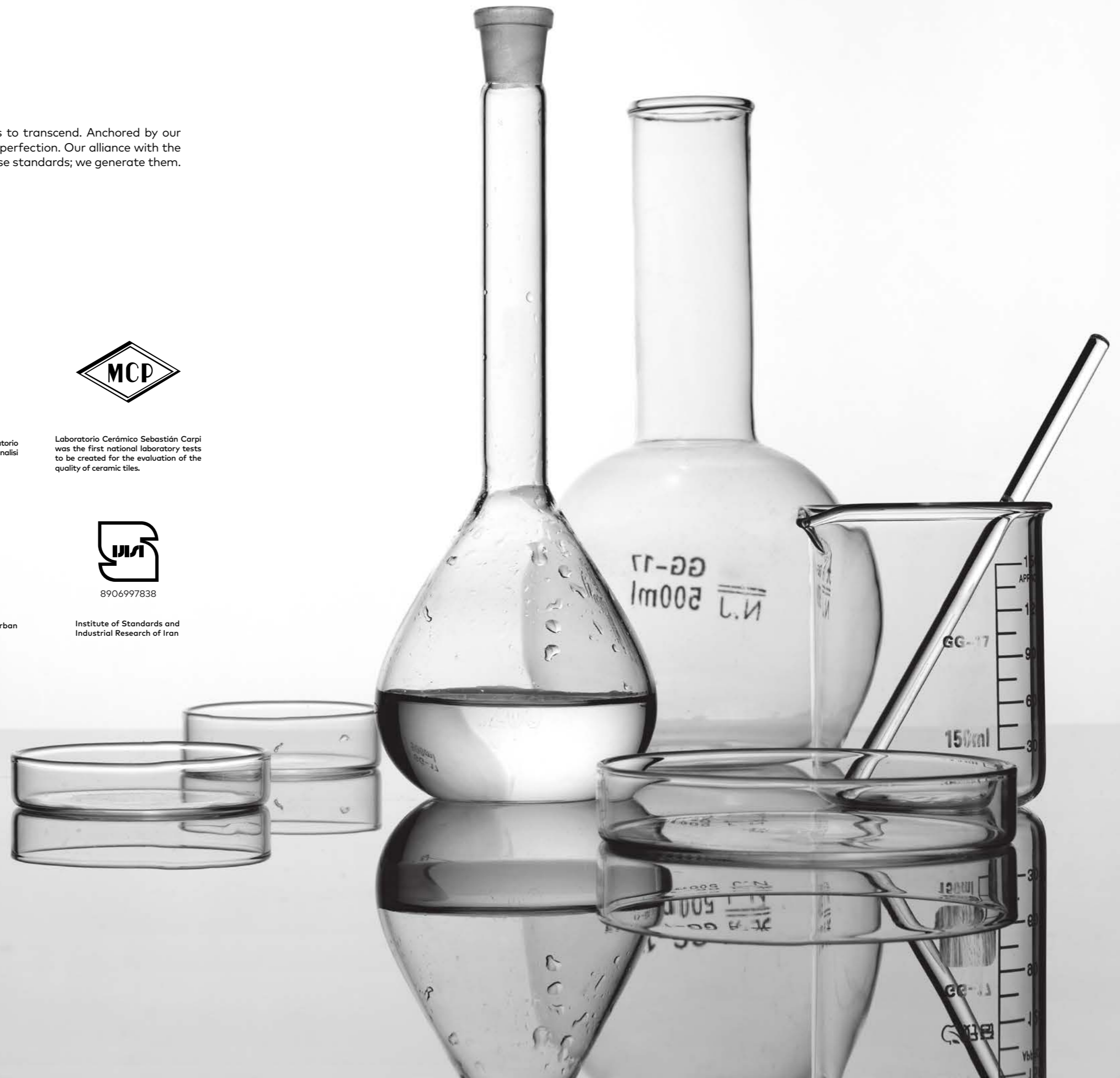


Ministry of Road & Urban
Development Road, Housing & Urban
Development Research Center



8906997838

Institute of Standards and
Industrial Research of Iran





A Resounding Legacy in Iran's Ceramic Expanse

In Iran's ceramic domain, IMPERIO emerges as a beacon of unmatched excellence. With an unparalleled track record in both national and private endeavors, we've adorned a staggering 10 million square meters across 2,500 architectural marvels. In facades alone, our signature graces another 4 million square meters across 1100 landmarks. Beyond numbers, our collaborative journey with 8400+ industry maestros underscores our commitment. For those in quest of ceramic perfection, IMPERIO is the destination.

A .	Years	Category	City
Abali Hotel	1394	Hotel	Tehran
Administrative Building Of Pishgaman Trade Center Yazd	1395	Commercial	Yazd
Agha Gol Residence	1400	Residential	Tehran
Almati Residence	1393	Residential	Almati
Ana Service And Exhibition Center	1396	Showroom	Kish
Ano	1401	Commercial	Mashhad
Anzali Free Zone Building	1394	Administrative	Anzali
Arad Tower Mashhad	1397	Commercial	Mashhad
Aren Shopping Center	1393	Commercial	Tehran
Arg Twin Towers	1396	Residential	Qom
Arian	1401	Administrative	Mashhad
Armitaj	1392	Administrative	Mashhad
Arsh Ajoudaniyeh Commercial Complex	1394	Commercial	Tehran
Arzesh Afarinane Saba	1398	Commercial	Tehran
Atana Hotel	1399	Administrative	Tehran
Azadi Clinic	1394	Hospital- Health Center	Tehran
B .	Years	Category	City
Bahonar Hospital Kerman	1395	Hospital- Health Center	Kerman
Bank Afarin Farmaniye Branch	1395	Bank	Tehran
Bank Kar Afarin Mashhad	1396	Bank	Mashhad
Bank Mellat Niavaran Branch	1393	Bank	Tehran
Baqiyatallah Dormitory	1400	Hotel	Tehran
Baqiyatullah Dormitory	1400	Hotel	Tehran
Baran 14	1400	Residential	Tehran
Blood Research And Fractionation Building	1395	Hospital- Health Center	Tehran
C .	Years	Category	City
Central Administrative Building Of Shiraz City Train	1396	Administrative	Shiraz
Central Bank Multi -Story Prking Lot	1400	Bank	Tehran
Central Branch Of Karafarin Bank	1399	Administrative	Tehran
Commercial Jordan	1399	Administrative	Tehran
Court Of Administrative Justice	1396	Administrative	Tehran
D .	Years	Category	City
Dadman Administrative	1397	Administrative	Tehran
Darlan Daro	1397	Administrative	Pardis
Darulshafa Hospital	1397	Hospital- Health Center	Basra
Dena Hospital	1391	Hospital- Health Center	Shiraz
Dornika	1400	Commercial	Mashhad
E .	Years	Category	City

