

# TECHLAM®

by LEVANTINA

A S T O R Y A B O U T L I F E S T Y L E

# \_index

TECHLAM®

<b>01.</b> What is TECHLAM®? <i>/ 02 - 04 /</i>	<b>07.</b> Advantages <i>/ 15 /</i>	<b>13.</b> How to work with TECHLAM® ? <i>/ 40 - 41 /</i>
<b>02.</b> Thicknesses <i>/ 05 /</i>	<b>08.</b> Green Attitude <i>/ 16 /</i>	<b>14.</b> Cutting <i>/ 42 - 45 /</i>
<b>03.</b> Production <i>/ 06 - 07 /</i>	<b>09.</b> Where do we install it? <i>/ 17 /</i>	<b>15.</b> Drilling <i>/ 46 - 48 /</i>
<b>04.</b> Attitude <i>/ 08 /</i>	<b>10.</b> Refurbishment <i>/ 18 /</i>	<b>16.</b> Installing <i>/ 49 - 76 /</i>
<b>05.</b> Think Big <i>/ 09 /</i>	<b>11.</b> Refurbishment projects <i>/ 19 - 20 /</i>	<b>17.</b> Accessories <i>/ 77 - 78 /</i>
<b>06.</b> Benefits <i>/ 10 - 14 /</i>	<b>12.</b> Collections <i>/ 21 - 39 /</i>	<b>18.</b> Latest Projects <i>/ 79 - 110 /</i>

---

## 01

---

# What is TECHLAM®?

---



---

# 01

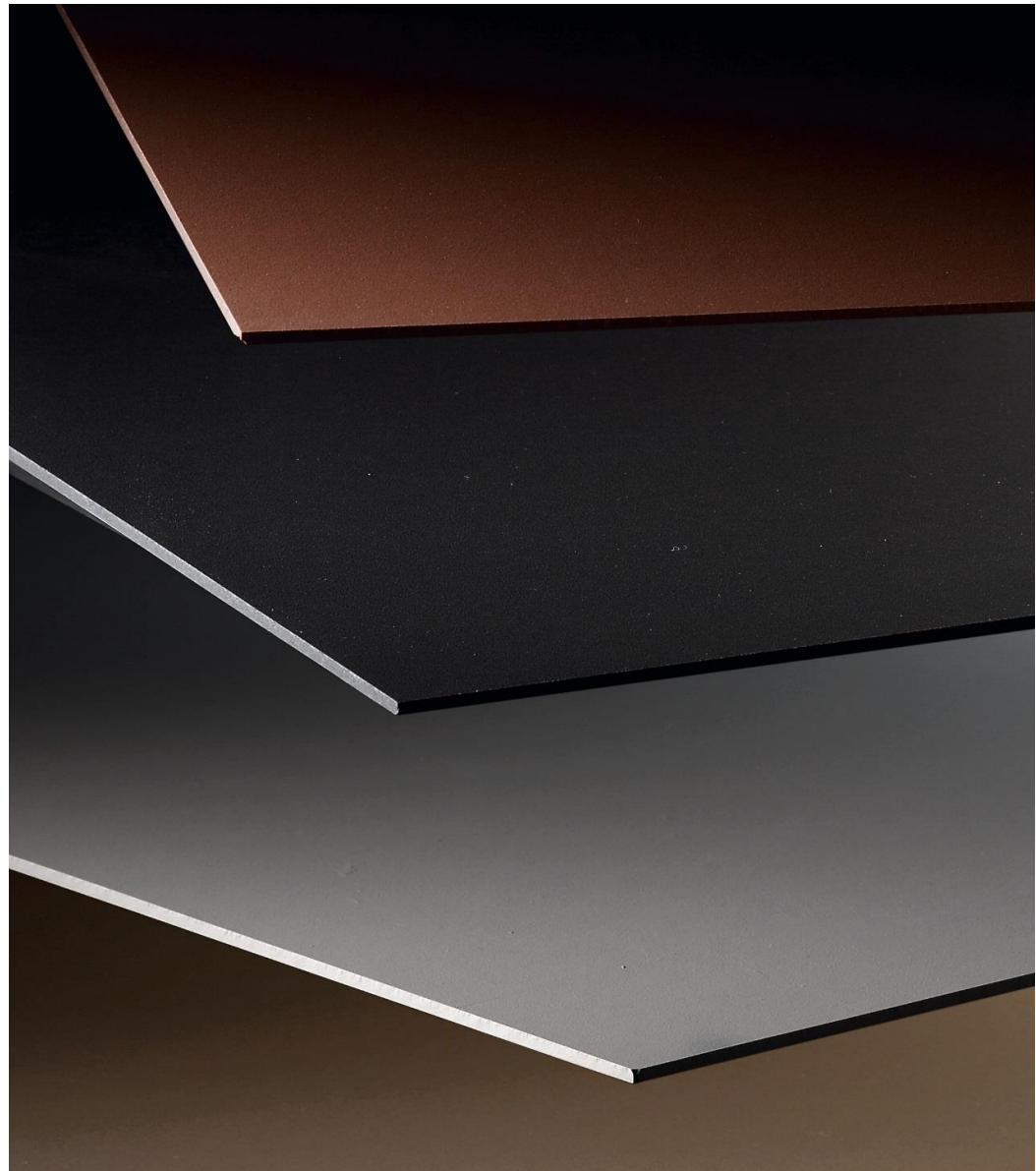
---

Laminated Ceramic

Slim Ceramic

$e = 3 \text{ mm}$  and  $5 \text{ mm}$   
thick

$p = 7.1 \text{ kg/m}^2$  and  $11.87 \text{ kg/m}^2$

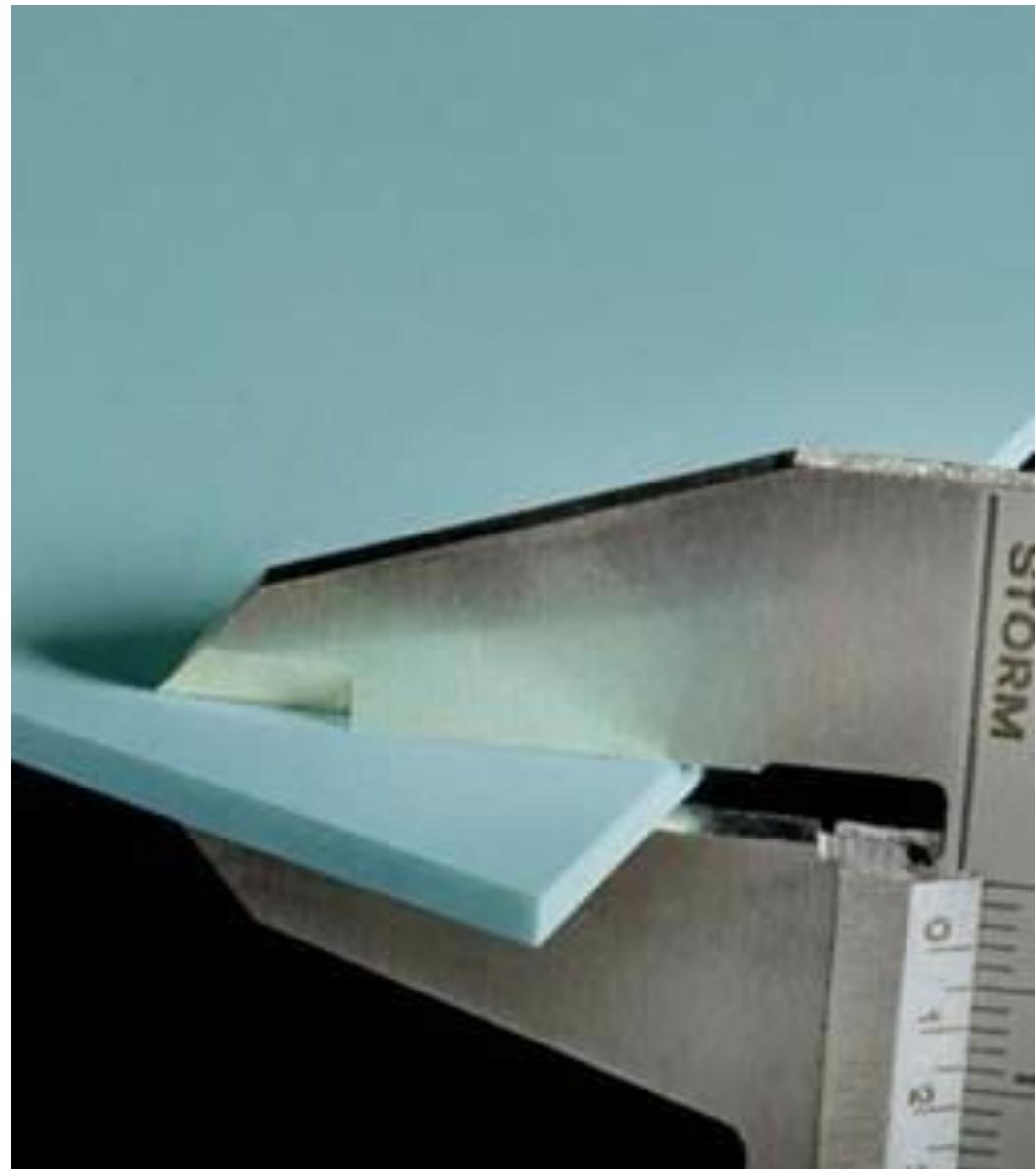


---

## 01

---

- It is a ceramic tile, manufactured in an unusual format, 3m x 1m and just 3mm thick.
- It weighs 7 kg per m<sup>2</sup> and can be cut-to-size. Thickness of 3mm or 5mm.
- It is the ideal product for architects and interior designers.



---

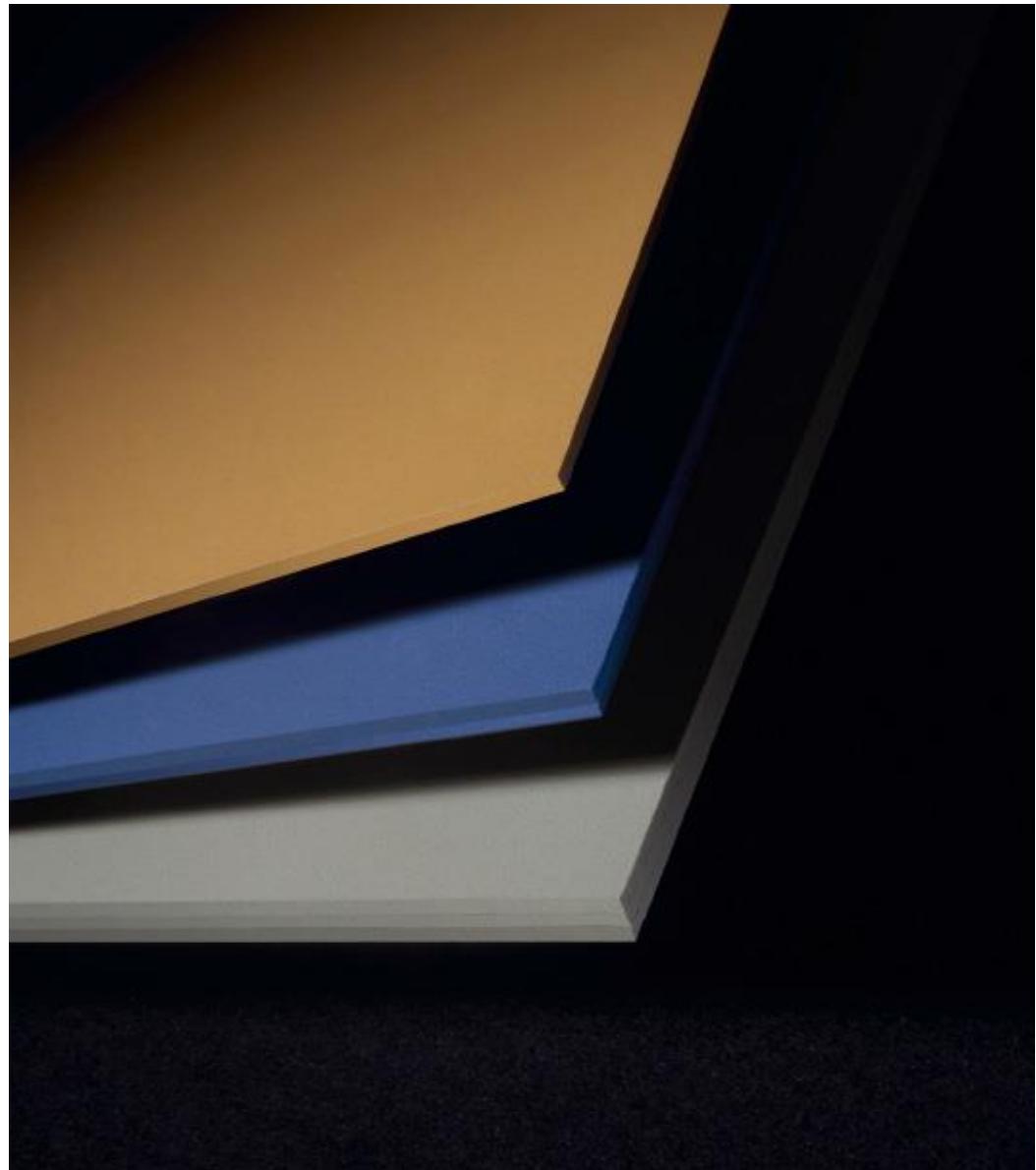
## 02

---

# Thicknesses

---

- 3 mm
- 3 mm + reinforcing
- 5 mm
- 5 mm + reinforcing
- 3+3 mm
- 5+5 mm



---

## 03

---

# Production

---

- It is fired in an oven for 50 minutes.
- It is then subjected to 380 BAR in a hydraulic piston press.
- The maximum temperature is 1200° C.



---

## 03

---

- Our production plant operates an electric kiln which drastically reduces dust, noise and emissions and creates a high quality working environment.



---

## 04

---

# Attitude

---

- It does not emit any noxious substances into the environment.
- We use electricity, a much more environmentally friendly energy, for the firing process.
- It can be recycled in other production processes.



---

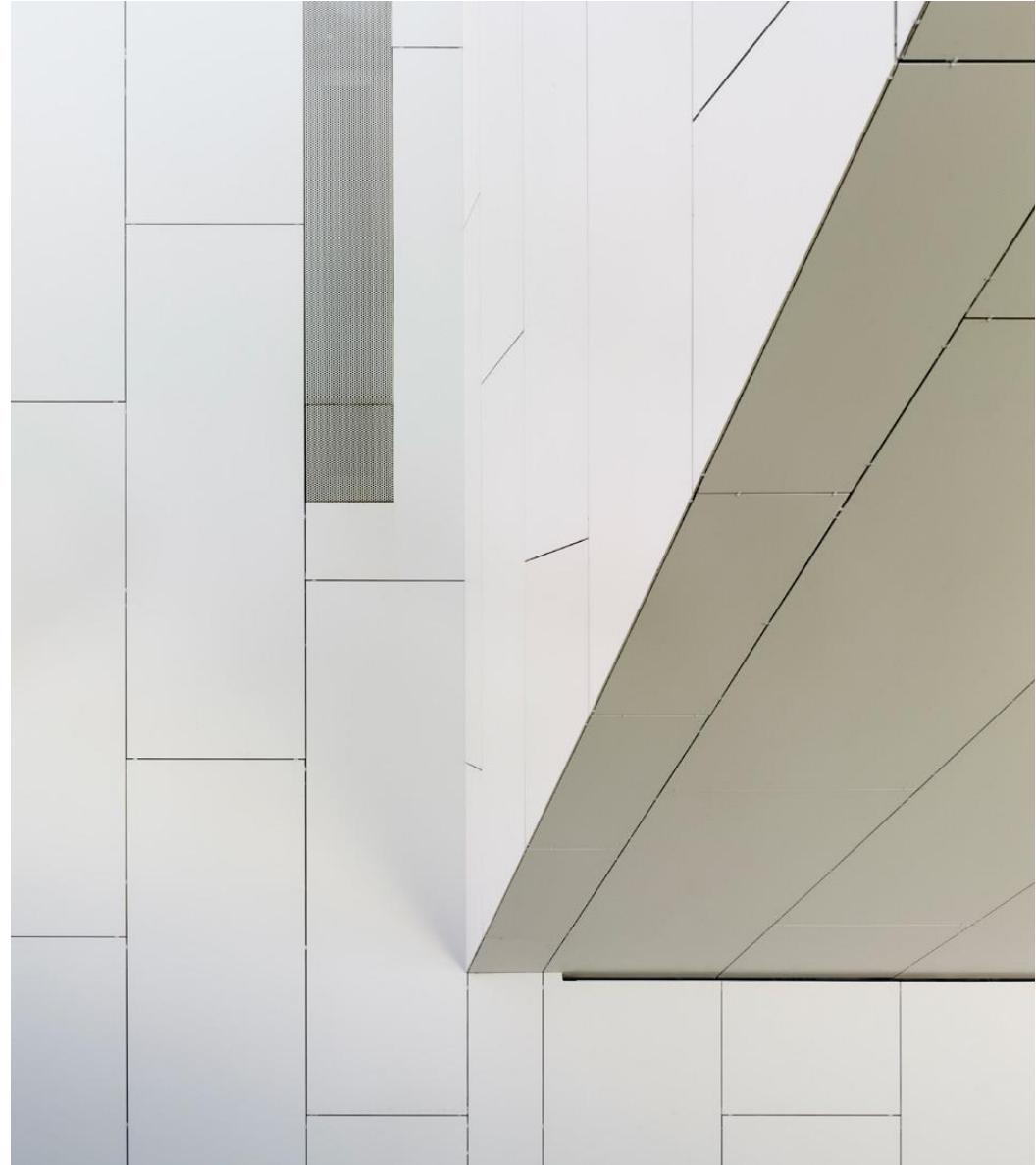
## 05

---

# Think Big

---

- There are fewer joins.
- TECHLAM® stops the proliferation of bacteria and is regularly installed in hospitals and schools, as it has passed all the necessary tests for use in those environments.



## 06

---

---

### Benefits

---

---

- Savings in transport costs: Each delivery can take more m<sup>2</sup>.
- Faster installation



---

## 06

---

- Resistant to wear, scratching and abrasion.
- It achieved 7 on the MOHS scale.

