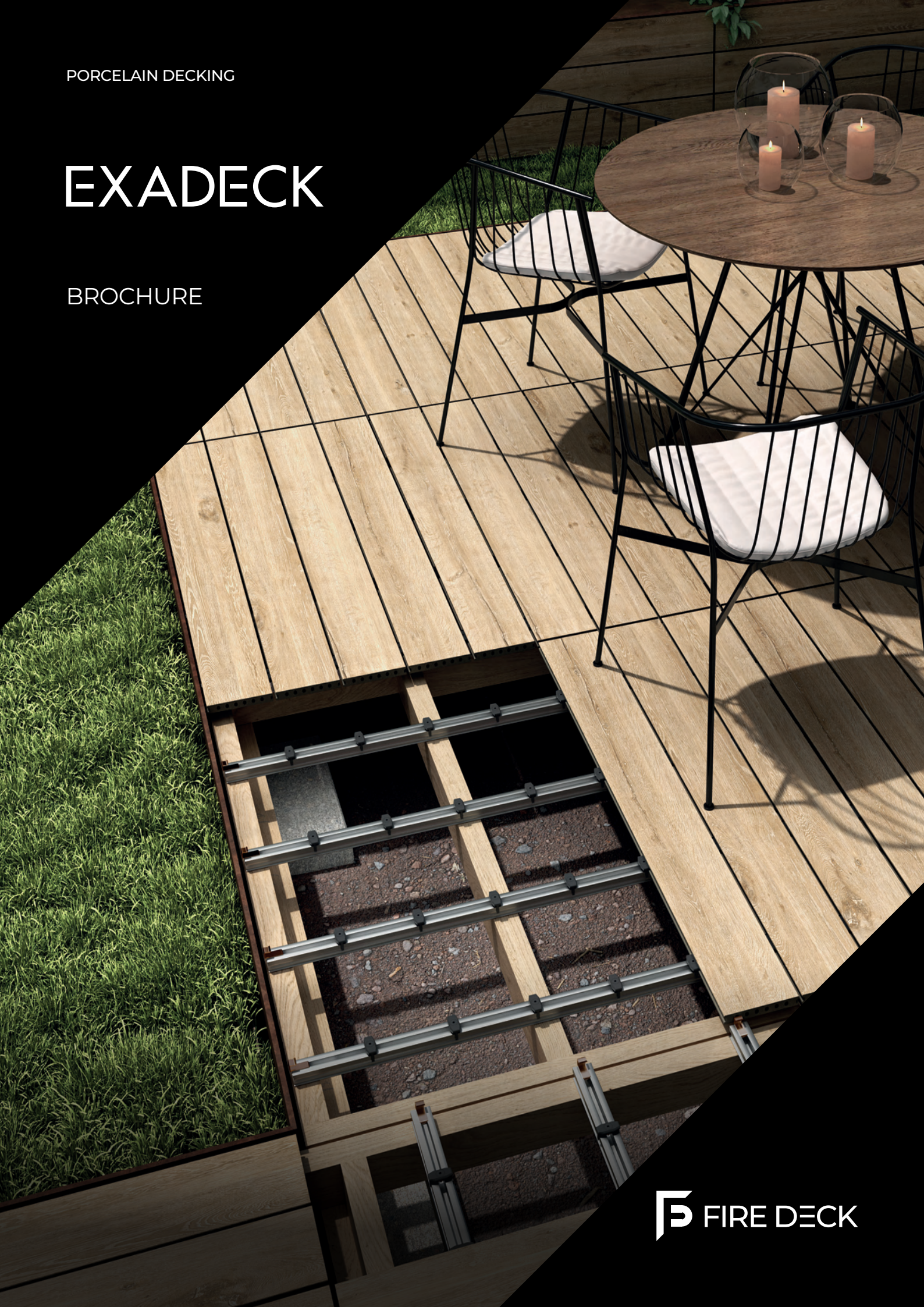


PORCELAIN DECKING

# EXADECK

BROCHURE



# BENEFITS

FIRE DECK is proud to introduce EXADECK, the flagship product for all commercial and residential balconies, roof terraces. Unique in the market, this innovative porcelain decking specifically designed for Highrise buildings looking for an A1 non-combustible product that not only is more durable than aluminium and cement fibre board decking but also gives you the most luxurious look.

EXADECK has revolutionised the construction sector and become the best alternative to conventional decking thanks to its extreme resistance to wind, fire and stains, as well as the durability of the material itself and its strong non-slip properties and has an exquisite design inspired by natural timber.