Ecomal Commercial Center	1397	Commercial	Karaj
Ecomall	1397	Commercial	Karaj
Ecomall Hyperstar	1397	Hyper - Market	Karaj
Faculty Of Agriculture And Art Of Shahid University	1395	Educational	Tehran
Fannavaran Office Building	1396	Administrative	Tehran-Pardis
F .	Years	Category	City
Farkhonde Jordan	1401	Administrative	Mashhad
Farkhunde Jordan Office	1401	Administrative	Mashhad
Forensic Medicine Of Urmia	1399	Administrative	Tehran
G .	Years	Category	City
Golbaran Commercial & Recreational	1397	Commercial	Khuzestan
Gueno	1396	Administrative	Tehran
Gueno Administrative	1396	Administrative	Tehran
H .	Years	Category	City
Hajir Sanat Administrative	1396	Administrative	Tehran
Hisense	1400	Administrative	Tehran
I .	Years	Category	City
Imam Ali Najaf Hospital	1391	Hospital - Health Center	Najaf
Industry Mine Bank-Yazd	1395	Bank	Yazd
Iran Darouk	1397	Administrative	Tehran
Iran Elevator Trade Center	1400	Commercial	Tehran
Iranmall Official Building	1394	Administrative	Tehran
Islamic Azad University North Tehran Branch	1395	Educational	Tehran
Islamic Azad University Of Science And Research	1395	Educational	Tehran
Istak	1400	Administrative	Tehran
J .	Years	Category	City
Jamaran Office	1395	Administrative	Tehran
Jordan Commercial	1400	Commercial	Tehran
Jordan Skin And Hair Clinic	1397	Hospital- Health Center	Tehran
K .	Years	Category	City
Karestan Commercial Center	1397	Commercial	Tehran
Karina Mall Kish	1395	Commercial	Kish
Kerman Airport	1400	Airport	Kerman
Khalije Fars Commercial Center	1394	Commercial	Tehran
Kish Research Center	1397	Administrative	Kish
Koohsangi Residential & Commercial Complex	1392	Commercial	Mashhad
Kouroush Commercial & Recreation Center	1393	Commercial	Tehran
L .	Years	Category	City
Laleh	1400	Residential	Tehran

Lamkadeh Sofa Gallery	1393	Showroom	Tehran
Library Of Allameh Tabatabai University	1396	Educational	Tehran
M .	Years	Category	City
Madinah Al-Reza Hotel	1392	Hotel	Mashhad
Mapna	1396	Administrative	Kish
Mashhad City Council Hall	1394	Administrative	Mashhad
Mehre Of Iranian Kuhsangi	1397	Commercial	Mashhad
Mellat Bank Branches Administration Building	1396	Bank	Gorgan
Milad Hospital-Urmia	1397	Hospital- Health Center	Urmia
Ministry Of Agriculture Central Building	1397	Administrative	Tehran
Moallem Insurance	1395	Administrative	Tehran
Mofid University Qom	1395	Educational	Qom
Moheb Kosar Hospital	1393	Hospital- Health Center	Tehran
Mollasadra Administrative	1400	Administrative	Tehran
Mr. Pazuki Residence	1399	Administrative	Tehran
N .	Years	Category	City
Nazeran Hospital	1399	Administrative	Tehran
Negin-E Alborz	1400	Administrative	Ahvaz
Negine Pasargad Hotel	1394	Hotel	Mashhad
Nobahar Commercial Center	1393	Commercial	Kermanshah
Novin Pelas Hotel	1401	Hotel	Mashhad
O .	Years	Category	City
Official Building Of Mapna Company	1395	Administrative	Tehran
Official Building Pharmacy Of Iran Hormun	1394	Administrative	Tehran
P .	Years	Category	City
Pars Hospital-Rasht	1394	Hospital- Health Center	Rasht
Pars Residence	1395	Residential	Kerman
Parsian Shahr Kord Hospital	1397	Hospital- Health Center	Shahrekord
Penta Exhibition And Office Building	1398	Administrative	Parand
Q .	Years	Category	City
Qeshm Airport	1396	Airport	Qeshm
R .	Years	Category	City
Rayan Business Complex	1394	Administrative	Tehran
Razi Hospital	1398	Hospital- Health Center	Tehran
Razi Hospital	1397	Hospital- Health Center	Tehran
Refah Sanandaj Bank	1397	Bank	Sanandaj
Residence Raspina	1395	Residential	Saari
Rodhen Azad University	1396	Educational	Rodhen
Royal Commercial	1395	Commercial	Tehran

