

WOODS

PLANKS SIZED





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Why choose POPA 2.0?



POPA 2.0 is designed to make elevated outdoor paving simpler, stronger, and more economical. It is lighter and easier to handle than concrete blocks, while offering better fire resistance and durability than wood , and greater strength and impact resistance than ceramic solutions. Each can support over 2000 lb, and for raised installations it is often more cost-effective than traditional grating or grid structures. Built to perform in extreme conditions, POPA 2.0 resists damage from frost, snow, ice, and heat, operating reliably from -40°F to 210°F.

Beyond performance, it's made for practicality over time. The system is removable, reusable, inspectable, and easy to install, making maintenance and future interventions far less disruptive. Cleaning is straightforward thanks to its resistance to stains, chemicals, and corrosion from salt; it is also fade resistant, slip resistant, and quick draining. The slight gap between gres slabs promotes rapid water drainage, avoiding standing water and reducing the need for visible drainage elements such as grids or discharge pipes. The result is a planar, uniform surface without uneven levels - so slip resistant -

with a clean architectural finish.

POPA 2.0 also contributes to comfort and efficiency. It offers thermal insulation in both hot and cold conditions, supports strong acoustic performance, and requires virtually no maintenance. Because the last layer of concrete and glue is not necessary, it reduces load on attics and balconies, making it an especially smart choice where weight matters. Available in a wide range of colors and styles, and suitable for installation on single-ply membranes, POPA 2.0 combines design flexibility with long-term lifecycle cost savings.

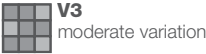
INTENDED USES

POPA 2.0 combines high aesthetic value with strong technical performance, making it adaptable and functional for virtually any outdoor environment. In commercial areas, it is ideal for dehors and hospitality spaces, swimming pools, beach resorts, walkways and pathways, events and exhibitions, and parking lots. In residential areas, it is perfectly suited for patios, terraces, gazebos, swimming pools, oriental gardens, stairs, rooftops, and car parks.

Wood reimagined, detail by detail

Three intense shades,
two sizes, one tactile
elegance.

Reinvent the collective idea of wood-effect porcelain stoneware with Woods, a project created to express the true value of the material through meticulous attention to detail. Every grain pattern, tonal shift, and naturally imperfect trace is designed to become an act of refined realism - an expression of tactile elegance that feels authentic to the eye and balanced in design. The collection is offered in three intense shades (Driftwood, Pinewood, and Oakwood) each with its own personality, from bright and airy to warm and timeless. Available in two versatile sizes, 24"x48" and 12"x48", Woods supports both seamless contemporary surfaces and more dynamic compositions, delivering the natural character of wood with the performance, durability, and precision of porcelain stoneware.





Driftwood
24"x48"

DRIFTWOOD

Natural calm, lived-in elegance

Driftwood is the lightest, most airy interpretation in the Woods series: a nuanced, sun-washed tone inspired by timber shaped by time, salt, and wind. Its soft chromatic movement and delicate grain create a natural sense of space, making rooms feel brighter and more open without losing warmth. Designed to highlight the project's attention to detail, Driftwood lets every micro-irregularity read as tactile refinement, with a balanced mix of linear texture and gentle knots that looks authentic

yet never rustic. It's ideal for contemporary outdoors, hospitality, and residential settings where you want an understated wood mood with a refined, architectural feel. Available in 24"x48" and 12"x48", Driftwood supports both continuous surfaces and dynamic layouts.



24"x48" $\pm$ 3/4"
US8052 DRIFTWOOD 2.0



12"x48" $\pm$ 3/4"
US8055 DRIFTWOOD 2.0







Oakwood
12"x48"

OAKWOOD

Timeless depth, architectural warmth

Oakwood is the most classic and grounded shade of the Woods project: a rich, balanced tone that evokes the enduring appeal of oak, interpreted through contemporary porcelain stoneware. Its grain is structured and confident, with refined contrasts and authentic material value. Oakwood adds warmth and visual stability to outdoors, making it a versatile choice for both modern and traditional settings. The

surface conveys tactile elegance through detail: subtle transitions, natural shading, and a realistic pattern that maintains coherence across large surfaces. Offered in 24"x48" and 12"x48", Oakwood supports everything from clean, linear installations to more articulated design schemes, delivering a sophisticated "wood architecture" effect.



24"x48" $\pm$ 3/4"

US8050 OAKWOOD 2.0



12"x48" $\pm$ 3/4"

US8053 OAKWOOD 2.0







Pinewood
24"x48"

PINEWOOD

Fresh character, vibrant natural energy

Pinewood brings a brighter, more expressive warmth to Woods, inspired by the lively personality of resinous woods and their distinctive grain rhythm. The shade sits in a natural dark beige spectrum, enriched by subtle tonal variations that make the surface feel real and dimensional. Each vein, knot, and irregular mark becomes part of an elegant tactile narrative designed to enhance the

material's authenticity while keeping the overall look contemporary. The two sizes, 24"x48" and 12"x48", allow seamless flooring effects. Combine Pinewood with warm whites, natural fabrics, cotto accents, or brushed brass to amplify its sunny tone, or contrast it with deep colors for a more graphic, modern statement.



