

# General Catalogue / 2016



Not just for surfaces



Kitchen / Bathroom



Hospitality / Wellness



Indoor / Outdoor furniture



Boat interiors



Wall cladding



Not just for surfaces

/

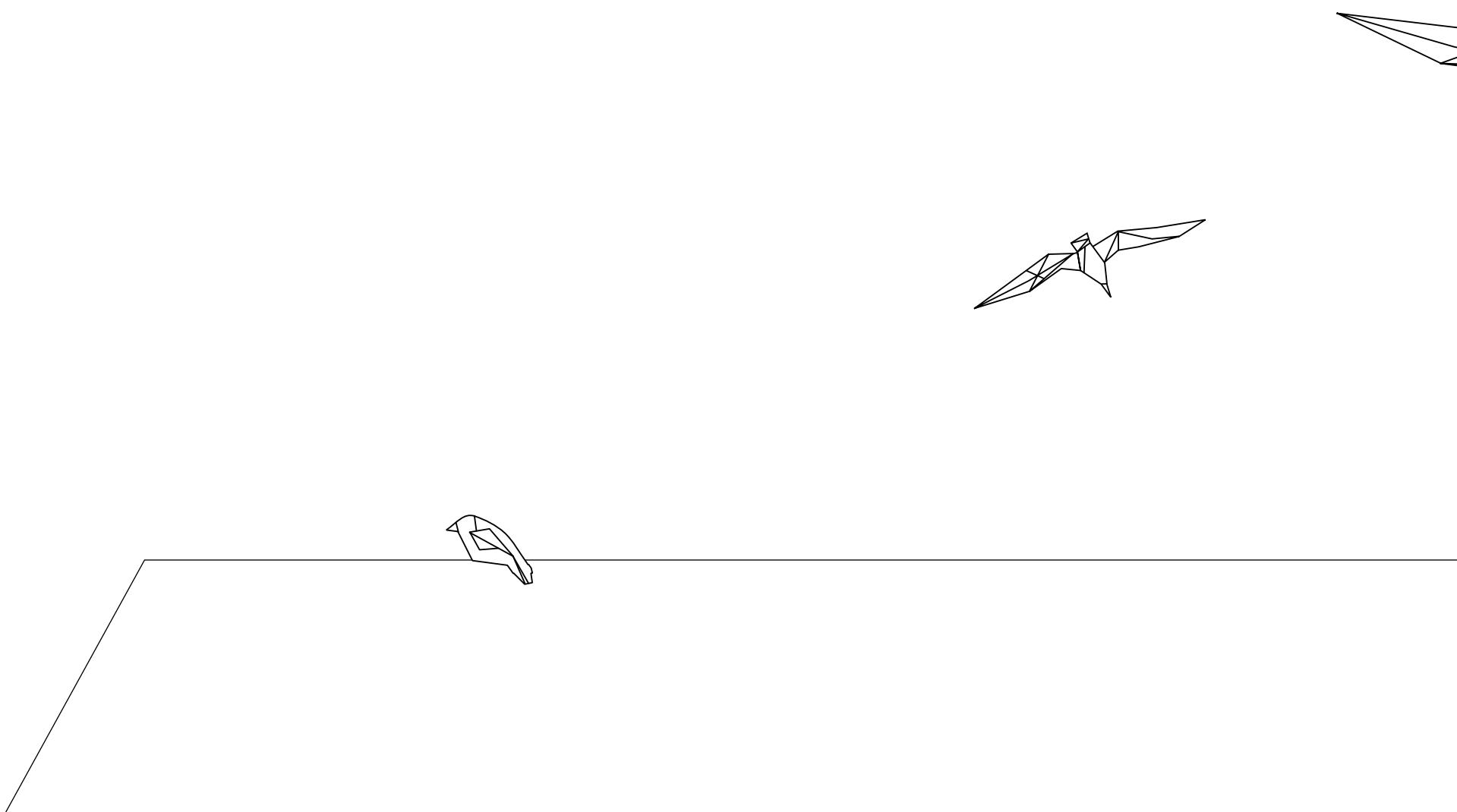
Una materia così innovativa da abbattere i confini tra superfici per architettura e arredamento.  
Forza più leggerezza, formati enormi e spessore sottile:  
per fare pavimenti, rivestimenti, arredi e finiture. Non solo superfici.

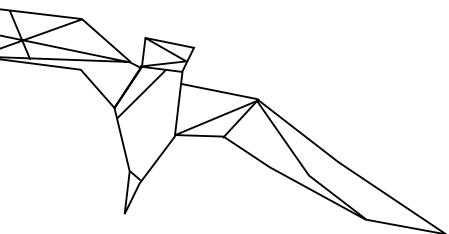
A material so innovative that it breaks down the barriers between surfaces for architecture and furnishing.  
Strength plus lightness, very large sizes and a low thickness to make floors, walls, furnishings and finishings. Not just surfaces.

Une matière si innovante qu'elle élimine les frontières entre surfaces dans le domaine de l'architecture et de l'ameublement.  
La force alliée à la légèreté, des formats géants et une grande finesse des épaisseurs : idéal pour réaliser des sols, revêtements, décos ou finitions. Et pas seulement des surfaces.

Eine Materie, die so innovativ ist, dass sie die Grenzen zwischen Oberflächen für die Architektur und die Einrichtung aufhebt.  
Stärke und Leichtigkeit, riesige Formate und dabei besonders dünn: für Fußböden, Verkleidungen, Einrichtungen und Details. Nicht nur Oberflächen.







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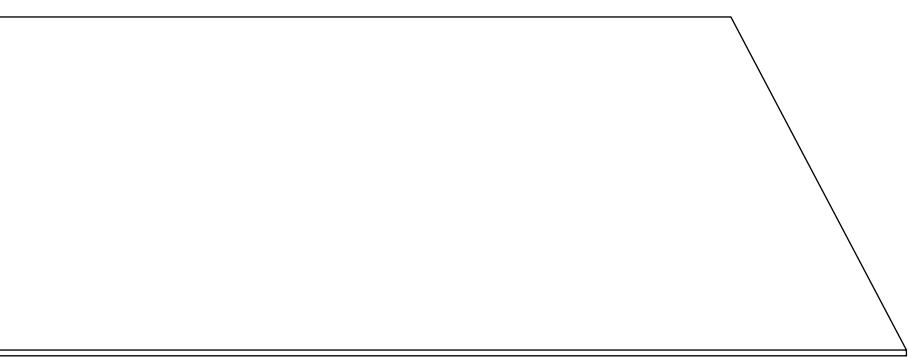
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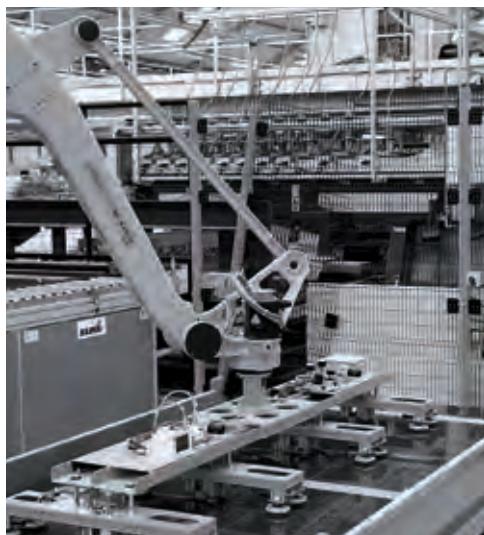
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2



1



## 1 KNOW HOW

Un gruppo che da oltre 50 anni è il punto di riferimento mondiale nella ceramica tecnica per grandi progetti.

Un groupe référence mondiale de la céramique technique pour les grands projets depuis plus de 50 ans.

A group that for over 50 years has been the world-level reference point in technical ceramics for large projects.

Eine Gruppe, die seit über 50 Jahren weltweit führend auf dem Sektor der technischen Keramik für große Projekte ist.

## 2 TECHNOLOGY

Forti investimenti per una struttura produttiva e logistica all'avanguardia, per offrire il meglio come qualità e design di prodotto e seguire forniture di qualsiasi entità in qualsiasi nazione.

De gros investissements pour une structure de production et de logistique d'avant-garde permettant de proposer des produits d'une qualité et d'un design d'excellence et d'effectuer des fournitures de n'importe quelle dimension partout dans le monde.



3



## 3 SERVICE

Heavy investments for an avant-garde production and logistic structure, so as to offer the best in terms of quality and product design and to follow supplies of any size in any country.

Starke Investitionen in eine absolut fortschrittliche Produktions- und Logistikstruktur, um beste Qualität und Produktdesign zu bieten und dabei Lieferungen jeder Größenordnung in der ganzen Welt vornehmen zu können.

Un reparto assistenza per progetti speciali che da decenni fornisce un servizio senza eguali, collaudato nei cantieri più impegnativi del mondo.

Un service d'assistance pour les projets spéciaux qui assure depuis des dizaines d'années des prestations uniques et ayant fait leur preuve sur les chantiers les plus contraignants du monde.

A service department for special projects that for decades has been providing unequalled service, put to the test at the most demanding sites in the world.

Der Kundendienst für Spezialprojekte, der seit Jahrzehnten einen unvergleichlichen Service bietet, der auf den schwierigsten Baustellen der Welt geprüft wurde.



# / X-large slabs

320x160 CM 0,6 CM  
BEYOND IMAGINATION

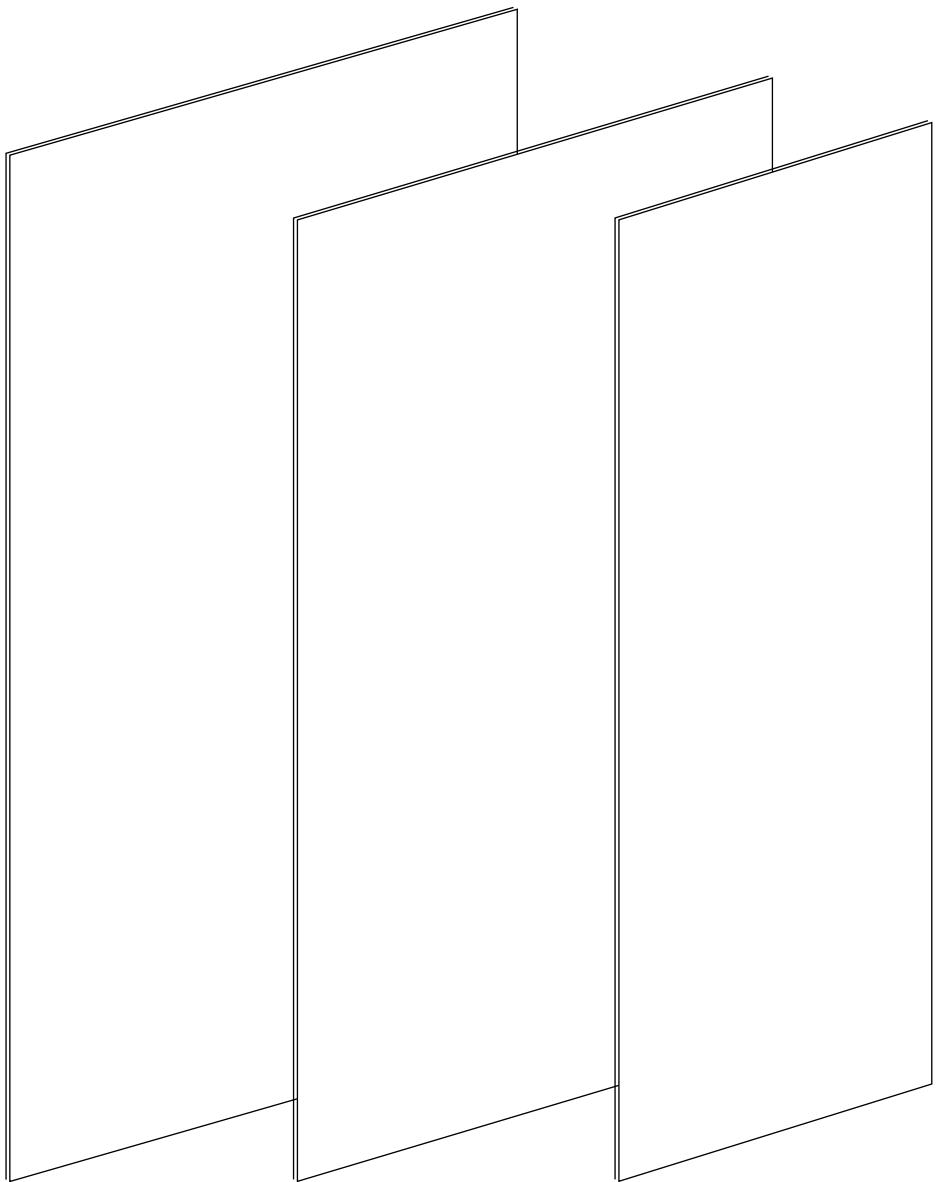
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Lastre in ceramica tecnica fino a 320x160x0,6 cm. Omogenee, eterne, inalterabili, grandi, sottili e perfettamente belle.

Technical ceramic tiles measuring up to 320 x 160 x 0.6 cm. Uniform, eternal, non-degradable, large, thin and perfectly beautiful.

Carrelages grands formats en céramique technique jusqu'à 320x160x0,6 cm. Homogènes, éternels, inaltérables, grands, fins et d'une beauté parfaite.

Platten aus technischer Keramik bis zu 320x160x0,6 cm. Homogen, ewig, unveränderbar, groß, dünn und von perfekter Schönheit.



320x160\*  
128"x64"

300x150  
120"x60"

300x100  
120"x40"

\*Available upon request. Disponibile su richiesta. Réalisable sur demande. Verfügbar auf Anfrage

Maxi lastre e formati modulari per qualsiasi pavimento e rivestimento, ma anche per vestire il design.

Con **HILITE** tutto è realizzabile: dalle pareti di un grattacielo al tavolo per il giardino.

Carrelages maxi et formats modulaires parfaits non seulement pour tous les revêtements de mur ou de sol mais aussi pour habiller le design.  
Avec **HILITE**, tout est possible : des murs d'un gratte-ciel à la table de jardin.

