



LACOBEL MATELAC

INSTALLATION GUIDE

VERSION 7.0 – APRIL 2024

Your Dreams, Our Challenge

This version of the guide replaces and cancels all previous versions.
Please check www.agc-yourglass.com regularly for any updates.

WARNING

Carefully read this manual before cutting and installing Lacobel & Matelac products.



Important Preliminary Instructions

- Lacobel and Matelac are painted glass products for use in interior applications only. They cannot be laminated.
- For safety applications, Lacobel and Matelac glass products are available with a safety backing film applied to the painted side of the glass (SAFE+ version).
- All Lacobel and Matelac colours can be used in damp environments (kitchens, bathrooms, etc.) but should never be immersed in water.
- In humid environments, the metallic colours (Grey Metal ref 9006 EX, Aluminium Rich ref 9007 EX, , Black Starlight ref 0337 EX) require the use of a SAFE+ safety film.
- The use of Lacobel and Matelac with backlighting is not recommended, as the product is not designed for this kind of application. Please contact your local AGC agent for an alternative product for such applications.
- The thickness of the Lacobel or Matelac product must be defined on the basis of the size and shape of each panel . AGC recommends 6 mm thickness for wall cladding (panels > 1 m²). For very large panels, thicker glass may be required, according to the applicable loads.
- Do not fit glass onto walls that are not entirely clean, dry and pre-treated with a primer in case of porous surfaces. The glass has to be clean and dry and should not be immersed in water during handling or setting.
- Ensure that the paint on the rear of the glass has not been scratched during the cutting and assembly process.

For the following colours (White Pure Ref 9003 EX, White Soft Ref 9010 CL, White Pearl Ref 1013 EX, , White Traffic Ref 9016 EX,), AGC strictly recommends using transparent silicone and painting the complete wall/substrate in a uniform white colour.

- Before installation, paint the wall in the same colour of the glass on the glass junctions to avoid colour differences that might be seen through the transparent joints.
- Always use glue/silicone/tape brands recommended by AGC and follow exactly the instructions supplied by the adhesive manufacturer (particularly regarding the quantities of adhesive to be used per m²). The use of any other adhesive not validated by AGC is the sole responsibility of the user/customer. When bonding Lacobel and Matelac SAFE+ glass with silicone, it is mandatory to pre-treat the safety backing film with an activator. For gluing without activator, please contact your silicone supplier. **Please refer to the compatibility table in appendix.**
- Care should be taken with the usage of adhesives on Matelac glass as stains made on the matt surface cannot be properly removed afterwards.
- The use of safety gloves and appropriate personal protection is strongly recommended during all operations, handling and setting of the glass.

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1. INTRODUCTION

This guide sets out AGC's* recommended processing, cutting and setting methods when fitting Lacobel and Matelac glass.

Fitting painted glass is a delicate procedure. Correct installation is critical in ensuring:

- **the safety of the end user** - by preventing breakage;
- **the quality of the glass** - by preserving the paints;
- **the correct appearance of the glass** - by preventing shadows and colour variations caused by the surface to which the glass has been fitted.

Fitting large panels of Lacobel or Matelac glass is a job for professional glaziers, whereas smaller, tile formats can be fitted by tilers provided they follow the recommendations set out in this guide.

The content of this guide reflects our knowledge and experience at the time of publication. Customers and glass fitters can always contact AGC's Technical Advisory Services (TAS) for further assistance if required. The glass fitter is entirely responsible for the final application, including the installation of the glass and the compatibility between the different materials used. AGC Glass Europe accepts liability for the product it supplies and for its general sales conditions.

2. LACOBEL AND MATELAC DECORATIVE GLASS

Lacobel and Matelac are two opaque float glass ranges intended exclusively for interior use. Their opaque quality is obtained by applying high-quality paint to the rear of the glass.

The difference between the two lies in their appearance: Lacobel is reflective (paint + float) while Matelac has a satin matt finish (paint/silvering + acid-etched float).

Highly prized by the furniture industry and interior designers, these glass ranges come in a vast array of colours. Used as wall covering, they provide an interesting alternative to traditional solutions such as wallpaper and paint.

Lacobel and Matelac products cannot be laminated.

Lacobel/Matelac are painted decorative glass products for use in interior applications only.

In the case of internal partition, a DGU made of two Lacobel/Matelac panes, can be used.

Both painted surfaces will face the cavity. The temperature and relative humidity inside the building must not exceed, respectively, 30°C and 70%.

