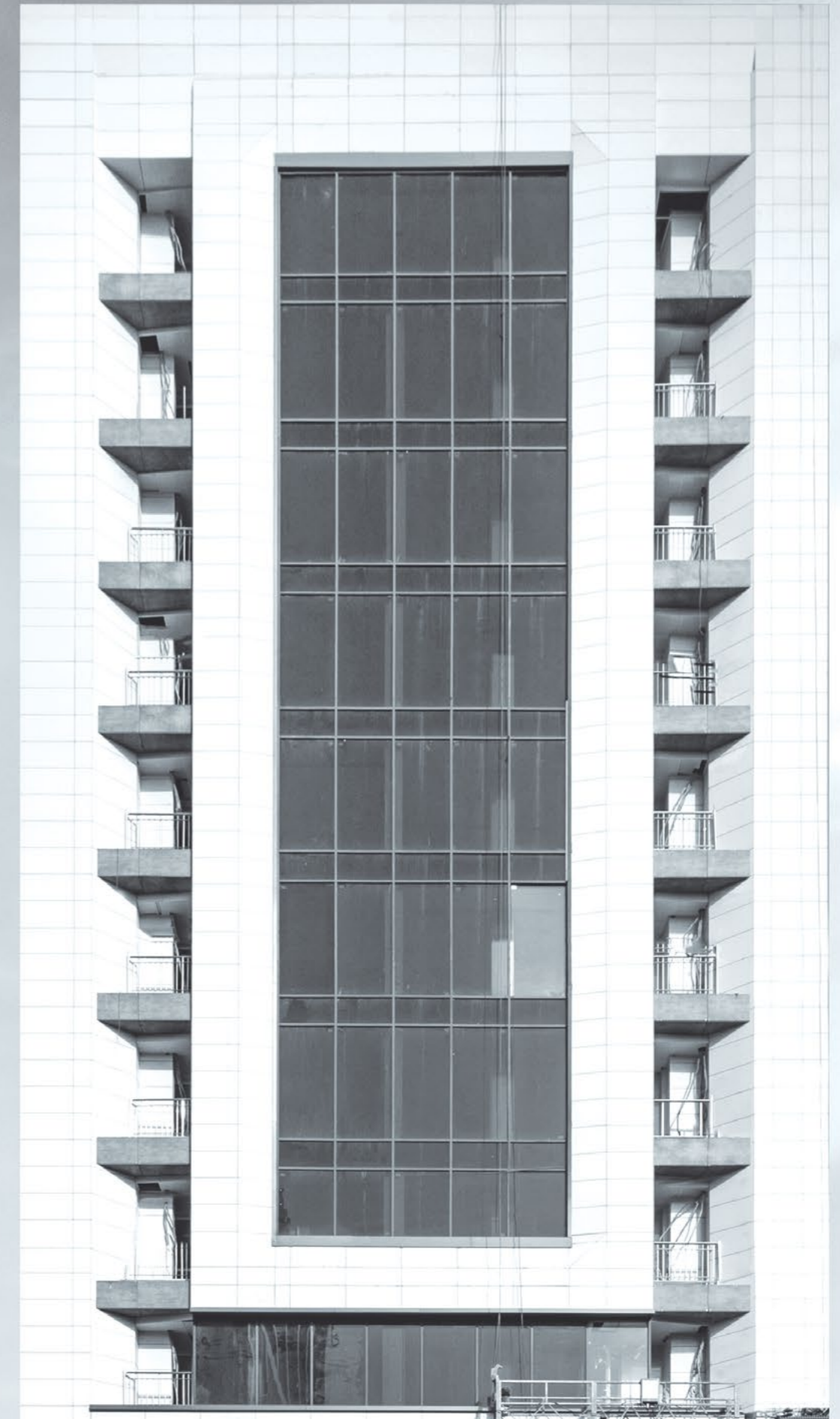




**FAÇADE  
CATÁLOG  
2023**

PISHGAMAN MEMARI ARYA has been established in 2008, started its activities by producing porcelain ceramics in OEM (Original Equipment Manufacturer) under its own brand of PMA. Believing in the value of investing in HR, all sales forces of the company, are selected among graduated CIVIL ENGINEERS with side operational experiences and have been trained in several different fields. PMA has Enriched its customers need cognition by large and wide connection with the country's be and reliable consultant companies and Architectural offices. After the recognition of customer needs, most trended designs are selected from well-known Italian design ateliers finalized by high-quality raw materials, machinery, and technology. All products are real porcelain, producing as full-body porcelain. Different range of porcelain ceramics producing in sizes 20x120, 60x120, 80x160, 120x240, 120x280 cm carefully monitored by PMA's QC team. These products are appropriated for different application areas. All products in PMA obtained ISIRI CERAMICS together with Europe CE. In addition, PMA is sampling randomly among its production and sending them to different qualified LAB such as Road, Housing & Urban Development Research Center, SAM institute Turkey, all reports are recorded. Product Selection Consulting Services are provided by our Sales Forces, considering Customer's need, situation, Project Fields of Application & Products technical characteristics. To enhance the quality of our services after delivering the goods, all sales forces with the support of the technical support department provide different services such as technical visits during project execution, case assistance according to customers need. All projects subject to heavy traffic with specific usage are supported by our technical assistance in order to improve their maintenance while periodic visits. PMA has set its mission, based on Training & Learning. In this regard, has organized related seminars and workshops.

**WE WILL ALWAYS BE THERE, FOR YOU**



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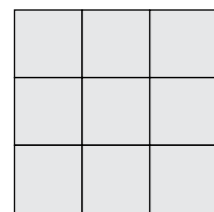
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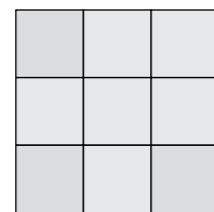
# Symbology

# Standards

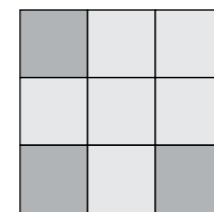
## SHADE VARIATION



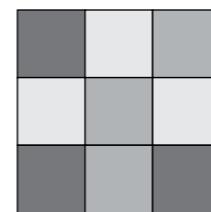
V1 Uniform appearance



V2 Slight variation



V3 Moderate variation



V4 Random variation



Frost resistance



Stain resistance



Deep abrasion resistance



Chemical resistance



Thermal shock



Breaking strength



Low water absorption



ISO 9001

ISO 9001 is the international standard for quality management system



8906997838

Institute of Standards and Industrial Research of Iran



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.



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



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.

# Why Read the Catalog

Quick and easy, this text is an introductory method for PMA façade products this Catalog has been dabbed with the aim at making it easier to work with the ceramic tile as a façade material and ponder over its advantages, and the question how to install PMA porcelain ceramic tile to rug a façade and outdoor-and-under-circumstances surfaces as for an independent substantial frame, making the edifice elements easy-to-work with and glance-catching as well. Continue reading to know more.



# Pishgaman Memari Arya

Pishgaman Memari Arya, PMA, is a multi-core company that has developed a wide spectrum of products and services in the field of ceramic industry, operated by more than a hundred experts. The production of ceramics and porcelain slabs, as well as adhesives and building chemicals, and as a new-brand product the ceramic furniture are the axis of PMA activities in order to build state-of-the-art properties at the present day.

PMA in this respect, supply porcelain ceramic tile façade for high-tech and ventilated surface systems; these products have many uses for the building surface industry—discussed further. As a matter of fact, PMA plays the role of consultant and designer for customers, developers, mass construction agents and contractors. These diverse products, considering the imitation of natural materials, and glazed colors as desired allow builders and architects to provide an exhaustive beauty of building facades with items that have high durability and endurance, providing a natural ventilation for the large areas inside in a high-end way. The employees are all selected from among the elites and graduates of the best universities in Iran and the world, and they are highly-adept at many production and sales procedures and resolving the technical issues all. All the products of PMA are produced in the OEM way and are controlled by the company's dedicated QC team in the quality assurance package during the production and adjustment stages. Moreover, PMA Company with thirteen separate working field, and a unique crew of designers and engineers and digital trade brains, always seeks to provide premium products and services to its customers for unique façade building. The expert team of this organization is among the holders of post-graduate degrees from among the best university graduates from master's and doctorate degrees, and they are busy doing assigned work in all seasons, offering highly-advisable consultations. This organization with its twenty-nine dedicated showrooms and active representatives across the counties of Iran, Iraq, the United Arab Emirates, Pakistan, Azerbaijan and South Korea are ready to provide premium products and services at the international level.

— We are rooting for you!

# The First in Facade Construction

Our Organization has an honor-and-fortune opportunity to introduce itself as the first provider and supplier of porcelain ceramic façade tile to compose absolutely variable building elevations from a desert climate in Dubai to rainy cities in Asia the South East—being first is not always an accident.

PMA is the comprehensive reference of all projects in various applications and supplier of more than seven million square meters of porcelain ceramic sophisticated façade. The protective and beautiful layer of façade through our tiles will be an advantage for towers and commercial complexes.

This success has been achieved at the mercy of cooperation with 30 specialized design groups, a two-way and complicated technology of consultation, as well as dry execution operators, and 25 mortar installation execution teams have the largest resume of private and national landmark projects in Iran's ceramic industry.

*— We are optimizing the tile installation process day-by-day for the better...!*





Impenetrable, porcelain ceramics are one of the best options to compose a sophisticated facades for skyscrapers and big edifices. This sort of building material, due to its qualities mechanical resistance, hardness and translucency etc. will be able to provide a durable and eye-catching surface coverings for the exterior and the industrial building surfaces.

Having been compatible with different climates as well, this material is good at design a ventilated façade system. To put it shorter way, having a high compression compared to other sorts, ceramic tiles whose absorption percentage is less or even equal to 0.5% by mass called porcelain tiles.

Another reason for the popularity of this type of ceramic is its alignment with the manifestation of nature. Today, it is no secret that urban style is a form of green architecture. Such a Façade can also give you the most luxurious stance of the 21st century, along with cement vases of bamboos; so, welcome to the new millennium!

*Be contemporary...!*

# Porcelain Ceramic



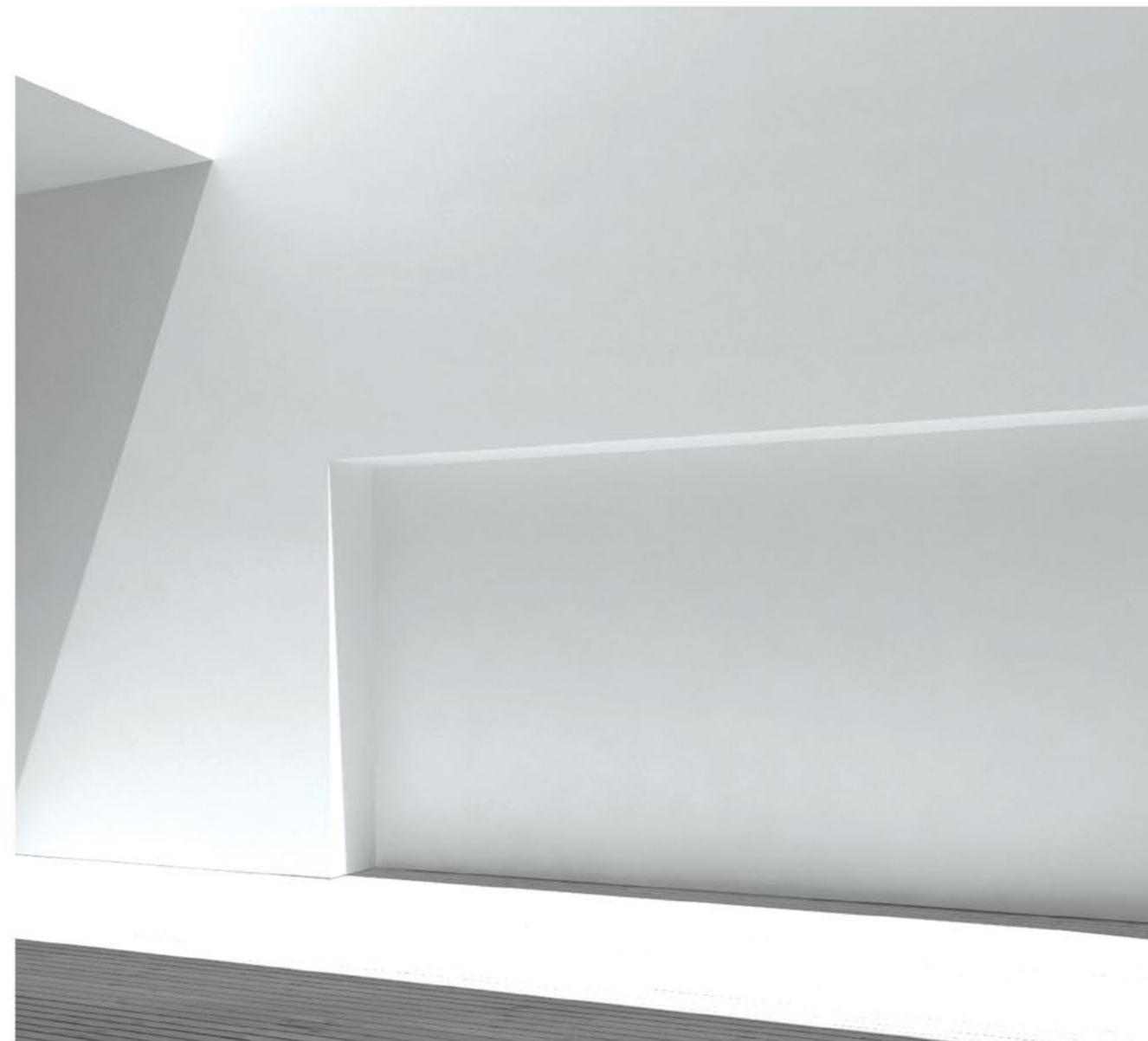
# Advantages of Porcelain Tile and Slabs

Porcelain ceramic is a long-term solution that affects almost all other elements of the space, and has a wide spectrum of colors and designs, sizes and patterns. Plus, Porcelain slabs have many advantages, that include:

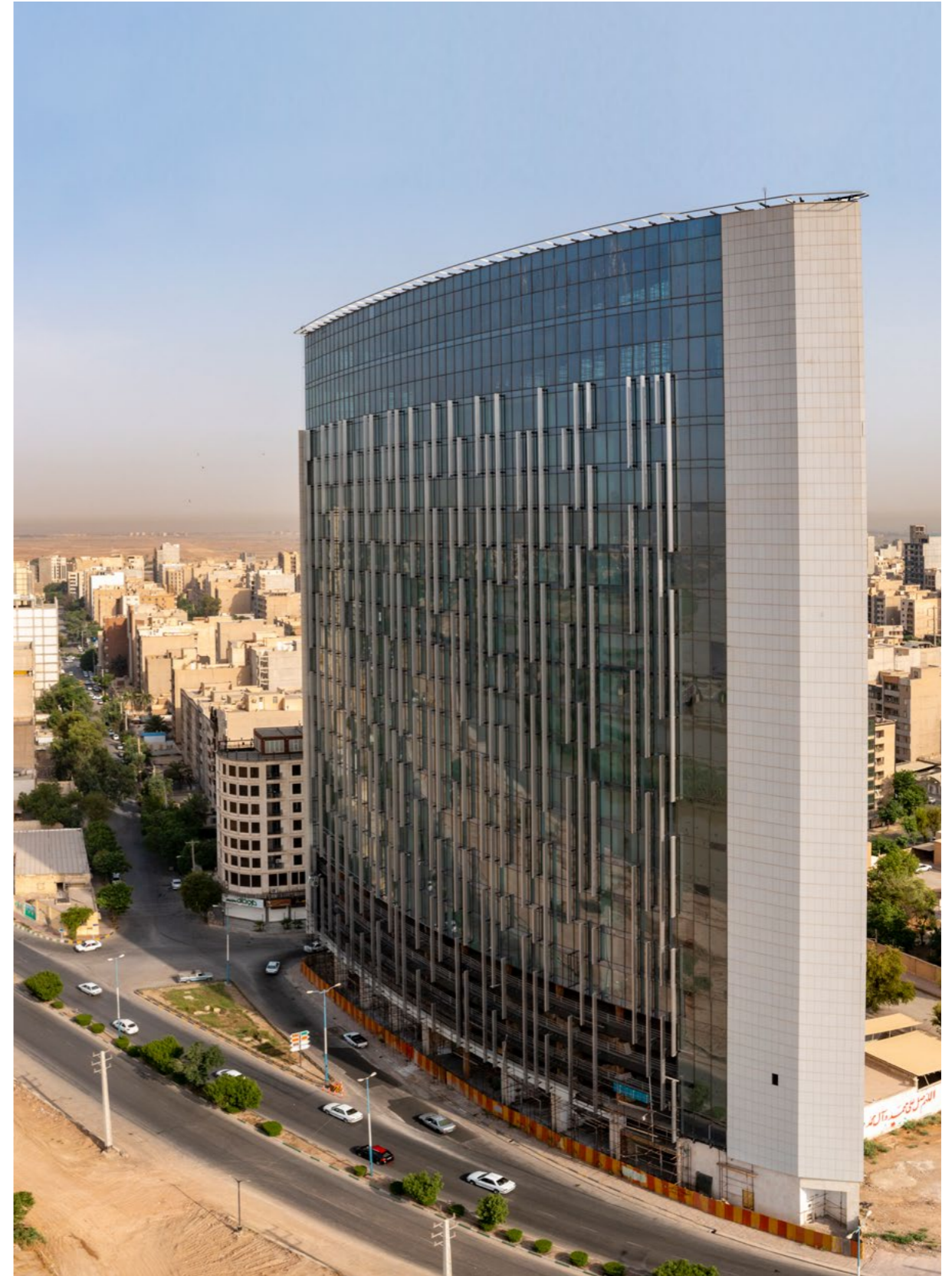
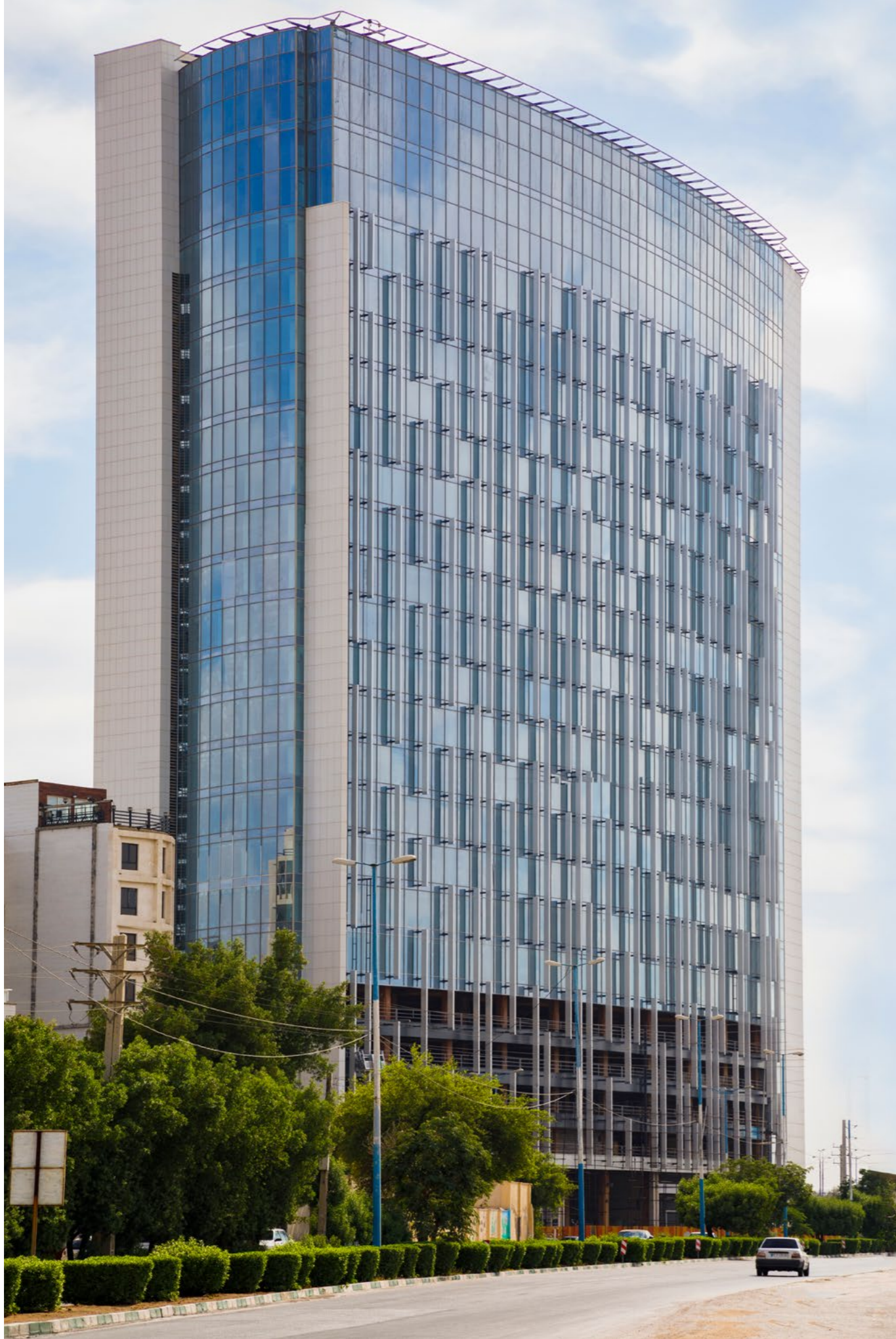
- High material resistance;
- Beautiful designs;
- Easy-to-install and clean in sky scrapers;
- Resistant to atmospheric factors and the sun UV rays;
- Weather-resistant;
- Natural ventilation;
- Insulation, control of energy costs and climate;
- Interchangeable and can be completely dismantled;
- Optimizing building energy consumption;
- Frost resistance and climate shocks;
- Durability and resilience in bad weather.

