
APPLICATION ADVICE

wall tiles



A
CIMENTEIRA
DO
LOURO

GENERAL PRECAUTIONS

wall tiles

RECEPTION AND CONTROL OF PRODUCTS

Check the conformity of products before installation (colour differences, fragments, etc). Any complaints about the appearance, colour, dimensions or visible defects in the product should be made before local application.

The wall tiles are carefully packed in boxes.

The wall tiles should remain in its original packaging until the installation or stored in a dry place, in a vertical position. This will prevent fissures and colour differences between the humid and dry pieces of the same series. It's advised to leave the boxes always well closed.

Handle the pieces with care to prevent scratches on the products.

For best results, mix and match pieces from different pallets.

These wall tiles are manufactured from granules of natural stone, which can present slight variations of tones and colour nuances. This cannot, in any case, give rise to a claim.

For the same reason, it must be purchased in the same request the total amount of necessary pieces for the completion of the project/work. To prevent further orders from different lots, it is recommended a purchase of 5% extra.

Be careful not to stain the coatings. Do not let concrete remain on wall tiles, remove waste immediately with a soft brush.

Protect products already placed while the work is still in progress.

EFFLORESCENCE

The appearance of white stains on the surface of the coatings is a natural and technically unavoidable phenomenon called efflorescence, which we can find in certain drying conditions, especially in cement-based floors. These do not alter the intrinsic quality of the pavement and tend to disappear over time after being exposed to natural weathering. The appearance of efflorescence cannot be in any case cause for complaint and shall not give rise to any type of compensation or replacement of the goods and cannot be given as a guarantee by our company.

For gluing the pieces, we recommend the use of polyurethane-based glue, thus eliminating the contribution to possible efflorescence.

WEIGHT AND DIMENSIONS

The weight and dimensions given in our tables and catalogues are nominal values.

They may vary slightly, depending on the characteristics of natural materials and manufacturing processes.

INDOOR / OUTDOOR APPLICATION

See the tables on pages 03 and 04.

INDICAÇÕES GERAIS

wall tiles

– COLOURS AND TEXTURES

These products are manufactured from natural stone granulates that may present slight shade variations, depending on the type of manufacture and supply. The texture and colour tests require the products to be dry. Over time, the colours may suffer some technically inevitable natural changes. At the end of the coating application, it is advisable to use a repellent from our range of surface treatment products, to ensure the durability of the material.

Slight variations may be found in the granulometry and tones of the products, resulting from the characteristics of the materials and the printing of the photographs.

The Natural wall covering presents variations on the surface of each piece, as well as between different pieces. No piece of natural wall tiles is the same as the other, just as it is not the same as the sample. The surface of the concrete may also present indentations caused by air bubbles. These are natural properties of concrete.

The colours in this catalogue are only representative of the product colours.

– WALL TILES APPEARANCE

The wall tiles, when packaged in cardboard boxes, Cause retention of the moisture released by the concrete. Due to this confined environment the colour of the wall tile may intensify.

After applying the wall tiles, the colour may take some time to define/lighten, depending on the internal or external environment.

– MAINTENANCE

The contact with the environment (pollen, dust, leaves and plants, the presence of minerals in the soil, etc.) can cause stains on the surface of the coatings. Cleaning should always be done with low pressure water and a soft brush.

It is strictly forbidden to use acid or alkaline products, solvents or others which deteriorate the concrete as these may cause irreparable damage to wall tiles. Don't use metal objects to remove waste on the tiles.

Any stain or debris that falls on the coating must be cleaned right away.

For increased durability of the wall tiles it is advised to use water repellent.

– COMPLAINTS

It is recommended to check the conformity of products before installation.

Any complaint about the appearance, colour, dimensions or visible defects in the product will not be accepted after the installation of the same. In all cases, the guarantee is limited to the replacement of products recognized as defective, excluding the application values.



– EXTERNAL THERMAL INSULATION COMPOSITE SYSTEM (ETICS)

Application on ETICS is possible. However, when approaching the company responsible for the application of the ETICS, the wall tiles to be applied must be indicated immediately, so that the ETICS is predisposed for the placement of said wall tiles.