In case of doubt about the inner climatic conditions, the paint of both glass panes must be edge-deleted, in order to avoid any contact with the sealing agents. Compatible silicone sealant must be used.

Other systems of internal partition may also be used.

In all cases, type kind of application should be checked according to the applicable local building regulations.

The use of Lacobel and Matelac with backlighting is not recommended, as the product is not designed for this kind of application. Please contact your local AGC agent for an alternative product for such applications.

ORIENTATION OF THE GLASS SHEETS

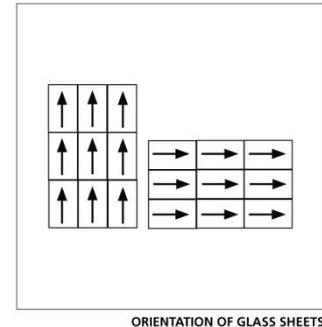
Most colours are applied isotropically. This means that the coating does not have a 'direction' or 'orientation'. This presents two advantages when installing the glass. Firstly, since the entire sheet can be used, cutting can be organised very efficiently, thus minimising waste. Secondly, during the planning and installation phase no particular care must be taken to install the glass in a particular direction.

Some colours are an exception. Due to the special pigments used for some colours, they have a specific orientation. This must be taken into consideration during planning, processing and installation.

These colours are:

Lacobel: Grey Metal ref 9006 EX, Taupe Metal ref 0627 EX, Aluminium Rich ref 9007 EX, Black Starlight ref 0337 EX

Matelac: Taupe Metal ref 0627 EX



3. SAFE+ SAFETY BACKING FILMS FOR LACOBEL AND MATELAC

Lacobel and Matelac glass products also exist in safety versions, with a plastic film (SAFE+) applied to the painted side of the glass. The film has a triple function:

1. If the glass breaks, the splinters stick to the film, thereby preventing injuries and damage.
2. It protects the paint from scratching.
3. In humid environments (such as kitchens and bathrooms), the metallic colours require the use of a SAFE+ safety film.

Lacobel/Matelac with the SAFE+ safety film comply with the type B European EN12600 safety standards.

SAFE+ is PET material = Polyethylene terephthalate

Note: If applied with glues or silicones (FIX-IN SL, etc.), the metallic colours require the use of a SAFE+ safety film.

When bonding SAFE+ glass in wall covering applications, silicone, surface activator and double-sided adhesive tape must be used. A table of recommended brands can be found in the appendix of this guide.

AGC cannot guarantee a perfectly uniform appearance of Lacobel and Matelac on the paint side when they are covered with SAFE+ film. It is therefore recommended that the product is installed in such a way that the paint side is not visible to the building's occupants and users after installation.

** In this guide, 'AGC' always refers to AGC Glass Europe.*

4. MATELAC SILVER

If you are fitting one of the four Matelac Silver glass products (Silver Clear, Silver Clearvision, Silver Grey or Silver Bronze) as a wall covering, please consult AGC's Mirox installation guide, which can be found on www.agc-yourglass.com

5. INSTALLATION GUIDE FOR GLAZIERS AND TILERS

5.1 Preparing the walls (or any other surface)

Before fitting painted glass as a wall covering, AGC recommends checking the state of the walls (or other surface) to avoid any deterioration in the paint on the back of the glass and to facilitate the setting process.



5.1.1 To prevent deterioration of the glass paint

- Apply the glass to a clean, dry surface: do not fit glass onto walls or any other surfaces that are not completely dry.
- Pre-treat porous surfaces with a primer.
- Ensure that the paint on the rear of the glass has not been scratched during the assembly process.
- Ensure that the glass is not wet or immersed in water during handling or setting.
- When fitting glass as a kitchen splash back, lay skirting above the work surface near any heat source (i.e. between the heat source – cooker, etc. – and the glass).

5.1.2 Touch-up paint

Small scratches and damages on the painted side of the glass due to handling, processing or installation can be repaired using AGC's FIX-IN TU Touch-up paint for standard colours, available at www.agc-store.com.

5.1.3 For easier installation

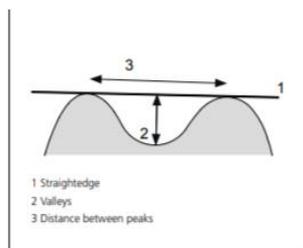
Smooth out any uneven wall or background surfaces. A smooth surface will ensure optimum adherence of the glass.

