



 **TecnoGrafica**<sup>®</sup>  
italian wallcoverings

**Dècora**  
**GLASS**

**HIGH DEFINITION MEETS  
THE ELEGANCE OF GLASS**

**TECHNICAL  
MANUAL  
DÈCORA GLASS  
BACKLIT**

## DÈCORA GLASS BACKLIT

### The new version of Dècora Glass panels

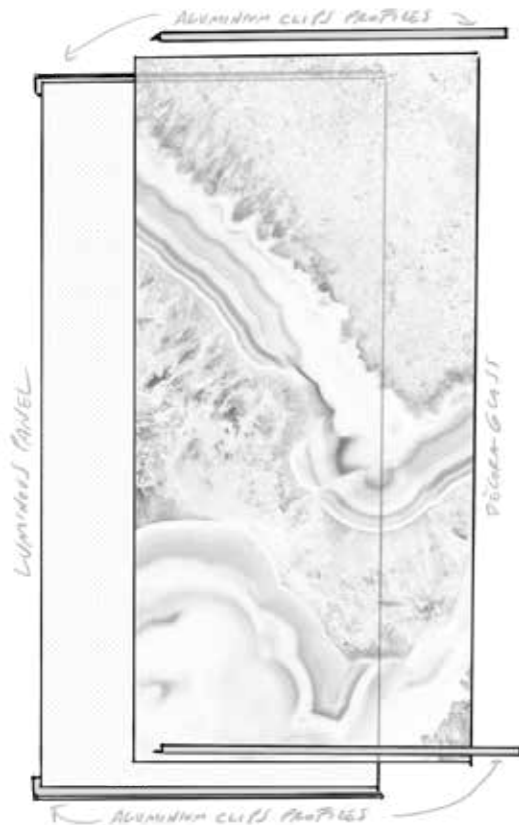
Dècora Glass panels are now available also in the “backlit” version, integrated with LED lighting system. Our lighting system consists of a 15 mm thick PMMA and aluminum panel in which LED strips are installed; the surface of the panel is laser processed to allow the light to spread uniformly on the entire surface.

Dècora Glass Backlit can be easily installed on site with elegant aluminium clips profiles.

Thanks to their big dimensions (maximum size of 1480x3000 mm) and reduced total thickness of the glass slab combined with the luminous panel (23.7 mm), Dècora Glass Backlit panels are suitable for the installation on big surfaces.

These panels can also custom made in sizes, based on the dimensions of the specific project.

Dècora Glass Backlit is the result of a research that expresses the synthesis between art and technology, offering the possibility of creating environments with great aesthetic impact and maximum design freedom.



## INSTRUCTIONS FOR USE DÈCORA GLASS BACKLIT

Installation, transport, storage and handling.

### Dècora Glass Backlit slabs

Dècora Glass Backlit slabs are the expression of Italian Design among luxury interior coverings. Dècora Glass Backlit is the result of a research that expresses the synthesis between art and technology, offering the possibility of creating environments with great aesthetic impact and maximum design freedom.

#### 1 - Structure of Glass Backlit

It is the combination of a standard Dècora Glass slab - 8.7 mm thick – and a 15 mm PMMA luminous panel with integrated LEDs. The total thickness is 23.7 mm. Dècora Glass Backlit can be easily installed on site using elegant clips profiles. Dècora Glass slabs are also available, upon request, in tempered glass.

#### 2 – How to project Decora Glass

The ability to provide a simulation of the future installation and to respond to requests of the designer are just some of the strengths of the professional service that revolves around the Dècora Glass product; this thanks to Tecnografica's thirty years of experience in interior design, which has grown over time between creativity and innovation.

Creativity and innovation have always been the two words that have accompanied our story, Dècora Glass best expresses this synthesis.

#### 3 - Maximum size and special requests

Dècora Glass slabs reach the maximum size of 1480x3000 mm; it is possible to request customized sizes within the maximum dimensions. Our technical department will check all your specific requests to meet your needs.

#### 4 – Technical Characteristics

In the past years, the constant and increasing research of glass slabs producers has allowed us to reach very high performance standards.

Decora Glass slabs are made out of laminated safety glass. The layering process gives the glass a high impact resistance, an improvement in acoustic performance and, in case of breakage, it does not release dangerous glass fragments.

The extremely hard and scratch-resistant nature of Dècora Glass allows it to be used as a slab for the decorative coating of any surface.

Dècora Glass sheets have all the latest innovations that are applied superficially to this material, such as antibacterial treatment, self-cleaning or other surface mechanical effects.

This manual is intended to provide useful information for a correct installation of Dècora Glass by Tecnografica S.p.A..

These are decorative sheets in laminated glass suitable for covering walls and furnishing elements in an indoor environment. Dècora Glass is available in the maximum size of 1480x3000 mm and has a thickness of 8.7 mm.

## PRELIMINARY CHECK OF SUPPORTS AND MATERIALS

Before proceeding with installation, it is essential to check that the materials involved in the installation are suitable for use and that the substrates meet the requirements of flatness, seasoning, humidity, cleaning and mechanical resistance described below.

### EXPANSION JOINTS

We advise to arrange elastic joints with the function of absorbing any movements originating from thermo-hygrometric alterations of the supports or from oscillations of the walls. The same if the plates Dècora Glass are combined with materials with a higher thermal expansion coefficient.

