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TWINFLOOR outdoor

RAISED
FLOOR

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Twin floor panel is characterized by the coupling of the gres or stone top finish by a specific adhesive with a reinforcing 15 mm thick layer made of a homogeneous and fibre-reinforced structural core, whose density is 2.200 Kg/ m^3.

TWIN FLOOR OUTDOOR

This support is completely made of recycled components that are pressed and sintered at very high temperatures; the result is a product with very high mechanical performance that ensures dimensional stability against damp, water and temperature changes.

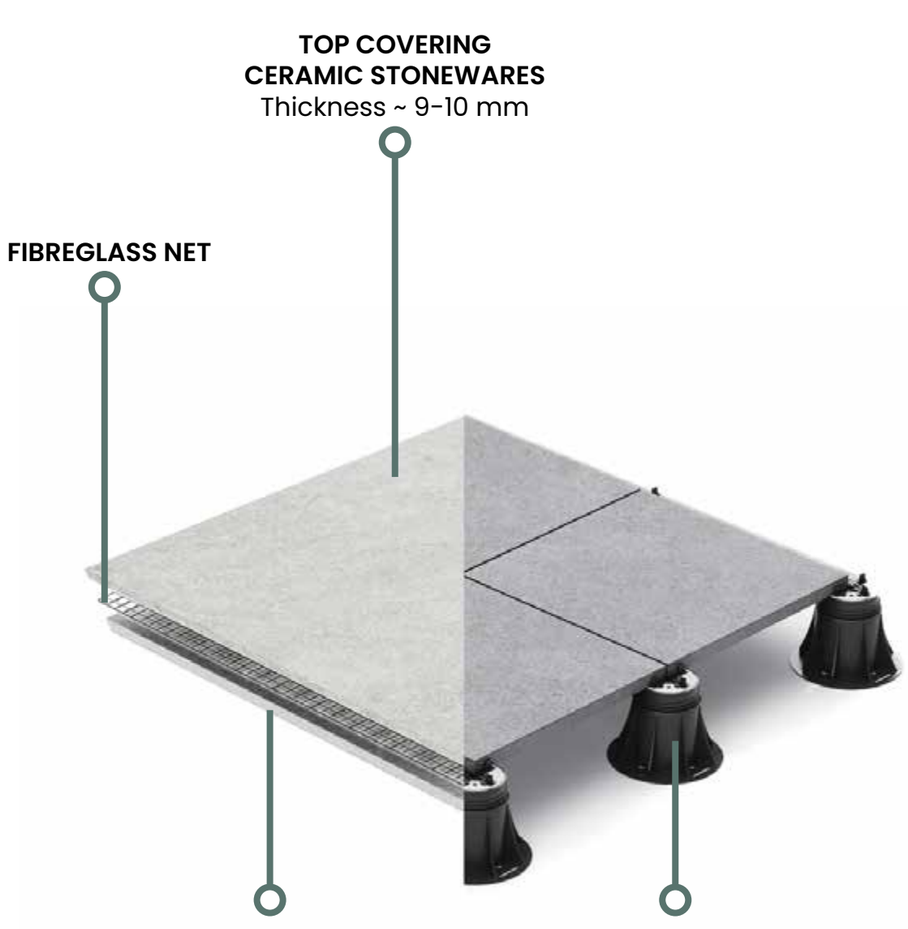
The panel will thus have a total thickness of only 26 mm and it can be made without bevel or with a slight chamfer.

The special cut-cone shape of the panel's perimeter facilitates the rainwater draining and the damp rising.

Ideal for public spaces' interior atria, high traffic or particularly valuable terraces.

Panel, nominal dimension 600x600mm, made of a homogeneous structural monolithic core, 15mm thick, composed by inert materials at very high density ((Kg/mc 2.200). Top covering in gres of ceramic, 9 - 10mm thick, nominal dimension 600x600mm.
Equipped with fibreglass reinforcement net between the two layers in case of finished floor heights > 20cm.
N.B.: Due to its particular composition, the panel is water - repellent, frost resistant and non - absorbent.

