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Ceramic Roof Tile
SOLAR FLAT-5XL
MONOCRYSTALLINE

Large-format flat roof tile with integrated solar energy system on the ceramic support for perfect integration into the roof.

**P.8** 



SOLAR roof tile with CIGS technology, the most effective in terms of shading, high efficiency and environmentally friendly.

P.10



FLAT-5XL

An example of the innovation and technological development in ceramic roof tiles. The largest ceramic tile in the world. FLAT-10

A new generation of flat tiles now lighter and with greater definition. Suitable for roofs and facades.

P.12

P.14





#### **TECHNICA-10**

Innovative flat tile in a Marseille style. Safer and technologically up-to-date. The most versatile format on the market. Ideal for all kinds of projects.



#### **ALICANTINA-12**

Our classic and versatile flat tile. Flat profile with two soft grooves manufactured along three generations by Tejas Borja.



#### **ESCAMA**

The classic tile normally used to cover conical or spherical areas.
Used also indoors as a decorative element.



#### FLAT-11

Perfectly flat tile available for custom projects. Consult the possibility of different finishes.

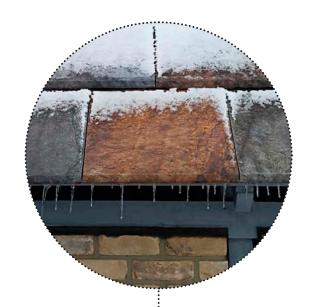
P.16

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Technology, innovation and sustainability



- Long-lasting colours
- Guaranteed watertightness ......
- Fast and secure installation .....
- Low maintenance







climate





Longitudinal Overlap up to 45 mm





## **BorjaJET**

### Inkjet technology in ceramic roof tiles

The fusion of the richness of natural materials with the technical properties of ceramic tiles. Excellent definition in the reproduction of all kinds of effects never achieved until before.

A technological revolution for roof tiles with finishes as varied as slate, wood, stone, marble, oxide, etc.



## Borja DECOR

High gloss glazed roof tiles which prevent premature aging, delaying moss formation.



Glazed Metallic / Crystal Matt

## Ceramic Roof Tile SOLAR FLAT-5XL



#### **SOLAR Flat-5XL ceramic roof tiles**

are the only large ceramic tiles with an integrated solar energy system. They are ideal for providing a reliable supply of solar energy. Thanks to the integration of the solar panel into the tile, they provide all the benefits of a roof made from ceramic tiles in terms of watertightness, without any risk of deterioration or oxidation.

The perfect integration is completed with the FLAT-5XL ceramic roof tiles and their clay accessories in the installation on the roof or facade.

#### **TECHNICAL** characteristics

Dimensions: 457 x 510 mm

Panel dimensions: 410 x 360 mm (385 x 315 mm useful area)

Individual weight: 7,50 Kg./Roof Tile

Units/sq. m.: 5,85- 5,50 units

Useful length (Batten distance) VARIABLE: 340-385 mm

- 360-385 mm recommended batten step.

Placing: Continuous or staggered pattern according to the Flat-5XL roof tile (1)

Standard (2): IEC 61646 - IEC 61730

#### Maximum power (P<sub>max</sub>): 23 Wp

Maximum power current (I<sub>mpp</sub>): 1,79 A

Maximum power voltage (V<sub>mpp</sub>): 14,30 V

Cell type: Monocrystalline

Front glass panel: 3,2 mm tempered glass FULL-BLACK

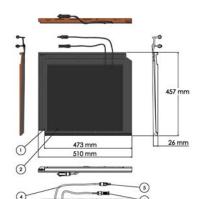
Junction box: IP 67

Connectors: MC4

Maximum power/sq. m.(3): 143,26 Wp/sq. m.

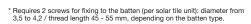
sq. m. - 1 KWp: 6,96 sq. m.

Units/kWp: 41,32 units



#### Key box:

- 1 Flat-5XL ceramic support
- 2 Photovoltaic panel
- 3 Junction box ceramic housing
- 4 Connection cables
- 5 MC4 connector (+) positive terminal
- 6 MC4 connector (-) negative terminal
- 7 Holes for fixing to the batten\*



All measurements are approximate.

Note: The SOLAR FLAT-SXL roof tile has an entirely black (FULL-BLACK), anti-reflective finish, with none of the typically visible connections. It is entirely compatible with the FLAT-SXL ceramic tile (see available finishes on the Tejas Borja website). Always check the latest technical data on the website.

(1) SOLAR Flat-5XL Ceramic Tile must always be installed on ventilated roofs using a double batten system or equivalent.

(1) SOLAR FIEL-SAL Geramic The midst always be installed on ventilated roots using a dout (2) Certification reference: SMG-20W (3) Depending on batten spacing.

STC standard conditions: irradiance = 1,000 W/sq. m.; cell temperature = 25°C; AM = 1.5.







Surface Flatness



climate



45 mm



Strength













The SOLAR Flat-10 roof tile is designed to blend seamlessly into your roof. Thanks to its integration, it confers all the benefits of capturing renewable photovoltaic solar energy as well as presenting excellent reliability in terms of watertightness throughout the roof.

The Solar Flat-10 roof tile is a photovoltaic tile manufactured using the latest photovoltaic cell technology. Denoted by the acronym CIGS (copper, indium, gallium and selenium), it is the most effective technology when it comes to operating in the shade. Using this technology, we can produce highefficiency solar cells with a high output which are also environmentally-friendly as they are free of cadmium and lead.

#### TECHNICAL characteristics

Dimensions: 457 x 1268 mm

Panel dimensions: 345 x 1215 mm ((300 x 1200 mm useful area)

Individual weight: 9,30 Kg./Teja

Units/sq. m.: 2,22- 2,02 units

Useful length (Batten distance) VARIABLE: 365-400 mm

Placing: Continuous or staggered pattern according to the Flat-10 roof tile (1)

Standard (2): IEC 61646 - IEC 61730

#### Maximum power (P<sub>max</sub>): 56 Wp

Maximum power current (I<sub>mpp</sub>): 1,7 A

Maximum power voltage (V<sub>mpp</sub>): 33 V

Cell type: CIGS (Libre de Cd y Pb) (3)

Front glass panel: 3,2 mm tempered glass FULL-BLACK

Back glass panel: 1,8 mm tempered glass

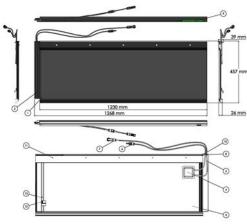
Junction box: IP 67

Connectors: MC4

Maximum power/sq. m. (4): 123 Wp/sq. m.

sq. m. - 1 kWp: 8,12 sq. m.