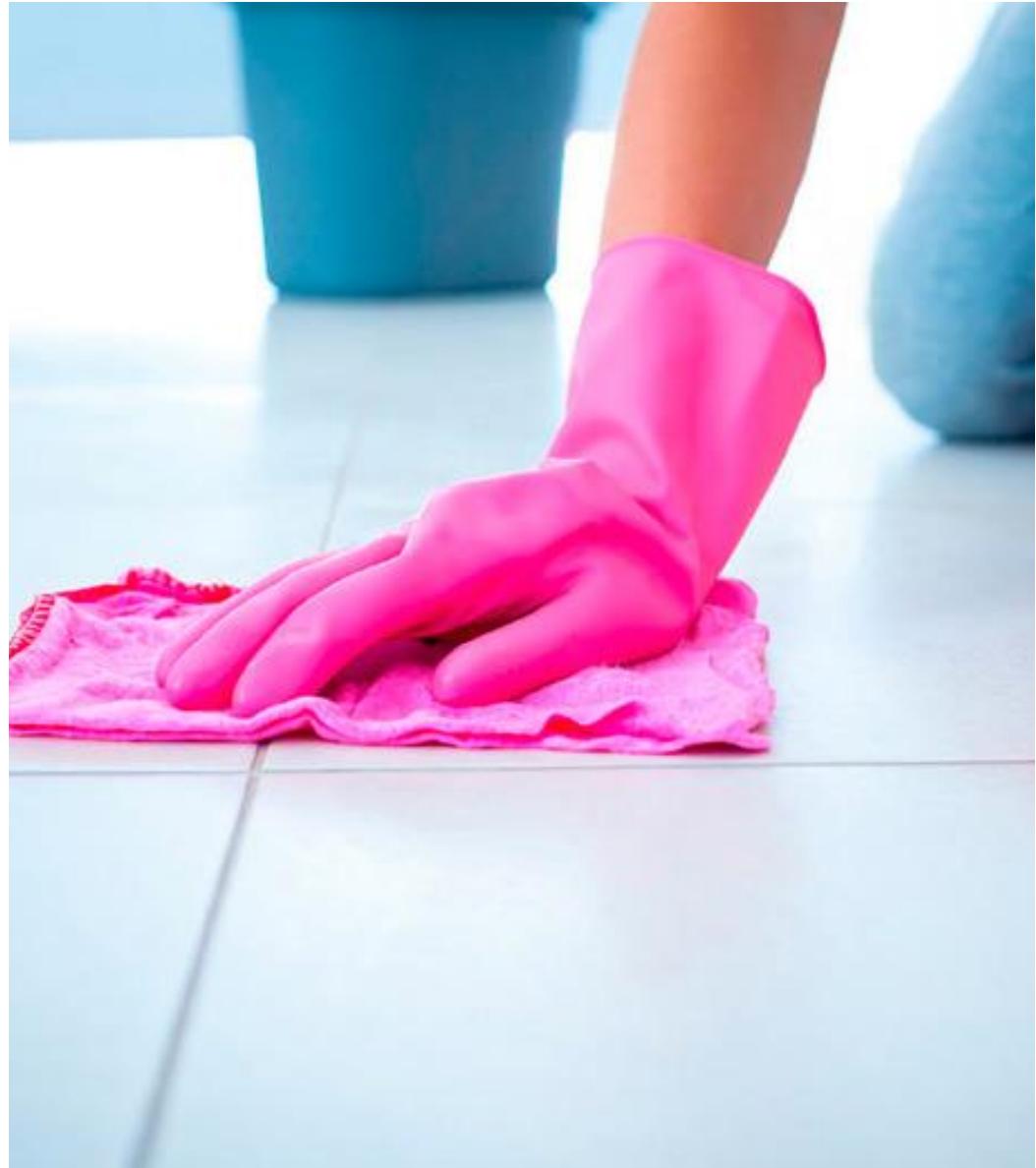


---

## 06

---

- Its surface is impermeable to liquids and other organic materials.
- It is also resistant to the side effects of the chemical products in disinfectants and detergents.
- No special care is required after installation.
- Standard cleaning products can be used to maintain TECHLAM® surfaces.



---

## 06

---

- It is resistant to UV Radiation.
- It is resistant to extreme cold and frost.



---

## 06

---

- It is manufactured at 1200° C, so is not affected by lower temperatures.
- TECHLAM® also has fireproof properties, which are fundamental to preventing fire spreading.
- Hot containers, such as oven trays, can be placed on TECHLAM®.



---

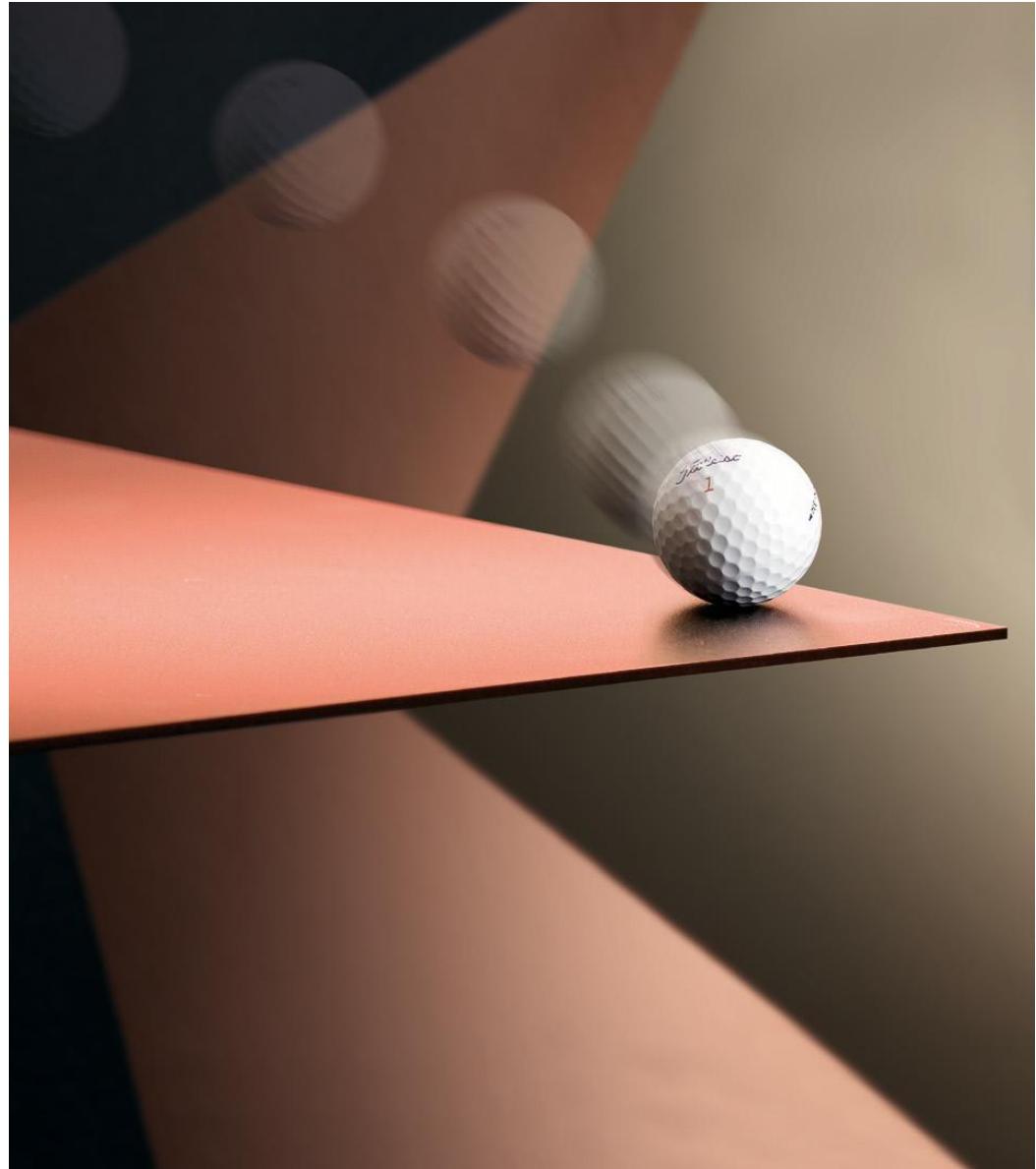
# 07

---

## Advantages

---

- Hardness.
- Breaking Strength.
- Hygienic surfaces.
- Fire Resistance.
- Waterproof Qualities.
- Chemical Product Resistance.
- Unalterable Colors.



## 08

# Green Attitude

- 0% substances given off into the surrounding environment.
- 0% used of organic and petroleum-based materials.
- Manufactured with electrical energy.
- It can be loaded up to 3000 sqm per lorry what means save energy and money.
- 100% Natural
- Using less energy per square meter than a conventional tile during the manufacturing process.



---

**09**

---

**Where do we  
install it ?**

---

It is used for covering:

- Interiors and exteriors.
- Floors and walls.



---

# 10

---

## Refurbishment

---

- Quick and Easy Placement.
- Without overloading the structure.



**11**

---

## Refurbishment Projects

---

- Increases architects' ability to express themselves.
- TECHLAM®, ideal for new build.



---

**11**

---



---

12

---

## Collections

---



---

## 01

---

### blaze collection

---

*An industrial spirit  
envelops this Blaze  
Collection with  
overwhelming force.  
A collection with  
cold, contrast-filled  
surfaces.*

---



## technical info

### Sizes

**1** 1000 x 3000 mm  
39,4" x 117"

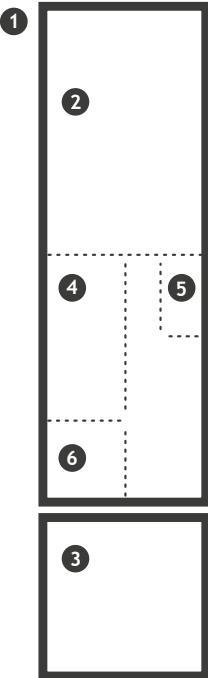
**2** 1500 x 1000 mm  
58,5" x 39,4"

**3** 1000 x 1000 mm  
39,4" x 39,4"

**4** 500 x 1000 mm  
19,7" x 39,4"

**5** 300 x 500 mm  
11,7" x 19,7"

**6** 500 x 500 mm  
19,7" x 19,7"



### Finishes

Natural

### Thickness

3 mm / 3+ mm / 3+3 mm  
5 mm / 5+ mm / 5+5 mm

---

## 02

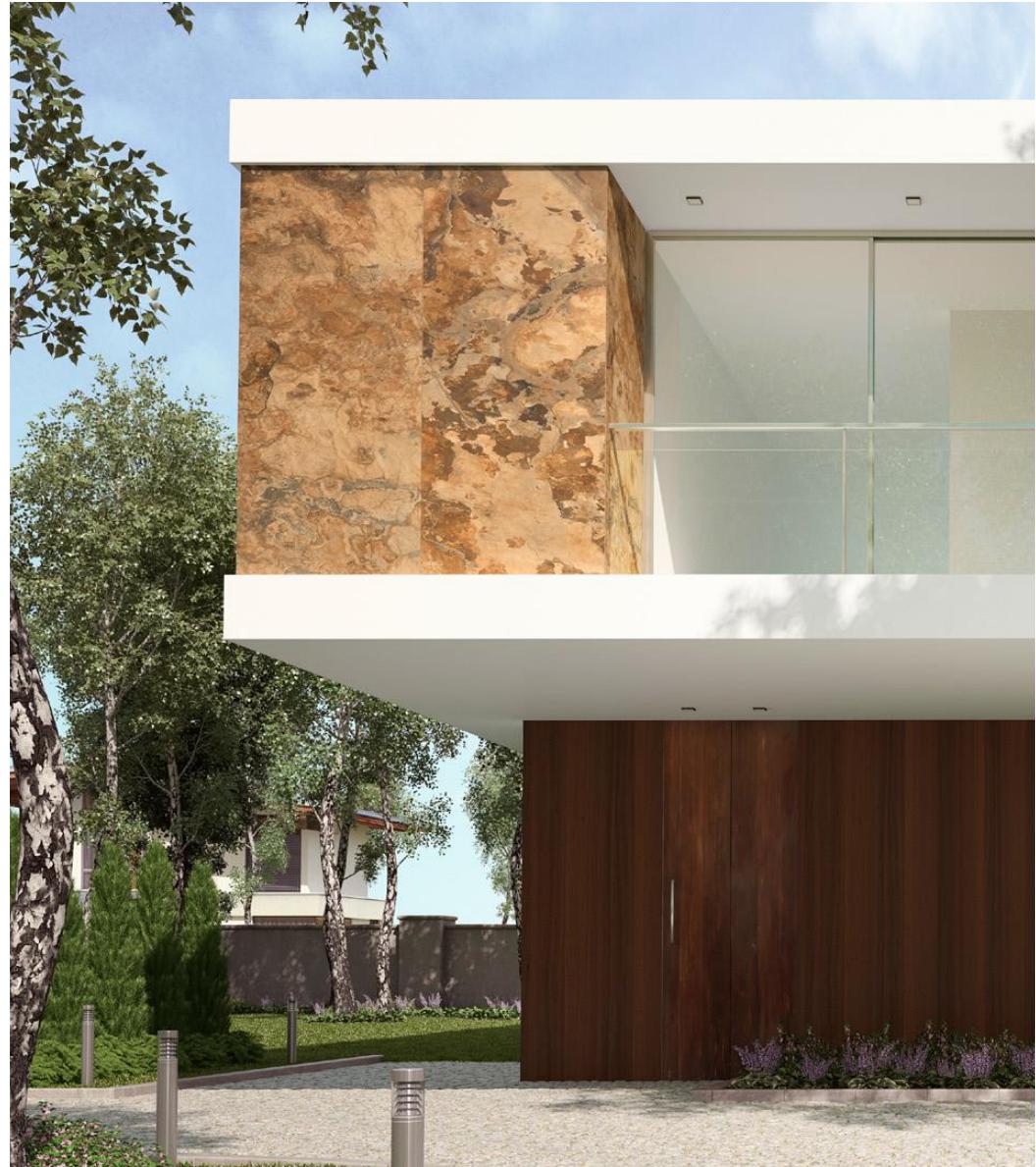
---

# slate collection

---

*For those who enjoy  
the nuances bestowed  
on us by nature, Slate  
Collection is  
admiration for one of  
the noblest materials:  
slate.*

---



# 25 - slate collection

## technical info

### Sizes

① 1000 x 3000 mm  
39,4" x 117"

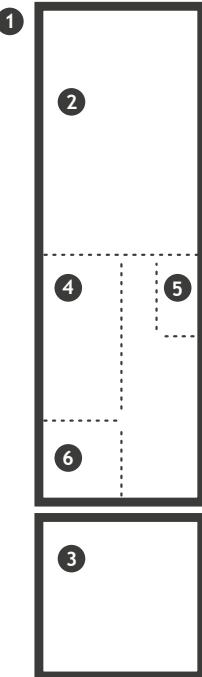
② 1500 x 1000 mm  
58,5" x 39,4"

③ 1000 x 1000 mm  
39,4" x 39,4"

④ 500 x 1000 mm  
19,7" x 39,4"

⑤ 300 x 500 mm  
11,7" x 19,7"

⑥ 500 x 500 mm  
19,7" x 19,7"



### Finishes

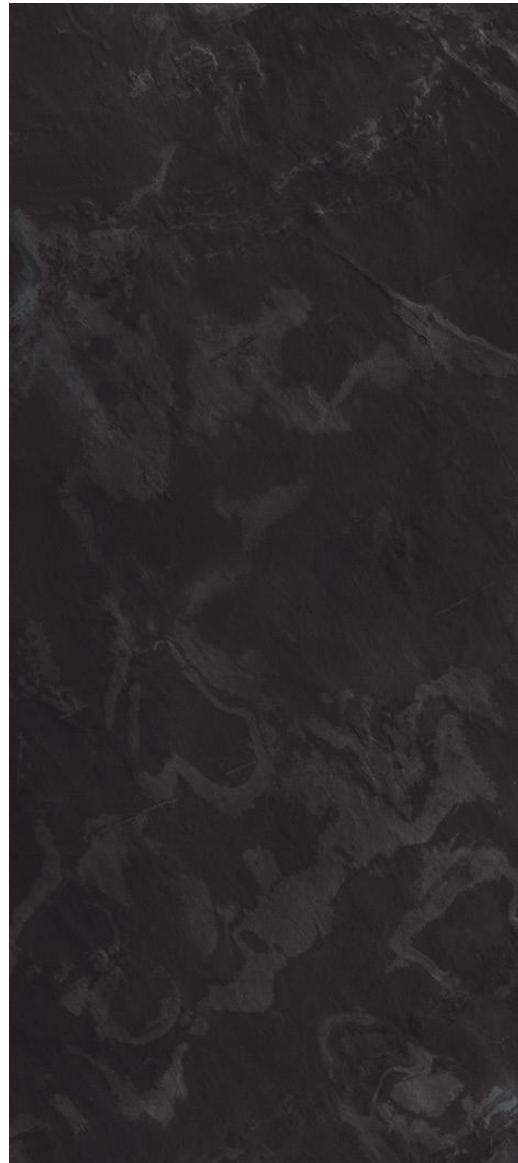
Natural

### Thickness

5 mm / 5+ mm



the collection Slate Autumn



the collection Slate Ebony

---

## 03

---

### stone collection

---

*The noblest beauty and elegance are reborn in Stone Collection, for those who enjoy breaking away from all classicism.*

---



## technical info

### Sizes

① 1000 x 3000 mm  
39,4" x 117"

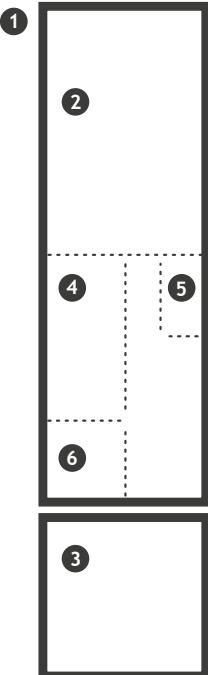
② 1500 x 1000 mm  
58,5" x 39,4"

③ 1000 x 1000 mm  
39,4" x 39,4"

④ 500 x 1000 mm  
19,7" x 39,4"

⑤ 300 x 500 mm  
11,7" x 19,7"

⑥ 500 x 500 mm  
19,7" x 19,7"



\*Only Kalos Bianco, Graphite Stone,  
Travertino Bari, Strattos and Quartzite Stone  
in 5 mm and 5+ mm.