## BENEFITS OF EXADECK PORCELAIN DECKING

- **HARDWEARING** – EXADECK porcelain decking has a hardness close to diamond and is almost impossible to scratch.
- **STAIN RESISTANT** – during the manufacturing process EXADECK porcelain decking is vitrified so that it does not absorb any water.
- **FROST PROOF** – Thanks to the vitrification process, EXADECK porcelain decking is totally frost proof.
- **100% COLOURFAST** – unlike wood, composite, cement fibre board and aluminium decking, EXADECK porcelain decking will be the same colour in 1000 years' time without having to re-apply paint or sealers like other non-combustible products on the market. EXADECK is perfect for coastal/marine environments where salts might affect the surface /colour due to salts.
- **RESISTANT TO HEAT** – EXADECK porcelain decking does not shrink or swell when exposed to heat or changes in humidity, unlike wood and composite when installed.
- **LONG-LASTING & ENVIRONMENTALLY FRIENDLY** – EXADECK porcelain decking when installed will look as good in fifty years as when it was first laid whereas other boards will fade and need replacing.
- **SAFE** – EXADECK porcelain decking does not contain any nasty chemicals and are inert to most chemical reactions. This is not the case with wood decking, composite decking, cement fibre decking and aluminium decking.
- **SUITABLE FOR USE OUTSIDE** – EXADECK porcelain decking has been designed to be used inside and outside, allowing you to create a seamless link between your living spaces where you must compromise with other non-combustible products because they cannot be used inside.





**FIRE-RESISTANT: CLASS A1**  
 Porcelain tile materials are fully fire resistant. Porcelain tiles are one of the few materials that do not burn, melt or release substances that are harmful for people or the environment, even in direct contact with flames.



**WIND RESISTANT**  
 In outdoor environments, EXADECK is a wind-resistant decking system. It can withstand both positive pressure (uplift) and negative pressure (suction).



**A SCREW-FREE INSTALLATION SYSTEM**  
 EXADECK is perfect for use on flat roofs and balconies, because the battens can be anchored with composite materials rather than screwing them down. This avoids possible water leaks.



**THE ONLY Porcelain DECKING ON THE MARKET**  
 EXADECK is an porcelain decking system. In comparison with wood or synthetic materials, it affords all kinds of advantages in terms of its installation and useful life. Additionally, only minimal care is required.



**ANTI-BACTERIAL**  
 Hygiene and safety are two key priorities in today's society. Because EXADECK is made of porcelain materials, it offers a series of advantages over other rival products. These include an easy-to-clean surface, anti-bacterial properties and almost zero water absorption.



**STAIN RESISTANT & MAINTENANCE FREE**  
 Thanks to its high resistance to stains, EXADECK is an easy-to-clean outdoor solution. It is also perfect for renovating patios and terraces, without having to worry about its maintenance, since it does not require treatments, and is resistant to sun and rain.



**HIGH MECHANICAL & ABRASION RESISTANCE**  
 A product with a very high breaking strength and outstanding resistance to surface abrasion.



**DURABILITY & RESISTANCE TO ULTRA-VIOLET RAYS**  
 EXADECK is made of top-quality porcelain tile material, guaranteeing a high breaking strength and resistance to ultra-violet rays. These properties make EXADECK unalterable over time.



**COMMITTED TO THE ENVIRONMENT**  
 In the faithful commitment of EXADECK with the environment, the EXADECK system is designed to be disassembled, which facilitates the separation of its components to be recycled. The pieces are composed of virgin raw materials and recycled porcelains, favoring waste prevention. In addition, EXADECK offers itself as a collection point for EXADECK boards to give them a new life.



**CLASS 3-R11 /C ANTI-SLIP PROPERTIES**  
 Porcelain tile material with a high anti-slip grip. Rated CLASS 3 - R11/C.



**RESISTANCE TO FROST, ICE & TEMPERATURE CHANGES**  
 It can also withstand sharp temperature changes: it does not become deformed and neither do the boards expand.



**SUITABLE FOR RESIDENTIAL OR COMMERCIAL AREAS (HIGH TRAFFIC)**  
 EXADECK decking is suitable for use in areas subject to high pedestrian traffic, thanks to its high abrasion resistance and outstanding technical properties.



**REMOVABLE SYSTEM**  
 EXADECK parts are installed using a customized clip system. This results in a fast and agile installation, thus greatly reducing the execution time of the work.



**ACCESSORIES**  
 The wide range of EXADECK products offers the possibility of combining EXADECK boards with other elements that solve different technical aspects: steps and copings for skimmer system pools.