Royal-E Mirdamad	1397	Commercial	Tehran
Royaye Shargh	1397	Commercial	Tehran
S .	Years	Category	City
Saadi Hospital-Basra	1396	Hospital- Health Center	Basra
Salsabil Hotel	1394	Hotel	Mashhad
Sam Group	1400	Commercial	Tehran
Saman Bank Branch Of Sajjad Boulevard Mashhad	1386	Bank	Mashhad
Sana Center	1397	Commercial	Tehran
Sarafha Administrative	1401	Administrative	Mashhad
Seoul Hospital South Korea	1401	Hospital- Health Center	Mashhad
Setareh Vanak	1400	Administrative	Tehran
Shahr-E Aftab	1394	Service - Recreational	Tehran
Shaparak	1394	Service - Recreational	Tehran
Shiraz International Airport	1396	Airport	Shiraz
Shiraz Railway Station	1388	Metro - Train Station	Shiraz
Simin Farmanieh Administrative	1400	Administrative	Tehran
Sina Hospital	1401	Hospital- Health Center	Mashhad
Sina Noor Shahriyar	1395	Hospital- Health Center	Shahriyar
Spadana Administrative Office	1396	Administrative	Mashhad
Subhanian Office	1399	Administrative	Tehran
Sunstar	1400	Administrative	Tehran
T .	Years	Category	City
Taha Powish Drilling Company	1399	Administrative	Tehran
Tax Administrative	1400	Administrative	Tehran
Tax Office	1400	Administrative	Tehran
Toranj Tower	1395	Residential	Tehran
U .	Years	Category	City
Urmia International Airport	1396	Airport	Urmia
V .	Years	Category	City
Vanak Administrative	1399	Administrative	Tehran
Velayat Official Building	1395	Administrative	Tehran
Vina Administrative	1394	Administrative	Tehran
W .	Years	Category	City
Water And Sewage Area2	1395	Administrative	Tehran
Y .	Years	Category	City
Yas Kerman Doctors Building	1395	Hospital- Health Center	Kerman

TECHNICAL
INFORMATION

Technical Characteristics

CHARACTERISTICS	Annex G Group Bla		Test Method	IMPERIO Test Result
	Requirments for normal size n >15cm			
DIMENSIONS AND SURFACE QUALITY				
Length and width (cm)	±0.6%	max ±2mm	EN ISO 10545-2	Affirmative
Thickness	+5%	max ±0.5mm	EN ISO 10545-2	Affirmative
Rectangularity	±0.5%	max ±2mm	EN ISO 10545-2	Affirmative
Straightness of sides	±0.5%	max ±1.5mm	EN ISO 10545-2	Affirmative
Length and width (cm)	N >15cm ±0.6%	max ±2mm	EN ISO 10545-2	Affirmative
Thickness	±5%	max ±0.5mm	EN ISO 10545-2	Affirmative
Rectangularity	±0.5%	max ±2mm	EN ISO 10545-2	Affirmative
Straightness of sides	±0.5%	max ±1.5mm	EN ISO 10545-2	Affirmative
Surface flatness	±0.5%	max ±2mm	EN ISO 10545-2	Affirmative
SURFACE FLATNESS				
a) Center curvature ,related to diagonal calculated from the work sizes	+0.5%	max ±2mm	EN ISO 10545-2	Affirmative
b) Edge curvature, related to the corresponding work size	±0.5%	max ±2mm	EN ISO 10545-2	Affirmative
c) Warpage, related to diagonal calculated from the work size	±0.5%	max ±2mm	EN ISO 10545-2	Affirmative
PHYSICAL PROPERTIES				
Water absorption (in %by mass)	E <0.5%Individual	Maximum 0.6%	EN ISO 10545-3	Affirmative
BREAKING STRENGTH (N)for Thickness ≥7.5mm	Not Less Than 1300N		EN ISO 10545-4	Affirmative
Flexural tensile strength or Modulus of rupture (N /mm²)	Minimum 35N /mm² Individual Minimum 32N /mm²			Affirmative
Impact resistance ,as: Coefficient of restitution (COR)	Declared Value		EN ISO 10545-5	Affirmative
Resistance to deep abrasion of unglazed tiles : Removed value (mm³)	Maximum 175 mm³		EN ISO 10545-6	Affirmative
Resistance to surface abrasion of glazed tiles intended for use on floors	Abrasion class and cycles passed		EN ISO 10545-7	Affirmative
Coefficient of linear thermal expansion	Declared Value		EN ISO 10545-8	Affirmative
Resistance to thermal shock	Pass according to EN ISO 10545-1		EN ISO 10545-9	Affirmative

CHARACTERISTICS	Annex G Group Bla		Test Method	IMPERIO Test Result
	Requirments for normal size n >15cm			
PHYSICAL PROPERTIES				
Frost resistance	Pass according to EN ISO 10545-1		EN ISO 10545-12	Affirmative
Water absorption (in %by mass)	E ≤0.5% Individual maximum 0.6%		EN ISO 10545-3	Affirmative
Breaking strength for thickness 7.5mm and more	Not less than 1300N		EN ISO 10545-4	Affirmative
Flexural tensile strength or Modulus of rupture (N /mm²)	Minimum 35N /mm² Individual minimum 32N /mm²			Affirmative
Resistance to deep abrasion of unglazed tiles: Removed Volume	Maximum 175mm³		EN ISO 10545-6	Affirmative
Coefficient of linear thermal expansion	Declared value		EN ISO 10545-8	Affirmative
Resistance to thermal shock	Pass according to EN ISO 10545-1		EN ISO 10545-9	Aft mative
Frost Resistance	Pass according to EN ISO 10545-1		EN ISO 10545-12	Affirmative
CHEMICAL PROPERTIES				
Resistance to the low concentration of acids & alkanes	Declared Value		EN ISO 10545-13	Affirmative
Resistance to the high concentration of acids & alkanes	Declared Value			Affirmative
Resistance to household chemicals & swimming pool salts	Minimum Class B			Affirmative
Resistance to staining (unglazed tiles)	Declared Value		EN ISO 10545-14	Affirmative
Resistance to staining (Unglazed tiles)	Declared value		EN ISO 10545-14	Affirmative
Resistance to the low concentration of acids & alkalis	Declared value		EN ISO 10545-13	Affirmative
Resistance to the high concentration of acids & alkalis	Declared value			Affirmative
Resistance to household chemicals & swimming Pool Salts	Minimum class B			Affirmative

Technical Characteristics

WATER ABSORPTION

ISO 10545-3

The water absorption of IMPERIO slabs is minimized thanks to production and quality control standards of an extremely high level, which guarantees compactness and a reduced level of porosity. The value given in the tables of technical characteristics refers to the percentage of water absorbed with respect to the mass.