Regarding the flatness of the supporting construction :

FLATNESS OF THE WALL

Measuring the flatness and evenness of a wall (finished surface):

Use a straightedge against the wall (1) to gauge how smooth it is and to see if there are any peaks. The maximum height of peaks is limited with respect to the distance between peaks.



MEASUREMENTS OF FLATNESS

Requirements for walls, flatness	Distance between peaks (3)	Maximum depth of valley (2)
Wall surface, finished	1 m	3 mm
Wall surface, finished	4 m	8 mm
Wall surface, finished	10 m	15 mm

5.2 Damp environments

All Lacobel and Matelac colours can be used in damp environments (kitchens, bathrooms, etc.) but should never be immersed in water.

In damp and/or humid environments, the metallic colours (Grey Metal ref 9006 EX, Aluminium Rich ref 9007 EX, Taupe Metal ref 0627 EX and Black Starlight ref 0337 EX) require the use of a SAFE+ safety film.

The glass must be protected to prevent water from penetrating behind it: see list of recommended sealing brands on pages 11 and 12. Ensure that the damp area is properly ventilated to prevent water accumulation on the glass.

5.3. Special cuts

5.3.1 General recommendations

Special cuts are sometimes required to avoid 'obstacles' on walls such as electrical sockets and water/air outlet pipes.

If the glass panels are too big to be processed on site, ask your glazier to do the necessary cutting in the workshop.

Small tile formats: the cutting can be done by your tiler. This chapter describes the different types of cut-outs that are possible and the tools required.

The use of safety gloves and appropriate footwear is strongly recommended.

Measuring

Regardless of the format of the glass, whether large panels or tile-size, precise measurements must be taken. Near pipes and sockets, the diameter of the cut glass should be 1cm larger than the original measurement.

Recommended thickness

The thickness of the Lacobel or Matelac product must be defined on the basis of the size and shape of each panel. AGC recommends 6mm thickness for wall cladding (panel > 1 m²). For very large panels, thicker glass may be required.

Tools

Before starting, read the manufacturer's instructions on how to use the different cutting tools.

Work on a stable cutting table with a felt cutting mat.

Ensure that the cutting table will not scratch the glass.

To prevent injuries, lightly sand the edges of the cut glass.

To prevent the glass from breaking, do not press too heavily on it when fitting around holes.

5.3.2 Cutting Advice

AGC advises using the following cutting wheels to successfully cut the glass with SAFE+ film through the film side:

Cutting wheel	Angle	Thickness (mm)	
B0 03A100M	100	3-4	
B0 03A110M	110	4-5	
B0 03A115M	115	5-6	
Cutting wheel including plastic holder			
B0 416A100M	100	3-4	
B0 416A110M	110	4-5	
B0 416A115M	115	5-6	

<http://www.bohle-group.com/shop/ or www.agc-store.com>

When starting, cut slowly and build up pressure until you achieve a good cut.

Use ACECUT 5503 cutting oil or equivalent. To cut patterned glass, lower the cutting speed.

Correct cutting settings can differ from one cutting installation to another and can be tested by cutting test strips 100mm wide and at least 1m long. It should be possible to break the cut strips by hand.

The above-mentioned cutting wheels can also be used to cut non-painted glass without a SAFE+ film.

**AGC provides this information for advisory purposes.
The user/customer is solely responsible for using this advice.**

5.3.3 International Bohle contacts

Please consult the following website to find the nearest office to you:

<http://www.bohle-group.com/shop/>

5.4 Fitting glass onto the wall

There are two ways of fitting Lacobel and Matelac glass onto the wall:

- The bonding method, using:
 - tile adhesive
 - silicone
 - adhesive tape
- The mechanical method, using screws, metal clips or fixing the glass directly into a frame.



Special note for splashbacks

Non-tempered glass can break if there is a temperature difference of 30°C or more on the same sheet of glass. For instance, a hot cooking vessel that touches the glass could cause it to break.

If the hob is positioned near the splash back, the best and safest way to avoid thermal breakage is to position another piece of material right behind the hob, up to the same height as the cooking vessels (approximately 10 to 15cm), so as to prevent the cooking vessels from touching the Lacobel splash-back. This additional piece is often made of the same material used for the worktop. Another possible solution is to place a small piece of transparent tempered glass in front of the Lacobel.

5.4.1 Bonding method

General recommendations

If you opt for the bonding method, you should use the adhesive best-suited to your type of glass (with or without SAFE+ backing film) and the level of safety required due to the size of the glass. According to the local regulation in force, setting blocks will be used to support the glass weight and to avoid a long-term shearing stress of the glue.

