raised access floor

catalogue

n e s i t e

(r)evolution

It was born as a technical system for computer rooms, it has become a flexible system for office building, museums, showroom, convention center, renovation of historical buildings.
It was born as a floor with few coverings trapped in 60x60 cm, it has become a floor with a wide range of finishing and possibility of custom sizes.
It is incredible the evolution of the raised floor during last few years.
Thanks to challenging customers and important architects, we had the chance to design a new concept of space: technological, flexible, customizabile and sustainable. Made of high-quality materials, styled with refined beauty.
Welcome to our (r)evolution.

sanlorenzo yachts

location: Ameglia
design: Lissoni Casal Ribeiro Studio

Immersed in the greenery of the Montemarcello-Magra natural park, the first volume completed by the Lissoni Casal Ribeiro team rises in Ameglia. It is the executive building that houses the workspaces of the Sanlorenzo Yachts design, marketing and commercial division, as well as a storage area, adjacent to the industrial buildings.
The layout, precise and essential, offers an interpretation of the open space concept, with common areas in direct continuity with the individual work islands. The private offices are separated from it by large completely transparent glass partitions defined at the top and bottom by slender anthracite profiles.
The systems were deliberately integrated into the ceiling and the raised floor created by Nesite, which supplied over 1.050 sqm of calcium sulphate panels finished with a custom-designed parquet. This solution is made of bleached oak, consisting of two 30x60 cm bands made up of 30x5 cm strips, protected with a special ecological oil varnish which enhaces the naturalness of the wood.

photography © Thomas Pagani

n e s i t e

covering: custom bleached oak
panel core: calcium sulphate
dimensions: 600x600 mm

covering: custom bleached oak
panel core: calcium sulphate
dimensions: 600x600 mm

zamasport

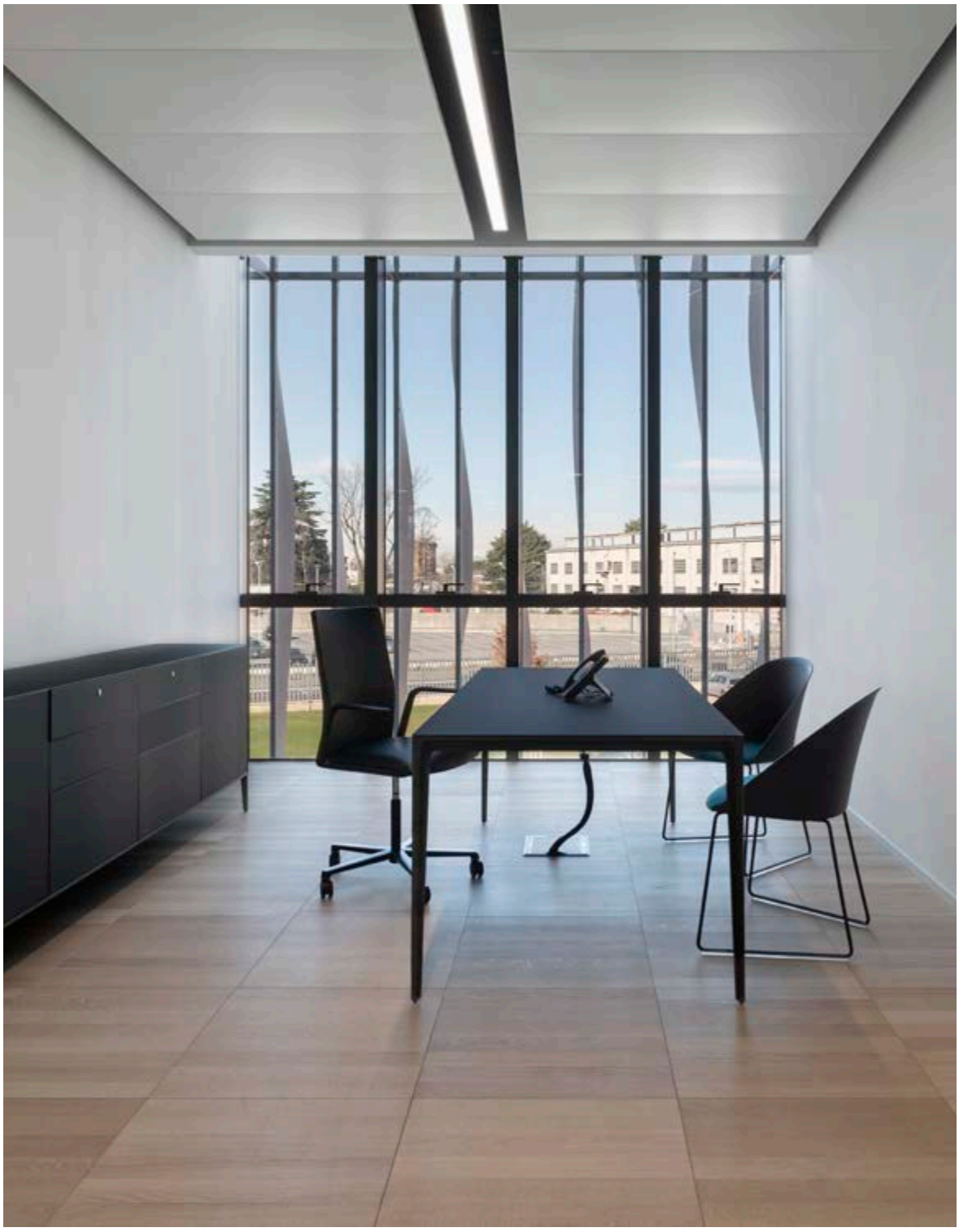
location: Novara
design: Frigerio Design Group