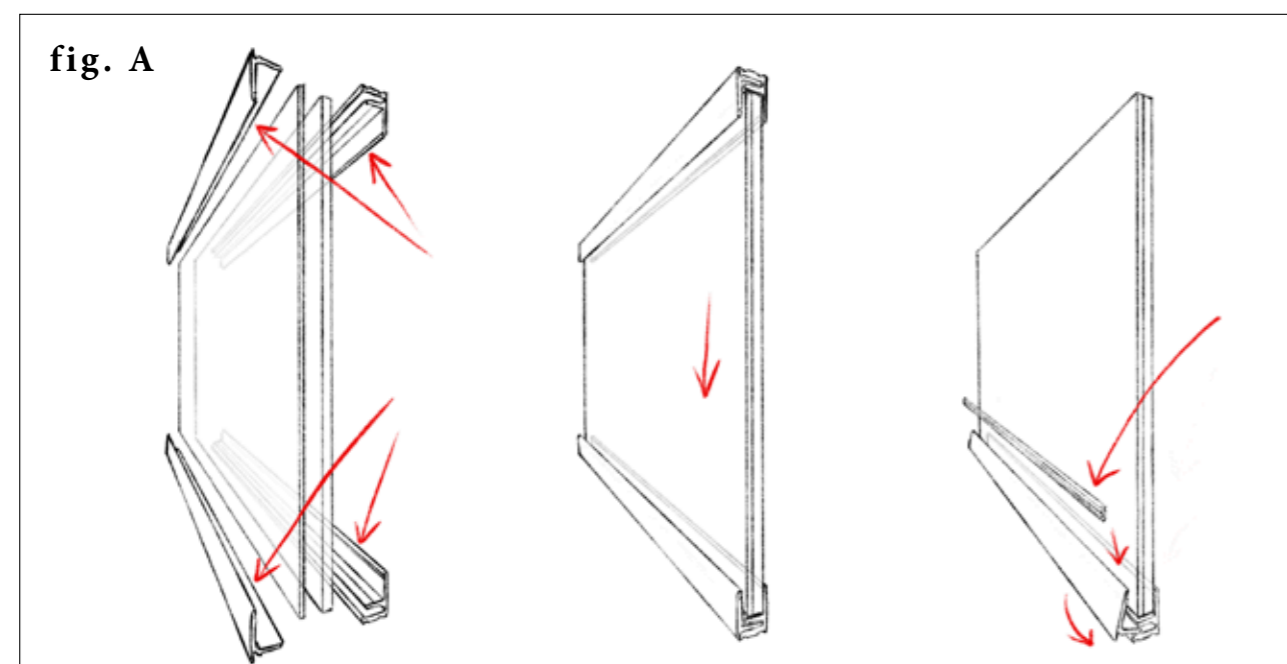
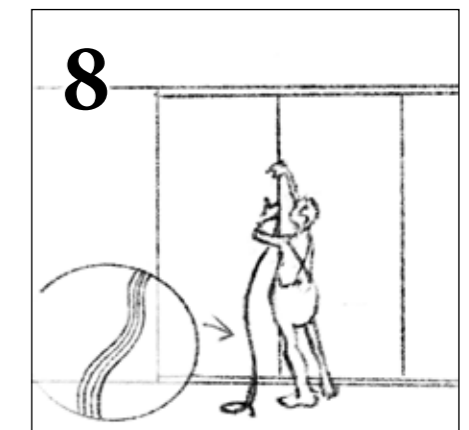
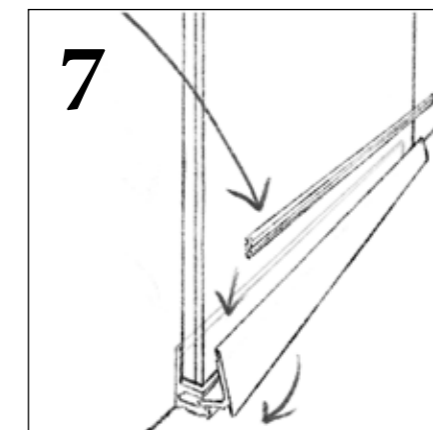
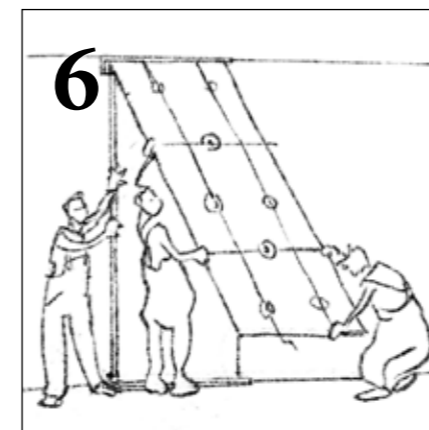
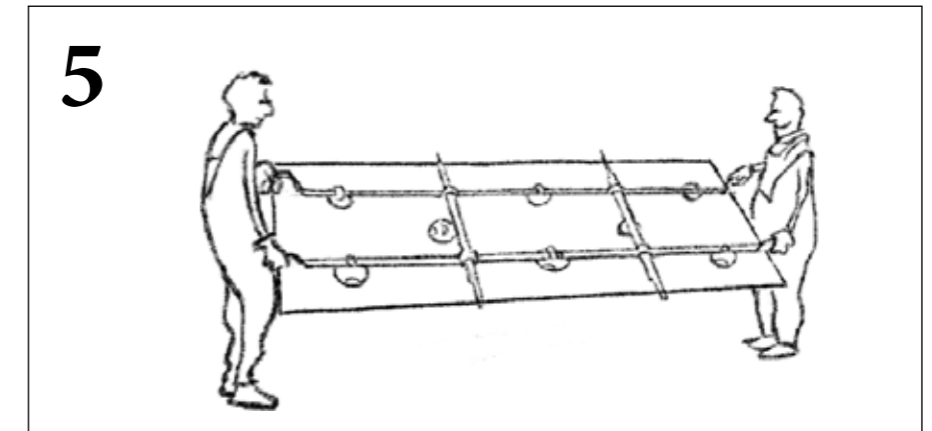
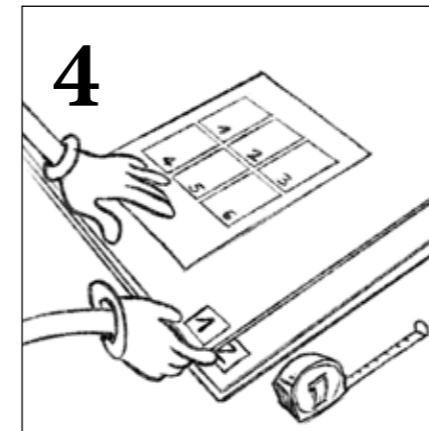
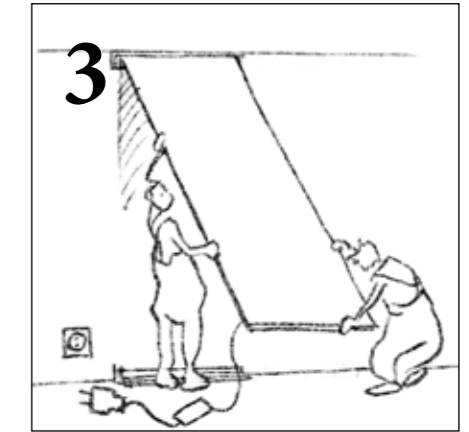
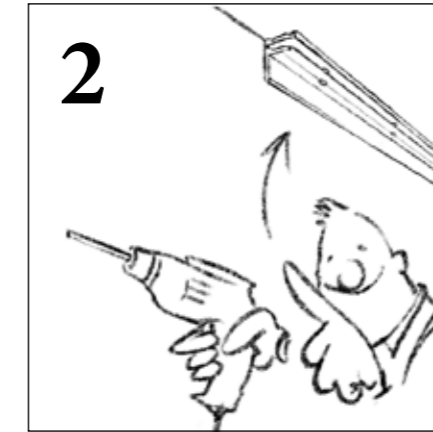
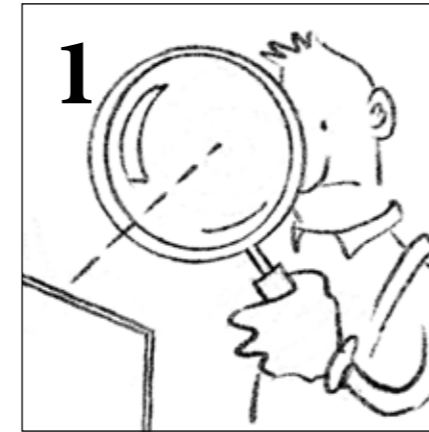
In general, the minimum width of the joint between the side of the slab and the internal vertical edge of the walls must be at least 6 mm.