BENDING RESISTANCE

ISO 10545-4

The value expressed allows an analysis of the ability of the slabs to withstand static and dynamic stress in the test conditions.

ABRASION RESISTANCE

ISO 10545-6

The test is performed on unglazed (UGL) surfaces in order to determine the quantity of material that is removed following the action of an abrasive disc (150 revs). The IMPERIO slabs prove to be more resistant the less material is removed by the disc.

FROST RESISTANCE

ISO 10545-12

Outdoor applications are particularly prone to deterioration due to frost, because in the event that any water absorbed turns into ice, this can lead to the tile breaking. The IMPERIO slabs are not damaged by frost in any way thanks to their compactness and low porosity.

RESISTANCE TO CHEMICAL AGGRESSION

ISO 10545-13

The laboratory analysis is able to determine the resistance of glazed (GL) and unglazed (UGL) surfaces to chemical aggression by using acids and bases with a high concentration in line with the following classification: LA, HA, A: no visible effect.

SLIPPERINESS

DIN 51130-1

In this test, a person is asked to stand on a flat surface covered with tiles and sprinkled with oil. This surface is then tilted until the person, wearing specific footwear, starts to slip. The following classification is established by the angle of inclination of the tiled surface at the moment the person starts to slip:

up to <6° unclassified
6°< to 10° R9

STAIN RESISTANCE

ISO 10545-14

Three different elements (oil, iodine solution, and green chrome solution) are applied to and left on the tiles for 24 hours, after which they are then cleaned:

» Class E 5

The stain is removed with hot running water for 5 minutes.

» Class E 4

The stain is removed using a weak neutral detergent and a non-abrasive sponge.

» Class E 3

The stain is removed using a basic detergent containing an abrasive agent and a rotating brush with hard bristles.

» Class E 2

The stain is removed using a suitable solvent, left on the stain for 24 hours.

» Class E1

The stain cannot be removed.

CHARACTERISTICS OF THE IMPERIO SLABS

The IMPERIO slabs are produced only with natural, mineral raw materials. Research on the product has made it possible to obtain an effect that is extremely close to the natural material, with the advantage that the typical defects and blemishes in the original product found in nature can be removed using technology.

» Basic formats and special trims can be supplied in autonomous

shades. Any minor variations in size fall within the standard tolerance values;

» Any minor dots add to the natural feel of the material;

» Any second choice or discontinued products are sold on an "as seen" basis and may not be returned;

» The use of IMPERIO slabs with non-rectified edges is allowed only after the de-tensioning of the slab by removing any excess from the outer edges, as per the specifications in the technical manual.

DOCUMENTATION

The engineered surface reserves the right to make changes to the products illustrated in this catalog for production requirements or with the aim of improving the technical/aesthetic quality. The samples are purely indicative. The packaging and weight information is shown may vary for production requirements. To avoid any problems, we recommend contacting the sales department at the time of placing an order.

USE AND MAINTENANCE

SUGGESTIONS FOR CORRECT FITTING AND CLEANING

Although the slabs are mainly intended for furnishing, IMPERIO slabs may also be fitted in the traditional way as flooring and wall coverings to create spaces with a "total look". The following specifications refer to slabs fitted as flooring and wall coverings. With regard to the gluing of the slabs on furnishing elements, we recommend you consult the IMPERIO technical manual.

FITTING

When you receive the material ordered and in any case before fitting, it is important to check carefully the characteristics of the material (compliance with size, shade, and quality). No complaints will be accepted for any materials that have already been fitted if the defects were visible prior to fitting. To obtain the best aesthetic results, we recommend mixing the graphics accurately to avoid repeating patterns and to obtain the best possible results in terms of layout and color. The slabs can be fitted using specific high-performance adhesives for porcelain stoneware, adhesives in category C2 or above. We recommend applying the adhesive on both sides to prevent any breakages of the material once fitted. Please remember that at the time of fitting, the substrate must be stable, dry, and properly prepared, not frosted, and not too hot and that it is necessary in any case to follow the instructions provided by the manufacturers of the materials for the specific substrates and adhesives used. Cement-based adhesives must be applied at room temperature, in general between 5°C and 30/35°C. It is hereby understood that we recommend observing the technical times indicated by the manufacturers of the adhesives used. The most suitable adhesives for fitting the IMPERIO slabs are listed in the European Standard currently in force: EN12004. When fitting the material, avoid using pencils (graphite) or permanent markers to make marks on the surface, particularly on polished products. The IMPERIO slabs can be shaped and cut using purpose-built diamond discs and equipment for porcelain stoneware.

JOINTS AND GROUTING

We strongly advise against fitting the slabs without joints. We also recommend a minimum joint of 3 mm (this type of fitting allows the grout to have a better grip on the sides of the slabs, greater absorption of any movements of the substrate, and consequently of the slabs themselves). In large, open spaces it is absolutely essential to position the expansion joints at regular intervals; in smaller rooms, on the other hand, it is sufficient to leave a slight space between the tiled surface and the walls around the room, adding a final touch with a skirting board or with the wall covering. Please refer in any case to the advice/suggestions of the planner, the works director, or the tile fitter to avoid problems of any sort. For the best possible results, we suggest using tone-on-tone grouting. It is important to remove any excess grouting immediately and accurately after application while still fresh, using a sponge and plenty of water. A few days after fitting, once the joints are completely dry, it is essential to thoroughly clean the tiled surface using buffered acids (see the after fitting instructions) in order to completely remove all cement-based residues.