24"x48" $\pm$ 3/4"
US8051 PINEWOOD 2.0



12"x48" $\pm$ 3/4"
US8054 PINEWOOD 2.0

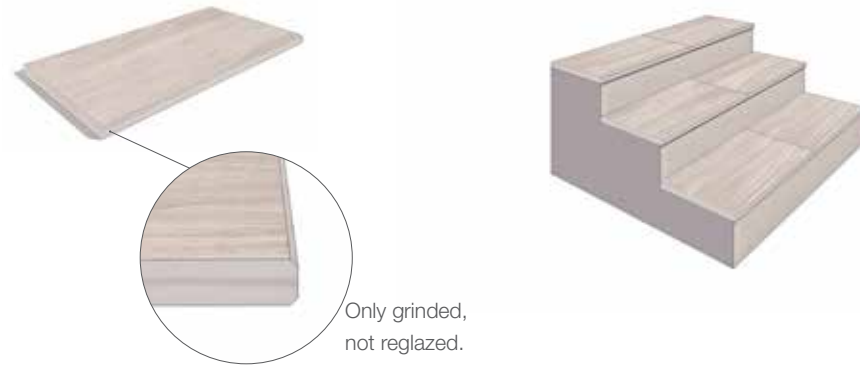




SPECIAL PIECES

DOUBLE BEVEL COPING

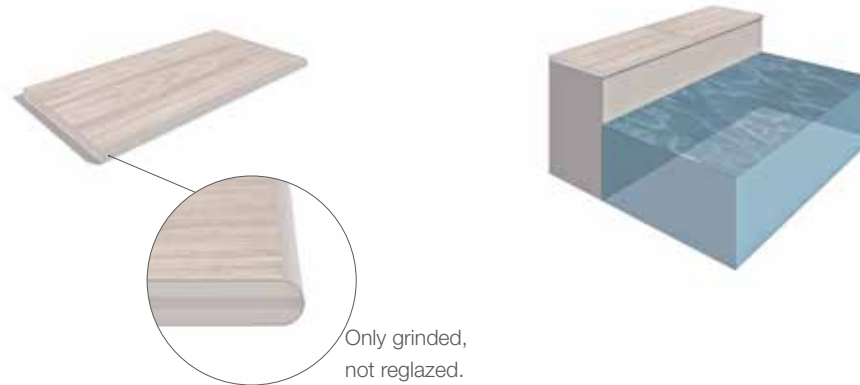
12"x24"
Available in all colours.



Only grinded,
not reglazed.

FULL BULLNOSE COPING

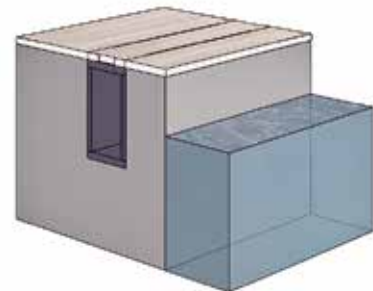
12"x24"
Available in all colours.



Only grinded,
not reglazed.

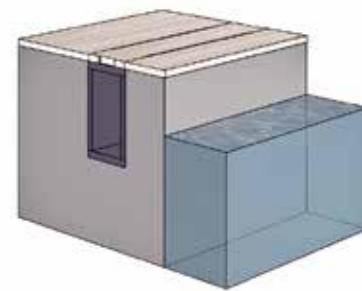
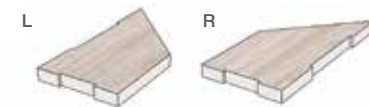
BLIND GRID

6"x24" rectified / 6"x12" rectified / 6"x6" rectified
Available in all colours.



BLIND GRID CORNER

6"x6"x12" rectified
Available in all colours.



For bullnose and double bevel the actual glazed surface of color stops at the start of the radius, it shows only the body color.

L SHAPE MITERED EDGE

12"x24" H2"