For sealing the joint it is recommended to use neutral polymerization silicones and refer to the product data sheet for application.

## INSTALLATION

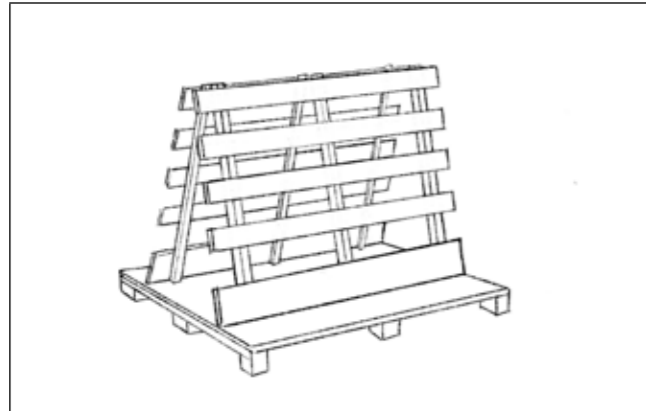
Important: we suggest at least three professionals to conduct the installation.

1. Open the crate and check both the slab and the backlit structure. Any aesthetic and size incongruence has to be notified before to proceed with the handling and the installation.
2. Install both the upper and the lower profile as shown in the image. See also image A as an overview of the installation steps, until step 7.
3. Take the backlit structure and insert it into the profiles. Place the electrical part close to the selected power source
4. Use the visual simulation to check the correct layout of the design.
5. Then, take the Dècora Glass slabs by using proper tools, being aware you are handling fragile glass panels.
6. Place the Dècora Glass slab on the backlit structure, according to the project scheme (order of panels and layout). Install the slabs by carefully inserting the upper part of the Glass panel into the upper profile, then inserting the bottom part into the lower profile.
7. Close the clips profiles and install the appropriate seals.
8. In case you need to install more slabs with continuous design, you need to repeat the procedure for each panel by carefully following the correct order and graphic layout. Add the seal between one slab and another to avoid the direct contact between them.
9. Dècora Glass Backlit is now ready to be light on. Light it up!

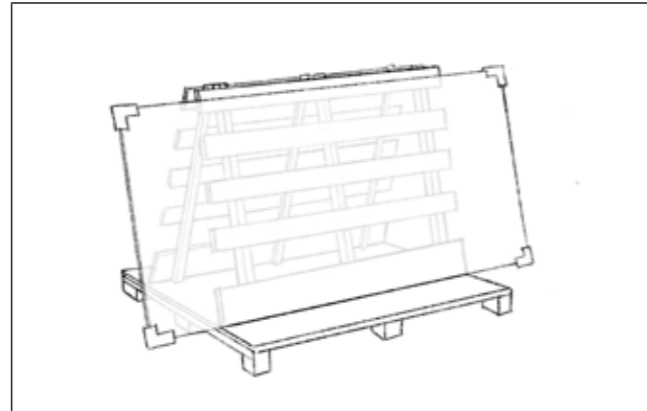


## TRANSPORT, STORAGE AND HANDLING ON SITE

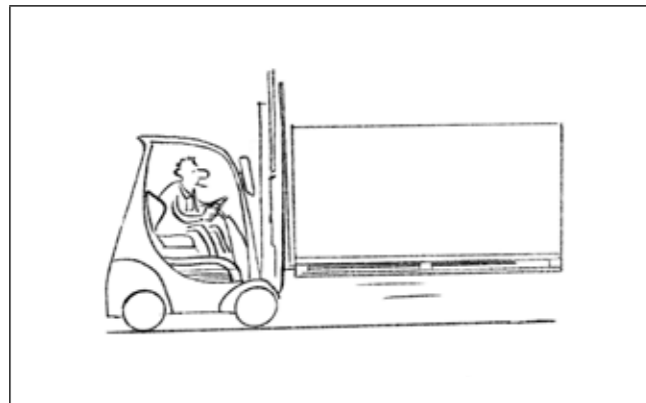
For the transport, storage and handling of Dècora Glass sheets, reference is made to the standard indications for handling glass sheets:



For safe transport and storage, use glass racks compliant with EC directives, taking care to fix them in order to avoid pressure on the windows. Follow the maximum load instructions on the labels of each truck.



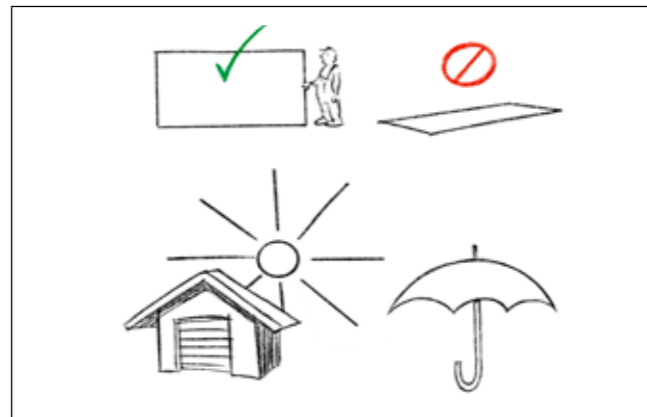
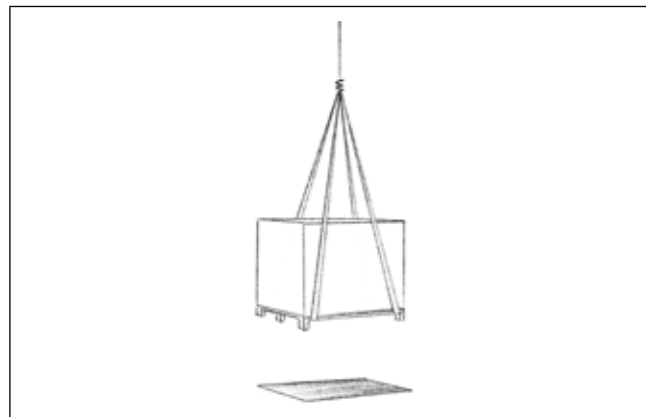
The sheets must be stored and transported only vertically, making them rest on the side of greater length in order to prevent them from overturning.