Evocative and sustainable, the new Zamasport headquarters is a manifesto of the Slow Architecture concept promoted by Frigerio Design Group, where "slow" does not mean doing things slowly, but with "accuracy". The building, which occupies an area of 3.700 sqm, integrates paths and spaces designed to improve the quality of the working life of the staff, whose wellbeing is pursued in every aspect of the design.
Zamasport headquarters is a highly energy-efficient building standard certified NZEB, which uses renewable sources for more than half of its total energy requirements. In addition, the use of natural light, the presence of greenery, acoustic comfort and the definition of internal microclimates combine to give shape to spaces that are not only functional and eco-sustainable, but also pleasant and welcoming, in the name of total comfort.
A raised floor with a parquet finish has been installed in the Zamasport headquarters, a prestigious solution which, as well as contributing to LEED credits, fits in perfectly with the concept of well-being, material ethics and respect for the environment.

photography © Mario Frusca

n e s i t e

covering: oak
panel core: calcium sulphate
dimensions: 600x600 mm



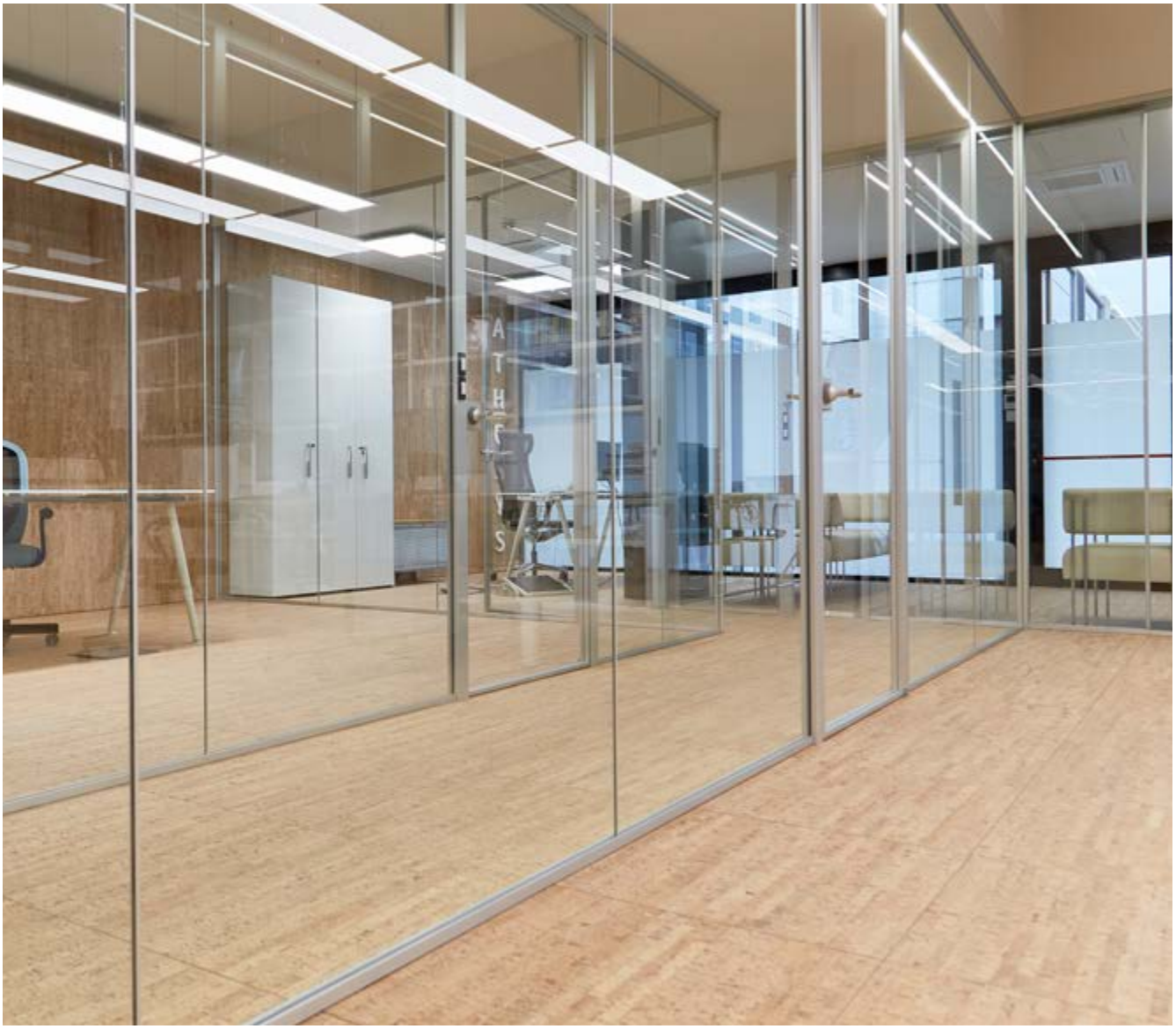
covering: oak
panel core: calcium sulphate
dimensions: 600x600 mm