### Finishes

Natural  
Bush hammered\*

### Thickness

3 mm / 3+ mm / 3+3 mm  
5 mm / 5+ mm / 5+5 mm



the collection Kalos Bianco



the collection Strattos



the collection Agatha Caramel



the collection Agatha Bianco



the collection Travertino Bari



the collection Quartzite Stone



the collection Graphite Stone



the collection Travertino Tivoli



the collection Magma

---

## 04

---

### wood collection

---

*For lovers of the most natural finishes, with Wood Collection you will be transported to the remotest and most tranquil places on the planet.*

---



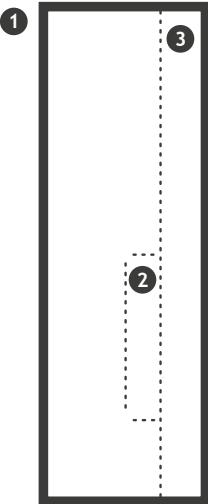
## technical info

### Sizes

① 1000 x 3000 mm  
39,4" x 117"

② 200 x 1000 mm  
7,9" x 39,4"

③ 250 x 3000 mm  
9,8" x 117"



the collection Wood Aspen



the collection Wood Maple



the collection Wood Oak



the collection Wood Scrape



the collection Wood Ash



the collection Wood Walnut

---

**05**

---

## steel collection

---

*For those who love  
discovering new  
sensations, Steel is the  
coldest and most  
masculine portion of  
TECHLAM® Collection.*

---



## technical info

### Sizes

① 1000 x 3000 mm  
39,4" x 117"

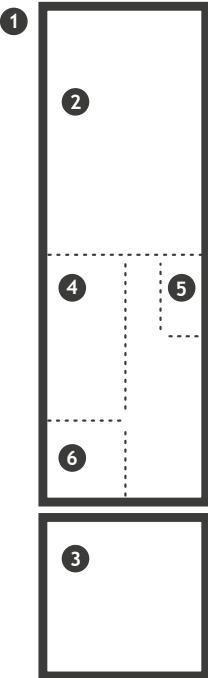
② 1500 x 1000 mm  
58,5" x 39,4"

③ 1000 x 1000 mm  
39,4" x 39,4"

④ 500 x 1000 mm  
19,7" x 39,4"

⑤ 300 x 500 mm  
11,7" x 19,7"

⑥ 500 x 500 mm  
19,7" x 19,7"



### Finishes

Natural

### Thickness

3 mm / 3+ mm / 3+3 mm  
5 mm / 5+ mm / 5+5 mm



the collection Steel White



the collection Steel Corten



the collection Steel Dark

---

# 06

---

## deco collection

---

*Perfect combinations  
for lovers of trends and  
explorers of colours  
and textures. A range  
with a personality of  
its own.*

---



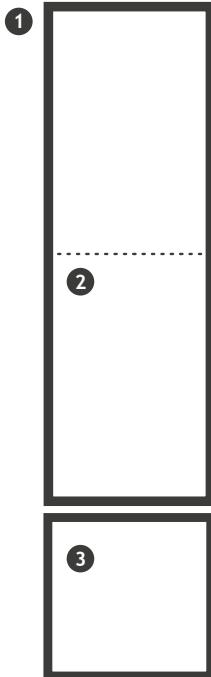
## technical info

### Sizes

① 1000 x 3000 mm  
39,4" x 117"

② 1500 x 1000 mm  
58,5" x 39,4"

③ 1000 x 1000 mm  
39,4" x 39,4"



\* Only Vintage, Colonial & Silk.

\*\* Only Silk in 5 mm and 5+ mm.

\*\*\* Only Zahir Perle.

### Finishes

Satin - Natural  
Bush hammered\*\* - Matt\*\*\*

### Thickness

3 mm / 3+ mm  
5 mm / 5+ mm



the collection Leather White



the collection Silk



the collection Zahir Perle



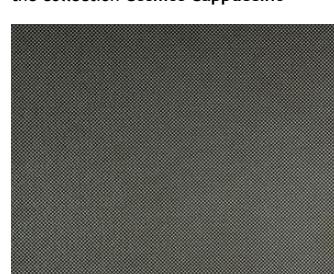
the collection Village



the collection Colonial



the collection Cosmos Cappuccino



the collection Cosmos Black

---

**07**

---

## vulcano collection

---

*For discreet evokers  
attracted by elements  
with character, where  
an aesthetic is created*

*far from the light.*

---



# 35 - vulcano collection

## technical info

### Sizes

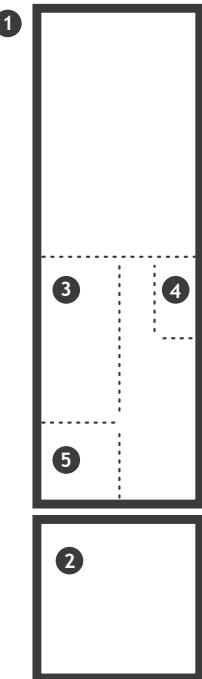
① 1000 x 3000 mm  
39,4" x 117"

② 1000 x 1000 mm  
39,4" x 39,4"

③ 500 x 1000 mm  
19,7" x 39,4"

④ 300 x 500 mm  
11,7" x 19,7"

⑤ 500 x 500 mm  
19,7" x 19,7"



### Finishes

Satin

### Thickness

3 mm / 3+ mm / 3+3 mm  
5 mm / 5+ mm / 5+5 mm



the collection Vulcano Concrete

the collection Vulcano Ceniza

the collection Vulcano Roca

---

# 08

---

## hydra collection

---

*Harmony and serenity  
for those who enjoy  
contemporary spaces  
with a peaceful  
atmosphere.*

---



### technical info

#### Sizes

① 1000 x 3000 mm  
39,4" x 117"

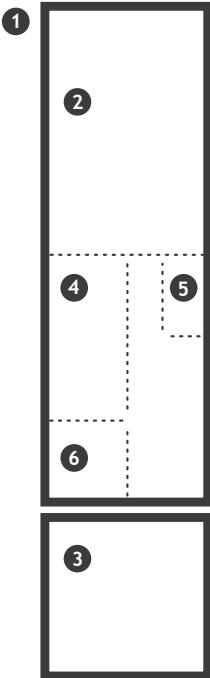
② 1500 x 1000 mm  
58,5" x 39,4"

③ 1000 x 1000 mm  
39,4" x 39,4"

④ 500 x 1000 mm  
19,7" x 39,4"

⑤ 300 x 500 mm  
11,7" x 19,7"

⑥ 500 x 500 mm  
19,7" x 19,7"



#### Finishes

Satin

#### Thickness

3 mm / 3+ mm / 3+3 mm  
5 mm / 5+ mm / 5+5 mm



the collection Hydra Beige

the collection Hydra Moka

the collection Hydra Plomo



the collection Hydra Wengue



the collection Hydra Argen

---

## 09

---

### basic collection

---

*For those who are passionate about colour and creativity, light-filled sensations and contrasts. Basic will captivate all your senses.*

---



## technical info

### Sizes

**1** 1000 x 3000 mm  
39,4" x 117"

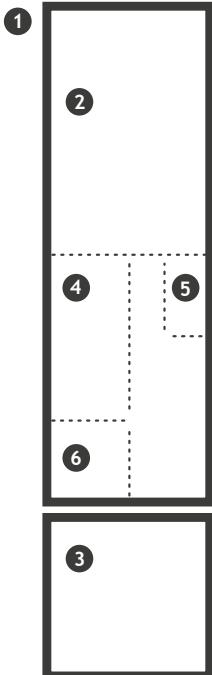
**2** 1500 x 1000 mm  
58,5" x 39,4"

**3** 1000 x 1000 mm  
39,4" x 39,4"

**4** 500 x 1000 mm  
19,7" x 39,4"

**5** 300 x 500 mm  
11,7" x 19,7"

**6** 500 x 500 mm  
19,7" x 19,7"



the collection Basic Ice

the collection Basic Neu

the collection Basic Bone

the collection Basic Cappuccino

the collection Basic Tardor

the collection Basic Blau

the collection Basic Antracita

the collection Basic Black

the collection Basic Cendra

### Finishes

Satin

### Thickness

3 mm / 3+ mm / 3+3 mm  
5 mm / 5+ mm / 5+5 mm

---

**13**

---

## How to work With TECHLAM® ?

---



---

**13**

---



The 3x1 m Techlam slabs must be removed from their box by two people situated in parallel .



Before resting the ceramic slab on the floor, position each of the protectors.



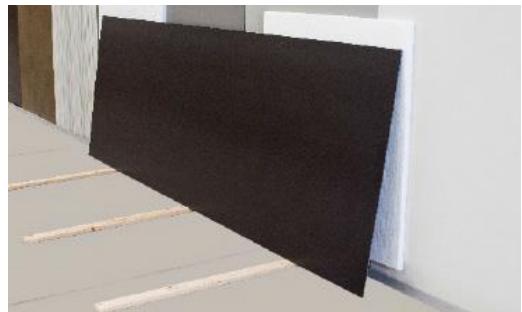
Hold the ceramic slab with both hands and raise it slowly. Do this at the same time as your workmate.



Spread your arms to occupy a larger surface and slowly rest the ceramic slab on the floor.



When the ceramic slab is in a vertical position lift it, keeping it always upright.



Position protectors when the ceramic slab is resting on any surface.

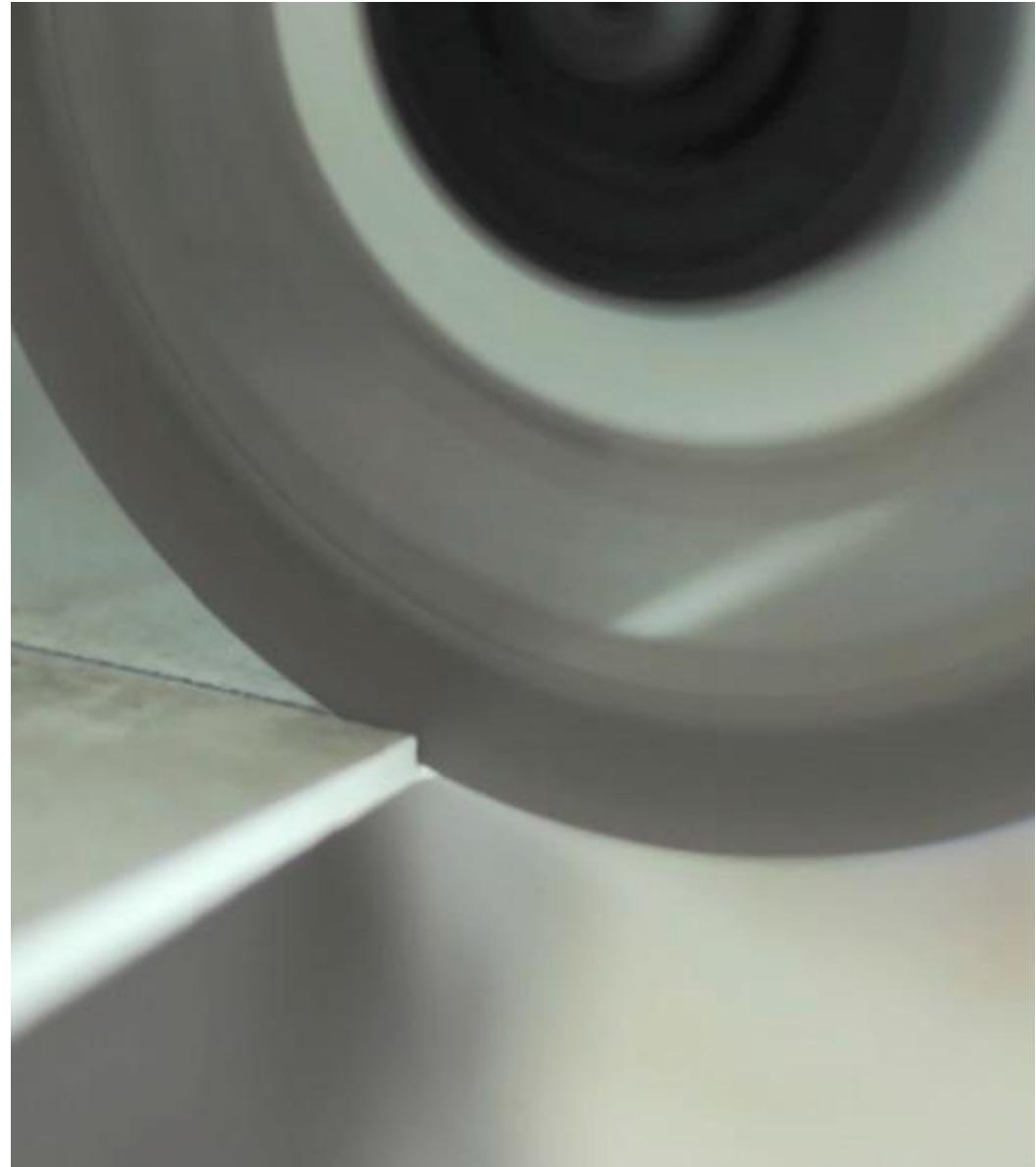
---

**14**

---

## Cutting

---



---

14

---



Cutting with a Ruby Cutter



Glass cutter with Bohle  
Silberschnitt 2004.0



Cutting with a Ø125  
ceramic disk

	3	3+	5	5 +	3+3	5+5
Ruby Cutter	Yes	Yes	Yes	Yes	No	No
Glass Cutter	Yes	Yes	Yes	Yes	No	No
Ceramic Disk	Yes	Yes	Yes	Yes	Yes	Yes
Waterjet	Yes	Yes	Yes	Yes	Yes	Yes

---

## 14

---

### BEVELLING THE CUTS

- After cutting the edge of the sheet can be bevelled with an angle grinder and sandpaper until the desired bevel is achieved.



---

## 14

---

### CUTTING MORTISES

TECHLAM® can be cut with a 125mm angle grinder and a ceramic disk.



---

**15**

---

## Drilling

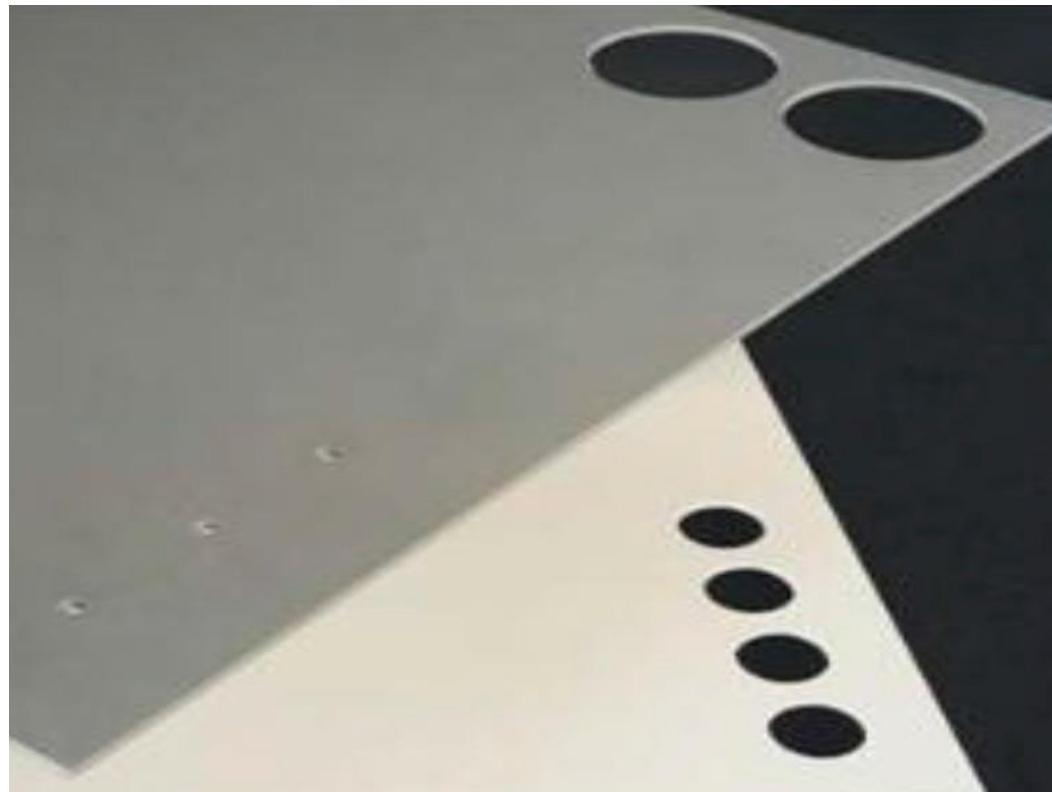
---



---

15

---



	3	3+	5	5+	3+3	5+5
Diamond Crowns	si	si	si	si	si	si
Glass Cutter	si	si	si	si	no	no
Glass Cutter	si	si	si	si	si	si

---

## 15

---

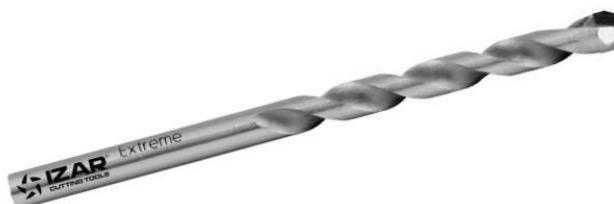
Drilling holes for electric  
sockets and taps



Non-hammer action  
diamond drills.  
Various diameters.  
Need to cool the cut.



Widia bits for the angle  
grinder.  
35mm Diameter.  
Dry-cutting.



Drill bits for ceramic tiles.  
Small diameters.  
Cooling while cutting.

---

**16**

---

## Installing

---



---

## 16

---

### 1. APPROPRIATE TOOLS

- Notched trowel.
- Rubber spatula.
- Suction pads.
- Tile spacers.
- Rubber trowel for grouting.