COMPOSITION



TECHNICAL-PHYSICAL CHARACTERISTICS

	NORM	U.M.	VALUE	TOLLERANCE
Nominal dimension of the sides	EN 12825	mm	598 x 598	±0.2 (class1)
Nominal thickness finished panel		mm	25	±0.3 (class1)
Planarity	-	mm	≤0.6	-
Difference of diagonals	-	mm	≤0.4	-
Inclination of perimeter sides	-	grades	0	-
VERTICAL ELECTRICAL RESISTANCE OF THE PANEL WITH COVER:				
Antistatic	EN 1081	Ω	REV > $2x10^{10}$	
Resistant to thermohygrometric	ISO 10545-9	-	no alteration/effect on the panel	
Dimensional change (after 24 hours of immersion in water)	ISO 10545-3	-	0%	
Fire reaction	D.M.15/03/05 D.M.25/10/07 EN 13501-1	Class A1*		

* Expected data

MECHANICAL CHARACTERISTICS

		EXTERNAL SUPPORT
Working load*	kN	2.0
Ultimate load*		4.0

Note: There are no normatives that regulate the load resistance of outdoor floors.
(*) Internal test in our factory.

OUTDOOR SUPPORTS

EH

The supports are available in 3 different versions: EH12 (h = 12mm), EH15 (h = 15mm) and EH20 (h = 20mm).
In case of differences in level or imperfections of slabs, are provided 4 exclusive balancers which allow a small levelling of the floor.

It's available an EH12 support with 8mm high spacing tabs for the installation of self - supporting tiles. The LH3 levelling disc (3mm thick) can be placed on top or under any support.

They are made of a single polypropylene element, diameter 150mm and height 12mm; in the top part are present 4 spacing tabs, height 11mm and thick 3mm. There are holes in the base for the water drainage.

NM

The supports are composed of a head in bicomponent material with anti-noise and anti-slip rubber finish, and polypropylene elements:

- support base with a diameter minimum of 205mm
- a screw having a height varying from 25 mm to 40mm (equipped with block system)
- and a head with 4 spacing tabs, 12mm high and 2-3-4mm thick.

There are holes in the base for the water drainage and 4 "guidelines" to facilitate cutting in case of need.

The height adjustment is carried out by means of a special adjustment key.