n e s i t e

athesys

location: Padua
design: Nesite Interior

The wellbeing of people is undoubtedly one of the pillars in design of modern offices and, for this reason, the renovation of Athesys headquarters starts first of all from several essential requirements such as the healthiness and sustainability of the materials.
The request was immediately reflected in the natural cork finishing proposed by Nesite Interior, chosen by Athesys for both the floor and walls for its extraordinary characteristics.
Cork, in fact, has intrinsic properties that improve acoustics, walking comfort, preserves air quality, is antistatic, non-toxic and hypoallergenic, resistant to mould and bacteria, as well as excellent thermal insulation, while ensuring breathability. The raised floor chosen, moreover, has been combined to FSC® certified chipboard core panels, coming from responsibly managed forests.
The set-up in the Athesys headquarters ended with the installation of glass partitions, a solution able to give maximum visual lightness, whose essentiality finely completes the space, highlighting its colours. The light tones of Braga finishing, on the other hand, lend the space a particularly cosy feel.



glass partition
cork raised floor

wall and floor natural cork covering

n e s i t e

ef solare

location: Trento
design: Vespier Architects

From flooring to partitions and furnishing accessories, Nesite's interior division has collaborated with Arch. Danilo Vespier for the new Ef Solare headquarters project in Trento.
The renovation involved the creation of private offices, large open work islands, meeting rooms and collective recreation areas, where Arch. Danilo Vespier preferred entirely made-to-measure solutions to create a representative space, designed and built entirely around the Client's needs. Thus KAI, the bespoke office desk, and the open space workstations were designed, prototyped and built thanks to the collaboration of Nesite Interior which, acting as general contractor, also took care of the stationary furniture, cabinets, partitions, wooden partitions and metal ceilings.
The raised floor, instead, has been proposed in a solution close to the materic and chromatic context, with a finish in bleached oak and ecological varnish treatment. The bleaching process has also softened the impact of natural shades, giving brightness and an increase in the perception of spaces.
Focus to the environment was the key driver for the EF Solare headquarters for both Danilo Vespier and Nesite Interior, who worked in direct contact to deliver a space where the theme of energy saving blends with healthy, low-impact materials and a functional layout organised, to ensure maximum benefit for those who live in it.