# COLOURS AND VARIATIONS

## THE BOARDS



STANDARD



SQUARE EDGE

### NATURAL



STANDARD



SQUARE EDGE

### MAPLE



STANDARD



SQUARE EDGE

### OAK



STANDARD



SQUARE EDGE

### TECA

# EXADECK



STANDARD



SQUARE EDGE

## GREY



STANDARD



SQUARE EDGE

## ANTICO

- LENGTH:** 1217mm
- WIDTH:** 141mm (147mm module)
- THICKNESS:** 26mm
- WEIGHT PER BOARD:** 8.32Kg
- WEIGHT PER SQM:** 45.76Kg
- FIRE CLASSIFICATION:** A1fl-s1

Natural, Maple, Oak, Antico, Teca, and Grey are stocked in our UK warehouse.



# THE FULL RANGE

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Explore our bespoke range of finishes. Lead times are extended for custom production.

Over 60 bespoke designs to choose from. The bespoke service is unlimited. We can print any very high-res images onto your boards, for a totally customised solution.

Please ask for more information about our bespoke service.

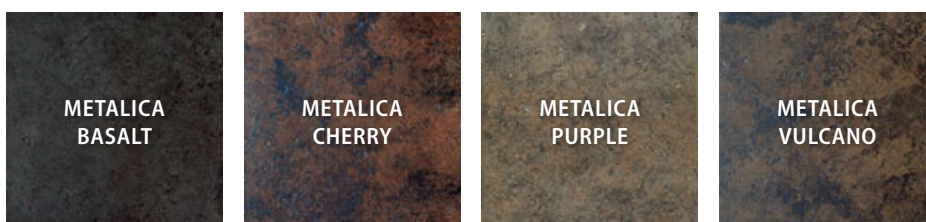