NATURAL LINE

wall tiles

MODEL	 RECOMMENDED FOR INTERIOR	 RECOMMENDED FOR EXTERIOR
Siena	All colours.	All colours.
Royal		
Luna		
Orion		
Vénus		
Marte		
Teira		
Nisa		
Caster		
Stone Cork		
Cementbrick		
Ardos		
Bergo		

DESIGN LINE

wall tiles

MODEL	RECOMMENDED FOR INTERIOR	RECOMMENDED FOR EXTERIOR
Marmobrick S	All finishes.	All finishes.
Marmobrick GR		
Concrestrip		
Hando Plus		
JAPA Concrete		
Vértices	All colours with Painted, Natural (N) and Hammered (GR) finishes.	All colours with Natural (N) and Hammered (GR) finish.
Hando		
Prisma		
Wave		
Capitoné		
Leaf		
	All colours with Painted, and Natural (N) finish.	All colours with Natural (N) finish.
Riscado		
Riscado Plus		
Cubus		
Squama		
Slope		
Hexa		
Materio		

For the exterior, we recommend the application of wall tiles with a Natural or hammered finish. If you want the Painted finish, we suggest applying the Natural finish, which should be painted after its application on site.

If it is necessary to make cuts in the pieces, after completing the application, we recommend painting the entire wall covering.

In Painted material, the use of any type of adhesive tape should be avoided, as there is a risk of the paint detaching.

PREPARATION OF THE INSTALLATION SURFACE

For better results, the installation surface should be thoroughly examined before placing the pieces. A key factor is the consistency of the installation surface since it must support a weight of approximately 50 kg/m². A Cimenteira do Louro's wall coverings can be applied in several kinds of surfaces/supports. A pre-installation preparation is needed according to the following advices:

BRICK OR OTHER MASONRY SURFACED

Level the surface and remove any burrs or dried mortar remains of the masonry.

SURFACES WEAKENED THROUGHOUT TIME

Sand the surface, removing all the pieces that are about to peel off. Use a broom to clean and then do a primary treatment to the installation surface because of its porosity.

In severe cases, clean with a high-pressure water spurt and then attach a fiberglass.

MINERAL SURFACES, NATURAL STONE, STUCCO OR PLASTER

Apply a layer of primary to reduce water absorption. Check if the surface has the consistency needed to support the coating installation with a weight of approximately 50 kg/m².

INTERIOR GYPSUM SURFACES

The Portland cement-based products are not suitable to be glued into gypsum surfaces. These types of cement and gypsum are not chemically compatible in the presence of moisture, causing reactions that may lead to the detachment of the coating or to the accelerated degradation of the gypsum. There are countless gypsum-based materials that work as gluing surfaces, such as board panels, blocks or even designed gypsum, each with different properties, like water absorption, flexibility and surface resistance. Therefore, it is recommended the use of adhesive pastes or other glues whose binder is different from the Portland cement.

PAINTED OR VARNISHED SURFACES

Start by removing the paint or varnish by sanding or scraping. If it is particularly difficult to remove it, a fiberglass can be applied. Either way, wipe the surface with a water spurt and then level it with adhesive cement and apply the pieces.

REINFORCED CONCRETE SURFACES (FORMWORK)

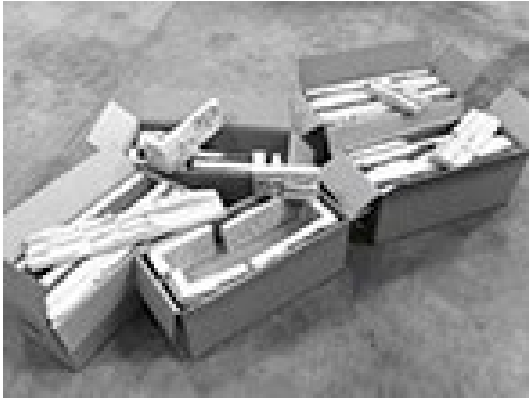
Remove the grease layer used in the release agents in the formwork of the reinforced concrete using a high pressure water spurt.

METAL AND WOOD WALLS

Cover the surface with asphalt felt (waterproof) and apply a fiberglass.

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1

For better results, mix and match stones from different boxes. Do not randomly place the pieces, open the different boxes and arrange the pieces in the installation surface for a more harmonious effect.