photography © Matteo Sandi

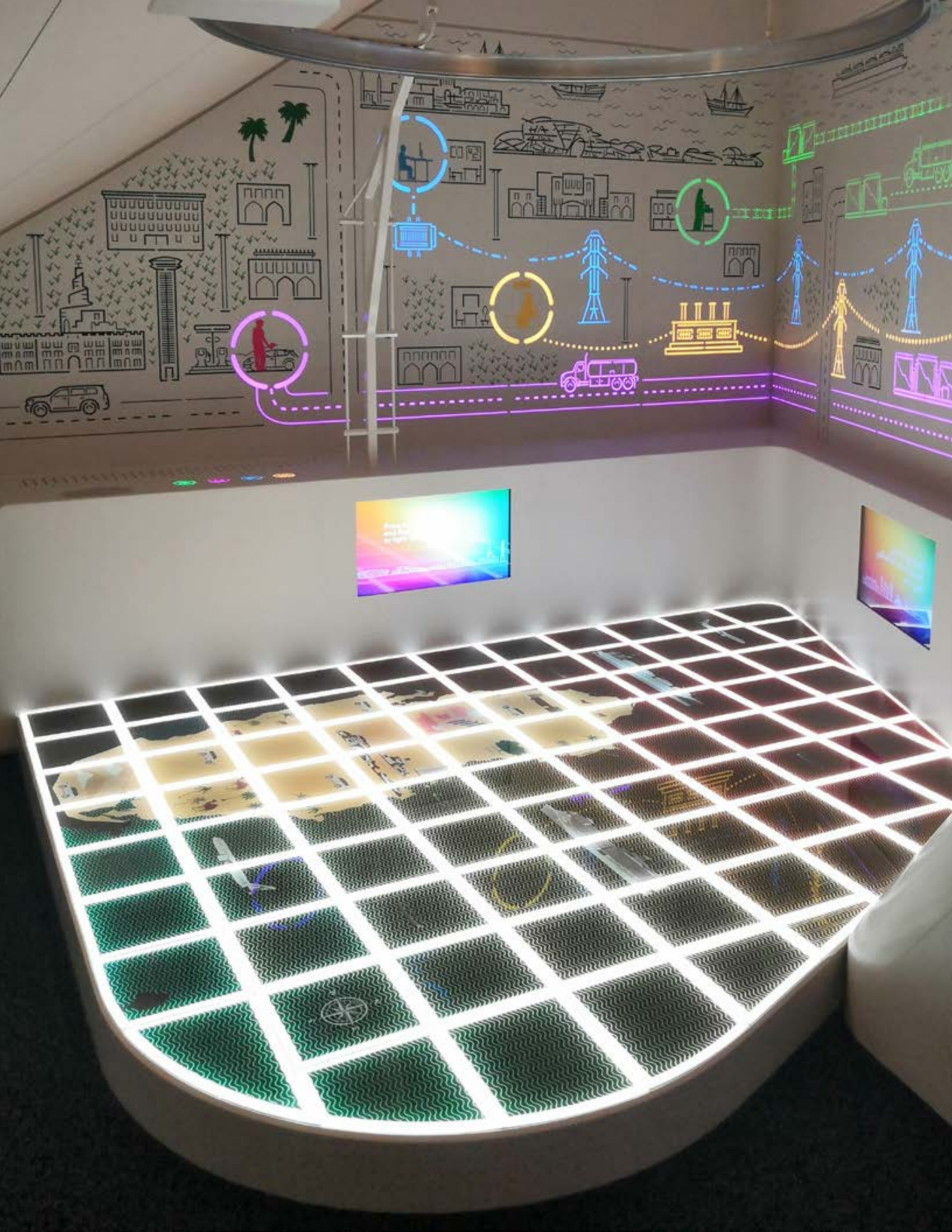
KAI desk designed by Arch. Danilo Vespier

detail of glass partition integrated into the ceiling

nmoq-family exhibit

location: Qatar
design: Opera Amsterdam

An innovative and immersive guardian of culture, the National Museum of Qatar designed by Ateliers Jean Nouvel is one of the most complex buildings ever built, an emblem of the perfect collaboration between architecture and structural engineering.
The museum houses a one and a half kilometre long exhibition path, where the permanent exhibition unfolds in a sequence of eleven interconnected galleries. Alongside the meanders of the permanent exhibition, six areas have been created where history comes to life in an exciting, innovative and immersive space. A mesmerising yet educational place, where each exhibition has its own storyline, distinct style and unique interactive entertainment.
It is in this context that our raised floor becomes an interactive twister-style play platform, where little ones answer questions by placing body parts on the tiles, which light up and change colour. The island is made entirely of our JUNO led panels and responds to touch inputs through the integration of special software.



