



Our identity

Inspired by the beauty and the natural qualities of terracotta for more than 150 years, TERREAL has always evolved and faced the challenges of its industry to become a key player in building materials.

Today, TERREAL is an innovative and responsible manufacturing company with over 2,700 employees across 10 countries.

Creating global solutions for building envelopes, TERREAL operates four main businesses: roofing, façade, structural and decorative. Our mission: to continually improve regional development and foster sustainable, aesthetic and functional architectural projects that respect both mankind and the environment.

We work with clay and let it inspire us to change daily life into something unique.

Terreal, building beauty

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WALL **BRICKS RANGE**

TERREAL Façade, A unique material for exceptional architectural designs.

Drawing on its 35-year expertise in façade products, Terreal has mastered the exceptional properties of terracotta and adapted them to the requirements of sustainable construction. Cooling in summer, regulating temperatures in winter, the solutions in our product range fit perfectly into external insulation systems and are suitable for new construction and renovation projects.

As a true showcase of the building, the façade also represents a key element in its energy efficiency. With either ventilated or direct wall cladding, sunscreens or wall facing, Terreal Façade offers an extensive range of innovative solutions used to cover or insulate all types of buildings.



Timeless modernity of an age-old material

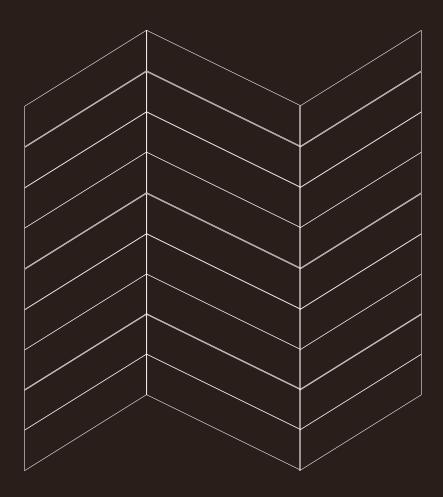
Since ancient times, clay has been used for decoration, protection and appeal. Today, it takes new shapes that add style to your architectural designs.

Terracotta is a material with cutting-edge production techniques and industry leading performance in all requirements: manufacturing consistency, numerous colour variations, product customization, ease of installation, versatility, insulation performance and environmental responsiveness.

While other materials may challenge terracotta in some of these fields, few acheive all of the following qualities:

- Durable
- Perennial
- Modern
- Authentic
- Environmentally Friendly
- •100% Natural
- Fire Resistant
- Impact Resistant
- Recyclable
- Low Thermal Conductivity
- Creative
- Architectural
- Warm
- Light
- Living

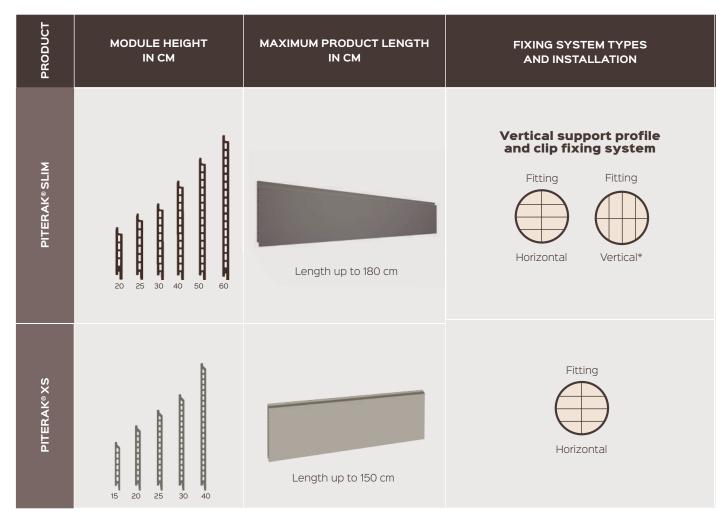




THE WALL CLADDING PRODUCT RANGE

Modern, authentic and environmentally friendly, the Terreal wall cladding product range continually invigorates is application techniques and aesthetics. It offers highly effective solutions that meet the latest thermal, seismic and environmental regulations. It is resistant to impact, wind and frost, and is certified by technical assessments issued by the CSTB organization and other engineering organizations around the World. Durable, maintenance free, and economical, our products are made from clay, a natural raw material, and benefit from the expertise of a major corporation to constantly progress.

WALL CLADDING PRODUCT GUIDE



^{*} With the V-clip® fixing system: see p.52
All module heights and lengths are available in imperial dimensional products