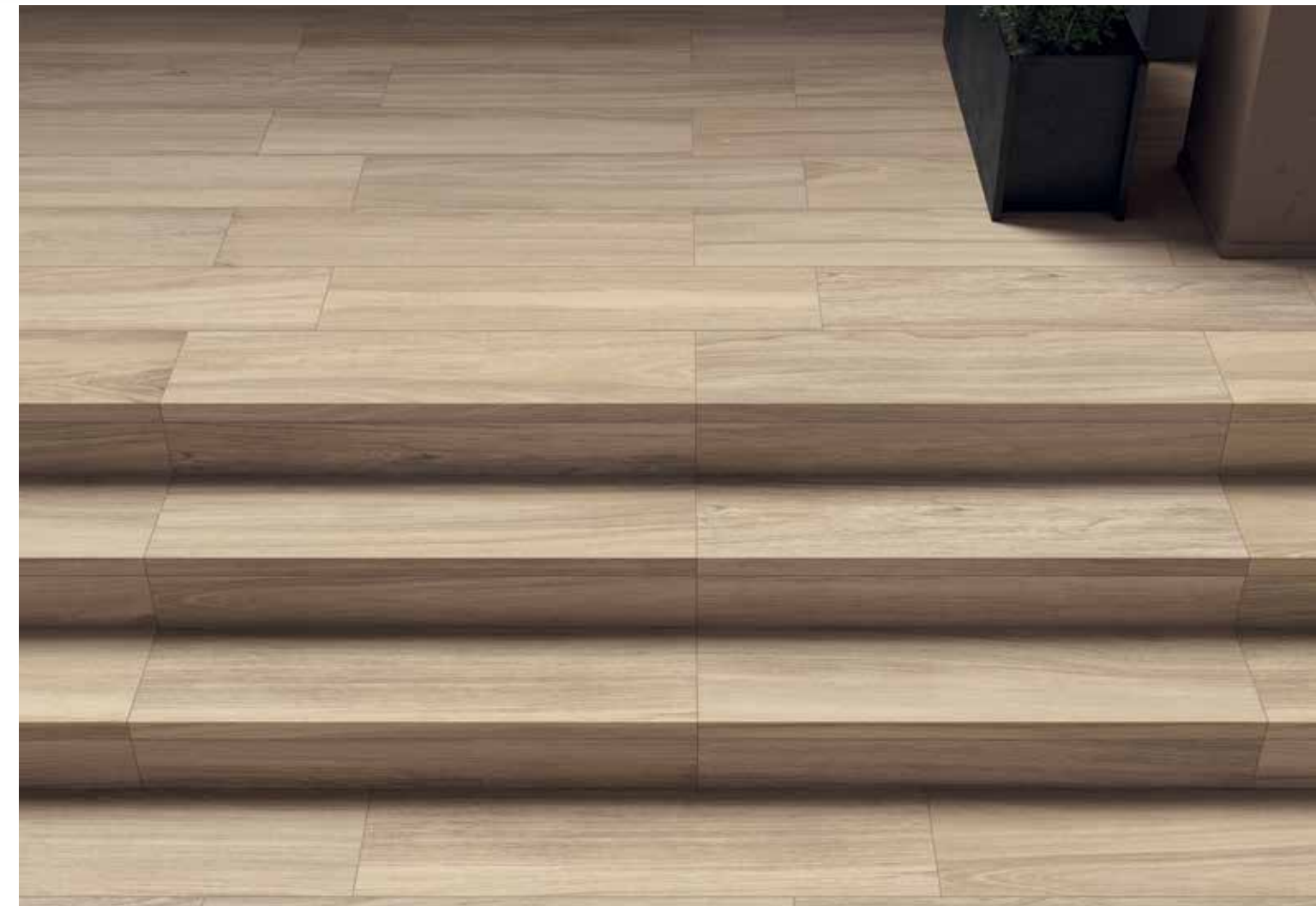
L SHAPE WITH 2 SIDES CORNER CLOSURE LEFT OR RIGHT

12"x24" H2"



L SHAPE WITH 45° CUT

12"x24" H2"



SURFACE TEMPERATURE

All outdoor products exposed to direct sunlight heat up. Kronos USA surfaces also warm under sun exposure, but generally less than many comparable materials. **ISO 15536-1:2006** defines burn threshold temperatures for skin contact with **hot solid surfaces**, while ISO 13732-1:2006 sets guidance for hot-surface limits, including **132.8°F for ceramic surfaces**.

The following chart summarizes the **Kronos USA products** and their corresponding **surface temperature values**. These values has been obtained keeping the samples outside on direct sunlight exposure, with an external temperature in August of 96 °F, in Clarksville, Tennessee.

PRODUCT ITEM	T (°F)	PRODUCT ITEM	T (°F)
Quarzite Crystal White	117.9	Monocromatica Cognac	127.8
Indiana Limestone Blanco	117.9	Prima Materia Cenere	127.8
Terrazzo White Black	118.2	Icon Travertine Avorio	128.8
Dolomite Dove	119.7	Terrazzo Gray Black	128.9
Terrazzo Cool White	119.7	Woods Oakwood	129.4
Dolomite Wheat	120.0	Ocean Stone Tan	129.7
Monocromatica Bone	121.8	Terrazzo Charcoal	131.5
Dolomite Steel	122.7	Cotto	131.7
Terrazzo Cool Grey	122.7	Quarzite Laguna	131.8
Quarzite Cloud	123.0	Monocromatica Basalt	131.9
Indiana Limestone Warm Grey	123.0	Icon Travertine Walnut	132.1
Monocromatica Sand	123.8	Prima Materia Sandalo	132.1
Stone Creamstone	124.0	Icon Travertine Cappuccino	133.0
Ocean Stone White Cool	124.9	Pennsylvania True Blue	133.2
Icon Travertine Pearl	125.2	Woods Pinewood	133.7
Icon Travertine Crema	125.2	Tex Wood Grey	133.8
Quarzite Sandy Island	126.3	Monocromatica Ash	134.0
Indiana Limestone Buff	126.3	Stone Multicolor	135.0
Prima Materia Cemento	126.7	Ocean Stone Black	136.4
Woods Driftwood	126.7	Pennsylvania Full Color	136.9
Icon Travertine Shell	126.9	Stone Moonstone	137.1
Icon Travertine River	126.9	Tex Wood Brown	138.0
Icon Travertine Silver	126.9	Timber Wood Teak	138.4
Tex Wood Ivory	126.9	Timber Wood Ipe	142.9

Thermal expansions effects on surfaces

Flat roofs face strong thermal swings (-15°C to +70°C), so different material expansion rates must be considered. Regulations require elastic expansion joints at perimeters and to subdivide surfaces. Flooring also expands/contracts and sits on moving structures, sometimes shifting by centimeters. With dry systems this can cause joint misalignment or module uncoupling; glued floors may crack. Use wide perimeter joints, avoid heavy static loads, and split areas at slope changes using elastic accessories.



Understand burn-risk thresholds and Heat Island mitigation: ISO surface-temperature limits and SRI explain how materials stay cooler in sun.

SRI

What is the solar reflectance index?

In October 2005, the USGBC released new guidelines for LEED credits. The New Construction Version 2.2 revised the values required for mitigating the heat island effect. The guidelines are now based on the Solar Reflectance Index (SRI) of specified materials as calculated by ASTM E 1980.