sabiana

location: Milan
design: Sabiana

Sabiana, the Italian excellence in the air conditioning sector, has inaugurated an exhibition area of around 1.300 sqm in the historical establishment located in Corbetta. The showroom opens after an accurate restyling and represents a real full-immersion in the innovative world of Sabiana. The space houses both an exhibition area and a learning and training space.
In the Sabiana showroom, 4.0 resin raised floor was installed, the solution designed by Nesite which allows the customization of various aspects such as color or opacity.
In the specific case, a white (RAL 9003) 4.0 raised floor was created in the glossy version, in order to design an emblematic space and, at the same time, a neutral one, easily adaptable to the installation needs. This choice also allows the creation of a luminous space, able to stand out and enhance the elements exhibited.

photography © Diana Lapin

arbonia
SABIANA
IL CLIMA AMICO
KERMI
VASCO
A company of Arbonia Group
ARBONIA

covering: white (RAL 9003) resin
panel core: calcium sulphate
dimensions: 600x600 mm

covering: white (RAL 9003) resin
panel core: calcium sulphate
dimensions: 600x600 mm

thélios

location: Longarone
design: Designgroup Architetti Associati Studio

Launched in 2017, Thélios is a joint venture combining LVMH and Marcolin's expertise, as two groups brought together by their same vision of the eyewear future.
The new headquarters has an innovative aesthetic made of panels in weathering steel and multiple windows. With over 2.300 solar panels installed on the roof, the building is also a sustainable and eco-responsible structure.
Nesite realized the raised floor by supplying a solution made of calcium sulphate panels in various formats with ceramic top covering. The peculiarity of the project lies in the installation, in certain areas, of a customized solution created with precise aesthetic characteristics according to the design drawing. Every single panel of the showroom's corridor was made combining various ceramic strips of different sizes and colors, in order to obtain a refined chromatic effect, while maintaining the total accessibility of the raised floor.

photography © Matteo Sandi


THÊLIOS

n e s i t e

covering: ceramic
panel core: calcium sulphate
dimensions: 600x600 mm

covering: customized solution with ceramic strips
panel core: calcium sulphate
dimensions: special size