STANDARD FINISHES



RIDGED 9.2

Piterak® Slim and Piterak® XS Ridged dimensions : H9 x P2 mm



RIDGED 9.1,5

Piterak® XS Ridged dimensions : H9 x P1,5 mm



GROOVED 13.6

Piterak® Slim

Grooved dimensions: H13 x P6 mm



PXSA2

Piterak® XS

Bottom clip Clip for movement joint

SKINS



PXS01

Standars clip

Piterak® XS



PXSA1

Piterak® XS

Piterak® Slim, Piterak® XS

GLAZED



SMOOTHPiterak® Slim, Piterak® XS

COLOURS

03. Champagne

06. Sand

04. Salmon pink

11. Sahara beige

16. Ebony

10. Chalk white12. Light grey

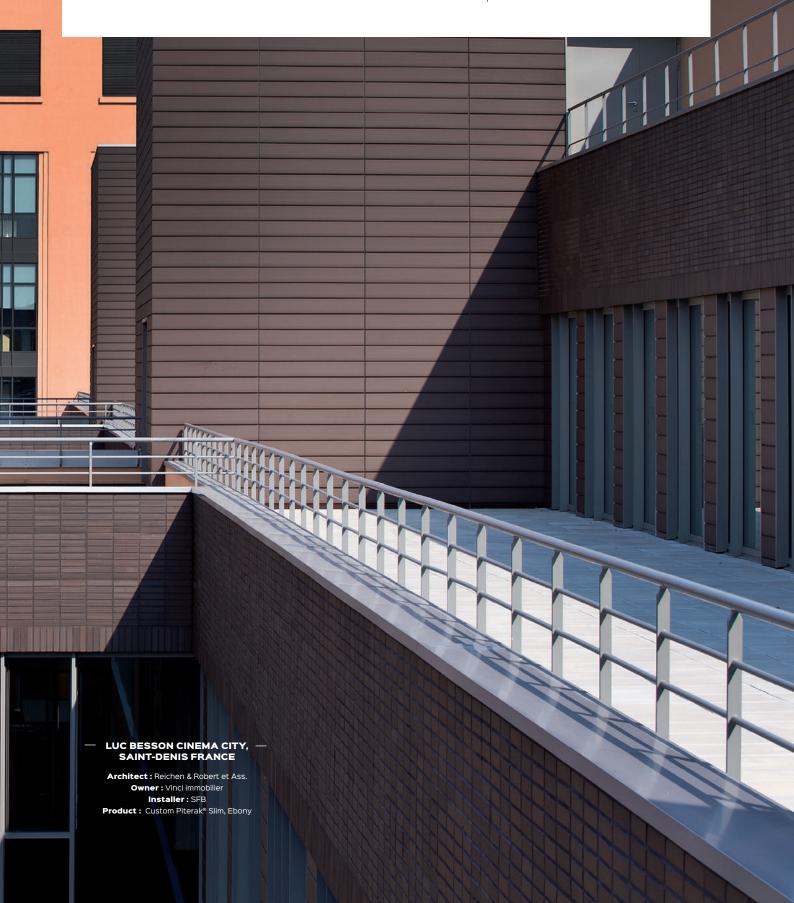
15. Slate grey

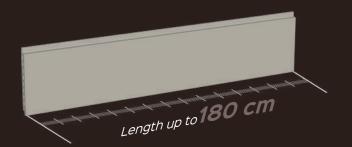
PITERAK® SLIM



Piterak® Slim is a large size terracotta rainscreen cladding with overlapping horizontal joints. It is installed with clips fixed on vertical profiles. Used with the V-Clip® system, it is officially approved for vertical installation.

Piterak® Slim is tough, rated Q4 for impact resistance and versatile with a large range of standard or glazed colours and custom possibilities.



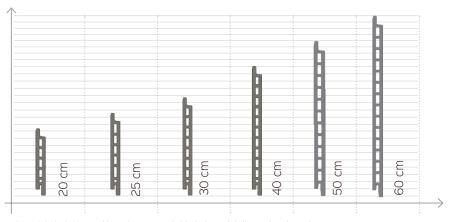


ADVANTAGES

- Large length terracotta cladding : up to 180 cm
- Height from 20 to 60 cm
- Many customization possibilities : colour, finish, shape
- Choice of installation : horizontal or vertical
- High impact performance
- Maintenance free and durability







All module heights and lengths are available in imperial dimensional products



STANDARD DIMENSION AND PERFORMANCE

PRO	DDUCT	MODULE H X L X TH.	DIMENSIONS H X L X TH.	WEIGHT Unit	IMPACT RESISTANCE*	WIND RESISTANCE					
		mm	mm	kg		Standard*	Reinforced				
	20	200 x1810	214 x 1800 x 30	17,5	Q4						
PITERAK® SLIM	25	250 x 1810	264 x 1800 x 30	21,8	Q4	1578 to 2359 Pa*	1945 Pa*				
	30	300 x 1810	314 x 1800 x 30	26,2	Q4						
	40	400 x 1810	414 x 1800 x 30	35	Q4						
	50	500 x 1810	514 x 1800 x 30	43,7	Q4	962 to 1465 Pa*	-				
<u> </u>	60	600 x 1810	614 x 1800 x 30	52,4	Q4						

H =Height; L=Length; Th.=Thickness *Maximum resistance reached with reinforced installation. Up to Q3 for ridged and grooved finishes.

INSTALLATION PROPERTIES

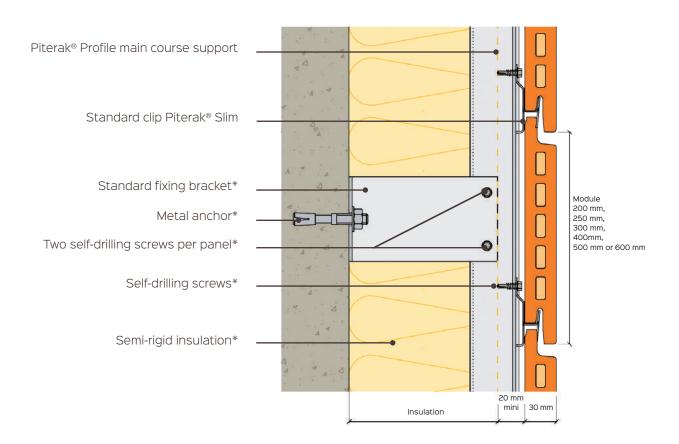
- **Product under technical assesment**: French CSTB and BBA
- Substrate type: concrete wall, coated masonry, and framed walls (18 mm)
- Primary framework : corrosion resistant metal
- Installation: horizontal, vertical (with V-clip® system), soffit (H. max 40 cm; L. max 150 cm with reinforced profile installation)
- Impact resistance : Q4 (Q3 for ridged and grooved finishes)
- Seismic performance, approved for French categories zone IV, buildings 4 with insulation 240 mm max
- Fire resistant
- Thermal conductivity: 0.4 to 0.6 W/mK
- Solar absorption coef.: 50 to 90% (depending on colour)

PRINCIPLE OF IMPLEMENTATION

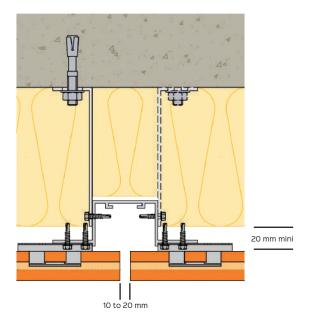
- Panels installed with clips on a metal vertical framework fixed to the wall
- The vertical uprights are aligned with the open joints. Their shape drains rainwater in order to protect both the wall and the insulation
- Very simple to replace one broken panel
- Air gap for ventilation minimum 20mm
- Vertical joints: 10 to 20 mm
- 45° mitre available from factory