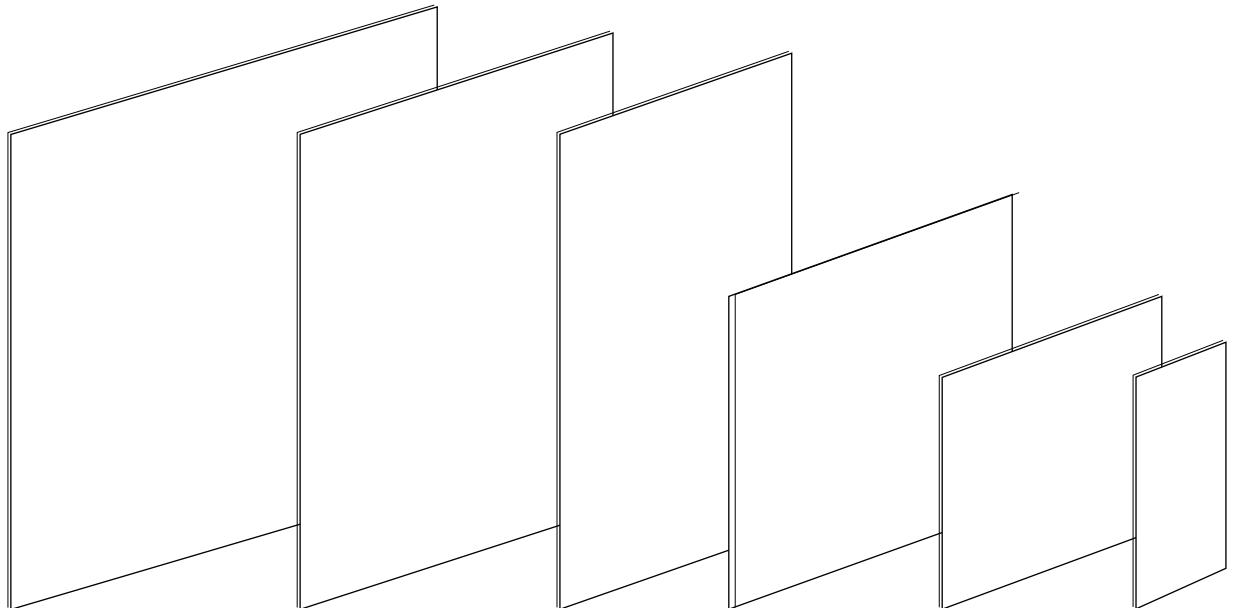
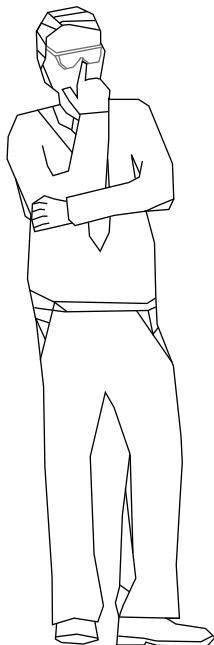


# / Size range

THE SIZE  
AND SHAPE  
YOU NEED

☒ 6 MM

☒ 10 MM\*



150x150  
60"x60"

150x100  
60"x40"

150x75  
60"x30"

100x100  
40"x40"

75x75  
30"x30"

75x37,5  
30"x15"

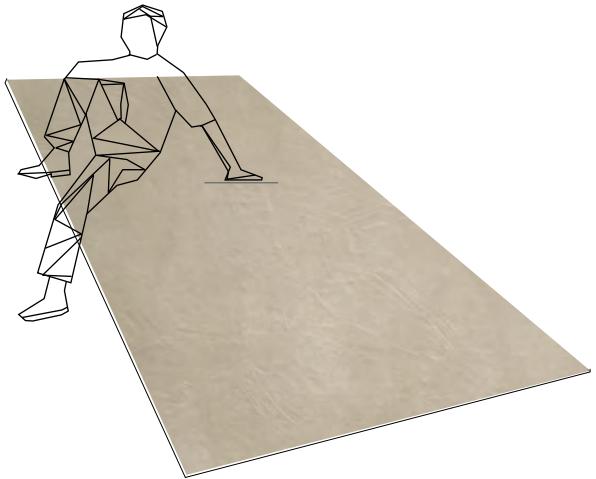
\* Available upon request. Disponibile su richiesta. Réalisable sur demande. Verfügbar auf Anfrage.

Large-size tiles and modular formats for any flooring or wall, but also for dressing a design.

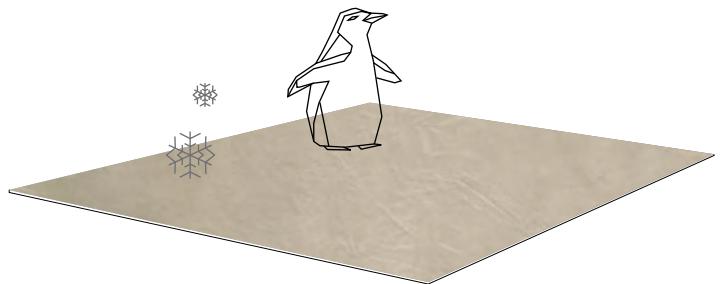
With **HILITE** everything can be made: from the walls of a skyscraper to a garden table.

Maxiplatten und modulare Formate für jede Art von Fußboden und Verkleidung, ideal auch für Design.

Mit **HILITE** kann man alles machen, von den Wänden eines Hochhauses bis zum Gartentisch.



Wear resistant



Frost proof



Stain proof



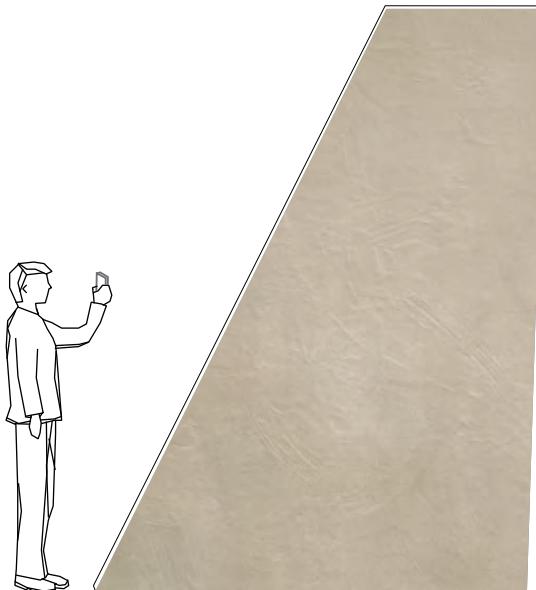
Weather proof

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**HI**LITE è un materiale innovativo realizzato con materie prime naturali di altissima qualità e tecnologie d'avanguardia, ed offre le caratteristiche tecniche e qualitative del porcellanato. Le lastre di grandi dimensioni a spessore sottile esaltano il design essenziale e contemporaneo, per un materiale di grande versatilità che non teme usura e intemperie.

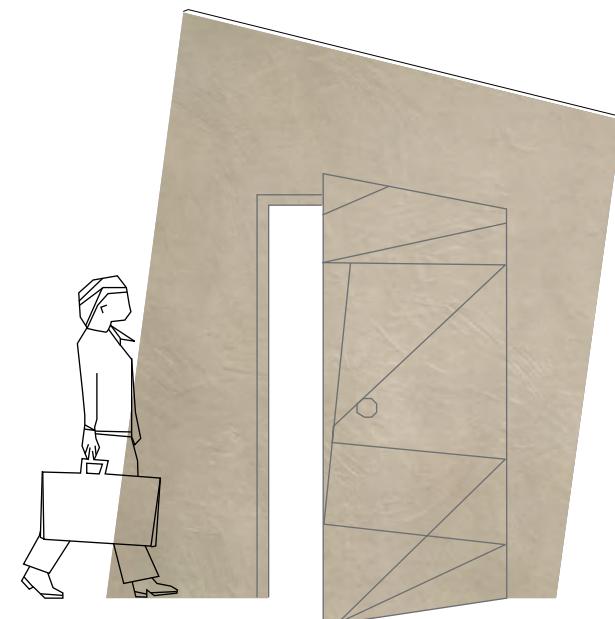
**HI**LITE est un matériau innovant réalisé à partir de matières premières naturelles d'excellence et à l'aide de technologies d'avant-garde. Il présente toutes les caractéristiques techniques et qualitatives du grès cérame. Les carrelages grands formats d'épaisseur fine permettent de mettre en valeur les espaces au design essentiel et contemporain. Ce matériau très polyvalent ne craint ni l'usure ni les intempéries.

/ High performance



STRENGTH  
AND BEAUTY.  
TOGETHER.

Fully customizable



Outstanding beauty

Versatile

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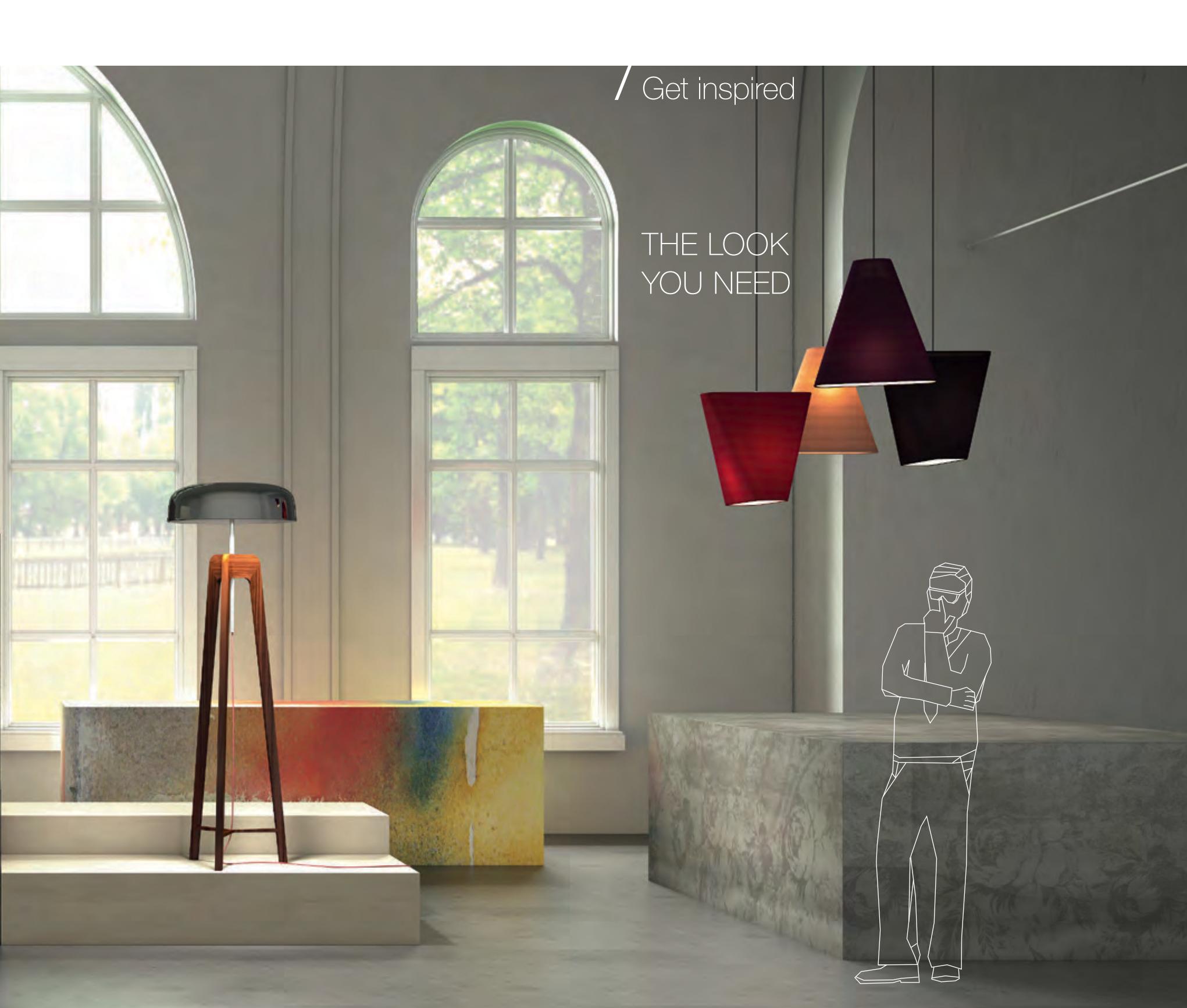
**HI**LITE is an innovative material made with very high quality natural raw materials and using advanced technologies. It offers the technical and qualitative characteristics of porcelain. The large-size but thin tiles show off the best of simple and contemporary design, for a material of great versatility that does not fear wear and weathering.

**HI**LITE ist ein innovatives Material aus natürlichen Rohstoffen höchster Qualität und mit fortschrittlichsten Technologien hergestellt – mit den technischen und qualitativen Eigenschaften des Feinsteinzeugs. Die großformatigen und dabei sehr dünnen Platten betonen das essentielle und zeitgenössische Design. Dies alles bei einem sehr vielseitigen, verschleiß- und witterfesten Material.



**HI**LITE propone tinte neutre e raffinate, superfici materiche con effetto resina o cemento, riflessi metallici, texture decorative e grafiche d'arte a vividi colori. Ispirazioni e suggestioni in grandi lastre per vestire di nuove materie l'architettura e l'arredamento contemporaneo.

**HI**LITE se caractérise par des teintes neutres et raffinées, des surfaces très physiques à effet résine ou béton, des reflets métalliques, des textures décoratives et des motifs artistiques aux couleurs vives. Autant d'idées et d'inspirations pouvant s'exprimer à travers les carrelages grands formats pour parer de nouvelles matières l'architecture et la décoration contemporaines.



/ Get inspired

THE LOOK  
YOU NEED

**HI**LITE proposes neutral and refined colours, textural surfaces with resin or concrete effects, metal glints, decorative textures and artistic graphics featuring lively colours. Inspirations and suggestions on large tiles to dress architecture and contemporary furnishing with new materials.

**HI**LITE bietet neutrale und ausgesuchte Farbtöne, stofflich geprägte Oberflächen in Harz- oder Zementoptik, metallische Reflexe, dekorative Texturen und bunte Kunstgrafiken. Inspiration und Stimmung in großen Platten, um die Architektur und die zeitgenössische Einrichtung mit neuen Materialien auszustatten.

## Avenue xxl

2 surfaces finishes

NATURALE

Natural

Naturel

Naturbelassen

PRELUCIDATA

Pre-Polished

Prépoli

Halbgänzend



IVORY



SILVER



PLUMB



AMBER

## Metal xxl

2 surfaces finishes

METAL

CHROME



WHITE



CINIS WHITE



PATCH WHITE



GREY



CINIS GREY

## / Color range

Artsy



COLORE ITALIANO



MISTERO BLU



RIBBON



Creazioni grafiche dell'artista Erio Carnevali, in tre soggetti formato 150x300. Per rivestire gli interni in modo unico.

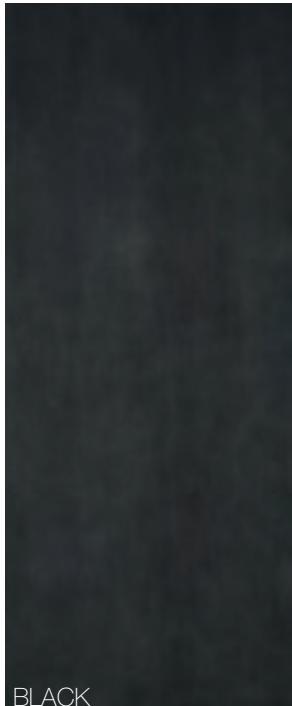
Graphic creations by the artist Erio Carnevali, in three subjects featuring a 150 x 300 size. To line interiors in a unique manner.

Créations graphiques de l'artiste Erio Carnevali, en trois sujets format 150x300. Pour des revêtements d'intérieur uniques.