Emittance: The emittance of a material refers to its ability to release absorbed heat. Scientists use a number between 0 and 1 to express emittance. With the exception of metals, most construction materials have emittances above 0.85.

Solar reflectance: Is the ratio of the amount of solar radiation reflected from a surface to the total amount reaching that surface.

Solar Reflectance Index (SRI): is a value that incorporates both solar reflectance and emittance in a single value to represent a material’s temperature in the sun. SRI quantify es how hot a surface would get relative to standard black and standard white surfaces. It is calculated using equations based on previously measured values of solar reflectance and emittance as laid out in the American Society for Testing and Materials Standard E 1980.

SRI values for Woods

Color	SRI	LEED	R AVG	EM AVG
Driftwood	75	passed	0,635	0,914
Oakwood	68	passed	0,589	0,910
Pinewood	58	passed	0,505	0,920

Fire Resistant

Porcelain stoneware is an ideal choice for rooftop decks where **fire safety** is a top priority. Fully A1-rated and non-combustible, it delivers far better fire resistance and long-term durability than wood, without the risk of ignition. A smart build-up pairs a concrete base with adjustable roof pedestals, which support each paver's weight, keep spacing perfectly uniform, and help keep the surface stable.

Porcelain pavers can resist extreme heat without cracking or combusting, because they are kiln-fired at very high temperatures during manufacturing. Another key safety benefit: when exposed to flames, **porcelain does not emit smoke or VOCs, helping reduce harmful fumes in critical situations.** Combined with pedestals that help secure deck tiles in high winds, when embers can be carried for miles, this system adds an **extra layer of protection** for both residential and commercial projects.

Safety doesn't mean compromising design. Porcelain pavers come in hundreds of colors, textures, and finishes, including realistic wood-look options that recreate hardwood aesthetics without the same fire risk. For anyone seeking the safest non-flammable alternative to wood (and even many natural stones) on rooftop decks, fire-resistant porcelain pavers are a practical, versatile, and future-proof solution.



Fire-Resistant Porcelain Pavers
vs Real Wood: why choose
Woods 2.0
A1 non-combustible, durable,
low-maintenance, and true wood-
look beauty.

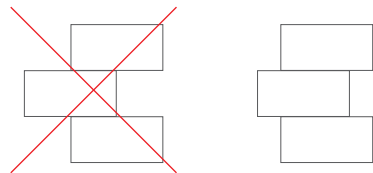
REAL WOOD vs WOODS 2.0

- Origin:** Natural timber from managed forests
- Composition:** Organic material
- Appearance:** Authentic grain, knots and natural tone variation
- Thickness:** Variable (typically 10–25 mm for flooring)
- Mechanical strength:** Good, but surface can dent or scratch
- Frost resistance:** Moisture and freeze-thaw cycles can cause warping/cracking
- Maintenance:** Requires regular care (oils/varnishes), protection from stains and moisture
- Fire resistance:** Combustible material; performance depends on treatment and thickness
- Installation:** Glued, nailed or floated; requires controlled substrate and moisture conditions
- Outdoor durability:** Limited unless using specific treatments; UV and water can degrade surface
- Aesthetics:** Warm, natural, highly authentic; aging/patina over time
- Cost:** Medium to very high (species, grade, format, treatments)
- Sustainability:** Renewable if FSC/PEFC certified;
- Water absorption:** Absorbs moisture; dimensional changes possible

- Origin:** Industrial porcelain product (Made in the USA – Clarksville, Tennessee)
- Composition:** Mixture of clays, feldspar, and sands fired at > 2152 °F
- Appearance:** Realistic wood graphics and tactile detail; available in various colors and textures
- Thickness:** Constant 3/4” thickness, ideal for outdoor and dry installations
- Mechanical strength:** Very high; excellent resistance to scratches, impact and wear
- Frost resistance:** Excellent; suitable for freeze-thaw conditions
- Maintenance:** Virtually maintenance-free
- Fire resistance:** Noncombustible ceramic material, subject to applicable U.S. code requirements
- Installation:** Dry installation (gravel, sand, grass) or raised system
- Outdoor durability:** Outstanding, even in marine or industrial environments
- Aesthetics:** Wood look with refined, consistent selection; controlled variation
- Cost:** Competitive, especially considering durability and low maintenance
- Sustainability:** EPD-certified, low environmental impact, recyclable
- Water absorption:** Extremely low (<0.1%)

LAYING INSTRUCTION

Any large or rectangle porcelain pavers should never be set in a running bond pattern, rather no more than **1/3 overlap**.



Because of the large format of the porcelain stoneware slabs and their pronounced anti-slip texture, which tends to hold a thin film of water, extra care is needed when designing the floor's slope/inclination (%) and deciding the laying direction. The chosen gradient must respect the architectural concept while ensuring effective natural drainage of rainwater. **The correct slope** can vary depending on geographical area, orientation, exposure, and whether the surface is fully open to weather; as a non-binding reference, the Swiss UPI office recommends a minimum slope of 1.5% per linear meter.

When **cutting 2 cm (3/4")** slabs, first take accurate measurements, mark the section to remove, and then cut using an electric cutting tool or a water-cooled circular construction saw.

