

# **CERÂMICA** **LARANJAL**



**Your house deserves the original.**

## Natural Line Ceramic Tiles and Finishings

### AMERICAN

12,5 pieces/m<sup>2</sup>  
3,4 Kg/piece  
42,5 Kg per m<sup>2</sup>



### PORTUGUESE

16,0 pieces/m<sup>2</sup>  
2,7 Kg/piece  
43,2 Kg per m<sup>2</sup>



### ITALIAN

13 pieces/m<sup>2</sup>  
3,4 kg/piece  
44,2 Kg per m<sup>2</sup>



### ROMAN

16 pieces/m<sup>2</sup>  
2,7 Kg/piece  
43,2 kg per m<sup>2</sup>



### FRENCH

15,8 pieces/m<sup>2</sup>  
3 kg/piece  
47,4 Kg per m<sup>2</sup>



### PAULISTA COVER

2,7 pieces/linear meter  
2,1 Kg/piece



### RIDGE

3,0 pieces/linear meter  
2,7 Kg/piece



### SPIGOT

2,7 Kg/piece



Water absorption: **ABNT NBR 15-310** reference: 20%

Illustrative images

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### GLOSSY WATER-REPELLENT

Our Glossy Water-Repellent line is an optional treatment, done by immersion. The tile receives an application of silicone-based water repellent, which provides greater shine, besides delaying the penetration of water and the impregnation of microorganisms (fungus) on the piece, not exempting the cleaning (washing) of the roof periodically.



Illustrative images



LOW WEIGHT  
PER M<sup>2</sup>



EASY  
CLEANING



HIGH RESISTANCE  
TO IMPACT



LOW WATER  
TABSORPTION



THERMAL  
COMFORT



ACOUSTIC  
COMFORT



EASY  
INSTALLATION



AGILITY IN  
ASSEMBLY



### QUANTIFICATION

Access [sistemasfaulim.com.br](http://sistemasfaulim.com.br) and download the roof tile quantificator software. **TELHAS FAULIM 1.0** was developed to assist in the quantification of tiles and finishes for various roofing models, calculating the square area, the hollow height, the inclined cloth and the budget of the tiles.



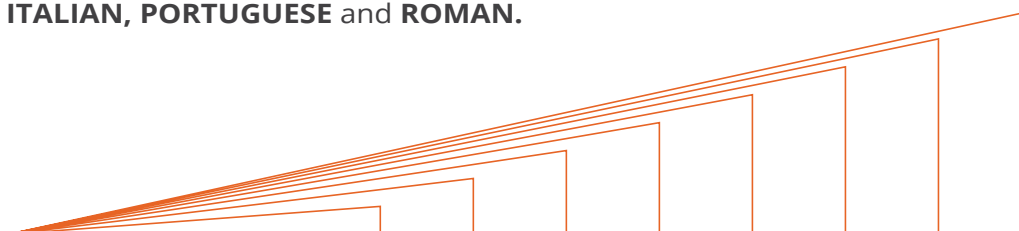
### IMPORTANT! READ THE TECHNICAL MANUAL

For the execution of the roof it is necessary to have a qualified technical manager to oversee the assembly of the structure (wood or steel) and the placement of the tiles in accordance with the assembly manual and current regulations, and it is his responsibility to make all verifications regarding the products used. You can download this and other materials from our website [www.ceramicalaranjal.com.br](http://www.ceramicalaranjal.com.br)

## Your house deserves the original.

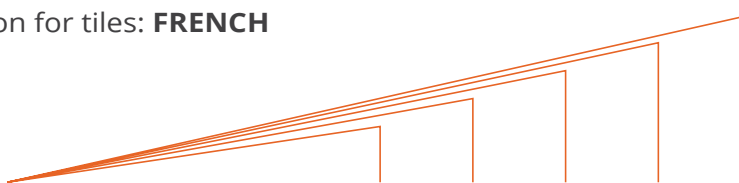
# Inclinations

- Minimum inclination for tiles: **AMERICAN, ITALIAN, PORTUGUESE and ROMAN.**



Distance between supports	3m	4m	5m	6m	7m	8m	9m	10m
Inclination	30%	32%	34%	36%	38%	40%	42%	45%
Inclined Roof	3,10	4,20	5,30	6,40	7,50	8,60	9,80	11,00
Hollow	0,90	1,28	1,70	2,16	2,66	3,20	3,78	4,50
Grade	17°	18°	19°	21°	22°	23°	24°	26°

- Minimum inclination for tiles: **FRENCH**



Distance between supports	3m	4m	5m	6m	7m
Inclination	32%	34%	36%	38%	40%
Inclined Roof	4,20	5,30	6,40	7,50	8,60
Hollow	1,28	1,70	2,16	2,66	3,20
Grade	18°	19°	21°	22°	23°

**Notes:** The maximum slope allowed for the FRENCH tile model is 40%.



## BE AWARE!

The Cerâmica Laranjal roof tiles have their quality certified by a complex system of conformity in accordance with the ABNT NBR 15.310 standard. Commitment, excellence and efficient service are part of our culture, delivering products with durability, quality finishing, resistance and beauty for your construction.

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# Instructions

## TECHNICAL SUPPORT

This chart was prepared by the engineering department of Cerâmica Laranjal with the objective of training and supporting the users. Our department is at your disposal to offer support for any eventuality or necessary clarifications to the users.

\* The Cerâmica Laranjal roof tiles comply with the current Brazilian norms ABNT NBR-15.310.

## INSTRUCTIONS FOR USE AND STORAGE

- Minimum slope of 30%, in spans of up to 3.00m;
- Above 3.00m an inclination table must be used;
- An inclination above 45% must be used to tie the tiles together;
- In flexionated roofs, the same rule is followed from the first meter on;
- The material may change color over time, depending on the region;
- It is necessary to store the material in a protected place if it is not going to be used immediately;
- Provide shelter in case you need to store the tiles for a long period of time, to avoid the proliferation of fungus that forms on the surface of the tiles if stacked wet;
- The shed must be gauged according to the lot of material received; an average of 10 tiles is taken. The distance varies according to each tile model.

\* General instructions as determined by Law 8078 of 11/09/1990 to ensure satisfaction and quality to your work.



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