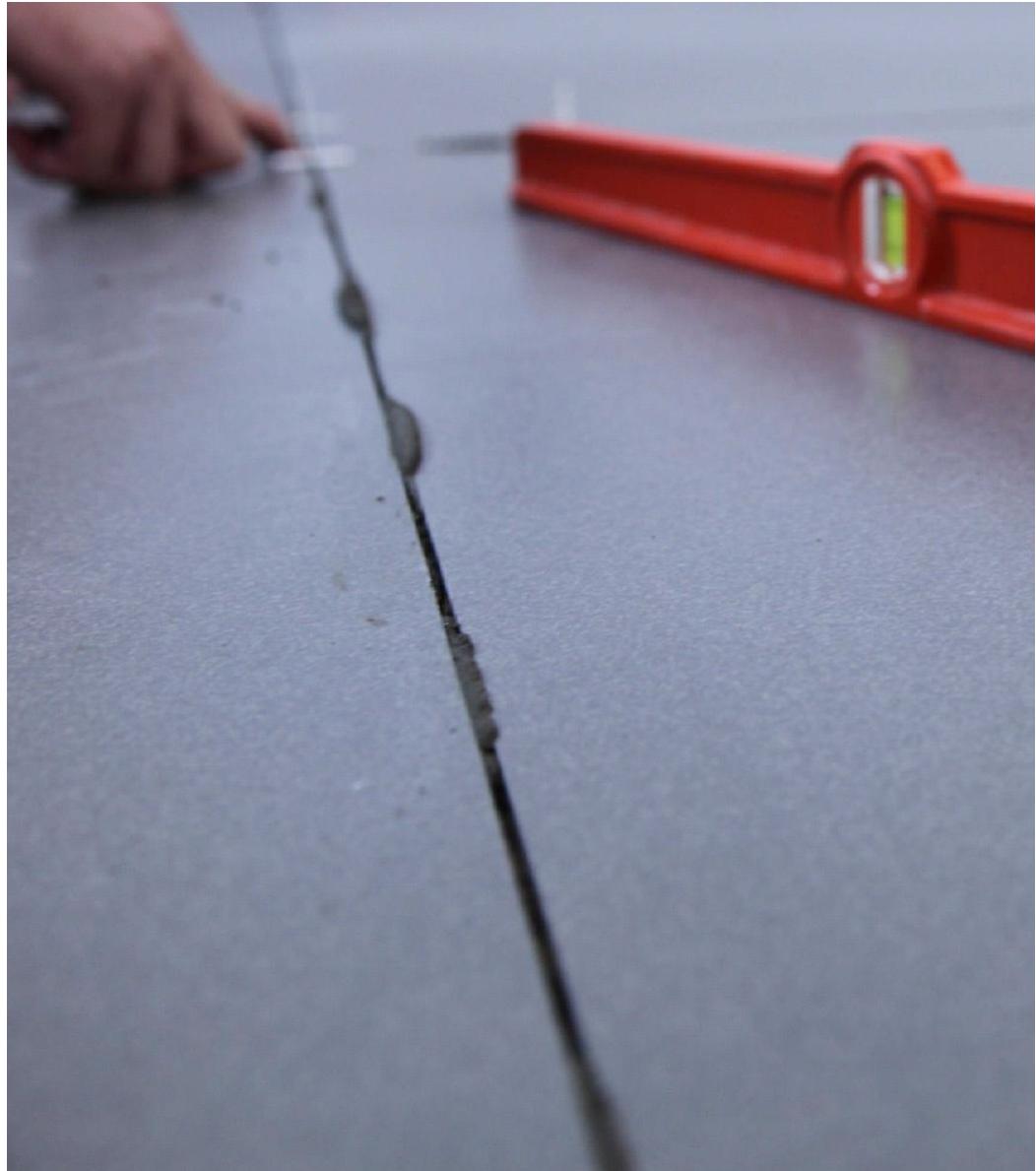
---

## 16

---

### 2. PERFECTLY LEVEL BASE

- A perfectly level base (wall or floor).
- Use self-levelling products if necessary.  
Water-proof damp areas before starting tiling.
- A difference in the thickness of the adhesive causes tensions in the surface of the ceramic sheet, and creates tile edges.



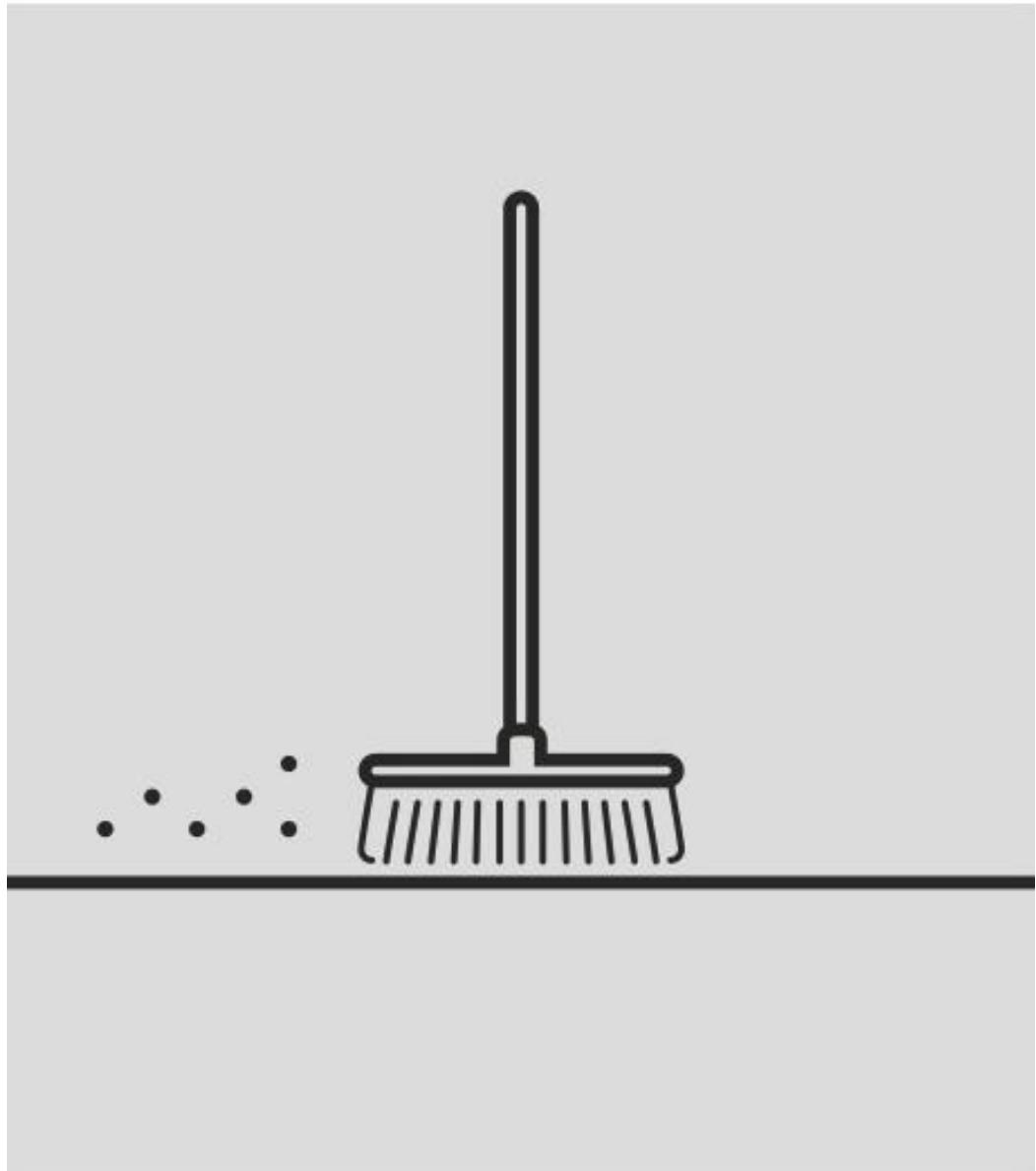
---

## 16

---

**3. THE SURFACE TO BE COVERED  
MUST BE  
COMPLETELY CLEAN**

- The surface to be covered must be completely clean of dust or any other substance which may impede the adhesion of TECHLAM®.
- Better adhesion of the adhesive material to the base.



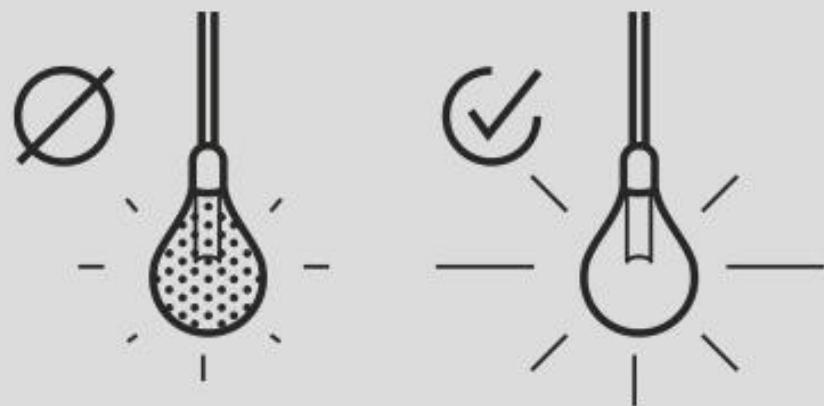
---

# 16

---

## 4. Appropriate working light

- Appropriate light to detect any defects.
- We avoid the appearance of tile edges.



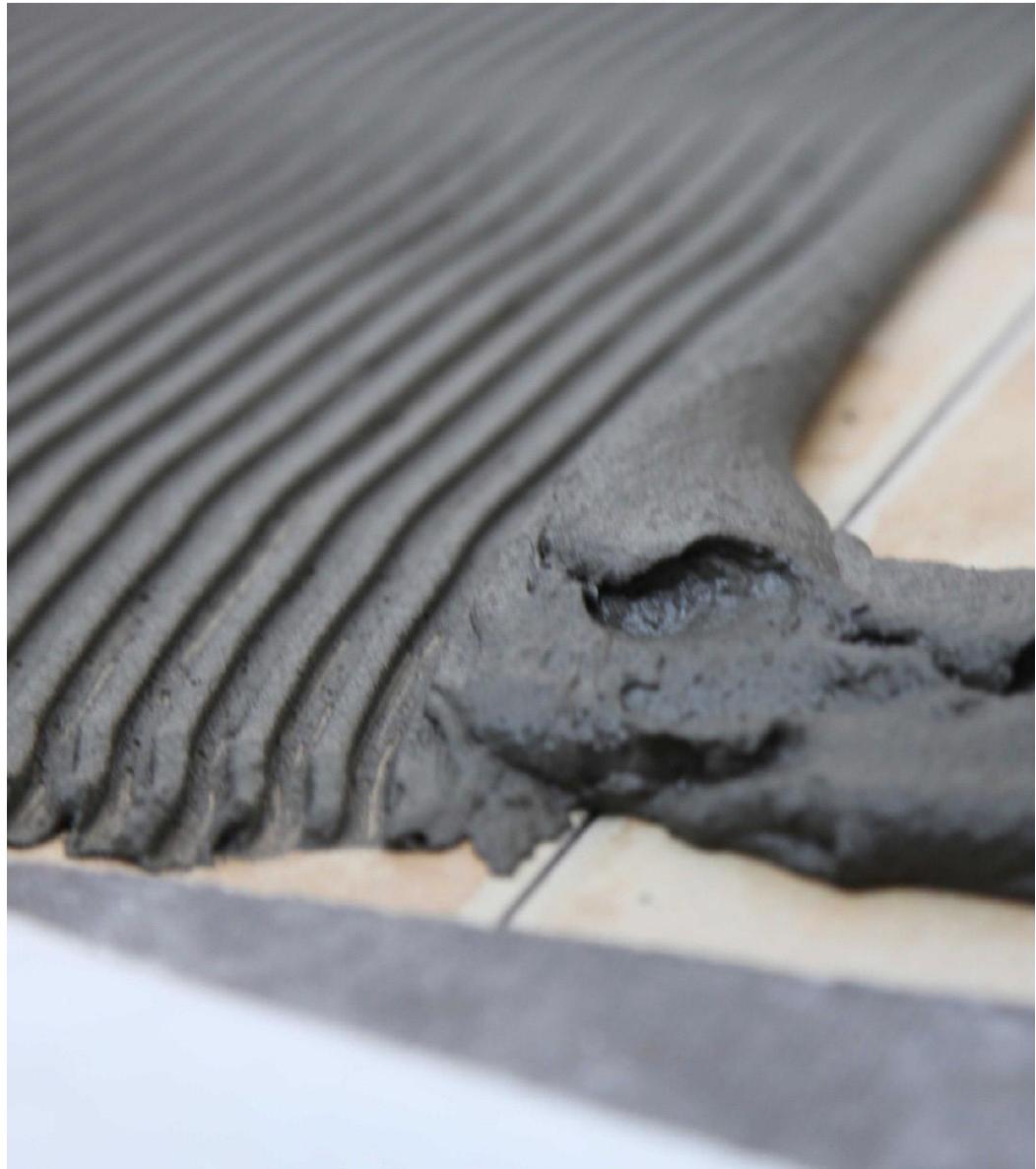
---

# 16

---

## 5A. CHOICE OF ADHESIVE TYPE

- Properties of the base to be covered (brick, wood, plaster, metal).
- Properties of the ceramic material chosen, with or without glass fibre.
- Format of the TECHLAM® tiles.
- Final use.