## BESPOKE COLLECTION - MARBLES



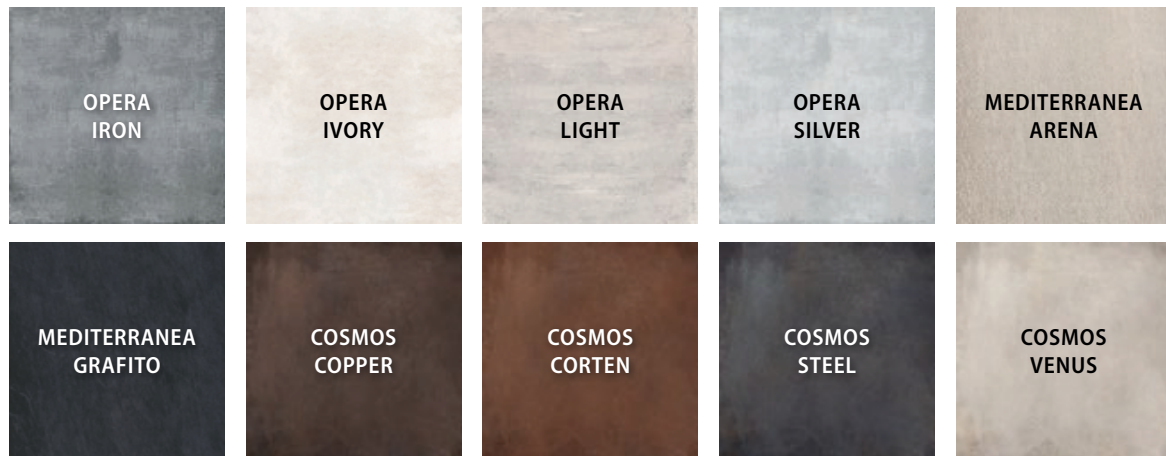
## BESPOKE COLLECTION - EARTH



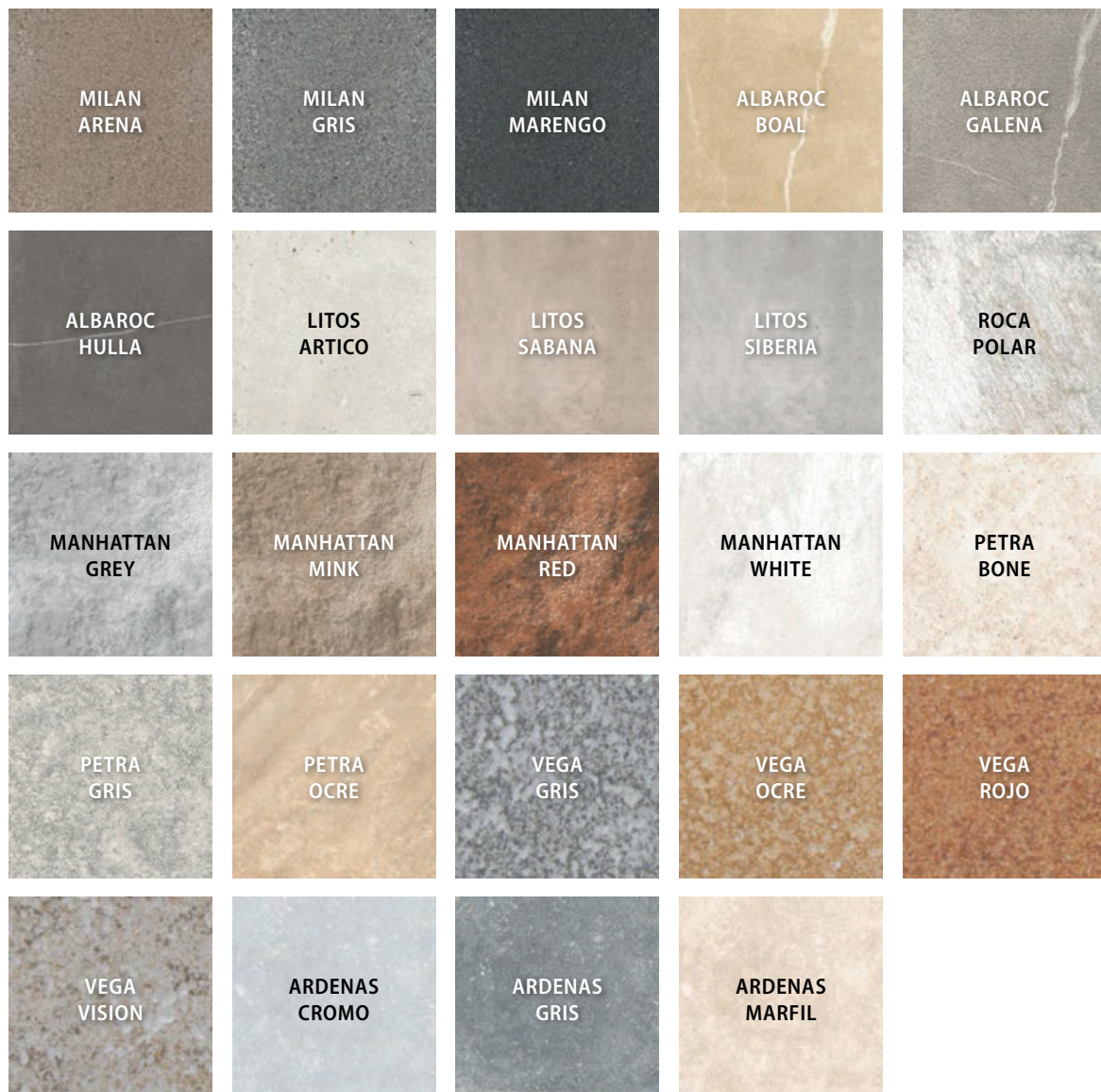
## BESPOKE COLLECTION - METAL



## BESPOKE COLLECTION - URBAN



## BESPOKE COLLECTION - STONE



# PROJECTS

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PROJECT: THE DUMONT - ALBERT EMBANKMENT    LOCATION: LONDON, UK    MATERIAL: EXADECK NATURAL





# EXADECK



PROJECT: THE DUMONT - ALBERT EMBANKMENT    LOCATION: LONDON, UK    MATERIAL: EXADECK NATURAL



# PROJECTS

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NINE ELMS MARKETING SUITE · LONDON · EXADECK TECA



NINE ELMS MARKETING SUITE · LONDON · EXADECK TECA



# EXADECK

PENTHOUSE BROMPTON RD · LONDON · EXADECK TECA



PENTHOUSE · CARDIFF BAY · EXADECK MAPLE



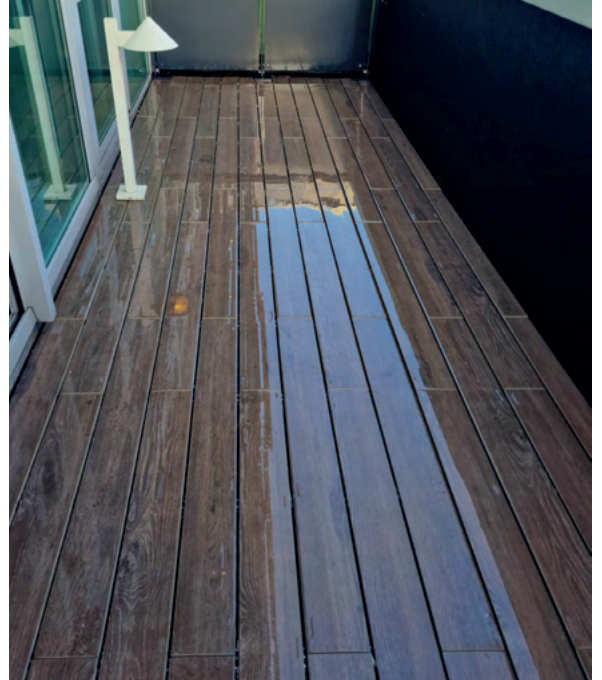
# PROJECTS

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FINCHLEY (BEFORE) · LONDON · EXADECK ANTICO