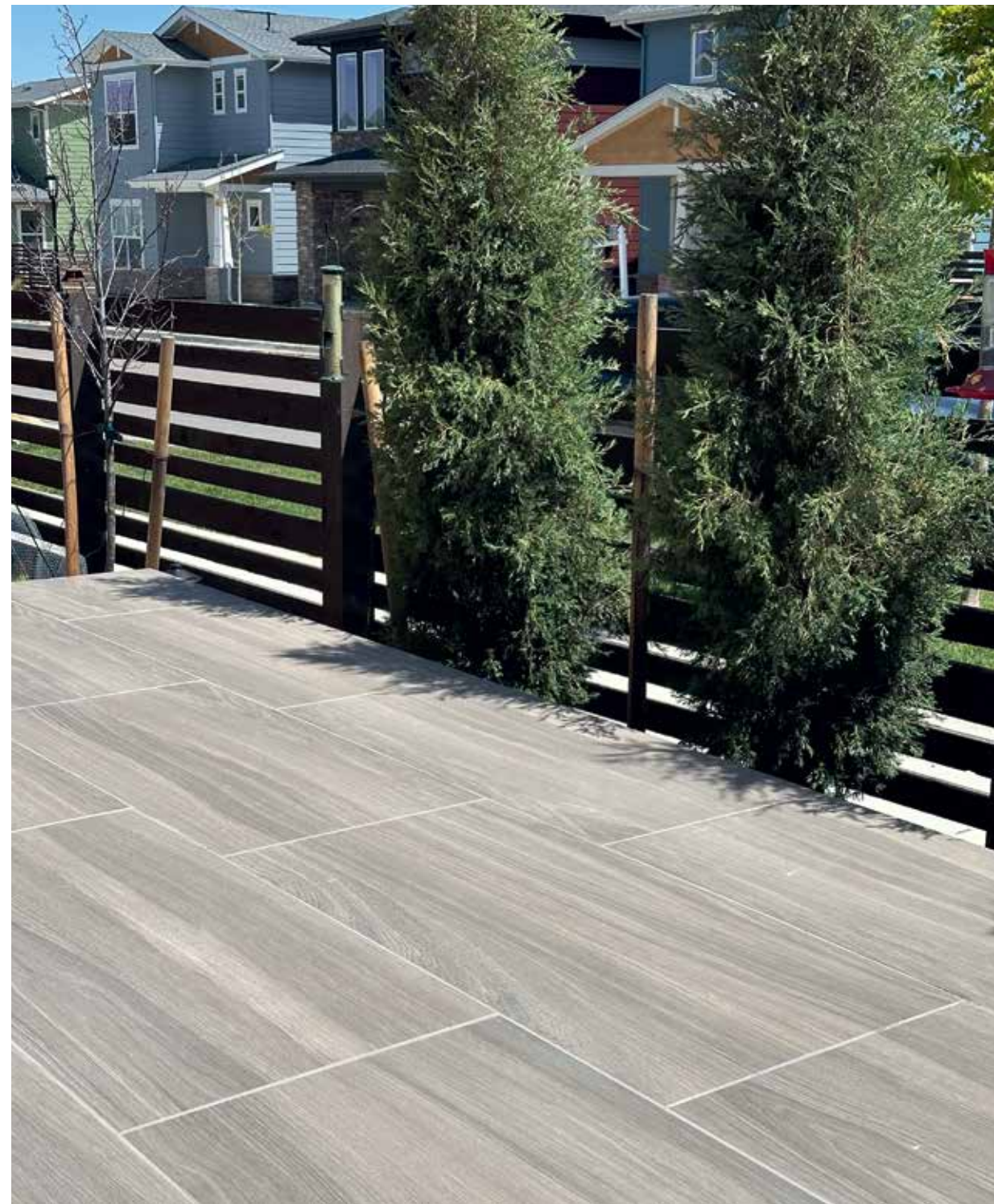
The product's special bas-relief groove structure that imitates wood can lead to small dimensional differences between the "outer staves" and the inner ones. This happens because production calibers may vary noticeably from batch to batch, and unfortunately the effect is mainly visible on the outside slats. For this reason a certain level of aesthetic tolerance is required, but the visual result can be improved by: **using pedestals with crosses/spacers of at least 4 mm (0.15") to keep joint width consistent** (POPA 2.0), using 4 mm crosses also in traditional installations to repeat the same internal spacing across pieces, laying the slabs

from **the same production run** (verified on the back of each slab), and adopting a **basket-weave** ("basket diagram") **laying pattern**.

Regarding elevated outdoor installation, the monolithic self-carrying POPA 2.0 (2 cm) is considered suitable for external use on supports/pedestals. There is no dedicated legislation specifically for raised outdoor porcelain surfaces; the closest comparable standards relate to concrete paving slabs. Against those references, POPA 2.0 performs better in comparative testing, for example resisting more than 1400 kg per slab (test result referenced to EN 1339, KN 14 >). Under the adopted standard, this indicates **suitability for collective and public use without limitations on pedestal/sleeper height**.

However, even though Kronos USA porcelain pavers are highly durable, dense, and rigid, they can still be damaged by poor handling, careless treatment, or accidental impacts. If tools, heavy furniture, or other hard objects are dropped from a significant height, the slabs may chip, scratch, suffer surface damage, crack, or break.

To reduce the risk of breakage and accidents, Shock Control systems or metal trays should be installed wherever hard objects might fall from height, in high-traffic commercial areas, or when deck heights exceed 4". These solutions do not increase the floor's load-bearing capacity; instead, they act as a **safety measure** to prevent sudden collapse and limit accident risk. Shock Control is mainly designed to keep the fragments of a broken paver together and provide temporary support if someone is standing on it at the moment it breaks, while metal trays, double folded, reinforce the underside of pavers and provide additional strength.