Units/kWp: 17,86 units.



- 1 Glass-Glass photovoltaic panel
- 2 Anodized aluminium base
- 3 Backsheet
- 4 Junction box
- 5 Connection cables (0,9 m)
- 6 MC4 connector (+) positive terminal
- 7 MC4 connector (-) negative terminal
- 9 Groungind cable
- 10 Grounding connection \*
- 11 Holes for fixing to the batten\*\*
- 12 Safety fixing bracket (2 screws included)
- 13 Holes for fixing saftey bracket (as per batten spacing).
- \* Requires an ISO 7049 screw (Thread size: ST 4,2 / Thread length: from 9,5 to 13 mm) for each ground connection.
  \*\* Requires 5 screws for fixing to the batten (per solar tile unit): diameter from 3,5 to 4,2 / thread length 45 55 mm, depending on the batten type.

Note: The SOLAR FLAT-10 roof tile has an entirely black (FULL-BLACK), anti-reflective finish, with none of the typically visible connections. It is is entirely compatible with the FLAT-10 ceramic tile (see available finishes on the Tejas Borja website). Always check the latest technical data on the website.

(1) SOLAR Flat-10 Tile must always be installed on ventilated roofs using a double batten system or equivalent (2) Certification reference TUV: CIGS-05xxT1.

(3) CIGS (copper, indium, gallium and selenide) is an acronym which describes the latest development in high efficiency solar

cell technology (this technology is the most effective in shady conditions) providing high performance while being free from cadmium and lead.

(4) Depending on batten spacing.

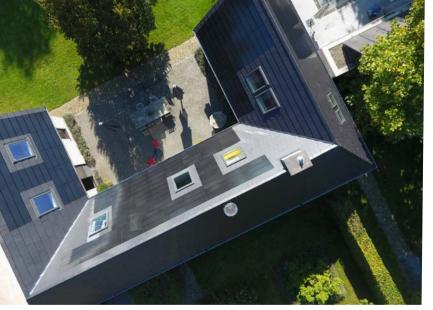
STC standard conditions: irradiance = 1,000 W/sq. m.; cell temperature = 25°C; AM = 1,5.

















#### FLAT-5XL









Mountain climate



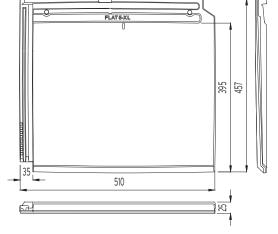
Longitudinal Overlap 45 mm



Flexural Strength

Dimensions	457 mm x 510 mm
Minimum pitch recommended	30% - 17° (*)
Weight	6,55 Kg./unit
Units / sq. m.	5,48 units
Units per LM eave line	2 units
Useful width	475 mm
Useful length (Batten distance) VARIABLE	340-385 mm
Pallet data	(G1) 152 units
Minimum order	2 units **





Approximate values: If the roof tiles are installed on battens, the useful length must be calculated on site. A tolerance of  $\pm\,2\%$  is allowed on the dimensions of the roof tiles according to EN 1024.

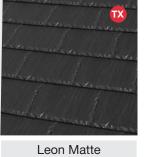
(\*) In zone 1 (protected area), arranged in staggered formation with waterproof membrane and batten distance of 340 mm on a skirt of up to 6.5 m. Check pitch pannel according to the roof length and the geographical area according to EN 136020.

#### FLAT-5XL / FINISHES

#### **PLAIN COLOUR**

#### Ceramic **SLATE**









Nepal Orange

Paris Ocre

TX

Irish Green

Ceramic OXIDE

Ceramic STONE









**Austin Grey** 

Denver Gold

Denver Iris

Tokyo Copper

Ceramic CEMENT



Sidney Graphite

Ceramic MARBLE



Roma Dark

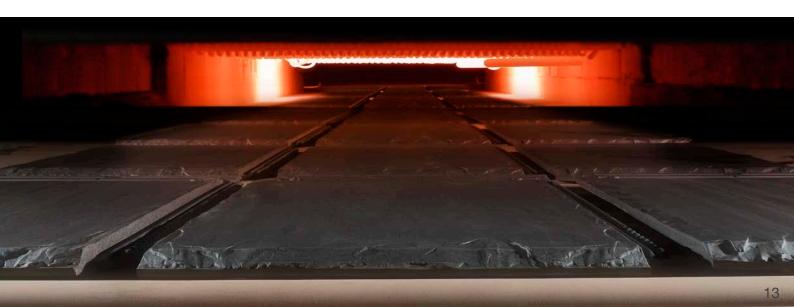
Ceramic COTTO



Ibiza Pink

NOTES: FLAT-5XL BorjaJET available upon request. Delivery time 4-6 weeks. All Flat-5XL finishes are produced only on 1 side colour.

or models with texture (Leon Matte, Ceramic Slate and Ceramic Stone)



#### FLAT-10

Perfect, deep fit

Large format - 10 units per sq. m.

**Exclusive BorjaJET finishes** 

Lightweight -



PLAY 19 TECH

285

410

4

> Klinker



Maximum Surface Flatness



Mountain climate



Juego Longitudinal 35 mm

Dimensions	475 mm x 285 mm
Minimum pitch recommended	30% - 17° (*)
Weight	3,5 Kg./unit
Units / sq. m.	10,20 units
Units per LM eave line	4 units
Useful width	245 mm
Useful length (Batten distance) VARIABLE	365-400 mm
Pallet data	(T1) 252 units / 930 Kg. (T2) 336 units / 1.230 Kg.
Minimum order	6 units **



Approximate values: If the roof tiles are installed on battens, the useful length must be calculated on site. A tolerance of ± 2% is allowed on the dimensions of the roof tiles according to EN 1024. The certified characteristics for the 

□ Terracotta tiles are compliant with the requirements of the NF EN 1304 standard: Structural faults, the geometric characteristics, resistance to flexural strength, impermeability (class 1), frost resistance according to the NF EN 539-2 standard for all products made with red mixture. AFNOR Certification: 11 rue Francis de Pressensé // 93571 LA PLAINE SAINT-DENIS CEDEX //www.marque-nf.com.