---

# 16

---

## 5B. Choice of adhesive type WITHOUT GLASS FIBRE

C = Cement adhesive

2 = Improved adhesive with mixed  
binders

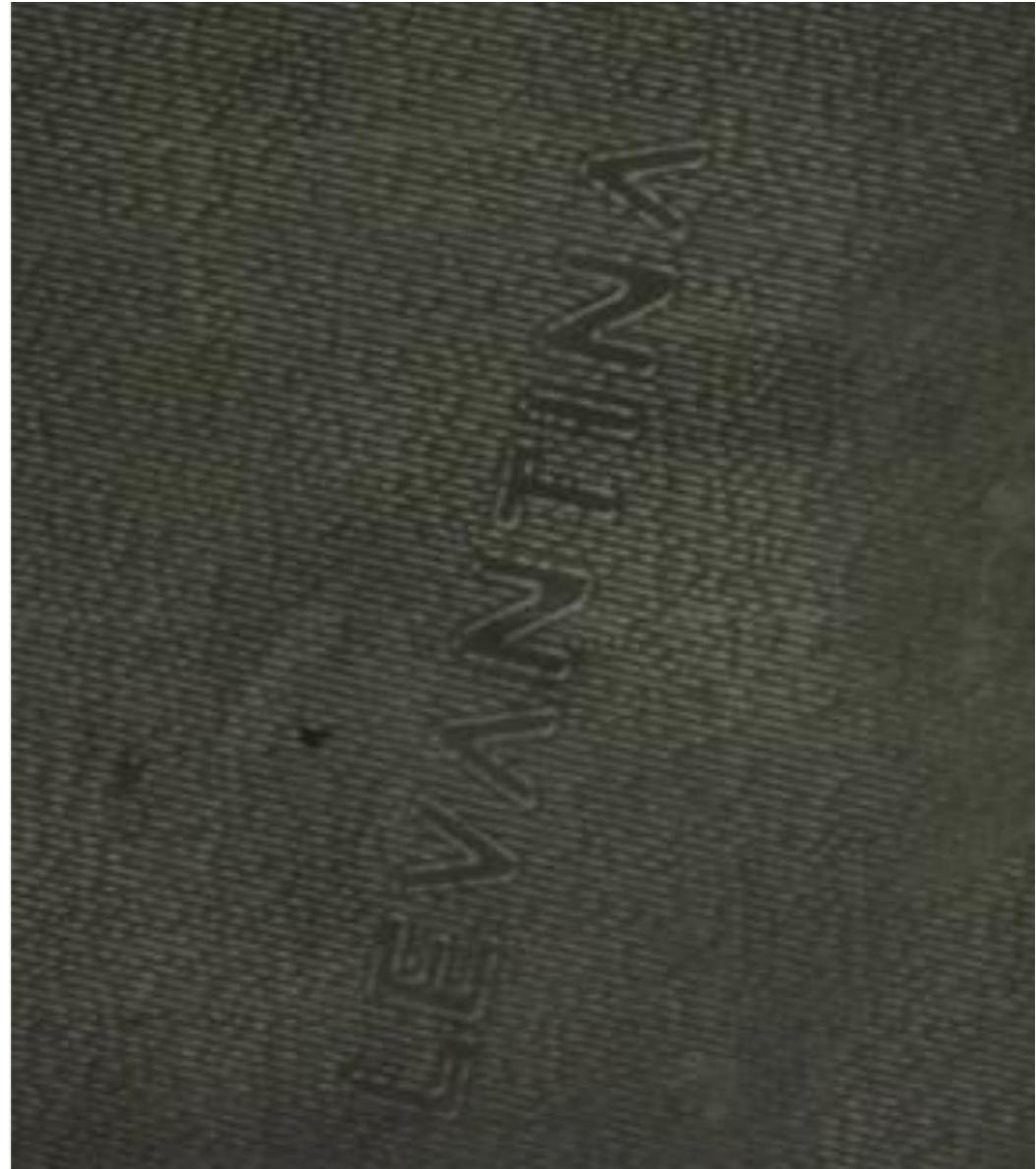
T = Low slip adhesive

E = Slow-drying adhesive

S1 = Deformable

S2 = High deformability

<b>EXTERIOR</b>
C2 ES2
<b>INTERIOR</b>
C2 TE S1



---

# 16

---

## 5B. Choice of adhesive type WITH GLASS FIBRE

C = Cement adhesive

2 = Improved adhesive with mixed binders

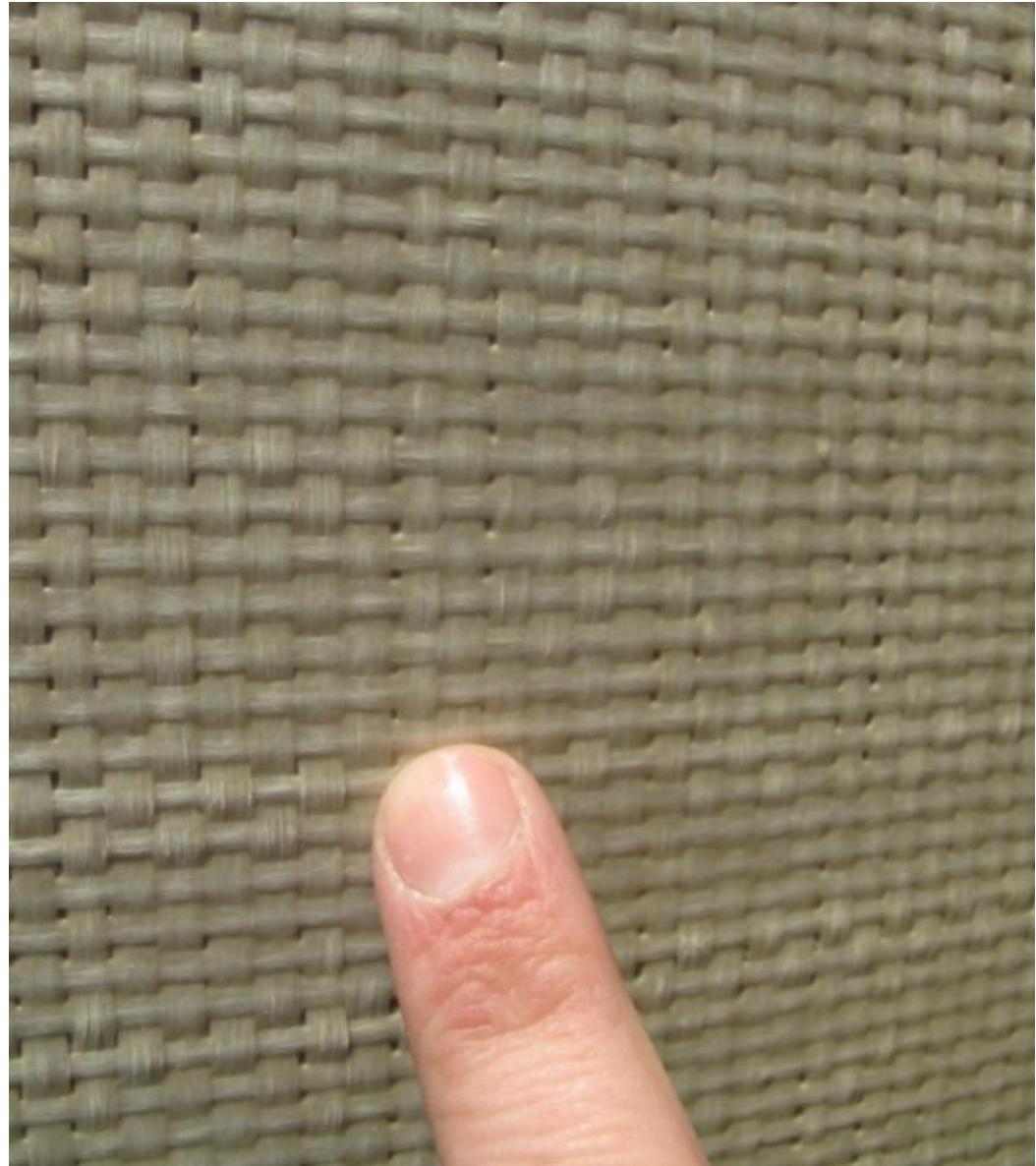
T = Low slip adhesive

E = Slow-drying adhesive

S2 = High deformability

R= Resin adhesive (polyurethane)

EXTERIOR
Normal R2T /C2FTS2 Fast
INTERIOR
C2TES2



---

## 16

---

### 6. USING A THIN LAYER OF FLEXIBLE ADHESIVE

- Double surface gluing.
- Applying the adhesive to the surface the tile is to be applied to.
- Applying the adhesive to the ceramic tile.
- Special attention to be paid to covering the corners.



---

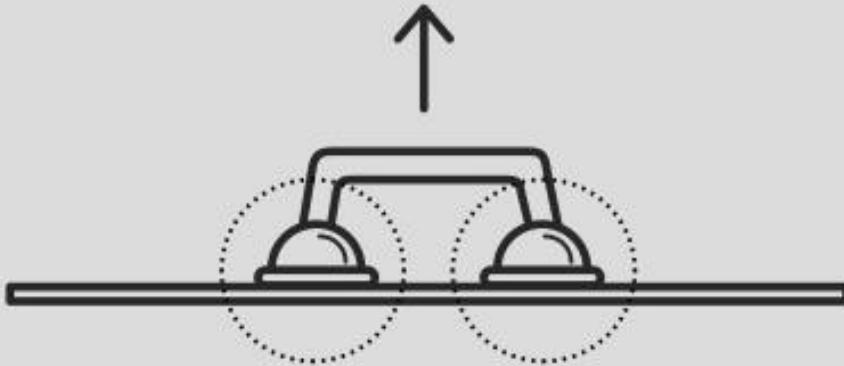
# 16

---

## 7. CAREFUL HANDLING

We therefore avoid:

- Chipping.
- Flaking.
- Marks on the surface.



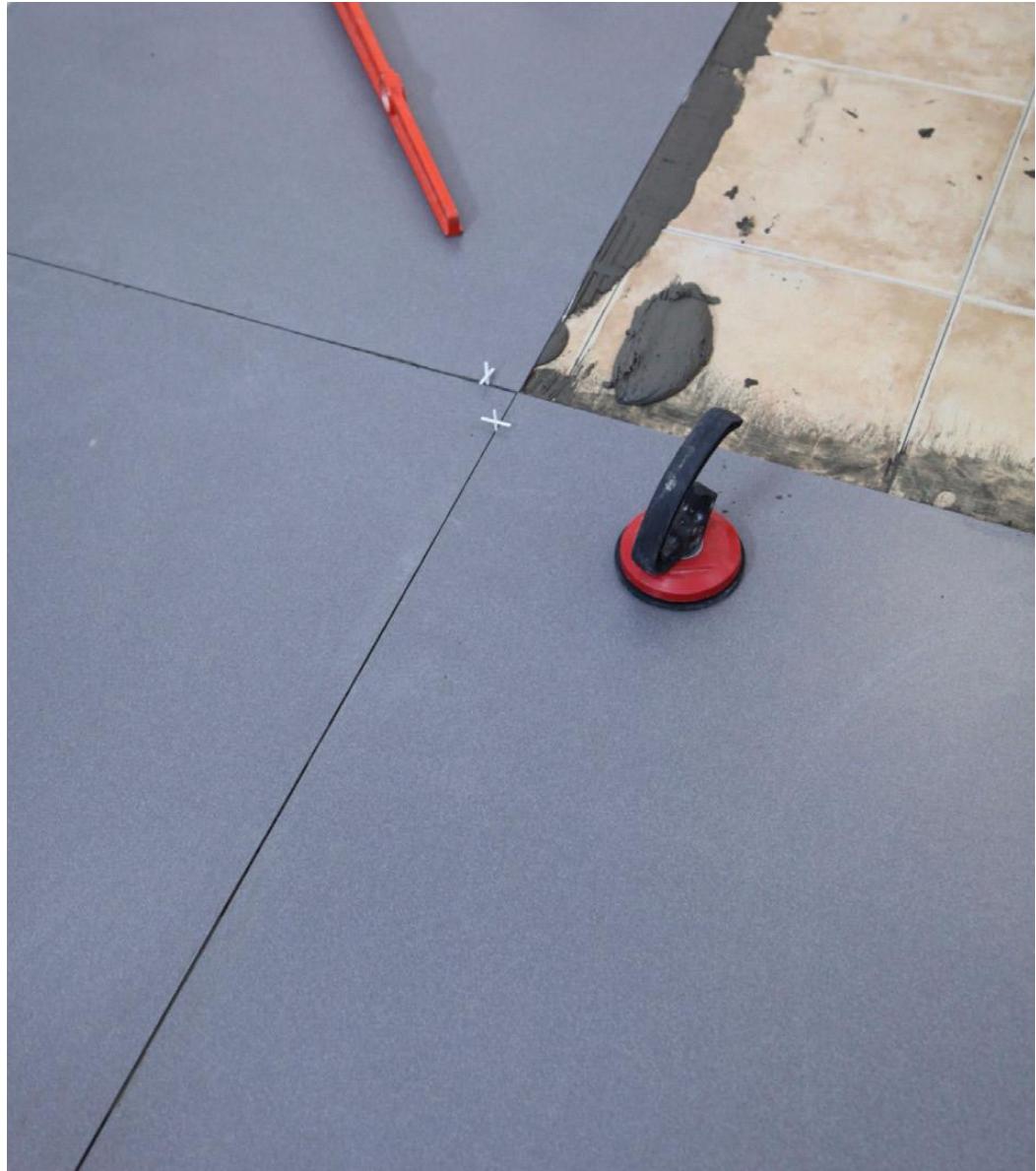
---

# 16

---

## 8. GAPS BETWEEN TILES

- The Guide to Ceramic Tiles recommends a minimum distance between tiles of 1.5 mm.



## 16

### 9. PREDICTING POSSIBLE SHRINKAGE CAUSED BY INTERRUPTIONS IN THE TILING PROCESS

- When there are interruptions in the tiling process it must be born in mind that if there has been shrinkage in the tiles that have already been laid then the remaining tiles will experience the same movement.
- Possible movement or shrinkage must be expected. If, therefore, we continue laying the tiles at the same level we must expect that this will result in a difference in levels.



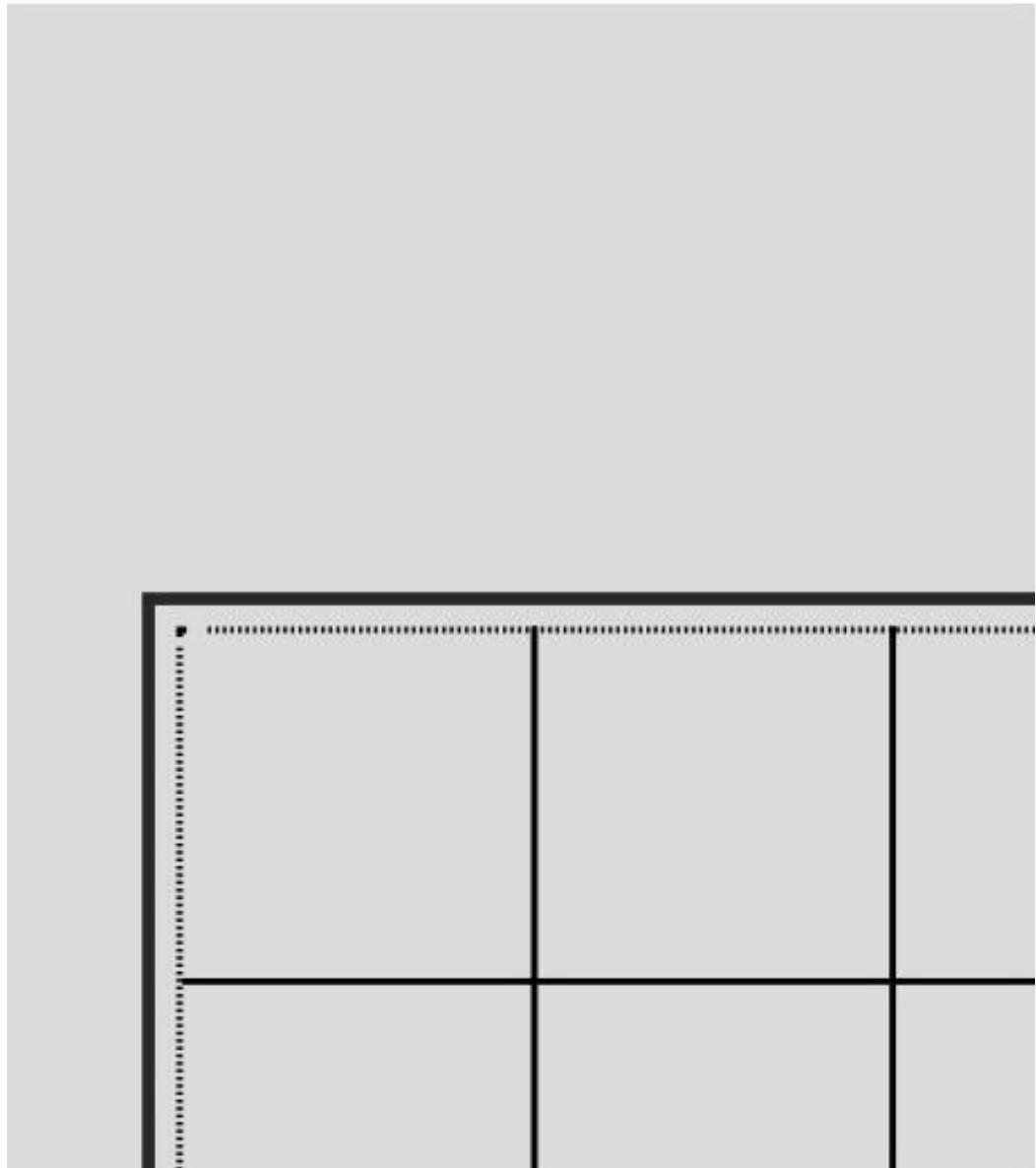
---

# 16

---

## 10. PLAN ON USING JOINS AROUND THE PERIMETER

- Consider having perimeter joins which will help to absorb any movement after the job has been finished.
- Structural or partition joins in the base must be respected.



## 16

## 11. CHOICE OF GROUTING MATERIAL

Use of material for grouting with a CG2 European denomination.

**Morcemcolor® Plus CG 2 Ar W**



**Morcemcolor® Plus CG 2 Ar W**

Mortero de rejuntado, aditivado y coloreado. Antihongos e hidrorepelente para juntas de 2 a 15 mm

**Características**

Aplicación en interiores y exteriores. Para el sellado de juntas de 2 a 15 mm. De textura muy fina, especial para el rejuntado de piezas de baja porosidad (gres porcelánico) y para la aplicación en zonas donde exista riesgo de proliferación de microorganismos. Especial para el rejuntado en zonas húmedas, piscinas, baños, cocinas, etc.

Formato baldosa (cm)	Rendimiento kg/m <sup>2</sup> (calculado para un grosor de baldosa de 6 mm)					Envase Colores	Sacos de 20 y 5 kg Gama de colores
	2	5	8	10	15		
15x15	0,27	0,68	1,09	1,36	2,04		$\frac{A+B}{A \times B} \times C \times D \times 0,17 = \text{kg}/m^2$
15x20	0,24	0,60	0,95	1,19	1,79		Donde: A = ancho de la baldosa (cm) B = largo de la baldosa (cm) C = grosor de la baldosa (mm) D = anchura de la junta (mm)
20x20	0,20	0,51	0,82	1,02	1,63		
25x33	0,14	0,36	0,57	0,72	1,08		
30x40	0,12	0,30	0,48	0,60	0,89		
40x60	0,09	0,21	0,34	0,43	0,64		
45x80	0,07	0,18	0,28	0,35	0,53		

**GAMA DE COLORES**

Blanco P1154	Amarillo P1150	Rosa P1175
Hueso P1183	Albero P1174	Zafiro P1152
Belge P1172	Salmón P1162	Plomo P1186
Madera P1182	Naranja P1185	Gris Macael P1157
Chocolate P1164	Rubi P1161	Gris P1156
Terracota P1163	Rojo P1160	Negro Antracita P1181
Wengé P1184	Esmeralda P1166	

Los colores que aparecen son orientativos

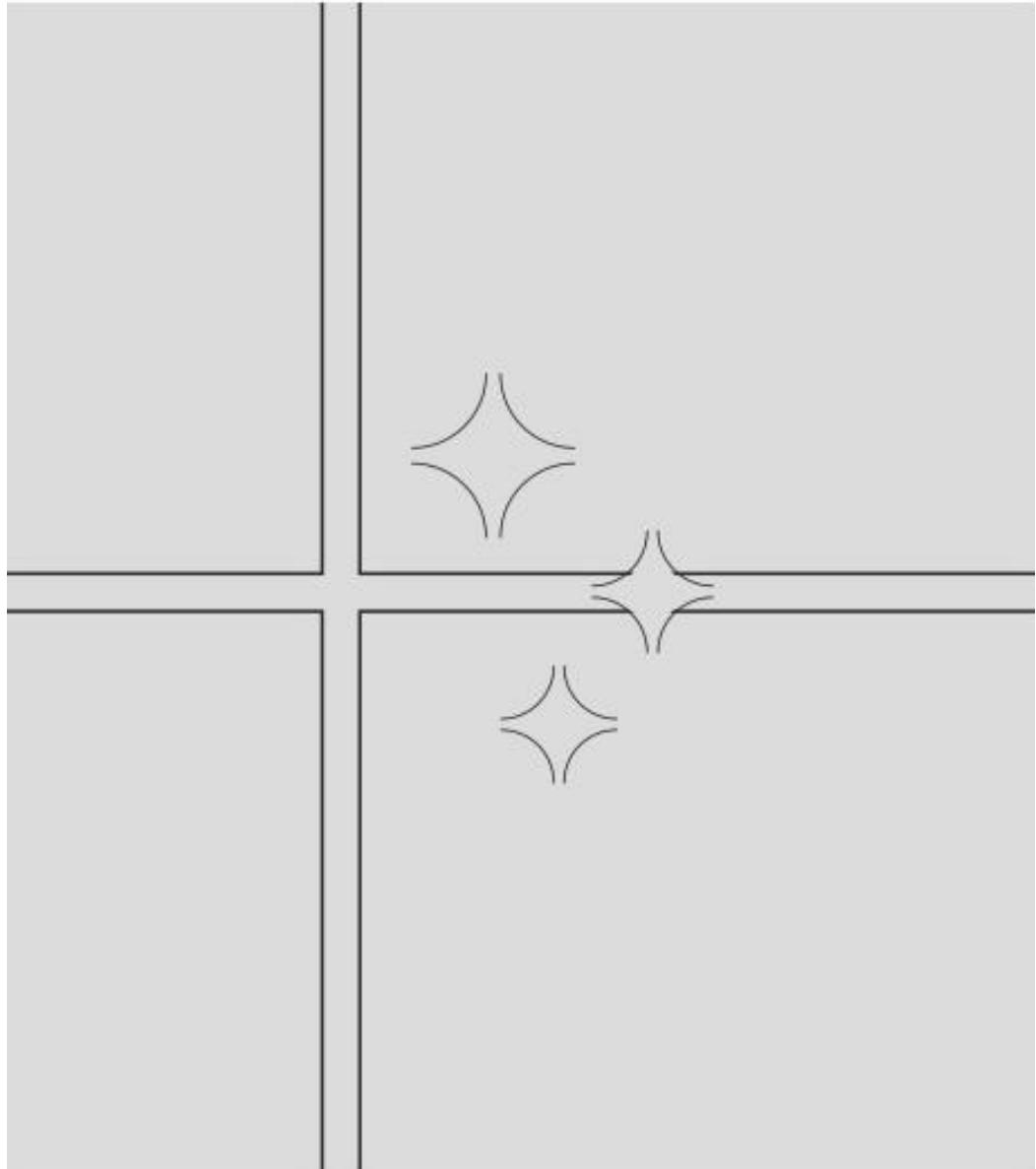
---

# 16

---

## 12. CLEAR AND CLEAN JOINS FOR GROUTING (48 HOURS)

- Check that the joins between tiles are clean and clear of adhesive and other waste.
- Any extraneous materials will reduce the effectiveness of the join and also the adhesion of the grout.