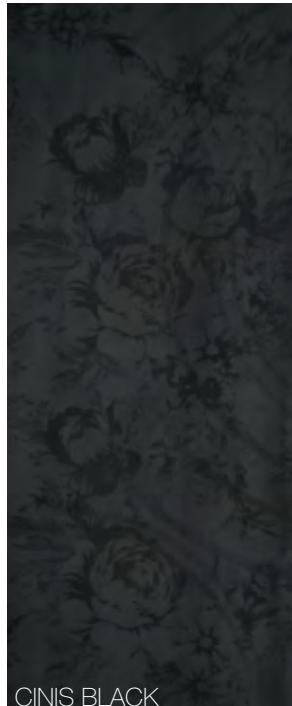
Grafische Kreationen des Künstlers Erio Carnevali, drei Themen im Format 150x300. Für eine einzigartige Innengestaltung.



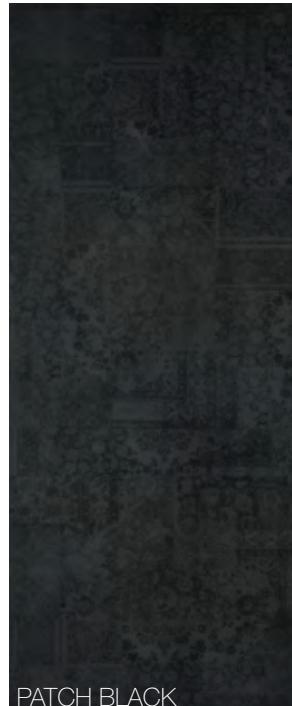
PATCH GREY



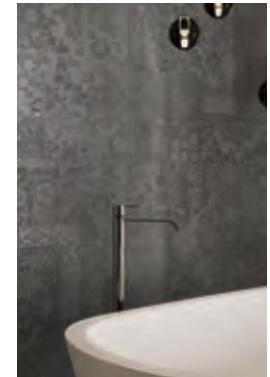
BLACK



CINIS BLACK



PATCH BLACK

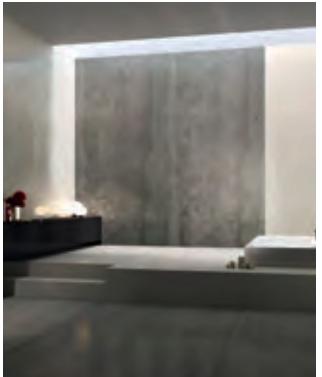


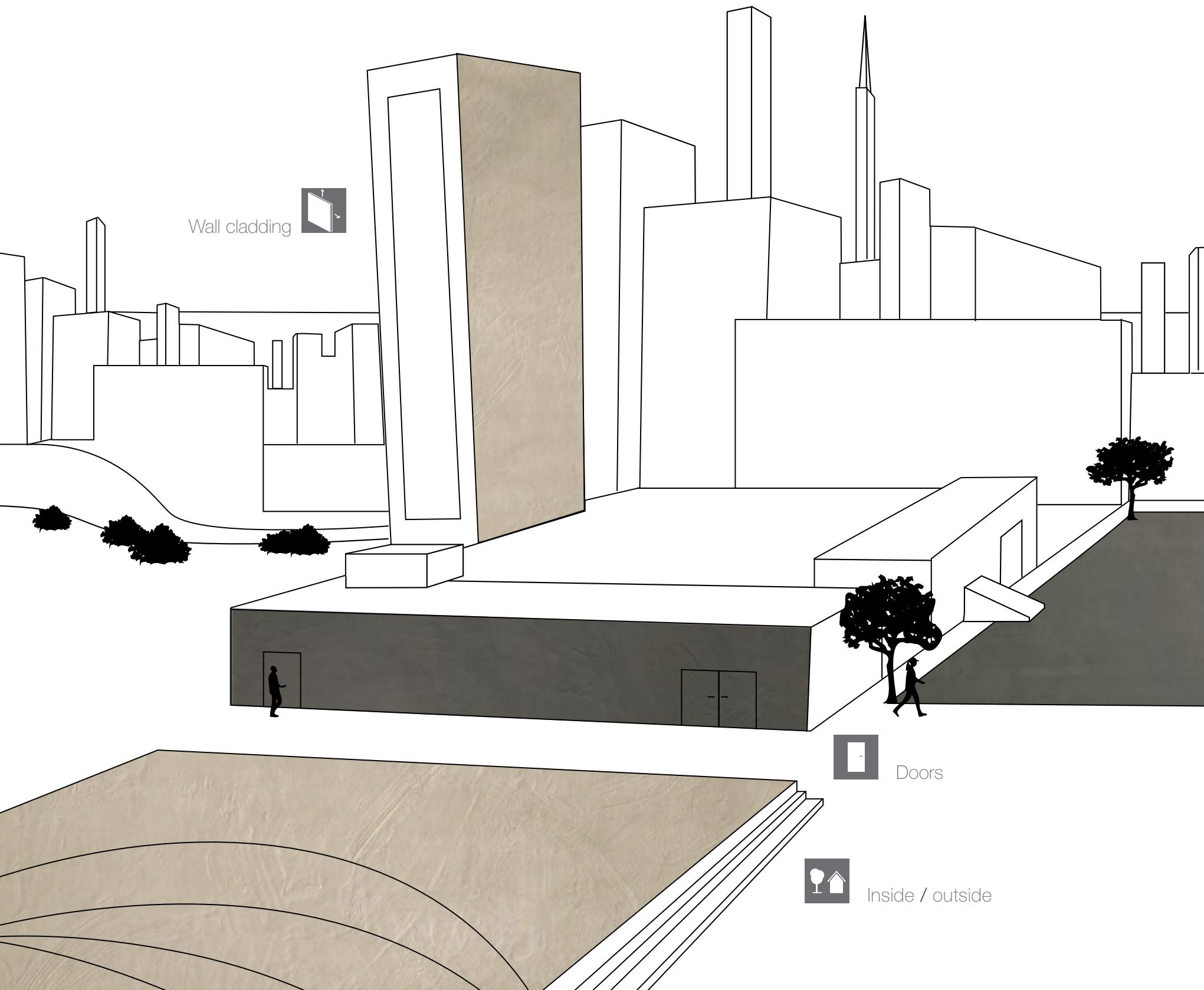
Due diversi pattern decorativi tono su tono, sui tre colori in gamma.

Two different decorative patterns in matching tones, in the three colours in the range.

Deux motifs décoratifs différents ton sur ton déclinés dans les trois couleurs de la gamme.

Zwei verschiedene Ton-in-Ton deklinierte Deko-Muster bei drei Farben der Palette.





Lastre così innovative e versatili da abbattere i confini tra superfici per architettura e arredamento, tra interno ed esterno.  
Cresce la libertà di progettare, con soluzioni fino a ieri impossibili.

Des carreaux grands formats si innovants et polyvalents qu'ils éliminent non seulement les frontières entre les surfaces dans l'architecture et l'ameublement mais aussi entre intérieur et extérieur.  
Une liberté de créer multipliée avec des solutions impossibles jusqu'à hier.

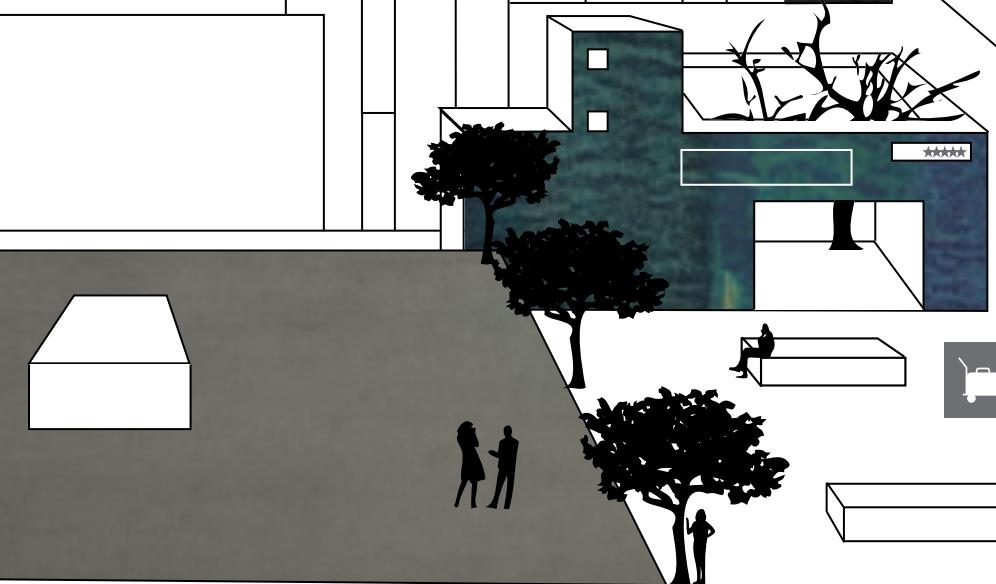
## / Applications



Floor / Wall



Boat interior design



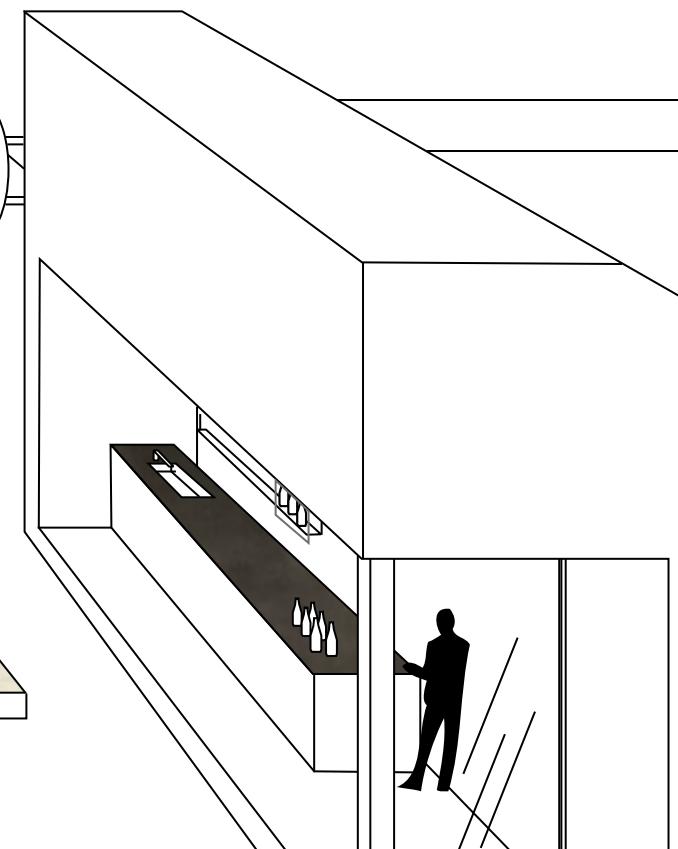
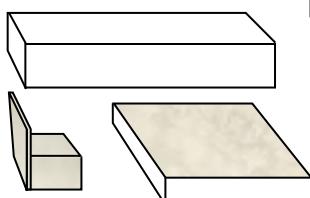
Hotel / Wellness



Indoor / outdoor furniture



Counter top



Tiles so innovative and versatile that they break down the barriers between surfaces for architecture and furnishing, between indoor and outdoor use. The freedom to design grows, with solutions that were impossible until yesterday.

Diese Platten sind so innovativ und vielseitig, dass sie die Grenzen zwischen Oberflächen für die Architektur und die Einrichtung, zwischen Innen und Außen aufheben. So steigt die Gestaltungsfreiheit mit Lösungen, die gestern noch unmöglich erschienen.



## Kitchen / Bathroom



Wall\_Avenue XXL Plumb  
Floor\_Avenue XXL Silver  
Counter top\_Avenue XXL Silver  
Furniture\_Avenue XXL Silver



Wall\_FMG Maxfine Marmi Bianco Venato Extra  
Floor\_Avenue XXL Plumb\_FMG Maxfine Wood180 Graphite  
Counter top\_Avenue XXL Plumb  
Furniture\_Avenue XXL Plumb\_FMG Maxfine Marmi Bianco Venato Extra



Wall\_Artsy Ribbon\_Metal XXL Grey Metal  
Floor\_Metal XXL Grey Metal





Wall\_Metal XXL White Metal\_Metal XXL Grey Patch  
Floor\_Metal XXL White Metal\_Metal XXL Grey Metal



## Hospitality / Wellness



Wall\_Avenue XXL Amber\_Avenue XXL Ivory  
Floor\_Avenue XXL Amber



Floor\_Metal XXL Grey Chrome



Wall\_Artsy Ribbon\_Metal XXL White Chrome  
Floor\_Metal XXL White Chrome



Wall\_FMG Maxfine Wood180 Caramel\_Avenue XXL Amber  
Floor\_Avenue XXL Ivory  
Door\_Avenue XXL Ivory  
Vanity top\_Avenue XXL Amber  
Furniture\_Avenue XXL Amber



## Indoor / Outdoor furniture



Wall\_FMGM Maxfine Marmi Eramosa\_Avenue XXL Ivory  
Floor\_FMGM Maxfine Marmi Eramosa  
Door\_Avenue XXL Ivory  
Vanity top\_FMGM Maxfine Marmi Eramosa





Wall\_Artsy Colore Italiano  
Floor\_Metal XXL Black Metal



## Wall cladding



Wall\_Avenue XXL Ivory  
Floor\_Avenue XXL Amber



Facade\_Metal XXL Grey Metal



METAL XXL  
41



AVENUE XXL  
33



# / Collections



## AVENUE XXL

IVORY	/ 33
SILVER	/ 35
PLUMB	/ 37
AMBER	/ 39

## METAL XXL

WHITE	/ 41
CINIS/PATCH WHITE	/ 43
GREY	/ 45
CINIS/PATCH GREY	/ 47
BLACK	/ 49
CINIS/PATCH BLACK	/ 51

## ARTSY

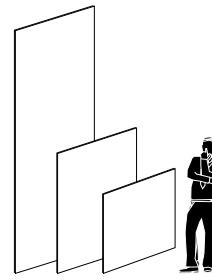
COLORE ITALIANO	/ 52
MISTERO BLU	/ 52
RIBBON	/ 53



ARTSY  
**53**



IVORY  
AVENUE XXL



300x100 . 120"x40"

150x100 . 60"x40"

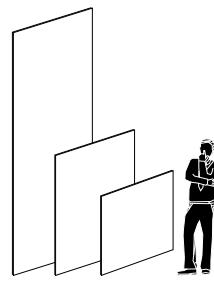
100x100 . 40"x40"

X 6 MM

N NATURALE  
E SQUADRATO  
PL PRELUCIDATO  
E SQUADRATO



SILVER  
AVENUE XXL



300x100 . 120"x40"

150x100 . 60"x40"

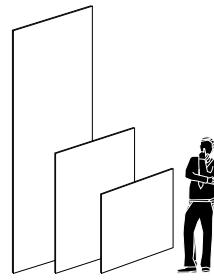
100x100 . 40"x40"

X 6 MM

N NATURALE  
E SQUADRATO  
PL PRELUCIDATO  
E SQUADRATO



PLUMB  
AVENUE XXL



300x100 . 120"x40"

150x100 . 60"x40"

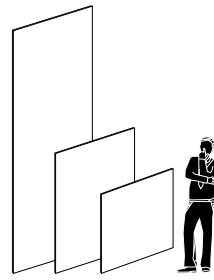
100x100 . 40"x40"