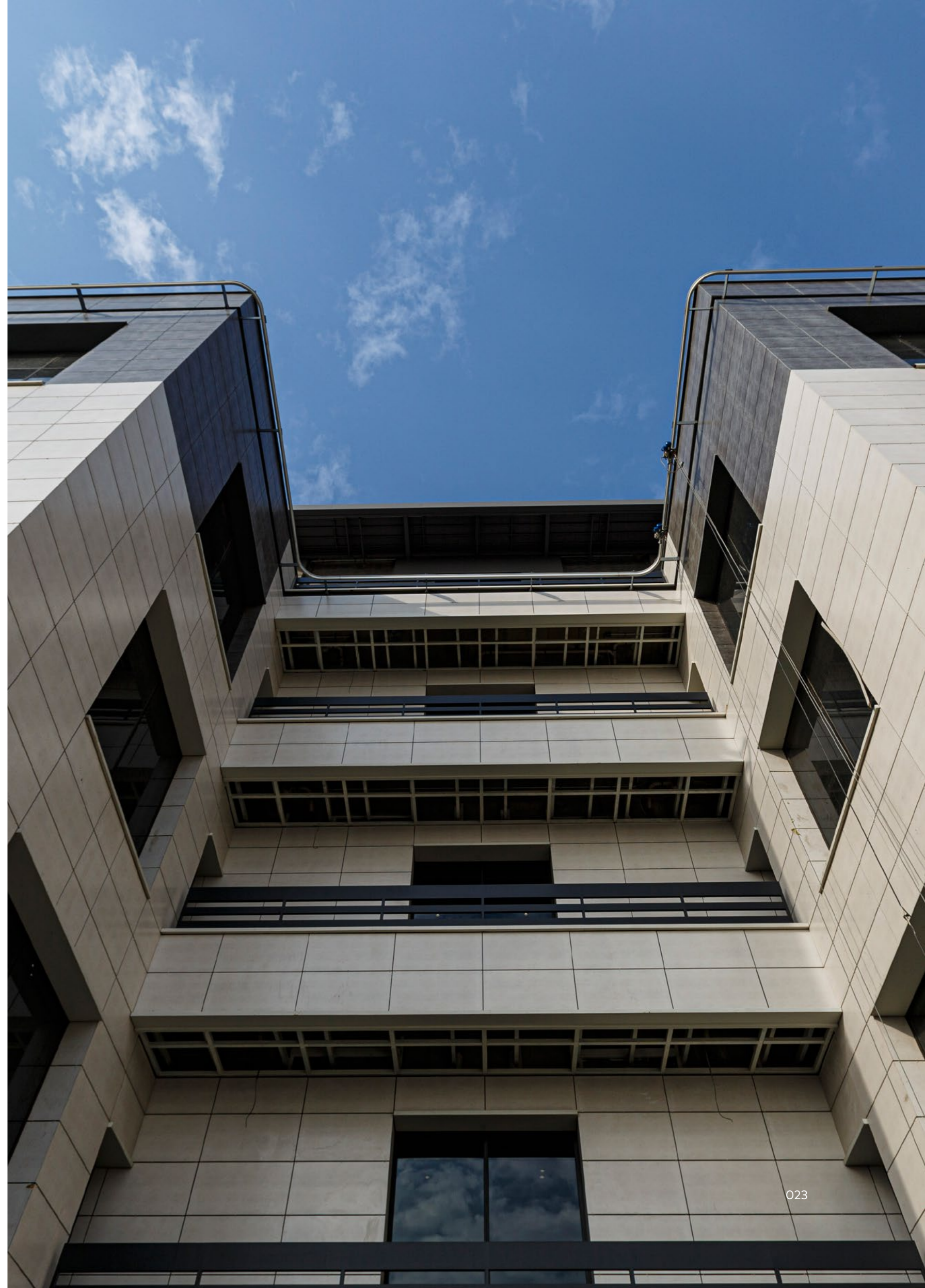
In fact, and more explicitly, since the texture on the glaze is slightly porous, this material is resistant to rapid weather changes, and mass contraction and expansion. In comparison to concrete slabs, porcelain pavers are more reasonable and easy-to-work with by far.

— *evidence confirms our quality...*

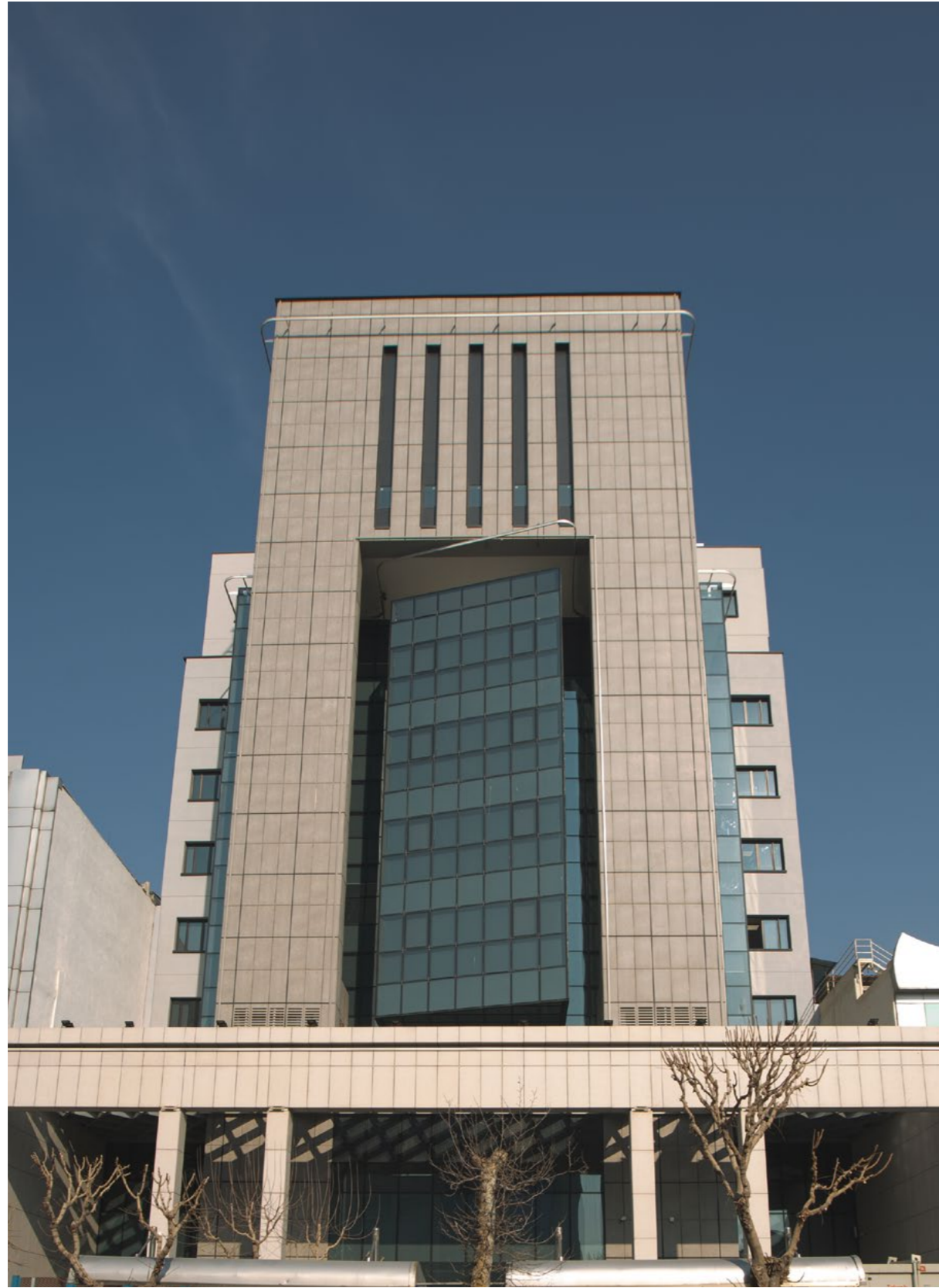


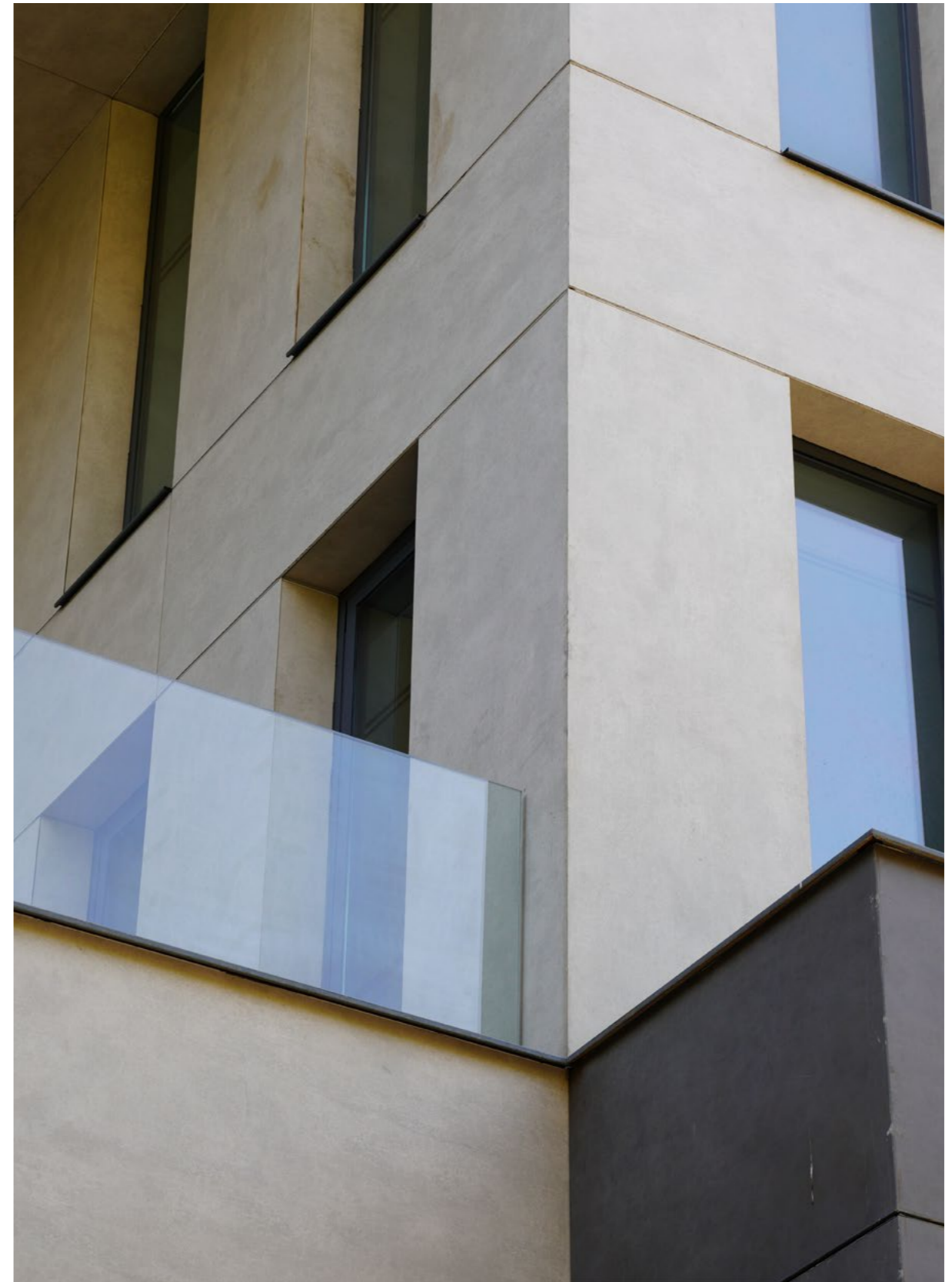
PMA  
Façade  
Projects





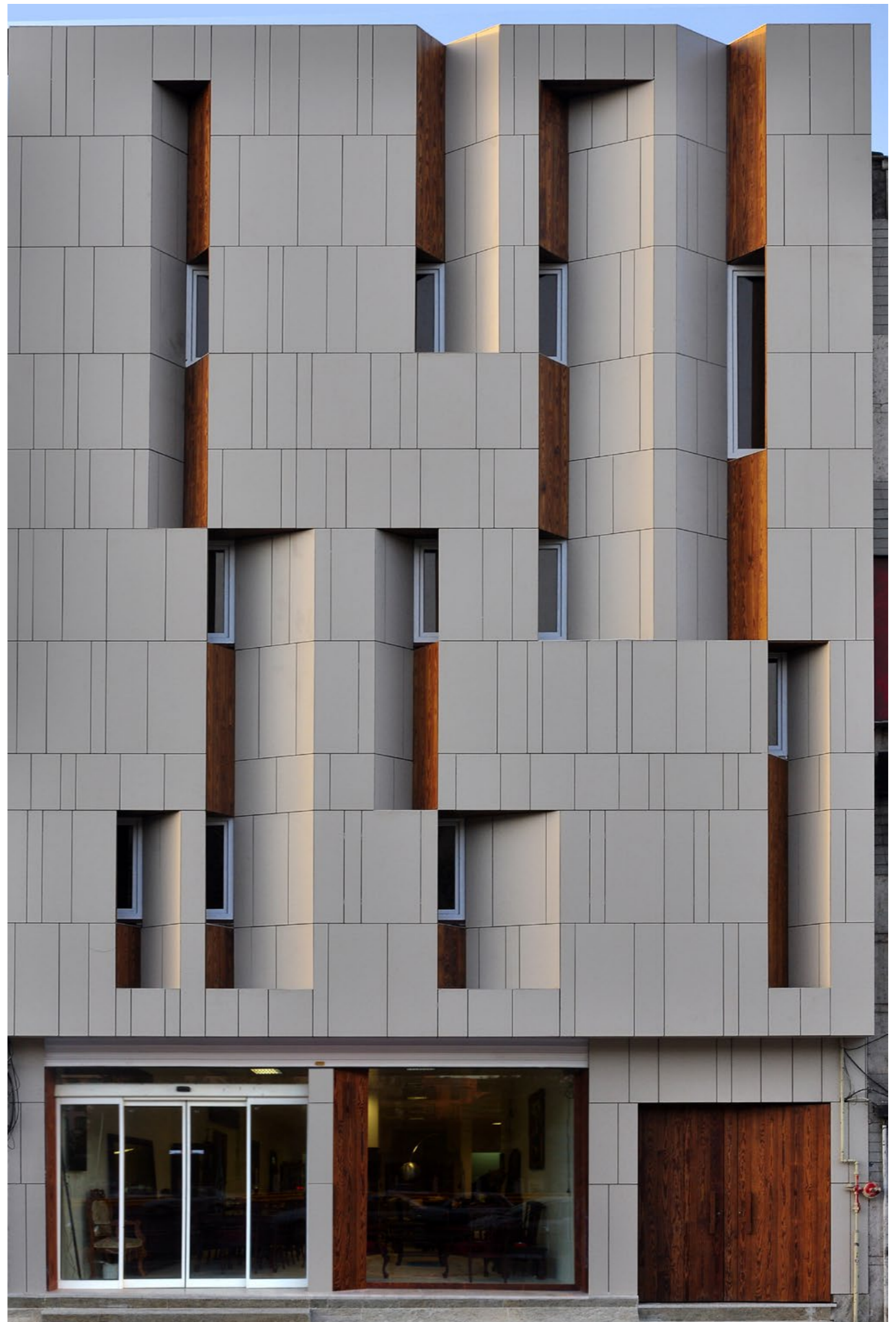
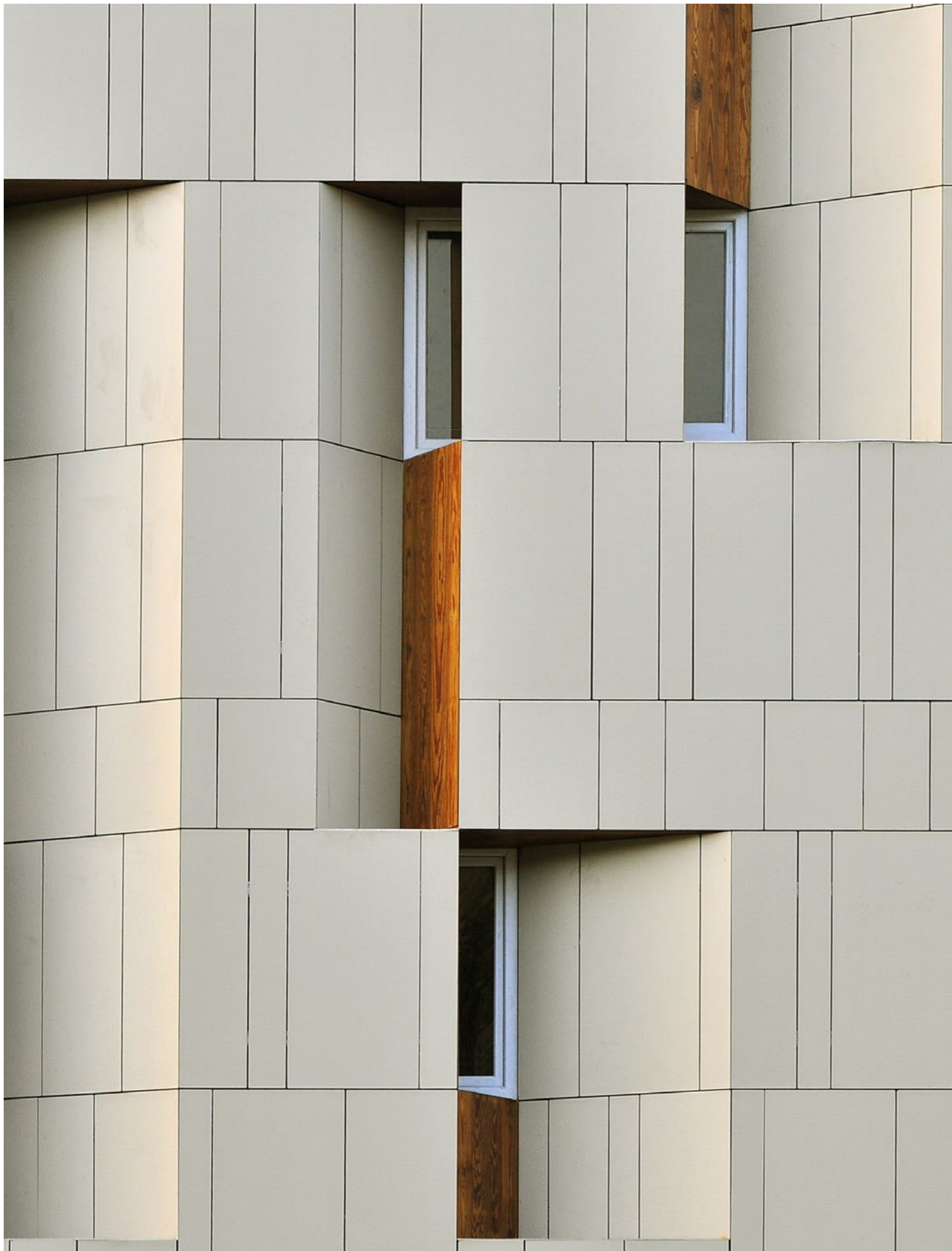