STANDARD INSTALLATION DETAILS



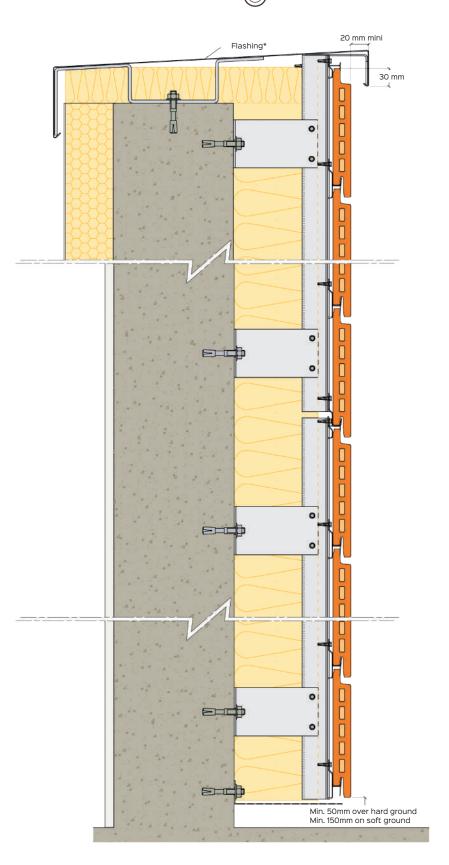
STANDARD FIT



^{*} Not furnished by Terreal

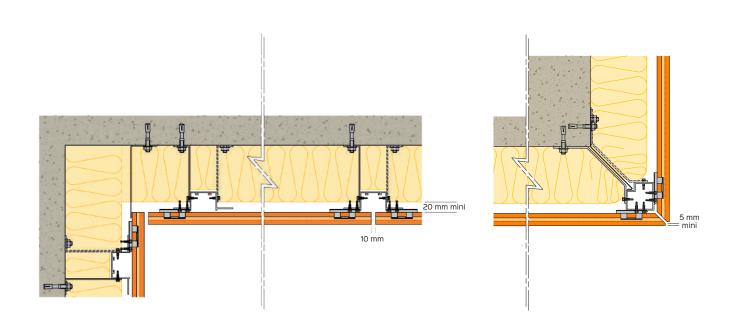


DETAIL : WALL BASE AND PARAPET



* Not furnished by Terreal





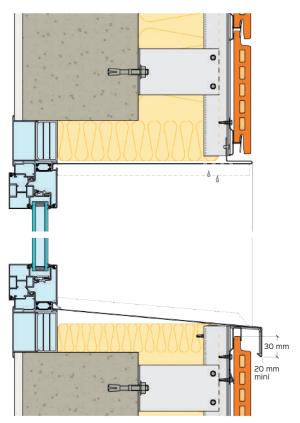


DETAIL:

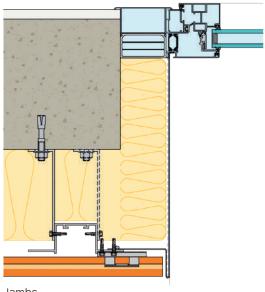
WINDOW FRAME FLUSH WITH INSIDE WALL



Lintel



Window sill



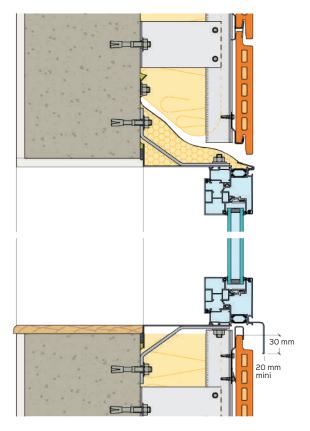
Jambs



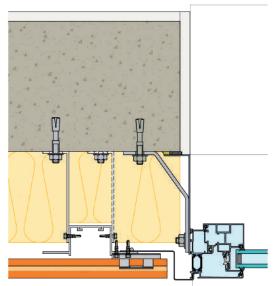
DETAIL : WINDOW FRAME FLUSH WITH OUTSIDE WALL



Lintel



Window sill



Jambs

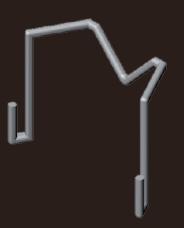
VERTICAL INSTALLATION

with V-Clip® label façade The V-Clip® fixing system is made of a high performance steel wire clip that locks on a horizontal rail. With V-Clip®, the products Piterak® Slim and Maestral® Slim can be installed vertically on flat or curved surfaces. This system reduces the horizontal joint to 8mm. As a result the cladding looks more continuous, emphasizing the verticality of the facade.

Technical Assessment No.2/09-1362







ADVANTAGES

- System technical assessment
- Fits with all configurations of walls
- Fast and easy installation
- System masked by the invisible terracotta alveoli
- Seismic Resistance
- Wind resistance

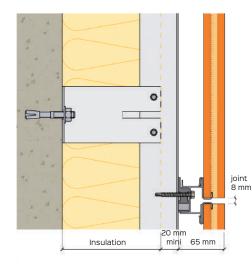
Available

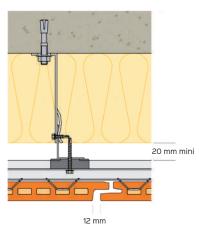




Standard installation









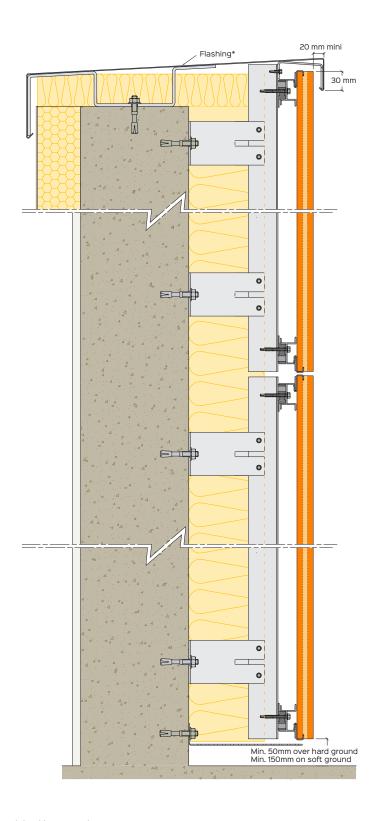
Installation on metal framework



DETAIL:

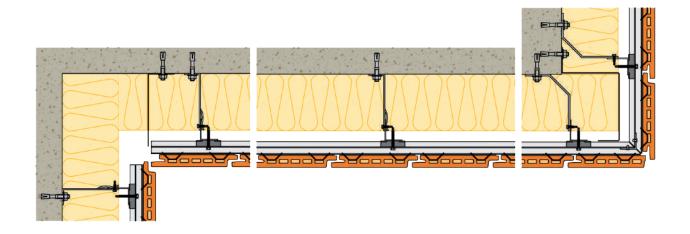
WALL BASE AND PARAPET





^{*} Not furnished by Terreal



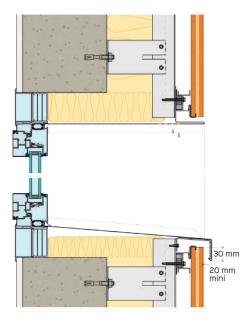




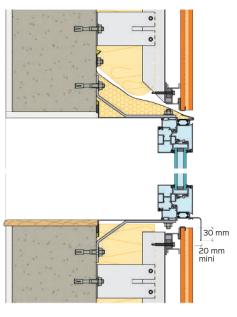
DETAIL : WINDOW FRAME FLUSH WITH INSIDE AND OUTSIDE WALL