Adhesive tapes can also be used for bonding Lacobel or Matelac SAFE+ glass products. However, unlike with tile adhesives and silicones, it is not possible to adjust the glass when setting.

As a general rule, companies that choose to install our products without using FIX-IN must themselves check the adhesion and compatibility of the products they are using.

Important

Under the trade name FIX-IN, AGC has developed its own range of high-performance and easy-to-use adhesive products for the professional installation of both Lacobel and Matelac, SAFE+ versions included.

Based on a formula exclusively made for AGC, the perfect compatibility between FIX-IN components prevents corrosive damage to the paint on the back of AGC's glass.

More than a standard set of adhesive components, FIX-IN is a system solution ensuring a professional finish and is supported by a 5-year warranty ⁽¹⁾.

For more detailed instructions, please refer to the FIX-IN Installation Guide available on www.agc-yourglass.com.

AGC has identified other adhesives compatible with AGC's painted glass ⁽²⁾ for which you are kindly suggested to refer to the instructions and warranties supplied by the adhesive manufacturer.

(1) against paint discoloration, peeling or cracking.

(2) see lists on following pages

5.4.2 Silicone

Silicone can be used with both Lacobel and Matelac, including the SAFE+ version. Installer is responsible for any gluing evaluation tests that may be required by local building regulations.

RECOMMENDATIONS FOR USE

- AGC recommends painting the entire wall in a **uniform white colour** to ensure a uniform glass appearance after installation.
- Always refer to the adhesive manufacturer's instructions about compatibility with the substrate. When using silicone on a SAFE+ version, AGC strictly recommends also using double-sided adhesive tape to maintain the glass during the drying time of the silicone (see chapter 5.4.4 for adhesive tape selection).
- Before starting, read the recommendations for use supplied by the silicone manufacturer (particularly regarding the quantities of silicone to be used per m²). Please refer to the Fix-In application guide available on www.agc-yourglass.com
- When mounting Lacobel or Matelac, always apply double-sided tape and glue or silicone in vertical strips while ensuring that air can circulate between the back of the painted glass and the substrate.
- For the following colours (White Pure Ref 9003 EX, White Soft Ref 9010 CL, White Pearl Ref 1013 EX, , White Traffic Ref 9016 EX,), AGC strictly recommends using transparent silicone and painting the complete wall/substrate in a uniform white colour.
- When fitting lighter colours using silicone and double-sided tape, it is important to ensure that light cannot penetrate through the sides of the glass as this could cause shadows from the adhesive strips to show through on the front.
- Care should be taken with the use of silicone on Matelac glass as stains made on the matt surface cannot be properly removed afterwards.

If the above-mentioned recommendations for use are followed, any traces of silicone visible through the glass will disappear as the silicone dries. Please refer to the drying time of the type of silicone used (this varies from one brand to another).

Regarding the compatibility between the Lacobel/Matelac and the fixing agents, please refer to the table in appendix of this document.

When bonding SAFE+ Lacobel and Matelac glass with silicone, the safety backing film must be pre-treated with a surface activator and recommended one must be used. For gluing without activator, please contact your silicone supplier.

5.4.3 Tile adhesive

This type of adhesive can be used with Lacobel, but not with the SAFE+ version of these glass products. Tile adhesive exists as both cement glue and dispersion glue. Cement glue must be used in places where fire regulations are in force. Always refer to the adhesive manufacturer's instructions about compatibility with the substrate.

Regarding the compatibility between the Lacobel/Matelac and the fixing agents, please refer to the table in appendix of this document.

RECOMMENDATIONS FOR USE

- Tile adhesive must be applied uniformly to the surface to be covered and on the back of the glass (particularly around the edges).
- Before starting, read the recommendations for use supplied by the tile adhesive manufacturer (particularly regarding the quantities of glue to be used per m²). Care should be taken with the usage of tile adhesives on Matelac glass as stains made on the matt surface cannot be properly removed afterwards.

5.4.4 Adhesive tape

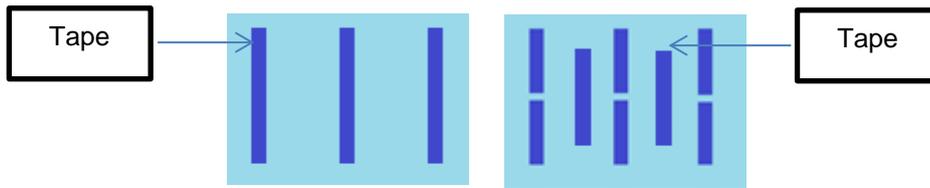
Standard Lacobel and Matelac glass products can be bonded using adhesive tape. In such cases, AGC recommends using the SAFE+ version for safety reasons, especially when the glass is used as a wall covering.