CLEANING "AFTER FITTING"

Properly cleaning the files after they have been fitted is crucial. If residues of grouting are not properly removed, this may leave marks that are difficult to remove later, due to a film of cement that can absorb any kind of dirt. It is essential to loosen and eliminate these residues completely using buffered acids diluted in water (read the instructions for use on the packages of the products used), soon after fitting, and to thoroughly rinse any residues from the fitted surface in order to prevent any damage to the material. It is preferable to try cleaning a small part of the surface first; if the results are good, the entire surface can then be cleaned. After this, the floor must then be cleaned using a basic or alkaline detergent. These must be degreasing because the surface treatment might help to trap dirt. For Polished slabs with a marble effect, IMPERIO recommends taking special care when cleaning the surface using buffered acids, as the surface may be damaged if the acid is not removed quickly. For polished surfaces, the use of non-abrasive cleaning equipment is necessary to prevent the surface from losing its shine or becoming scratched.

ROUTINE CLEANING

For routine cleaning of the IMPERIO slabs, we strongly advise against the use of waxes, greasy soaps, fillers and various treatments (water repellent) treatments. In order to prevent any shiny patinas from forming on the slabs, IMPERIO would like to point out that hydrofluoric acid (HF) and its derivatives cause irrevocable damage to its products. For routine cleaning operations, IMPERIO recommends the use of bleach and ammonia, appropriately diluted in water; for the Polished finish, it suggests drying the floor after cleaning to avoid any marks.

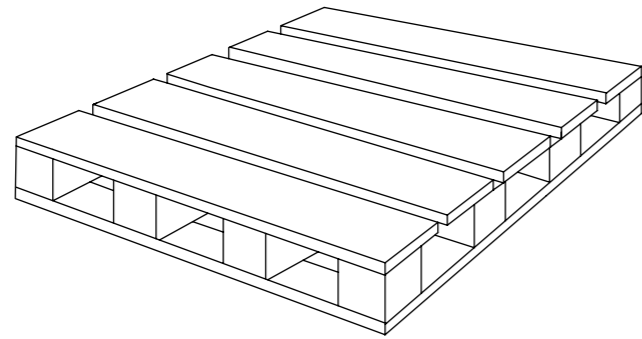
EXTRAORDINARY CLEANING

In the case of particularly stubborn stains, we recommend the use of specific detergents, which are indicated in greater detail in the table entitled "cleaning products". Furthermore, it should not be forgotten that it is easier to remove any stain when still fresh. It is always important to test the detergents on a small area before applying them to the entire surface, particularly on Polished surfaces.

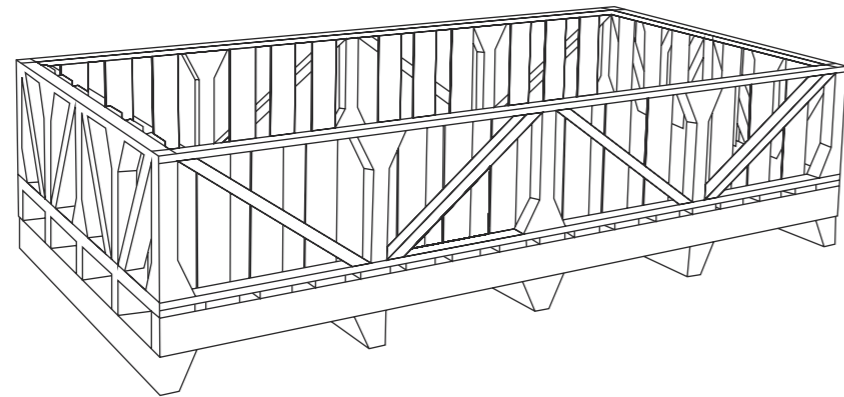
RAISED FLOORINGS

In the case of raised floorings, it is not possible to use a large quantity of water; we, therefore, recommend using a floor cloth that has been properly wrung. Routine cleaning must be carried out using purpose made floor cloths, lukewarm water, and detergent, reducing the amount of water used. Stains can still be removed using concentrated products directly on the stains.

Packing



Size	Thickness	Weight Pallet	Sqm Box	Pieces Box	Kg/Box	Box/Pallet	Sqm Pallet
60x120 Polished	11.5	2292	1.44	2	38.2	60	86.4
60x120 Matte	11.5	2250	1.44	2	37.5	60	86.4
60x120	9	2160	1.44	2	30	72	103.68
20x120	11.5	2021	0.96	4	26	84	80.64
60*60	20	1241.6	0.72	2	31.04	40	28.8



Size	Thickness	Weight Pallet	Sqm Box	Pieces Box	Kg/Box	Box/Pallet	Sqm Pallet
100x100	10	2208	2	2	46	48	96
80x160	9.5	1370	1.28	-	27.4	50	64
120x120	9.5	1530	1.44	-	32.5	45	64.8
120x240	9.5	2354	2.88	-	62	36	103.68
120x280	9.5	2730	3.36	-	72	36	120.96
160x320	9.5	2600	5.12	-	110	22	112.64