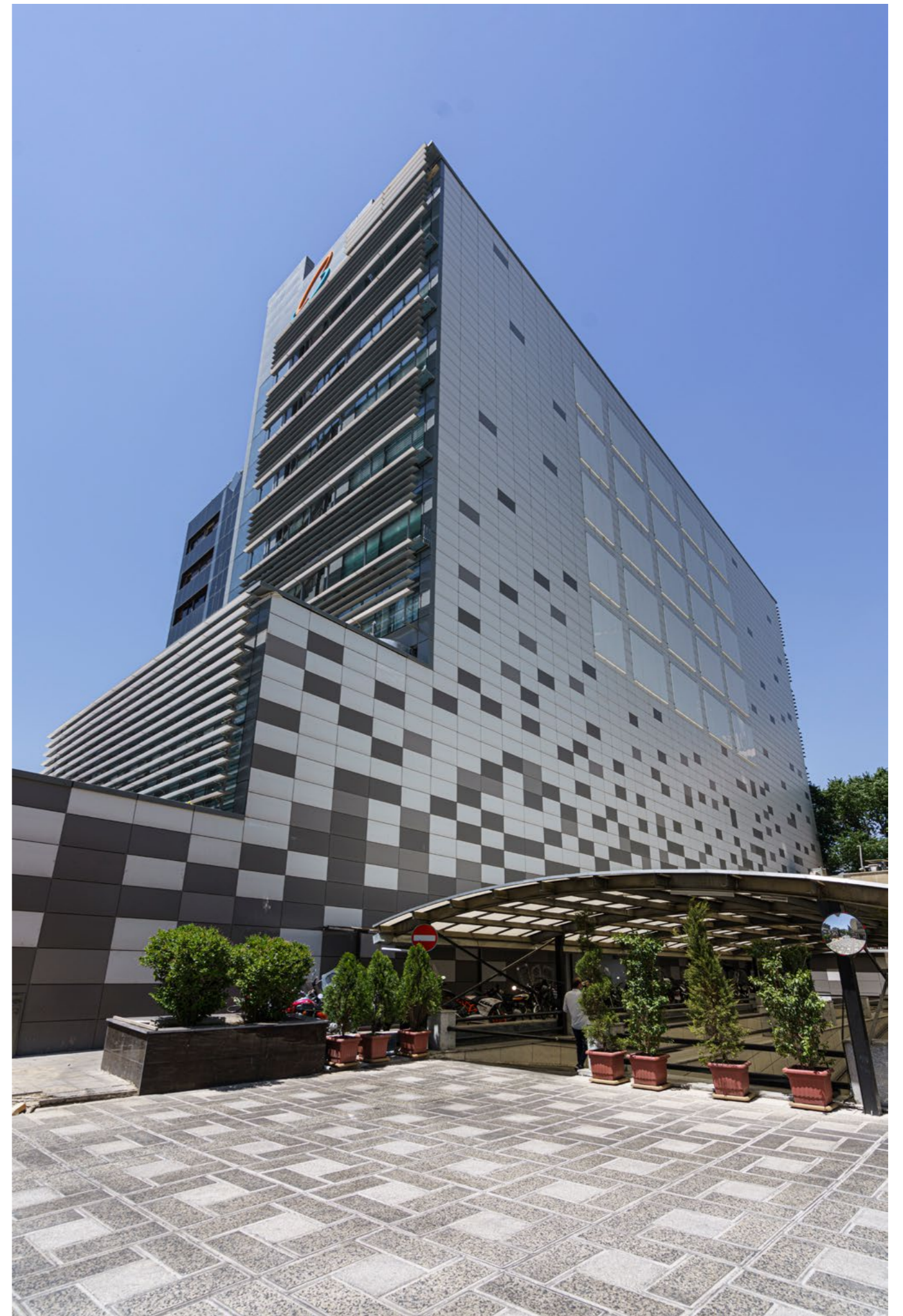








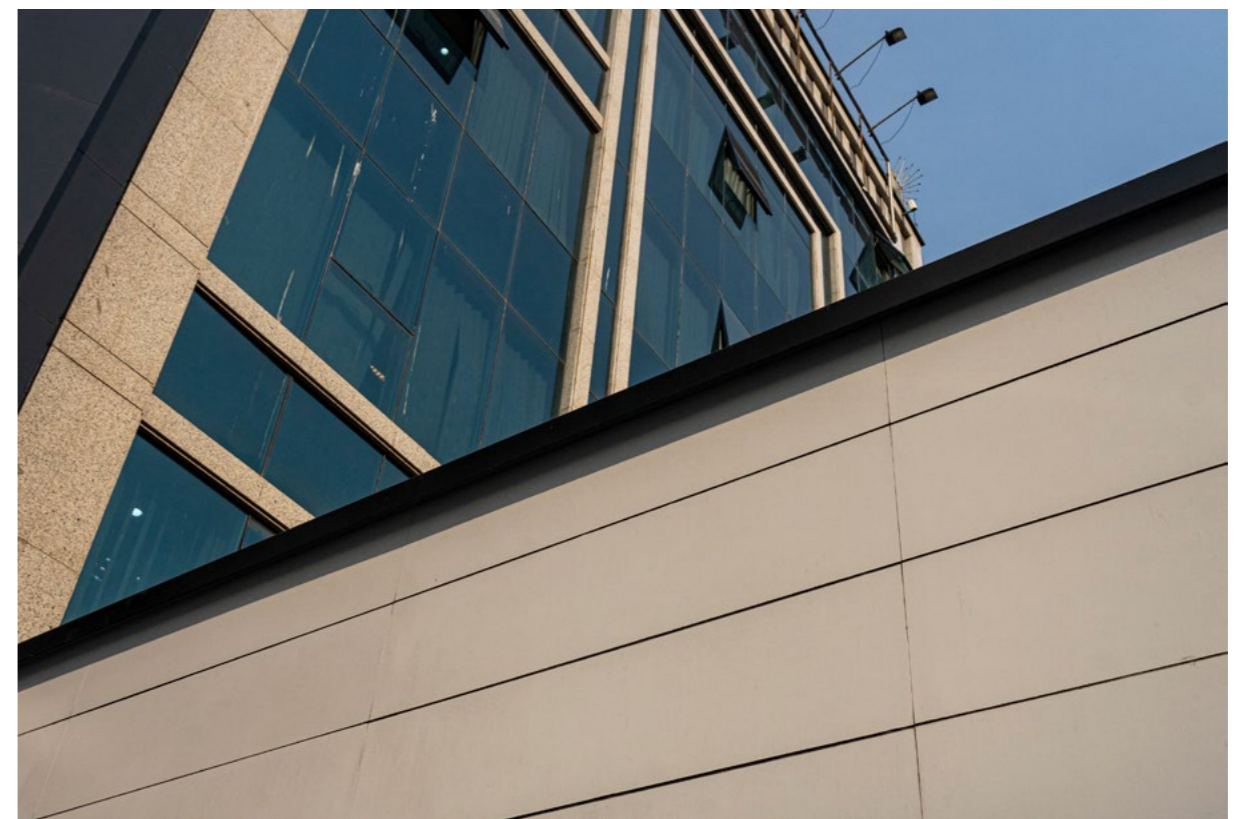


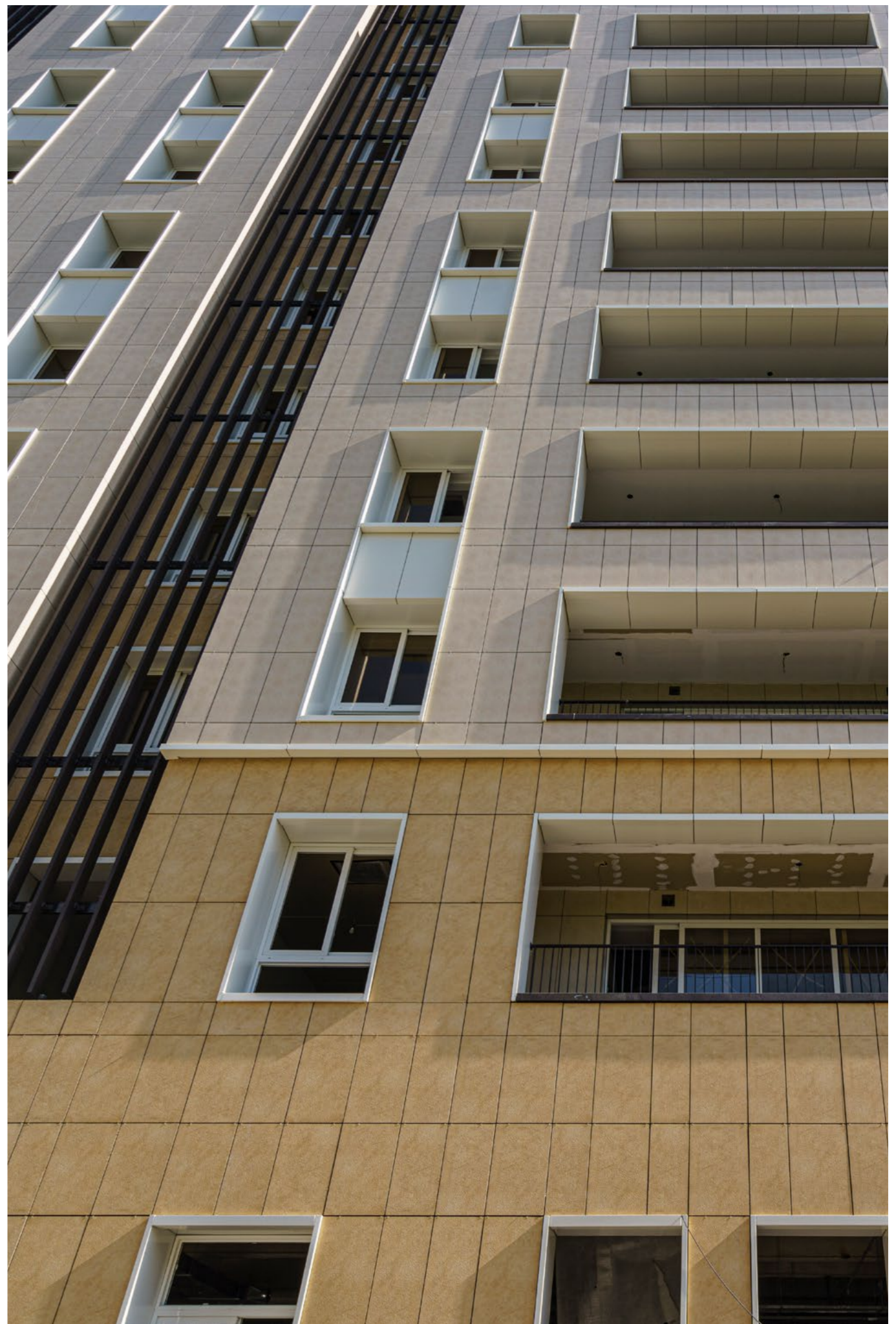








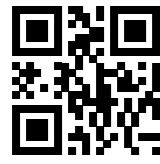








Collections



Available in other sizes upon demand. in different sizes, the product details such as thickness, shade, etc may differ from this sample. For more details please get in touch with the sales department.



STONE

# NATIVE

COLOR BODY	SURFACE	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
WHITE	Matte					
	Semi Polished					
	Relief		FGM-R1450			
LIGHT GREY	Matte					
	Semi Polished					
	Relief		FGM-R1455			
GREY	Matte					
	Semi Polished					
	Relief		FGM-R1460			
DARK GREY	Matte					
	Semi Polished					
	Relief		FGM-R1465			
BLACK	Matte					
	Semi Polished					
	Relief		FGM-R1470			
INSTALLATION METHOD		20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
Visible Clips			•			
Keil System			•			

# NATIVE

"Native" is an elegant slate with delicate and light veins that are deeply interwoven to create a subtle and sophisticated pattern. Native's relief texture evokes a modern interpretation of natural stone in a way that its low contrast and homogenous theme make it a perfect backdrop for any design style.

It is time to upgrade your space with the natural beauty of "Native" and experience the durability of porcelain with a touch of natural stone charm.





Available in other sizes upon demand. in different sizes, the product details such as thickness, shade, etc may differ from this sample. For more details please get in touch with the sales department.



STONE

# STONETECH

COLOR BODY	SURFACE	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
SOIL	Matte					
	Semi Polished					
	Relief		FGM-R1175			
LIGHT GREY	Matte					
	Semi Polished					
	Relief		FGM-R1160	FGM-C1160		
GREY	Matte					
	Semi Polished					
	Relief		FGM-R1165	FGM-C1165		
COAL GREY	Matte					
	Semi Polished					
	Relief		FGM-R1170	FGM-C1170		
INSTALLATION METHOD		20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
Visible Clips			•	•		
Keil System			•	•		

# STONETECH

Stonetech is «monolithic»; it indicates harmony despite being unified. Stonetech comes with a natural stone relief that is soft to touch, yet express a fine natural stone look surface. Parallel details with a sufficient amount of monotone surface make this design fashionable yet suitable for facade and outdoor applications.





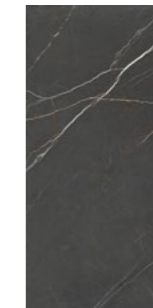
Available in other sizes upon demand. in different sizes, the product details such as thickness, shade, etc may differ from this sample. For more details please get in touch with the sales department.



LIGHT GREY

GREY

ANTHRACITE



MARBLE

# PANTHEON MARBLE

COLOR BODY	SURFACE	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
LIGHT GREY	Matte		FGM-R1320			
	Semi Polished			LFG-C1320		
	Relief					
GREY	Matte		FGM-R1325			FGM-L1325
	Semi Polished			LFG-C1325		
	Relief					
ANTHRACITE	Matte		FGM-R1330			
	Semi Polished			LFG-C1330		
	Relief					
INSTALLATION METHOD		20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
Visible Clips			•	•		
Keil System			•	•		•

# PANTHEON MARBLE

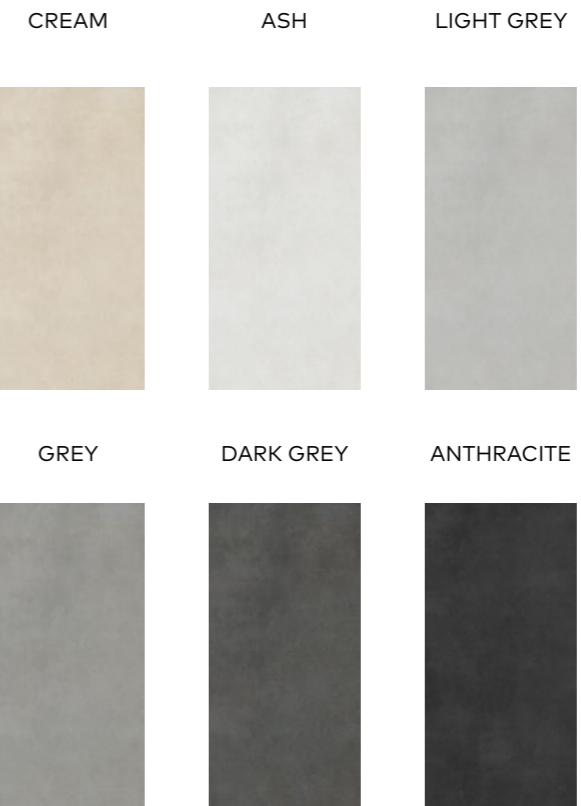
Pantheon has an outstanding styling. Its grey surface embraces pure white veining in detailed smooth base texture with disperse splashes and slight movements of taupe veins that increases the beauty and enhances the grace of Pantheon's design. Pantheon's minimal and modern style gives you the chance of experiencing elegance and luminosity.







Available in other sizes upon demand. in different sizes, the product details such as thickness, shade, etc may differ from this sample. For more details please get in touch with the sales department.



CEMENT

# NATURAL CONCRETE

COLOR BODY	SURFACE	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
CREAM	Matte		FGM-R5255			
	Semi Polished					
	Relief					
ASH	Matte		FGM-R5090	FGM-C5090	FGM-A5090	FGM-L5090
	Semi Polished					
	Relief					
LIGHT GREY	Matte		FGM-R5200	FGM-C5200	FGM-A5200	FGM-L5200
	Semi Polished					
	Relief					
GREY	Matte		FGM-R5095	FGM-C5095	FGM-A5095	FGM-L5095
	Semi Polished					
	Relief					
DARK GREY	Matte		FGM-R5100			FGM-L5100
	Semi Polished					
	Relief					
ANTHRACITE	Matte		FGM-R5250	FGM-C5250		FGM-L5250
	Semi Polished					
	Relief					
INSTALLATION METHOD		20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
Visible Clips			•	•		
Keil System			•	•	•	•

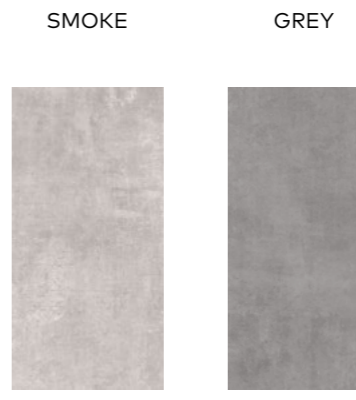
# NATURAL CONCRETE

A concrete-effect collection which combines all the advantages of ceramic tiles with a perfect look to create a strong contemporary allure. Thanks to natural textures and neutral colors, concrete effect tiles are the perfect solution to a contemporary and minimalism style of design. Versatile collections to use in residential contexts and also administrative and industrial projects for indoor and outdoor spaces.





Available in other sizes upon demand. in different sizes, the product details such as thickness, shade, etc may differ from this sample. For more details please get in touch with the sales department.



CEMENT

# BETON ART

COLOR BODY	SURFACE	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
SMOKE	Matte		FGM-R785			
	Semi Polished					
	Relief					
GREY	Matte		FGM-R780			
	Semi Polished					
	Relief					
INSTALLATION METHOD		20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
Visible Clips			•			
Keil System			•			

# BETON ART

The interpreter of an essential but sophisticated style that stands out for the possibility of multiple combinations of cement effects designed to create integration, key element of the most attractive combination of concrete surface. Beton Art in 5 different colors and 5 random surfaces helps architects to achieve the esthetic of cement together with durability of porcelain, meet needs of modernity in their designs.



070



071



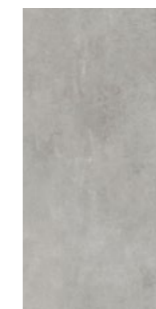
Available in other sizes upon demand. In different sizes, the product details such as thickness, shade, etc may differ from this sample. For more details please get in touch with the sales department.