RECOMMENDATIONS FOR USE

- AGC recommends painting the entire wall in a uniform white colour to ensure a uniform glass appearance after installation.
- For the following colours (White Pure Ref 9003 EX, White Soft Ref 9010 CL, White Pearl Ref 1013 EX, , White Traffic Ref 9016 EX,), AGC strictly recommends using transparent silicone and painting the complete wall/substrate in a uniform white colour. using adhesive vertical strips, it is important to ensure that light cannot penetrate through the sides of the glass as this could cause shadows from the adhesive strips to show up on the front.
- Always use a large quantity of adhesive and follow the manufacturer's instructions.

The amount of adhesive tape required will depend on the type of tape being used and the weight of the Lacobel or Matelac. The table below shows the weight per m² for different thicknesses of glass:

Thickness of Lacobel or Matelac glass	Weight of glass/m ²
3mm	7.5kg
4mm	10kg
5mm	12.5kg
6mm	15kg
8mm	20kg



AGC recommends using at least ten 10mm x 100mm strips per 10kg of painted glass and applying several smaller pieces rather than one single length (as indicated on the right in the above illustration).

5.4.5 Joints

Sealing the joints prevents water from penetrating to the rear of the glass and is absolutely vital in damp environments.

Joints should be 3mm thick.

Recommended brands for tile glass formats are:

- 706WD (Eurocol)
- Ultracolor Plus (Mapei)

For large glass panels, the recommended brands are the same as the silicones recommended for bonding.

5.4.6 Mechanical fitting

If using a frame to fit your glass, you should:

- use blocks and spacers to prevent contact with the frame;
- avoid contact between the Lacobel/Matelac and hard and/or brittle substances such as metals and porcelain.

This type of fitting is recommended for ceilings (SAFE+).

Using metal clips and/or screws

If using metal clips and/or screws to fit your glass, you should:

- insert a foam spacer between the clip and the glass;
- avoid contact between the Lacobel/Matelac and hard and/or brittle substances such as metals and porcelain.

5.4.7 Recommendations: before fitting the glass onto the wall (or any other surface)

Topic	Tips
<p>Preparing the walls</p>	Even out walls for a flat supporting structure
	Dry, clean surface
	Pre-treat porous surfaces with the relevant primer
	Ensure the substrate has a uniform (white) colour to ensure uniform appearance after installation
<p>Damp environment (kitchen, bathroom)</p>	Joints must be sealed to prevent water from penetrating behind the glass. A periodic check of the joints should be performed, in order to prevent moisture penetration.
	Ventilate the area regularly to prevent water from accumulating on glass
<p>Cutting near pipes, plugs, etc.</p>	Take precise measurements and make 1cm larger than original measurement
	For large glass panels and SAFE+ glass: have special cuts performed by a professional glazier
	For small tile formats: can be done by glazier or tiler
	Before starting, read manufacturer's instructions for using the different tools
	Work on a clean (felt-covered) cutting table
	Execute edge-working (with sand paper or by using specific edge-working tool)
<p>Recommended thickness</p>	Depending on the size and shape of the glass. 6mm is recommended for wall covering. For very large panels, thicker glass may be required.

5.4.8 Recommendations: when fitting the glass onto the wall (or any other surface)

Topic	Tips
Water resistance	All Lacobel colours can be used in wet/humid areas (bathrooms and kitchens) but cannot be immersed in water.
	The metallic colours Grey Metal ref 9006 EX, Aluminium Rich ref 9007 EX, Black Starlight ref 0337 EX and Taupe Metal ref 0627 EX must be used with a SAFE+ backing film when fitted to any wall and when used in wet/humid areas and when applied with glues or silicones (FIX-IN SL, etc. For bonding, use silicones and/or tapes that are compatible with the SAFE+ film (see summary table of recommended brands).
	Lacobel must be protected from any water infiltrating at the back of the glass (use silicones for joints).
All adhesives	Before starting, read the instructions supplied by the adhesive manufacturers
	Respect the brand, type and colour of adhesive advised.
Tile adhesive	Do not use with SAFE+
	Must be applied uniformly to the surface to be covered and on the back of the glass
Silicones	Recommended with activator for bonding SAFE+ glass
	Respect the brand, type and colour of adhesive advised, respect silicone manufacturer's recommendations.
	Transparent silicones are recommended for certain light colours
Adhesive tape	Can be used for fitting all Lacobel and Matelac products including SAFE+ glass
Lacobel and Matelac SAFE+	For bonding, it is preferable to use silicone (or in some cases adhesive tape)
	When bonding with silicone, back of the plastic film must be treated by an activator. For gluing without activator, please contact your silicone supplier.
Fitting using a frame or clip	Insert non-metal spacers between the frame or clip and the glass.
	Avoid contact between the glass and hard substances (porcelain, metals, etc.)
Fitting using screws	Possible, but should be avoided
Joints	Joint sealing recommended to prevent water penetration

