

Consumer information

Technical guide



XLIGHT Bonded façades

butech building system

XLIGHT Bonded façades • Placement guide



1. General recommendations.

XLIGHT placement in façades requires qualified personnel. It is only recommended to use professionals with proven experience in this type of work.

Check the information in data sheets or packaging before using any product. Follow the manufacturer's recommendations. Using the appropriate tools for each type of work is essential.

Comply with occupational safety regulations.



2. Façade design.

Choose XLIGHT slabs on polystyrene board, such as **concept XLIGHT panel**.

Designing the building façade taking into account the size and arrangement of the chosen slab. Determine type and color of placement joints, movement joints, and perimeter joints. Placement joints shall be of at least 12 mm.

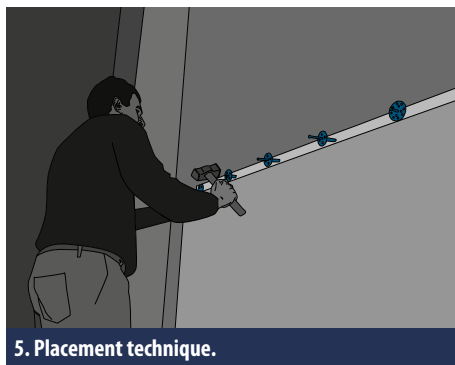
We recommend covering the top of the façade with a trim that prevents water seepage.



3. Preparing the substrate.

Check that the base or placement substrate is stable, non-deformable, and with no risk of cracking. The base cannot have deviations equal to or greater than 3 mm per meter vertically, and equal to or greater than 5 mm horizontally.

We recommend making a regularization layer with mortar plus latex, **unicem** type. The placement surface must meet the suitable characteristics for placing ceramic: clean, dry, compact, and flat.

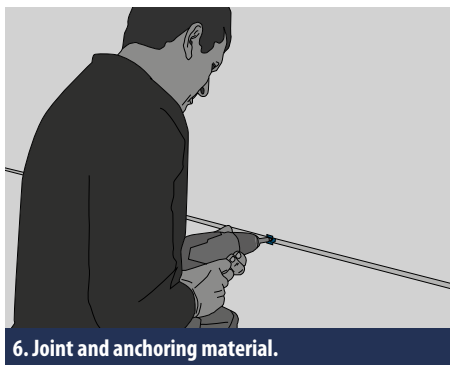


5. Placement technique.

Place the wall tiles with the thin-bed, double bonding method. Apply the adhesive with the trowel, in the same direction on base and slab.

Control the adhesive wettability, pressing the slab on the bonding material, and check that the latter makes a correct contact with the slab back. Use the **XLIGHT rubber trowel**.

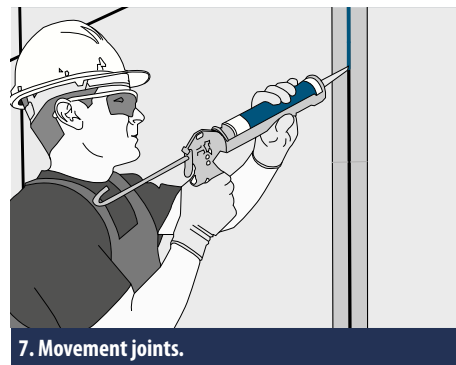
Anchor the **concept XLIGHT** slabs mechanically to the support, and fit the tongue and groove piece joints.



6. Joint and anchoring material.

Use waterproof joint materials, with high adhesion and chemical resistance. Although there are cement-based materials that have these characteristics, as a general rule, epoxy R putty, **epotech aqua** type is recommended.

Apply the joint material with a rubber trowel, avoiding the formation of bubbles, cracks, or gaps. Do not let the joint material harden on the ceramic, clean when it starts to dry. Do not soak the joint with excess water. Given the intended use, we recommend placing the ceramic with anchors **mechanical safety anchors**.



7. Movement joints.

Heed the structural joints present in floor slabs.

Make the movement joints following the instructions of the construction technician. In general, do not design areas exceeding 25 m². Minimum width, 8 mm.