X 6 MM

N NATURALE  
E SQUADRATO  
PL PRELUCIDATO  
E SQUADRATO



AMBER  
AVENUE XXL



300x100 . 120"x40"

150x100 . 60"x40"

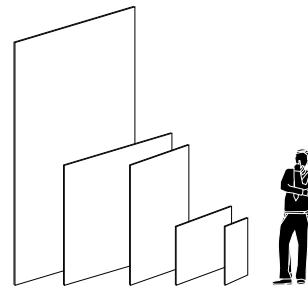
100x100 . 40"x40"

X 6 MM

N NATURALE  
E SQUADRATO  
PL PRELUCIDATO  
E SQUADRATO



WHITE  
METAL XXL



300x150 . 120"x60"

150x150 . 60"x60"

150x75 . 60"x30"

75x75 . 30"x30"

75x37,5 . 30"x15"

X 6 MM

M METAL  
E SQUADRATO  
CH CHROME  
E SQUADRATO

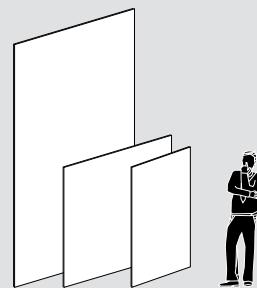


CINIS

PATCH



## CINIS/PATCH WHITE METAL XXL



300x150 . 120"x60"

150x150 . 60"x60"

150x75 . 60"x30"

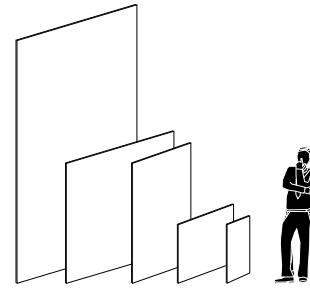
6 MM

METAL  
E SQUADRATO

CHROME  
E SQUADRATO



GREY  
METAL XXL



300x150 . 120"x60"

150x150 . 60"x60"

150x75 . 60"x30"

75x75 . 30"x30"

75x37,5 . 30"x15"

X 6 MM

M METAL  
E SQUADRATO

CH CHROME  
E SQUADRATO



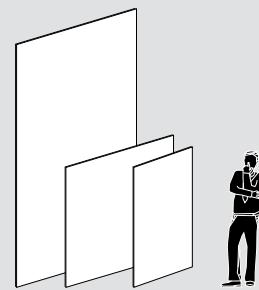
CINIS



PATCH



## CINIS/PATCH GREY METAL XXL



300x150 . 120"x60"

150x150 . 60"x60"

150x75 . 60"x30"

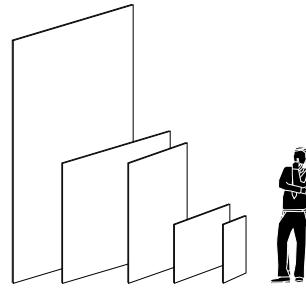
6 MM

METAL  
E SQUADRATO

CHROME  
E SQUADRATO



**BLACK  
METAL XXL**



300x150 . 120"x60"

150x150 . 60"x60"

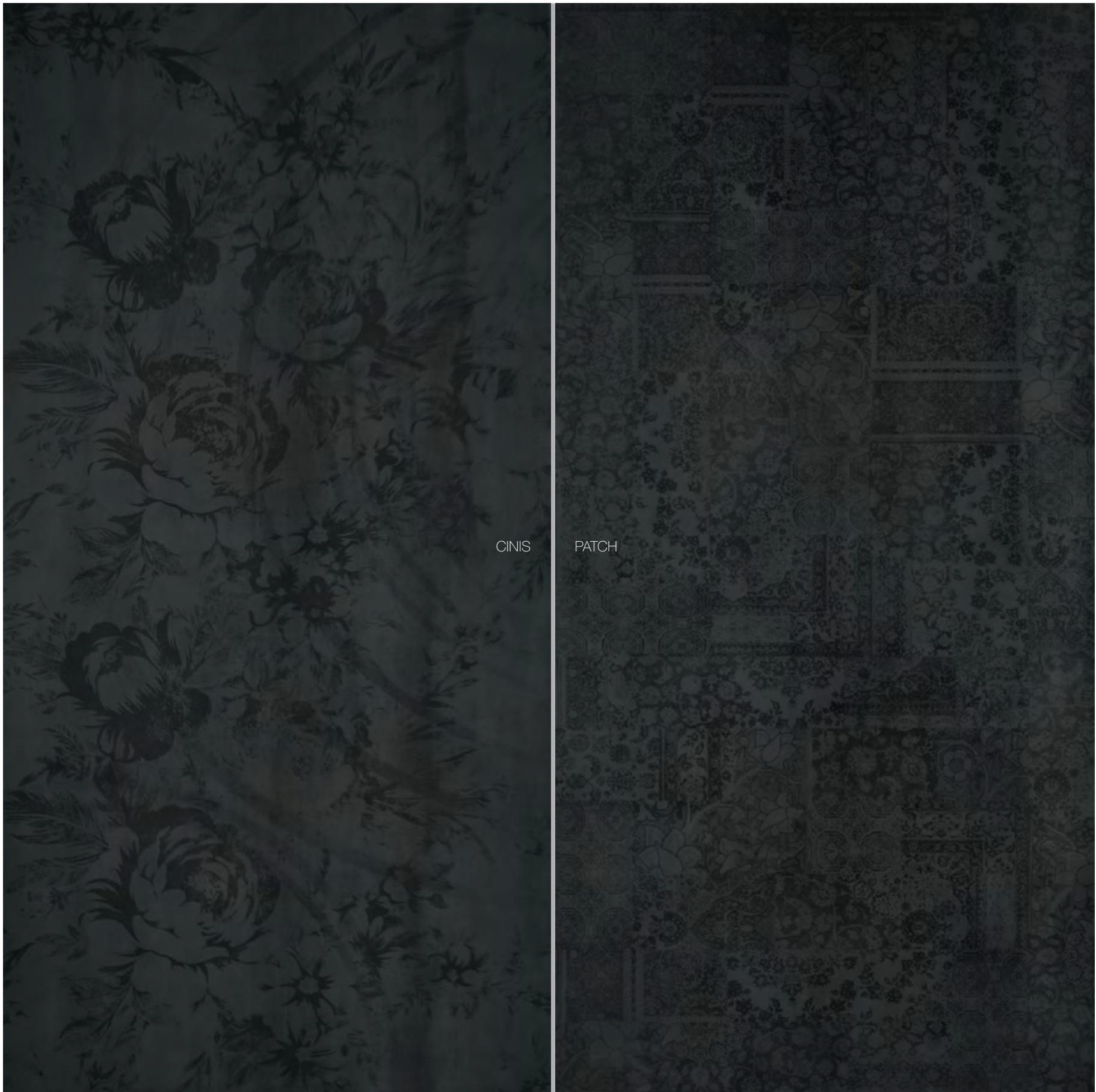
150x75 . 60"x30"

75x75 . 30"x30"

75x37,5 . 30"x15"

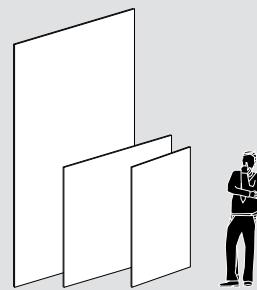
**X** 6 MM

**M** METAL  
E SQUADRATO  
**CH** CHROME  
E SQUADRATO





## CINIS/PATCH BLACK METAL XXL



300x150 . 120"x60"

150x150 . 60"x60"

150x75 . 60"x30"

X 6 MM

M METAL  
E SQUADRATO  
CH CHROME  
E SQUADRATO

## COLORE ITALIANO

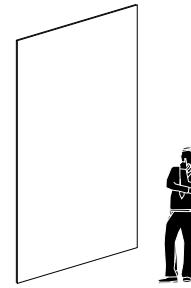
Design Erio Carnevali

## MISTERO BLU

Design Erio Carnevali

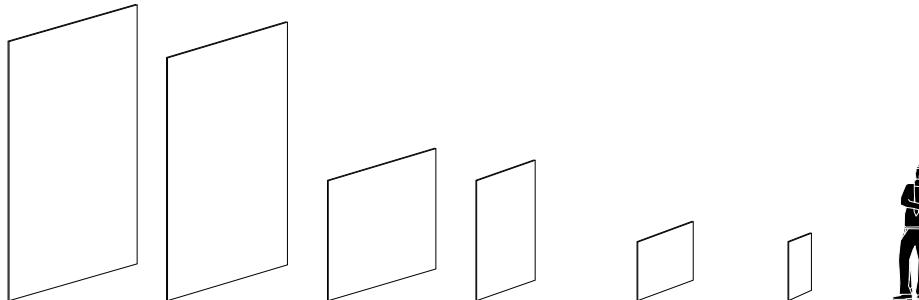
RIBBON

ARTSY



300x150 . 120"x60"

X 6 MM



METAL XXL  6 MM      320x160\*  
128"x64"

300x150  
120"x60"

150x150  
60"x60"

150x75  
60"x30"

75x75  
30"x30"

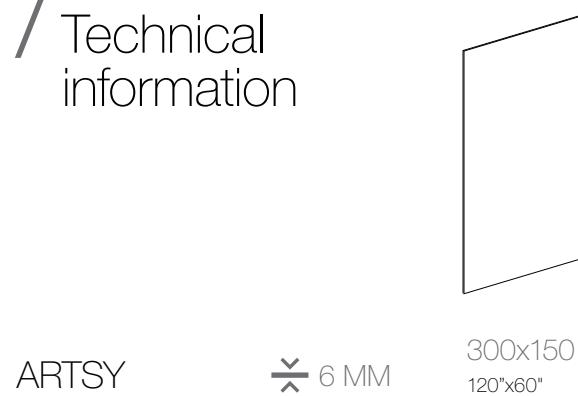
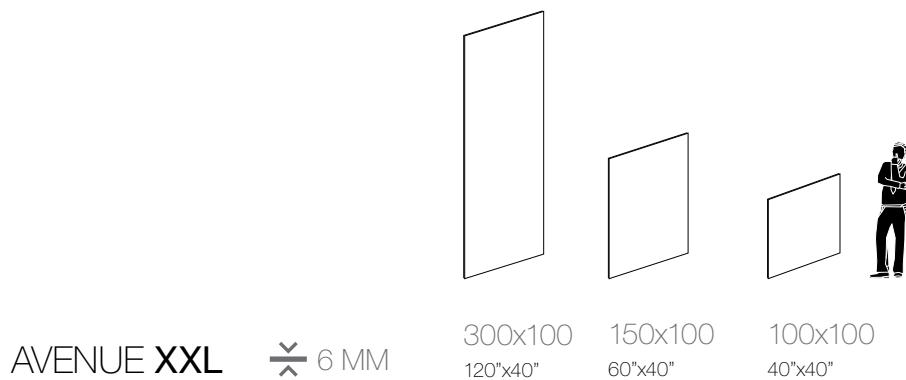
75x37,5  
30"x15"

WHITE	<b>M</b>	*	HI315001XL	HI150001XL	HI175001XL	HI75001XL	HI737001XL
	<b>CH</b>	*	HI315004XL	HI150004XL	HI175004XL	HI75004XL	HI737004XL
WHITE CINIS	<b>M</b>	*	HI315013XL	HI150013XL	HI175013XL	-	-
	<b>CH</b>	*	HI315016XL	HI150016XL	HI175016XL	-	-
WHITE PATCH	<b>M</b>	*	HI315007XL	HI150007XL	HI175007XL	-	-
	<b>CH</b>	*	HI315010XL	HI150010XL	HI175010XL	-	-
GREY	<b>M</b>	*	HI315002XL	HI150002XL	HI175002XL	HI75002XL	HI737002XL
	<b>CH</b>	*	HI315005XL	HI150005XL	HI175005XL	HI75005XL	HI737005XL
GREY CINIS	<b>M</b>	*	HI315014XL	HI150014XL	HI175014XL	-	-
	<b>CH</b>	*	HI315017XL	HI150017XL	HI175017XL	-	-
GREY PATCH	<b>M</b>	*	HI315008XL	HI150008XL	HI175008XL	-	-
	<b>CH</b>	*	HI315011XL	HI150011XL	HI175011XL	-	-
BLACK	<b>M</b>	*	HI315003XL	HI150003XL	HI175003XL	HI75003XL	HI737003XL
	<b>CH</b>	*	HI315006XL	HI150006XL	HI175006XL	HI75006XL	HI737006XL
BLACK CINIS	<b>M</b>	*	HI315015XL	HI150015XL	HI175015XL	-	-
	<b>CH</b>	*	HI315018XL	HI150018XL	HI175018XL	-	-
BLACK PATCH	<b>M</b>	*	HI315009XL	HI150009XL	HI175009XL	-	-
	<b>CH</b>	*	HI315012XL	HI150012XL	HI175012XL	-	-

\* Disponibile su richiesta. | Available upon request. | Réalisable sur demande. | Verfügbar auf Anfrage.

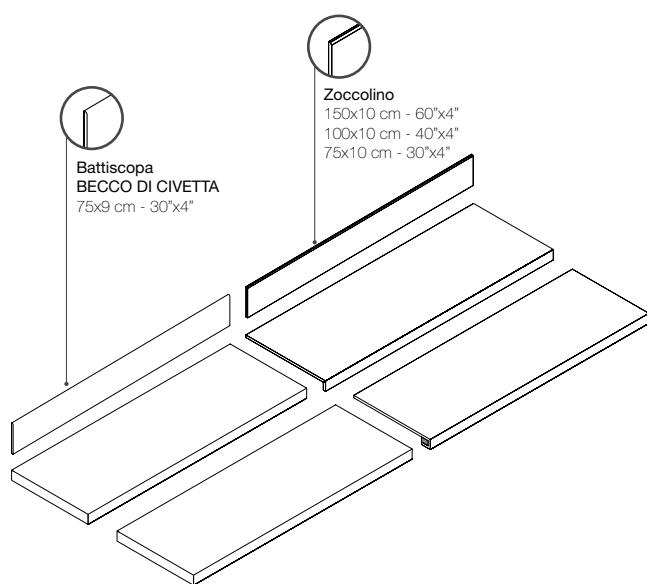
 10 MM      Disponibile su richiesta. | Available upon request. | Réalisable sur demande. | Verfügbar auf Anfrage.