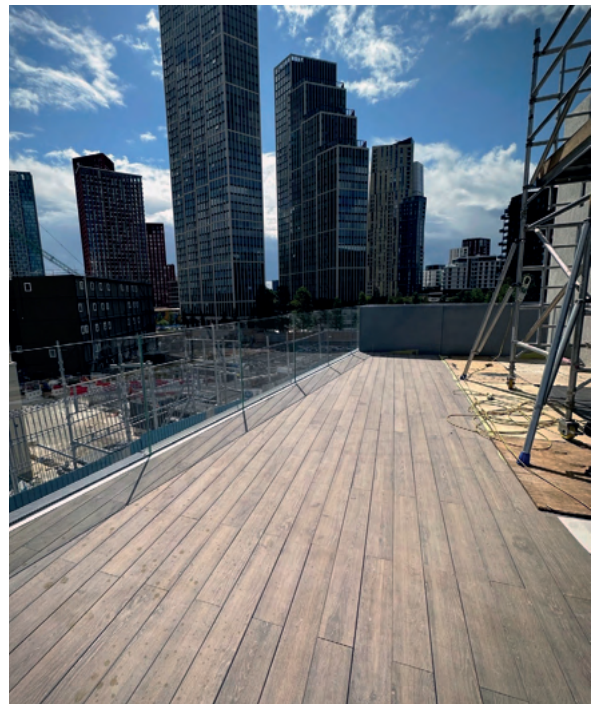
FINCHLEY ((AFTER) · LONDON · EXADECK ANTICO