There will be perimeter joints in corners, floor level changes, and changes of material; minimum width: 8 mm.

Recommended materials.

Preparing the substrate.

concept XLIGHT panels.

3 mm XLIGHT stoneware porcelain tiles, chemically bonded to high-density expanded polystyrene boards, prepared for placing as outdoor ceramic wall covering.

Available in polystyrene thickness starting from 50 mm, and with 1,008 x 3,008 mm format. The polystyrene boards have a tongue and groove joint of 100 mm which makes it possible to avoid thermal bridges when fitting the pieces.

Characteristics:

Placeable on slightly irregular supports.

Low thermal conductivity coefficient. Excellent thermal insulation.

Quick and easy placement in comparison to standard XLIGHT slabs.

Bonding material.

one flex + unilax

High-performance cement-based adhesive, suitable for placing all references from the PORCELANOSA, VENIS, and URBATEK catalogs. Mixed with unilax **unilax**, it reaches the maximum level of adherence and deformability.

Characteristics:

Excellent adherence, greater than 10 kg/cm².

Optimal workability. Thixotropic.

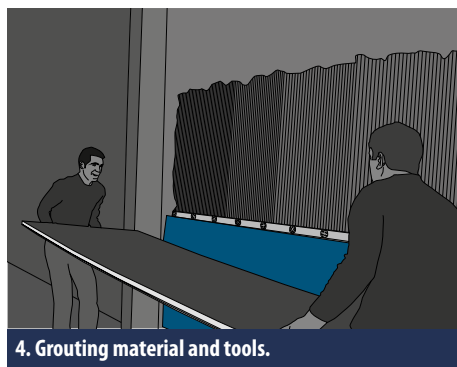
Fine particle size.

Certifications/Standards:

EN 12004

C2 TE S2




4. Grouting material and tools.

Use improved deformable cement-based adhesives C2 TE S2, **one-flex** type mixed with **unilax**. The use of fine particle adhesives with high wettability is recommended.

Follow manufacturer recommendations in the preparation and use of adhesives. Do not apply adhesive with a final thickness greater than that indicated on the bag.

The use of XLIGHT specific tools for handling and cutting large-format pieces is recommended.


8. Cleaning and maintenance.

Protect the façade from adverse weather conditions and other construction works that might damage it.

Efflorescences arise naturally from any mortar containing Portland cement, so it is recommended to avoid that type of mortar.

Use cleaning products that are compatible with the tile's chemical resistance.

XLIGHT Tools.

Handling, cutting, and placement of XLIGHT ceramic requires special tools. These tools are designed for pieces with a format of up to 3,000 x 1,000 mm and thickness of little more than 3 mm. The essential tools for placing XLIGHT ceramic are the following:

XLIGHT Frame / carrier.

Aluminum structure of up to 300 cm long, equipped with suction cups for moving large-format pieces.

Cutting guide plus XLIGHT pincers.

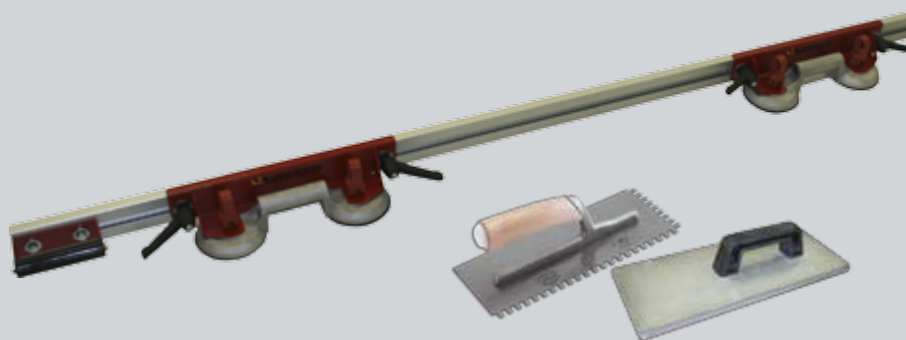
Tool for cutting XLIGHT ceramic straight, plus pincers for separating marked pieces. It includes diamond point.