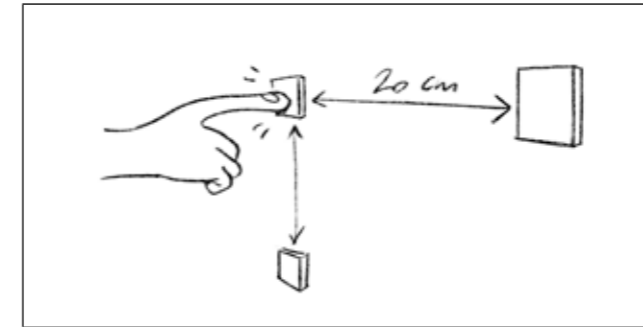
It is possible to handle the packaging with a forklift, as long as it is equipped with forks with an adequate extension, in order to avoid instability phenomena and transport the packaging in safe conditions.



It is absolutely forbidden to push or drag the crate.

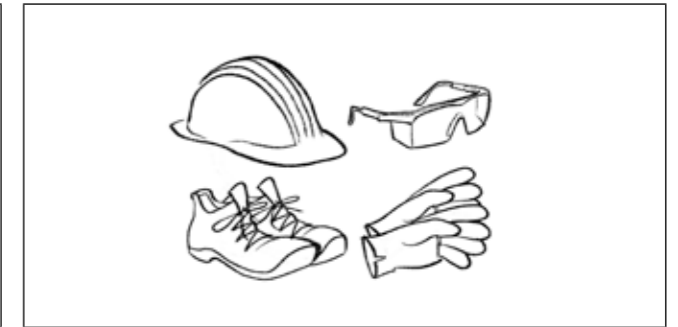


It is possible to lift and handle the packages with a crane if properly harnessed. The harness must be made in a balanced way, so as to distribute the weight of the case evenly.

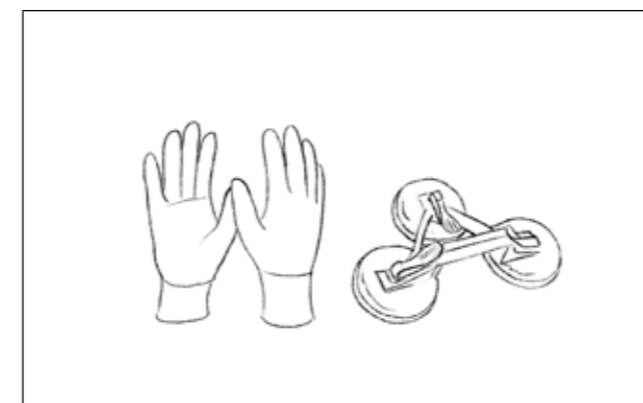


For the correct storage of the sheets, insert special spacers between them, in order not to create micro-cracks from contact or rubbing.

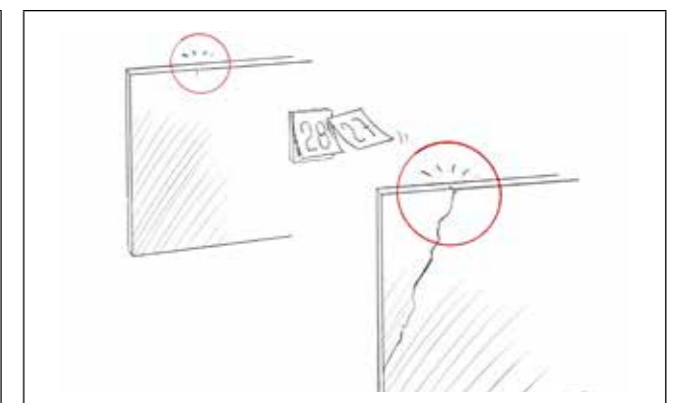
The sheets must be stored vertically in areas sheltered from the sun and bad weather, away from heat sources, at a temperature between + 5 ° C and 35 ° C, with a relative humidity of less than 70%. Prolonged contact between Dècora Glass sheets and vulcanized black rubber is not recommended.



To move the Dècora Glass on site, it is necessary to equip yourself with the correct safety devices such as gloves, protective helmet, protective goggles, safety shoes and protective clothing.



Handle the sheets with the utmost care and wearing clean gloves. Larger and heavier slabs must be handled with suitable equipment (suction cups).



! Attention! to the edges of the glass. Edges showing injuries, such as chips caused by incorrect handling of the sheets, can over time trigger the breaking of the glass

## ORDINARY AND EXTRA-ORDINARY MAINTENANCE

Glass is a fascinating material, surprisingly resistant and at the same time delicate. By taking care of it with the right products, the glass and its shine will last longer.

## GENERAL GUIDELINES FOR THE MAINTENANCE OF DÈCORÀ GLASS

For best cleaning results, follow these instructions:

- Use specific products for glass.
- Spray the product on a clean microfibre cloth and wipe the surfaces.
- Do not deposit detergents directly on the glass or let them drip.
- Rinse immediately after cleaning with clean water.
- Avoid cleaning with alcohol and newsprint or abrasive sponges.
- Do not use abrasive or alkaline cleaners.
- Do not use detergents that contain acid components, alcohol, ammonia, or other aggressive chemical agents.
- Do not use detergents or descaling liquids.
- Do not use petroleum based products, such as gasoline, diesel, or light fluids.
- Avoid using excessively hot (or excessively cold in summer) water for a while
- extended over a limited area of the plate.
- Avoid using high pressure steam for a prolonged time on a confined area of the
- slab.
- Avoid cleaning windows exposed to direct sunlight or hot windows.
- Never use sharp objects for cleaning, such as scrapers, razor blades or cutters.
- Always test detergents and cleaning dexterity in a small inconspicuous area before cleaning
- the entire panel.
- If you are using a pressure washer, avoid the spray nozzle getting too close to the panel.
- Avoid dry cleaning, as particles of sand and dust that adhere to the outside of the panels can scratch the surface.
- Any impurities on the glass surface can be carefully removed with a soft sponge or plastic spatula and water.
- Alkaline building materials such as concrete and limestone mortars need to be rinsed off very carefully
- water before the hardening phase begins.
- The washing operations must be carried out in such a way as to reduce thermal stresses to a minimum.