THE DUMONT - ALBERT EMBANKMENT · LONDON · EXADECK NATURAL

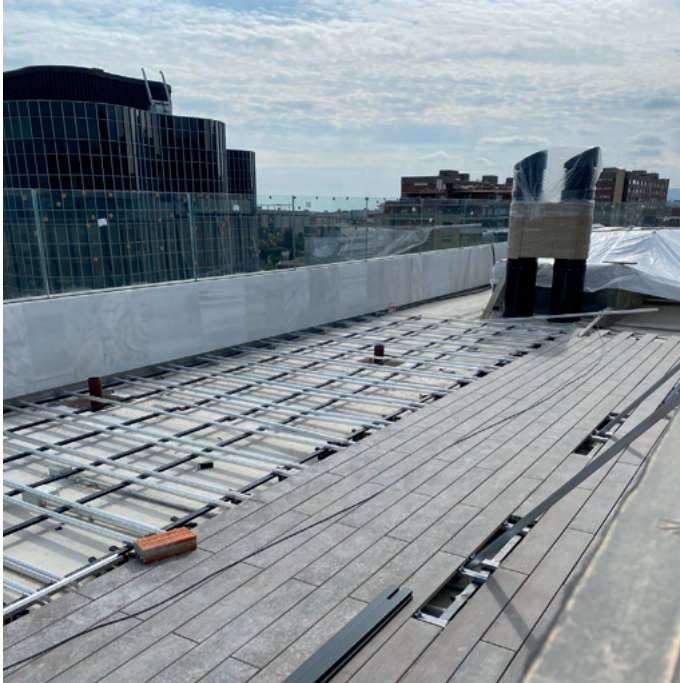


NINE ELMS MARKETING ROOF TERRACE · LONDON · EXADECK TECA



# EXADECK

ROOFTOP · LONDON · EXADECK TECA



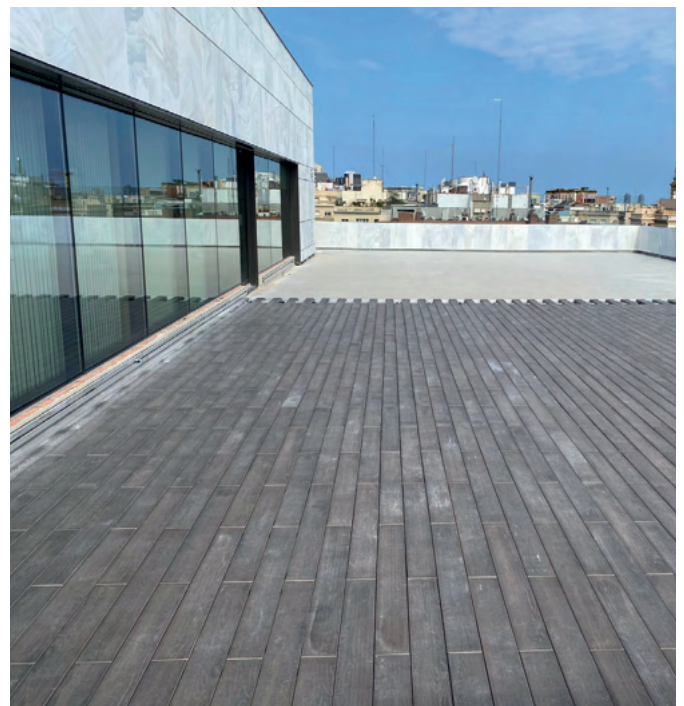
PENTHOUSE · CARDIFF BAY · EXADECK MAPLE



PRIVATE ROOF TERRACE · CORNWALL · EXADECK TECA



PRIVATE · BARCELONA · EXADECK ANTICO

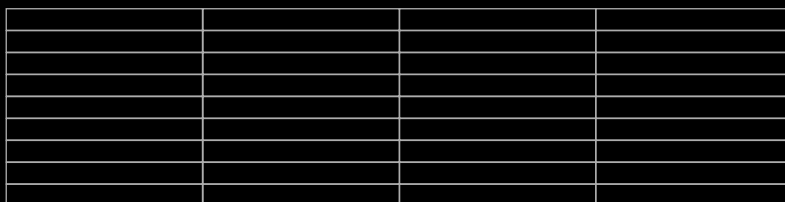


# EXADECK SYSTEM

## LAYOUTS

EXADECK can be laid in different patterns to create varying layouts. The boards can be laid linearly so that their vertical and horizontal joints coincide or in staggered, with a 50% offset so that the short end of each board is aligned with the middle of the adjacent one. EXADECK boards should never be supported by fewer than 4 battens.