**Outdoor porcelain slabs:
slopes, cutting and laying tips,
batch tolerances, raised-floor
performance, and safety systems
to prevent breakage and accidents.**

Accessories

Wind Uplift

When 3/4" Kronos porcelain pavers are installed as single slabs on a pedestal system, they are essentially held in place by gravity (about 35 lb per slab), tight joint spacing, and strong perimeter containment. Because the joints are open, wind can pass above, below, and around the deck surface; this airflow can reduce uplift forces and helps limit paver movement.

Shock Control

SHOCK CONTROL® is a protective membrane for Ceramic Stoneware. It is applied to the back of the slab to increase the mechanical strength of the finished paving. Its structure prevents slabs from collapsing. It can still be walked over even if the slab fails and is easily replaceable. Recommended for use in commercial locations where the paving is raised by more than 4" and there is the risk of hard objects/bodies falling onto the paving.

Metal Tray

These metal trays are constructed from galvanized sheet steel with downturned edges on all four sides, double folded for extra strength the underside of a 3/4" paver. These protection trays increase the height of the tiles by only 1/64". The tray fully supported a person's weight including jumping up and down on the broken tile and no deflection or bending of the perimeter of the steel tray was observed.

We recommend using Shock control 2.0 or Metal Tray when the floor is intended for heavy load traffic, for commercial use or when the pedestal has a height > 4"

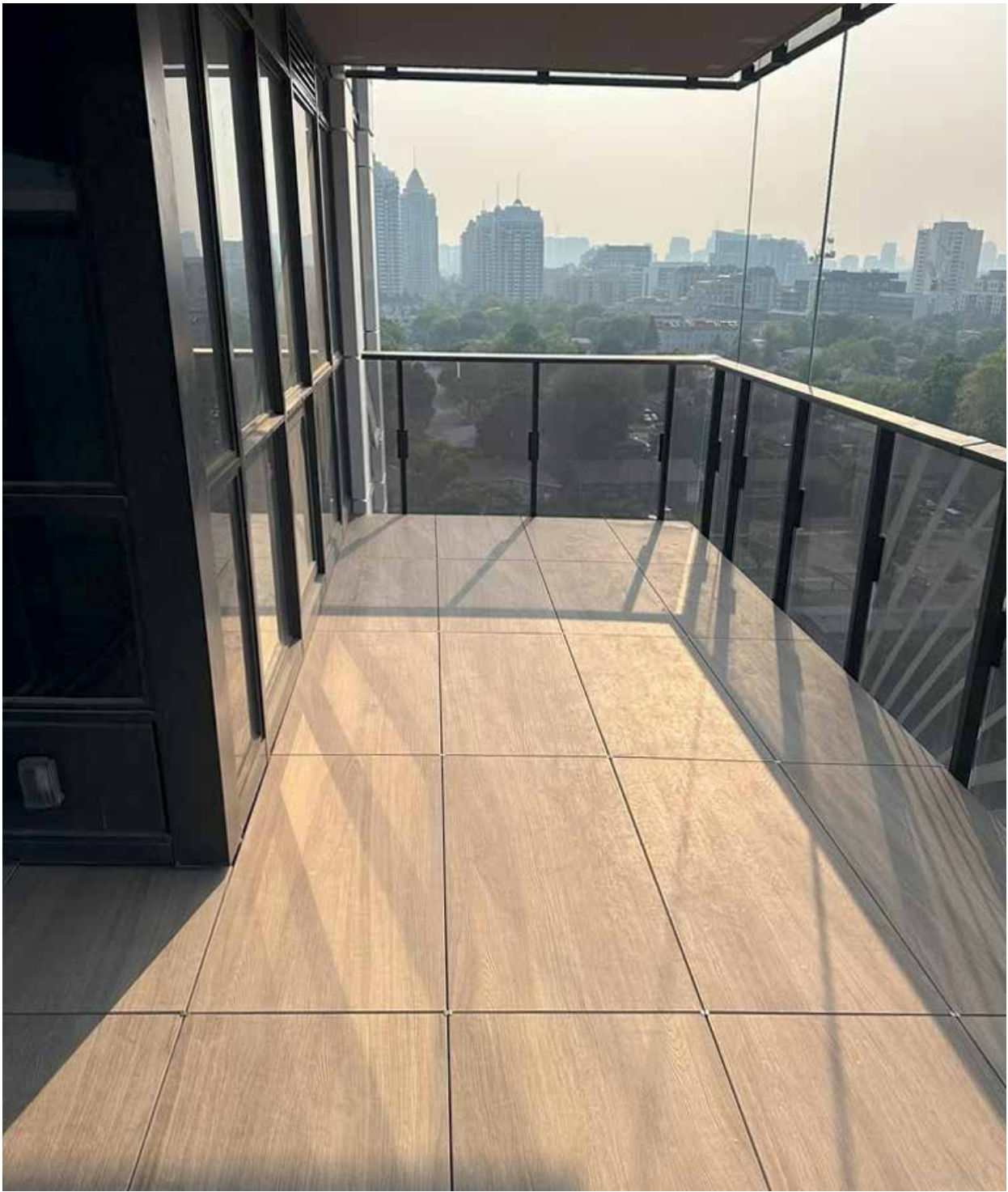
Roof deck

An outdoor roof deck is a deck or patio created on a flat roof or terrace outside a building.

As people become more aware of the importance of contact with nature, roof decks have become increasingly popular in urban areas, where green spaces are often few and far between.