ICE

GREY

DARK GREY



CEMENT

# CONTEMPORARY

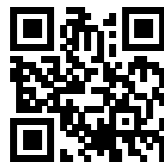
COLOR BODY	SURFACE	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
ICE	Matte		FGM-R1370			
	Semi Polished					
	Relief					
GREY	Matte		FGM-R1375			
	Semi Polished					
	Relief					
DARK GREY	Matte		FGM-R1380			
	Semi Polished					
	Relief					

INSTALLATION METHOD	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
Visible Clips		•			
Keil System		•			

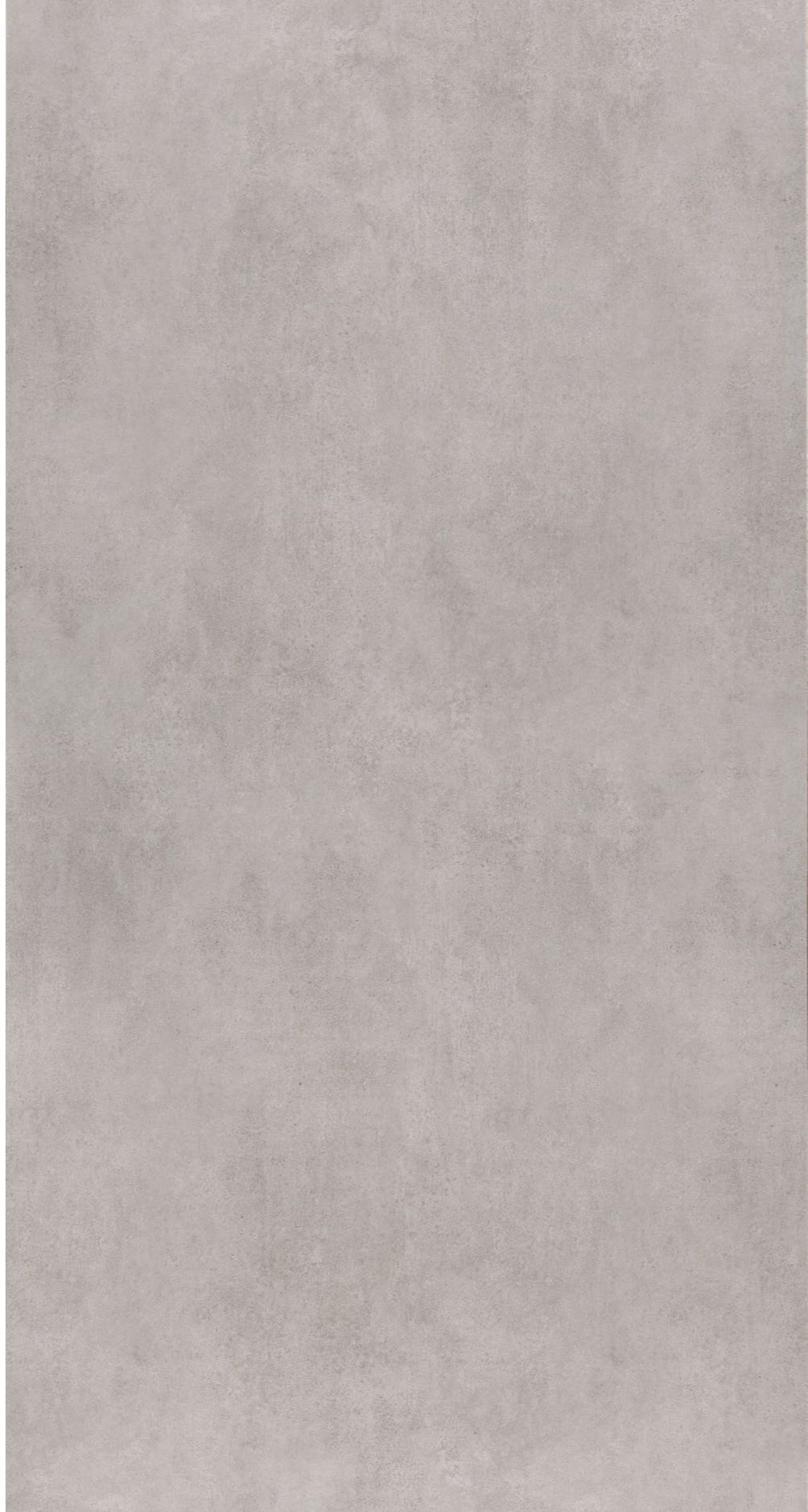
# CONTEMPORARY

Contemporary is a reflection of modern areas. Rough pattern and texture are combined to depict its modern appeal with a strong reference to its original material coming from the earth. Contemporary is a metropolitan inspiration accompanied by the sensation of durability that creates stylish spaces.





Available in other sizes upon demand. In different sizes, the product details such as thickness, shade, etc may differ from this sample. For more details please get in touch with the sales department.



CEMENT

# LUXURY CONCEPT

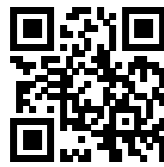
COLOR BODY	SURFACE	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
IVORY	Matte		FGM-R445			
	Semi Polished					
	Relief					
ASH	Matte		FGM-R430			
	Semi Polished					
	Relief					
DARK GREY	Matte		FGM-R440			
	Semi Polished					
	Relief					
INSTALLATION METHOD		20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
Visible Clips			•			
Keil System			•			

# LUXURY CONCEPT

For those who love simplicity and looking for the safety and functionality of porcelain, PMA Luxury Concept series in 6 different colors and matte surface provides natural structure of smooth concrete. This multifunctional product with a large variety of application area helps architects to create an environment that draw the viewers' gaze through shapes that make a connection between exterior and interior spaces.



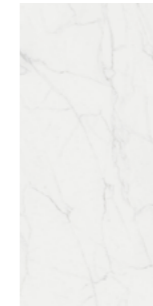




Available in other sizes upon demand. in different sizes, the product details such as thickness, shade, etc may differ from this sample. For more details please get in touch with the sales department.



CALACATTA SILVA



MARBLE

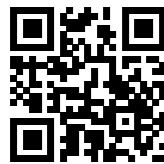
# CALACATTA SILVA

COLOR BODY	SURFACE	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
WHITE	Matte		FGM-R600	FGM-C600	FGM-A5015	FGM-L5015
	Semi Polished					
	Relief					
INSTALLATION METHOD		20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
Visible Clips			•	•		
Keil System			•	•	•	•

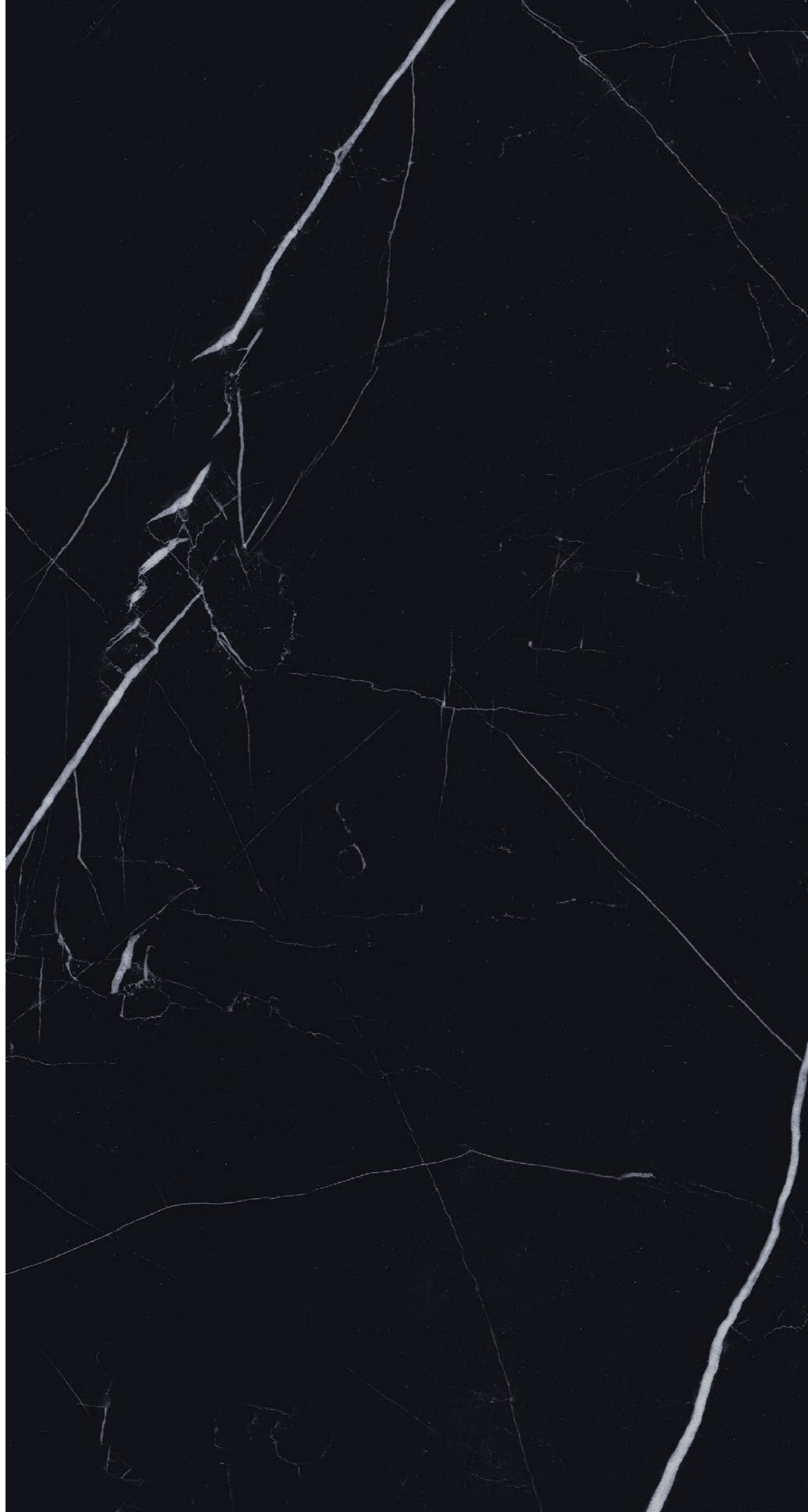
# CALACATTA SILVA

Calacatta Silva has the beauty of natural marble. Thanks to its porcelain character this product is suitable for private spaces to commercial world and helps architects to create a combination of modernity and practicality.





Available in other sizes upon demand. in different sizes, the product details such as thickness, shade, etc may differ from this sample. For more details please get in touch with the sales department.



NERO MARQUINA



MARBLE

# NERO MARQUINA

COLOR BODY	SURFACE	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
BLACK	Matte		FGM-R5030	FGM-C5030	FGM-A5030	FGM-L5030
	Semi Polished					
	Relief					
INSTALLATION METHOD		20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
Visible Clips			•	•		
Keil System			•	•	•	•

# NERO MARQUINA

Nero Marquina, has the intense elegance of black marble. With its ultra-thin white veins running along an extreme black surface, Nero Marquina by PMA is a full body porcelain slab suitable for ultra –sophisticated settings. Its visual perfection provides a unique visual impact.



086



087



Available in other sizes upon demand. in different sizes, the product details such as thickness, shade, etc may differ from this sample. For more details please get in touch with the sales department.



SOFT GREY

GREY

FANGO



STONE

# LITHOS

COLOR BODY	SURFACE	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
SOFT GREY	Matte		FGM-R1115			
	Semi Polished					
	Relief					
GREY	Matte		FGM-R1120			
	Semi Polished					
	Relief					
FANGO	Matte		FGM-R1125			
	Semi Polished					
	Relief					

INSTALLATION METHOD	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
Visible Clips		•			
Keil System		•			

# LITHOS

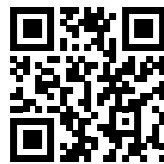
Lithos combines the characteristics of different European lime stones to bring a feeling of soft delicate surface, yet present a rough sturdy structure. The series is suitable for any type of usage.



090



091



Available in other sizes upon demand. In different sizes, the product details such as thickness, shade, etc may differ from this sample. For more details please get in touch with the sales department.



MONOCOLOR

# MONOCOLOR NIGHT

COLOR BODY	SURFACE	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
WHITE	Matte		GM-R9305			
	Semi Polished					
	Relief					
LIGHT GREY	Matte		GM-R9380			
	Semi Polished					
	Relief					
DARK GREY	Matte		GM-R9385			
	Semi Polished					
	Relief					
BLACK	Matte		GM-R9388			
	Semi Polished					
	Relief					
INSTALLATION METHOD		20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
Visible Clips			•			
Keil System			•			

# MONOCOLOR NIGHT

A perfect synthesis of technology, simplicity and pureness, living all in full colors. From light of white to darkness of black with combination of joyful day colors. Monocolor series of PMA make architects dream come true by offering them a range of selected colors to create genial, flawless and solid spaces.







Available in other sizes upon demand. in different sizes, the product details such as thickness, shade, etc may differ from this sample. For more details please get in touch with the sales department.



ALMOND      WALNUT      VENGE



WOOD

# MAXIWOOD

COLOR BODY	SURFACE	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
ALMOND	Matte					
	Semi Polished					
	Relief	FGM-B810				
WALNUT	Matte					
	Semi Polished					
	Relief	FGM-B815				
VENGE	Matte					
	Semi Polished					
	Relief	FGM-B820				

INSTALLATION METHOD	20x120 cm	60x120 cm	80x160 cm	120x240 cm	120x280 cm
Visible Clips	•				
Keil System	•				

# MAXIWOOD

Maxiwood is a great mix of warmth and elegance which is perfectly in harmony with the latest innovative trends. Maxiwood surface is enhanced by relief punch that gives natural touch with new emotion of wooden material character and personality to every setting. Thanks to the stable nature of porcelain, Maxiwood is able to tackle every condition and offers new uses of wood for floors and walls in residential and commercial spaces.

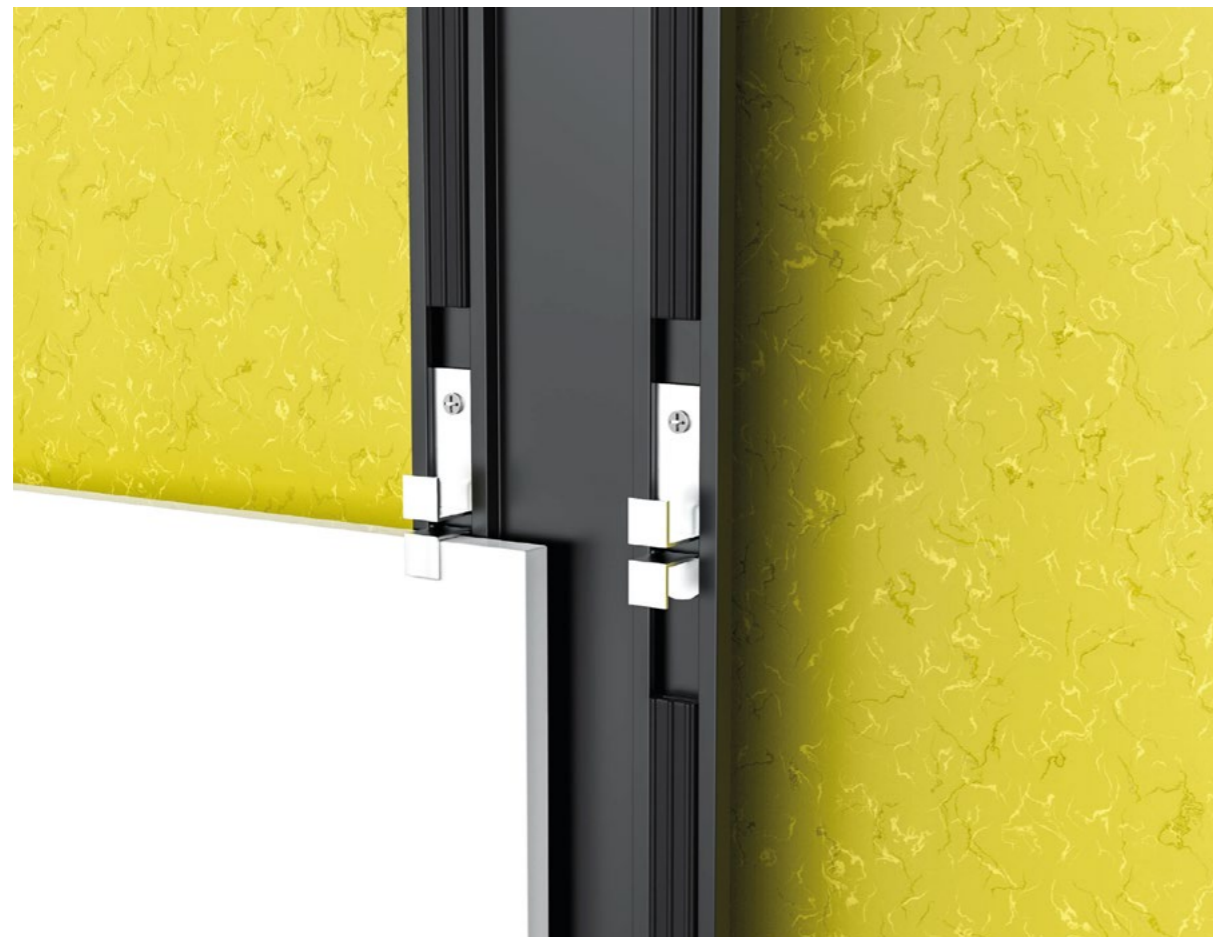
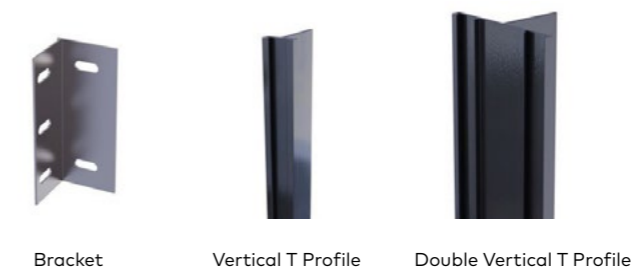


Tile  
Application  
Methods

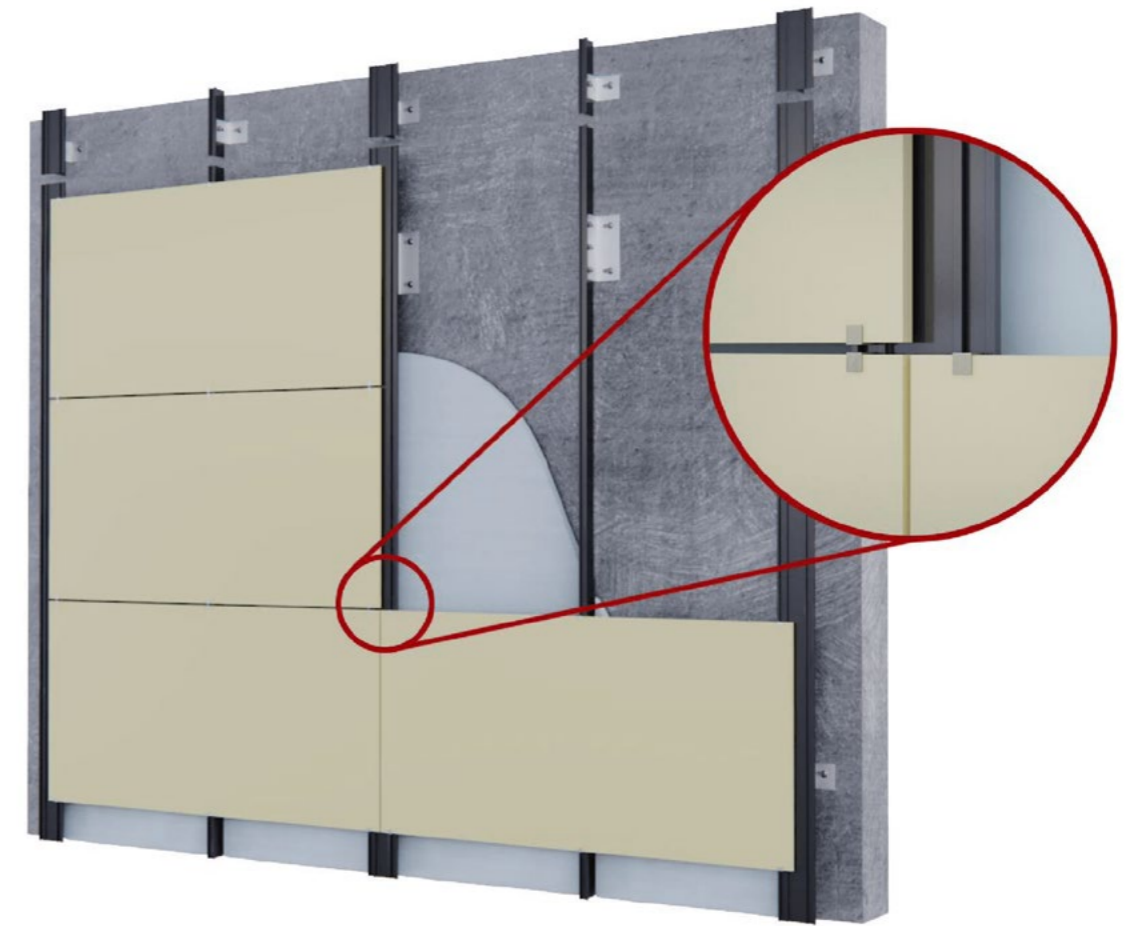
# Visible Mechanical Fixing System

## (Clip System)

This fixing system is one of the most reliable systems for porcelain tile ventilated facades. Thanks to its several advantages such as high fixing speed, adjustment capability, and ease of ceramic tile replacement, this method is widely used. In this method, the clip is placed in such a way that the ceramic tile is placed inside and restrained. The clip is connected to the aluminum substructure as shown below. The clips are made of stainless steel and they can be painted with colors appropriate to the ceramic tile color to avoid attracting attention.