Technical Details

Table -2 Characteristic of Ceramic Tiles Required for Different Applications

CHARACTERISTICS ^{a)}		FLOORINGS		WALLS		TEST METHOD
A)	DIMENSIONS AND SURFACE QUALITY	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	REFERENCE
A.1	Length and Width (cm)	X	X	X	X	EN ISO 10545-2
A.2	Thickness	X	X	X	X	EN ISO 10545-2
A.3	Straightness of Sides (i.e. Facial Sides) ^{b)}	X	X	X	X	EN ISO 10545-2
A.4	Rectangularity ^{b)}	X	X	X	X	EN ISO 10545-2
A.5	Surface Flatness	X	X	X	X	EN ISO 10545-2
A.6	Surface Quality	X	X	X	X	EN ISO 10545-2
B)	PHYSICAL PROPERTIES	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	REFERENCE
B.1	Water Absorption	X	X	X	X	EN ISO 10545-3
B.2	Breaking Strength ^{c)}	X	X	X	X	EN ISO 10545-4
B.3	Flexural Tensile Strength ^{d)} or Modules of Rupture ^{d)}	X	X	X	X	EN ISO 10545-4
B.4 a	Resistance to Deep Abrasion -Unglazed Tiles ^{d)}	X	X			EN ISO 10545-6
B.4 b	Resistance to Surface Abrasion -Glazed Tiles ^{d)}	X	X			EN ISO 10545-7
B.5	Linear Thermal Expansion ^{e)}	X	X	X	X	EN ISO 10545-8
B.6	Resistance to Thermal Shock ^{f)}	X	X	X	X	EN ISO 10545-9
B.7	Resistance to Cracking ^{g)}	X	X	X	X	EN ISO 10545-11
B.8	Freeze -Thaw Resistance ^{h)}		X		X	EN ISO 1015-12
B.9	Slipperiness	X	X			FprCEN /TS 16165:2011 ⁱ⁾

CHARACTERISTICS ^{a)}		FLOORINGS		WALLS		TEST METHOD
B.10 a	Bond Strength / Adhesion ^{k)} - Cementitious Adhesives			X	X	EN 12004:2007,4.1
B.10 b	Bond Strength / Adhesion ^{k)} - Dispersion Adhesives			X	X	EN 12004:2007,4.2
B.10 c	Bond Strength / Adhesion ^{k)} - Reaction Resin Adhesives			X	X	EN 12004:2007,4.3
B.10 d	Bond Strength / Adhesion ^{k)} - Mortar			X	X	EN ISO 10545-12
B.11	Moisture Expansion ^{h)}	X	X	X	X	EN ISO 10545-10
B.12	Small Color Differences ^{m)}	X	X	X	X	EN ISO 10545-16
B.13	Impact Resistance ⁿ⁾	X	X			EN ISO 10545-5
B.14	Reaction to Fire ^{o)}	X		X	X	WT
B.15	Tactility ^{p)}	X	X			CEN TS 15209)
C)	CHEMICAL PROPERTIES	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	REFERENCE
C.1 a	Resistance to Staining -Glazed Tiles ^{q)}	X	X	X	X	EN ISO 10545-14
C.1 b	Resistance to Staining -Unglazed Tiles ^{q)}	X	X	X	X	EN ISO 10545-14
C.2 a	Resistance to Acids and Alkalis of Low Concentration ^{r)}	X	X	X	X	EN ISO 10545-13
C.2 b	Resistance to Acids and Alkalis of High Concentration ^{r)}	X	X	X	X	EN ISO 10545-13
C.2 c	Resistance to Household Cleaning Agents and Swimming Pool Chemicals ^{r)}	X	X	X	X	EN ISO 10545-13
C.3 a	Release of Cadmium -Glazed Tilest ^{s)}	X	X	X	X	EN ISO 10545-15
C.3 b	Release of Lead -Glazed Tilest ^{s)}	X	X	X	X	EN ISO 10545-15
C.3 c	Release of Other Dangerous Substances ^{s)}	X	X	X	X	As Relevant

Ceramic tiles shall be classified into groups according to two parameters: by their method of manufacture (also referred to "shaping") that is, extrusion (method A) or dry-pressing (method B), and by their water absorption level (see 3.9 and Table 1). The groups do not presuppose the usage of the products. The requirements for each product group shall be as given in Annexes A to L.

Table 1 - Classification of ceramic tiles with respect to water absorption and shaping

Shaping	Water Absorption (E_b)			
	Group I $E_b \leq 3\%$	Group II _a $3\% < E_b \leq 6\%$	Group II _b $6\% < E_b \leq 10\%$	Group III $E_b > 10\%$
Method A Extruded	Group AI _a $E_b \leq 0.5\%$ (see Annex L)	Group AII _{a-1} ^{a)} (see Annex B)	Group AII _{b-1} ^{a)} (see Annex D)	Group AIII (see Annex F)
	Group AI _b $0.5\% < E_b \leq 3\%$ (see Annex A)	Group AII _{a-2} ^{a)} (see Annex C)	Group AII _{b-2} ^{a)} (see Annex E)	Group BIII _b (see Annex K)
Method B Dry-pressed	Group BI _a $E_b \leq 0.5\%$ (see Annex G)	Group BII _a (see Annex I)	Group BII _b (see Annex J)	
	Group BI _b $0.5\% < E_b \leq 3\%$ (see Annex H)			

a) Groups AII and AII_b are divided into two parts (parts 1 and 2) with different product specifications. Part 1 covers most of the tiles in the group; part 2 covers certain specific products, which are manufactured under different names (e.g. terre cuite in France and Belgium, cotton in Italy, and baldosin Catalan in Spain).

b) Group BIII covers glazed ceramic tiles only. There is no quantity of dry-pressed unglazed tiles produced with water absorption greater than 10% that is not covered by this product group.