An ideal solution for creating welcoming, functional outdoor spaces, locations for relaxation, wellbeing and socializing that are increasingly central to daily life, in both private and public and commercial contexts.

One of the crucial factors when constructing a roof deck is the choice of pavers, which must combine specific technical characteristics with an attractive, stylish appearance.



High-performance porcelain roof pavers made in the USA, combining durability, safety, sustainability, and design flexibility for rooftop spaces.

WHY CHOOSE POPA FOR A ROOF

Kronos USA porcelain pavers for roof decks are manufactured in the United States and developed to meet the aesthetic preferences, technical expectations, and performance standards of the American market. They are designed to provide a durable, attractive, and practical solution for rooftop environments in both residential and commercial settings.

Kronos USA roof pavers are made of **porcelain stoneware with a thickness of 3/4"**. This high-performance ceramic material combines visual appeal with advanced technical characteristics, offering significant advantages over more traditional natural materials. One of the main strengths of porcelain pavers is their **resistance to weather**. They are able to withstand rain, snow, frost, and intense heat without suffering damage or visible changes in appearance. This makes them especially suitable for roof decks, where surfaces are constantly exposed to the elements throughout the year.

Safety is another major benefit. All Kronos USA pavers feature **excellent anti-slip properties**, a tested and certified characteristic that helps increase safety in wet or damp conditions. This is an essential quality for outdoor areas where secure footing is important for daily use.

Porcelain pavers are also **easy to clean and highly hygienic**. Because they are non-absorbent, routine cleaning is quick, simple, and cost-effective. Their technical properties make them highly resistant to scratches, stains, mould, and bacteria, helping preserve both their appearance and performance over time.

Sustainability is a further advantage. Our outdoor pavers are produced using natural raw materials such as clay in advanced manufacturing plants designed to reduce environmental impact. In addition, porcelain stoneware is an

extremely durable material with a long life cycle, low maintenance requirements, and 100% recyclability. Its performance can also help reduce overheating linked to the urban heat island effect. Kronos USA pavers are available in **a wide range of sizes, colours, and surface looks**, including wood, concrete, and stone effects. This broad selection makes it possible to create roof spaces with the desired style and functionality for any type of project.

For roof decks and patios, Kronos USA recommends a raised, or floating, installation system. This is a dry installation method designed to combine performance, practicality, and long-term reliability. The system includes Kronos USA porcelain pavers, 3/4" thick, modern **adjustable pedestals**, and optional accessories developed to enhance safety and stability. From an aesthetic perspective, raised installation creates a clean, even surface with no visible drainage components such as grates or drainpipes. The small gaps between slabs allow water to drain quickly and efficiently, making the surface easier to maintain. **The system is frost-proof and helps absorb thermal expansion from the concrete substrate**, reducing the risk of movement or subsidence often associated with traditional outdoor flooring.

Another important advantage is the **reduced structural load on rooftops and balconies**, since no additional layer of concrete or adhesive is required. The cavity between the slab and the substrate also contributes to improved thermal and acoustic insulation. In addition, concealed pipework can be inspected easily, installation is faster, and all components are recyclable. Overall, raised paving offers an **efficient, durable, and cost-effective solution, combining easy installation, low maintenance, and long-lasting performance.**

CLEANING ADVICE

General dirt and debris

When trying to remove dirt and detritus, the recommended way is by regular brushing. If by any chance the color of the paving becomes masked, we suggest scrubbing it with warm water and an acid-free detergent either by hand or by/with a domestic cleaner.

Weed control

There is no assurance that the Gres Porcelain Paver surface will be weed-free. However, it is very rare for the weeds to grow through the Gres Porcelain Paver edge joints. Weeds can easily be pulled off the joints of the paving by hand. By removing the weed from the joints in the paving, some of the sand may be removed, and should be replaced as soon as the cleaning process is finished. Regular trafficking by wheels or by foot can reduce the ability of the weeds to take over the area. But in the less visited areas there are a few techniques to limit the possibility for them to grow:

Cutting the grass regularly disturbs emerging weeds and gets rid of them before they can establish themselves. Using herbicides can be very effective at killing existing weeds and preventing them from growing for a period of weeks or even months. Using products that have been distinctively developed for use with paving or in gardens, since general herbicides may kill everything.

Power washing

Using power washers in a correct way can help to preserve the paving and keep it in good condition, however it is suggested to use a

spraying movement when holding the power lance at a narrow angle, not directing the power lance directly on to the joints.

Acid washing

Stains that cannot be removed with the techniques stated above may require the use of specific acid cleaning treatments to remove them. However chemical cleaners must be used with great care, taking into consideration the percentage of acid concentration in the cleaners.

Seasonal maintenace

Based on the seasonal changes we have created a guide to help you maintain the porcelain paver slabs according to the different seasons. In spring, after the winter months it is recommended to give the slabs a thorough clean after the winter months and ensure that all of the joints have remained intact.

During the summer, as the use of the paved area may increase in those months, regular checks are advisable. In the autumn months, trees and shrubbery will start to lose their leaves, it is best to keep the paved area clear from leaves, fruit and berries. During winter the outdoor paved will receive very minimal use, it is best to remove any deposit such as snow and ice, as they can be dangerous when walking. It is very common for homeowners to use de-icing salts to facilitate their access to their property. As an alternative, other de-icing materials may be used, such as purer marine salt, it is non-toxic but corrosive to steel and aluminum and can be harmful to vegetation, leaving a white residue on the pavement.