## PRODUCTS FOR CLEANING OR RESTORING TO BE ABSOLUTELY AVOIDED

- Organic solvents (trichlorethylene, acetone, benzene, denatured ethyl alcohol, etc.).
- Aggressive cleaning products (degreasers, sodium hydroxide, sodium hypochlorite, ammonia,
- acids, potassium silicates, fluorine salts).

- Contact with abrasives, such as sand, ash, and any type of rough or dusty dry cloth.

## INSTRUCTIONS FOR EXTRAORDINARY CLEANING AND RESTORING THE SURFACE FROM SMALL SCRATCHES

In case of small superficial scratches, the surface of Dècora Glass can be renewed using products professional such as diamond paste or glass polishing polish. It is important to use these substances gently, following the instructions for use to the letter.

If with these remedies the glass has not been restored, it is necessary to contact a professional glassmaker, who will check the recovery possibilities.

## QUALITY ASSESSMENT

The Dècora Glass slab, due to the process by which it is produced and its appearance, can at all effects be considered a laminated glass and therefore, for the analysis of the quality and any defects, yes follows the UNI EN ISO 12546.

- For inspection, the Dècora Glass sheet must be placed vertically and be observed by eye
- naked in diffuse daylight conditions or equivalent, at a distance of 1m.
- All defects that cause disturbance during observation must be marked. Any defects must be reported before processing.

**Due to its production process it is not possible to guarantee perfect alignment between the edges.**

**Deviations in the order of  $\pm 1.5$  mm must be accepted.**

## **F.A.Q.**

### **Which is the thickness of Dècora Glass Backlit?**

Dècora Glass Backlit (mostly installed on walls) has a thickness of 23,70 mm.

### **Is Dècora Glass Backlit provided with polished edge?**

Yes, Dècora Glass Backlit goes with 0,5mm polished edges with a round of 45°. When Dècora Glass panel is cut, whatever the proper instrument you are going to use (water jet or the most common instruments available on site), it is important to always polish the edge to avoid micro-breakages, invisible with the naked eye, which can expand into cracks over time.

### **Is Dècora Glass Backlit made of tempered glass?**

The standard version of Dècora Glass Backlit is made in laminated non-tempered glass.

Dècora Glass Backlit cannot be modified nor cut on site. If you have special installations requiring higher glass resistance please refer to Tecnografica technical department.

### **Can Dècora Glass Backlit be installed in wet areas?**

Please check your specific project with Tecnografica's technical department.

### **I want to install Dècora Glass near to a heat source. Is it a safe installation?**

Dècora Glass is suitable to cover areas exposed to heat, such as fireplaces or kitchens. However, keep in mind that Dècora Glass is made of glass, which is sensitive to thermal shocks. For this reason, when Dècora Glass is installed in areas exposed to heat you have to make sure that the panel won't be under thermal shocks and you have to leave proper joints between panels. Before to proceed with these particular installations please always refer to Tecnografica, in order to better evaluate the feasibility of the installation.

### **Is it possible that Dècora Glass Backlit get delaminated? Is there any risk that the two panels break off?**

No, it is not possible. The glass of Dècora Glass Backlit will not undergo delamination phenomena. The lamination process guarantees an almost everlasting duration.

### **Can Dècora Glass Backlit be cut on site?**

No.

### **Can I drill or get eyelet cuts on Dècora Glass Backlit?**

This is possible only by previously check - with Tecnografica's technical department - during the project development. It is not possible to do it directly on the construction site.

### **Can I install accessories on Dècora Glass Backlit?**

Yes, but not drilling the panel. You can install accessories with proper adhesives, but you first need to check it with Tecnografica's technical department.

### **Which materials can I use to install Dècora Glass Backlit?**

It can be installed mechanically through clip-on profiles.

### **Do I have to leave joints between Dècora Glass Backlit slabs?**

Yes, you need to apply gaskets, already provided with slabs and clip-on profiles.

### **Is Dècora Glass Backlit suitable for outdoor installations?**

Dècora Glass Backlit is a panel designed mainly for indoor installations. If you plan to use Dècora Glass Backlit outdoors, please refer to Tecnografica to evaluate the feasibility of the project.

Tecnografica can adopt special production techniques to develop Dècora Glass Backlit in order to meet the needs of the client by keeping the aesthetic characteristics unchanged even for outdoor applications..

### **Can Dècora Glass Backlit be double face?**

No, the single panel cannot be double face. However, it is possible to create a double face installation by placing one panel on the back of another, joint together with thicker clips. Tecnografica's technical department will check your specific project accordingly.



# DÈCORÀ GLASS BACKLIT

## TECHNICAL FEATURES

DÈCORÀ GLASS BACKLIT - CARATTERISTICHE TECNICHE

*Large format, backlit laminated glass decorative panel.*



Lastra decorativa retroilluminata in vetro stratificato a grande formato.