Visible mechanical fixing system

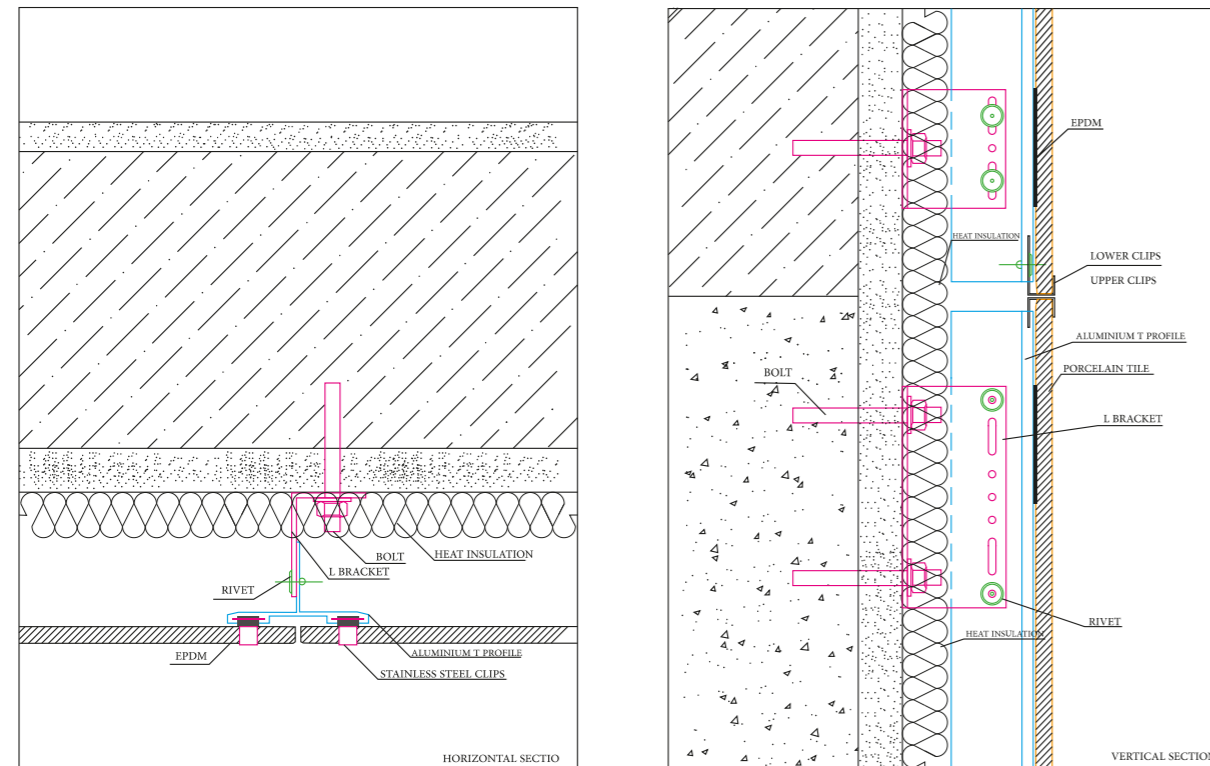


Visible mechanical fixing system components

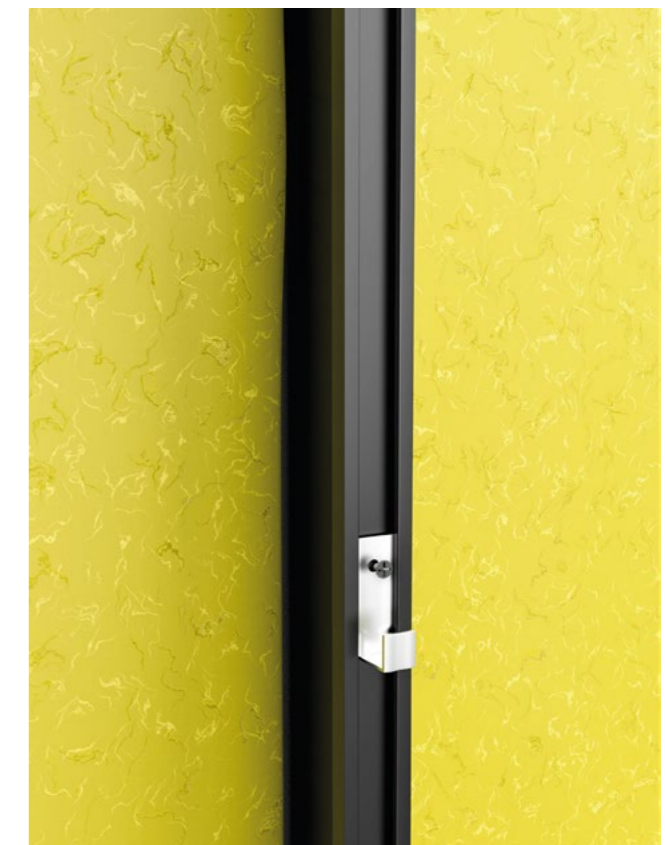
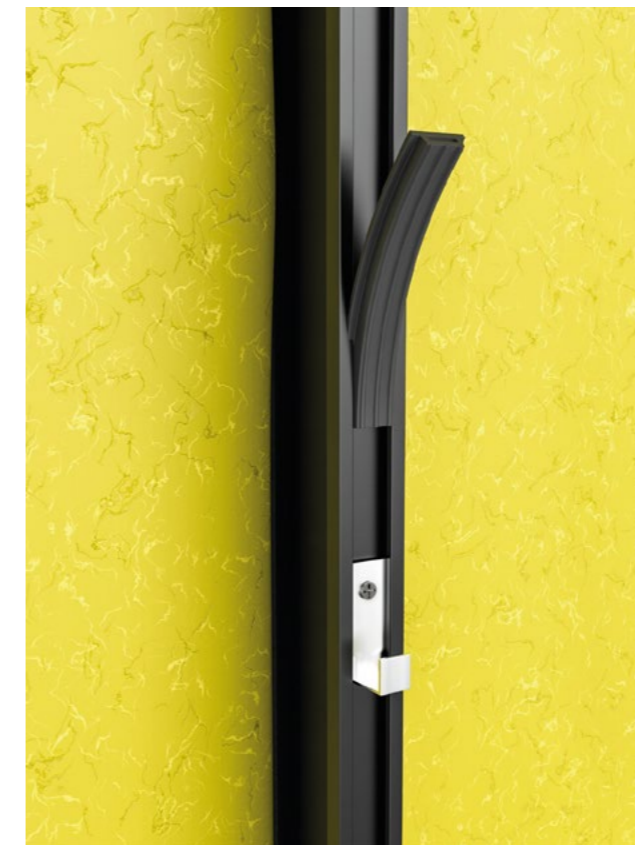
The stages of visible mechanical fixing system are:

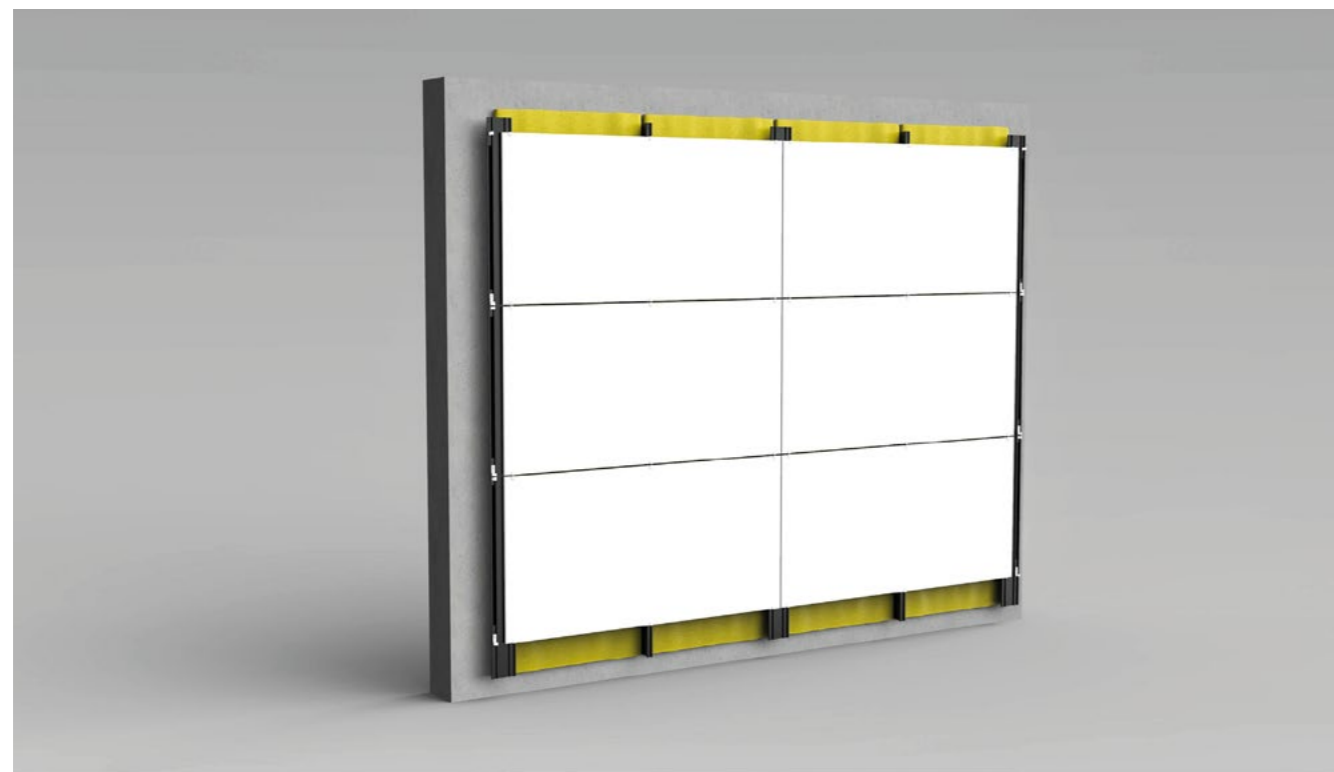
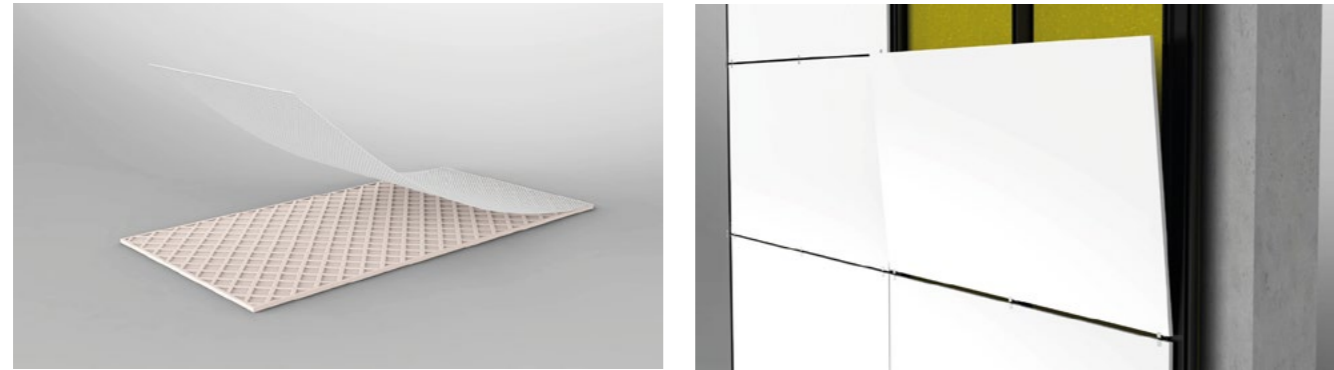
1. Preparing a workshop plan based on the current condition of the building façade
2. If necessary, the installation of a steel substructure to eliminate dimensional irregularities of the building
3. After designing the facade elements, according to the obtained design, the brackets are connected to the retaining wall or steel substructure by mechanical fasteners.
4. At this stage, a suitable thermal insulation is applied on the retaining wall.
5. After that, the vertical profiles are connected on the brackets at a distance of approximately 10 cm from the facade of the building. The maximum distance from the axis to the axis of the vertical profiles from each other is 60 cm.
6. Then EPDM rubbers are placed in the vertical profile grooves.
7. The bottom clips are placed in the vertical profile groove and are screwed to it.
8. Considering the issue of civil defense and in order to prevent the ceramic tiles from falling from the facade, all the ceramic tiles should be reinforced with fiberglass mesh and suitable adhesive.
9. Ceramic tiles are placed on the bottom clips and then the top clips are placed in the profile groove and on the ceramic tiles.
10. There should be a distance of 4-8 mm between the ceramic tiles.
11. The facade is created by repeating this process.

It is recommended that the vertical profiles be cut at the floor levels so that each part has a separate function from the other parts.

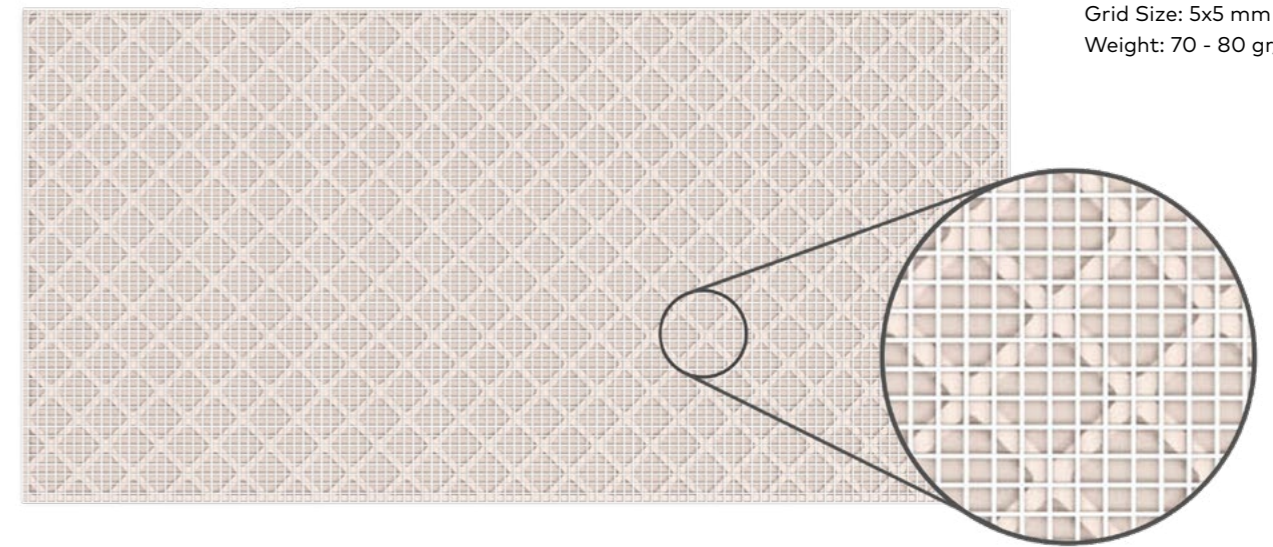


Visible mechanical fixing system details





Stages of visible mechanical fixing system



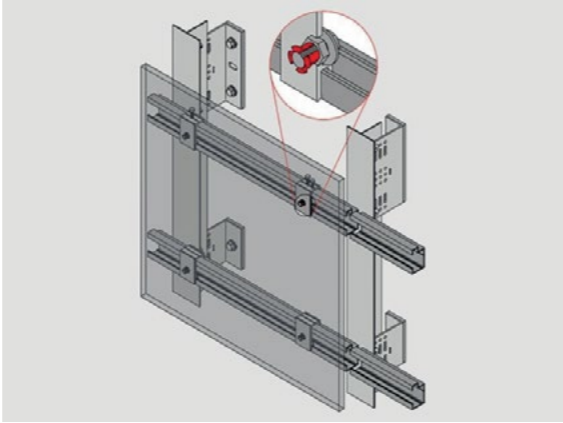
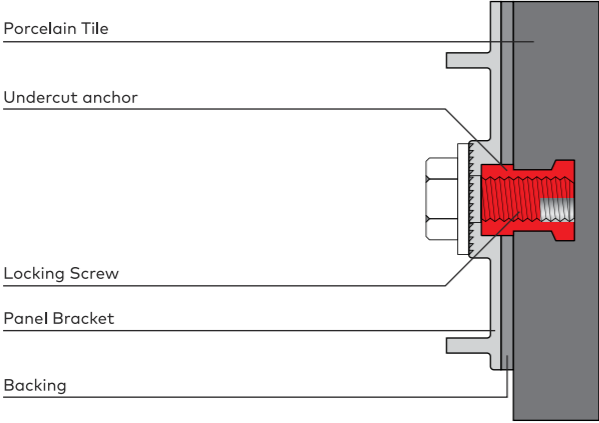
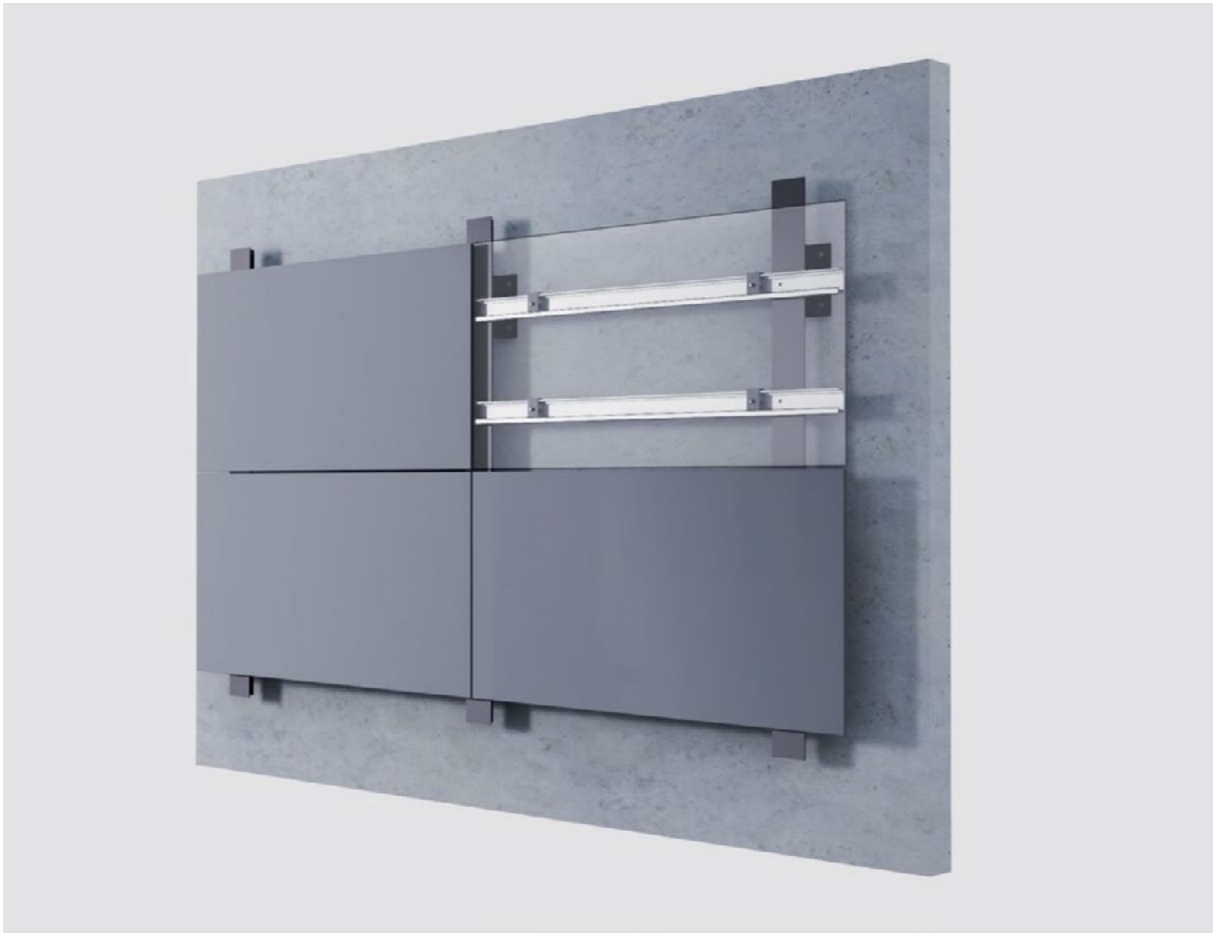
Fiberglass Mesh  
Grid Size: 5x5 mm  
Weight: 70 - 80 gr/m<sup>2</sup>

