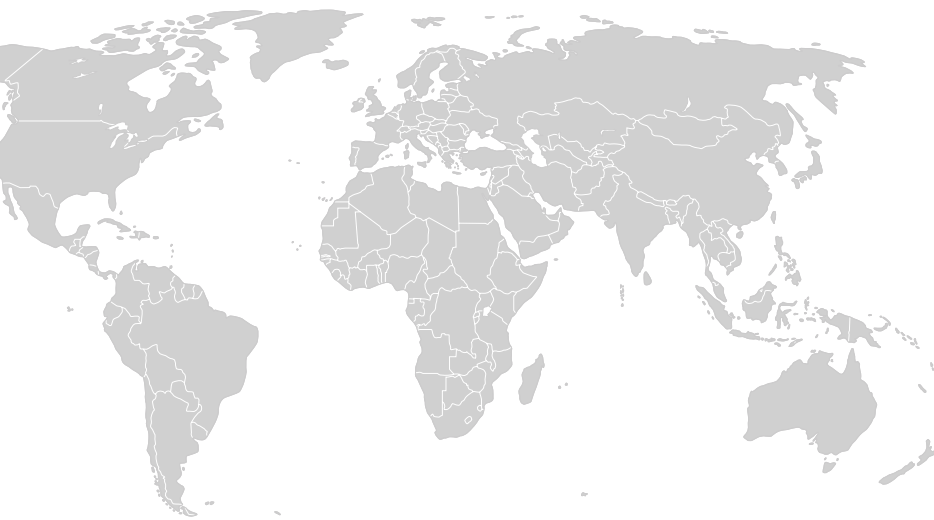


**NESITE®**



**Twin**  
FLOOR





## Nesite raised floor

The raised access floor brand Nesite has been on the market for more than 40 years and it stands out in the raised floor field for its high quality and wide range of products.

By realizing more than 10 million m<sup>2</sup> of raised access floor all over the world, the company has nowadays such a fund of experience and knowledge to meet all customers' needs thanks to a technologically efficient and esthetically satisfactory system.



## Twin Floor

As part of a continuous technological research related to the implementation of the new architectural requirements and to the greater sensitivity of the market towards the outdoor features, Nesite has designed a new system by combining design and aesthetic novelty with the best technical features of the current market.

More and more attention is paid to the construction details that can enhance buildings by improving their finishes. But today it is necessary to improve also the technical characteristics and energy saving besides the housing comfort. “**Twin Floor**”, the raised floor for outside, was born to improve the building’s thermal and acoustic classification as well as to contain the maintenance costs of the property.

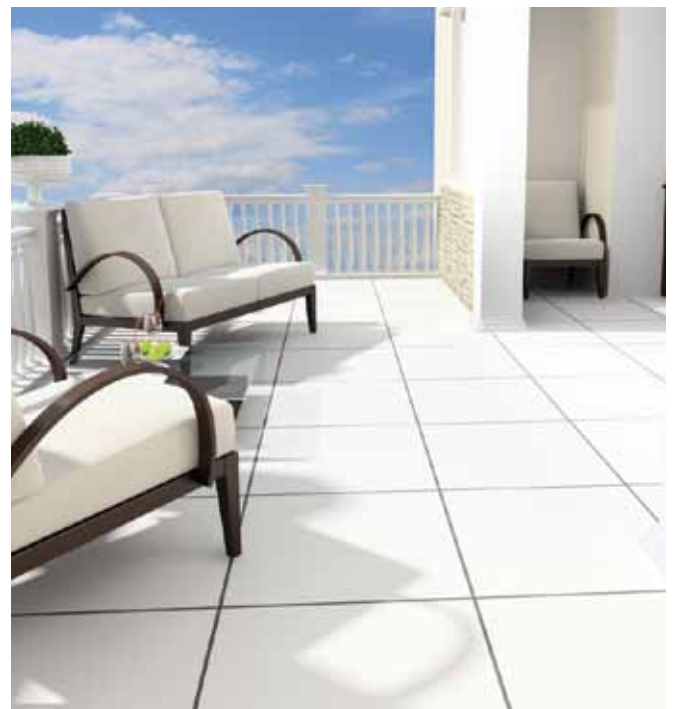
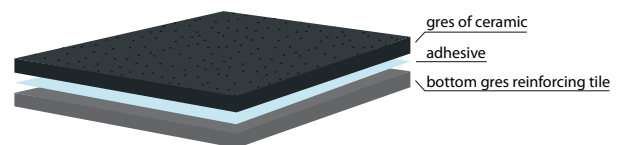
### Advantages

With **Twin Floor** you can:

- 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 description

The panel is composed of a non-slip gres ceramic top tile and a bottom gres tile core with reinforcement function. The two layers form a 600x600mm panel with total thickness from 22 mm to 26 mm, and are coupled together by using special adhesives chosen and selected for their strength, elasticity and durability over time and weathering.