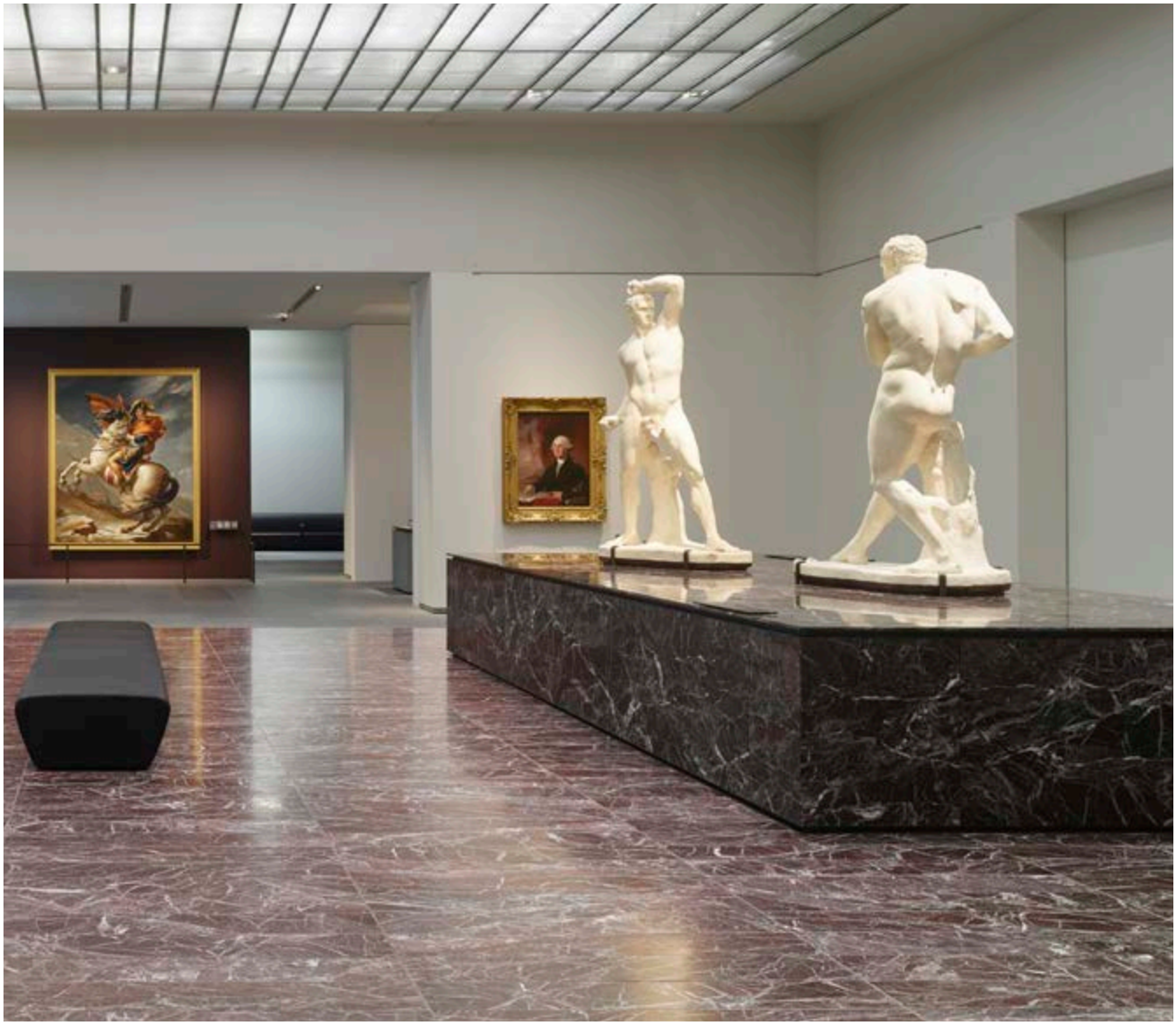
louvre abu dhabi

location: Abu Dhabi
design: Ateliers Jean Nouvel

Designed by Jean Nouvel, Pritzker prize winner, the Louvre of Abu Dhabi is one of the world's most ambitious cultural projects. The prestigious museum is located in Saadiyat Island's Cultural District, which will be entirely dedicated to art and culture.
The Louvre of Abu Dhabi is a project of enormous complexity, composed of 55 individual buildings inspired by the Medina and the Arab settlements and surmounted by the characteristic silver dome.
Nesite contributed to the completion of the project by installing a highly customized raised access floor, certified as anti–seismic. The raised floor installed inside the permanent galleries is composed of calcium sulphate panels with top coverings in different types of natural stone. Each panel has been edge - trimmed with a special bronze frame and allows the fully access to the underfloor plenum.
The rest of the museum floor was realized with Tetris floor, the raised floor system with high density calcium sulphate core that allows partial accessibility, with top covering in resin and natural stones.

photography © Roland Halbe

covering: omani stone
panel core: calcium sulphate
dimensions: special size



covering: red levanto
panel core: calcium sulphate
dimensions: special size

maxxi

location: Rome
design: Arch. Silvia La Pergola

The MAXXI Foundation manages the homonymous museum, the first national institution dedicated to contemporary art.
Designed as a large container of culture where exhibitions and events of high artistic and innovative value are planned, the museum complex dedicated to contemporary arts is located in the area of the ex camp Montello, in the Flaminio district of Rome. Here, in 2010, the great architectural building designed by Zaha Hadid was inaugurated, characterized by innovative and spectacular forms.
Nesite has been involved in the renovation works of the Extra MAXXI hall, supplying and installing about 500 square meters of raised floor.
For this project 4.0 floor with opaque finish was chosen, the modern and customizable solution with pigmented resin finishing.