### LINEAR LAYOUT



### STAGGERED LAYOUT

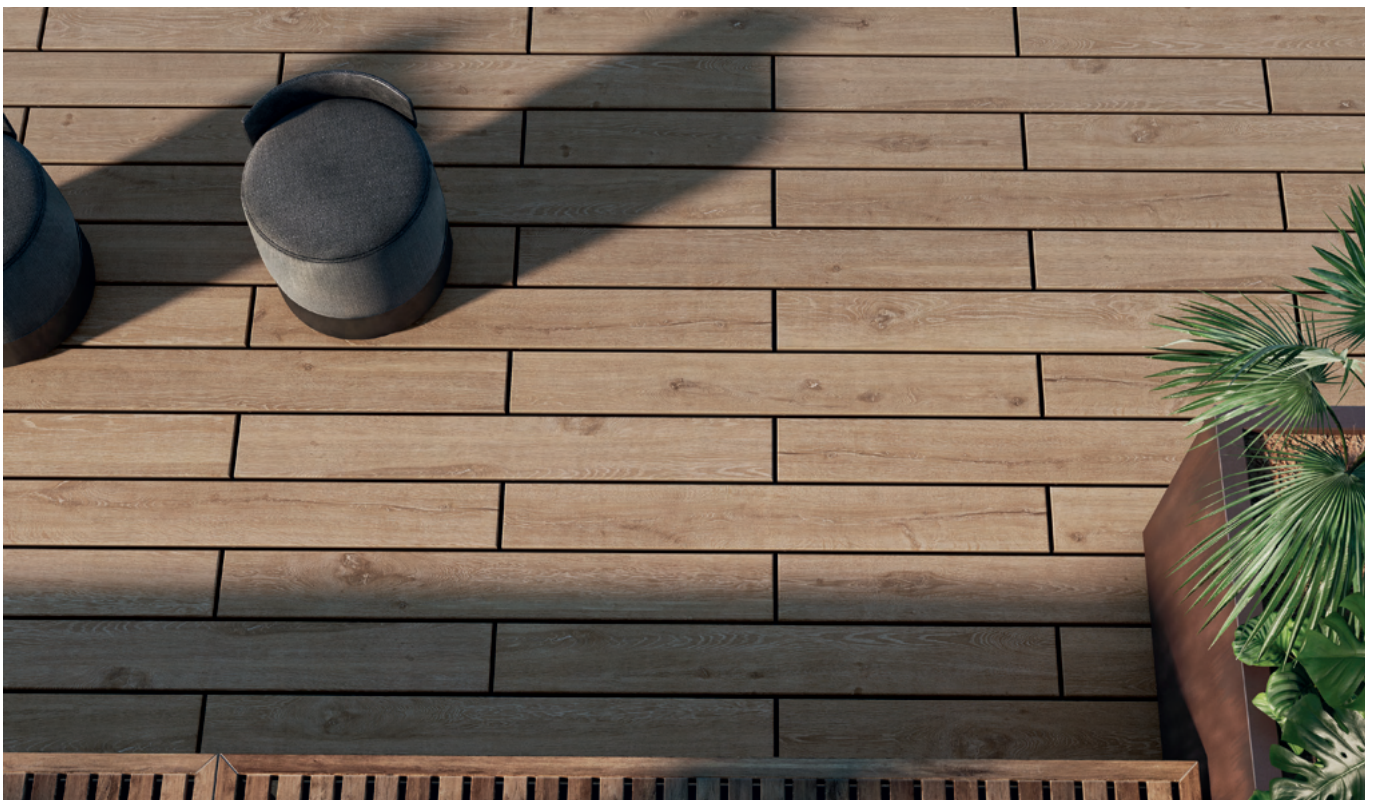


Boards per m<sup>2</sup> (including tile joint) = 5.55 full boards.

# EXADECK



Linear Layout



Staggered Layout

## CLEANING UP NEWLY LAID DECKING

Thanks to their manufacturing process, EXADECK boards are easy to handle and clean following their installation. Due to worker movements across the worksite and other similar circumstances, the boards may sometimes get dirty during the installation process.

Once all the work is over, the newly laid decking should be cleaned with water and then dried with a clean cloth. In the case of persistent stains, clean the boards again with water and a neutral soap detergent, avoiding abrasive substances.

## CARE

Exadeck extruded porcelain boards are manufactured to guarantee a water absorption rate of less than 0.5%. As a result, dirt will not penetrate the boards and it will remain deposited on the surface.

To clean away this surface dirt, use a pressure hose with water and then dry the surface with a clean cloth. In the case of tougher dirt, clean the boards again with water and a neutral soap detergent.

In fairly or very polluted areas, leading to a high build-up of dirt on the boards, a grease remover diluted in water can be used. Apply the solution to the surface and leave it to act for 4 to 5 minutes. Then scrub the surface with a brush. Lastly, rinse the surface with plenty of water and dry it with a cloth.

With the Exadeck removable decking system, each individual board can be removed to carry out possible maintenance work to the area beneath it.

Although only minimal care is required, the decking system should be cleaned from time to time to conserve its original appearance, hence avoiding costlier maintenance at a later date.

The substrate for the decking must be completely stable, with a slope of at least 5 mm per linear metre (0.5%) in the direction of the battens so that water can drain away. The battens should run in the same direction as the slope of the substrate on which the system is laid to guarantee optimum water drainage.

For ordinary maintenance, there are suitable products specifically for ceramics. In the event of using complementary cleaning methods using brushes or pads, do not use these types of abrasive elements of a different nature under any circumstances.

Fire Deck recommends using Dry Treat cleaning products.



Extrusion process is a forming technique for the manufacture of ceramic products. Basically this process consists in forcing the passage, through the application of a pressure, of the paste with a plastic consistency through a matrix.

The manufacture of tiles by the extrusion process entails four main phases: kneaded, shaping, drying and firing.

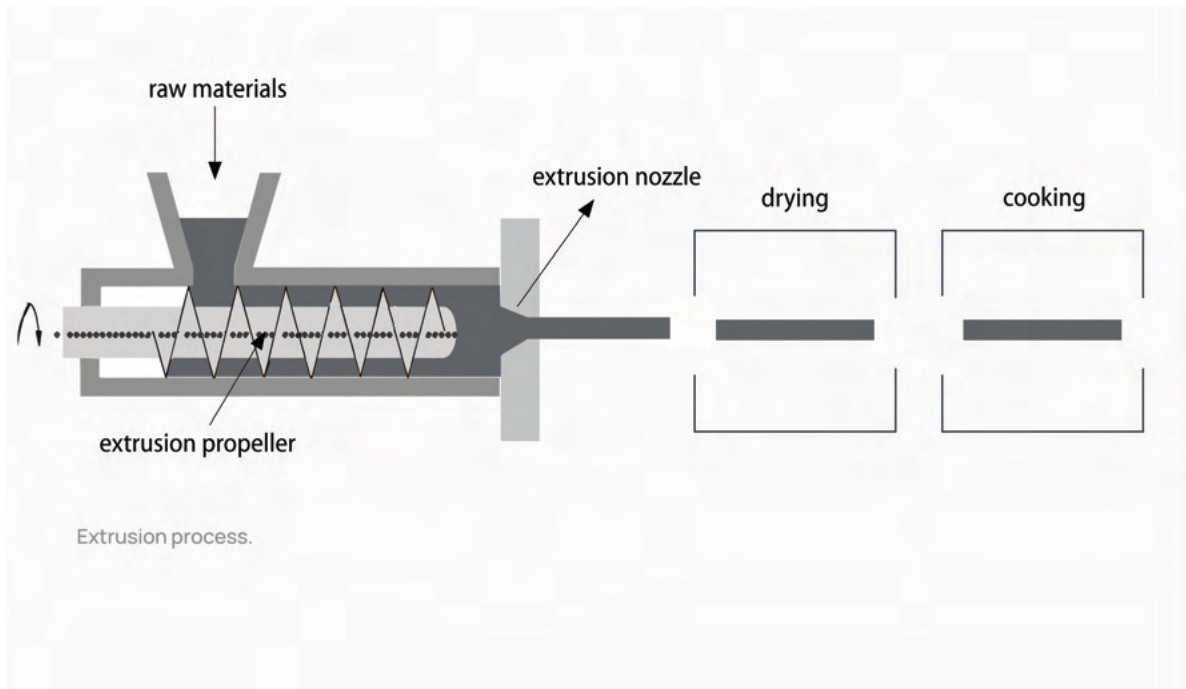
- The kneading consists in the mixing with water of the raw materials previously prepared and ground. This provides an easily extrudable paste.
- In the shaping stage, the plastic mass using vacuum pressure is kneaded and pushed through the nozzle to make tiles. This process is widely used to make special tiles pieces like steps or swimming pool border tiles, ... etc.
- Once the tiles have been shaped, hot air is used to remove the moisture content.
- Afterwards they are fired to high temperatures, to obtain a perfect vitrification.