---

## 16

---

### 13. RUBBER TROWEL FOR GROUTING

- Avoid using metal trowels as they damage the enamel surface.
- Wide range of grout colours.
- Uniformity of the tone in any environment.



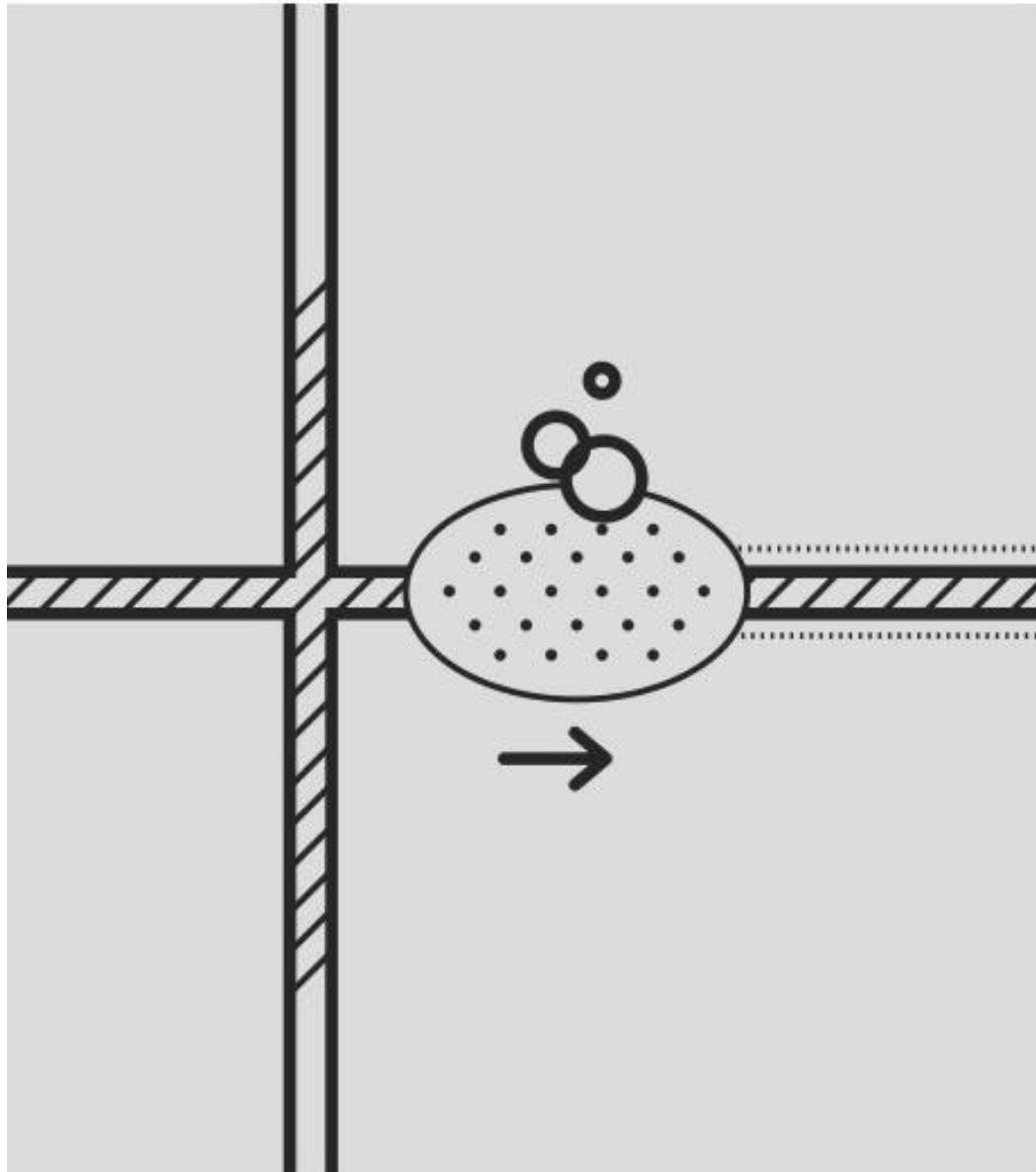
---

## 16

---

### 14. REMOVING RESIDUAL GROUT WITH A DAMP SPONGE

- Dampen a sponge in clean water to remove the residual grout.
- Leaving the grout on the enamel surface will make it more difficult to remove later, especially with those models of Techlam with an uneven surface.



---

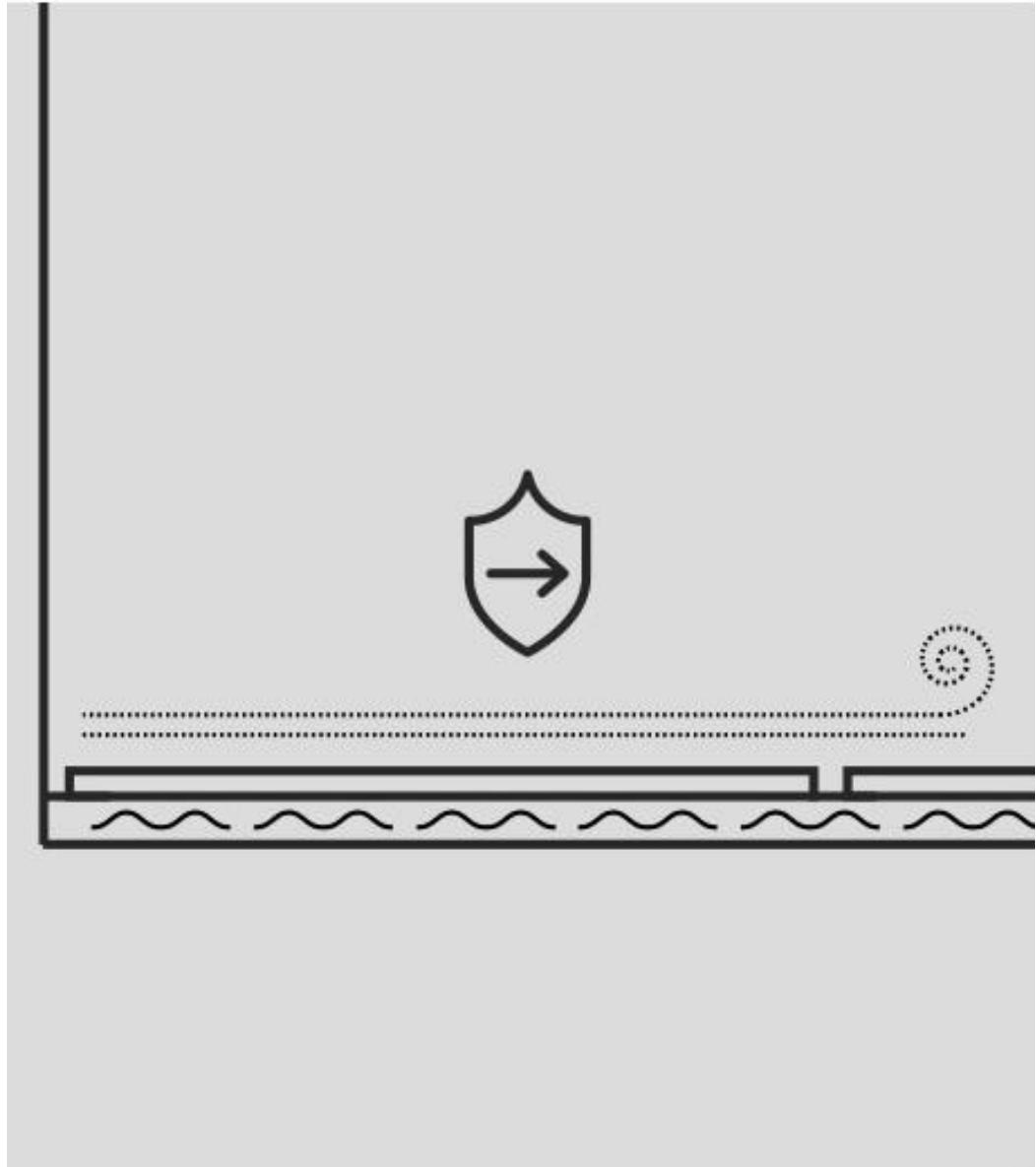
## 16

---

### 15. PROTECTING FLOORING AND PAVING ONCE TILED

Protect paving and flooring until work has been finished to avoid possible damage from:

- Abrasive material.
- Continuous movement of machinery and tools.
- It makes cleaning easier.



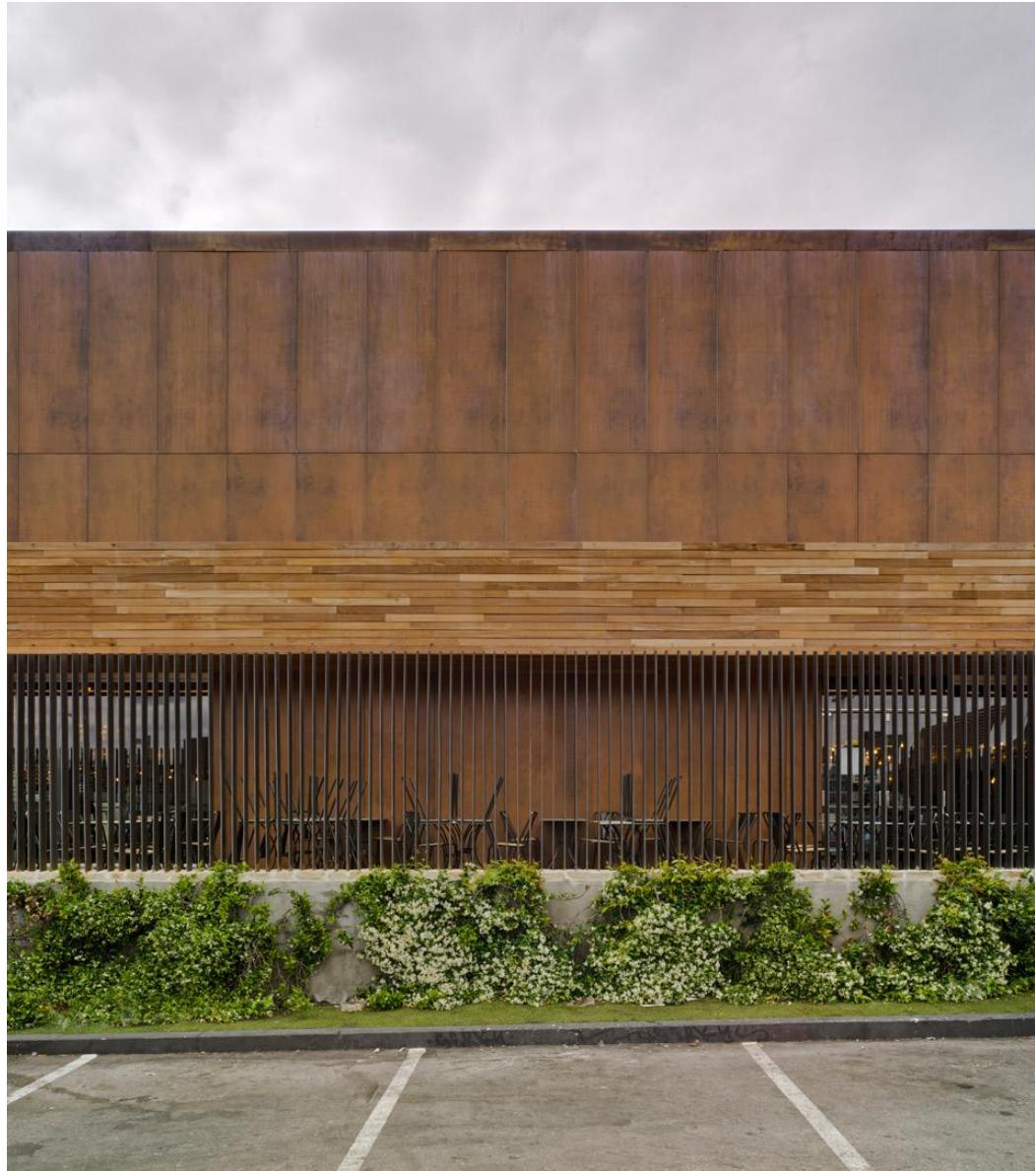
---

# 16

---

## CLADDING FAÇADES

- Recommended adhesive: Cement Adhesive, C2 TE S2 European denomination, applied to both surfaces, the base and the tile. S2 if greater flexibility is needed because of fluctuations in temperature.
- Grouting material: European denomination CG2. Joins  $\geq 5\text{mm}$ .
- Use of mechanical clips: The CTE (Technical Building Code) requires the use of mechanical clips at heights of  $\geq 2\text{m}$ . Visible clips can be painted the same colour as the TECHLAM® used.



---

# 16

---

## ERCTION. VENTILATED FACADE

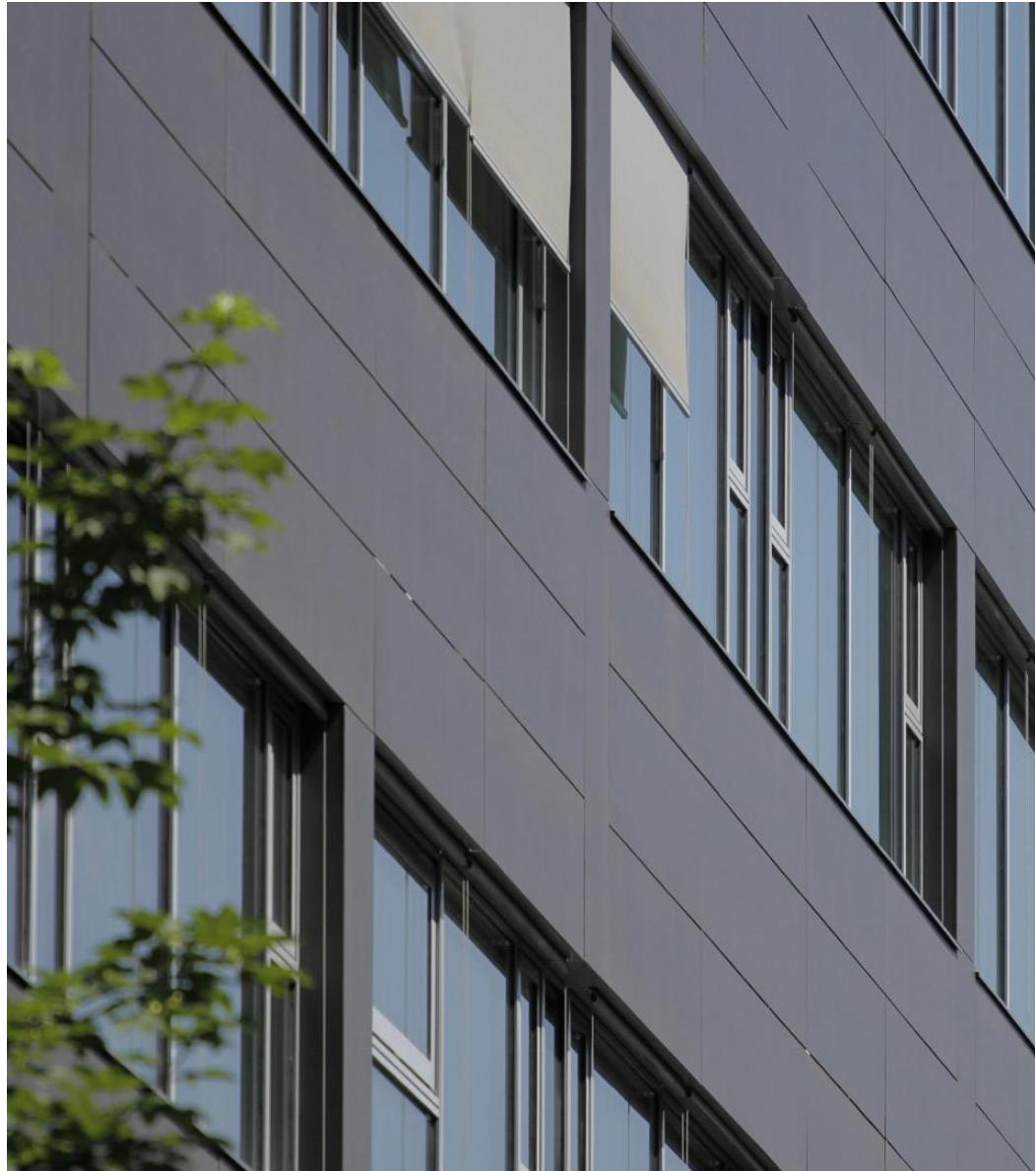
- Use of a mixed system (mechanic and chemical fixing) that prevents vibrations in cladding panels.

Recommended system: PF-ALT/SV by Sistema Masa.

- System designed to resolve thin panels in large formats. Perfect for cladding with horizontal pieces and continuous joints in horizontal and vertical directions.

- Minimum recommended joint:  
Horizontal 6mm, vertical 3mm

- Cladding without mechanization of any kind.



---

# 16

---

## ERCTION. VENTILATED FACADE

Characteristics of materials used:

Aluminum (Profiles and fixing elements: EN AW - 6005 A

• Stainless steel (anchors):  
Alloy: AEX-120/250 (AISI-304/316)

• MS polymer based elastic adhesive.  
“FOAMTAPE” adhesive strip:  
25m rolls, 12mm wide y 3mm thick  
Density: 50kg/m<sup>2</sup>

• ABS (Novodur P2H-AT - Bayer):  
Masa key



---

# 16

---

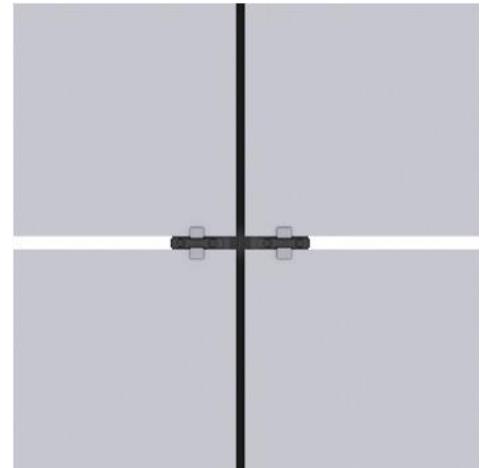
## ERCTION. VENTILATED FACADE



Side view.  
PF-ALT/SV system for large  
format panels.