SB

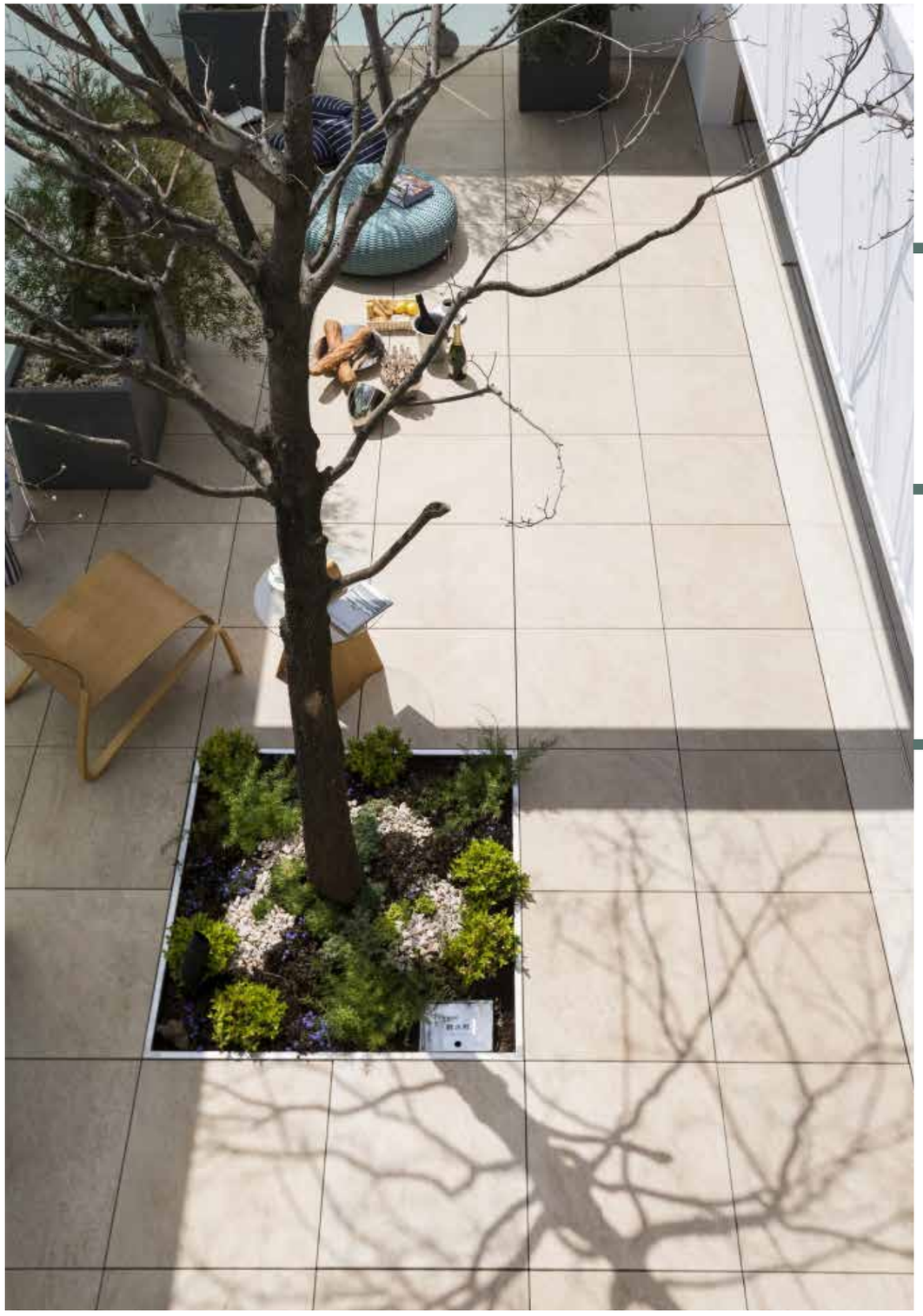
The supports are made of polypropylene elements composed of a support base, minimum diameter 205mm, and a head/ screw, height 27mm up to 35mm. The head is provided with 4 spacing tabs, 12mm height and 4mm thick.

There are holes in the base for the water drainage and 4 "guidelines to facilitate cutting in case of need.

SE

The supports are suitable for outdoor raised oor with adjustable height from 28mm to 550mm. They are equipped with a self-leveling head system that automatically compensates any gradient up to 5%.

The height adjustment is carried out by means of a special adjustment key which guarantees perfect alignment of the entire surface.



THE SUBSTRUSCTURE IS COMPOSED OF PLASTIC SUPPORTS IN TWO MAIN VERSIONS:

NON-ADJUSTABLE SUPPORTS, composed of a single piece with fixed height from 12 mm to 19 mm. They are characterised by four tips that allow to realize the gap between the panels.
The plastic material is particularly resistant to thermal shock, sour and basic solutions and weather agents.

ADJUSTABLE SUPPORTS, composed of a jack head threaded in its bottom part. The base is concave on the bottom and has a non-slip surface. The side holes allow water draining. The ring nut allows an easy and perfect height regulation and ensures a perfect final levelling of the floor.livellamento finale della pavimentazione.