<b>Dècora Glass Backlit main features / Caratteristiche principali di Dècora Glass Backlit</b>	
Maximum Size / Dimensioni massime	148x300 cm
Total Thickness / Spessore Totale	23,7 mm
Total Weight / Peso Totale	39,20 kg/m <sup>2</sup>
Temperature range / Temperature di esercizio	-20°C +45°C

Applications / Applicazioni	Walls, wet environments, kitchens. / Pareti, ambienti umidi, cucine.
Product's Main Characteristics / Principali caratteristiche del prodotto	<ul style="list-style-type: none"> <li>Highly aesthetic image effect and depth, thanks to images being scanned with the Superscan HD system.</li> <li>Possibility of customizing the design and measurements.</li> <li>Safety glass.</li> <li>High impact resistance.</li> <li>Also available in tempered glass version.</li> <li>Altissima resa estetica e profondità, grazie ad immagini rilevate con sistema Superscan HD.</li> <li>Possibilità di personalizzazione del design e delle misure.</li> <li>Vetro di sicurezza.</li> <li>Elevata resistenza agli urti.</li> <li>Disponibile anche in versione temperata.</li> </ul>

<b>Technical features of laminated glass / Caratteristiche tecniche della lastra in vetro stratificato</b>	
Product features / Descrizione prodotto	Large format laminated glass decorative panel. / Lastra decorativa in vetro stratificato a grande formato.
Maximum Size / Dimensioni massime	148x300 cm
Dimensional tolerance / Tolleranza dimensionale	± 1,5 mm
Tolerance of orthogonality / Tolleranza di ortogonalità	<4 mm
Thickness / Spessore	8,7 mm
Weight / Peso	21 kg/m <sup>2</sup>
Materials / Materiali	Laminated glass / Vetro stratificato
Thermal expansion / Dilatazione Termica	8 · 10 <sup>-6</sup> °C <sup>-1</sup>
Thermal conductivity / Conducibilità termica	5,5 W/m <sup>2</sup> K
Surface hardness (Mohs scale) / Durezza superficiale (scala Mohs)	5,5
Impact resistance UNI EN 12600 / Resistenza agli urti UNI EN 12600	1(B)1
Burning behavior / Reazione al fuoco	B-s1, d0 according to UNI EN 13501-1 B-s1, d0 secondo UNI EN 13501-1



<b>Technical features of luminous panel / Caratteristiche tecniche del pannello luminoso</b>	
Product features / Descrizione prodotto	Luminous panels on PMMA surface with integrated LED system. Pannelli luminosi in PMMA con LED integrati.
Maximum Size / Dimensioni massime	148x300 cm
Thickness / Spessore	15 mm
Weight / Peso	18,20 kg/m <sup>2</sup>
Materials / Materiali	PMMA and Aluminium PMMA e Alluminio
Scratch resistance / Resistenza al graffio	H according to ASTM D3363:2020
Temperature range / Temperature di funzionamento	-20° C +45° C
Burning behavior / Comportamento al fuoco	B2, Class 3, TP (b) according to DIN 4102 BS 476, part 7+6 BS 2782, 508 A method. B2, Classe 3, TP (b) secondo DIN 4102 BS 476, parte 7+6 BS 2782, metodo 508 A.

Power supply / Alimentazione ingresso	100/300 V – 50/60 Hz
Energy Class / Classe Energetica	RGB: G – White: F / RGB: G – Bianca: F
Power consumption / Potenza	56 W / linear metre (referring to the height of the panel) 56 W / m lineare (si intende l'altezza del pannello)
Available LED strips color / Colore luci LED disponibili	RGB or White / RGB o Bianca
Other Information / Altre informazioni	Electric power transformer and centralized controller provided (to be quoted separately) Trasformatore e controller centralizzato forniti (quotazione a parte)

Declaration of conformity / Dichiarazione di conformità	Tecnografica S.p.A. declares that this luminous panel complies with the relevant EU directives: Low voltage: 2014/35/UE Electromagnetic compatibility: 2014/30/UE Warranty as per EU directives: 1 year Tecnografica S.p.A. dichiara che questo pannello luminoso è conforme alle direttive comunitarie inerenti: Bassa tensione: 2014/35/UE Compatibilità elettromagnetica: 2014/30/UE Garanzia legale secondo direttive UE: 1 anno
Notes / Note	Pending Patent Brevetto depositato

The data reported in this technical sheet may vary.  
The latest up-to-date technical features can be downloaded from our official website [www.tecnografica.net](http://www.tecnografica.net)  
I dati riportati in questa scheda tecnica possono subire variazioni.  
Le caratteristiche tecniche sempre aggiornate sono scaricabili dal nostro sito web ufficiale [www.tecnografica.net](http://www.tecnografica.net)





LED  
LIGHTING  
PANEL

---

INSTRUCTION  
FOR USE

***ATTACHMENT A***

Dècora Glass Backlit is a Decorative Panel with integrated lighting that combines decoration with technological LED lighting, capable of creating unprecedented scenographic effects with play on light and chromatic variations. The reduced thickness of the panel allows you to choose between wall, recessed installation, or through specific profiles, which support it even at a distance from the walls. Totally programmable and manageable via controller or Smartphone App, available as accessories, Dècora Glass Backlit boasts optimal light and colour rendering, combined with low energy consumption. The shape of the Dècora Glass Backlit support can be customized thanks to the absence of the side frame, while the uniform lighting up to the edges creates continuity between the panels and gives aesthetic completeness to the graphics. The patent filed on the lighting technology used further highlights the innovative and avant-garde nature of this decorative element.

This product complies with current national and European regulations. Company and product names are trademarks of their respective owners. All rights reserved.



**Read carefully the information contained in this USER MANUAL and keep it for consultation in case of need. Observe the safety instructions and other indications; use other than that described could result in damage to the product and other risks such as short circuits, fire, electric shock, etc.**



**Keep the original packaging label for any future requests for information or complaints**



**This USER MANUAL is published by TECNOGRAFICA Spa. All rights, including translation, are reserved- Reproduction, even partial, of any kind, such as photocopies, microfilms or storage in electronic data processing equipment, is prohibited without the written permission of TECNOGRAFICA Spa. Summary reproduction is also prohibited. Reproduction refers to the technical state at the time of printing.**

#### Contents of this USER MANUAL:

- MODELS AVAILABLE
- INTENDED USE
- WARRANTY
- COMPOSITION AND EQUIPMENT PROVIDED
- ACCESSORIES FOR CONNECTION, POWER SUPPLY, CONTROL
- TECHNICAL DATA
- INFORMATION PLACED ON THE PANEL
- INSTALLATION AND ELECTRICAL CONNECTIONS
- SAFETY INSTRUCTIONS
- MAINTENANCE AND CLEANING
- DISPOSAL

#### MODELS AVAILABLE of the Dècora Glass Backlit Decorative Panel:

Code	Maximum dimensions (cmxcm)	Weight Kg/SQM	LED type	Nominal P (W)
Dècora Glass Backlit RGB	148x300	18.2	White LED strip "DYNAMIC WHITE" 24Vdc	40/50 W/m
Dècora Glass Backlit White	148x300	18.2	RGB LED strip "DYNAMIC RGB" 24Vdc	50/56 W/m

**Note:** the size of the decorative panels can be customized according to the needs of the individual project.

#### INTENDED USE of the Dècora Glass Backlit Decorative Panel:

The **Decorative Panel with integrated lighting Dècora Glass Backlit** is a product to be installed and used in closed and dry environments.