Front view of  
fixing.



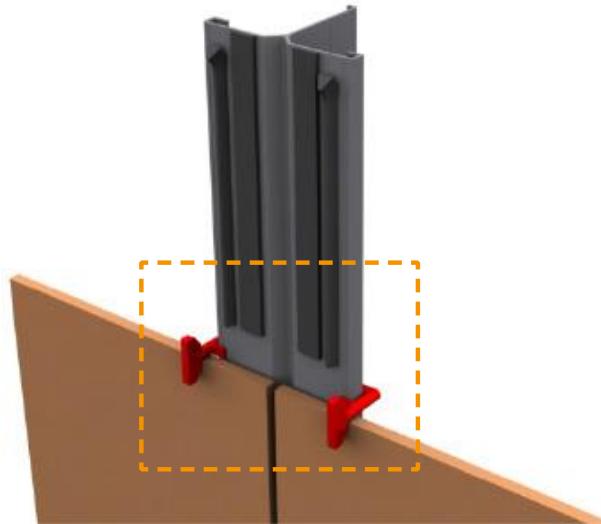
Front view of erected panels.

---

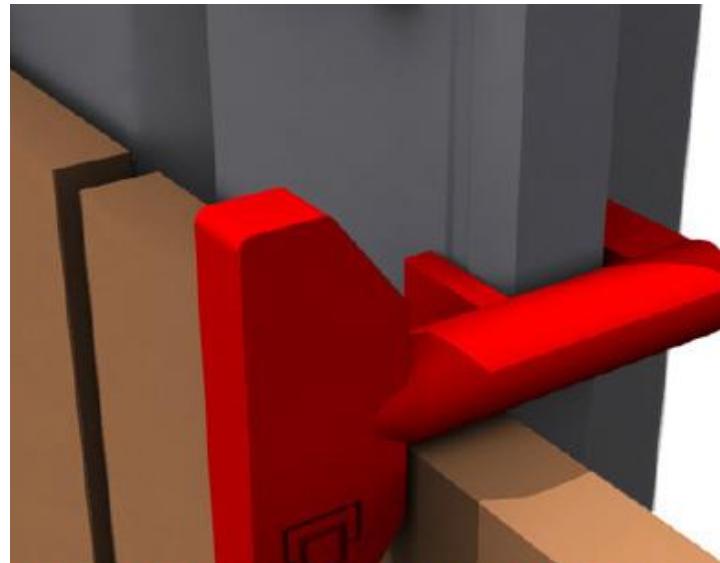
# 16

---

## ERCTION. VENTILATED FAÇADE



Positioning of keyes over profiles.



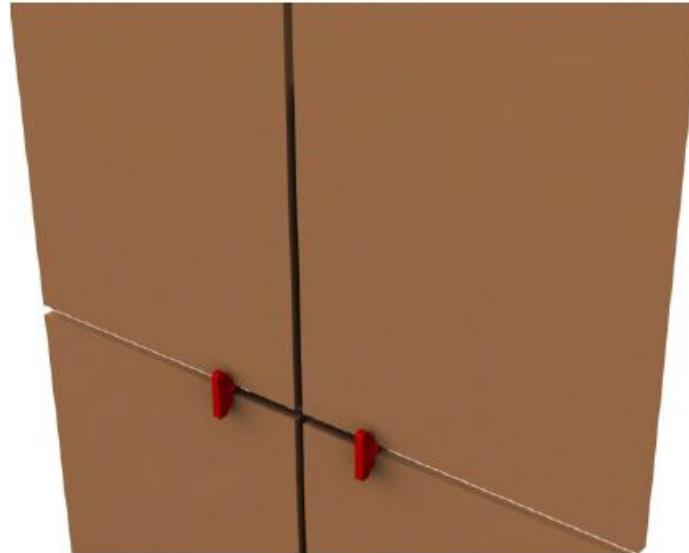
The Masa key allows the exact regulation of the joints while at the same time holding the panel in its place.

---

# 16

---

## ERCTION. VENTILATED FACADE



The key's function is to keep the panel in position until the adhesive has finished setting. Once cured the keys are removed and the support elements are placed.



The Masa system uses special profiles that allow the use of the keys to form corners.

## 16

## ERCTION. VENTILATED FACADE

## CERTIFICATION AND REGULATIONS

The PF-ALT/SV system by Sistema Masa carries the maximum certification at the European level (ETA - European Technical Approval), and complies with all of the current regulations set forth by the "Código técnico de la Edificación".

EUROCODIGO 9 "Proyecto de estructuras de aluminio".  
Parte 1-1: Reglas generales y reglas para edificación.

NORMATIVA ACTUALIZADA AL CÓDIGO TECNICO DE LA EDIFICACIÓN (CTE)  
DB-SE, "Documento Básico SE Seguridad estructural"

DB-SE-AE, "Documento Básico SE Seguridad estructural Acciones en la edificación".

DB-SE-A, "Documento Básico SE Seguridad estructural Acero".

DB-SI, "Documento Básico SE Seguridad en caso de Incendio".

N.C.S.R.-02, "Norma de construcción sismorresistente:

Parte general y edificación".

UNE 41957-1, "Anclajes para revestimientos de fachadas de edificios".

Instituto de Tecnología de la Construcción de Catalunya

Wellington, 19  
E-08019 Barcelona  
Tel.: (+34) 93 309 24 04  
Fax: (+34) 93 309 41 52  
[qualprod@itec.cat](mailto:qualprod@itec.cat)  
[www.itec.cat](http://www.itec.cat)

Aprobado p.  
meritaria con arreglo  
al artículo 10 de la Directiva  
2009/136/CE del Parlamento Europeo y del Conselho  
de la Comisión de los Estados miembros que establece la  
regulación técnica europea y  
establece normas de los Estados miembros para la  
calificación de los productos



ITeC

Institut de  
Tecnologia de la Construccion  
de Catalunya

Membre de la EOTA

## Documento de Idoneidad Técnica Europeo

DITE 13/0200

Nombre comercial:  
Trade name:

Kit PF-AL-TISOV  
PF-AL-T/SOV kit

Titular del DITE:  
Holder of approval:

MICANISMOS, ANCLAJES Y  
SISTEMAS AUTOORTANTES SL

Área genérica y uso del  
producto de construcción:  
Generic type and use of  
construction product:

Praga Edificio 3 Nave 6,  
Pol. Ind. Cova Solera  
ES-08181 Rubí  
Barcelona, Spain

Valido: de  
Validity: from  
hasta: to

Kit de subestructura y fijaciones para elementos de revestimiento en  
fachadas ventiladas o no ventiladas, fijados a pared exterior o a  
frente de forjado.

Planta de fabricación:  
Manufacturing plant:

Praga Edificio 3 Nave 6, Pol. Ind. Cova Solera  
ES-08181 Rubí  
Barcelona, Spain

El presente Documento de  
Idoneidad Técnica Europeo  
contiene:

42 páginas, incluyendo 3 anexos que forman parte del documento.

This European Technical  
Approval contains:

42 pages including 3 annexes which form an integral part of the  
document.

**EOTA**

Organización Europea para la Idoneidad Técnica  
European Organisation for Technical Approvals

---

# 16

---

## INSTALLATION ON OTHER BASES

### 1. INSTALLATION ON WATER RESISTANT WOOD

- Recommended adhesive: Reaction adhesive based on polyurethane, European denomination R2T.
- Grouting material: Flexible acrylic resin, p.e. Fugalite Eco by Kerakoll, Flexcolor by Mapei, etc. (only for wall covering).

## Superflex Eco



Adhesivo orgánico mineral eco-compatibile elástico para la colocación de alta resistencia, elevada adhesión y deslizamiento vertical nulo sobre soportes deformables, idóneo para el GreenBuilding.

Superflex Eco consigue una elevada elasticidad y tixotropía, garantizando la colocación incluso en diagonal o de arriba hacia abajo, de baldosas cerámicas y piedras naturales sensibles al agua sobre superficies absorbentes y no absorbentes, de elevada deformabilidad y dilatación.



**TECHLAM®**  
by LEVANTINA

  
sistema  
masa



---

# 16

---

## INSTALLATION ON OTHER BASES

### 2. INSTALLING ON MARBLE

Roughen the surface of the marble by applying a hydrochloric acid based product and wash off immediately so as to improve adhesion.

- Recommended adhesive: Cement Adhesive, with a C2 TE S1 European designation, applied to both surfaces.
- Grouting material: European designation CG2.



---

# 16

---

## INSTALLATION ON OTHER BASES

### 3. INSTALLING ON PARTITION WALLS

- Recommended adhesive: Cement Adhesive, with a C2 TE S1 European designation, applied to both surfaces.
- Grouting material: European designation CG2.



---

**17**

---

## Accessories

---



---

**17**

---

TILE EDGE TRIMS

Tile edge trips are the solution to corner joints.

There are numerous models and colours.



---

18

---

## Latest Projects

---



---

# 18

---

Nottingham Hub Station, Nottingham  
MUCAB, Murcia  
Ontígola Health Care, Toledo  
Courbusier Villa Seeblick, Thunersee,  
Switzerland  
Maxi Market - Mercator, Ljubljana, Slovenia  
Els Boelen, Bredene, Belgium  
Dekeyser, Sleidinge, Belgium  
Durnez Spruytte, Lichtervelde, Belgium  
VACI1 Shopping Centre, Hungary  
KÖKI Terminal Shopping Centre, Hungary  
Homes2 Suites Hilton, USA  
Forever 21. Fashion Show Las Vegas, USA  
Legends Honda, Kansas City, USA  
NH Hoteles  
La Arrixaca Maternity and Children's Hospital,  
Murcia  
Bionand. Nanomedicine & Biotechnology, Málaga  
Yooji's Bahnhofstrasse, Zurich, Switzerland  
Jerusalem Technological Center, Israel  
Hugo Boss Shops



---

# 18

---

Oasis Restuarant, Sheffield, UK  
Uljin Library, Korea  
Spa Portamaris Hotel, Alicante  
Rendezvous Hotel Perth, Australia  
Sandos Monaco Beach & Hotel, Benidorm  
Hyehwa Subway Station, Seoul, Korea  
Biblioteca Carballo, A Coruña  
Gwanju Institute of Science and Technology, Korea  
Seocho Subway Station, Seoul, Korea  
Arts Faculty - University of Murcia, Murcia  
Emporium Activity, Gandia  
Si-Gong Tech Building, Seoul, Korea  
Sabadell Residential Building, Sabadell  
Fundación Botín, Madrid  
Mercator Centar Beograd, Belgrade, Serbia  
Waterloo Station, London, UK  
Shiba - Tel Ashomer Hospital, Israel  
Vázquez Díaz Hospital, Huelva  
Luabay La Cala Hotel, Palma de Mallorca



---

**18**

---

CLINIC SVENSON.  
Barcelona. Spain.



---

# 18

---

POLLO PLANES.  
Various locations. Spain.



---

**18**

---

SCHOOL CEIP N°100.  
Valencia. Spain.

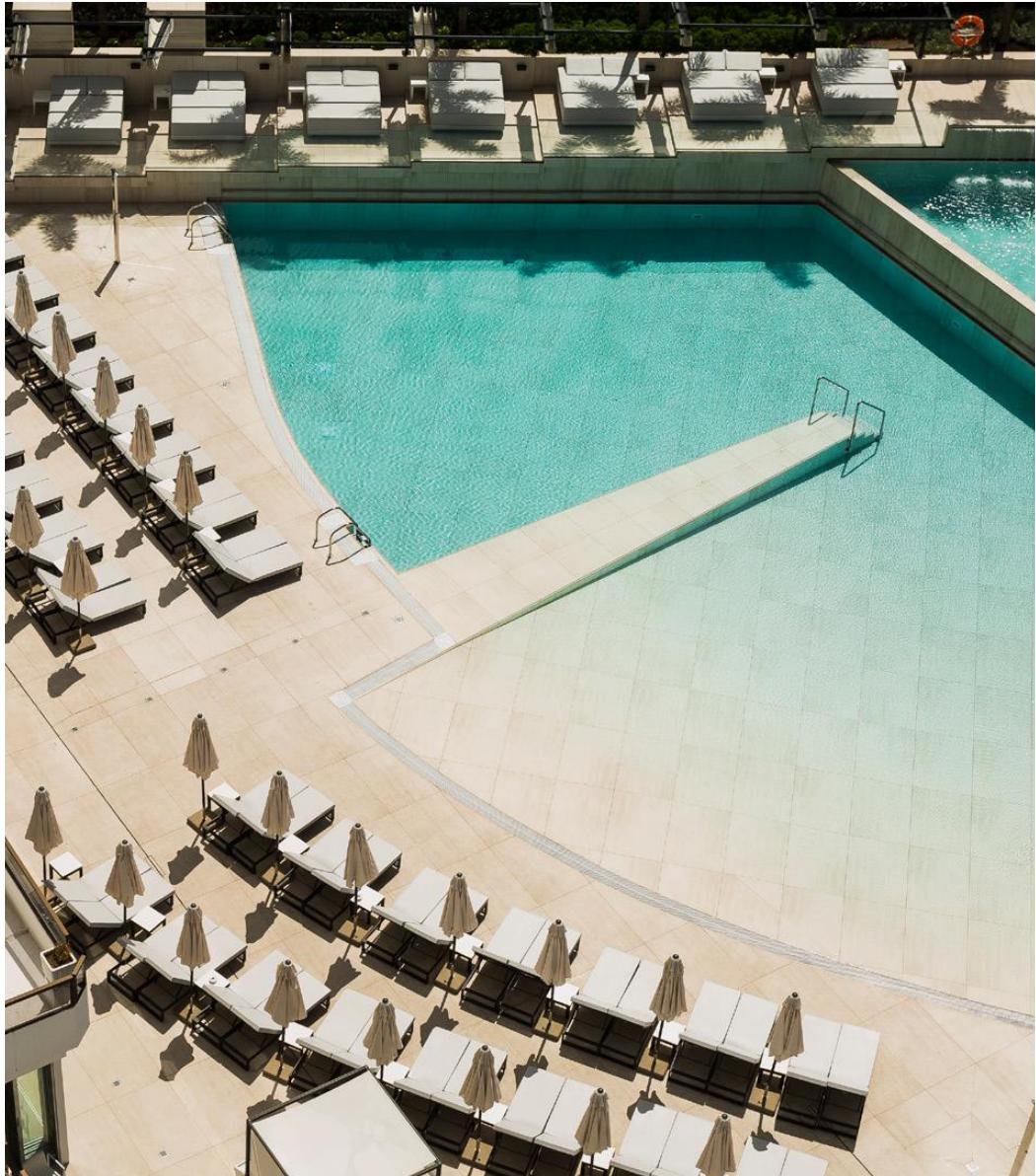


---

**18**

---

HOTEL CASINO.  
Gran Canaria. Spain.



---

# 18

---

BOMTON FLORENTUM  
Praga. Rep. Checa



---

**18**

---

MELIA HOTELS.  
Various locations. Spain.



---

**18**

---

FUNDACIÓN BOTÍN.  
Madrid. Spain.



---

**18**

---

GREEN HOUSE BUILDING.  
Budapest. Hungary.

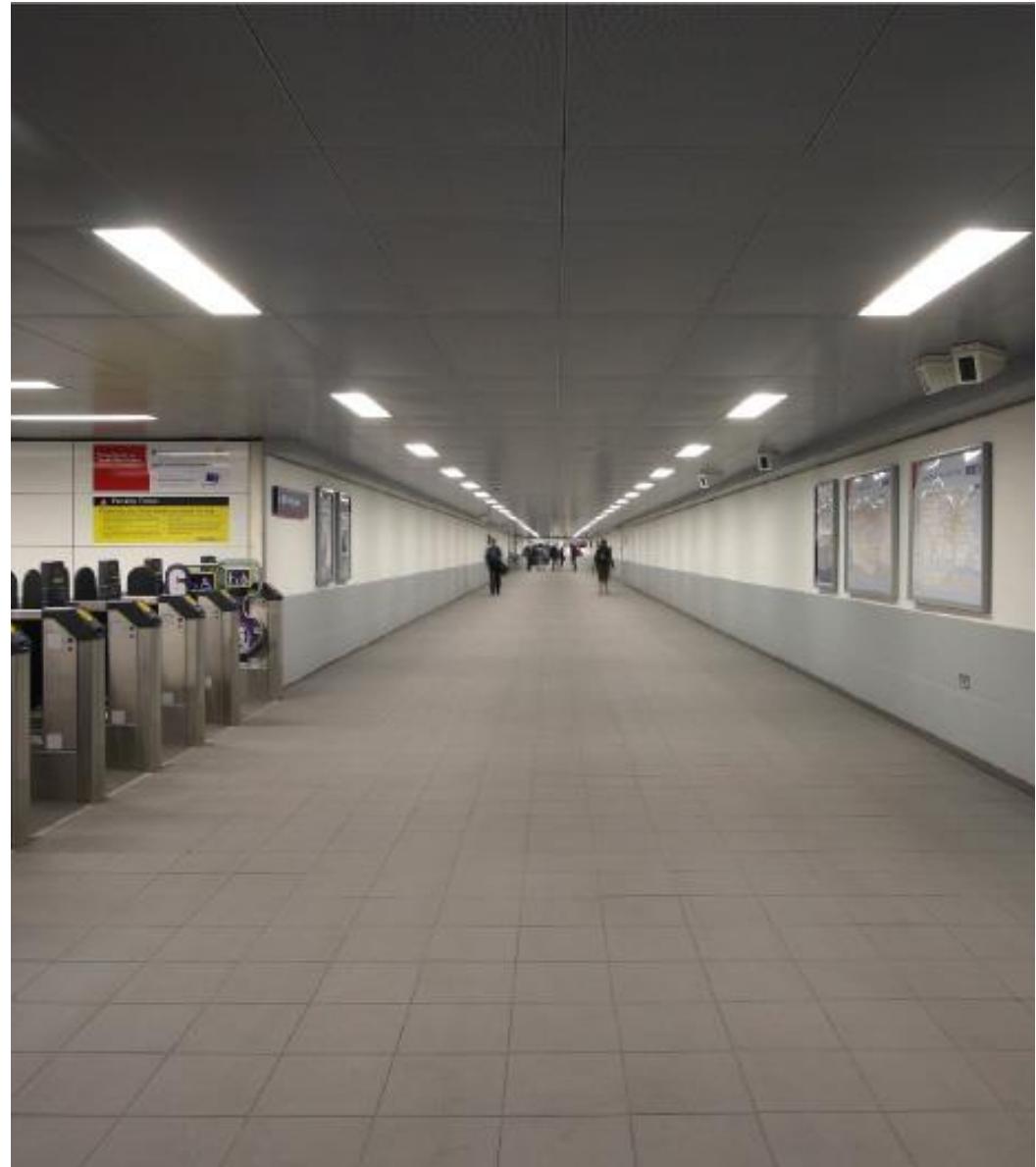


---

**18**

---

WATERLOO STATION.  
London. UK.