AVAILABLE HEIGHTS FOR OUTDOOR SUBSTRUCTURE:

SUPPORTS	HEIGHTS h
Non-adjustable supports	25mm
	35mm
Adjustable supports	35-70mm
	50-70mm
	65-100mm
	95-130mm
	125-160mm
	155-190mm
	185-220mm
	115-220mm
	215-320mm
	315-420mm
	415-520mm
	515-620mm

ADVANTAGES

EASILY AND QUICKLY INSPECT THE UNDERFLOOR PLENUM in case of repair of the insulating coating and consequently save costs of demolition and refurbishment of slabs and finishing materials, as well as save time during repair intervention.

IMPROVE THE THERMAL INSULATION, thanks to the plenum between the raised floor and the slab.

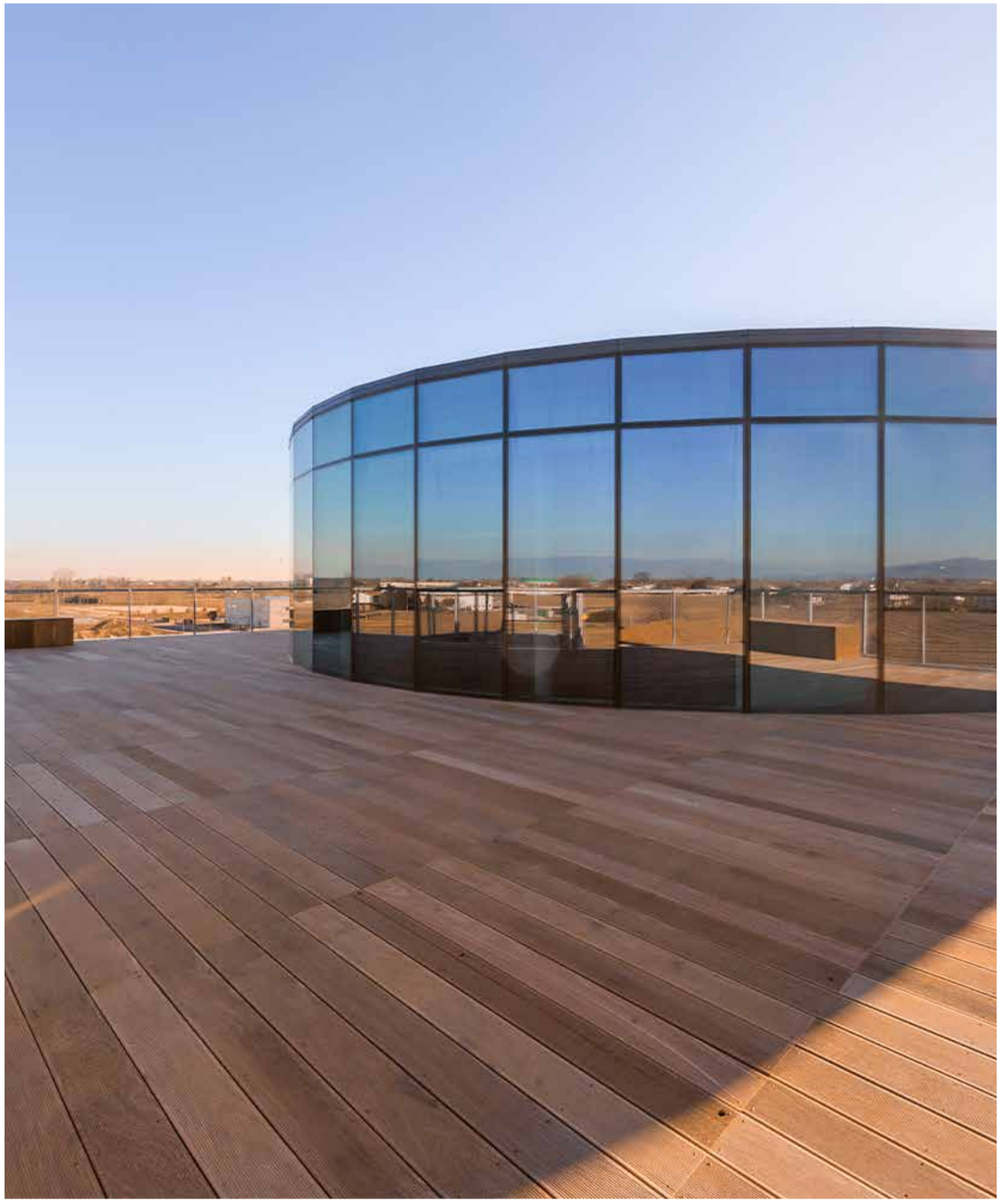
VENTILATE THE PLENUM with consequent elimination of damp and of radon gas.