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(\*) In zone 1 (protected area), arranged in staggered formation with waterproof membrane and batten distance of 365 mm on a skirt of up to 6.5 m. Check pitch pannel according to the roof length and the geographical area according to EN 136020.

<sup>\*\*</sup> The tiles are subject to minimum order and must be multiples thereof.

#### FLAT-10 / FINISHES

#### **PLAIN COLOUR**



#### **NATURE**





Ceramic SLATE

Leon Matte



Ceramic WOOD



Ceramic CEMENT



Ceramic OXIDE



Ceramic COTTO



Pink - models with texture (Leon Matte, Ceramic Slate and Weathered Cedar)

#### **TECHNICA-10**



 $<sup>^{\</sup>star\star}$  The tiles are subject to minimum order and must be multiples thereof.

(TC) 240 units / 805 Kg.

(\*) In zone 1 (protected area), arranged in staggered formation with waterproof membrane and batten distance of 370 mm on a skirt of up to 6.5 m. Check pitch pannel according to the roof length and the geographical area according to EN 136020.

Minimum order

#### TECHNICA-10 / FINISHES

**PLAIN COLOUR** 

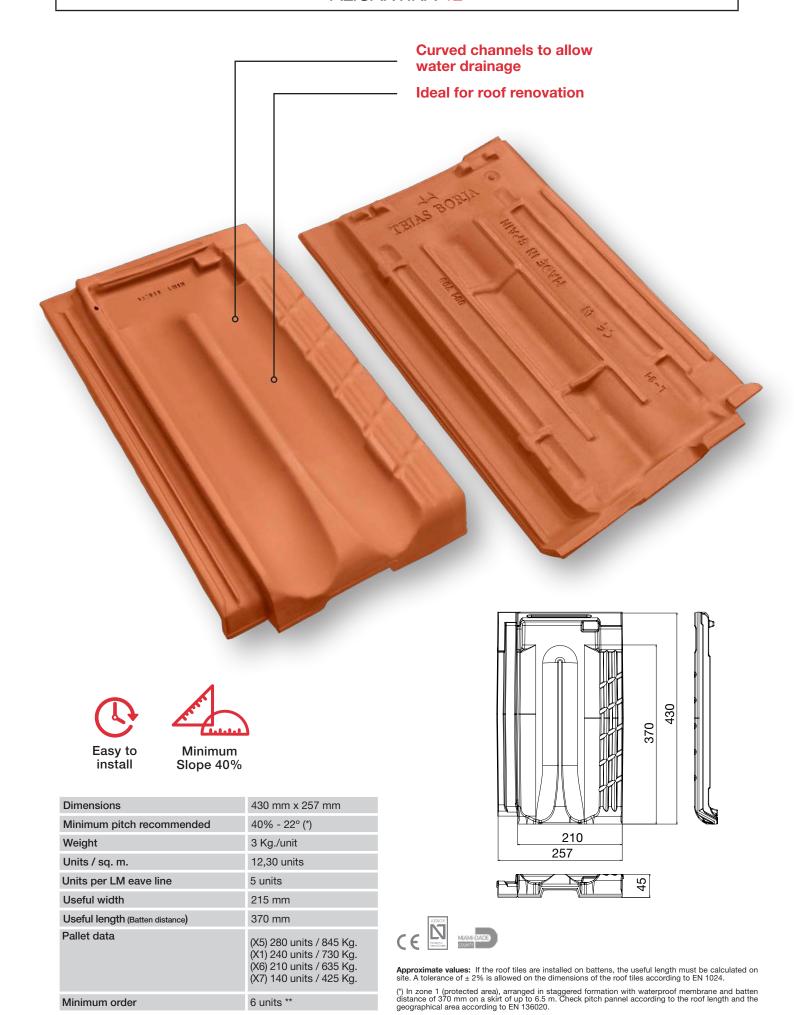


**NATURE** 





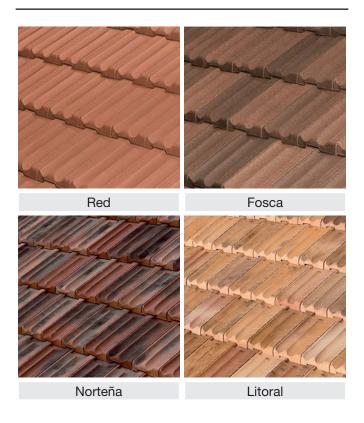
#### **ALICANTINA-12**



<sup>\*\*</sup> The tiles are subject to minimum order and must be multiples thereof.

#### ALICANTINA-12 / FINISHES

#### **NATURE**



#### ALICANTINA-12 / BorjaDECOR



# Perfect for domes Ideal for rehabilitation Indoor and outdoor use Width 150 mm Length 195 mm

Approximate values: On roof, total waterproof of the entire surface is required for any pitch. A tolerance of  $\pm\,2\%$  is allowed on the dimensions of the roof tiles according to EN 1024.



0,40 Kg./Unit

78 Units



**ESCAMA** 



Weight

Units / sq. m.













#### FLAT-11

#### **Special for CUSTOMIZED PROJECTS**

#### **Check availability and finishes**

#### Models available with or without texture

Dimensions	453 mm x 269 mm
Minimum pitch recommended	30% - 17° (*)
Weight	3,15 Kg./Unit
Units / sq. m.	11 Units
Units per LM eave line	4 Units
Useful width	238 mm
Useful length (Batten distance) VARIABLE	350 - 385 mm
Pallet data	320 Units / 1.020 Kg. 240 units / 750 Kg.
Minimum order	4 Units **



Approximate values: If the roof tiles are installed on battens, the useful length must be calculated on site. A tolerance of  $\pm\,2\%$  is allowed on the dimensions of the roof tiles according to EN 1024. (") In zone 1 (protected area), arranged in staggered formation with waterproof membrane and batten distance of 350 mm on a skirt of up to 6.5 m. Check pitch pannel according to the roof length and the geographical area according to EN 136020. 
\*\* The tiles are subject to minimum order and must be multiples thereof.















Angular Ridge 42 x 30,5 x 9,7 cm. 2,5 Units/ml / 3,2 kg. Max. Slope 62%-31.5°



Angular Hip Starter 42,2 x 30,5 x 10 cm. 2,83 kg.



Angular 3 Ways 45,2 x 29,3 x 10 cm. 4,37 kg.



Angular 4 Ways 46 x 41,5 x 16,5 cm. 6,50 Kg.