With this process, the tiles can be recycled completely and up to 45% recycled materials are accepted in their standard process.

The raw materials selected, the careful production process with the most advanced technologies, and the work of our human team mean that the product obtained has exceptional technical characteristics.













In addition, extrusion gives the parts a homogeneous, stable and mechanically resistant internal microstructure.








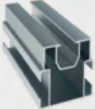




With this process, three-dimensional geometries can be obtained on the pieces which are impossible to achieve with the traditional compacting process



# TECHNICAL DATA

Extruded glazed porcelain stoneware, according to UNE-EN 14441, group Ala

TEST STANDARD	DESCRIPTION	STANDARDS	EXADECK SERIES
ISO 10545-2	 Dimensions Length and width Thickness Straightness of sides Rectangularity Surface Flatness	$\pm 1,0\%$ $\pm 2,0$ mm $\pm 10\%$ $\pm 0,5\%$ $\pm 1,0\%$ $\pm 0,5\%$	$\pm 0,6\%$ $\pm 2,0$ mm $\pm 5\%$ $\pm 1,2$ mm $\pm 0,5\%$ $\pm 2$ mm $\pm 0,5\%$ $\pm 0,5\%$
ISO 10545-3	 Water absorption	$\leq 0,5\%$	$\leq 0,5\%$
ISO 10545-4	 Breaking strength	$\geq 3000$ N	$\geq 15.000$ N
ISO 10545-7	 Resistance to surface abrasion	1 - 5	5
ISO 10545-9	 Resistance to thermal shock	required	guaranteed
ISO 10545-11	 Craze resistance	required	guaranteed
ISO 10545-12	 Frost resistance	required	guaranteed
ISO 10545-13	 Chemical resistance	minimum B	A/LA/HA
ISO 10545-14	 Stain resistance	minimum class3	class 5
EN 16165 ANEXO A	 Anti-slip resistance (barefoot ramp test)	-	class C
EN 16165 ANEXO B	 Anti-slip resistance (shod ramp test)	-	R11
EN 16165 ANEXO C	 Slip resistance (pendulum test)	required	class 3

					
	Size	Pieces/box	Kg/box	Boxes/pallet	Kg/pallet
	STANDARD BOARD 14,1x121,7x2,6 cm	2 5,65 pcs/m <sup>2</sup>	16,64	52	866
	SQUARE EDGE BOARD 14,1x121,7x2,6 cm	-	-	-	-
	NONSTRUCTURAL ALUMINIUM RAIL 3,5x2,5x220 cm	300 uds/pack	324	-	1,08 kg/ud
	ALUMINIUM PRO RAIL 4x4x220 cm	100 uds/pack	145	-	1445
	* PRO CLIP	100 uds/bag	1,25 kg/bag	8 bags/box	0,0125 kg/pc
	STARTER CLIP 10 MM.	25 uds/box	0,2375	-	0,0095 kg/pc
	** NOISE CANCELLING FOAM TAPE (ROLL 20M)	5 rolls/box	2,5	-	0,5 kg/pc
	*** NYLON ANCHOR SCREW 6X60	50 pcs/box	0,5 kgs/box	-	0,01 kg/pc



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