

A unique and  
attractive look  
for your roof



 **torreenselesa**



The lusa tile is traditionally considered to be a Lusitanian invention.

Quick to apply and with a robust fitting system, this tile offers high levels of resistance in the covering.

A wide range of accessories provides a very balanced covering, from an aesthetic and technical point of view.




Torreense offers different surface finishings for the lusa tile, responding to regional and architectural specificities: traditional colours (natural red, white and brown) and patines.

**NORM/FUNCTIONAL DEMAND**

**SPECIFICATION**



**Physical and mechanical characteristics**

 NP EN 538	<b>Flex resistance</b>	1.200 N	Exceeds	Exceeds	Exceeds
 NP EN 539-1	<b>Coef. of impermeability</b> (Method 2 – Level 1)	Min. $\leq 0,85$ Average $\leq 0,80$	To standard	To standard	To standard
 NP EN 539-2	<b>Resistance to frost</b> (C Method)	50 Cycles	Exceeds	Exceeds	Exceeds

**Geometrical characteristics**

 NP EN 1024	<b>Coef. of planarity (%)</b>	$\leq 1,5$	To standard	To standard	To standard	
	<b>Rectilinearity (%)</b>	$\leq 1,5$	To standard	To standard	To standard	
	<b>Dimensional stability</b>					
	Length (%)	$\pm 2$	To standard	To standard	To standard	
	Width (%)	$\pm 2$	To standard	To standard	To standard	

**SUMMARY OF TECHNICAL SPECIFICATIONS**

Weight <sup>(1)</sup>	3,800 Kg	3,350 Kg	3,800 Kg
Lath spacing <sup>(1)</sup>	38,5 cm	38,0 cm	38,5 cm
Length (%)	46,5 cm	45,5 cm	46,5 cm
Width <sup>(1)</sup>	27,0 cm	26,5 cm	27,0 cm
Units per m <sup>2</sup>	11,5	12	11,5
Units per mini-parcel <sup>(2)</sup>	-	6	-
Units per pallet <sup>(2)</sup>	290	300	300
Weight per pallet	1.120 Kg	1.030 Kg	1.160 Kg

(1) Average value. Due to the intrinsic characteristics of ceramic materials, slight variations of the average values may occur; on-site testing is advised.

(2) Amounts for standard parcels

**OBSERVATION:** values presented applicable only to tiles of natural colour; these can be changed without prior notice. For more information, please contact our Sales Department.





**01.  
REINFORCEMENT OF THE UPPER TRANSVERSAL FRIEZE**

Strong sealing of the covering against water in comparison with the majority of lusa tiles.



**02.  
LARGE RANGE OF ACCESSORIES**

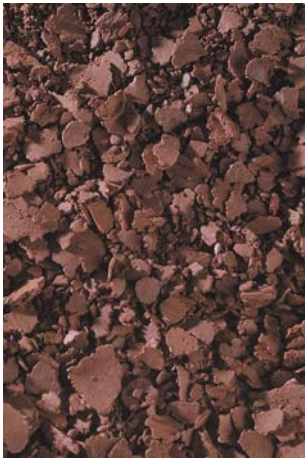
High degree of functional complementarity and aesthetic harmony between pieces (tiles and roofing accessories), with a special note for the introduction of more functional corners (3 and 5 pieces) and a new ventilation tile: simple application with groves with no need to use other application materials.



**03.  
HIGH LEVEL OF RESISTANCE**

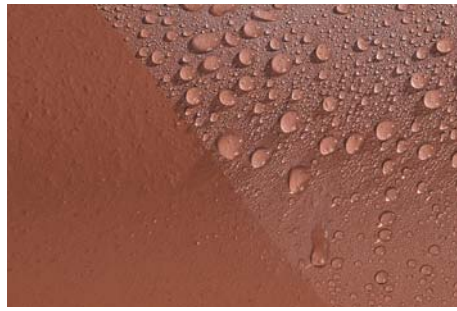
Resistance au déplacement, assemblage et circulation dans le toit, supérieur à la majorité des produits existants sur le marché.





**04.  
EXCLUSIVELY SELECTED TYPE OF  
CLAY**

Unique natural tonality and uniformity of the surface finishing (minimum fixation/adherence of the materials in suspension).



**05.  
PRODUCTS WITHOUT AND WITH WATER REPELLENT**

Availability of the product with or without water repellent. Despite the initial appearance of the water repellent product, Torreense suggests the use of non water repellent products since these have a better long-term performance, especially in terms of resistance to ice and marine salts.