Notched trowel and XLIGHT rubber trowel.

Notched trowel with 10 mm sloped serrations which facilitates uniform spreading of the adhesive, plus rubber trowel for pressing XLIGHT ceramic on adhesive.

In addition to using the appropriate tool, the following handling instructions are recommended:

- Use protective gloves.
- Handle the slabs in groups of at least two people.
- Plan any movement before carrying it out.
- Avoid rough movements.
- Avoid bending the slabs by the middle.
- Protect corners with plastic corner protectors.
- Transport slabs perpendicular to the ground.
- Do not stand slabs directly on the floor. Place the long side over soft material strips (wood or styrofoam) and stand the short side of the slab on a firm support.
- Before stacking the slabs, clean off any element that may scratch the surface.



XLIGHT Carrier.

Notched trowel and XLIGHT rubber trowel.



Cutting guide plus XLIGHT pincers.

Joint material.

epotech aqua

New line of epoxy putty for grouting tile joints. Specially recommended for application on mosaics and ceramic tiles with relief.

Characteristics

Easy to apply and clean. This product is free of organic solvents and plasticizers.
Excellent joint color stability.
Resistance to most chemicals and alkali, even in high concentrations.
Waterproof joint, no water absorption.
Tile joints up to 12 mm.



Accessories.

Bonded façade anchors

Non-concealed anchors for boards that cannot undergo side machining as XLIGHT. They are placed after positioning the façade, and prevent the detachment of the XLIGHT slab from the polystyrene base.

Stainless steel, ANSI 304 type anchors, for placement joints at least 12 mm wide.

Type 1500. Middle side, non-concealed anchor. It holds 2 contiguous row pieces.

Type 1200. Middle side, concealed anchor. It holds 4 contiguous row pieces.

p-404

Polyurethane-based sealant putty. It polymerizes in contact with environmental moisture, forming an extraordinarily elastic and adhesive elastomer.

Characteristics:

Excellent chemical resistance.
Low elasticity modulus.



Materials table **butech**®

KEA	SAP	Product description	Packaging	Performance* 300 x 100 cm
B51604002	100004379	unicem	20 kg can	150 g/m ²
B12903004	100004234	one-flex blanco n	25 kg bag	6 kg/m ²
B51601002	100004376	unilax	20 kg can	2.6 kg/m ²
B42562016	100090692	epotech aqua antracita	3.6 kg can	130 g/m ²
B42562017	100090693	epotech aqua beige	3.6 kg can	130 g/m ²
B42562020	100090694	epotech aqua blanco	3.6 kg can	130 g/m ²
B42562018	100090695	epotech aqua cherry	3.6 kg can	130 g/m ²
B42562019	100090696	epotech aqua gris	3.6 kg can	130 g/m ²
B41061004	100116037	epotech aqua marfil	3.6 kg can	130 g/m ²
B80222003	100005747	fonotaco 70 mm	200 unit bag	2,75 unit/m ²
B80222004	100005748	fonotaco 90 mm	200 unit bag	2,75 unit/m ²
B80107012	100005739	grapa fijador s/lacar ref 1200	50 unit bag	1,0 unit/m ²
B80107013	100005740	grapa fijador s/lacar ref 1500	50 unit bag	0,35 unit/m ²
B82401001	100005818	p-404 blanco	310 ml cartridge	4,3 m/ cartridge
B82401002	100005819	p-404 transparente	310 ml cartridge	4,3 m/ cartridge
B82401003	100005820	p-404 gris	310 ml cartridge	4,3 m/ cartridge

*** Conditions:**

Laboratory obtained data. They may vary depending on the state of the base and the placement conditions.

10 mm Screed layer thickness.

Adhesive layer thickness 4.5 – 5.5 mm.

Tiling joint width 12 mm.

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Más información:

Carretera Vila-real - Puebla de Arenoso (CV-20) km 2,5
12540 Vila-real, Castellón, España

Teléfono (+34) 964 53 62 00

<http://www.butech.es>
butech@butech.es