Two types of TWIN FLOOR are available:

**TWIN FLOOR L** approximately 22 mm thick

**TWIN FLOOR S** approximately 26 mm thick

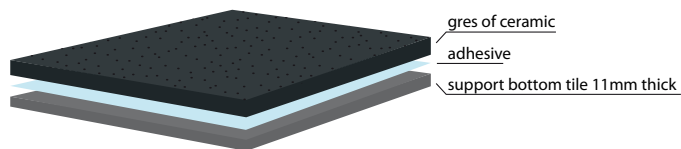
## Twin Floor L

TWIN FLOOR panel in the **L** version is characterized by the coupling of the gres top finish by a specific adhesive with a reinforcing 11 mm thick layer made of an eco-friendly homogeneous structural core, which is sintered at very high temperatures. This support bottom tile ensures the best stability even against damp, water and temperature changes. The panel will thus have a total thickness of 22 mm. 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 penthouse, private terraces and gazebos.

It can be installed also directly on gravel or grass.



### Technical data of Twin Floor L system

Fire reaction class	1
Electrical resistance	$\leq 2 \times 10^9$ ohm
Acoustic insulation	$\geq 32$ db
Density	2200Kg./m <sup>3</sup>
Dimensional change (after 24 hours immersion in water)	0%
Weight of panel 60x60	$\pm 16$ Kg
Weight of floor per m <sup>2</sup>	$\pm 45$ Kg
Specific heat	452,30 $\pm$ 67,73 J/Kg°K
Thermal conductivity $\lambda^*$	0,3621 W/mK
Thermal resistance R	0,0641 m <sup>2</sup> K/W
Dynamic stiffness	379,34 MN/m <sup>3</sup>
Concentrated load	250 Kg*
Distributed load	1.000 Kg./m <sup>2</sup> *

Sound absorption (average value for normal incidence between 50 and 6300 Hz)	$\lambda$ 0,020
Acoustic impedance Z (average value real part between 50 and 6300 Hz)	24,6
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)	0,90
Frost resistance	Excellent
Thermal shock resistance	Excellent

\*empirical tests in the factory



## Twin Floor S

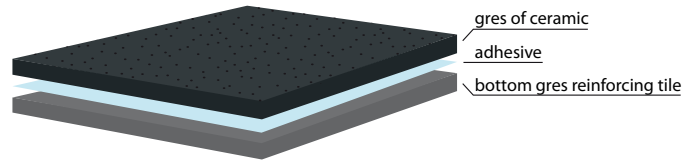
TWIN FLOOR panel in the **S** version is characterized by the coupling of the gres or stone top finish by a specific adhesive with a reinforcing 15 mm thick layer made of a homogeneous and fibre-reinforced structural core, whose density is 2.200 Kg/m<sup>3</sup>.

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.

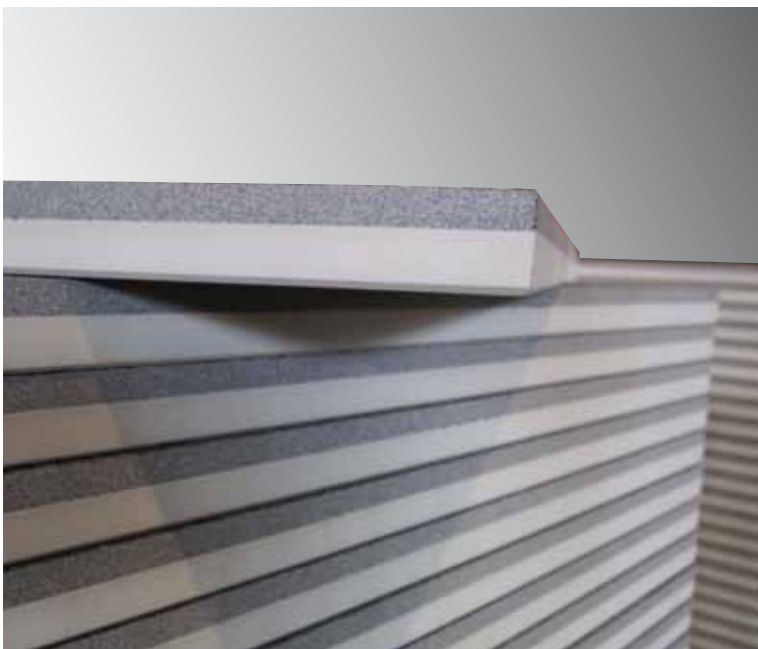
The panel will thus have a total thickness of 26 mm. It can be made without bevel or with a slight chamfer.