**06.  
ELEGANCE AND GREATER SURFACE COVERING PER SQUARE  
METER**

With just 11.5 tiles per square metre, a lighter covering is obtained, without compromising the aesthetic elegance (proportionality in the form of the verge against the edging).



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Authentic experience in roof tile manufacturing since 1928 has produced the finest collection of portuguese roof tiles.

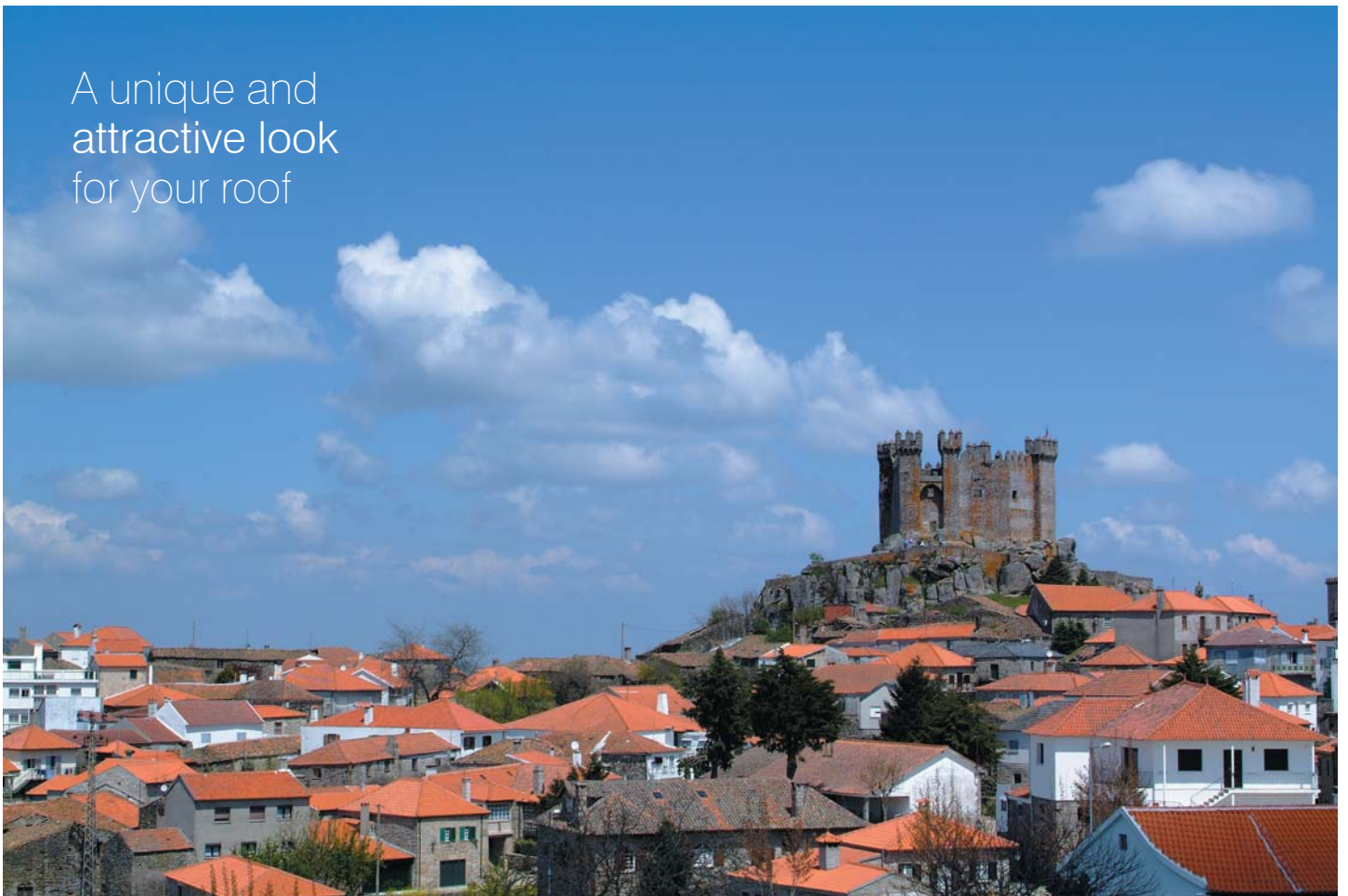
High quality clays and modern technology have combined with the expertise and creative visions of generations of professionals to produce innovative and architecturally sound products.

Our products create a unique and attractive look for a roof. Let us share with you the rich beauty and durability of our natural products.



[www.ceramicatorreense.pt](http://www.ceramicatorreense.pt)

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