Ceramic tile reinforced with fiberglass mesh

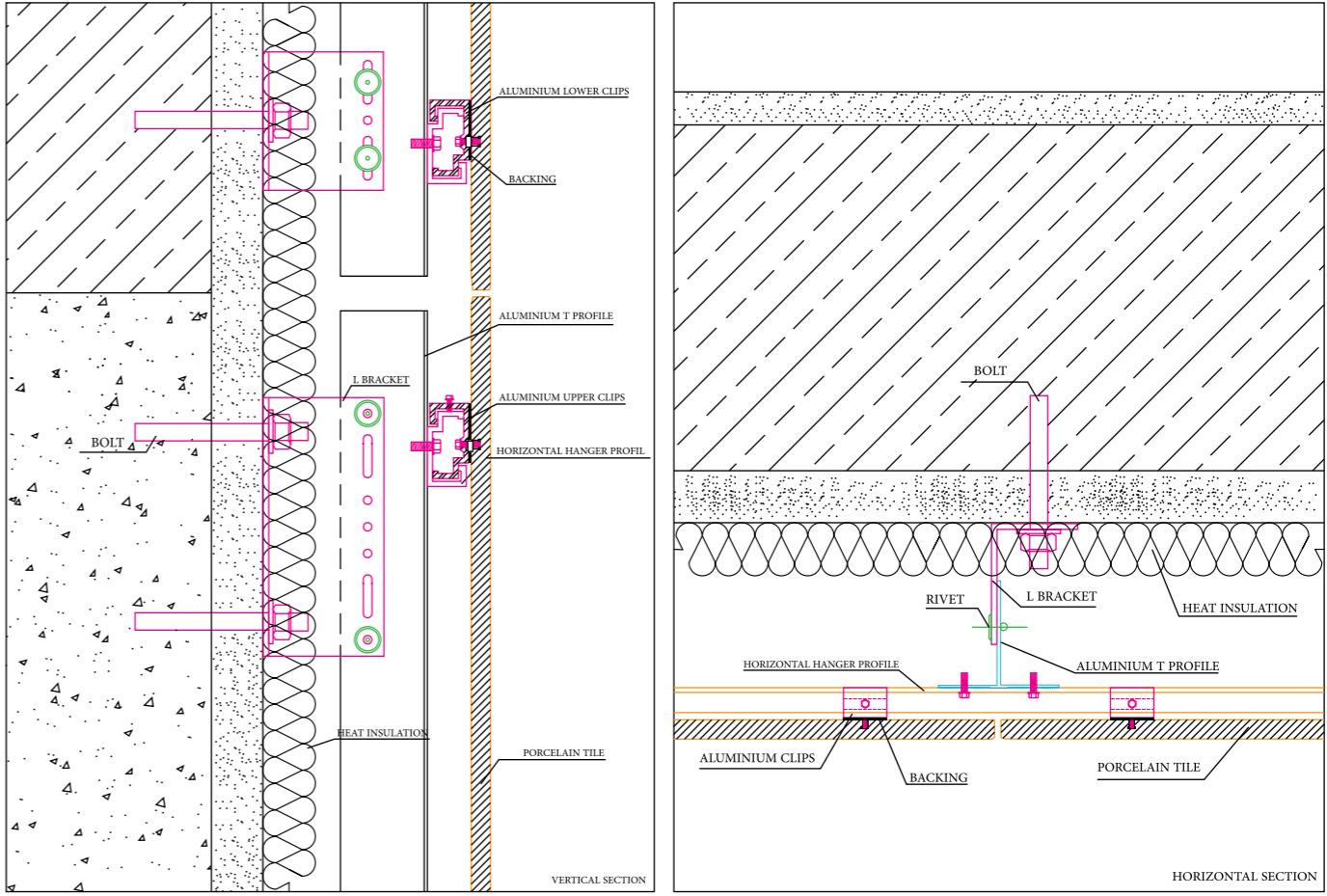
# Invisible Mechanical Fixing System

(Keil System)

In this system, bracket and anchor are installed behind the ceramic tiles and placed on aluminum substrate on the building facade. The brackets are made of aluminum. It is easily possible to adjust or replace any of the ceramic tiles anywhere on the facade.

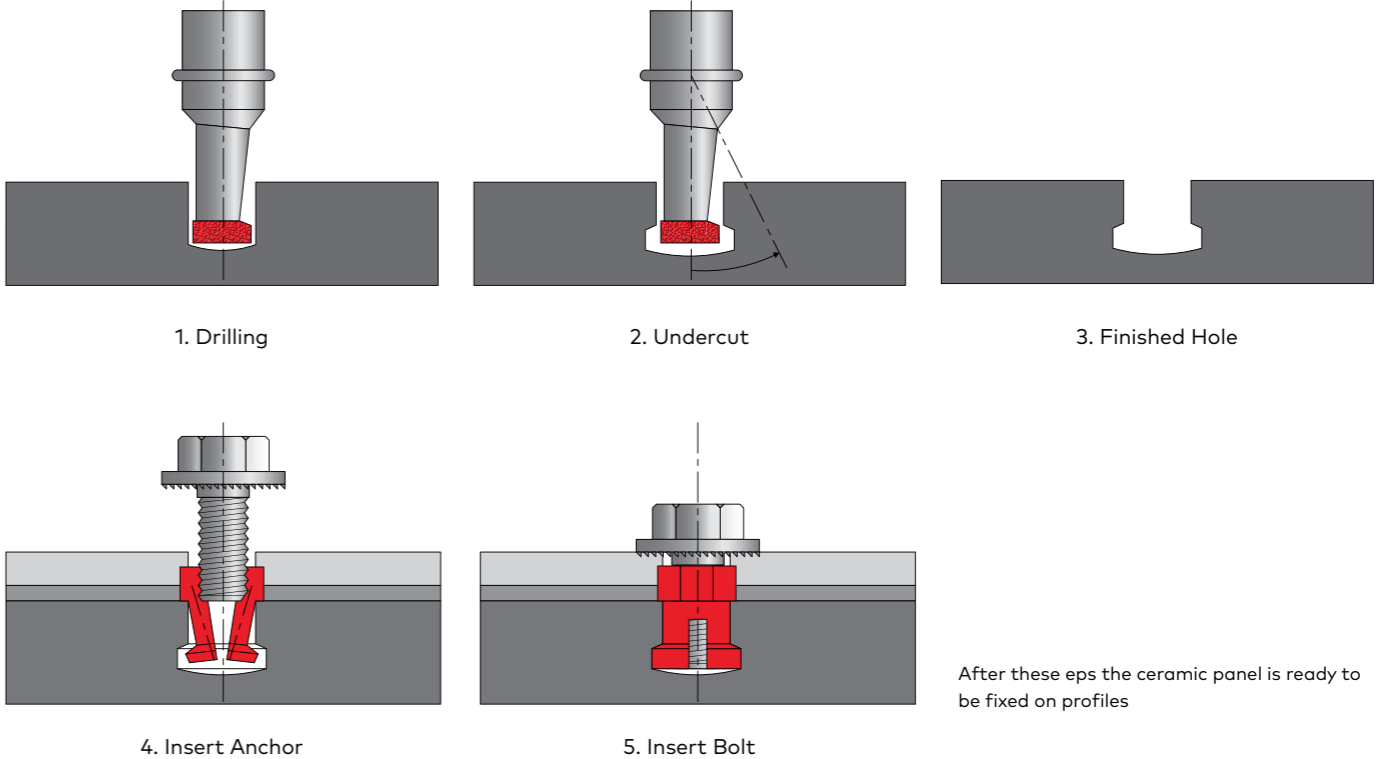


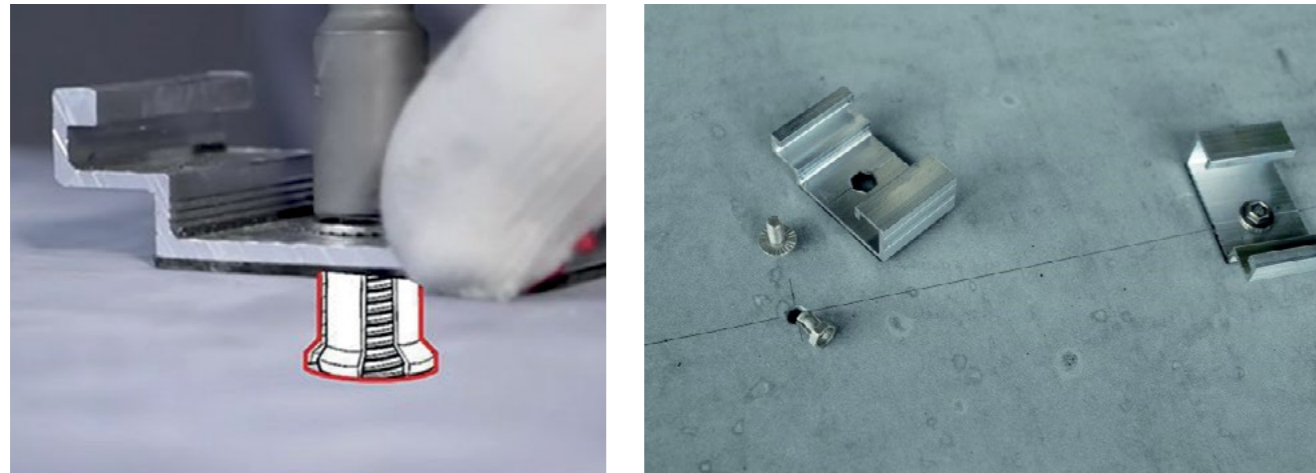
Stages of visible mechanical fixing system



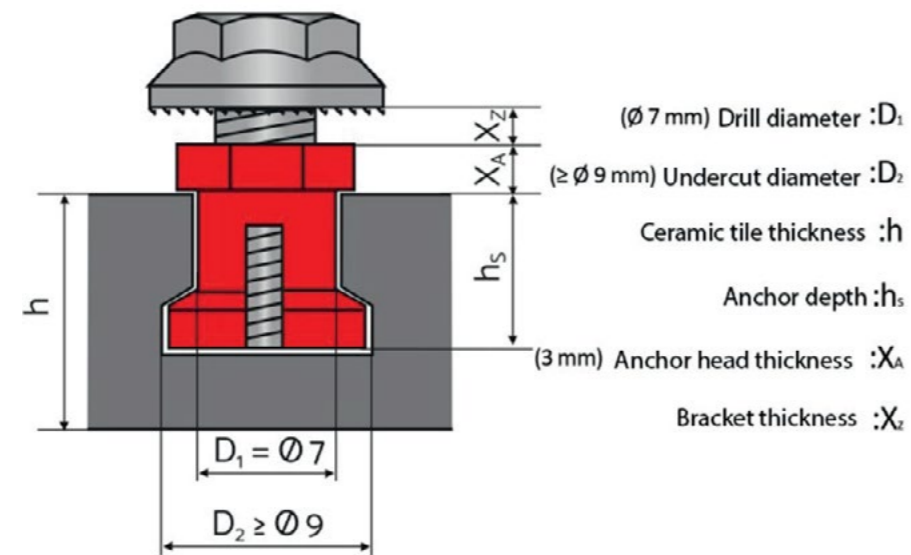
Invisible mechanical fixing system details

Preparation of ceramic panels  
Preparing a ceramic panel involves the following eps:





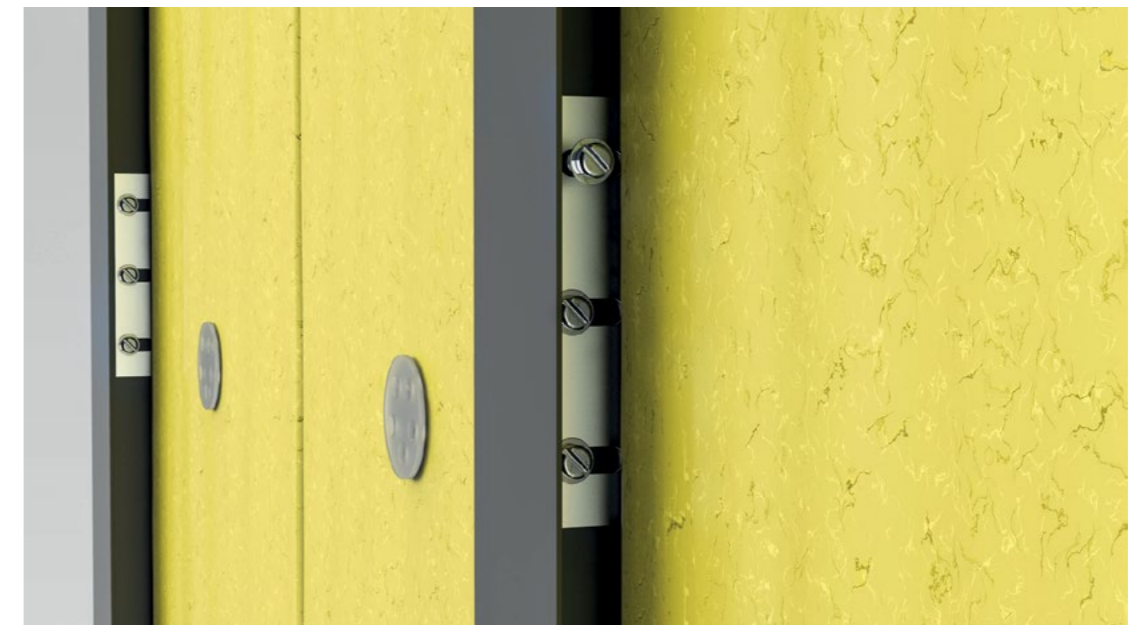
Preparation of ceramic panel



Undercut hole geometry

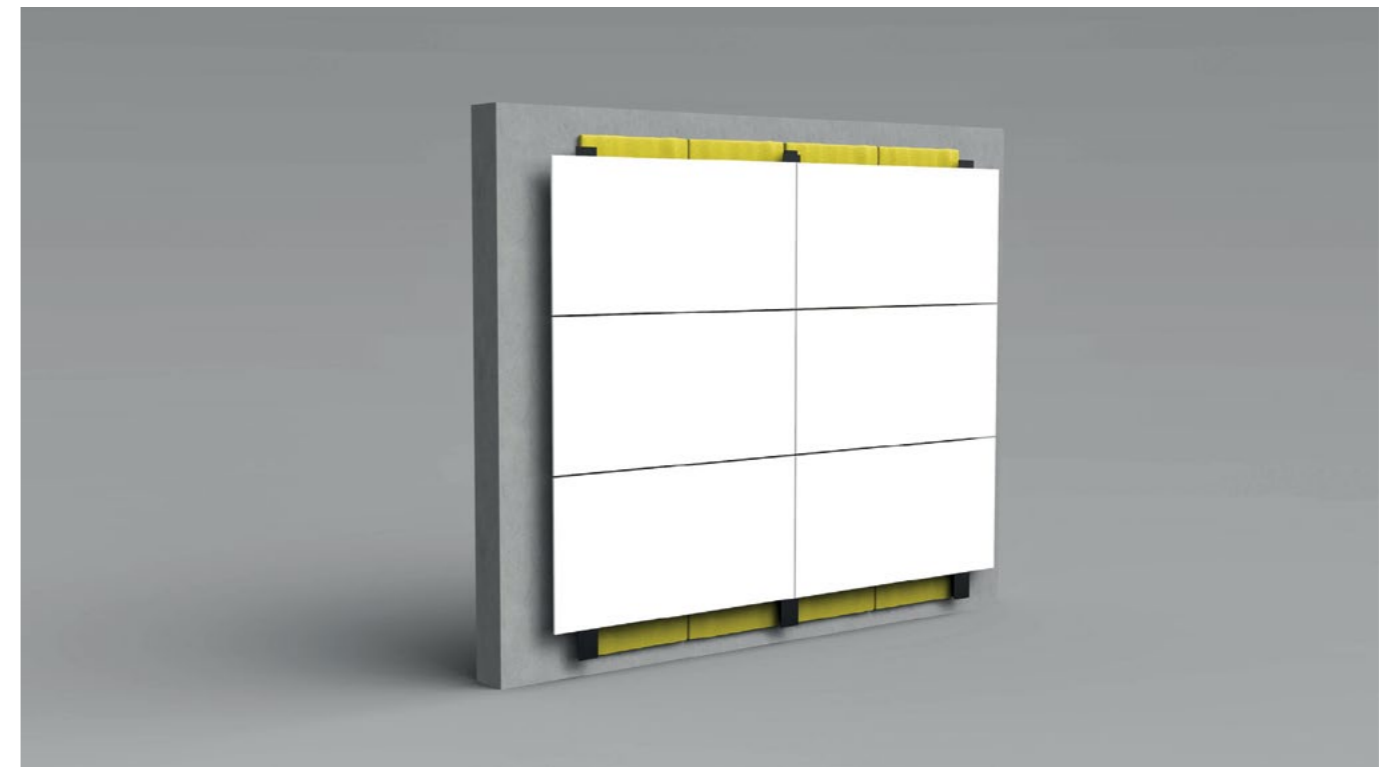
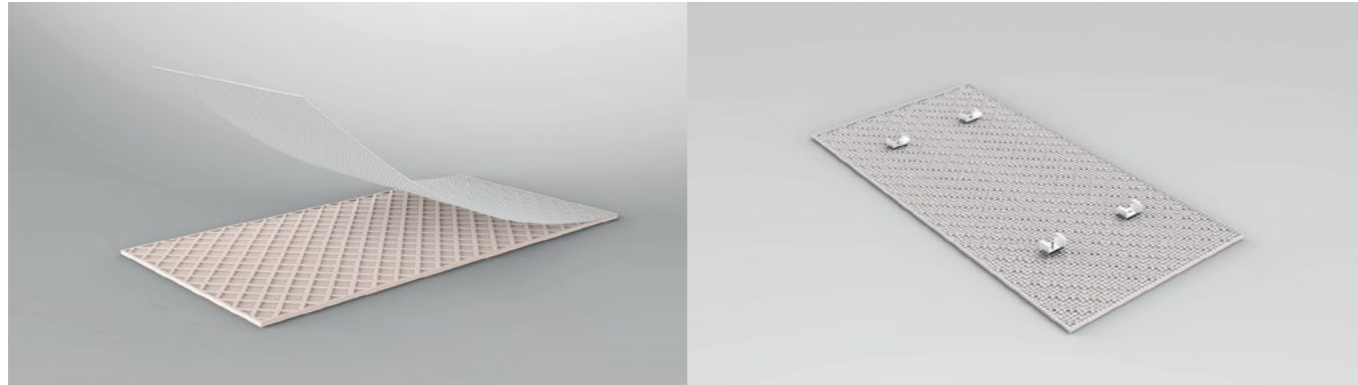
Invisible mechanical fixing system with anchors stages:

1. Preparing a workshop plan based on the current condition of the building façade
2. If necessary, the installation of a steel substructure to eliminate dimensional irregularities of the building
3. After designing the facade elements, according to the obtained design, the brackets are connected to the retaining wall or steel substructure by mechanical fasteners.
4. At this stage, a suitable thermal insulation is applied on the retaining wall.
5. Considering the issue of civil defense and in order to prevent the ceramic tiles from falling from the facade, all the ceramic tiles should be reinforced with fiberglass mesh and suitable adhesive.
6. Ceramic back holes are made using the special drilling machine and drill head.
7. The anchors are placed inside the undercut holes and the brackets are screwed. (To ensure a sturdy connection, the holes are filled with flexible polyurethane adhesive)
8. After that, the vertical profiles are connected on the brackets at a distance of approximately 15 cm from the facade of the building.
9. Horizontal profiles (runners) are also installed on vertical profiles at appropriate height.