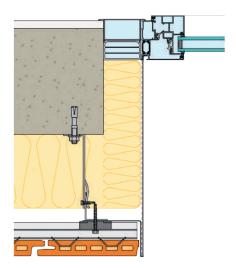


Lintel

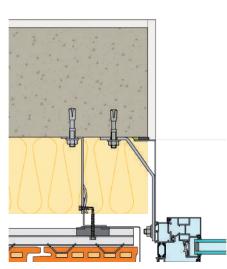


Window sill

Window sill



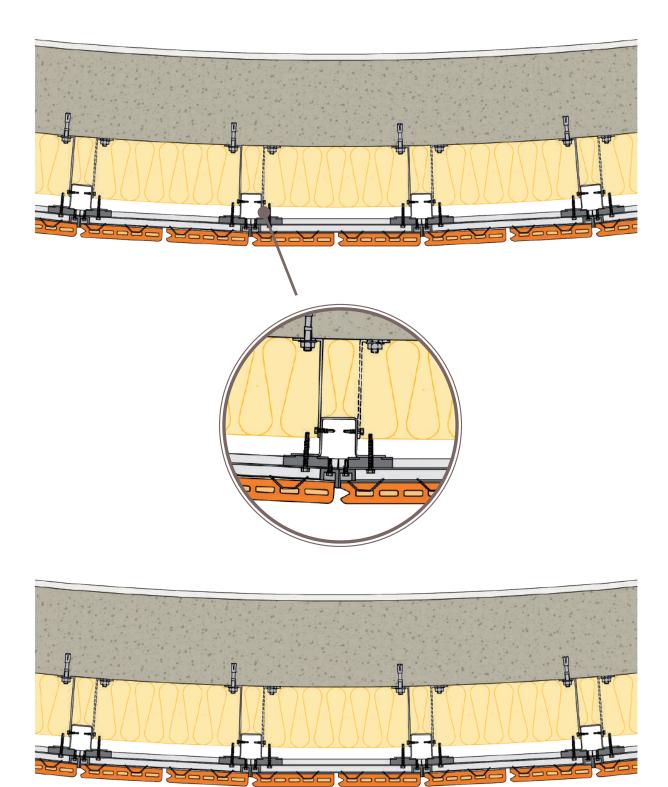




Jambs

INSTALLATION ON **CURVED WALLS**





PITERAK®



Piterak® XS clay tile is a cost effective ventilated wall cladding product installed with clips fixed to vertical profiles. Its light weight allows easy handling on site and reduced transportation costs by optimizing the palletization.

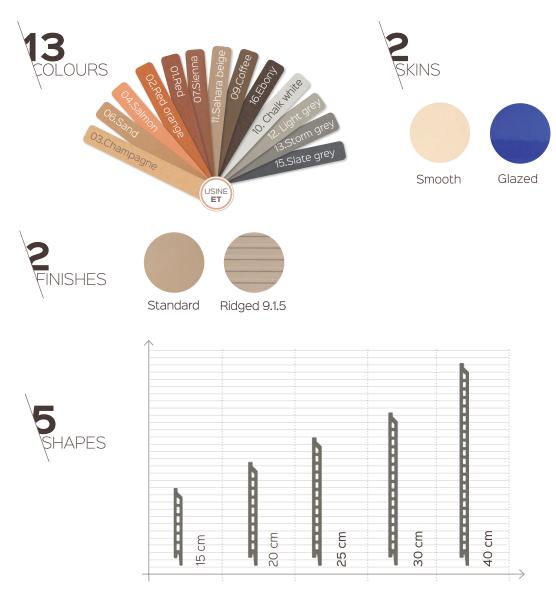
Aesthetical and modern, Piterak® XS is available up to 150 cm-long, in 13 through-body colours, with smooth or ridged finish. It is also available in a glazed range of 21 standard colours or custom shades on request.



ADVANTAGES



- Large choice of colours
- Heights from 15 to 40 cm up to 150 cm in length
- Maintenance free
- Economical solution
- Lightweight rainscreen cladding (around 30kg/m²)
- Unparalleled durability of terracotta
- Simple and fast installation using clips





DIMENSIONS STANDARDS AND PERFORMANCES

		MODULE	DIMENSIONS	WEIGHT	IL 4D A CT	WIND RESISTANCE							
PRODU	JCT	HXLXTH. mm	HXLXTH. mm	Unit kg	IMPACT RESISTANCE*	St	Reinforced**						
				Ng		L 60cm	L120cm	L150cm	L150cm				
	15	150 x 1500	159 x 1490 x 18	6,7	Q2/Q3*	8	320 Pa		1928 Pa				
	20	200 x 1500	209 x 1490 x 18	8,9	Q2/Q3*	8	320 Pa		1928 Pa				
	25	250 x 1500	259 x 1490 x 18	11,9	Q2/Q3*	2542 Pa 1840 Pa		820 Pa	1928 Pa				
	30	300 x 1500	309 x 1490 x 18	13,4	Q2/Q3*	2542 Pa	1270 Pa	614 Pa	1508 Pa				
	40	400 x 1500	409 x 1490 x 18	17,9	Q2/Q3*	614 Pa			970 Pa				

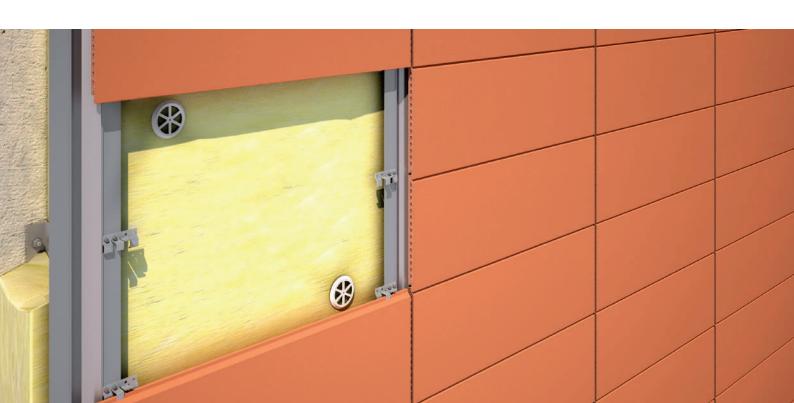
H = Height; L= Length; Th. = Thickness* Maximal resistance with reinforced installation* Installation with intermediate profile and 2 clips the state of the st