## / Technical information



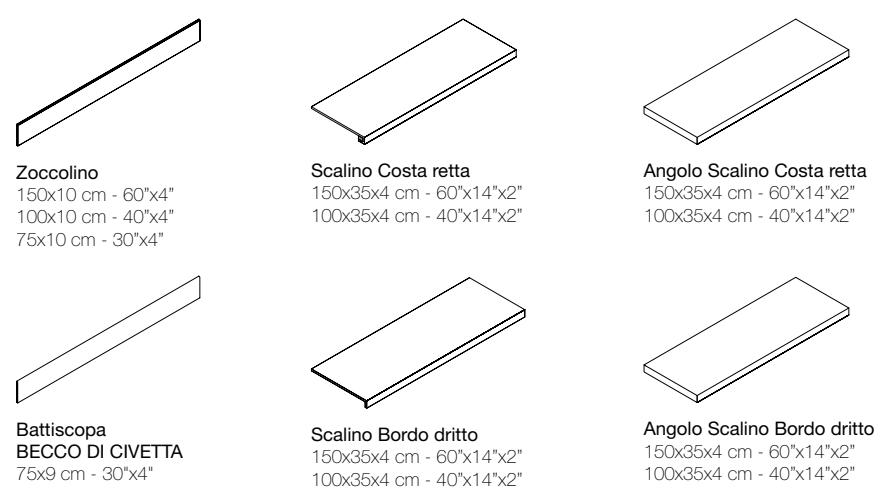
\*\* Lastra con firma. | Signed slab.

10 MM Disponibile su richiesta. | Available upon request. | Réalisable sur demande. | Verfügbar auf Anfrage.



## / Trim pieces

Disponibile su richiesta. | Available upon request. | Réalisable sur demande. | Verfügbar auf Anfrage.





## PAVIMENTO POSA TRADIZIONALE

La posa delle lastre **HI**LITE richiede condizioni di posa simili a quelle richieste per lastre in formato tradizionale. **HI**LITE richiede l'utilizzo della tecnica a doppia spalmatura, ovvero il collante deve essere applicato sia sul fondo di posa che sul retro della lastra.

Per la posa a pavimento, **HI**LITE richiede le migliori condizioni di sotterraneo:

- planarità;
- pulizia da polvere, detriti ed eliminazione di grumi di cemento;
- il fondo di posa deve essere omogeneo e avere già compiuto il ritiro igrometrico di maturazione;
- riparazione di eventuali fessurazioni;
- i dislivelli di planarità devono essere colmati con idonei prodotti di rasatura.

Strumentazione necessaria

- Collante in polvere a base cementizia a letto pieno di classe "C2E secondo le normative EN 12004 e S1 secondo la normativa EN 12002"
- spatola a denti quadri 3x3 mm e spatola a denti tondi 15 mm;
- telaio a ventosa per la movimentazione o biventosa
- battitore in plastica antirimbalzo 170x370 mm;
- sistema livellante: base + cuneo + pinza.

## Fasi di lavorazione

### INCOLLAGGIO A PAVIMENTO

- 1) Assicurarsi che la superficie da rivestire sia consistente, planare, priva di polvere e umi/grassi.
- 2) Utilizzare i collanti sopra descritti miscelati in base alle specifiche indicate nella scheda tecnica del collante prescelto.
- 3) Stendere il collante sulla superficie da rivestire con spatola a denti tondi 15 mm per un'area superiore di 5/10 cm rispetto alle dimensioni della lastra.
- 4) Con la lastra in posizione verticale sul telaio di movimentazione, stendere il collante sul retro della lastra con spatola a denti quadri 3x3 mm.
- 5) Con l'utilizzo del telaio a ventosa portare la lastra in posizione orizzontale e posarla.
- 6) Per garantire l'incollaggio uniforme della lastra, si deve utilizzare apposito battitore in plastica anti-imbalo 170x370 mm, effettuando una battitura dal centro verso i bordi per eliminare eventuali sacche d'aria fra il retro della lastra, il collante ed il fondo di posa.
- 7) Utilizzo di sistema livellante.

### SISTEMA LIVELLANTE

Il sistema livellante è volto a garantire con semplicità e rapidità pavimenti perfettamente levigati eliminando i dislivelli ("denti") tra le lastre. Il sistema levigante è vivamente consigliato per la posa delle lastre **HI**LITE.

Strumentazione necessaria

- Base;
- Cuneo;
- Pinza regolabile per installazione a pavimento / rivestimento.

## Applicazione del sistema levigante

Posizionamento della base:

- a) Dopo avere steso il collante inserire la base al di sotto della lastra **HI**LITE in corrispondenza dei 4 lati.
- b) In funzione del formato della lastra posizionare uno o più supporti per ogni lato della lastra.
- c) Posizionare la lastra.

Inserimento del cuneo:

- a) Inserire il cuneo nella feritoia del supporto facendo attenzione a non superare il punto di rottura.
- b) Per agevolare l'inserimento del cuneo si consiglia l'uso della pinza a trazione regolabile.

Eliminazione del supporto:

- a) A maturazione del collante avvenuta, la parte sporgente del supporto si separa dalla base battendo con il piede nella direzione della linea di fuga.

## TRADITIONAL FLOOR LAYING

Laying **HI**LITE slabs requires similar laying conditions to those required for traditional format slabs. **HI**LITE requires the adhesive to be applied both on the setting bed and on the back of the slab.

**HI**LITE slabs for flooring require the following conditions:

- A flat surface;
- Clean and free from dust, scraps and any lumps of cement;
- The setting bed must be uniform and have already undergone the drying shrinkage process;
- Repair of any cracks;
- Any uneven parts on the surface must be filled with suitable levelling compounds.

Instruments required

- Cement-based powder adhesive for full spread, class "C2E according to EN12004 and S1 according to EN12002 standards";
- 3x3 mm square toothed trowel and 15 mm round toothed trowel;
- Frame with suction cups for handling or double suction cups;
- Non-bounce plastic mallet 170x370 mm;
- Levelling system: base clip + wedge + pliers.

## Processing stages

### BONDING TO THE FLOOR

- 1) Ensure that the surface to be covered is solid, flat and free from dust and oil/grease.
- 2) Use the adhesives described above mixed according to the specifications indicated in the technical data sheet of the chosen adhesive.
- 3) Spread the adhesive onto the surface to be covered with a 15 mm round toothed trowel across an area of 5/10 cm more than the dimensions of the slab.
- 4) With the slab in a vertical position on the handling frame, spread the adhesive onto the back of the slab with a 3x3 mm square toothed trowel.
- 5) Using the frame with suction cups, bring the slab into a horizontal position and lay it.
- 6) To guarantee uniform bonding of the slab, the special 170x370 mm non-bounce plastic mallet must be used, tapping from the middle towards the edges so as to remove any air pockets between the back of the slab, the adhesive and the surface to be tiled.
- 7) Using the levelling system.

### LEVELLING SYSTEM

The levelling system aims to guarantee perfectly levelled floors simply and quickly, eliminating any unevenness between the slabs. The levelling system is strongly recommended for laying **HI**LITE slabs.

Instruments required

- Base clip;
- Wedge;
- Adjustable pliers for installing floors/wall tiles.

## Application of the levelling system

Positioning the base clip:

- a) After spreading the adhesive, insert the base clip below the slab on the 4 sides.
- b) Depending on the format of the slab, position one or more supports for each side of the slab.
- c) Position the slab.

Inserting the wedge:

- a) Insert the wedge in the slot of the support, taking care not to exceed the breaking point.
- b) To make inserting the wedge easier, it is recommended to use the adjustable pliers.

Removing the support:

- a) Once the adhesive has dried, the protruding part of the support can be separated from the base clip by tapping with your foot in line with the joint.



## / Installation suggestions

### TRADITIONNELLE BODENVERLEGUNG

Die Verlegung von **HILITE** - Platten erfordert ähnliche Bedingungen wie jene von Platten traditionellen Formats. **HILITE** erfordert die Anwendung der Technik des doppelten Auftragens; das heißt, der Klebstoff wird sowohl auf den Untergrund als auch auf die Unterseite der Platte aufgetragen.

Für die Bodenverlegung erfordert **HILITE** die besten Untergrundbedingungen:

- Ebenheit;
- Keinerlei Staub, Schutt oder Zementklumpen;
- Die zu verlegende Fläche muss homogen sein und keine Restfeuchte verzeichnen;
- Reparatur eventueller Risse;
- Niveauunterschiede müssen mit entsprechenden Ausgleichsmitteln geebnet werden.

Notwendige Werkzeugausrüstung

- Klebstoff in Pulverform, auf Zementbasis im Vollbett der Klasse "C2E laut der Normen EN 12004 und S1 sowie der Norm EN 12002"
- Spachtel mit quadratischen Zacken, 3x3mm, und Spachtel mit runden Zacken, 15mm;
- Gestell mit Saugnäpfen oder Doppel-Saugnäpfe
- Prallfester Kunststoffhammer, 170x370 mm;
- Planierungssystem: Grundelement + Keil + Zange.

### Bearbeitungsphasen

#### AUFRAGEN DES KLEBSTOFFS AUF DEM BODEN

- 1) Sicherstellen, dass die zu verlegende Bodenfläche robust, eben, staub- und fettfrei ist.
- 2) Die oben beschriebenen Klebstoffe gemäß der, auf dem Etikett des gewählten Klebstoffs angegebenen Zusammenstellung mischen und anwenden.
- 3) Den Klebstoff auf die zu verlegende Fläche mittels des Spachtels mit runden 15 mm-Zacken auftragen, auf eine Fläche, die 5/10 cm größer ist als die der Platte selbst.
- 4) Die Platte mit dem Gestell mit Saugnäpfen in senkrechte Position bringen und den Klebstoff, mittels des Spachtels mit quadratischen 3x3mm-Zacken, auf die Unterseite auftragen.
- 5) Mittels des Gestells mit Saugnäpfen die Platte in waagrechte Position bringen und verlegen.
- 6) Um das gleichmäßige Verlegen der Platte zu garantieren, muss der prallfeste Kunststoffhammer 170x370 mm verwendet werden, indem man von der Mitte der Platte aus in Richtung Ränder klopft, um eventuelle Luftblasen zwischen der Unterseite der Platte, dem Klebstoff und dem Boden zu beseitigen.
- 7) Das Planierungssystem anwenden.

### PLANIERUNGSSYSTEM

Das Planierungssystem soll schnell und einfach perfekt geebnete Böden garantieren, indem es Niveauunterschiede ("Zacken") zwischen den Platten beseitigt. Das Planierungssystem wird für die Verlegung von **HILITE** - Platten wärmstens empfohlen.

Notwendige Werkzeugausrüstung

- Grundelement;
- Keil;
- Verstellbare Zange für Installationen an Boden/Wandverkleidungen.

### Anwendung des Planierungssystems

Positionierung des Grundelements:

- a) Nachdem der Klebstoff aufgetragen wurde, das Grundelement über der Platte, entsprechend der 4 Seiten, anbringen.
- b) Je nach Format der Platte, ein oder mehrere Träger auf jeder Seite der Platte anbringen.
- c) Die Platte positionieren.

Anbringen des Keils:

- a) Den Keil am Schlitz des Trägers anbringen und dabei Acht geben, nicht über den Bruchpunkt hinaus zu gehen.
- b) Um das Anbringen des Keils zu erleichtern, empfiehlt sich der Gebrauch der, mit Zug verstellbaren Zange.

Entfernen des Trägers:

- a) Sobald der Klebstoff fest ist, wird der hervorstehende Teil des Trägers vom Grundelement getrennt, indem man mit dem Fuß in Richtung der Fugenlinie schlägt.

### SOL, POSE TRADITIONNELLE

La pose des dalles exige des conditions de pose analogue à celles demandées pour les dalles **HILITE** de format traditionnel. **HILITE** exige la technique du double encollage: la colle doit être appliquée sur la sous-couche et au dos de la dalle.

Pour la pose au sol, **HILITE** exige les meilleures conditions de sous-couche :

- planéité
- dépoussiérage, suppression de débris et de grumeaux de béton
- la sous-couche doit être homogène et avoir déjà effectué le retrait hygrométrique de maturation
- réparation d'éventuelles fissurations
- les dénivélés de planéité doivent être comblés avec des produits de ragréage appropriés

Outils nécessaires

- ciment-colle en poudre à lit plein classe C2E selon les EN 12004 et S1 selon l'EN 12002
- spatule à dents carrées 3x3 mm et spatule à dents rondes 15 mm
- châssis à ventouse pour la manutention ou biventouse
- batteur en plastique anti-rebond 170x370 mm
- système de ragréage : base + coin + pince

### Phases d'exécution

#### ENCOLLAGE AU SOL

- 1) Assurez-vous que la surface à revêtir est consistante, plane, dépoussiérée, sans graisse/huile.
- 2) Utilisez les colles décrites plus haut mélangées selon les spécifications indiquées sur la fiche technique du produit choisi.
- 3) Étalez la colle sur la surface à revêtir à l'aide d'une spatule à dents rondes 15 mm, en débordant de la dalle de 5/10 cm.
- 4) En tenant la dalle à la verticale sur le châssis de manutention, étalez la colle à l'aide de la spatule à dents carrées 3x3 mm au dos de la dalle.
- 5) À l'aide du châssis à ventouse, mettez la dalle à l'horizontale et posez-la.
- 6) Pour garantir l'encollage uniforme de la dalle, vous devrez utiliser un batteur spécial en plastique anti-rebond 170x370 mm et battre du centre vers les bords pour chasser les bulles d'air coincées entre le dos de la dalle, la colle et la sous-couche.
- 7) Utilisation du système de ragréage.

### SYSTÈME DE RAGRÉAGE

Le système de ragréage est destiné à garantir, simplement et rapidement, des sols parfaitement mis de niveau en supprimant les dénivélés entre les dalles. Le système de ragréage est vivement conseillé pour la pose des dalles **HILITE**.

Outils nécessaires

- Base
- Coin
- Pince réglable pour pose au sol/ au mur

### Application du système de ragréage

Positionnement de la base:

- a) Après avoir étalé la colle, insérez la base sous la dalle **HILITE** des 4 côtés.
- b) En fonction du format de la dalle, positionnez un ou plusieurs supports de chaque côté de celle-ci.
- c) Positionnez la dalle.

Insertion du coin:

- a) Insérez le coin dans la fente du support en faisant attention à ne pas dépasser le point de rupture.
- b) Pour faciliter l'insertion du coin, il est conseillé d'utiliser la pince de traction réglable.

Élimination du support:

- a) Dès que la colle est arrivée à maturation, séparez de la base la partie qui dépasse du support en battant du pied dans la direction de la ligne de fuite.

## PULIZIA E MANUTENZIONE

**Premessa** Tutti i materiali FMG sono di facile pulizia e di semplice manutenzione. Una pulizia adeguata ne valorizza le caratteristiche estetiche donando ad ogni pavimento un'eccezionale brillantezza.

**Pulizia iniziale** È di basilare importanza e deve essere effettuata immediatamente dopo la posa, per eliminare completamente i residui cementizi derivanti dalle malte, i residui di collanti e i residui epossidici che possono provenire dalle fughe. Viene consigliato l'uso di un prodotto acido, tipo FMG CLEAN a concentrazione 1:1. Strofinare energicamente e, dopo la pulizia, risciacquare abbondantemente con acqua pulita, per asportare tutte le tracce del detergente utilizzato. Queste operazioni sono indispensabili per tutte le collezioni FMG.

**Manutenzione e cura** Grazie al procedimento produttivo impiegato (alte temperature di cottura, materie prime di qualità e processo di sinterizzazione) la superficie dei materiali FMG è praticamente impermeabile (assorbimento d'acqua minimo). Pertanto anche la sporcizia non può penetrare ma deve soltanto essere asportata dalla superficie del materiale. In questa operazione si sconsiglia di utilizzare detergenti contenenti cere o prodotti ceranti onde evitare la formazione di strati untuosi; per la scelta del detergente più appropriato, fare riferimento ai capitoli seguenti.