photography © Francesca Maiolino

covering: resin grey whale
panel core: calcium sulphate
dimensions: 600x600 mm

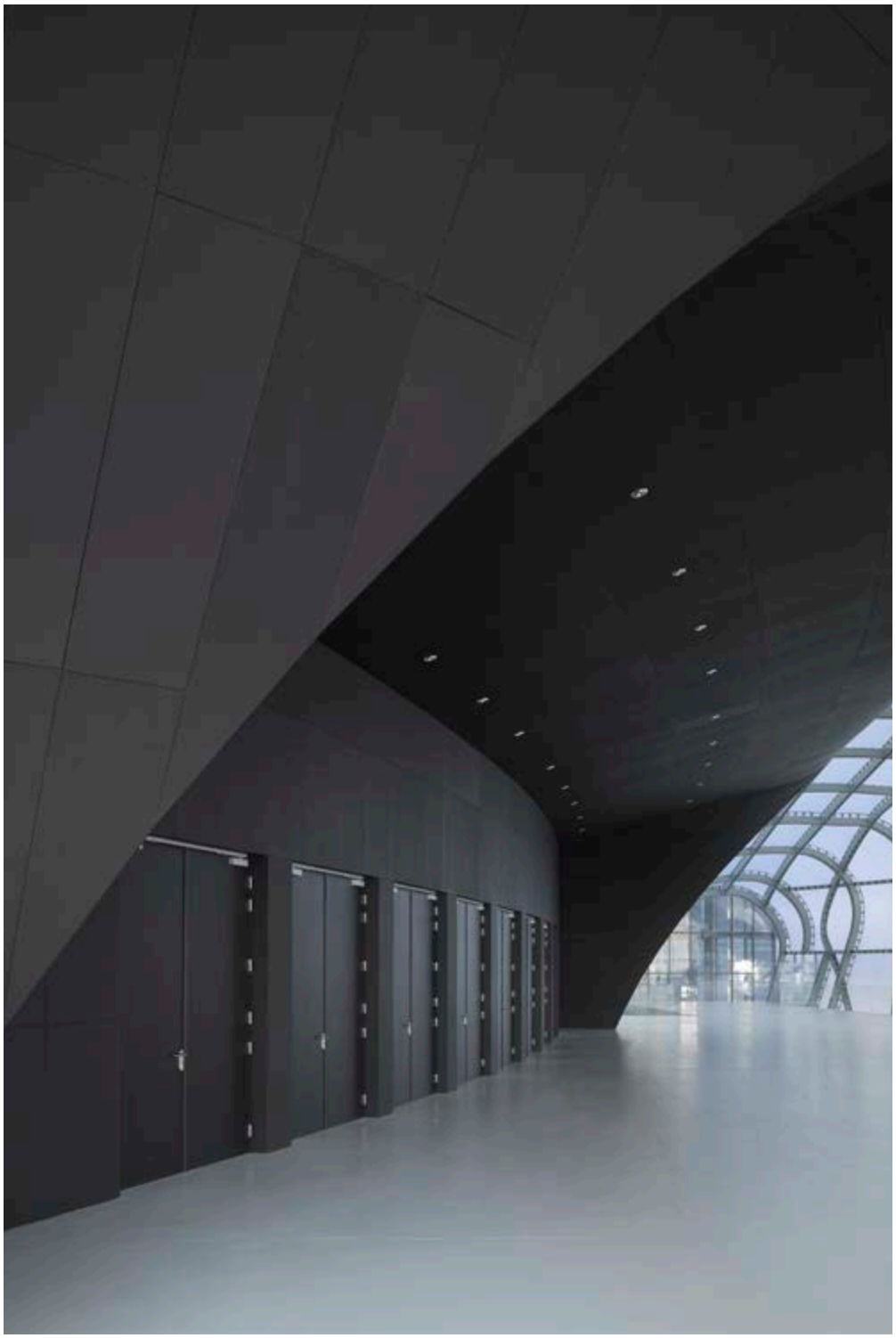
covering: resin grey whale
panel core: calcium sulphate
dimensions: 600x600 mm

the cloud

location: Rome
design: Massimiliano Fuksas Architecture Studio

"The Cloud" is definetely the distinctive architectural element of the new Convention Center Eur S.p.A in Rome. It's a project of extraordinary artistic value, characterized by innovative logistic solutions and choice of technologically advanced materials. The steel structure, wich offers a spectacular visual effect, is covered by 15.000 square meters of transparent resin.
The floor supplied inside The Cloud is Tetris, our tongue and groove hollow floor system fast for installation and with excellent performance characteristics.
The panels have been equipped with a special 10 mm gasket compressed up to 5 mm, designed to contain any expansion, in order to guarantee the perfect stability of the floor and the resin covering.

Tetris floor system
covering: resin
panel core: calcium sulphate



Tetris floor system
covering: resin
panel core: calcium sulphate

nesite

banco popular

location: Madrid
design: Arquitectos Ayala Studio

Designed by Arquitectos Ayala, the new headquarters of the Banco Popular in Madrid (Abelias Building) was conceived following the WELL protocol, the standard that combines efficiency and wellness. The building occupies an area of about 120.000 sqm dedicated to offices and services and has obtained the LEED GOLD certification.
The Banco Popular paving works involved the supply of various solutions, from the Tetris floor system to the calcium sulphate panels, finished with natural stones, vinyl and loose - lay top coverings.
For the project, moreover, Nesite has supplied about 5.000 sqm of raised floor composed of panels in special format (650x650 mm, 1000x650mm, 1100x650 mm and 1300x650 mm) with berrocal white marble and natural quartzite coverings.