INSTALLATION PROPERTIES

- and BBA
- Substrate type : concrete wall, coated masonry, and framed walls (18 mm)
- **Primary framework** : corrosion resistant metal
- Installation : horizontal, soffit (H. max 40 cm; L. max 150 cm with reinforced profile installation)
- Impact resistance: Q2, Q3
- •Seismic performance, approved for French categories zone IV, buildings 4 with insulation 240 mm max
- Fire resistant
- Thermal conductivity: 0.4 to 0.6 W/mK
- Solar absorption coef. : 50 to 90% (depending on colour)

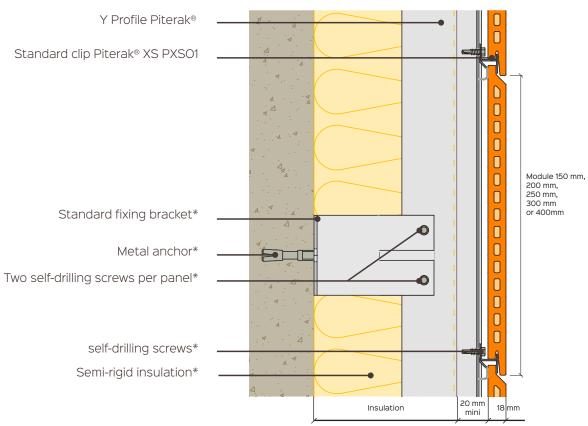
PRINCIPLE OF IMPLEMENTATION

- Product under technical assesment: French CSTB Panels installed with clips on a metal vertical framework fixed to the wall
 - The vertical uprights are aligned with the open joints. Their shape drains rainwater in order to protect both the wall and the insulation
 - Very simple to replace one broken panel
 - Air gap for ventilation minimum 20mm
 - Vertical joints: 10 to 20 mm
 - 45° mitre available from factory

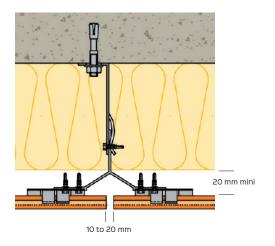


STANDARD INSTALLATION DETAILS





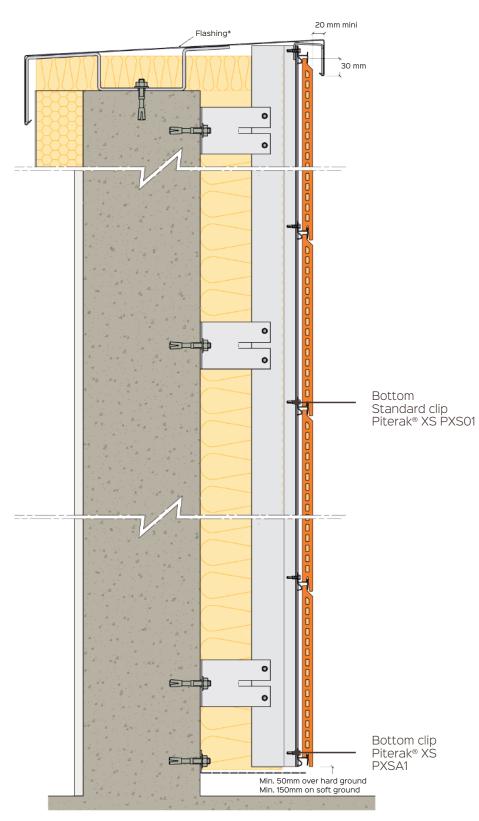
STANDARD FIT



^{*} Not furnished by Terreal

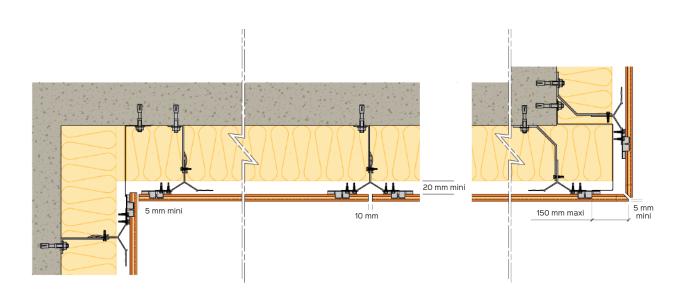


DETAIL : WALL BASE AND PARAPET



*Not furnished by Terreal





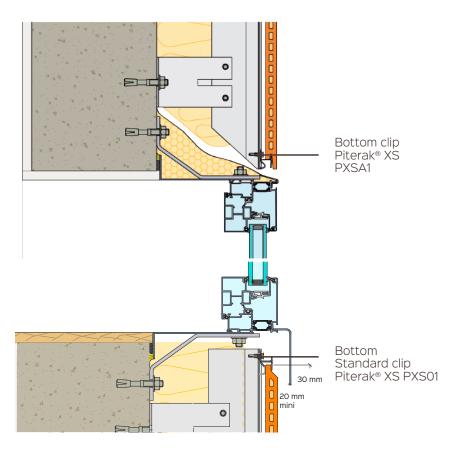


DETAIL:

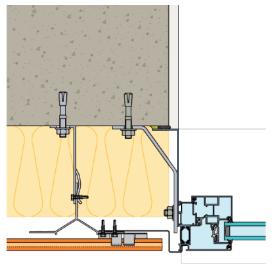
WINDOW FRAME FLUSH WITH OUTSIDE WALL



Lintel



Window sill



Jambs

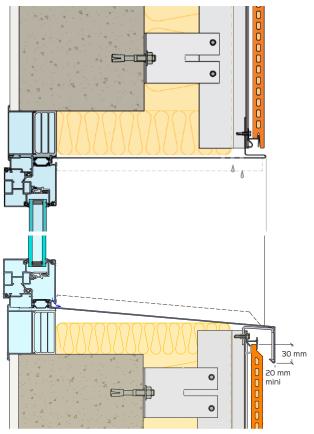


DETAIL:

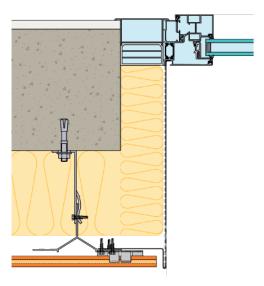
WINDOW FRAME FLUSH WITH INSIDE WALL



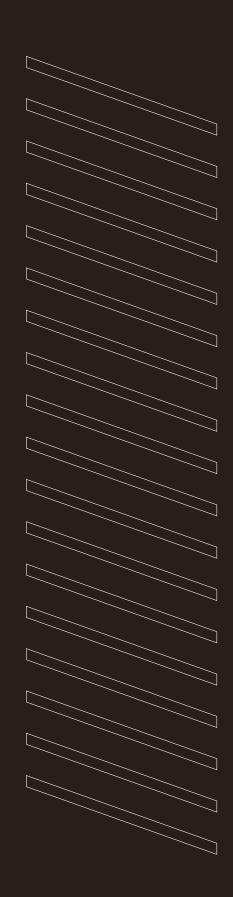




Window sill



Jambs



THE SUNSCREEN PRODUCT RANGE

SUN PROTECTION AND VERSATILE DESIGNS

To answer the many requirements of building envelopes and specifically the expectations regarding sun protection, TERREAL offers a wide range of terracotta baguettes that can be used to build sunscreens, wall claddings and visual screens.

As an integral part of the façade, sunscreens provide thermal comfort, let natural light in, and help reduce blinding effects without blocking visual contact with outside. They truly bring façades to life. They create depth and allow the designers to play with shadows, while combining thermal comfort, control of sunlight input and optimization of natural daylight.

SUNSCREEN PRODUCT GUIDE



PERFORMANCES

SHADE PERCENTAGE

Sun angles considered : Summer Solstice 39°, Equinoxes 45°, Winter Solstice 21°.

PRODUCT	CENTRES	SUMMER SOLSTICE	EQUINOXES	WINTER SOLSTICE			
AUTAN®,	15 cm	100%	67%	46%			
AUTAN® ROUND, AUTAN® XL, AUTAN® XL	20 cm	89%	50%	35%			
DROPLET	25 cm	71%	40%	28%			
	20 cm	100%	75%	45%			
HARMATTAN®, ZONDA® XL 10	25 cm	100%	60%	36%			
	30 cm	100%	50%	30%			
	25 cm	100%	80%	44%			
ZONDA® XL 15	30 cm	100%	67%	36%			
	40 cm	100%	50%	27%			

	COLOURS	Stone colour	03. Champagne	06. Sand	04. Salmon pink	02. Red-orange	01. Red	07. Siena	Violine	11. Sahara beige	Pearl grey	09. Coffee	Chocolate brown	16. Ebony	10. Chlak white	12. Light grey	13. Storm grey	15. Slate grey	
ET	AUTAN® XL, ZONDA® XL SHAMAL® XL		•	•	•	•	•	•		•		•		•	•	•	•	•	
RQ	AUTAN®, HARMATTAN®	•	•			•	•		•	•	•		•	•					

SUNSCREEN RANGE

RANGE AUTAN®

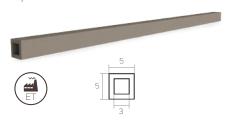
Autan® Up to 30 cm



Dimension: 5 x 5 x 29,4 cm Section: 3 x 3 cm (1 cavity) Weight: 3,3 kg/ml

Kit available with centre spacing:120/150/180 cm

Autan®XL Up to 150 cm



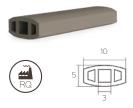
Dimension: 5 x 5 x 20 à 150 cm Section: 3 x 3 cm (1 cavity)

Weight: 3,2 kg/ml

Kit available with centre spacing : 100/120/150/180 cm

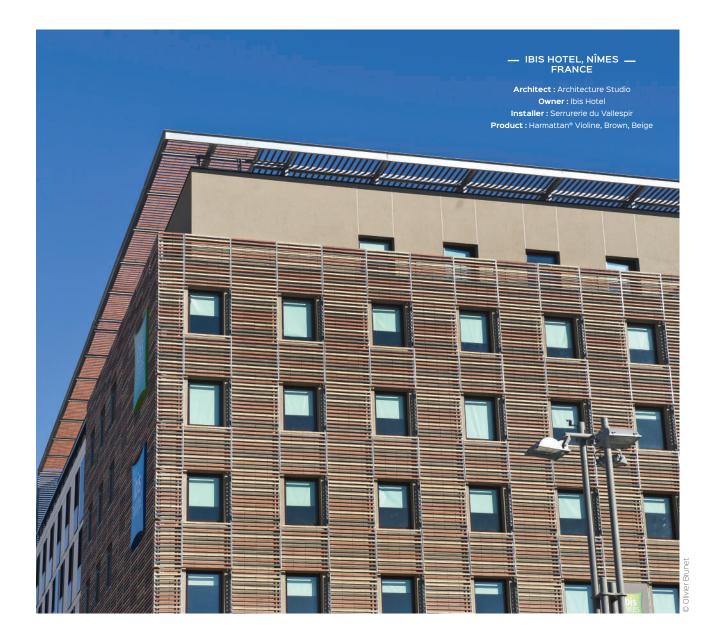
RANGE HARMATTAN®

Harmattan® Up to 30 cm



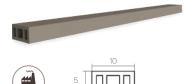
Dimension: 5 x 5 x 29,4 cm Section: 3 x 3 cm (1 cavity) Weight: 6,2 kg/ml

Kit available with centre spacing: 120/150/180 cm



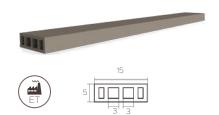
RANGE ZONDA® XL

Zonda® XL 10 Up to 120 cm



Kit available with centre spacing: 100/120/150/180 cm

Zonda® XL 15 Up to 120 cm



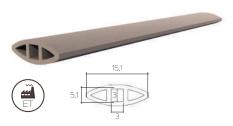
Dimension : 5 x 15 x 50 à 150 cm Section : 3 x 3 cm (2 cavities)