The **Decorative Panel with integrated lighting Dècora Glass Backlit** is a product to be installed on the wall in an upright position.

#### WARRANTY

The **Decorative Panel with integrated lighting Dècora Glass Backlit** is covered by a warranty, intended as repair or replacement of components or replacement of the entire equipment, for problems such as defects or malfunctions due to incorrect manufacture or other causes clearly attributable to the work of the Manufacturer **TECNOGRAFICA Spa**.

The warranty does not apply to the repair or replacement of components damaged due to improper use or due to poor or lack of maintenance.

Any components replaced under warranty must be returned to the manufacturer **TECNOGRAFICA Spa**.

The manufacturer **TECNOGRAFICA Spa** declines all responsibility for damage caused to people or things by the improper use of the **Decorative Panel with integrated lighting Dècora Glass Backlit**.

#### COMPOSITION AND EQUIPMENT PROVIDED of the Dècora Glass Backlit Decorative Panel:

##### Structure:

The structure of the equipment (total thickness of 23.7 mm) is obtained by assembling various layers of material:

- Support panel in DIBOND®
- Main body in PLEXIGLASS® (PMMA) with housings for electrical components
- Decorative panel DÈCORÀ GLASS, in laminated glass of thickness 8.7 mm, decorated with catalogue or personalized motifs.

##### Electrical and electronic components included in the main body:

The equipment is completed by the following internal and external electrical and electronic components:

- LED strip as shown in the "MODELS" table, housed within the seat in the main body
- Electrical connections connected to the LED strip
- Free cable for the power supply line, housed in the cable compartment in the main body

#### ACCESSORIES FOR CONNECTION, POWER SUPPLY, CONTROL available for the Dècora Glass Backlit Decorative Panel:

##### Connection cables, type and sizing:

The connecting cables supplied, multipolar cables with flame and fire retardant sheath, very low emission of fumes, toxic and corrosive gases, zero halogens, CPR certified (Cca - S3, d1, a3), type FS18OR18 300/500 V, are sized for a maximum line length of 5 m, and have multiple conductors depending on the type of LED strip installed:

- no. 2 conductors (WHITE single colour strips)
- no. 4 conductors (RGB strips)

These are used to connect the power supply / controller output to the terminal block located inside the cable compartment of the Dècora Glass Backlit equipment.

##### Power and control accessories:

The following equipment is generally supplied with the Decorative Panel with integrated lighting Dècora Glass Backlit:

##### Power supply:

Power supply compatible with the installed LED strips.

**Controller:**

Controller compatible with the installed LED strips.

**Amplifier:**

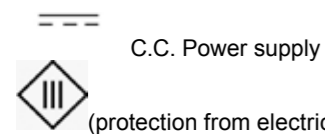
Amplifier compatible with the installed LED strips.

**TECHNICAL DATA of the Dècora Glass Backlit Decorative Panel and accessories:**

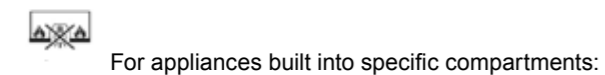
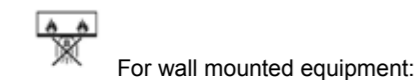
**General technical data:**

- Rated absorbed power (W): variable according to the model (see label)
- Minimum protection rating: IP20
- Installation location: clean and dry indoor environments
- Environmental conditions:
  - Temperature from -20°C to + 45°C
  - Humidity from 10% to 80%

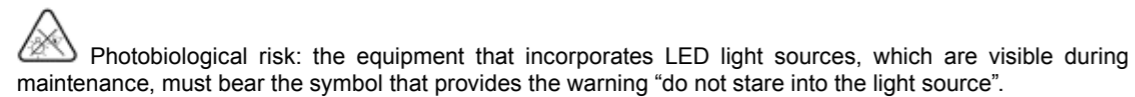
**Technical data of the Dècora Glass Backlit Decorative Panel:**



- LED characteristics (no.of LED; colour temperature; luminous flux): variable according to the model (see table)
- Expected life span: 30,000 hours
- Cable replaceability: "Y" type, the cables can only be replaced by the manufacturer, or by an authorized centre, or by similarly qualified personnel
- Cable supplied sized up to 5 M
- Adjustable: depending on the accessory equipment installed
- Dimensions and weight: variable according to the model (see table)
- Do not install on normally flammable surfaces:



Note: in any case, keep a distance of at least 5mm from the bottom of the compartment for the circulation of cooling air.



**Power supply technical data:**

- Consult the user manual and connection instructions supplied with the equipment

**Amplifier technical data:**

- Consult the user manual and connection instructions supplied with the equipment

**Controller technical data:**

- Consult the user manual and connection instructions supplied with the equipment

**INFORMATION PLACED ON THE PANEL**

The following indications are provided with each Dècora Glass Backlit Decorative Panel, near the electrical connection compartment (and are elaborated upon in this manual):

**Tecnografica**  
italian wallcoverings

CE

Dècora LED  
 Dècora Glass Backlit

Date: .....

Batch number: .....

Minimum protection rating: **IP20**

Installation location: clean and dry indoor environments.  
 Environmental conditions:  
 Temp. from -20°C to + 45°C  
 Humidity from 10% to 80%

White  RGB

This device is equipped with integrated LED strips.  
 The lamps in this product are not replaceable by untrained personnel.

ENERGY CLASS	INNOVATECH 2543	LED Lighting Solutions 75CB RGB
A	Green	Green
B	Light Green	Light Green
C	Yellow-Green	Yellow-Green
D	Yellow	Yellow
E	Orange	Orange
F	Red-Orange	Red-Orange
G	Red	Red


18 kWh/1000h (White) | 28 kWh/1000h (RGB)


2019/2015


Weight of Dècora LED: 31,5 kg/m<sup>2</sup>  
 Weight of Dècora Glass Backlit: 39,2 kg/m<sup>2</sup>

Tecnografica Italian Wallcoverings is a brand of Tecnografica S.p.A.  
 42014 Castellarano (RE), Italy  
 Via Cimabue, 13  
 Tel. +39 0536 826111  
 Fax +39 0536 826110  
 wallcoverings@tecnografica.net  
 www.tecnografica.net

**INSTALLATION AND ELECTRICAL CONNECTIONS of the Dècora Glass Backlit Decorative Panel:**

 The rear panel of the equipment must be spaced at least 5mm away from any surface to ensure proper circulation of cooling air for the LED strip and prevent overheating.