**Consigli generali** Per grandi superfici soggette a carichi di sporco notevoli, quali aeroporti, ospedali, supermercati e luoghi pubblici ad alta intensità di traffico, si rendono indispensabili macchine per la pulizia con aspirazione dei liquidi di lavaggio. Ciò permetterà di ottenere non solo una pulizia profonda ma anche l'asportazione dei liquidi contenenti la sporcizia: in tal modo viene evitata la formazione di patine o pellicole altrimenti molto difficili da asportare. Al fine di preservare le superfici dallo sporco e dalle lavorazioni di cantiere, a posa terminata le pavimentazioni, in particolar modo quelle realizzate con materiali levigati, devono essere adeguatamente protette con truciolare o altri materiali idonei. In tal modo sarà possibile evitare danneggiamenti provocati da lavorazioni successive.

Sui materiali FMG possono essere utilizzati tutti i detergenti esistenti sul mercato alla concentrazione indicata; è escluso l'acido fluoridrico (HF) e tutti i suoi composti, come da norma UNI-EN 176. La concentrazione del detergente deve essere sempre la più bassa possibile, sia per contenere i costi che per velocizzare la manutenzione. Per pavimenti sopraelevati si consigliano prodotti lucidati o levigati in formati grandi in modo da effettuare operazioni di manutenzione a secco, o con un minimo utilizzo di liquidi. Una volta ultimata la posa in opera è necessario effettuare una pulizia iniziale approfondita della pavimentazione con prodotti idonei.

**Detergenti** Indispensabili per preparare perfettamente la base nella posa su vecchio pavimento (FMG Neat), o per rimuovere ogni traccia di lavorazione dai materiali posati (FMG Clean).

**Materiali naturali** Per questi materiali, dopo aver effettuato le operazioni specificate nella sezione "Pulizia iniziale" è sufficiente una normale manutenzione con una soluzione acquosa contenente piccole percentuali di un detergente alcalino, tipo FMG NEAT o Cif.

Per questi tipi di superficie è sconsigliabile eseguire un trattamento impermeabilizzante: non essendoci alcuna porosità, l'impermeabilizzazione si depositerebbe soltanto sulla superficie in modo disomogeneo causando così effetti estetici disarmonici.

## CLEANING AND MAINTENANCE

**Introduction** All FMG materials are easy to clean and maintain. Regular cleaning highlights the aesthetic features of the material and gives the floor an exceptional shine.

**Initial cleaning** The initial cleaning done immediately after the flooring laid is of essential importance for removing all mortar, adhesives and epoxy residues that may be left in the joints. In this initial phase, we recommend that you use an acid product such as FMG CLEAN, in a 1:1 concentration. Rub energetically to obtain the maximum cleaning. After washing the floor, which is just as important, rinse thoroughly with plenty of water to remove all traces of the detergent used. These steps are recommended for all FMG collections.

**Maintenance and care** Thanks to the characteristics of the production process (high firing temperature, raw materials of great quality, sinterizing process), the surface of FMG material is waterproof (the water absorption is minimum). Therefore the dirt cannot penetrate but it is necessary to remove it from the surface. For this procedure do not use detergents containing waxes or waxing products, in order to avoid the forming of greasy layers; for choosing the most appropriate detergent refer to the following chapters. After the installation of floors, particularly of those made with polished materials, the surfaces should be adequately protected with particle board or other suitable materials in order to protect them from dirt and on-site processing. This prevents damage caused by subsequent processing.

**General recommendations** For commercial and heavily used surface areas such as airports, hospitals, supermarkets, and any public spaces with heavy foottraffic which are thus subject to considerable soiling, it is necessary to use automatic cleaning machines with suction of the washing liquids.

This allows not only deep cleaning, but also the continuous removal of liquids containing substances that cause soiling, thus preventing the formation of films which are very difficult to remove. Any detergent on the market can be used in the desired concentration for cleaning the high technology sinterized FMG products, with the exception of HYDROFLUORIC acid (HF) or its compounds, according to UNI-EN 176 standards. In order to keep costs limited and speed up maintenance operations, the concentration of the detergent must always be as low as possible. For raised floos we suggest to choose bright or polished surfaces in large sizes: these materials can be dry cleaned or with the minimum use of liquids. After the floor is laid it is necessary to make a very accurate initial cleaning with proper products.

**Detergents** The detergents are essential when laying new materials on old floors and for preparing the support surface perfectly (FMG Neat) as well as after installation to remove all traces of cement, adhesive or sealant from the newly laid materials (FMG Clean). Use FMG Mineral to protect polished stoneware, to facilitate the removal of dirt.

**Matt materials** For these materials, after completing the steps described in the section "Initial Cleaning", you only need to clean the floor with hot water containing small quantities of an alkaline detergent such as FMG NEAT or Cif.

On these types of surface it is not advisable to apply a waterproofing product: the absence of porosity causes the waterproofing agent to deposit on the surface in an uneven way and to have unpleasant aesthetic effects.

# / Cleaning and maintenance

## EINIGUNG UND PFLEGE

**Einleitung** Alle FMG Materialien sind einfach zu reinigen und pflegeleicht. Eine angemessene Reinigung wertet die ästhetischen Eigenschaften auf und verleiht jedem Boden einen außergewöhnlichen Glanz.

**Erste Reinigung** Von entscheidender Bedeutung ist die Anfangsreinigung, die direkt nach dem Verlegen zu erfolgen hat, um aus dem Mörtel stammende Zementrückstände, Kleberrückstände sowie Epoxydrückstände der Fugen vollständig zu beseitigen. In dieser Phase wird die Verwendung eines säurehaltigen Produktes empfohlen zum Beispiel FMG CLEAN in einer Konzentration von 1:1. Für eine gründliche Reinigung muß kräftig gescheuert werden. Nach der Reinigung

ist das Spülen mit reichlich Wasser ebenfalls von großer Wichtigkeit, um alle Spuren des verwendeten Reinigungsmittels zu entfernen. Diese Arbeitsgänge sind für alle Kollektionen unverzichtbar.

**Wartung und pflege** Dank des angewandten Produktionsverfahrens (hohe Brenn-temperatur, qualitativ hochwertiges Rohmaterial und Sinterung) ist die Oberfläche der FMG Materialien praktisch völlig wasserabweisend (minimale Feuchtigkeitsaufnahme). Daher kann Schmutz auch nicht in die Oberfläche eindringen, sondern muß nur von der Oberfläche entfernt werden. Es ist davon abzuraten, daß wachshaltige Reinigungsmittel oder Produkte zum Einwachsen zu verwenden, um die Bildung von öligen Schichten zu vermeiden.

In den nachfolgenden Abschnitten wird näher auf die Auswahl der geeigneten Reinigungsmittels eingegangen. Um die Oberflächen vor Verschmutzungen und Beschädigungen durch Bauarbeiten zu schützen, müssen die Bodenbeläge, insbesondere die aus geschliffenen Materialien, nach der Verlegung entsprechend mit Spanplatten oder anderen geeigneten Materialien abgedeckt werden. Auf diese Weise können Beschädigungen durch spätere Arbeiten vermieden werden.

**Allgemeine Hinweise** Für grosse, bedeutende Oberflächen wie Flughäfen, Krankenhäuser, Supermärkte und andere öffentliche Bereiche mit hohem Verkehrsaufkommen, die daher auch einer starken Verschmutzung ausgesetzt sind, ist der Einsatz von automatischen Reinigungsmaschinen mit Absaugung der Reinigungsflüssigkeit unverzichtbar, da sie nicht nur eine tiefe Reinigung erlauben, sondern auch ständig die Flüssigkeit mit dem Schmutz entfernen und so die Bildung von eventuellen Schmutz-oder Schmierfilmen vermeiden, die immer schwer zu entfernen sind.

Auf den FMG Materialien, können alle auf dem Markt befindlichen Reinigungsmittel in der gewünschten Konzentration verwendet werden, mit Ausnahme von Fluorsäure (HF) oder ähnlichen Produkten, gemäß UNI-EN 176.

Die Konzentration des Reinigungsmittels muss aus Gründen der Kosten und der Schnelligkeit der Reinigung stets so gering wie möglich sein. Für die Doppelböden werden grossen Formate in glänzender oder geschliffener Ausführung empfohlen, so, dass eine trockene oder leicht feuchte Pflege ausreichend ist. Nach Abschluss der Verlegearbeit ist es notwendig, mit geeigneten Reinigungsmitteln eine gründliche Anfangsreinigung des Fussbodens durchzuführen.

**Reinigungsmittel** Die Reinigungsmittel sind unabkömmlich, sowohl wenn Sie das Material auf einem alten Bodenbelag verlegen wollen um den Untergrund vorzubereiten (FMG Neat), als auch um jede Spur von Zement, Kleber oder Fugenmörtel auf dem verlegten Material zu entfernen (FMG Clean). Verwenden Sie FMG Mineral für die Imprägnierung und die Reinigung des polierten Feinsteinzeugs.

**Matt Materialien** Für diese Materialien ist, nachdem die im Kapitel "Anfangsreinigung" dargelegten Schritte durchgeführt wurden, eine gewöhnliche Wartung mit einer wässrigen Lösung, die einen kleinen Anteil alkalischen Reinigungsmittels (zum Beispiel FMG NEAT oder Viss) enthält, notwendig. Für diese Arten von Oberfläche ist von einer Wasserfestigkeitsbehandlung abzuraten; da die Oberflächen nicht porös sind, würde eine Wasserfestigkeitsbehandlung nur zu ungleichmässigen Ablagerungen auf der Oberfläche und damit zu einem optisch disharmonischen Eindruck führen.

## NETTOYAGE ET ENTRETIEN

**Avant-propos** Tous les matériaux FMG sont faciles à nettoyer et à entretenir. Un nettoyage adéquat met en relief les caractéristiques esthétiques, conférant à chaque sol un éclat particulier.

**Nettoyage initial** Le nettoyage initial est d'une importance fondamentale et doit s'effectuer immédiatement après la pose pour éliminer totalement les résidus de ciment des mortiers, les résidus de colle et les résidus epoxy provenant des joints. Nous conseillons dans cette phase d'utiliser un produit acide, du type FMG CLEAN concentré à 1:1. Frottez énergiquement pour obtenir un nettoyage parfait.

Après le lavage, il est également important de rincer abondamment à l'eau claire pour éliminer toutes les traces du détergent utilisé. Ces opérations sont indispensables pour toutes les collections de FMG.

**Entretien et soin** Grâce aux caractéristiques du procédé de production (hautes températures de cuisson, matières premières de qualité et procédé de grésage) la surface des matériaux FMG est pratiquement imperméable (l'absorption d'eau est minimum). Cela signifie que la saleté ne peut pas pénétrer mais doit seulement être retirée de la surface du matériau. Pour cette opération on déconseille l'usage des détergents contenant de la cire ou des produits de cirage afin d'éviter la formation de couches de graisse ; pour le choix du détergent le plus approprié, lisez les chapitres suivants. Après avoir achevé la pose des sols, notamment ceux réalisés avec des matériaux polis, appliquer des panneaux de particules ou autres matériaux adéquats pour protéger comme il se doit les surfaces contre la saleté et les résidus de chantier. Il sera ainsi possible d'éviter que les opérations suivantes n'abîment le carrelage.

**Conseils généraux** Pour les grandes et importantes surfaces comme les aéroports, les hopitaux, les supermarchés et les lieux publics à circulation très intense et qui par conséquent se salissent beaucoup, il est indispensable d'utiliser des machines automatiques de nettoyage qui aspirent le liquide de lavage. Vous obtiendrez non seulement un nettoyage profond mais vous éliminerez en permanence les liquides contentant les matériaux responsables de saleté et vous éviterez la formation de patine ou de pellicule qui sont toujours très difficiles à éliminer. Vous pouvez utiliser sur les matériaux FMG, produits de haute technologie et grésage, tous les détergents que propose le marché, à la concentration souhaitée, excepté l'acide fluorhydrique (HF) et ses composants, suivant les normes UNIEN 176. La concentration du détergent doit toujours être la plus faible possible pour réduire le coût et activer l'entretien. Pour les faux-planchers nous conseillons, dans les grands formats, les produits lustrés ou polis. En effet, nous recommandons un entretien à sec, ou avec un minimum de liquide. Quand la pose est terminée, il est nécessaire d'effectuer un nettoyage initial très approfondi avec les produits appropriés.

**Les détergents** Les détergents vous seront indispensables aussi bien lorsque vous voudrez poser les carreaux sur un vieux sol, pour préparer une base parfaite (FMG Neat), que pour éliminer des carreaux posés toute trace de ciment, colle ou produit de jointolement (FMG Clean). Utilisez FMG Mineral pour la protection et le nettoyage du grès cérame poli.

**Materiaux non polis** Après avoir effectué les opérations décrites plus haut, un entretien normal suffit à ces matériaux, avec une solution aqueuse contenant un faible pourcentage de détergent alcalin, type FMG NET ou Cif. pour ces types de surface ni est pas conseillable de faire un traitement imperméabilisant : vu qu'ils ne sont pas poreuses l'agent imperméabilisant resterait sur la surface et causerait des effets esthétiques non harmonieux.

<b>IMBALLO</b> Cassa di legno <b>PACKAGING</b> Crate in wood	<b>FORMATO</b> lastre in mm <b>FORMAT</b> slabs in mm	<b>PEZZI</b> capienza max <b>ITEMS</b> max capacity	<b>SCATOLO</b> capienza max <b>BOXES</b> max capacity	<b>MQ</b> capienza max <b>SQ.M.</b> max capacity	<b>KG</b> capienza max <b>KG</b> max capacity	<b>NOTE</b> <b>NOTES</b>
	CASSA CON INTERFALDA 300x150: Ingombro: 322 x 163 x h.34 cm Peso: 114 kg  Crate with padding layers 300x150: Size: 322 x 163 x 34(H) cm Weight: 114 kg	300x150	12	-	54,00	870,00
	CASSA CON INTERFALDA 300x100: Ingombro: 324 x 115 x h.37 cm Peso: 100 kg  Crate with padding layers 300x100: Size: 324 x 115 x 37(H) cm Weight: 100 kg	300x100	16	-	48,00	776,00
	CASSA CON INTERFALDA 150x150: Ingombro: 172 x 163 x h.41 cm Peso: 66,5 kg  Crate with padding layers 150x150: Size: 172 x 163 x 41(H) cm Weight: 66,5 kg	150x150	24	-	54,00	822,50

**NOTE**

- Il peso di casse e cavalletti è suscettibile di variazioni sensibili in base allo stato di umidità al momento della misurazione del peso;
- carico su camion: l'indicazione del numero massimo di casse è riferito ad un pianale unico di 13,6 x 2,45 m, compatibilmente con il peso; per camion di dimensioni differenti occorre riformulare il calcolo sulla base dello spazio e del volume delle casse;
- Carico su camion: per la sovrapponibilità di casse alte e basse non oltrepassare l'altezza max. del numero di casse alte indicate per ciascun formato;
- Imballo in casse alte / basse / pallet: a parità di articolo (codice) ordinato, le casse vengono via via riempite secondo l'imballo di massima capienza (es: ordine 90 mq articolo XYZ in formato 150x75 cm sarà imballato con nr. 1 cassa alta contenente 58,5 mq + nr. 1 cassa alta per 31,5 mq);
- Reso delle casse: Il cliente avrà la facoltà di restituire le casse addebitate in fattura, franco stabilimento Arioste. Personale autorizzato accerterà lo stato delle casse rese e compilera' il modulo di reso esclusivamente per le casse integre e complete dei quattro dischi metallici (bulldog) posti su ciascun angolo.  
Non possono essere resi né cavalletti, né pallet.