---

# 18

---

NOTTINGHAM HUB STATION  
Nottingham. UK.



---

# 18

---

SACCHARUM HOTEL  
Madeira. Portugal.



---

**18**

---

## Integrated Projects

---

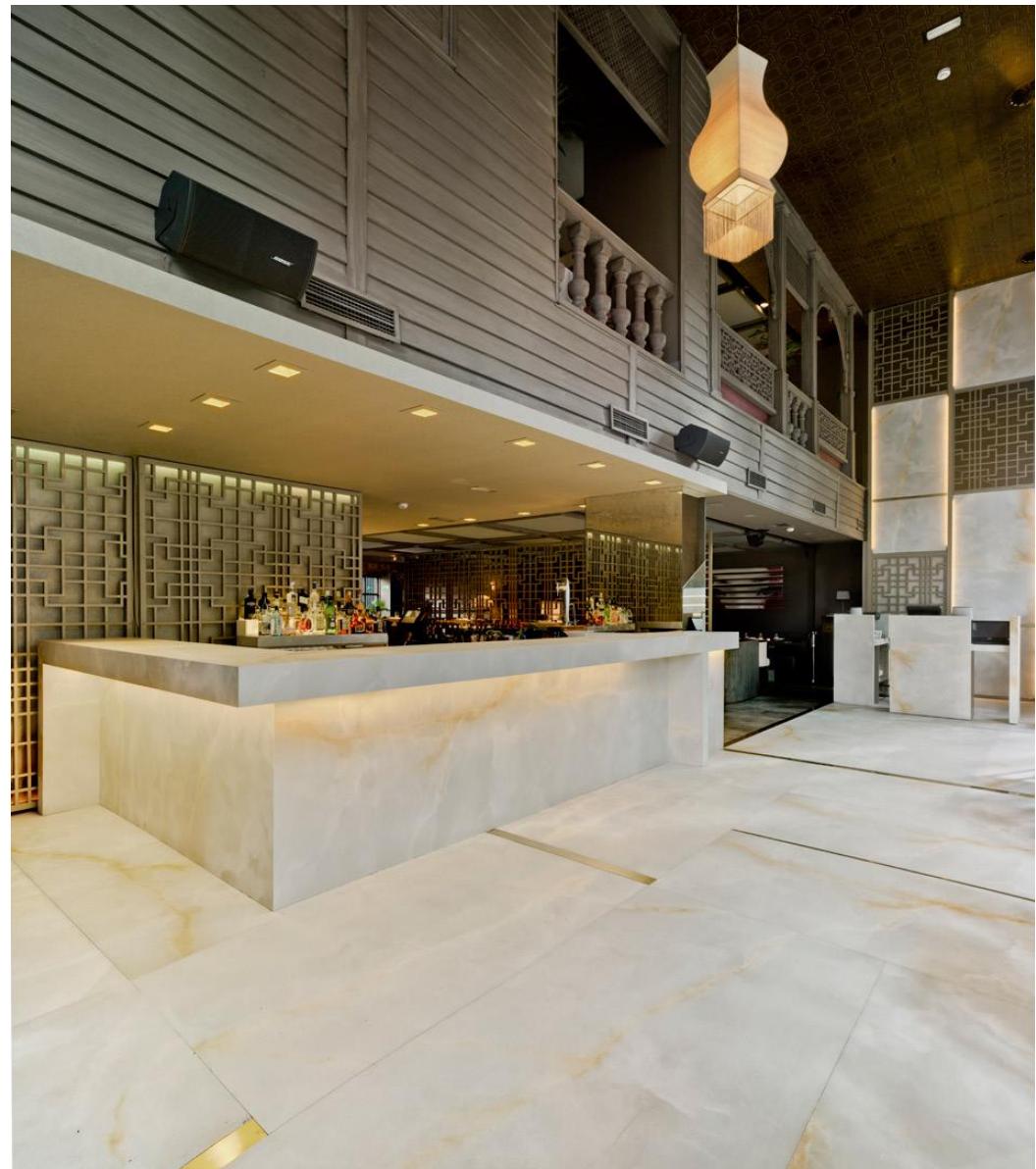


---

**18**

---

CAFÉ SAIGON.  
Madrid. Spain.



---

**18**

---

CAFÉ SAIGON.  
Madrid. Spain.



---

# 18

---

CAFÉ SAIGON.  
Madrid. Spain.

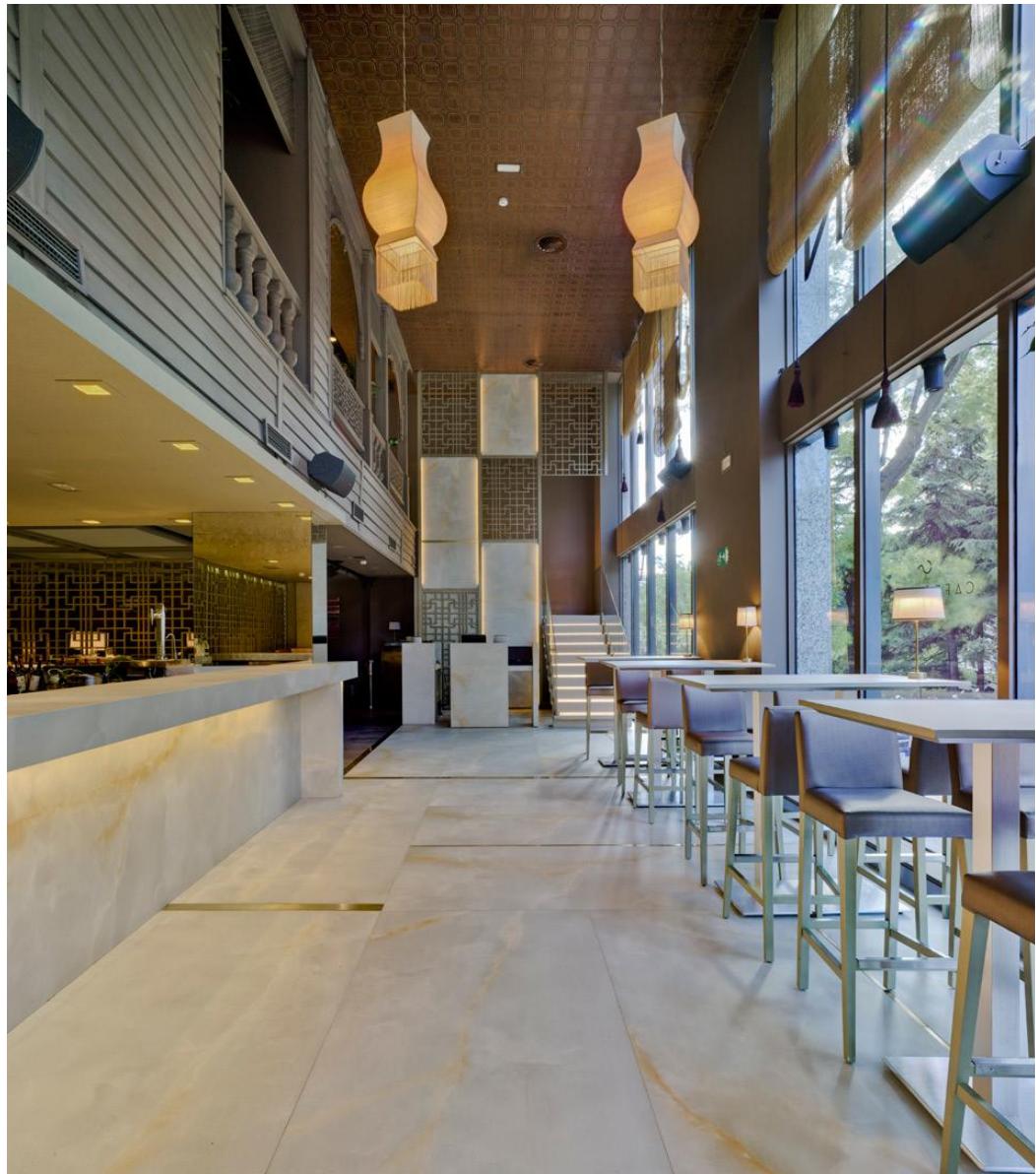


---

**18**

---

CAFÉ SAIGON.  
Madrid. Spain.



---

**18**

---

PINE CLIFFS HOTEL.  
Algarve. Portugal.



---

# 18

---

PINE CLIFFS HOTEL.  
Algarve. Portugal.



---

**18**

---

PINE CLIFFS HOTEL.  
Algarve. Portugal.



---

**18**

---

PINE CLIFFS HOTEL.  
Algarve. Portugal.



---

**18**

---

PINE CLIFFS HOTEL.  
Algarve. Portugal.

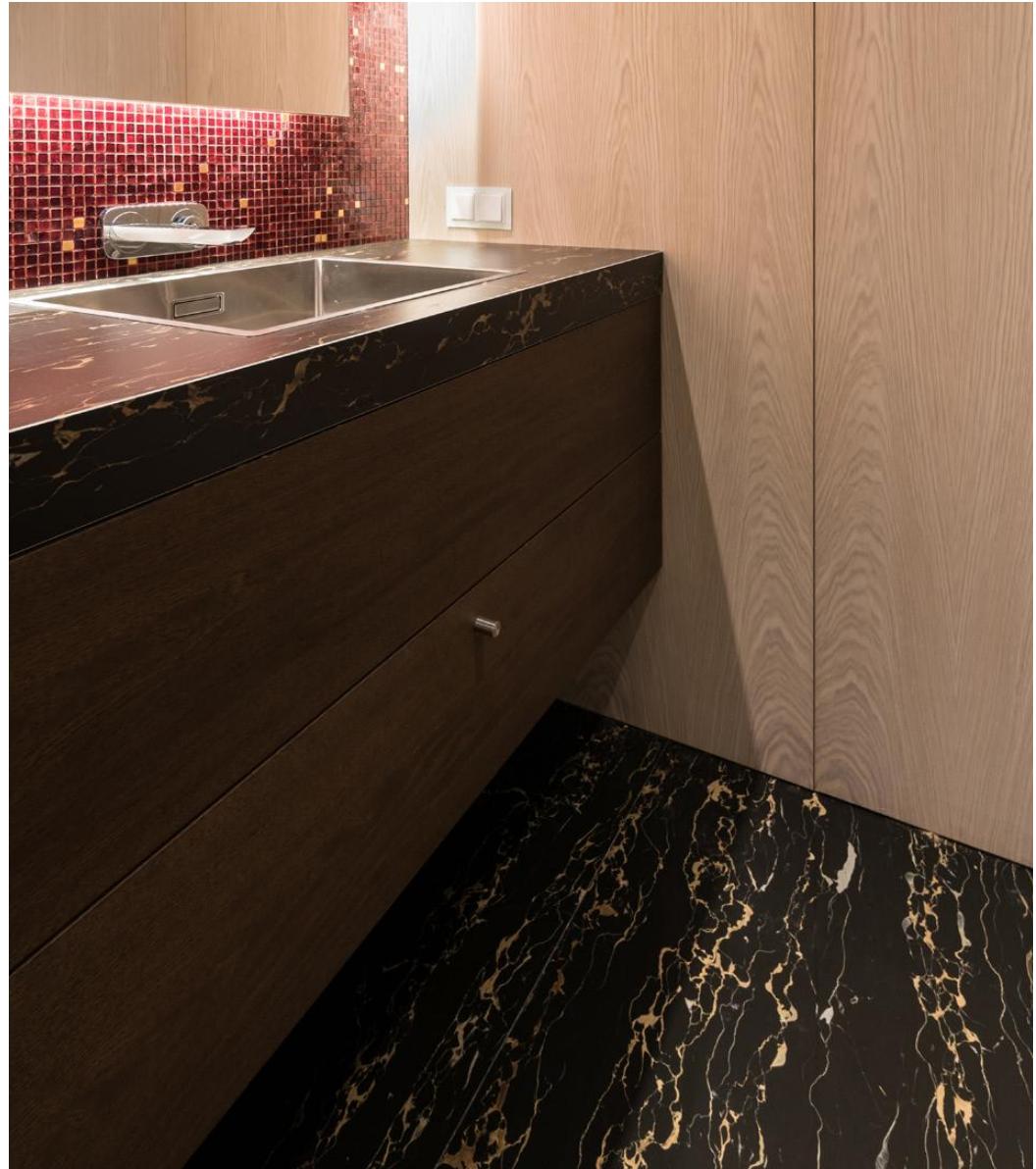


---

**18**

---

PINE CLIFFS HOTEL.  
Algarve. Portugal.



---

**18**

---

PINE CLIFFS HOTEL.  
Algarve. Portugal.

**TECHLAM®**  
by LEVANTINA

Material: TECHLAM® Various colours



---

**18**

---

PINE CLIFFS HOTEL.  
Algarve. Portugal.



---

**18**

---

TECHLAM GALLERY.  
Bologna. Italia.

**TECHLAM®**  
by LEVANTINA

Material: TECHLAM® Various colours



---

**18**

---

TECHLAM GALLERY.  
Bologna. Italia.



---

**18**

---

TECHLAM GALLERY.  
Bologna. Italia.



---

# 18

---

TECHLAM GALLERY.  
Bologna. Italia.



---

**18**

---

TECHLAM GALLERY.  
Bologna. Italia.

**TECHLAM®**  
by LEVANTINA

Material: TECHLAM® Various colours



REFERENCES



DISCOVER ALL OUR PROJECTS IN:  
[flickr.com/people/techlam-by-levantina/](http://flickr.com/people/techlam-by-levantina/)

flickr Tú Explorar Crear

Fotos, personas o gr.

 Techlam by Levantina + Seguir

15 seguidores • Siguiendo 7 269 fotos Se unió en 2011

Galería Álbumes Favoritos Grupos Más ▾

 Jornada de formación Techlam en Alemania/Techlam training day at Germany 14 fotos • 89 vistas

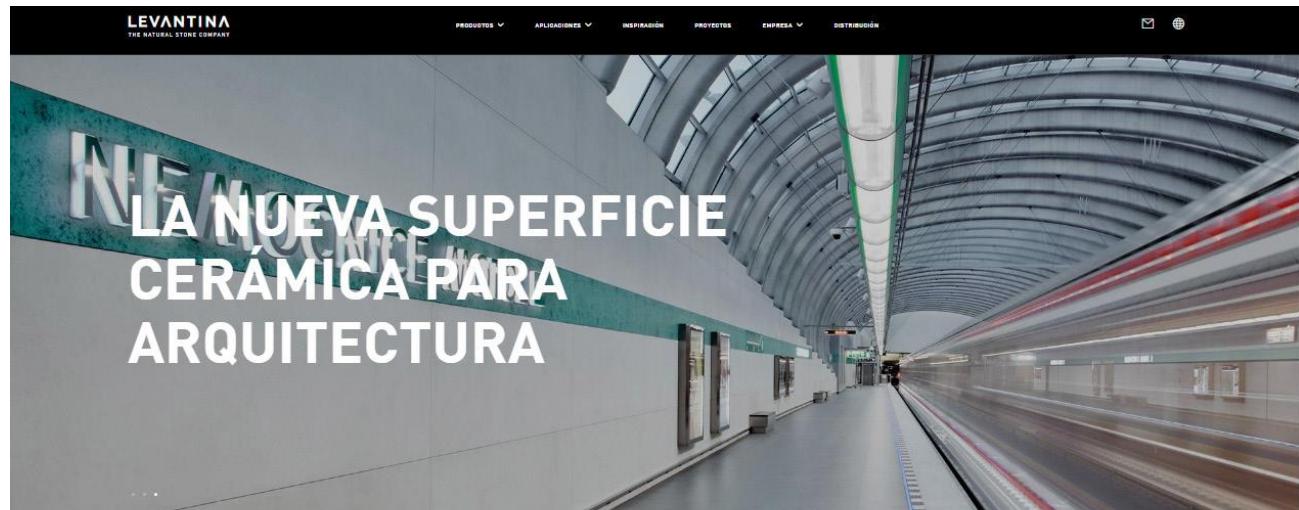
 Techlam installation day in Germany (June 2013) 14 fotos • 148 vistas

 Centros Comerciales / Shopping Centres 10 fotos • 228 vistas

 Edificación industrial / Industrial building 43 fotos • 164 vistas



FIND US AT:  
[www.levantina.com](http://www.levantina.com)



SEGMENTO

PRODUCTO

PAÍS

AÑO

INICIO  
PROYECTOS

VOLVER

Sólo una organización líder como Levantina, con capacidad de movilizar grandes recursos, puede llevar a cabo grandes proyectos arquitectónicos.

Fruto de su experiencia en grandes obras, Levantina cuenta con una división de proyectos cuya misión es la promoción de los materiales de la compañía en grandes proyectos a nivel mundial. Este equipo altamente especializado, también lleva a cabo la investigación sobre sistemas constructivos aplicables a toda la gama de productos Levantina. Levantina trabaja con arquitectos e ingenieros en la aplicación de sus materiales en pavimentos, revestimientos, fachadas ventiladas y cualquier otra solución técnica, colaborando para hacer realidad cualquier proyecto.

**TECHLAM®**  
by LEVANTINA