UV resistance: the colours are fixed during the production process (no discolouring possible)

6. APPENDIX

6.1 Glue Table

				Compatibility Glues /Tiles				Tile adhesive		Adhesive Tape
Type	-	-		Oxime	Oxime	Alcoxy	Alcoxy	Dispersion	Dispersion	Rubber
Manufacturer	-	-		DL chemicals	Soudal	Dow	AGC	MAPEI	DESVRES	AGC
Product	-	-		Parasilico AM 85-1	Silirub 2	DC817	FIX-IN SL	Ultramastic III	Cermifix HP	FIX-IN AT
Brand	Colour	REF								
Lacobel	Aluminium Rich *	9007 EX		✗	✗	✗	✗	✗	✗	✗
Lacobel	Anthracite Authentic	7016 TR		✓	✓	✓	✓	✓	✓	✓
Lacobel	Beige Light	1015 TR		✓	✓	✓	✓	✓	✓	✓
Lacobel	Black Classic	9005 CL		✓	✓	✓	✓	✓	✓	✓
Lacobel	Black Starlight *	0337 EX		✗	✗	✗	✗	✗	✗	✗
Lacobel	Blue Shadow	7000 EX		✓	✓	✓	✓	✓	✓	✓
Lacobel	Brown Light	1236 TR		✓	✓	✓	✓	✓	✓	✓
Lacobel	Grey Classic	7035 TR		✓	✓	✓	✓	✓	✓	✓
Lacobel	Grey Metal *	9006 EX		✗	✗	✗	✗	✗	✗	✗
Lacobel	White Pearl	1013 EX		✓	✓	✓	✓	✓	✓	✓
Lacobel	White Pure	9003 EX		✓	✓	✓	✓	✓	✓	✓
Lacobel	White Soft	9010 CL		✓	✓	✓	✓	✓	✓	✓
Lacobel	White Traffic	9016 EX		✓	✓	✓	✓	✓	✓	✓

				Compatibility Glues /Tiles				Tile adhesive		Adhesive Tape
Type	-	-		Oxime	Oxime	Alcoxy	Alcoxy	Dispersion	Dispersion	Rubber
Manufacturer	-	-		DL chemicals	Soudal	Dow	AGC	MAPEI	DESVRES	AGC
Product	-	-		Parasilico AM 85-1	Silirub 2	DC817	FIX-IN SL	Ultramastic III	Cermifix HP	FIX-IN AT
Brand	Colour	REF								
Matelac	Black Classic	9005 CL		<input checked="" type="checkbox"/>						
Matelac	Silver Bronze	EX		<input checked="" type="checkbox"/>						
Matelac	Silver Clear	TR		<input checked="" type="checkbox"/>						
Matelac	Silver Clearvision	EX		<input checked="" type="checkbox"/>						
Matelac	Silver Grey	EX		<input checked="" type="checkbox"/>						
Matelac	White Pearl	1013 EX		<input checked="" type="checkbox"/>						
Matelac	White Pure	9003 EX		<input checked="" type="checkbox"/>						

General remarks*Always use a SAFE+ film for these product references.

Always use glue/silicone/tape brands recommended by AGC and carefully follow the instructions supplied by the adhesive manufacturer (particularly regarding the quantities of adhesive to be used per m²). The use of any other adhesive is not validated by AGC and is the sole responsibility of the user/customer.

AGC's responsibility is limited to Fix-IN range of products, information given in this guide about any other sealant or cement joint is purely indicative.

For the following colours (White Pure Ref 9003 EX, White Soft Ref 9010 CL, White Pearl Ref 1013 EX, , White Traffic Ref 9016 EX, AGC recommends using transparent silicone and painting the entire wall/substrate in a uniform white colour.