Straight End Cap 8,5 x 28,5 x 12,5 cm. 2,65 kg.

(5)

(10)



100° Ridge 47,5 x 25 x 10,5 cm. 2,22 Units/ml / 4,00 kg. Max. Slope 100% - 45°



100° Hip Starter 37 x 25 x 10,5 cm. 2,70 kg.



100° 3 Ways 40 x 45 x 22 cm. 5,15 kg.



100° 4 Ways 46,5 x 46,5 x 16 cm. 7,50 Kg.



100° End Cap 27,5 x 28 x 7 cm. 2,1 kg.



Interlocking EdgES FLAT-5XL Left 45,5 x 8 x 15 cm. 2,20 kg.



Interlocking Edge Left 45,5 x 8 x 15 cm. 2,20 kg.



Chimney Carrier FLAT-5XL d.140 45,7 x 27,2 x 16 cm. 17 Øext - 13 Øint / 3,75 kg.



FLAT-5XL 45,7 x 27,2 x 2,4 cm. 3,5 kg.

FLAT-10

FLAT-5XL



Ventilation FLAT-5XL 45,7 x 27,2 x 5 cm. 3,5 kg.



Interlocking Edge Right 47,2 x11,2 x 15 cm. 3 kg.



Straight Edge FLAT (Left/Right) 40,4 x 12,4 x 12,4 cm. 2,6 - 3 Units/ml / 2,50 kg.



Chimney Carrier FLAT-10 d.140 47,5 x 28,5 x 10,5 cm. 18 Øext - 13,5 Øint / 4,5 kg.



Half FLAT-10 47,5 x 16,6 x 2,6 cm. 2 kg.



Ventilation FLAT-10 47,5 x 28,5 x 3,7 cm. 3,5 kg.



(17

Universal Angular Edge A: for Alicantina-12 B: on monopitch 43 x 14,5 x 14,5 cm. 2,5 Units/ml / 2,85 kg.



Ventilation Cap 24,5 Øext - 22 Øint x 6 cm. 1,70 kg.

#### TECHNICA-10



Chimney d.130 20,4 Øext - 18 Øint x 23,5 cm. 2,15 kg.



Chimney d.140 22,5 Øext - 20 Øint x 23,5 cm. 2,35 kg.



Chimney Carrier TECHNICA-10 d.130 47,3 x 26,2 x 10,5 cm. 17 Øext - 13 Øint / 3,7 kg.



Half TECHNICA-10 47,5 x 15,5 x 2,6 cm. 2 kg.



Ventilation TECHNICA-10 47,5 x 26,2 x 10,5 cm. 3,4 kg.

FLAT-11

A tolerance of ± 2% is allowed on the dimensions of the roof tiles according to EN 1024.

Dimensions in centimeters.

Check finishing colours for different accessories.

Accessories are subject to minimum order and must be multiples thereof.

For textured roof tiles finishes, the Half and Ventilation roof tiles are with texture: other accessories are without texture.



Chimney Carrier ALICANTINA-12 43 x 25,7 x 12 cm 15,5 Øext-13,5 Øint cm. - 4 Kg.



Half ALICANTINA-12 (Left/Right) 43 x 15 x 4,5 cm. 1,25 Units/ml / 1,80 Kg.