2

Clean the surface of any chemical agents that may interfere with the adhesion of the cement. Check if the installation surface is leveled and if it can support a weight of approximately 50 kg/m². In outdoor applications, a capstone must be applied in the top of the surface, to protect the wall from future water infiltrations and thus ensure that the application does not suffer detachments and chemical reactions with the adhesive cement.



3

Remove all traces of dust or other dirt from the backs of the pieces with a plastic brush and clean all remaining burrs with a trowel or similar tool for a perfect alignment in the placement of the pieces.

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4

Use a notched trowel to spread and level the glue(1) on the wall to achieve perfect adhesion.



5

It is recommended the use of adhesive cement of identical tone to the piece being installed to guarantee a perfect application. Always use double gluing and start the application from the bottom up. In order to ensure the total filling of the piece, the adhesive cement must be spread on the inside face and it must be done perpendicularly to the glue on the support.



6

If the wall has corners, always start from them to avoid adjustments at the end of the installation. For a perfect application of the pieces, crush the adhesive cement strands by pressuring the piece while simultaneously doing horizontal movements. It does not require any kind of tool.

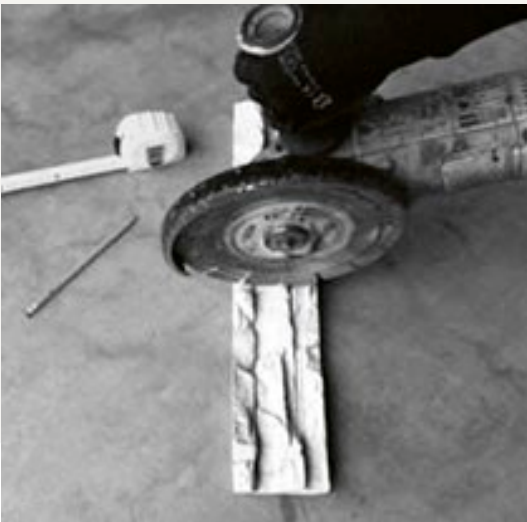
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7

Verify the levels every two or three rows to guarantee the alignment of the pieces. During application, it is appropriate to randomly raise some pieces to see if the adhesive cement strands are well crushed and if the inside of the piece is completely filled with adhesive cement.



8

When gluing a piece, always check whether there are remains or stains/fingertips on the exposed face of the piece and, if so, immediately remove them before the adhesive cement fully sticks. The cleaning must be done with a soft brush, using only water, never detergents. To do adjustments, cut the pieces using a small diamond cutting disc or a cutting table.

(1)

To make the collage, we suggest to:

Interior – Flexible glue (C2TE) or high-performance flexible glue with reduced slip (C2TES1);

Exterior – High-performance, low-slip, flexible glue (C2TES1) or Highly Deformable Glue (C2TES2) or Polyurethane-based glue.

Riscado Plus and Hando Plus wall coverings – Lena type 7 Bi-component polyurethane-based glue.

However, and considering the specificity of each of the different support surfaces and the diversity of the shape and weight of the available wall tiles, the technician of the chosen glue brand should be contacted, to decide which is the best glue to use.

QUANTITY CALCULATIONS

wall tiles

To determine the amount of necessary ACL coating pieces, do the following calculations.

Calculate the total surface area to be coated;