**NOTE**

- The weight of the crates and racks is subject to significant variations based on the moisture content at the time the weight was measured;
- Loading on lorry: the specified maximum number of crates refers to a single 13.6 x 2.45 m platform, within weight limits; for lorries of different sizes, calculation must be made based on the space and volume of the crates;
- Loading on lorry: to stack tall and short crates, do not exceed the maximum height for the number of tall crates specified for each format;
- Packaging in pallets/tall/short crates: for the same item (code) ordered, the crates are gradually filled according to the package of maximum capacity (e.g.: an order of 90 sq.m. of item XYZ in format 150 x 75 cm will be packaged in 1 tall crate containing 58.5 sq.m. + 1 tall crate containing 31.5 sq.m.);
- Crate return: the customer will have the option of returning the crates billed on the invoice, ex-factory Arioste. Authorised employees will check the conditions of the returned crates and will fill out the return form, exclusively for undamaged crates that include the four toothed metal discs placed on each corner. Pallets and pallets cannot be returned.

<b>IMBALLO</b> Cassa di legno <b>PACKAGING</b> Crate in wood		<b>FORMATO</b> lastre in mm <b>FORMAT</b> slabs in mm	<b>PEZZI</b> capienza max <b>ITEMS</b> max capacity	<b>SCATOLE</b> capienza max <b>BOXES</b> max capacity	<b>MQ</b> capienza max <b>SQ.M.</b> max capacity	<b>KG</b> capienza max <b>KG</b> max capacity	<b>NOTE</b> <b>NOTES</b>
	<p>CASSA ALTA: Ingombro: 171 x 112 x h.65 cm Peso: 72 kg</p> <p>CASSA BASSA: Ingombro: 170 x 112 x h.40 cm Peso: 51 kg</p> <p>TALL CRATE: Size: 171 x 112 x 65(H) cm Weight: 72 kg</p> <p>SHORT CRATE: Size: 170 x 112 x 40(H) cm Weight: 51 kg</p>	150x100 cassa alta <i>tall crate</i>  150x100 cassa bassa <i>short crate</i>  150x100 pallet	40  18  8	40  18  8	60,00  27,00  12,00	912,00  432,00  168,84	<ul style="list-style-type: none"> <li>- ordine minimo 2 scatole (= 2 lastre);</li> <li>- ordine tassativo multipli di 2 lastre / scatole;</li> <li>- una cassa alta / bassa o un pallet non possono contenere articoli (codici) differenti;</li> </ul> <p><b>carico su camion:</b></p> <ul style="list-style-type: none"> <li>- sovrapponibilità max. su camion n. 3 casse alte;</li> <li>- max. 30 casse alte su camion (15 spazi) compatibilmente con i limiti di peso totale;</li> </ul> <p><b>loading on lorry:</b></p> <ul style="list-style-type: none"> <li>- minimum order: 2 boxes (= 2 slabs);</li> <li>- each crate must always contain an even number of slabs/boxes;</li> <li>- a tall/short crate or pallet may not contain different items (codes);</li> </ul>
	<p>CASSA ALTA: Ingombro: 172 x 89 x h.65 cm Peso: 57 kg</p> <p>CASSA BASSA: Ingombro: 172 x 89 x h.41 cm Peso: 41 kg</p> <p>TALL CRATE: Size: 172 x 89 x 65(H) cm Weight: 57 kg</p> <p>SHORT CRATE: Size: 172 x 89 x 41(H) cm Weight: 41 kg</p>	150x75 cassa alta <i>tall crate</i>  150x75 cassa bassa <i>short crate</i>  150x75 pallet	52  24  12	26  12  6	58,50  27,00  13,50	876,00  419,00  209,00	<ul style="list-style-type: none"> <li>- ordine minimo 1 scatola (= 2 lastre);</li> <li>- una cassa alta / bassa o un pallet non possono contenere articoli (codici) differenti;</li> </ul> <p><b>carico su camion:</b></p> <ul style="list-style-type: none"> <li>- sovrapponibilità max. su camion n. 3 casse alte;</li> <li>- max. 30 casse alte su camion (15 spazi) compatibilmente con i limiti di peso totale;</li> </ul> <p><b>loading on lorry:</b></p> <ul style="list-style-type: none"> <li>- minimum order: 1 box (= 2 slabs);</li> <li>- a tall/short crate or pallet may not contain different items (codes);</li> </ul>
	<p>CASSA ALTA: Ingombro: 172 x 89 x h.65 cm Peso: 57 kg</p> <p>CASSA BASSA: Ingombro: 172 x 89 x h.41 cm Peso: 41 kg</p> <p>TALL CRATE: Size: 172 x 89 x 65(H) cm Weight: 57 kg</p> <p>SHORT CRATE: Size: 172 x 89 x 41(H) cm Weight: 41 kg</p>	75x75 cassa alta <i>tall crate</i>  75x75 cassa bassa <i>short crate</i>  75x75 pallet	114  54  27	38  18  9	64,13  30,38  15,19	954,82  466,32  232,63	<ul style="list-style-type: none"> <li>- ordine minimo 1 scatola (= 3 lastre);</li> <li>- una cassa alta / bassa o un pallet non possono contenere articoli (codici) differenti;</li> </ul> <p><b>carico su camion:</b></p> <ul style="list-style-type: none"> <li>- sovrapponibilità max. su camion n. 3 casse alte;</li> <li>- max. 30 casse alte su camion (15 spazi) compatibilmente con i limiti di peso totale;</li> </ul> <p><b>loading on lorry:</b></p> <ul style="list-style-type: none"> <li>- minimum order: 1 box (= 3 slabs);</li> <li>- a tall/short crate or pallet may not contain different items (codes);</li> </ul>
	<p>CASSA ALTA: Ingombro: 172 x 89 x h.65 cm Peso: 57 kg</p> <p>CASSA BASSA: Ingombro: 172 x 89 x h.41 cm Peso: 41 kg</p> <p><i>Tall crate:</i> Size: 172 x 89 x 65(H) cm Weight: 57 kg</p> <p><i>Short crate:</i> Size: 172 x 89 x 41(H) cm Weight: 41 kg</p>	75x37,5 cassa alta <i>tall crate</i>  75x37,5 cassa bassa <i>short crate</i>  75x37,5 pallet	264  120  60	44  20  10	74,25  33,75  16,88	1096,5  513,50  256,25	<ul style="list-style-type: none"> <li>- ordine minimo 1 scatola (= 6 lastre);</li> <li>- una cassa alta / bassa o un pallet non possono contenere articoli (codici) differenti;</li> </ul> <p><b>carico su camion:</b></p> <ul style="list-style-type: none"> <li>- sovrapponibilità max. su camion n. 3 casse alte;</li> <li>- max. 30 casse alte su camion (15 spazi) compatibilmente con i limiti di peso totale;</li> </ul> <p><b>loading on lorry:</b></p> <ul style="list-style-type: none"> <li>- minimum order: 1 box (= 6 slabs);</li> <li>- a tall/short crate or pallet may not contain different items (codes);</li> </ul>
	<p>CASSA ALTA: Ingombro: 121 x 112 x h.65 cm Peso: 55 kg</p> <p>CASSA BASSA: Ingombro: 121 x 112 x h.41 cm Peso: 46,5 kg</p> <p><i>Tall crate:</i> Size: 121 x 112 x 65(H) cm Weight: 55 kg</p> <p><i>Short crate:</i> Size: 121 x 112 x 41(H) cm Weight: 46,5 kg</p>	100x100 cassa alta <i>tall crate</i>  100x100 cassa bassa <i>short crate</i>  100x100 pallet	52  24  12	26  12  6	52,00  24,00  12,00	783,50  382,50  188,00	<ul style="list-style-type: none"> <li>- ordine minimo 1 scatola (= 2 lastre);</li> <li>- una cassa alta / bassa o un pallet non possono contenere articoli (codici) differenti;</li> </ul> <p><b>carico su camion:</b></p> <ul style="list-style-type: none"> <li>- sovrapponibilità max. su camion n. 3 casse alte;</li> <li>- max. 44 casse alte su camion (22 spazi) compatibilmente con i limiti di peso totale;</li> </ul> <p><b>loading on lorry:</b></p> <ul style="list-style-type: none"> <li>- minimum order: 1 box (= 2 slabs);</li> <li>- a tall/short crate or pallet may not contain different items (codes);</li> </ul>

IMBALLO Cassa di legno PACKAGING Crate in wood	FORMATO lastre in mm FORMAT slabs in mm	PEZZI capienza max ITEMS max capacity	SCATOLO capienza max BOXES max capacity	MQ capienza max SQ.M. max capacity	KG capienza max KG max capacity	NOTE NOTES	
	<p>CAVALLETTO DA 50 LASTRE: Ingombro: 310 x 74 x h.188 cm Peso: 215 kg</p> <p>Rack for 50 slabs: Size: 310 x 74 x 188(H) cm Weight: 215 kg</p>	<p>300x150 cavalletto 50 lastre rack 50 slabs</p> <p>300x100 cavalletto 50 lastre rack 50 slabs</p>	<p>50</p> <p>50</p>	<p>-</p> <p>-</p>	<p>225,00</p> <p>150,00</p>	<p>3366,50</p> <p>2316,50</p>	<ul style="list-style-type: none"> <li>- un cavalletto può contenere max. 5 articoli (codici) differenti;</li> <li>- il cavalletto deve essere riempito per la massima capacità indicata;</li> <li>- per ragioni di ottimizzazione spazi, in questo cavalletto possono essere inserite anche 48 lastre (al posto di nr. 2 cavalletti da 24 lastre)</li> </ul> <p><i>- one rack may contain up 5 different items (codes);</i></p> <p><i>- the rack must be filled to the maximum capacity specified;</i></p> <p><i>- in order to optimise space, this rack may be filled with 48 slabs (instead of 2 racks with 24 slabs each)</i></p>
	<p>CAVALLETTO DA 24 LASTRE: Ingombro: 319 x 71 x h.185 cm Peso: 148 kg</p> <p>Rack for 24 slabs: Size: 319 x 71 x 185(H) cm Weight: 148 kg</p>	<p>300x150 cavalletto 24 lastre rack 24 slabs</p> <p>300x100 cavalletto 24 lastre rack 24 slabs</p>	<p>24</p> <p>24</p>	<p>-</p> <p>-</p>	<p>108,00</p> <p>72,00</p>	<p>1660,00</p> <p>1106,00</p>	<ul style="list-style-type: none"> <li>- un cavalletto può contenere max. 5 articoli (codici) differenti;</li> <li>- il cavalletto deve essere riempito per la massima capacità indicata;</li> </ul> <p><i>- one rack may contain up 5 different items (codes);</i></p> <p><i>- the rack must be filled to the maximum capacity specified;</i></p>
	<p>CAVALLETTO DA 48 LASTRE: Ingombro: 160 x 71 x h.185 cm Peso: 85 kg</p> <p>Rack for 48 slabs: Size: 160 x 71 x 185(H) cm Weight: 85 kg</p>	<p>150x150 cavalletto 48 lastre rack 48 slabs</p>	<p>48</p>	<p>-</p>	<p>108,00</p>	<p>1602,00</p>	<ul style="list-style-type: none"> <li>- un cavalletto può contenere max. 5 articoli (codici) differenti;</li> <li>- il cavalletto deve essere riempito per la massima capacità indicata;</li> </ul> <p><i>- one rack may contain up 5 different items (codes);</i></p> <p><i>- the rack must be filled to the maximum capacity specified;</i></p>

# / Weights and packing



- nr. 18 casse 300x150;
- nr. 30 casse 300x100 + nr. 5 casse 150x150;
- nr. 30 casse 300x100 + nr. 6 casse alte 75x37,5\75x75\150x75;
- nr. 30 casse 300x100 + nr. 6 casse alte 100x100;
- nr. 30 casse 300x100 + nr.10 casse alte 150x100;
- nr. 35 casse 150x150 (compatibilmente con il peso);

\*Per quanto riguarda i formati 100x100 o 75x37,5\75x75\150x75 il calcolo deve tenere conto del peso (non si occupa mai tutto lo spazio a disposizione poiché si eccederebbero i limiti di peso).

## 40 FOOT CONTAINER (11.90 x 2.33 x 2.35(H) m)\*

- 18 crates 300x150;
- 30 crates 300x100 + 5 crates 150x150;
- 30 crates 300x100 + 6 tall crates 75x37.5\75x75\150x75;
- 30 crates 300x100 + 6 tall crates 100x100;
- 30 crates 300x100 + 10 tall crates 150x100;
- 35 tall crates 150x150 (within weight limits);

\*concerning the 100x100 or 75x37.5\75x75\150x75 formats, calculation must take weight into account (the space is never completely filled as weight would be exceeded).

## CONTAINER 20 PIEDI (5,90 x 2,32 x h. 2,35 m)

- nr. 6 casse 300x150;
- nr. 10 casse 300x100 + nr. 5 casse 150x150;
- nr. 10 casse 300x100 + nr. 10 casse alte150x100;
- nr. 10 casse 300x100 + nr. 6 casse alte 75x37,5\75x75\150x75;
- nr. 10 casse 300x100 + nr.12 casse alte100x100;
- nr. 15 casse 150x150 + nr. 3 casse alte 75x37,5\75x75\150x75;
- nr. 27 casse alte 100x100 (compatibilmente con il peso);
- nr. 18 casse alte 75x37,5\75x75\150x75;
- nr. 18 casse alte150x100.