Weight: 9,8 kg/ml

Kit available with centre spacing: 100/120/150/180 cm

RANGE SHAMAL®

Shamal® XL 15

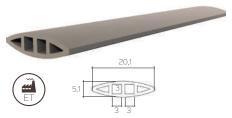


Dimension : 5 x 15 x 20 à 150 cm

Weight: 7,8 kg/ml

Kit available with centre spacing: 100/120/150/180 cm

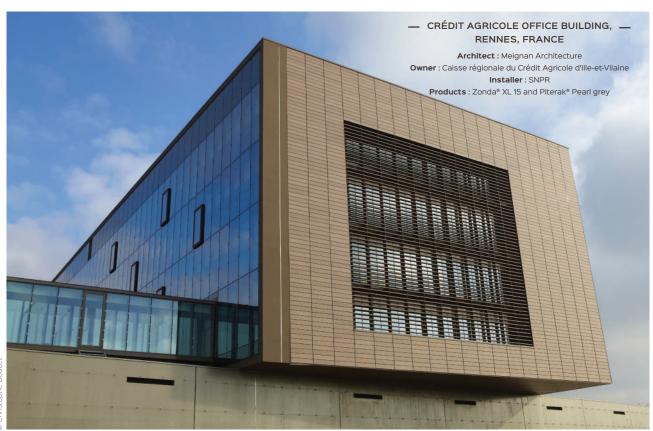
Shamal® XL 20



Dimension : 5 x 20 x 20 à 150 cm

Weight: 10,3 kg/ml

Kit available with centre spacing : 100/120/150/180 $\,\mathrm{cm}$



Christophe Doucet

FIXING SYSTEM

TERREAL sunscreen system is easily assembled on site and quickly installed on an aluminium framework. Available in four sizes, the installation kit can be adapted to all desired lengths by simply cutting the aluminium tube, and can reach up to 180cm.

Its modular design allows varying the center spacing between sunscreen rows as well as their orientation. It can be installed either vertically or horizontally and offers total architectural freedom.

SYSTEM PROPERTIES

- Vertical upright center spacing up to 180 cm
- Vertical or horizontal installation
- Fixed floor to floor sub-frame profile (3 m)
- Versatility: choice of spacing and length
- Finish: Anodized or coated with any RAL colour reference
- Made of aluminium and stainless steel

- Compatible with all sunscreen products
- Available in factory equipped version
- Four standard modules: 100, 120, 150 et 180 cm
- Test report available on demand: seismic, wind, impacts (see p8)

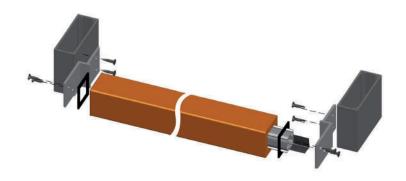
AUTAN® SYSTEM EXAMPLE

End plates

Mounting screws

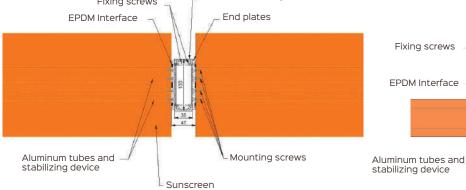
Sunscreen

INSTALLATION IN FRONT OF PROFILES



SHAMAL® XL SYSTEM EXAMPLE

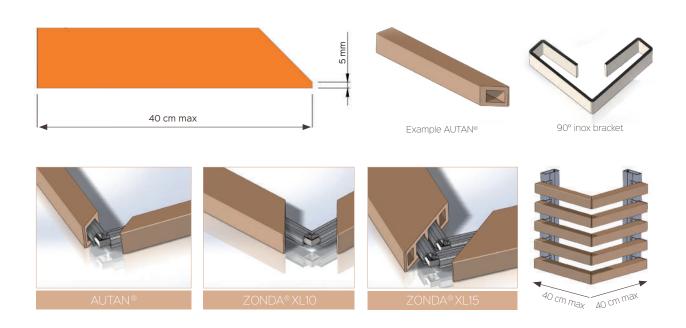
Fixing screws Vertical standard profile EPDM Interface End plates



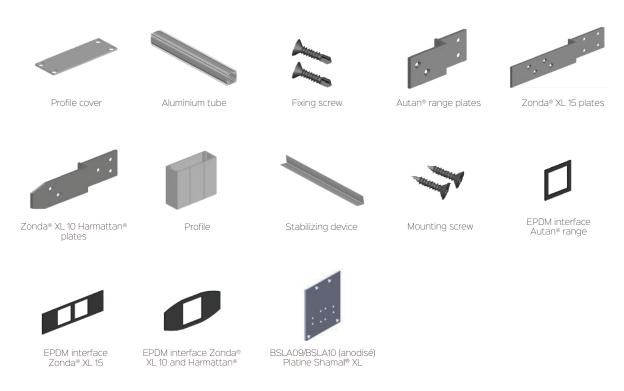
Installation in front of profiles not available for Shamal $\!\!^{\rm @}$ products

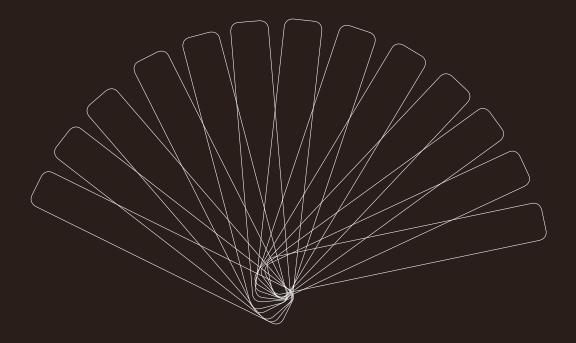
DETAIL CORNERS

• 45° angle cut at factory is available (except for Shamal® XL



COMPONENTS OF THE TERREAL FIXING KIT





TERRACOTTA COLOURS

MATERIAL. TEXTURE AND DESIGNS

Colour and material are at the forefront of modern architectural design.

Available in a wide range of colours and finishes, terracotta is the leader among materials that offer architects a rich and long lasting palette of colours to create a dynamic and coherent environment.

The TERREAL collection offers a rich colour range of standard references providing a stimulating tool focused on colour and material.

Everything addresses your senses: the subtlety of smooth skins, the authenticity of sanded skins, the simplicity of ridged skins, and the brightness of glazed finishes.

Following a 5,000-year history, terracotta is still today at the forefront of modernity.