Extraordinary maintenance

Whilst porcelain pavers are exceptionally resistant to staining and generally need just a wash with water or with a neutral detergent diluted with water, more stubborn stains may require some additional effort to be removed. Try to avoid the use of abrasive products such as scouring pads, steel wool pads or products containing strong acids or alkalis. With difficult stains and dirt, use a mild alkaline detergent, rinsing well with water after cleaning.

For large surfaces, we recommend cleaning with commercial washer-dryer machines. Please bear in mind that some types of dirt (sand etc.) can have an abrasive effect on the surface of the pavers that is exacerbated with foot traffic, so such residues should be regularly removed by sweeping, blowing or vacuuming.

For particularly tough stains that resist removal with simple water/detergent cleaning procedures, we recommend using specialized cleaning products such as Fila Cleaner or FilaPS87. For rust stains, Fila also has a more intense acid based cleaning product called Deterdek which contains high concentrations of surfactants.

**Practical guidance for cleaning,
protecting and maintaining
porcelain pavers year-round,
helping prevent dirt, weeds and
stubborn stains.**

TECHNICAL CHARACTERISTICS

STANDARDS		CHARACTERISTICS OR PROPERTIES	COMPLIANCE WITH STANDARDS UNI EN 14411 G ASTM	KUSA DECLARED VALUE
ISO - 10545-3	ASTM - C 373-88	Water absorption	$E \leq 0.5 \%$	Meeting the criteria of the American national standard PTCA
ISO - 10545-9	ASTM - C 484	Thermal shock resistance	Requested	Complies with standard
ISO - 10545-12	ASTM - C 1026	Frost resistance	Requested	Complies with standard
ISO - 10545-6	ASTM - C 1243-93	Abrasive wear	$<175 \text{ mm}^2$	Complies with standard
ISO - 10545-2	ASTM - C 485	Straightness	$\pm 0.75 \%$ ($\pm 1.8 \text{ mm}$)	Complies with standard
	ISO - 10545-2	Straightness	$\pm 0.5 \%$ ($\pm 1.5 \text{ mm}$)	Complies with standard
	ASTM - C 499	Thickness	$\pm 1.02 \text{ mm}$	Complies with standard
	ISO - 10545-2	Thickness	$\pm 0.5 \%$ ($\pm 0.5 \text{ mm}$)	Complies with standard
	ASTM - C 499	Length and width	$\pm 0.5 \%$ ($\pm 2.0 \text{ mm}$)	Complies with standard
	ISO - 10545-2	Length and width	$\pm 0.6 \%$ ($\pm 2.0 \text{ mm}$)	Complies with standard
ISO - 10545-4	ASTM - C 648	Bending strength in N (thickness $\geq 7.5 \text{ mm}$)	$\geq 250 \text{ LBF Average}$	$\geq 2500 \text{ LBF}$
	ISO - 10545-4		$\geq 1300 \text{ Newton}$	$> 7000 \text{ psi}$
ASTM - C 650		Chemical resistance	As reported	Resistant
ISO - 10545-14		Resistance to stain	-	5
ISO - 10545-13		Chemical resistance	UB min.	UA ULA UHA
ISO - 10545-8		Coefficient of linear thermal-expansion	-	$\alpha=6.3 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$
ISO - 10545-5		Impact resistance	-	> 0.55
EN 12825		Static load	-	Centre 1700 LBF Centre point of sides 1200 LBF Diagonal 1500 LBF
		Dymanic laod capacity - hand object impact test	-	Test not passed
		Dymanic laod capacity - soft object impact test	-	Test passed
EN 1339		Bendind strength - breaking force in N	Kn 14.38	classe 14
ENV 12633		Slip resistance	$> / = \text{CL1}$	CL 2
DIN 51130		Slip resistance	-	R11
DIN 51097		Slip resistance	-	A + B + C min.
DM 236/89	B.C.R.A.	Slip resistance	-	> 0.40
ASTM 1028-07 BOT 3000	Static coefficient of friction	Slip resistance	-	$> 0.60 \text{ WET} > 0.60 \text{ DRY}$
ANSIA 137.1 2012 sectio n 9.6	Dynamic coefficient of friction			≥ 0.42
EN 13501-1		Fire resistance	-	A1 - A1 FL
TAS 108	Florida building code - wind up lift	3/4" thick 24"x24" porcelain installed on fixed height pedestals and 45° wind angle was blow of at	-	130 mph with no parapet 150 mpt with 12" high parapet

To put this into context, the Saffir-Simpson Hurricane Wind Scale which is a 1 to 5 rating based on a hurricane's sustained wind speed, defines wind speeds over 74 mph to be hurricane velocity where: Category 1 (74-95 mph) "Very dangeorus winds will produce some damage"; Category 2 (96-110 mph) "Extremely dangerous winds will cause extensive damage"; Category 3 (111-129 mph) "Devastating damage will occur". In the wester North Pacific, the term "super typhoon" is used for tropical cyclones with sustained winds exceeding 150 mph.

PACKAGING RECTIFIED

sizes	thickness	unit/box	sqft/box	lbs/box	boxes/plt	sqft/plt	lbs/mq	lbs/sqft	lbs/plt	pallet size
24"x48"	3/4"	2	15,50	146,00	16	248,00	101,00	9,42	2.373,00	29"x51"
12"x48"	3/4"	4	15,50	146,31	16	248,00	102,00	9,44	2.378,00	29"x51"