 The rear panel of the equipment must be spaced at least 5mm away from any surface to ensure proper circulation of cooling air for the LED strip and prevent overheating.

 The electrical connections, according to the connection diagrams contained in the equipment's technical data sheets compatible with the LED Strips installed such as POWER SUPPLY, CONTROLLER, AMPLIFIER, must be entrusted to qualified personnel.

**Technical Notes and recommendations for the installation and connection of LEDs on a flexible strip**

**Power and current in the led strips:**

The LED strips contained in the Decorative Panel with integrated lighting Dècora Glass Backlit are powered with low voltage 24Vdc constant voltage power supplies. The use of 24Vdc led strips reduces the voltage involved and facilitates use, especially when it is necessary to use long cables.

Cable supplied sized up to 5 M

 **Recessed equipment must be spaced at least 5mm away from any surface to ensure proper circulation of cooling air for the LED strip and prevent overheating.**

Reference table for power cable sections of 24Vdc "PRO line" LED strips" according to the power values and line length of 2.5 m for voltage drop containment within 4%

15W	0.75 mm <sup>2</sup>
35W	0.75 mm <sup>2</sup>
72W	0.75 mm <sup>2</sup>
90W	0.75 mm <sup>2</sup>
140W	0.75 mm <sup>2</sup>
176W	1.00 mm <sup>2</sup>
200W	1.00 mm <sup>2</sup>

**Strip connection:**

As described, the voltage to supply the strips is proportional to the power, by supplying a strip on one side, the total current flows through the strip on the supply side and decreases during the run up to the minimum to supply the last LEDs of the strip.

During this path (start - end LED strip) the voltage decreases due to the drop that occurs inside the strip (drop out) therefore the brightness of the end strip LEDs will be less than the brightness of the start strip LEDs. The difference with RGB strips is more evident where cold colours (green and blue) are more penalized by the decrease in voltage compared to red, therefore a dominant red will be more visible at the end of the strip. To mitigate this "defect" just connect the strips on both sides, in this way the current will be divided into 50% on both sides and only the central LEDs will have a reduction in brightness but to a minimum and acceptable extent.

For the reasons described above, we do not recommend connecting the LED strips in cascade since the defect would multiply with unacceptable results and with consequent weakening of the light produced in a short time.

**Power supply and dimming:**

The LED strips in the Dècora Glass Backlit decorative panel with integrated lighting must be powered with 24Vdc constant voltage power supplies whose maximum power output must exceed approximately 20% of that absorbed.

The LED strips can be dimmed with "PWM" pulse width modulation dimmers with various control systems: button; 0-10V; DALI; infrared remote control; single-channel or multi-channel radio remote control; WiFi connection to App on Smartphone (see controller catalogue).


**RGB and White dual colour strip command:**


The multichips, dual colour, RGB and White strips must be controlled with specific controllers for each type of strip (see controller catalogue).

**Using the RGB-A amplifier:**

Amplifiers can be used in conjunction with dimmers and controllers whenever the power of the individual controllers is not sufficient to power the system.

**SAFETY INSTRUCTIONS:**


 **Read the whole USER MANUAL as it contains important information for correct installation and operation**


 **The warranty lapses in the event of damage due to failure to comply with these instructions for use; the Manufacturer takes no responsibility for consequential damages.**


- TECNOGRAFICA Spa assumes no responsibility in the event of damage to property or persons caused by inappropriate use or failure to observe the safety instructions! In such cases, all warranty claims are void!
- For safety and certification reasons, altering the appliance independently is not allowed.
- The product must be fitted and used in a dry, closed, non-humid or wet environment. There is a danger of electric shock
- Do not use the product in environments where there may be flammable gases, vapours or dust! Explosion risk!
- The product can only be used if it is fitted permanently.
- The LED control included can only be connected with the power plug to a public power supply socket.
- The socket used for connecting the power supply must be easily accessible; alternatively, there must be an omnipolar disconnection device for the mains voltage (e.g. differential switch).
- The product cannot be exposed to extreme temperatures, direct sunlight, excessive dust, strong vibration or excessive mechanical stress.
- Do not attach anything to the panel's surface.
- Protect the power supply cable of the LED control (and also the low voltage cable between the LED control and the LED panel) from sharp edges or other mechanical interference, do not bend it.
- Caution, LED light: Do not observe directly or with optical instruments!
- If it is recognized that risk-free operation is no longer possible, the product must be taken out of service and protected against inadvertent operation.

We believe that operation is no longer possible when:

- the product is visibly damaged
- the product does not work or does not work properly (flickering light, it produces smoke or smell, audible crackle, discolouration of the product or surrounding surfaces)
- the product has been stored in unfavourable conditions
- severe transport stress

 **The Dècora Glass Backlit Decorative Panel can only be connected to the combined power supply and the LED controller, otherwise it may be damaged. In this case the warranty will be lost!**

 **Never connect the Dècora Glass Backlit Decorative Panel to a transformer for halogen lamps or the like. In this case the warranty will be lost!**

 **In case of interpretative doubts or questions that are not answered in these instructions, contact the technical office of TECNOGRAFICA Spa.**

**MAINTENANCE AND CLEANING of the Dècora Glass Backlit Decorative Panel:**

- Before cleaning, disconnect the LED control from the power supply, remove the plug from the power socket or shut down the power switch. Let the product cool down sufficiently.
- The product can only be cleaned with a clean, soft and dry cloth externally, any dust can be removed very easily using a clean, soft brush and a vacuum cleaner.
- Do not use abrasive cleaning agents, alcohol-based cleaners or other chemical solutions.
- Do not use excessive pressure on the surface of the panel, to avoid scratches.

**DISPOSAL of the Dècora Glass Backlit Decorative Panel:**



■ The product must not be disposed of with household waste. At the end of its life cycle, dispose of the product according to current regulations.

June 2023  
Giugno 2023

Tecnografica Italian Wallcoverings is a brand of Tecnografica S.p.A.  
42014 Castellarano (RE), Italy – Via Cimabue, 13  
Tel. +39 0536 826111 – Fax +39 0536 826110  
wallcoverings@tecnografica.net – www.tecnografica.net

Follow us on



/tecnograficadesign



@tecnograficaofficial



[www.tecnografica.net](http://www.tecnografica.net)