**ALICANTINA-12** 

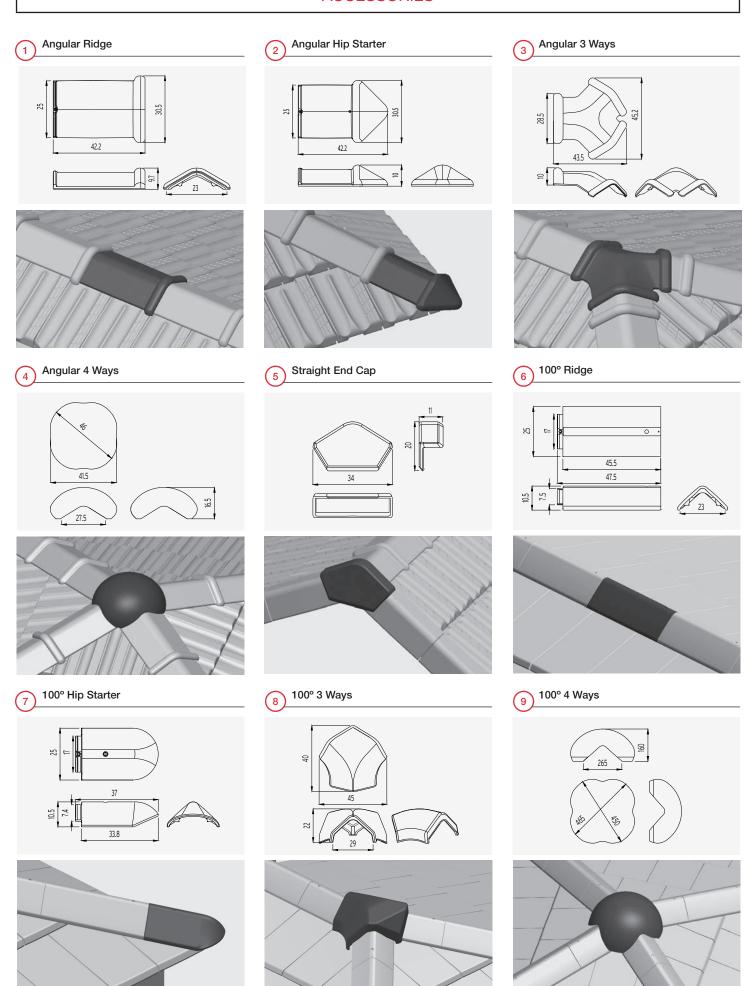


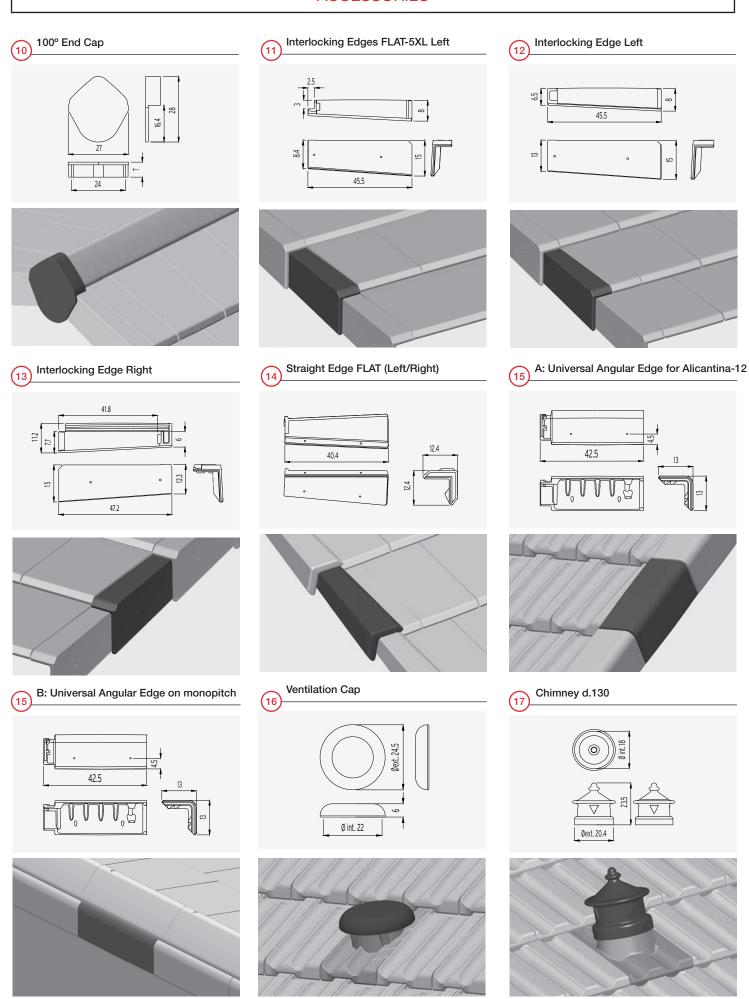
Ventilation ALICANTINA-12 43 x 25,7 x 10 cm. 4 Kg.

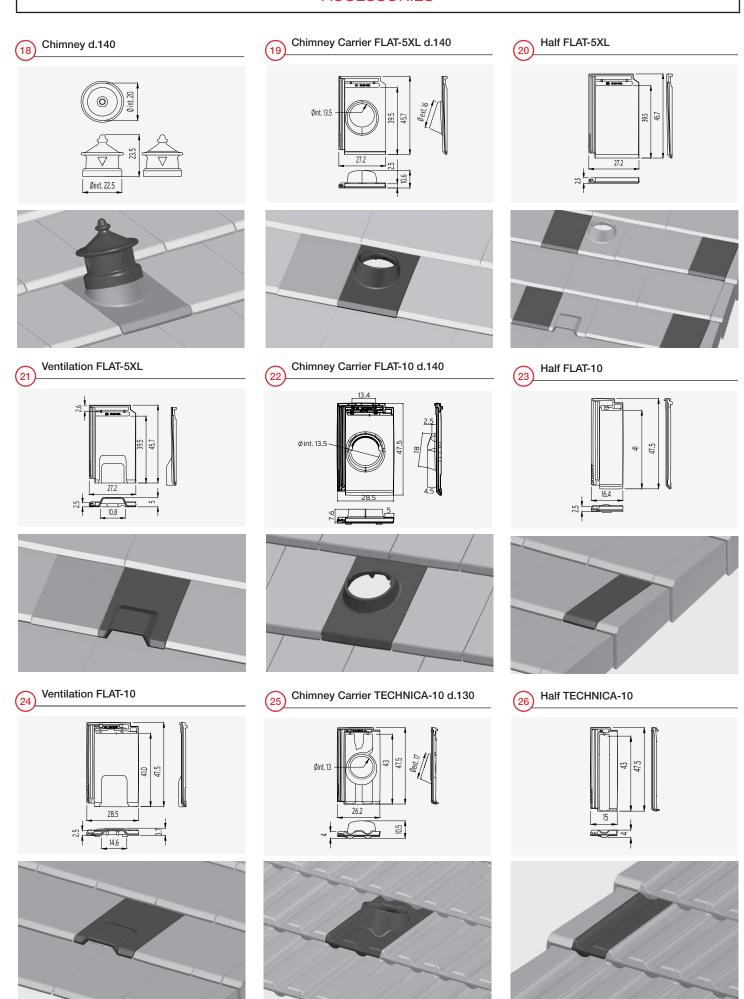


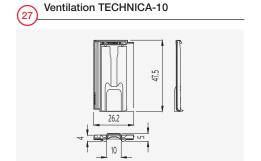
Half FLAT-11 45,7 x 15,3 x 2,5 cm. 1,5 Kg.