Invisible mechanical fixing system with anchors stages

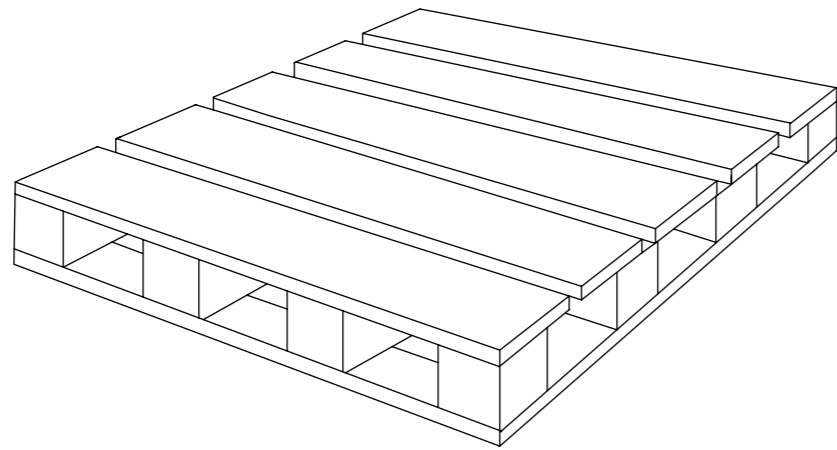




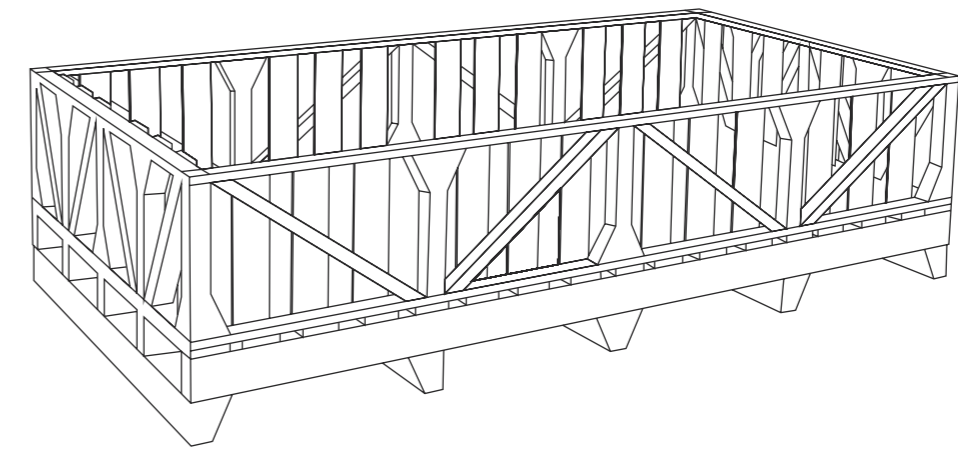
Invisible mechanical fixing system with anchors stages

Technical

# Packing



Size	Thickness	SQM/Box	Pieces/Box	KG/Box (Aprox)	Box/Pallet	KG/Pallet	SQM/Pallet
20x120 cm	11.5 mm	0.96	4	26	84	2021	80.64
60x120 cm Polished	11.5 mm	1.44	2	38.2	60	2292	86.4
60x120 cm Matte	11.5 mm	1.44	2	37.5	60	2250	86.4



Size	Thickness	SQM/Box	Pieces/Box	KG/Box (Aprox)	Box/Pallet	KG/Pallet	SQM/Pallet
80x160 cm	9 mm	1.28	-	27.6	50	1380	64
120x240 cm	9.5 mm	2.88	-	61.33	36	2650	103.68
120x280 cm	9.5 mm	3.36	-	71.55	36	2910	120.96

# Technical Information

## Ceramic tiles – Definitions, Classification, Characteristics Evaluation of Conformity and Marketing

Keramische Fliesen und Platten-Definitions, Klassifizierung, Eigenschaften, Konformitätsbewertung und Kennzeichnung

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 67.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherland, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

**Warning:** This document is not a European standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B1000- Brussels

### 3 Terms and definitions

For the purposes of this document, the terms and definitions are given in ISO 1006:1983 and the following apply.

#### 3.1

##### Ceramic tile

Tile made from clays and/or other inorganic raw materials

NOTE Tiles are usually shaped by extruding (Method A) or dry-pressing (Method B) at room temperature followed by drying and firing at temperatures sufficient to develop the required properties but can be formed by other processes (UGL)

#### 3.2

##### Porcelain ceramic tile

Fully vitrified ceramic tile water absorption of 0.5 % or less (i.e. groups Ala and Bla as given in Table 1)

#### 3.3

##### Glaze

The vitrified covering on ceramic tile

#### 3.4

##### Engobed surface

Clay-based covering with a matt finish which can be permeable or impermeable

NOTE A tile with an engobed surface is regarded as an unglazed tile.

#### 3.5

##### Polished surface

The surface of a glazed or unglazed tile which has been given glossy finish by mechanical polishing carried out after firing.

#### 3.6

##### Extruded ceramic tile

Ceramic tile whose body is shaped in the plastic state in an extruder, the column obtained being cut into tiles of predetermined dimension

NOTE 1 This European Standard classifies extruded tile as "precision" or "natural". Traditionally they were known as double extruded tiles or split tiles (precision) and single extruded tiles or quarry tiles (natural). Split tiles are produced as a double tile, which is split in two after firing. Split tiles are characterized by a typical parallel ridge on their reverse. Quarry tiles are shaped by cutting a single column and are often subsequently dry pressed.

NOTE 2 This European Standard classifies extruded tiles upon the different technical characteristics as listed in Annex to F and L

NOTE 3 Extruded ceramic tiles included the letter 'A' in their classification (see Table 1)

#### 3.7

##### Dry-pressed tile

Tile formed from a finely milled body mixture and shaped by pressing

NOTE 1 This European standard classifies dry-pressed tiles upon the different technical characteristics as listed in the Annex G to K

NOTE 2 Dry-pressed ceramic tiles include the letter 'B' in their classification (see Table 1).

#### 3.8

##### Spacer lug

The projection is located along certain edges of tiles so that when two tiles are placed together, in line, the lugs on adjacent edges separate the tiles by a distance not less than the specified width of the joint.

NOTE 1 Lugs are positioned so that the joint between the tiles may be filled with grout without the lugs remaining exposed.

NOTE 2 Dry-pressed tiles may be made with other spacer lug systems and, in such cases, the manufacture's work size applies.

NOTE 3 Figure 1 illustrates a ceramic tile without spacer lugs and figures 2 ceramic tiles with spacer lugs.

# Test Reports



**SERAMİK ARAŞTIRMA MERKEZİ A.Ş.**  
**STANDART TEST LABORATUVARI**

Merkez: Anadolu Üniversitesi Yunusemre Kampüsü  
ETGB Anadolu Teknoparkı No:107-103 ESKİŞEHİR  
Şube: Eskişehir Teknik Üniversitesi İki Eylül Kampüsü  
Mühendislik Fakültesi ESKİŞEHİR  
Mersis No: 0761048749700014  
Vergi Dairesi: Eskişehir Vergi Dairesi Başkanlığı Vergi No: 7610487497  
Tel: 0 (222) 323 82 76 - 335 09 59 Faks: 0 (222) 322 29 43  
Web: www.seramikarastirma.com.tr E-posta: mail@seramikarastirma.com.tr

**Rapor No: R 2068**  
Report Number

**DENEY RAPORU**  
Test report

**Müşterinin adı/adresi** : Pishgaman Memari Arya - - No. 80, West Brazil St.,  
Customer name and adress South Sheykh Bahayi St., Molla Sadra St., Tehran, IRAN

**İstek Numarası** : STL 22/2080  
Order no.

**Numunenin adı ve tarifi** : FGM-L5090 NATURAL CONCRETE ASH SOFT MATTE  
Name and identity of test item ORIGINAL SIZE: 120X280

**Numunenin kabul tarihi** : 30.11.2022  
The date of receipt of test item

**Açıklamalar** : Numune alma işlemi firma yetkilileri tarafından yapılmıştır.  
Remarks (Sampling operation is performed by the company.)

**Testin yapıldığı tarih** : 30.11.2022 – 01.12.2022  
Date of test

**Raporun Sayfa Sayısı** : 2  
Number of pages of the report

**Deneysel ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve test metodları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.**  
The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

**Test sonuçları sadece testleri yapılan numunelere aittir. Testi yapılan numuneler saklanmamaktadır.**  
Test results only belong to samples analysed. Analysed samples are not be kept.

**Test sonuçları numunenin teslim alındığı hali için geçerlidir.**  
The test results are valid for the samples as received.



**Mühür**  
Date  
01.12.2022

**Test Sorumlusu**  
Person in charge of test  
Efkân KARA

**SAM Koordinatörü**  
SAM Coordinator  
Prof. Dr. Servet TURAN

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.  
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**SERAMİK ARAŞTIRMA MERKEZİ A.Ş.**  
**STANDART TEST LABORATUVARI**

Ceramic Research Center  
Standard Testing Laboratory

**Rapor No: R2068**  
Report Number

**DENEY RAPORU**  
Test Report

**İLGİLİ STANDART (Related Standard) : TS EN ISO 10545-3**

**TEST ADI: SERAMİK KAROLAR - SU EMME TAYİNİ (Vakum Metodu ile)**

**TEST NAME: CERAMIC TILES – DETERMINATION OF WATER ABSORPTION (Vacuum method)**

NUMUNE SAMPLE	SU EMME (%) - Vakum metodu ile (Water absorption % - Vacuum method)
1	0.05
2	0.06
3	0.08
4	0.09
5	0.07
<b>ORTALAMA AVERAGE</b>	<b>0.07</b>

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.  
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**MODENA CENTRO PROVE s.r.l.**  
 Sede legale e Laboratori: 41123 Modena (Italy) - Via Sallustio, 78  
 Tel. 059 822417 r.a. - Fax 0598635115 - e-mail : [info@modenacentroprove.it](mailto:info@modenacentroprove.it) - [www.modenacentroprove.com](http://www.modenacentroprove.com)  
 C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 - C.F. e P. IVA n. 01592020364

MECCANICA      ECOLOGIA      CERAMICA      AUTOMOTIVE

Modena, 04/01/23

To **Pishgaman Memari Arya**  
 NO 80  
 WEST BRAZIL ST  
 SOUTH SHEYKH BAHAYI ST  
 MOLLA SADRA ST TEHRAN IRAN

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
Ceramic tiles	FGM-L5090	Your delivery	22/12/2022

Here attached, you will receive the Test Report of Serial No. **20227489/n**, which shows the results of tests required.

**MODENA CENTRO PROVE**

MODENA CENTRO PROVE  
  
 Director  
 Sant'Unione dr. Giuseppe



**MODENA CENTRO PROVE s.r.l.**  
 Sede legale e Laboratori: 41123 Modena (Italy) - Via Sallustio, 78  
 Tel. 059 822417 r.a. - Fax 059380281 - e-mail : [info@modenacentroprove.it](mailto:info@modenacentroprove.it) - [www.modenacentroprove.com](http://www.modenacentroprove.com)  
 C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 C.F. e P. IVA n. 01592020364



LAB N°1018L  
 Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC  
 Signatory of EA, IAF and ILAC Mutual Recognition Agreements

**TEST REPORT: 20227489/1**

Modena, 04/01/23

**CUSTOMER** Pishgaman Memari Arya - - No. 80  
**MATERIAL and/o SAMPLE to be tested** West Brazil St - South Sheykh Bahayi St - Molla Sadra St - Tehran - IRAN  
**Denomination** Ceramic tiles;  
**Date of sample reception** FGM-L5090;  
**Date of sample acceptance** 22/12/2022;  
**Kind of test executed** 22/12/2022;  
**Referring standards** Determination of Water Absorption  
**Shifting from standards** ISO 10545-3:2018  
**Equipment** No one  
**Subcontracted phases** Scales cod. MCP C148 - Tank for vacuum cod. MCP C128 - Forced ventilation stove cod. MCP C43  
**Sampling made by** No one  
 Customer

*The test results reported in this Test Report refer only to the sample sampled by our staff and / or given by the Customer as received.*

*The sample identification data were provided by the customer. Further additional information provided by the Customer will be reported in the Test Report in blue color. If the information provided by the customer influences the validity of the results, MCP declines all responsibility.*

*Any changes / additions made to the Test Report after its first issue will be identified by underlining the text.*

*The Customer undertakes to reproduce this document in its entirety. Any form of partial reproduction is prohibited.*

*The storage times of the samples are indicated on the offer or contract to which this Test Report refers.*

<b>Examiner</b>  p.i. Bortolai Alberto	MODENA CENTRO PROVE  Ceramic Dept. Responsible P.I. De Pasquale Roberto	MODENA CENTRO PROVE  Director Sant'Unione dr. Giuseppe
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[www.modenacentroprove.com](http://www.modenacentroprove.com)  
C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 C.F. e P. IVA n. 01592020364



### DETERMINATION OF WATER ABSORPTION

Beginning date : 30/12/2022

Analysis ending date : 02/01/2023

### RESULTS

Tested specimen dimensions (cm): 20x20  
N° specimens tested: 5

Sample n°	Water Absorption $E_v$ (%)
1	0,07%
2	0,08%
3	0,09%
4	0,07%
5	0,07%
<b>Average value</b>	<b>0,07%</b>

<p>Examiner  p.i. Bortolai Alberto</p>	<p>MODENA CENTRO PROVE  Ceramic Dept. Responsible P.I. De Pasquale Roberto</p>	<p>MODENA CENTRO PROVE  Director Sant'Unione dr. Giuseppe</p>
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**STANDART TEST LABORATUVARI**

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Şube: Eskişehir Teknik Üniversitesi İki Eylül Kampüsü  
Mühendislik Fakültesi ESKİŞEHİR  
Mersis No: 0761048749700014  
Vergi Dairesi: Eskişehir Vergi Dairesi Başkanlığı Vergi No: 7610487497  
Tel: 0 (222) 323 82 76 - 335 09 59 Faks: 0 (222) 322 29 43  
Web: www.seramikarastirma.com.tr E-posta: mail@seramikarastirma.com.tr

**Rapor No: R 0578**  
Report Number

**DENEY RAPORU**  
Test report

**Müşterinin adı/adresi** : Pishgaman Memari Arya -- No. 80, West Brazil St.,  
Customer name and adress South Sheykh Bahayi St., Molla Sadra St., Tehran, IRAN

**İstek Numarası** : STL 23/646  
Order no.

**Numunenin adı ve tarifi** : CODE: FGM-R5200 NAME: NATURAL CONCRETE LIGHT GREY SOFT  
Name and identity of test item MATTE ORIGINAL SIZE: 60 cm. x 120 cm

**Numunenin kabul tarihi** : 28.02.2023  
The date of receipt of test item

**Açıklamalar** : Numune alma işlemi firma yetkilileri tarafından yapılmıştır.  
Remarks (Sampling operation is performed by the company.)

**Testin yapıldığı tarih** : 28.02.2023 – 01.03.2023  
Date of test

**Raporun Sayfa Sayısı** : 2  
Number of pages of the report

**Deneysel ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve test metodları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.**  
The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

**Test sonuçları sadece testleri yapılan numunelere aittir. Testi yapılan numuneler saklanmamaktadır.**  
Test results only belong to samples analysed. Analysed samples are not be kept.

**Test sonuçları numunenin teslim alındığı hali için geçerlidir.**  
The test results are valid for the samples as received.



**Mühür**  
Date  
01.03.2023

**Test Sorumlusu**  
Person in charge of test  
Örgün SAKA

**SAM Koordinatörü**  
SAM Coordinator  
Prof. Dr. Servet TURAN

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**STANDART TEST LABORATUVARI**

Ceramic Research Center  
Standard Testing Laboratory

**Rapor No: R 0578**  
Report Number

**DENEY RAPORU**  
Test Report

**İLGİLİ STANDART (Related Standard) : TS EN ISO 10545-3**  
**TEST ADI: SERAMİK KAROLAR - SU EMME TAYİNİ (Vakum Metodu ile)**  
TEST NAME: CERAMIC TILES – DETERMINATION OF WATER ABSORPTION (Vacuum method)

NUMUNE SAMPLE	SU EMME (%) - Vakum metodu ile (Water absorption % - Vacuum method)
1	0.17
2	0.15
3	0.18
4	0.25
5	0.19
<b>ORTALAMA AVERAGE</b>	<b>0.19</b>

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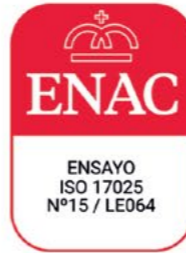




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Test report n°: 60.353  
Page n° : 2 / 3  
Petitioner: IMPERIO  
Date: 14/03/2023

TEST REPORT

DETERMINATION OF WATER ABSORPTION

PETITIONER: Pishgaman Memari Arya  
ADDRESS: No. 80, West Brazil St., South Sheykh Bahayi St., Molla Sadra St.,  
CITY: Tehran (IRAN)  
TEST REPORT N°: 60.353  
PAGE N°: 1 / 3  
DATE OF TEST REPORT: 14/03/2023  
DATE OF RECEIPT OF THE SAMPLE: 07/03/2023  
DATE OF TESTS PERFORMANCE: 07 – 09/03/2023  
NUMBER OF SAMPLES SUPPLIED: 5 specimens (20x20 cm)

DESCRIPTION OF THE SAMPLE: (Information provided by client)

Dry – pressed ceramic tiles, 600 mm x 1200 mm, glazed. Ref.:  
-- **NATURAL CONCRETE LIGHT GREY MATTE (FGM-R5200)** --

Code laboratory: 42-7-23

TEST CARRIED OUT:

- UNE-EN-ISO 10545-3 : DETERMINATION OF WATER ABSORPTION.
- ANNEX: PICTURE OF TESTED SAMPLE.

\*\*\*\*\*

DESCRIPTION OF THE SAMPLE.- (Information provided by client)

Dry – pressed ceramic tiles, 600 mm x 1200 mm, glazed. Ref.:  
-- **NATURAL CONCRETE LIGHT GREY MATTE (FGM-R5200)** --

Code laboratory: 42-7-23

RESULTS.- (Test performed after **UNE-EN-ISO 10545 Part 3:2018**)

- \* We have tested specimens of 200 mm x 200 mm, obtained by cutting.
- \* Water absorption for each specimen:

Specimen	Water absorption (E <sub>v</sub> ) (%)
1	0.2
2	0.2
3	0.2
4	0.3
5	0.2

\* Average water absorption of the sample: **0.2 %**

\* Measurement uncertainty: **U = ± 0.1 % (k=2)**

\* Average value uncertainty: **U = ± 0.1 % (k=2)**



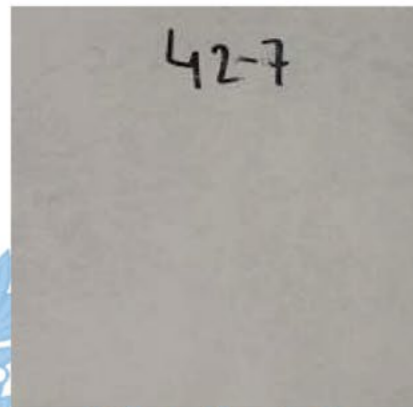
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Test report n°: 60.353  
 Page n° : 3 / 3  
 Petitioner: IMPERIO  
 Date: 14/03/2023

ANNEX: PICTURE OF TESTED SAMPLE



Colour and tone are only approximated

\*\*\*\*\*



José A. Estibález Catalán  
 MANAGER

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- The uncertainties have been evaluated according to recommendations of the document ISO/TAG5/WGE : June 95.
- The expanded uncertainties indicated in this report are based on a standard uncertainty multiplied by a coverage factor k=2 with a normal distribution provides a level of confidence of about 95 %.
- Laboratorio "Sebastian Carpi" guarantee the confidentiality of the content of the present report.