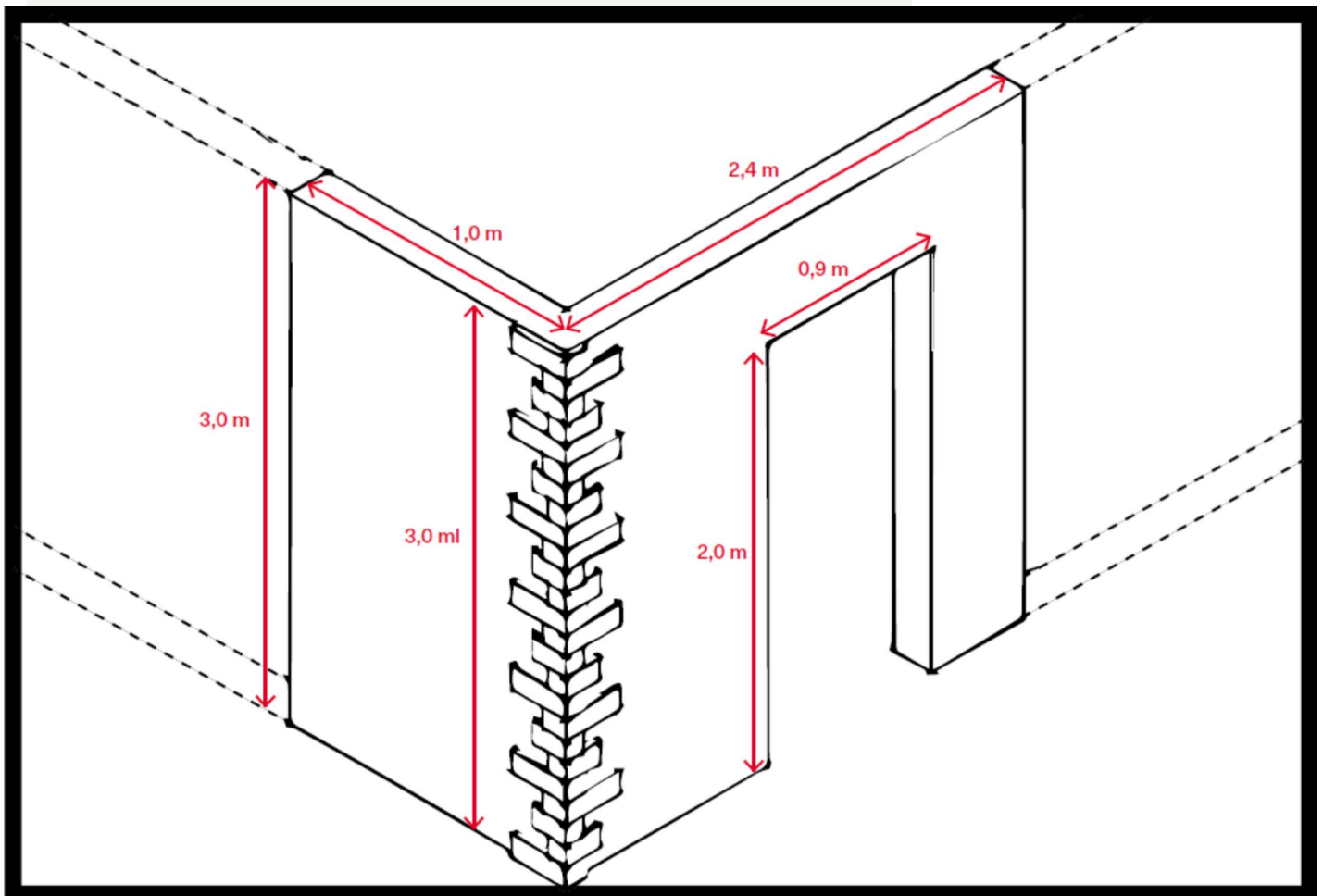
$$A_t = 3,0 \times 1,0 + 3,0 \times 2,4 = 10,2 \text{ m}^2$$

Subtract all doors, windows or other areas that are not going to be coated;

$$A_{sr} = 2,0 \times 0,9 = 1,8 \text{ m}^2$$

Quantity

$$Q_n = 10,2 - 1,8 = 8,4 \text{ m}^2 \text{ plain} + 3,0 \text{ ml corners}$$



THERMAL INSULATION SYSTEM(ETICS)

wall tiles

External Thermal Insulation Composite System (ETICS), for the installation of ACL wall covering.



- 1** Gluing with mortar for ETICS (Lena 824 Plus type)
- 2** Thermal Insulation Panel (EPS)
- 3** Screw fixing for ETICS (8 units/m²)
- 4** First adhesive mortar for ETICS (Lena 824 Plus type)
- 5** First Fiberglass Net with anti-alkaline treatment 160 gr/m²
- 6** Second adhesive mortar for ETICS (Lena 824 Plus type)
- 7** Second Fiberglass Net with anti-alkaline treatment 160 gr/m²
- 8** Adapter Sleeves for ETICS alternated with the previous ones
- 9** Third adhesive mortar for ETICS (Lena 824 Plus type)
- 10** Lena type 7 Bi-component polyurethane-based glue (double glue)
- 11** ACL wall covering
- 12** ACL type mortar joint

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towards
design &
innovation



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