Requirements for Dry-pressed Ceramic Tiles With Low Water Absorption of GROUP BI_a (E_b ≤0.5%)

Requirements for Dimension and Surface Quality and for Physical and Chemical Properties of this Group of Ceramic Tiles Shall be in Accordance With Table G.1

Table G.1 - Requirements for Dry-pressed Ceramic Tiles with Low Water Absorption, GROUP BI_a (E_b ≤0.5%)

CHARACTERISTICS	Requirements for Nominal Size N			Test Method
	7 cm < N < 15 cm	N ≥ 15 cm		
	(mm)	%	(mm)	
A) DIMENSIONS AND SURFACE QUALITY				
A.1 LENGTH AND WIDTH				
The Work Size Shall be Chosen as Follows for :				
a) Modular Tiles :	In order to allow a nominal joint width of between 2 and 5mm			-
b) Non -modular Tiles :	So that the difference between the work size and normal size is not more than 2% (max 0.5mm)			-
The Permissible Deviation of the Average Size for the Each Tile (2 or 4Sides) From the Work Size (W)	+0.9 mm	±0.6%	±2.0 mm	EN ISO 10545-2
A.2 THICKNESS				
a) The Thickness Shall be specified	Declared thickness			-
b) The Permissible Deviation ,of the Average Thickness of Each Tile from the Work Size Thickness	+0.5 mm	±5%	+0.5 mm	EN ISO 10545-2
A.3 STRAIGHTNESS OF SIDES (Facial Sides)				
The Maximum Permissible Deviation from Straightness, Related to the Corresponding Wok Size	+0.75 mm	±0.5%	+1.5 mm	EN ISO 10545-2
A.4 RECTANGULARITY_b				
The Maximum Permissible Deviation from Rectangularity, Related to the Corresponding Work Size	+0.75 mm	±0.5%	+2 mm	EN ISO 10545-2
A.5 SURFACE FLATNESS				

- a Requirements for these characteristics are given in Annex A to L.
- b Not applicable for ceramic tiles having curved shapes.
- c For floorings only.
- d For walls only.
- e See N.2.2.
- f For ceramic tiles which intended use is subject to localized thermal shock
- g For glazed ceramic tiles only.
- h For ceramic tiles that are intended to be used where frost may apply.
- i For floorings on pedestrian circulation areas (where required are regulation).
- j Unless a different test method is required by national regulations in the market of the relevant Member State(s) for the intended use, in which case the test method and results shall be declared as given therein.
- k For walls when performing the test with actual ceramic tiles and suitable adhesive(s) or mortar only.
- l See N.2.3.
- m See N.2.6.
- n See N.2.1.
- o For ceramic tiles intended to be used for internal floorings and for internal and external walls only.
- p For tactile paving surface only i.e. when required for blind or vision impaired persons.
- q See N.2.5.
- r See N.2.4.
- s When relevant, see Notes 1 and 2 in ZA.1 for the release of other dangerous substances, if any.
- t For glazed ceramic tiles only, when intended to be used on worktops and on wall surfaces where food preparation takes place and food may be in direct contact with the glazed tile surface. As indicative limits, reference could be made to Direct 2005/31/CE.

NOTE 1 Characteristics given in this table in "plain" text are relevant to all intended uses, while those in "italics" are additionally relevant for the specific intended use(s) only.

NOTE 2 Characteristics, given in this table in "bold" text, are the mandated essential characteristics or the corresponding proxy characteristics (for CE marketing, see Annex ZA) and those in "normal" text, the voluntary characteristics (not for CE marketing).

CHARACTERISTICS	Requirements for Nominal Size N			Test Method
	7 cm < N < 15 cm	N ≥ 15 cm		
	(mm)	%	(mm)	
b) Edge Curvature, Related to the Corresponding Work Size	+0.75 mm	±0.5%	+2 mm	EN ISO 10545-2
B) PHYSICAL PROPERTIES				
B.1 WATER ABSORPTION (IN % BY MASS)	E _w ≤ 0.5 Individual maximum 0.6%			EN ISO 10545-3
B.2 BREAKING STRENGTH, FOR :				
a) Thickness ≥ 7.5mm	Not less than 1300N			EN ISO 10545-4
b) Thickness < 7.5mm	Not less than 700N			EN ISO 10545-4
B.3 FLEXURAL TENSILE STRENGTH OR MODULUS OF RUPTURE ^d	Minimum 35N /mm ² Individual minimum 32N / mm ²			EN ISO 10545-4
B)PHYSICAL PROPERTIES				
B.4 ABRASION RESISTANCE				
a) Resistance to Deep Abrasion of Unglazed Tiles : Removed Volume	Maximum 175 mm ³			EN ISO 10545-6
b) Resistance to Surface Abrasion of Glazed Tiles Intended for Use on Floors ^e	Abrasion class and cycles passed			EN ISO 10545-7
B.5 COEFFICIENT OF LINEAR THERMAL EXPANSION				
- From Ambient Temperature to 100 °C	Declared value ^f			EN ISO 10545-8
B.6 THERMAL SHOCK RESISTANCE	Pass according to EN ISO 10545-1 ^g			EN ISO 10545-9
B.7 CRAZING RESISTANCE: Glazed Tiles ^h	Pass according to EN ISO 10545-1 ^g			EN ISO 10545-11 ^h
B.8 FROST RESISTANCE	Pass according to EN ISO 10545-1 ^g			EN ISO 10545-12
B.9 SLIPPERINESS	Declared value (s) ^g			PrCEN /TS 16165:2011 ⁱ
B.10 BOND STRENGTH / ADHESION ^j , FOR :				
a) Cementitious Adhesives ^k	Declared value (s)			EN 12004:2007,4.1 ^l