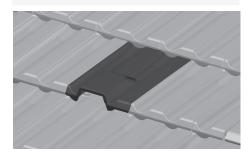








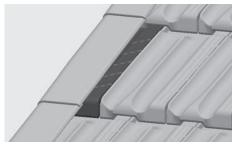




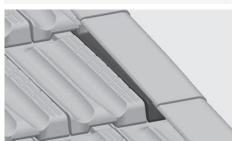


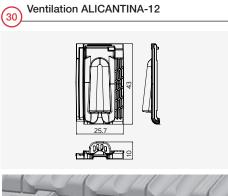




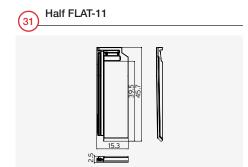


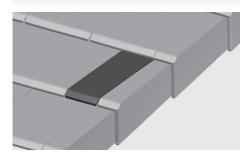




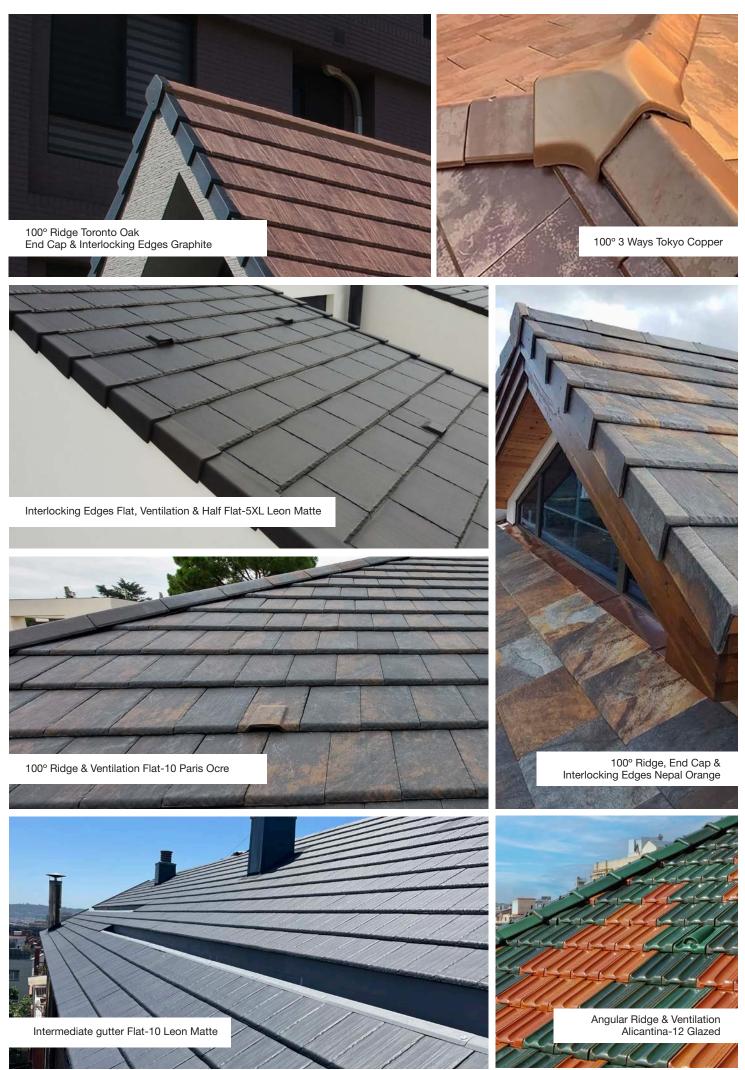












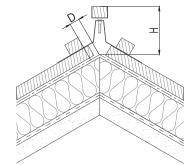
#### FLAT ROOF TILES INSTALLATION

#### **ROOF SLOPES**

Each roof must be planned taking into account where it should be built and the length of the deck, in accordance with the technical standards applicable in each territory. It is for this reason that for each area and location, must take into account of the minimum slopes for installation and the roof length.

Pitch panel according to the roof length and the location. (according to UNE - 136020)

Location	Roof length up to 6.5 m	Roof length from 6.5 to 9 m	Roof length from 9 to 12 m
Protected	42% - 22,5°	50% - 26,5°	55% - 29°
Normal	50% - 26,5°	55% - 29°	65% - 33°
Exposed	65% - 33°	75% - 37°	85% - 40,5°



Use the breathable/waterproof membrane on the support.

A special study should be carried out for roof length more than 12m in length (ask us).

		FLAT-5XL		FLAT-10				ALICANTINA-12		
		100° Ridge			100° Ridge		100°	Ridge	Angular Ridge	Angular Ridge
o	20°	30°	40°	20°	30°	40°	20°	30°	20°	20°
D (mm)	60	55	55	70	65	65	85	65	90	90
H (mm)	60	45	35	60	45	35	60	45 50		55

D - Distance between the last batten and ridge line; H - Height of ridge batten; ° - Pitch

The technical drawing is an example of construction. The roof tiles must be overlaped approx. 7-9 cm with the ridge.

#### **FITTING**

Roof tiles on the roof surface must be fixed to the support to a greater or lesser extent, depending on the pitch. In the case of singular points such as eave lines, edges, hip lines, valleys, joints and the ridge line, all roof tiles and accessories of these joints must be fixed to the battens.

We recommend that all roof tiles that form the perimeter of each skirt be fixed mechanically.

Batten type:	Metallic
	Treated wood
Dry installation:	Screws, nails and clips (depending on the support)
	Roof tiles adhesives

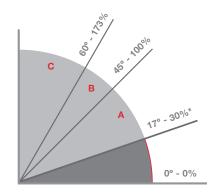
A 30% - 100% The roof tiles will rest on battens, since they are provided with nib support.

\* For the Alicantina-12 Roof Tile, 40%

B 100%-173% All the roof tiles around the perimeter of each roof surface must be fixed and at least one in every five should be fixed in a regular manner.

C > 173% In areas with strong winds, exposed areas or areas with basic seismic acceleration of > 0.12g, all roof tiles should be fixed mechanically to the battens.

Installation must comply with the technical standards applicable in each territory Code of practice for design and fixing of roofs with clay roofing tiles and Tejas Borja specifications.



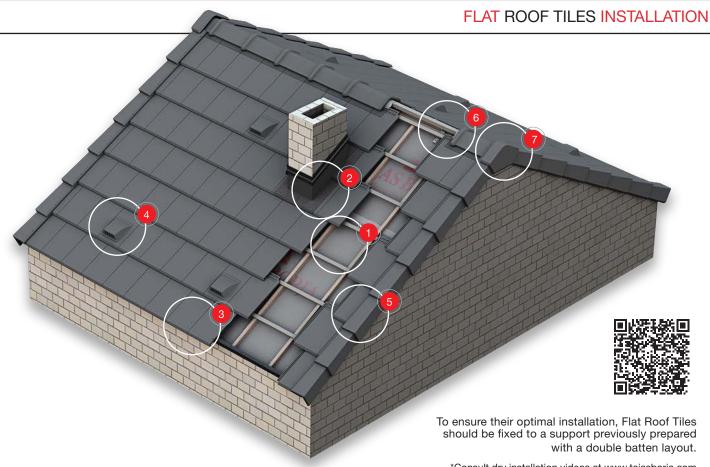
Less than 30% - Total waterproof of the entire roof surface is required for any pitch.

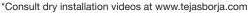
#### **VENTILATION**

Under-tile ventilation is necessary at all times. This will guarantee the durability of the material used to build the roof with their optimal characteristics, improving the hygrothermal performance of the roof tiles against the moisture resulting from condensation.

There must be a continuous air flow between eave lines and ridge line. Therefore, a space must be left between the roof tiles and the support. As a result, eave lines, ridge lines and singular points must never be filled in with mortar, as this will impede micro-ventilation.

Ventilation roof tiles will also be installed in a uniform manner across the surface of the roof. In case of dry installation, it is recommended that at least 1 ventilation roof tile be used every 10 sq.m. and 4 ventilation roof tiles per each roof skirt.







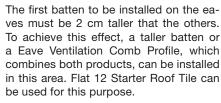
A breathable waterproof membrane should be laid on the support of the roof and the main battens (L1) should be installed every 50/70 cm, parallel to the steepest slope. The horizontal support battens (L2) for the roof tiles should be fixed to the main battens depending on the useful length of each roof tile (the useful length must be calculated on site).