DRAIN WATER, making the floor dry and safe immediately

LAY THE FLOOR FASTER than with traditional floor and consequently time saving. The absence of floor's settling time eliminates the risk of water infiltration into the slab

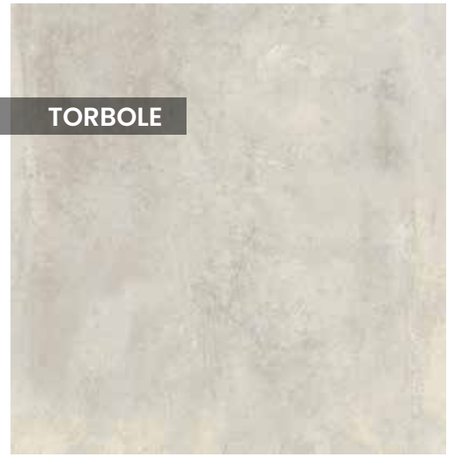
Avoid making the screed above the coating and gluing the finishing materials, with consequent **MONEY SAVING.**

Avoid using chemical and concrete adhesives **TWIN FLOOR'S COMPONENTS ARE ECO-FRIENDLY.**



TECHNICAL DETAILS	
Fire reaction class	1
Electrical resistance	≤ 2X10^9 ohm
Acoustic insulation	≥ 38 db
Density	2200 KG/m^3
Dimensional change (after 24 hours immersion in water)	0%
Weight of panel 60x60	± 20,5 Kg
Weight of floor per m^2	± 58 Kg
Specific heat	455,30 ± 67,73 J/Kg°K
Thermal conductivity λ *	0,3741 W/mK
Thermal resistance R	0,0668 m^{2}K/W
Dynamic stiffness	379,34 MN/M^3
Concentrated load (outdoor version)	550 Kg*
Distributed load (outdoor version)	1.500 Kg/m^2*
Concentrated load (indoor version)	650 Kg*
Distributed load (indoor version according to the substructure)	1.500/2.500 Kg/m^2*
Sound absorption (average value real part between 50 and 6300 Hz)	λ 0,025
Acoustic impedance Z (average value real part between 50 and 6300 Hz)	27,6
Acoustic admittance A (average value real part between 50 and 6300 Hz)	0,01
Acoustic reflection (average value real part between 50 and 6300 Hz)	0,99
Frost resistance	EXCELLENT
Thermal shock resistance	EXCELLENT