STANDARDTHROUGH COLOURS

10. Chalk white Pink 06. Sand 12. Light grey 13. Storm grey 04.Salmon 15. Slate grey 02. Red-orange 01. Red Violine 07. Siena

Stone colour	
Stone colour	09. Coffee
03. Champagne	Chocolate brown
11.Sahara beige	16. Ebony
Pearl grey	

	COLOURS	Stone colour	03. Champagne	06. Sand	04. Salmon pink	02. Red-orange	01. Red	07. Siena	Violine	11. Sahara beige	Pearl grey	09. Coffee	Chocolate brown	16. Ebony	10. Chlak white	12. Light grey	13. Storm grey	15. Slate grey
ET	AUTAN® XL, ZONDA® XL SHAMAL® XL		•	•	•	•	•	•		•		•		•	•	•	•	•
RQ	AUTAN®, HARMATTAN®	•	•			•	•		•	•	•		•	•				

STANDARD GLAZED COLOURS

THE CHROMA COLLECTION

Bright and deep colours taken from the Chroma wheel



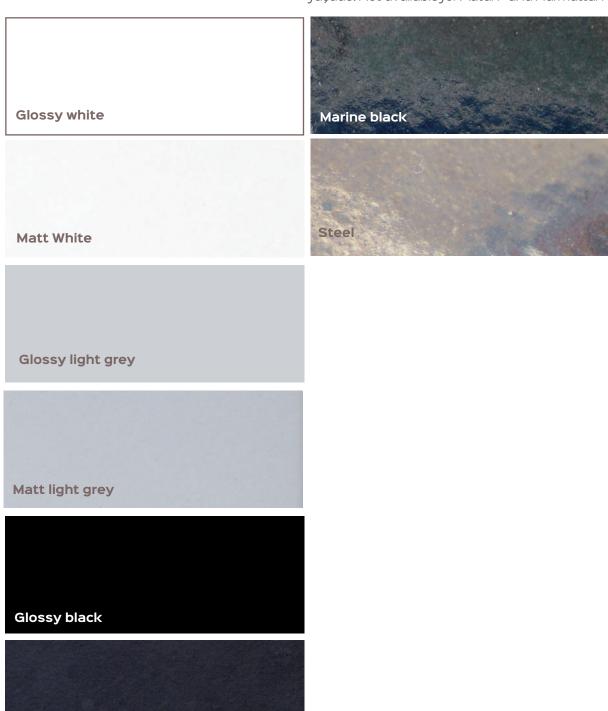
THE NEUTRA COLLECTION

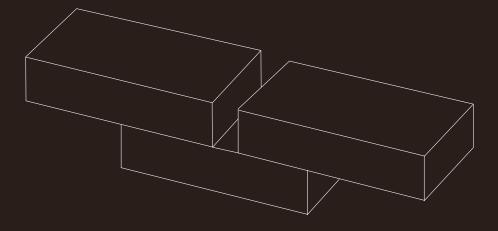
Matt black

Neutral and stylish photographic colours

THE VIVA COLLECTION

Lively colours that change and vibrate with the façade. Not available for Autan® and Harmattan®





WALL BRICKS RANGE

To beautify your walls, Terreal offers a complete range of clay brick and brick slips in a wide range of colours, sizes and aspects. Aesthetic and easy to install, these products allow you the most creative achievements. Smooth, sanded, hand-moulded or glazed finish in a wide choice of colours, clay bricks are a true inspiration source in a practical and economical format.

BRICKS AND BRICK SLIPS







ADVANTAGES

- Simple and fast installation
- A wide variety of formats
- 3 Skin aspects : classic, hand-moulded, glazed
- Fire resistant
- Unparalleled durability of terracotta



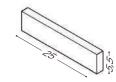


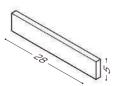


Classic Hand-mouled

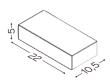






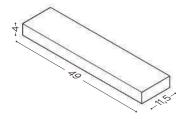














FORMAT	BRICK	SLIPS	CORNER B	RICK SLIPS	SOLID BRICKS	MULOT	PERFORATED MULOT
Réf.	PL01	PL02	PL12	PL13	B01	M16	M01
Dimensions L x TH X H.	22 x 1,4 x 5	28 x 1,4 x 5	22 x 10,5 x 1,5 x 5	28 x 14 x 1,5 x 5	22 x 10,5 x 5	22 x 5 x 5	22 x 5 x 5
weight / unit	0,3	0,4	0,4	0,5	2,4	1,1	0,75
Qty./m2	72	57	17	17	72	72	72
Qty. / pallets	3240	2240	1920	1280	345	1038	1296
COULOURS AVAILABLE							
Champagne RQ	0	•	0	0			
Pink RQ	•	•	•	•	•		
Champagne RQ	•	•	•	•			
Red-orange RQ	•	•	•	•	•	•	•
Red RQ RQ	•	•	•	•	0	6	•
Violine RQ	0	•	•	•			
Stone colour RQ	•	•	•	•			
Beige RQ	•	•	•	•			
Pearl grey RQ	•	•	•	•			
Brown RQ	©	©	©	©			
Ebony RQ	•	•	•	•			
Jasmin RQ	0	•	•	•	•		
Biscuit mat RQ	•	•	•	•	•		
Magnolia RQ	•	•	©	•	©		
White englobe	•	•	•	•			
Black englobe RQ	•	•	©	0			
CHAMPAGNE R	Q	PINK RQ	RED ORAN	NGE RQ	RED RQ	V	IOLINE RQ
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STONE COLOR R	lQ .	BEIGE RQ	PEARL GR	REY RQ	BROWN RQ		BONY RQ
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JASMIN RQ	BIS	CUIT MAT RQ	MAGNOL	JA RQ	WHITE ENGOBE R	Q BLAC	K ENGOBE RQ
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HAND-MOULED

RANGE

PRODUCT	REF.	DIMENSIONS L X H CM	WEIGHT / UNIT. KG	QTY./M²	QTÉ,/PALLETS
Brick slips	PL06	25 x 2,5 x 5,5	0,5	59	1200
Corner brick slips	PL17	25 x 12 x 2,5 x 5,5	0,7	15	500
Solid brick	BM01	25 x 12 x 5,5	2,8	59	288













MAAX BRICK

PRODUCT	REF.	DIMENSIONS L X H CM	WEIGHT / UNIT. KG	QTÉ,/M²	QTÉ,/PALLETS
Solid brick MAAX	BM02	49x11,5x4	3,6	40	237



BM02

Terreal has been a key player in clay building materials for over 150 years.
Based on this unique experience, our group creates innovative solutions. for the building envelope, through 3 activities: roofing, façade decoration and structure.

TERREAL

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