To adequately solve roof joints and chimneys, multi-use (Premium or Aluminium) waterproofing bands should be used. Once attached to the clean dry surface, they must then be finished with the Counter flashing profile, sealing the upper line with a continuous line of putty.



To prevent birds from entering the roof and allow ventilation, Eave ventilation comb should be installed.





Flat roof tiles are installed from right to left, and from the eave to the ridge line. The first row of roof tiles have variable overhanging, depending on the model and installation.



Ventilation roof tiles are installed in the same manner as other roof tiles, interlocking into each other laterally and from the top. These roof tiles should be distributed along the roof surface.



Edges clay accessory (left and right) should be installed overlapping the roof tiles and following the direction of the tile. To complete the slope on the left it should be placed on the roof tile or half-tile, depending on the width of the roof surface and method of installation (straight or in staggered formation).



The batten installed on the ridge line should be attached to the Cantilevel supports. To install the battens, they must be installed to the Cantilevel support at the required pitch and height so that the ridges are directly supported on the roof tiles in the last row.

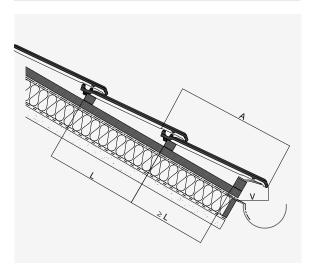


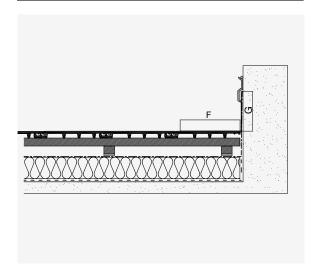
The Under ridge roll tape (mixed, aluminium or Roof ridge pvc vent brush) should be placed on the ridge batten and fixed with clips or nails. The rolls have adhesive strips of butyl to attach to the profile of the roof tiles and waterproof joints. Finally, the Ridges and End Caps clay accessory should be installed with screws/nails and ridge clips.

Always follow the Code of practice for installation of roofs with clay roofing tiles in accordance with latest regulations and those applicable in each zone of application.

#### **FLAT ROOF TILES INSTALLATION**

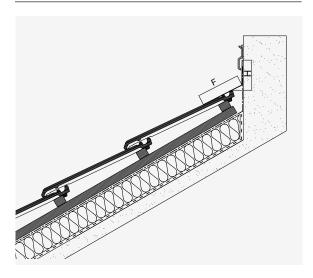
#### **EAVE LINE**



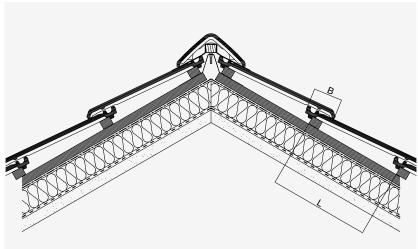


UPPER FLASHING

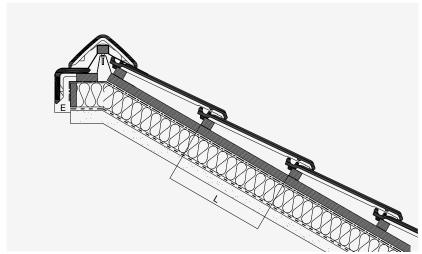
HORIZONTAL FLASHING



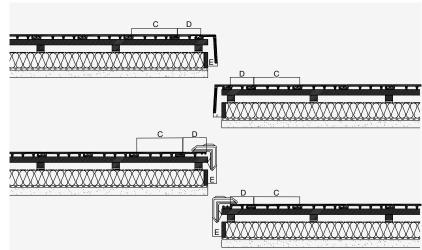
#### RIDGE LINE



MONOPITCH



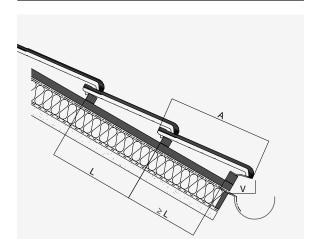
#### GABLES



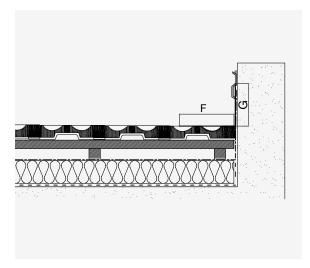
ROOF TILE	Α	В	С	D	Е	F	G	н	L	V
FLAT-5XL	457	72-117	475	237					340-385	
FLAT-10	475	75-110	245	124	≥ 50	≥ 100	≥ 250	≥ 150	365-400	≥ 50
FLAT-11	457	72-117	238	120					350-385	

#### MARSELLESA/TECHNICA ROOF TILES INSTALLATION

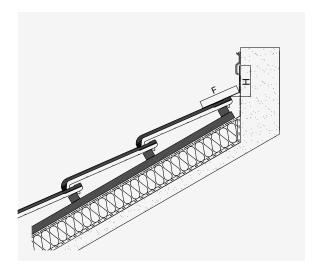
#### EAVE LINE



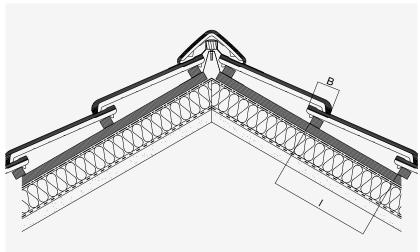
#### HORIZONTAL FLASHING



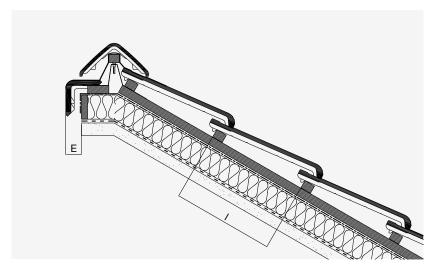
UPPER FLASHING



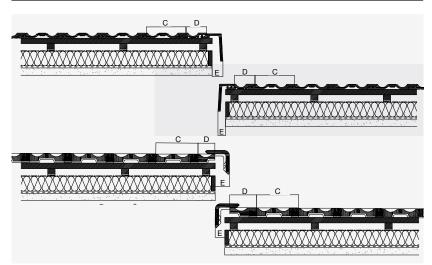
#### RIDGE LINE



MONOPITCH



#### GABLES



ROOF TILE	Α	В	С	D	E	F	G	н	L	V
TECHNICA-10	475	65-105	225	110	> 50	≥ 100	≥ 250	\ 1F0	370-410	> F0
ALICANTINA-12	430	60	210	103	≥ 50	≥ 100	≥250	≥150	370	≥ 50

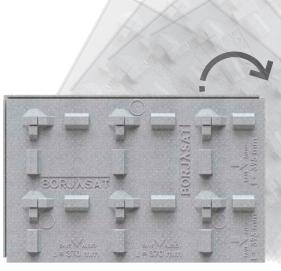




Install horizontally for a batten spacing of 370 mm

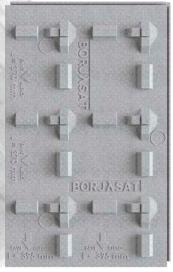


Install vertically for a batten spacing of 395 mm.