**SERAMİK ARAŞTIRMA MERKEZİ A.Ş.**  
**STANDART TEST LABORATUVARI**

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ETGB Anadolu Teknoparkı No:107-103 ESKİŞEHİR -  
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Mersis No: 0761048749700014  
Vergi Dairesi: Eskişehir Vergi Dairesi Başkanlığı Vergi No: 7610487497  
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**Rapor No: R 2066**  
Report Number

**DENEY RAPORU**  
Test report

**Müşterinin adı/adresi** : Pishgaman Memari Arya -- No. 80, West Brazil St.,  
Customer name and adress South Sheykh Bahayi St., Molla Sadra St., Tehran, IRAN

**İstek Numarası** : STL 22/2078  
Order no.

**Numunenin adı ve tarifi** : FGM-R5250 NATURAL CONCRETE ANTHRACITE MATTE  
Name and identity of test item ORIGINAL SIZE: 60X120

**Numunenin kabul tarihi** : 30.11.2022  
The date of receipt of test item

**Açıklamalar** : Numune alma işlemi firma yetkilileri tarafından yapılmıştır.  
Remarks (Sampling operation is performed by the company.)

**Testin yapıldığı tarih** : 30.11.2022 – 01.12.2022  
Date of test

**Raporun Sayfa Sayısı** : 2  
Number of pages of the report

**Deneysel ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve test metodları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.**  
The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

**Test sonuçları sadece testleri yapılan numunelere aittir. Testi yapılan numuneler saklanmamaktadır.**  
Test results only belong to samples analysed. Analysed samples are not be kept.

**Test sonuçları numunenin teslim alındığı hali için geçerlidir.**  
The test results are valid for the samples as received.



**Mühür**  
Date  
01.12.2022

**Test Sorumlusu**  
Person in charge of test  
Efkan KARA

**SAM Koordinatörü**  
SAM Coordinator  
Prof. Dr. Servet TURAN

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**STANDART TEST LABORATUVARI**  
Ceramic Research Center  
Standard Testing Laboratory

**Rapor No: R2066**  
Report Number

**DENEY RAPORU**  
Test Report

**İLGİLİ STANDART (Related Standard) : TS EN ISO 10545-3**

**TEST ADI: SERAMİK KAROLAR - SU EMME TAYİNİ (Vakum Metodu ile)**

**TEST NAME: CERAMIC TILES – DETERMINATION OF WATER ABSORPTION (Vacuum method)**

NUMUNE SAMPLE	SU EMME (%) - Vakum metodu ile (Water absorption % - Vacuum method)
1	0.24
2	0.16
3	0.23
4	0.26
5	0.18
<b>ORTALAMA AVERAGE</b>	<b>0.22</b>

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Modena, 04/01/23

To **Pishgaman Memari Arya**  
 NO 80  
 WEST BRAZIL ST  
 SOUTH SHEYKH BAHAYI ST  
 MOLLA SADRA ST TEHRAN IRAN

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
Ceramic tiles	FGM-R5250	Your delivery	22/12/2022

Here attached, you will receive the Test Report of Serial No. **20227490/n**, which shows the results of tests required.

**MODENA CENTRO PROVE**

MODENA CENTRO PROVE  
 Director  
 Sant'Unione dr. Giuseppe

**TEST REPORT: 20227490/1**

Modena, 04/01/23

<b>CUSTOMER</b>	<b>Pishgaman Memari Arya - - No. 80</b>
<b>MATERIAL and/o SAMPLE to be tested</b>	<b>West Brazil St - South Sheykh Bahayi St - Molla Sadra St - Tehran - IRAN</b>
<b>Denomination</b>	Ceramic tiles;
<b>Date of sample reception</b>	FGM-R5250;
<b>Date of sample acceptance</b>	22/12/2022;
<b>Kind of test executed</b>	22/12/2022;
<b>Referring standards</b>	Determination of Water Absorption
<b>Shifting from standards</b>	ISO 10545-3:2018
<b>Equipment</b>	No one
<b>Subcontracted phases</b>	Scales cod. MCP C148 - Tank for vacuum cod. MCP C128 - Forced ventilation stove cod. MCP C43
<b>Sampling made by</b>	No one
	Customer

*The test results reported in this Test Report refer only to the sample sampled by our staff and / or given by the Customer as received.*

*The sample identification data were provided by the customer. Further additional information provided by the Customer will be reported in the Test Report in blue color. If the information provided by the customer influences the validity of the results, MCP declines all responsibility.*

*Any changes / additions made to the Test Report after its first issue will be identified by underlining the text.*

*The Customer undertakes to reproduce this document in its entirety. Any form of partial reproduction is prohibited.*

*The storage times of the samples are indicated on the offer or contract to which this Test Report refers.*

Examiner  p.i. Bortolai Albertó	MODENA CENTRO PROVE  Ceramic Dept. Responsible P.I. De Pasquale Roberto	MODENA CENTRO PROVE  Director Sant'Unione dr. Giuseppe
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	<b>MODENA CENTRO PROVE s.r.l.</b> Sede legale e Laboratori: 41123 Modena (Italy) - Via Sallustio, 78 Tel. 059 822417 r.a. - Fax 059380281 - e-mail : <a href="mailto:info@modenacentroprove.it">info@modenacentroprove.it</a> - <a href="http://www.modenacentroprove.com">www.modenacentroprove.com</a> C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 C.F. e P. IVA n. 01592020364	 <small>LAB N°1018L</small> <small>Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC</small> <small>Signatory of EA, IAF and ILAC Mutual Recognition Agreements</small>
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**DETERMINATION OF WATER ABSORPTION**


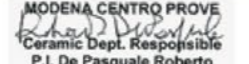

Beginning date : 30/12/2022

Analysis ending date : 02/01/2023

**RESULTS**

Tested specimen dimensions (cm): 20x20  
 N° specimens tested: 5

Sample n°	Water Absorption $E_v$ (%)
1	0,15%
2	0,21%
3	0,19%
4	0,18%
5	0,18%
<b>Average value</b>	<b>0,18%</b>

<b>Examiner</b>  p.i. Bortolai Alberto	MODENA CENTRO PROVE  Ceramic Dept. Responsible P.I. De Pasquale Roberto	MODENA CENTRO PROVE  Director Sant'Unione dr. Giuseppe
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Test report n°: 60.227  
Page n° : 2 / 3  
Petitioner: IMPERIO  
Date: 28/12/2022

TEST REPORT

PETITIONER: Pishgaman Memari Arya  
ADDRESS: No. 80, West Brazil St., South Sheykh Bahayi St., Molla Sadra St.  
CITY: Tehran (IRAN)  
TEST REPORT N°: 60.227  
PAGE N°: 1 / 3  
DATE OF TEST REPORT: 28/12/2022  
DATE OF RECEIPT OF THE SAMPLE: 23/12/2022  
DATE OF TESTS PERFORMANCE: 23 – 27/12/2022  
NUMBER OF SAMPLES SUPPLIED: 5 specimens (20x20 cm)

DESCRIPTION OF THE SAMPLE: (Information provided by client)

Dry – pressed ceramic tiles, 600 mm x 1200 mm, glazed. Ref.:

-- **NATURAL CONCRETE ANTHRACITE MATTE (FGM-R5250)** -- Code laboratory: 281-2-22

TEST CARRIED OUT:

- UNE-EN-ISO 10545-3 : DETERMINATION OF WATER ABSORPTION.  
- ANNEX: PICTURE OF TESTED SAMPLE.  
\*\*\*\*\*

DETERMINATION OF WATER ABSORPTION

DESCRIPTION OF THE SAMPLE,- (Information provided by client)

Dry – pressed ceramic tiles, 600 mm x 1200 mm, glazed. Ref.:

-- **NATURAL CONCRETE ANTHRACITE MATTE (FGM-R5250)** -- Code laboratory: 281-2-22

RESULTS,- (Test performed after **UNE-EN-ISO 10545 Part 3:2018**)

\* We have tested specimens of 200 mm x 200 mm, obtained by cutting.

\* Water absorption for each specimen:

Specimen	Water absorption (E <sub>v</sub> ) (%)
1	0.1
2	0.2
3	0.2
4	0.2
5	0.2

\* Average water absorption of the sample: **0.2 %**

\* Measurement uncertainty: **U = ± 0.1 % (k=2)**

\* Average value uncertainty: **U = ± 0.1 % (k=2)**



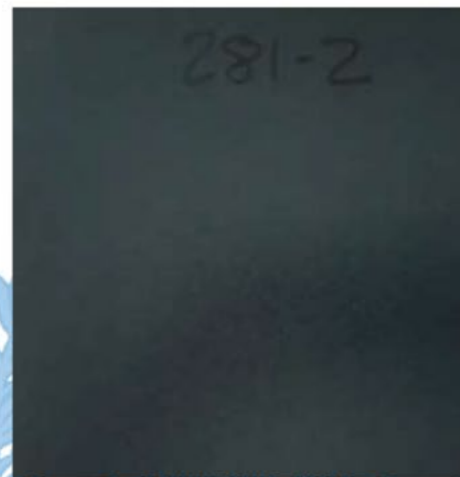
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Test report n°: 60.227  
 Page n° : 3 / 3  
 Petitioner: IMPERIO  
 Date: 28/12/2022

ANNEX: PICTURE OF TESTED SAMPLE



Colour and tone are only approximated

\*\*\*\*\*



José A. Estibález Catalán  
 MANAGER

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- The expanded uncertainties indicated in this report are based on a standard uncertainty multiplied by a coverage factor k=2 with a normal distribution provides a level of confidence of about 95 %.
- Laboratorio "Sebastian Carpi" guarantee the confidentiality of the content of the present report.





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Mühendislik Fakültesi ESKİŞEHİR  
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Vergi Dairesi: Eskişehir Vergi Dairesi Başkanlığı Vergi No: 7610487497  
Tel: 0 (222) 323 82 76 - 335 09 59 Faks: 0 (222) 322 29 43  
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**Rapor No: R 0582**  
Report Number

**DENEY RAPORU**  
Test report

**Müşterinin adı/adresi** : Pishgaman Memari Arya -- No. 80, West Brazil St.,  
Customer name and adress South Sheykh Bahayi St., Molla Sadra St., Tehran, IRAN

**İstek Numarası** : STL 23/650  
Order no.

**Numunenin adı ve tarifi** : CODE: FGM-A5015 NAME: CALACATTA SILVA NATURAL  
Name and identity of test item ORIGINAL SIZE: 120 cm. x 240 cm

**Numunenin kabul tarihi** : 28.02.2023  
The date of receipt of test item

**Açıklamalar** : Numune alma işlemi firma yetkilileri tarafından yapılmıştır.  
Remarks (Sampling operation is performed by the company.)

**Testin yapıldığı tarih** : 28.02.2023  
Date of test

**Raporun Sayfa Sayısı** : 2  
Number of pages of the report

**Deney ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve test metodları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.**  
The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

**Test sonuçları sadece testleri yapılan numunelere aittir. Testi yapılan numuneler saklanmamaktadır.**  
Test results only belong to samples analysed. Analysed samples are not be kept.

**Test sonuçları numunenin teslim alındığı hali için geçerlidir.**  
The test results are valid for the samples as received.



**Mühür** :  
Date  
01.03.2023

**Test Sorumlusu**  
Person in charge of test  
Özgür SAKA

**SAM Koordinatörü**  
SAM Coordinator  
Prof. Dr. Servet TURAN

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.  
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**STANDART TEST LABORATUVARI**

Ceramic Research Center  
Standard Testing Laboratory

**Rapor No: R 0582**  
Report Number

**DENEY RAPORU**  
Test Report

**İLGİLİ STANDART (Related Standard) : TS EN ISO 10545-7**  
**TEST ADI: SERAMİK KAROLAR- SIRLI KAROLAR-YÜZEY AŞINMASINA DAYANIM TAYİNİ**  
TEST NAME : CERAMIC TILES - DETERMINATION OF RESISTANCE TO SURFACE ABRASION-GLAZED TILES

UYGULANAN DEVİR SAYISI Revolution	BOZULMA GÖRÜLDÜ/GÖRÜLMEDİ Visibility of visual failure
100	<b>Görülmedi.</b> Not visible
150	<b>Görülmedi.</b> Not visible
600	<b>Görülmedi.</b> Not visible
750, 1500	<b>Görülmedi.</b> Not visible
2100, 6000, 12000	<b>Görüldü.</b> Visible
>12000	-

**Bozulmanın görüldüğü devir sayısı**  
Revolution at which visual failure occurred : 6000

**Numunenin sınıfı**  
Classification : 4

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.  
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Modena, 17/03/23

To **Pishgaman Memari Arya**  
 NO 80  
 WEST BRAZIL ST  
 SOUTH SHEYKH BAHAYI ST  
 MOLLA SADRA ST TEHRAN IRAN

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
Ceramic tiles	CALACATTA SILVA NATURAL FGM-A5015	Your delivery	07/03/2023

Here attached, you will receive the Test Report of Serial No. **20231375/n**, which shows the results of tests required.

**MODENA CENTRO PROVE**

MODENA CENTRO PROVE  
 Director  
 Sant'Unione dr. Giuseppe

**TEST REPORT: 20231375/1**

Modena, 17/03/23

**CUSTOMER**

**Pishgaman Memari Arya - - No. 80**  
**West Brazil St - South Sheykh Bahayi St - Molla Sadra St - Tehran - IRAN**

**MATERIAL and/o SAMPLE to be tested**

Ceramic tiles;

**Denomination**

CALACATTA SILVA NATURAL FGM-A5015;

**Date of sample reception**

07/03/2023;

**Date of sample acceptance**

07/03/2023;

**Kind of test executed**

Determination of the Resistance to Abrasion

**Referring standards**

ISO 10545-7:1996

**Shifting from standards**

No one

**Equipment**

Abrasion tester cod. MCP C127

**Subcontracted phases**

No one

**Sampling made by**

Customer

*The test results reported in this Test Report refer only to the sample sampled by our staff and / or given by the Customer as received.*

*The sample identification data were provided by the customer. Further additional information provided by the Customer will be reported in the Test Report in blue color. If the information provided by the customer influences the validity of the results, MCP declines all responsibility.*

*Any changes / additions made to the Test Report after its first issue will be identified by underlining the text.*

*The Customer undertakes to reproduce this document in its entirety. Any form of partial reproduction is prohibited.*

*The storage times of the samples are indicated on the offer or contract to which this Test Report refers.*

Examiner  p.l. Bortolai Alberto	MODENA CENTRO PROVE Ceramic Dept. Responsible  P.I. De Pasquale Roberto	MODENA CENTRO PROVE Director  Sant'Unione dr. Giuseppe
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**DETERMINATION OF THE RESISTANCE TO ABRASION**

Beginning date : 14/03/23

Analysis ending date : 15/03/23

**RESULTS**

Stage of abrasion with visible variation (n° revolutions): > 12000  
 Abrasion class: 5

**CLASSIFICATION**

**1. Classification PEI**

Abrasion Stage: abrasion visible at n° of turn	Class
100	0
150	1
600	2
750 - 1500	3
2100 – 6000 – 12000	4
>12000 and is in accordance with the stain resistance test UNI EN ISO 10545-14	5

**2. Stain Classification of Abraded Tiles**

Test Solution	Standing Time	Resistance Class
Chrome green in light oil 40%	24 h	5
Iodine alcohol solution 1.3%	24 h	5
Olive oil T.Q.	24 h	5

**3. Stain Classification**

- Class 1 : stain not removed
- Class 2 : stain removed with the procedure D (immersion 24h in special solvent)
- Class 3 : stain removed with the procedure C (mechanical action with strong cleaning agent)
- Class 4 : stain removed with the procedure B (weak cleaning agent)
- Class 5 : stain removed with the procedure A (running water, 5')



**SERAMİK ARAŞTIRMA MERKEZİ A.Ş.**  
**STANDART TEST LABORATUVARI**

Merkez: Anadolu Üniversitesi Yunussemre Kampüsü  
ETGB Anadolu Teknoparkı No:107-103 ESKİŞEHİR  
Şube: Eskişehir Teknik Üniversitesi İki Eylül Kampüsü  
Mühendislik Fakültesi ESKİŞEHİR  
Mersis No: 0761048749700014  
Vergi Dairesi: Eskişehir Vergi Dairesi Başkanlığı Vergi No: 7610487497  
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Web: www.seramikarastirma.com.tr E-posta: mail@seramikarastirma.com.tr

**Rapor No: R 0583**  
Report Number

**DENEY RAPORU**  
Test report

**Müşterinin adı/adresi** : Pishgaman Memari Arya - - No. 80, West Brazil St.,  
Customer name and adress South Sheykh Bahayi St., Molla Sadra St., Tehran, IRAN

**İstek Numarası** : STL 23/651  
Order no.

**Numunenin adı ve tarifi** : CODE: FGM-L5090 , NAME: NATURAL CONCRETE ASH SOFT MATTE  
Name and identity of test item ORIGINAL SIZE: 120 cm. x 280 cm

**Numunenin kabul tarihi** : 28.02.2023  
The date of receipt of test item

**Açıklamalar** : Numune alma işlemi firma yetkilileri tarafından yapılmıştır.  
Remarks (Sampling operation is performed by the company.)

**Testin yapıldığı tarih** : 01.03.2023  
Date of test

**Raporun Sayfa Sayısı** : 2  
Number of pages of the report

**Deneysel ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve test metodları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.**  
The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

**Test sonuçları sadece testleri yapılan numunelere aittir. Testi yapılan numuneler saklanmamaktadır.**  
Test results only belong to samples analysed. Analysed samples are not be kept.

**Test sonuçları numunenin teslim alındığı hali için geçerlidir.**  
The test results are valid for the samples as received.



**Mühür** :  
Date  
01.03.2023

**Test Sorumlusu**  
Person in charge of test  
Özgür SAKA

**SAM Koordinatörü**  
SAM Coordinator  
Prof. Dr. Servet TURAN

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.  
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**SERAMİK ARAŞTIRMA MERKEZİ A.Ş.**  
**STANDART TEST LABORATUVARI**

Ceramic Research Center  
Standard Testing Laboratory

**Rapor No: R 0583**  
Report Number

**DENEY RAPORU**  
Test Report

**İLGİLİ STANDART (Related Standard) : TS EN ISO 10545-11**  
**TEST ADI: SERAMİK KAROLAR - SIRIN ÇATLAMA DAYANIMI TAYİNİ**  
TEST NAME: CERAMIC TILES - DETERMINATION OF CRAZING RESISTANCE FOR GLAZED TILES

NUMUNE SAMPLE	NUMUNEDE ÇATLAMA (VAR/YOK) VISIBLE DEFECTS
1	YOK Not damaged.
2	YOK Not damaged.
3	YOK Not damaged.
4	YOK Not damaged.
5	YOK Not damaged.

**ÇATLAYAN TEST NUMUNESİ SAYISI**  
The number of test specimens showing crazing : -

**ÇATLAĞIN TARİFİ**  
A description of the crazing : -

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Projects

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	-	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
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C .	Years	Category	City
Central Administrative Building Of Shiraz City Train	1396	Administrative	Shiraz
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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
Fannavar 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
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Hisense	1400	Administrative	Tehran

I .	Years	Category	City
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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
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Jordan Commercial	1400		Tehran
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K .	Years	Category	City
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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
Kourosh Commercial & Recreation Center	1393	Commercial	Tehran

L .	Years	Category	City
Laleh	1400	Residential	Tehran
Lamkadeh Sofa Gallery	1393	Showroom	Tehran
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M .	Years	Category	City
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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
<b>N .</b>	<b>Years</b>	<b>Category</b>	<b>City</b>
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
<b>O .</b>	<b>Years</b>	<b>Category</b>	<b>City</b>
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Official Building Pharmacy Of Iran Hormun	1394	Administrative	Tehran
<b>P .</b>	<b>Years</b>	<b>Category</b>	<b>City</b>
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Pars Residence	1395	Residential	Kerman
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Penta Exhibition And Office Building	1398	Administrative	Parand
<b>Q .</b>	<b>Years</b>	<b>Category</b>	<b>City</b>
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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
<b>S .</b>	<b>Years</b>	<b>Category</b>	<b>City</b>
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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
<b>T .</b>	<b>Years</b>	<b>Category</b>	<b>City</b>
Taha Powish Drilling Company	1399	Administrative	Tehran
Tax Administrative	1400	Administrative	Tehran
Tax Office	1400	Administrative	Tehran
Toranj Tower	1395	Residential	Tehran
<b>U .</b>	<b>Years</b>	<b>Category</b>	<b>City</b>
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<b>W .</b>	<b>Years</b>	<b>Category</b>	<b>City</b>
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<b>Y .</b>	<b>Years</b>	<b>Category</b>	<b>City</b>
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