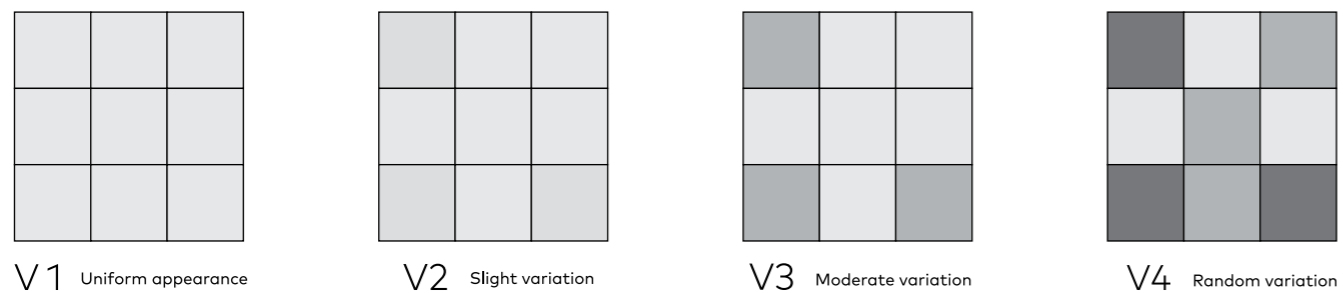
CHARACTERISTICS	Requirements for Nominal Size N			Test Method
	7 cm < N < 15 cm	N ≥ 15 cm		
	(mm)	%	(mm)	
b) Dispersion Adhesives ^k	Declared value (s)			EN 12004:2007,4.2 ^l
a) Glazed Tiles	ΔE < 0.75			EN ISO 10545-16
b) Unglazed Tiles	ΔE < 1.0			EN ISO 10545-16
B.13 IMPACT RESISTANCE, as:				
- Coefficient of Restitution (COR)	Declared value ^f			EN ISO 10545-5
B.14 REACTION TO FIRE	(Class A1 or A1 _{FL}) ^m			-
B.15 TACTILITY ⁿ	Declared surface description ^g			CEN /TS 15209 ^o
C) CHEMICAL PROPERTIES				
C.1 RESISTANCE TO STAINING, FOR :				
a) Glazed Tiles	Minimum class 3			EN ISO 10545-14
b) Unglazed Tiles	Declared value ^f			EN ISO 10545-14
C.2 RESISTANCE TO CHEMICAL				
a) Resistance to Low Concentration of Acids and Alkalis	Declared value ^f			EN ISO 10545-13
b) Resistance to High Concentration of Acids and Alkalis	Declared value ^f			EN ISO 10545-13
c) Resistance to Household Chemicals and Swimming Pool Salts	Minimum class B			EN ISO 10545-13
C.3 RELEASE OF DANGEROUS SUBSTANCES				
a) Cadmium (in mg /dm ²)	Declared value ^g			EN ISO 10545-15
b) Lead (in mg /dm ²)	Declared value ^g			EN ISO 10545-15
c) Other Dangerous Substances ^o	Declared value			As Relevant

- a Similar joint widths may be used to apply to the traditional systems based on non-metric sizes.
- b Not applicable for tiles having curved shapes.
- c Because of firing, a slight variation from the standard color is unavoidable. This does not apply to intentional irregularities of color variation of the face of tiles(which can be unglazed, glazed, or partly glazed) or to the color variation over a tile area which is characteristic of the given tile and desirable. Spots or colored dots which are introduced for decorative purposes are not considered a defect.
- d Not applicable to ceramic tiles with breaking strength > 3000 N
- e Where required, the abrasion class resistance according to Annex M may be declared.
- f See Annex N additional information on applicability.
- g See table 2 for uses where it is applicable.
- h Certain decorative effects may have a tendency to craze. They are to be identified by the manufacturer, in which case the crazing test given in EN ISO 11-10545 is not applicable.
- i Unless a different test method is required by national regulations in the market of the relevant member state(s) for the intended use, in which case the test method and result shall be declared as given therein (as long as consolidated European test method is not available).
- j For intended uses subject to requirements against accidental fall of the object on to transit areas only. Tests are to be performed using the actual tiles and suitable adhesive and/or mortar.
- k For the types of adhesives, defined in EN 12004:2007 only.
- l The proposed test methods are intended to determine the adhesion strength of the adhesive and have not been developed to determine ceramic the characteristics. Thus, there might be no correlation between the declared bond strength and the performance of the tile in use (other factors proper installation techniques and type of background support will influence the final performance).
- m Ceramics, as a homogeneously distributed material used for ceramic tiles, is considered as a material of known and stable performance with respect to the reaction to fire performance as it does not consist of any organic material. As such it does not contribute to the fire and it may be considered without the need for testing (CWT) as the class AT material7. The reaction to the fire performance of ceramic tiles may also be classified also as class AT according to EN ISO 1-13501.
- n For tactile paving surface i.e. when required for blind or vision impaired persons.
- o When relevant, see notes 1 and 2 in ZA.1 for the performance of the product concerning these characteristics, if any to be declared.

Symbology



SHADE VARIATION



Cleaning Products

TYPES OF DETERGENT <small>Where the sale is permitted</small>	SOLVENTS <small>(bleach, turpentine, acetone, trichloroethylene, nitro thinner)</small>			ACIDS <small>(muriatic acid, hydrochloric acid, phosphoric acid)</small>			ALKALINE -BASED DETERGENTS <small>(professional alkaline detergents)</small>		
	Matte	Satin	Polished	Matte	Satin	Polished	Matte	Satin	Polished
TYPE OF STAINS									
Coffee			■						
Lime scail				■	■	■			
Tar	■	■							
Concrete				■	■	■			
Candle wax	■	■	■						
Coca Cola			■						
Glue	■	■	■						
Chewing gum	■	■	■				■	■	
Rubber marks from tyres or shoes	■	■	■						
Grease ,Oil							■	■	■
Ink	■	■	■						
Nicotine	■	■	■						
Felt -tip pen	■	■	■						
Tomato			■						
Resins	■	■	■						
Rust				■	■	■			
Nail varnish	■	■	■						
Cigarette burns				■	■	■			
Tea		■	■						
Wall point	■	■	■	■	■	■			

For information and advice, please contact IMPERIO directly.



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