* empirical tests in the factory


TORBOLE


BARDOLINO


RIVA


LUGANA


SIRMIONE


LAZISE

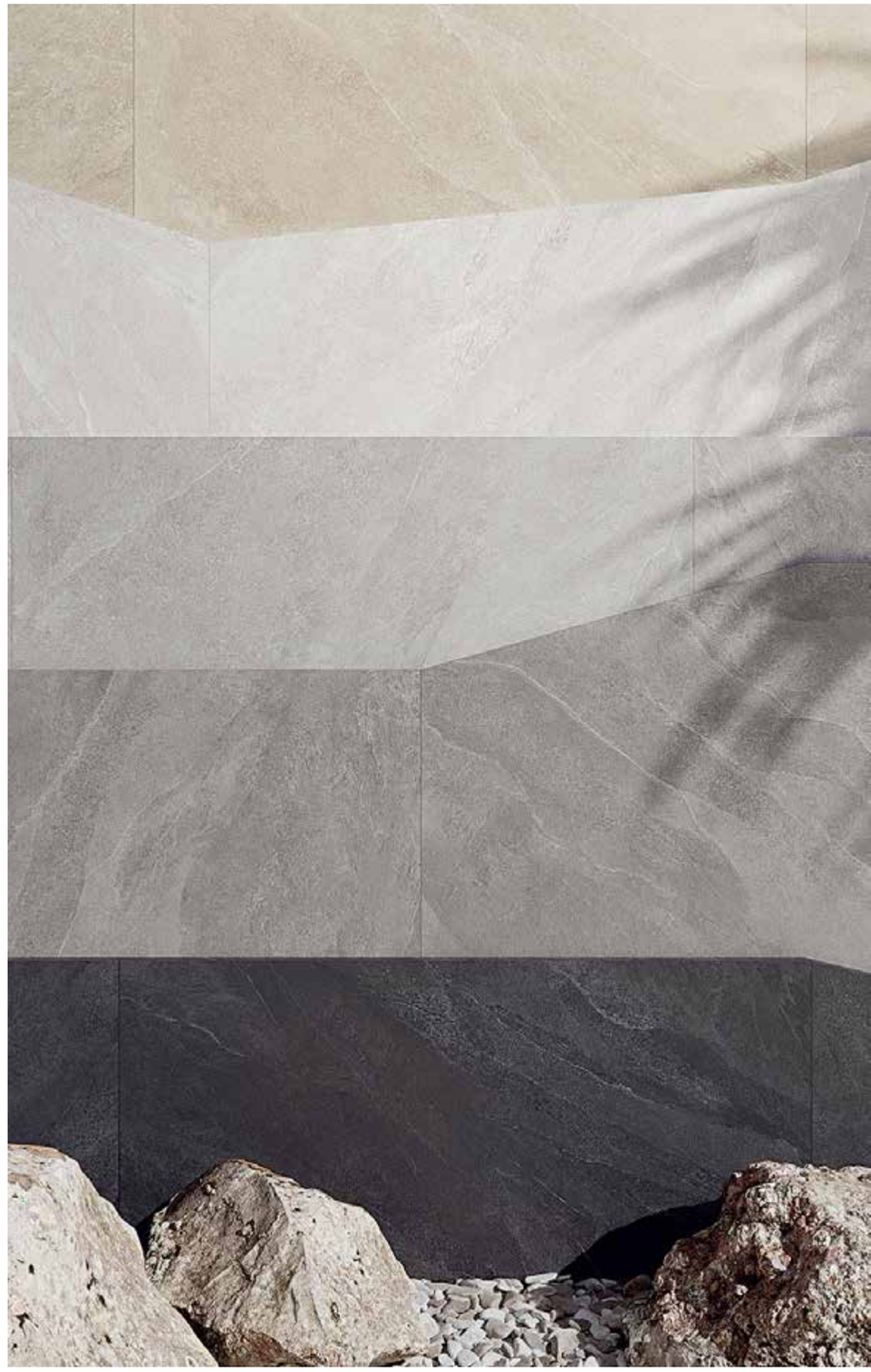
GHIACCIO

PERLA

FUMO

LAVA

SABBIA



DECKING FLOOR

VARIOUS TYPES OF WOODEN DECKING AVAILABLE ON REQUEST

Outdoor raised flooring, available in both natural wood (in various species) and WPC (Wood Plastic Composite), represents a modern and functional solution for terraces, pool edges, and outdoor spaces. Thanks to the combination of aesthetics and durability, these systems offer non-slip, waterproof surfaces that remain stable over time and require no periodic treatment. They are available in different formats (planks and tiles) and thicknesses, fixed with stainless steel screws from the underside, and installed on a substructure with joists and adjustable pedestals. This ensures flatness, drainage, and adaptability to any surface, guaranteeing easy installation, long-lasting performance, and a consistently refined appearance.

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