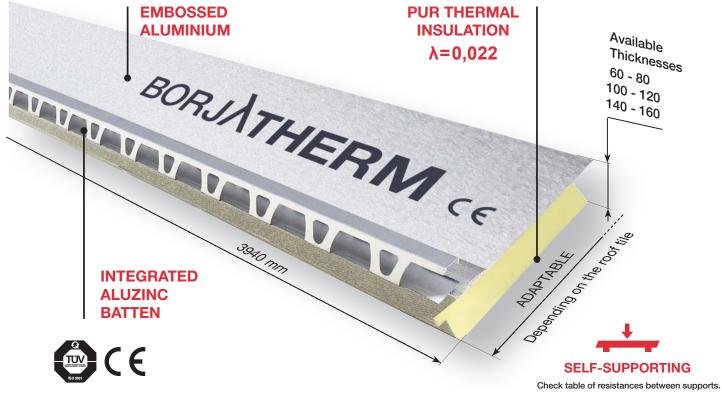


**BORJASAT ACCESSORIES** 



Metallic Batten U 40x15 BorjaSAT





#### **BORJATHERM ACCESSORIES**







Butyl Adhesive Band BORJATHERM 100 mm.



Treated Wooden Batten 60x50 mm.



Treated Wooden Batten 80x50 mm.

#### **ROOF COMPONENTS**

#### WATERPROOFING OF ENCOUNTERS



Multi-Use Premium 300/450 (waterproofing flashing)



Multi-Use Alu 300 (waterproofing flashing)



Counter Flashing Profile



Valley Adjustable Alu Flashing



Auto-adhesive Butyl Band 300



C€







#### **BATTENS**



Metallic Batten 30x30



Ventilated Batten 30x20



Treated Wooden Batten 40x30



Metallic Batten U 40x40 (Ridge Line)



# **ROOF COMPONENTS**

## WATERPROOF AND BREATHING



#### **ROOF SHEETS**



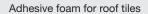
#### RIDGE LINE VENTILATION



# **ROOF COMPONENTS**

## **FIXING**







Ridge batten supports



Fixing clips for roof tiles



Ridge clips



Straight snow stopper



Fixing screws

# **EAVE LINE VENTILATION**



Ventilation Comb 100 mm

Ventilation Comb 60 mm



Bird Stop Grate 80 mm



Batten + Ventilation Comb (Batten 30 mm; comb 60 mm)



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### **PAINT**



Touch-up paints

NOTE: The roof components are subject to minimum order and must be multiples thereof.



# Projects

















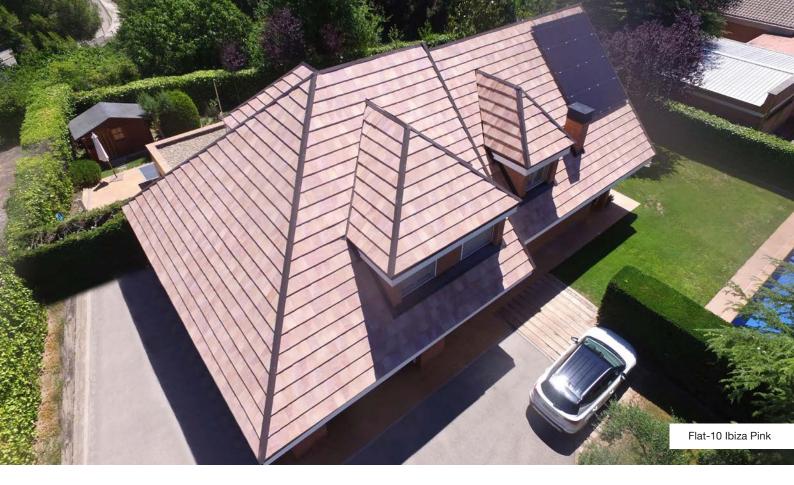


































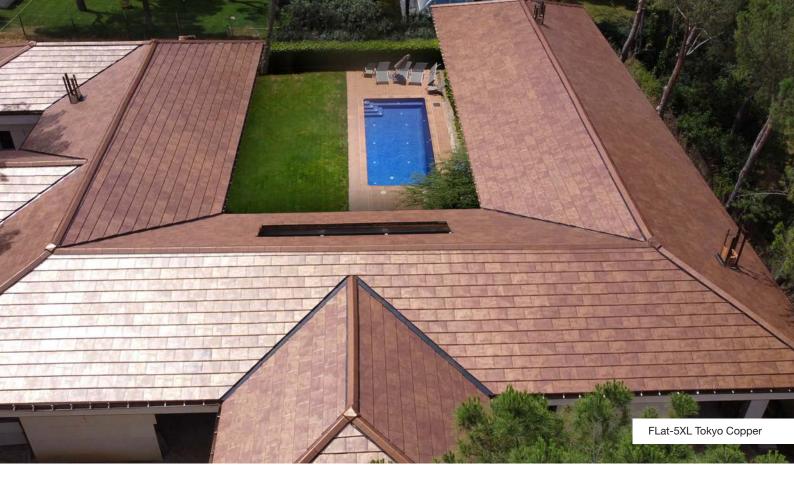




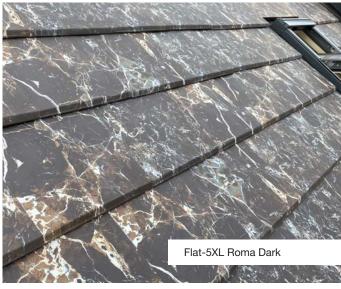
















Projects



















THE REVOLUTION of the ceramic tile sector

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