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.



It is also available the indoor version with ABS edgetrim 0.6 mm thick.



### Technical data of Twin Floor S system

Fire reaction class	1	Concentrated load ( <b>indoor version</b> )	650 Kg*
Electrical resistance	≤ 2x10 <sup>9</sup> ohm	Distributed load	
Acoustic insulation	≥ 38 db	<b>(indoor version according to the substructure)</b>	1.500/2.500 kg./m <sup>2</sup> *
Density	2200Kg./m <sup>3</sup>	Sound absorption	
Dimensional change		(val. medio incidenza normale tra 50 e 6300 Hz)	λ 0,025
(after 24 hours immersion in water)	0%	Acoustic impedance Z (average value	
Weight of panel 60x60	± 20,5 Kg	real part between 50 and 6300 Hz)	27,6
Weight of floor per m <sup>2</sup>	± 58 Kg	Acoustic admittance A	
Specific heat	455,30 ± 67,73 J/Kg°K	(average value real part between 50 and 6300 Hz)	0,01
Thermal conductivity λ*	0,3741 W/mK	Acoustic reflection	
Thermal resistance R	0,0668 m <sup>2</sup> K/W	(average value real part between 50 and 6300 Hz)	0,99
Dynamic stiffness	379,34 MN/m <sup>3</sup>	Frost resistance	Excellent
Concentrated load ( <b>outdoor version</b> )	550 Kg*	Thermal shock resistance	Excellent
Distributed load ( <b>outdoor version</b> )	1.500 kg./m <sup>2</sup> *		

\*empirical tests in the factory

## Outdoor substructure

The substructure 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.



### Available heights for outdoor substructure

Non-adjustable supports H25 mm.

Non-adjustable supports H35 mm.

Adjustable supports H 35-50 mm.

Adjustable supports H 50-70 mm.

Adjustable supports H 65-100 mm.

Adjustable supports H 95-130 mm.

Adjustable supports H 125-160 mm.

Adjustable supports H 155-190 mm.

Adjustable supports H 185-220 mm.

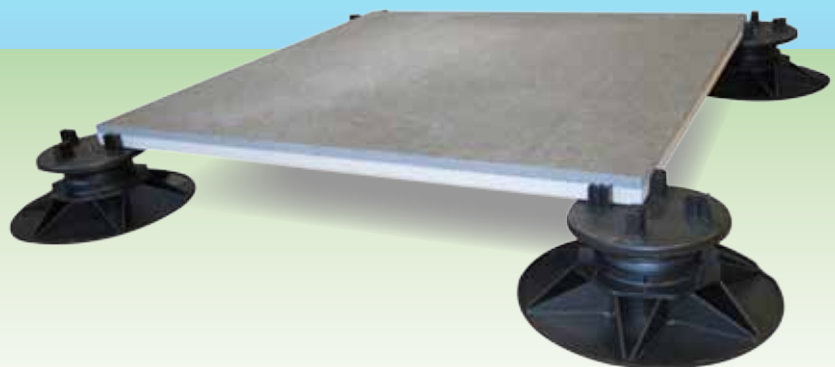
Adjustable supports H 115-220 mm.

Adjustable supports H 215-320 mm.

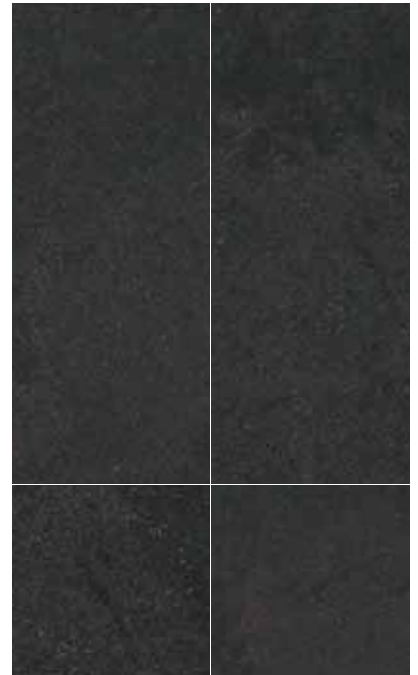
Adjustable supports H 315-420 mm.

Adjustable supports H 415-520 mm.

Adjustable supports H 515-620 mm.



## Some example of **colours** and **finishes**



The Twin Floor can be made with any type of porcelain gres.

It is possible to realize non-standard formats.

The top finish can be natural or polished, "bocciardato", "cordato" or "lappato".

Our Technical Service can, where necessary, assist the designer with advice on regulatory, functional and structural aspects of the raised floor.



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