## 20 FOOT CONTAINER (5,90 x 2,32 x 2,35(H) m)

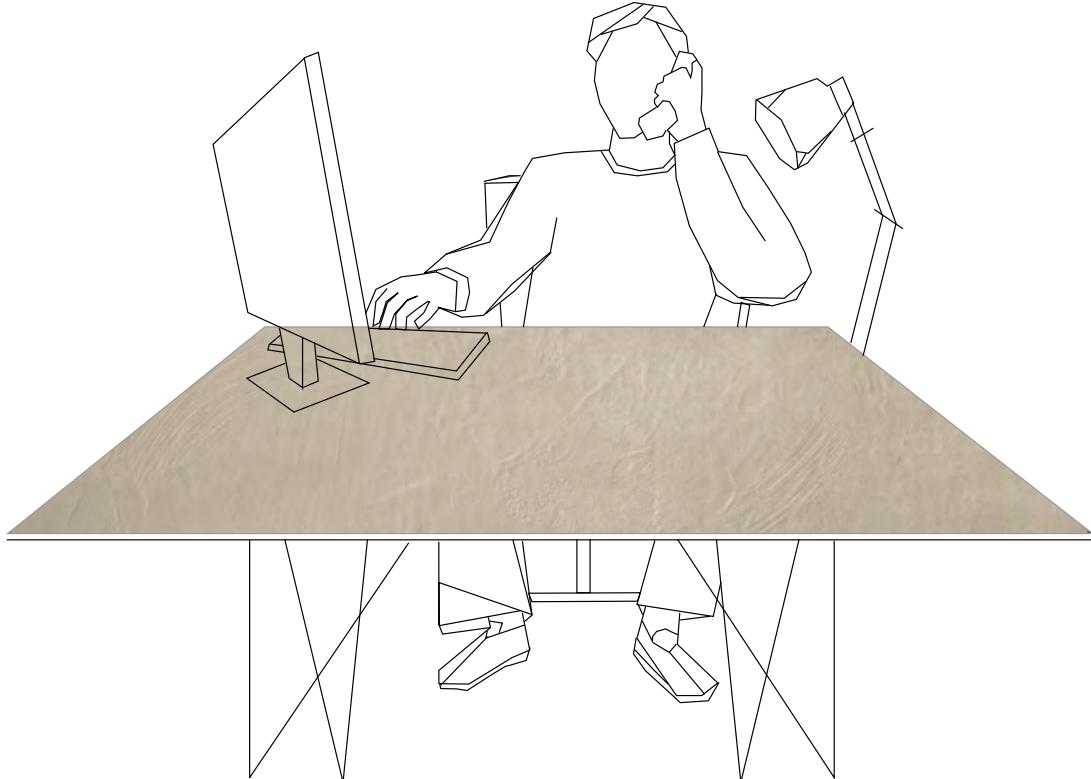
- 6 crates 300x150;
- 10 crates 300x100 + 5 crates 150x150;
- 10 crates 300x100 + 10 tall crates 150x100;
- 10 crates 300x100 + 6 tall crates 75x37.5\75x75\150x75;
- 10 crates 300x100 + 12 tall crates 100x100;
- 15 crates 150x150 + 3 tall crates 75x37.5\75x75\150x75;
- 27 tall crates 100x100 (within weight limits);
- 18 tall crates 75x37.5\75x75\150x75;
- 18 tall crates 150x100.

### NOTE

Per la **sovrapponibilità di casse alte e basse** della medesima dimensione occorre rispettare il limite di altezza massima della pila pari a 2,10 m, tenendo presente che il carrello elevatore per il carico dei container non può sollevarsi oltre 1,40 m all'interno del container stesso.

### NOTE

Concerning the **stackability of tall and short crates** of the same size, the maximum stack height of 2.10 m, should be respected, bearing in mind that the lift truck for loading the container cannot lift above 1.40 m inside the container itself.



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## IDONEITÀ ADESIVI PER LA POSA DI LASTRE HILITE A BASSO SPESSORE

			INTERNO - INDOORS												ESTERNO - OUTDOORS		
PRODOTTO Product	LATTICE Latex	CLASSIFICAZIONE Classification	MASSETTO IN CEMENTO E IN CALCESTRUZO Cement and concrete screeds	MASSETTI IN ANIDRITE Anhydrite screeds	MASSETTI RISCALDANTI Heated screeds	VECCHIE CERAMICHE, MARMETTE O MATERIALE LAPIDEO Old ceramics, marble-chip floor tiles or stone material	PAVIMENTI IN PVC, LINOLEUM O VINICI PVC, Linoleum or vinyl flooring	INTONACO CEMENTIZIO, CALCESTRUZZO Cement plaster, concrete	INTONACO IN GESSO Gypsum plaster	CARTONGESSO PANNELLI IN FIBROCEMENTO Plasterboard Fiber cement panels	VECCHIE CERAMICHE Old ceramic	MASSETTO CEMENTIZIO CALCESTRUZZO Cement screed Concrete	VECCHIE CERAMICHE, MARMETTE O MATERIALE LAPIDEO Old ceramics, marble-chip floor tiles or stone material	INTONACO CEMENTIZIO, CALCESTRUZZO Cement plaster concrete	PAVIMENTO - Floors	MURI - Walls	PAVIMENTO - Floors
		EN 12004	EN 12002	CM <sup>2</sup>				CM <sup>2</sup>				CM <sup>2</sup>		CM <sup>2</sup>	CM <sup>2</sup>	CM <sup>2</sup>	
TECHNOS +	TC - LAX	C2	-	S1	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	-	IDONEO <i>Suitable</i>	
TECHNOS +	TC LASTIC	C2	-	S2	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	-	IDONEO <i>Suitable</i>	
TECHNO - XL	TC - LAX	C2	TE	S1	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	-	IDONEO <i>Suitable</i>	
TECHNO - XL	TC LASTIC	C2	T	S2	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	-	IDONEO <i>Suitable</i>	
TECHNOLA	TC - LAX	C2	TE	S1	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	-	IDONEO <i>Suitable</i>	
TECHNOLA	TC LASTIC	C2	TE	S2	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	-	IDONEO <i>Suitable</i>	
TECHNODEUE	-	C2	TE	S1	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	-	IDONEO <i>Suitable</i>	
TECHNORAP 2	-	C2	FT	S1	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	-	IDONEO <i>Suitable</i>	
ALL 9000	-	C2	T	-	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable*</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	IDONEO <i>Suitable</i>	
TECHNOSTAR/HD	-	C2	TE	S1	≤ 10000	≤ 10000*	≤ 5000	≤ 5000	-	≤ 10000	≤ 10000*	≤ 5000	-	≤ 5000	-	≤ 5000	-
AIR-ONE	-	C2	TE	S1	≤ 10000	≤ 10000*	≤ 5000	≤ 5000	-	≤ 10000	≤ 10000*	≤ 5000	-	≤ 5000	-	≤ 5000	-
Aires	-	C2	TE	S2	≤ 10000	≤ 10000*	≤ 5000	≤ 5000	-	≤ 10000	≤ 10000*	≤ 5000	-	≤ 5000	-	≤ 5000	-
TECHNOMAX S1	-	C2	E (G)	S1	≤ 10000	≤ 10000*	≤ 5000	≤ 5000	-	-	-	-	-	-	≤ 5000	-	-

\*Dopo utilizzo di "PRIMER T"

# / Technical features

## LASTRE IN CERAMICA TECNICA CON LE CARATTERISTICHE DEL PORCELLANATO FULL-TECHNICAL CERAMIC SLABS WITH THE CHARACTERISTICS OF PORCELAIN

Classificazione secondo le norme UNI EN 14411 gruppo Bla o ISO 13006 Allegato G gruppo BI a UGL

Classification in accordance with UNI EN 14411 standards Bla group or ISO 13006 Annex G standards BI a UGL group

- \* I prodotti con assorbimento < 0,5 sono classificati secondo le norme UNI CEN "Fully vitrified tiles" e secondo le norme ASTM "Impervious tiles"  
The products having an absorption < 0,5 are classified according to the UNI CEN standards "Fully vitrified tiles" and according to the ASTM standards "Impervious tiles"

\*\* Varia secondo la finitura di superficie  
It can vary according to the surface finish

PROPRIETÀ FISICO-CHEMICHE PHYSICAL-CHEMICAL PROPERTIES	TIPO DI PROVA STANDARD OF TEST	VALORE PRESCRITTO REQUIRED VALUE	VALORE HUITE HUIITE VALUE	ASTM STANDARD OF TEST	ASTM INDUSTRY STANDARDS	ASTM FMG RESULTS (as tested by Smith Emery laboratory)	
 Dimensioni Sizes	ISO 10545.2	<b>Lunghezza e larghezza</b> Length and width <b>Spesore</b> Thickness <b>Rettilineità spigoli</b> Linearity <b>Ortogonalità</b> Wedgeing <b>Planarità</b> Warpage	± 0,6% max ± 5% max ± 0,5% max ± 0,6% max ± 0,5% max	± 0,5 mm ± 3% ± 0,5 mm ± 1 mm ± 0,2%	ASTM C-499	Average facial dimension < 1,5% Wedging ±1% - Warpage ±1% of any edge Range of thickness (inch.) < 0,04%	0,15% 0,014% - 0,33% 0,17%
 Assorbimento d'acqua Water absorption	ISO 10545.3	≤ 0,5%	≥ 0,06% *	ASTM C-373	Tile shall be impervious	< 0,05%	
 Resistenza alla flessione Flexion resistance	ISO 10545.4	<b>Modulo di rottura</b> Breaking modulus	≥ 35 N/mm <sup>2</sup>	53 N/mm <sup>2</sup>			
 Resistenza all'abrasione profonda Deep abrasion resistance	ISO 10545.6	Volume ≤ 175 mm <sup>3</sup>		≤ 142 mm <sup>3</sup>	ASTM C-501 ≥ 100	217	
 Coefficiente di dilatazione termica lineare Coefficient of linear thermal-expansion	ISO 10545.8	≤ 9x10 <sup>-6</sup> °C <sup>-1</sup>		6 MK <sup>-1</sup>	ASTM C-1028	Meets or exceeds requirements (Please ask for individual test reports)	
 Resistenza al gelo Frost resistance	ISO 10545.12	<b>Non devono presentare rotture o alterazioni apprezzabili della superficie</b> Must not produce noticeable alteration to surface		<b>Non gelive</b> Frost-proof	ASTM C-1026	No sample must show alterations to surface	Resistant
 Resistenza ai prodotti chimici Chemical resistance	ISO 10545.13	<b>Non devono presentare apprezzabili segni d'attacco Chimico</b> Must not produce noticeable signs of chemical attack		<b>Non attaccate</b> Not attacked	ASTM C-650 ASTM C-648	To 10% HCl Acid - No sample must show visible signs of chemical attack to 10% KOH Alkali 250 PSI or greater	Unaffected
 Resistenza alle macchie Stain resistance	ISO 10545.14	1 < X < 5		<b>CLASSE 5 - CLASS 5 **</b> Macchie rimosse con acqua corrente calda (senza detergente) Stains removed by hot running water (without detergent)			
 Resistenza dei colori alla luce Color resistance to light	DIN 51094	<b>Non devono presentare apprezzabili variazioni di colore</b> Must not produce noticeable colour variation		<b>Campioni inalterati</b> in brillantezza e colore No change in brightness or colour of samples			
 Coefficiente di attrito (scivolosità) Friction coefficient (slipperiness)	DIN 51130	<b>Metodo disponibile</b> Test method available					
 Coefficiente di attrito (scivolosità) Friction coefficient (slipperiness)	BCRA REP CEC 6/81	<b>Attrito soddisfacente</b> Satisfactory friction 0,40 ≤ μ ≤ 0,74		<b>&gt;0,40</b> <b>Superficie naturale</b> Matt surface			
 Resistenza al fuoco Fire resistance		96/603/CE		A1			

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PROPRIETÀ FISICO-CHIMICHE PHYSICAL-CHEMICAL PROPERTIES		TIPO DI PROVA STANDARD OF TEST	VALORE PRESCRITTO REQUIRED VALUE	
 Dimensioni Sizes	ISO 10545.2	Lunghezza e larghezza Length and width <b>Spessore</b> Thickness <b>Rettolinearietà spigoli</b> Linearity <b>Ortogonalità</b> Orthogonality <b>Wedging</b> <b>Planarità</b> Warpage	± 0,6% max ± 5% max ± 0,5% max ± 0,6% max ± 0,5% max	± 0,5 mm ± 3% ± 0,5 mm ± 1 mm ± 0,2%
 Assorbimento d'acqua Water absorption	ISO 10545.3	≤ 0,5%		≥ 0,06% *
 Resistenza alla flessione Flexion resistance	ISO 10545.4	Modulo di rottura Breaking modulus	≥ 35 N/mm²	RF 60x60 = 50 N/m² F 60x60 = 1400 N/m² RF 120x60 = 48 N/m² F 120x60 = 1200 N/m²
 Resistenza all'abrasione della superficie Resistance to superficial abrasion	ISO 10545.7	Come indicato As indicated		PEI Classe 2 PEI Class 2 <b>NB: Se ne consiglia l'uso a rivestimento interno</b> Note well: we recommend the use for internal covering
 Resistenza all'abrasione profonda Deep abrasion resistance	ISO 10545.6	Volume ≤ 175 mm³		155 mm³
 Coefficiente di dilatazione termica lineare Coefficient of linear thermal-expansion	ISO 10545.8	Metodo disponibile Test method available		6 MK⁻¹
 Resistenza ai prodotti chimici Chemical resistance	ISO 10545.13	Non devono presentare apprezzabili segni d'attacco Chimico Must not produce noticeable signs of chemical attack	Non attaccate Not attacked	
 Resistenza alle macchie Stain resistance	ISO 10545.14	1 < X < 5		CLASSE 5 - CLASS 5 ** Macchie rimosse con acqua corrente calda (senza detergente) Stains removed by hot running water (without detergent)
 Coefficiente di attrito (scivolosità) Friction coefficient (slipperiness)	BCRA REP CEC 6/81	Piastrelle non smaltate: Metodo di prova disponibile Unglazed tiles: Testing method available		

## CARATTERISTICHE TECNICHE ARREDAMENTO-FURNITURE TECHNICAL FEATURES

CARATTERISTICA TECNICA TECHNICAL FEATURE	NORMA O METODO DI MISURA STANDARD OR MEASUREMENT METHOD	VALORE PRESCRITTO DALLE NORME VALUE LAID DOWN BY STANDARDS	VALORE HI LUTE HI LUTE VALUE
 Resistenza superfici al calore umido Surface resistance to wet heat	UNI EN 12721:2013	5 – Nessun cambiamento 5 – No change	5 – Nessun cambiamento riscontrato 5 – No change found
 Resistenza superfici al calore secco Surface resistance to dry heat	UNI EN 12722:2013	5 – Nessun cambiamento 5 – No change	5 – Nessun cambiamento riscontrato 5 – No change found
 Resistenza superfici ai liquidi freddi Surface resistance to cold liquids	UNI EN 12720:2013	5 – Nessun cambiamento 5 – No change	5 – Nessun cambiamento riscontrato 5 – No change found
 Determinazione della tendenza delle superfici a ritenere lo sporco Determination of the tendency of the surface to retain dirt	UNI 9300:1988 + A276:1989	5 – Nessun cambiamento 5 – No change	5 – Nessun cambiamento visibile 5 – No visible change
 Resistenza delle superfici agli sbalzi di temperatura Surface resistance to thermal shock	UNI 9429:1989	5 – Nessun difetto dopo 15 CICLI Length and width	5 – Nessun difetto 5 – No defect
 Determinazione della migrazione globale Determination of overall migration	DM 21/03/1973	Conforme al DM 21/03/1973 Must not produce noticeable alteration to surface	Conforme Compliant
 Resistenza delle superfici ai prodotti di pulizia Surface resistance to cleaning products	PROC. INT. 006/2014	Nessun cambiamento Must not produce noticeable signs of chemical attack	Nessun cambiamento riscontrato No change found

Not just for surfaces

/ edition  
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