photography © Lluís Casals

covering: natural stone
panel core: calcium sulphate
dimensions: special size

covering: natural stone
panel core: calcium sulphate
dimensions: special size

st. michel church

location: Milan
design: Arch. Luigi Corti

St. Michel Church in Milan represents a work of conservative renovation by Arch. Luigi Corti, in which the Diffuse radiant system has been fundamental in the renovation of the building, revealing itself as a non-invasive technical solution able to fully satisfy the design requirements.
In this project, Diffuse radiant system installation has allowed:
- the preservation of the original flooring, which has remained intact in its entirety.
- use of the raised floor advantages (versatility, inspectability, easy maintenance, etc.) thanks to the dry laying.
- functional and energetic improvement of the building, thanks to the high efficiency of the radiant panels.
The project was completed with the realization of a design in the liturgical area, in order to reproduce the original floor's pattern.

photography © Diana Lapin

n e s i t e

DIFFUSE radiant system
covering: ceramic
dimensions: 600x600 mm

DIFFUSE radiant system
covering: ceramic
dimensions: 600x600 mm

(new) products

We are constantly looking for solutions that bring innovation and comfort to indoor and outdoor spaces. The collaboration with major architectural firms and the desire to experiment have inspired us to create exclusive solutions in addition to the more classic wood, natural stone, ceramic, etc. finishes. From the floor plant system to natural cork, from LED panels to customised resin surfaces: our product range is rich in proposals that can add value to any stylistic approach or design requirement, even made-to-measure.

experiencing indoor greenery

Floor___a

Floora is the flexible system of **floor plants**, interchangeable with the raised floor panels, also pre-existing, which allows you to design customized green areas in indoor spaces.
The **simplicity** of composition makes it possible to create **islands or green paths** in just a few hours, choosing from plants of various types and heights, which can be used as decorative or dividing elements. Floora also uses the **hydroponics** system, a plant cultivation technique with multiple advantages in terms of maintenance and sustainability.
Easy to insert, Floora thus **promotes an idea** of contemporary and to all intents and purposes green living, sensible to the wellbeing of people and the environment.

+

- Floora offers the possibility to **create your own** composition by choosing among many indoor plants.
- the use of **expanded clay**, an inert material typical of hydroponics, ensures better support for plant development, guarantees perfect drainage of the nutritive liquid and saves around 80% of water compared to traditional plantation.
- Floora improves the **air quality:** plants absorb CO2, produce steam and regulate humidity, but they also absorb heat and noise, and filter the air.
- Floora is conceived to be installed in a few **simple steps**. The module is delivered ready to plug in and can be positioned in place of any raised floor panel.
- healthier, **less stressed**, happier, plants reduce negative sensations, positively influencing regeneration and concentration, productivity and creativity.

natural living

cork

Cork is the new proposal by Nesite in terms of finishings made with **natural** materials, a solution with **zero impact** on the environment and of excellent mechanical and physical characteristics.

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- **acoustic improvement:** thanks to its honeycomb structure (40 million capsules of air/cm^3), cork absorbs vibrations and sound waves. Tests confirm that the use of cork reduces the noises up to 53% compared to laminates.
- **excellent thermal insulation:** cork maintains insulating properties at a wide range of temperatures with consequent energy saving. The heat conduction coefficient of this material is 0.037-0.040 W / (mK).
- **anti-static:** the cork surface doesn't accumulate electrical charges, therefore the phenomenon of attraction and accumulation of dust is not there. Cork surfaces are easy to maintain and clean.
- **footfall comfort:** studies certify that after 45 minutes of walking on different surfaces, cork offers greater comfort, reducing the feeling of fatigue compared to linoleum, laminate and ceramic.
- **water-repellent and non-absorbent:** this feature is caused by the presence of suberin which represents the 39-45% of the cork mass. This substance increases the water-repellent properties, strengthens it and acts as a thermal insulator.
- **100% recyclable:** the wasted material is used to produce agglomerates for construction, clothing and much more.
- **co2 absorbtion:** cork is able to absorb CO2, the main cause of the greenhouse gas, up to 5 times its weight.

led the way

juno

JUNO is the high-brightness **led walkable panel**, designed to be part of raised floor systems, which allows you to create paths of light or highlight objects with maximum **flexibility**.
The finish in Solid Surface **HI-MACS®**, besides ensuring resistance and ease of maintenance, makes the panel elegant and refined, ideal for projects with high aesthetic **impact**.

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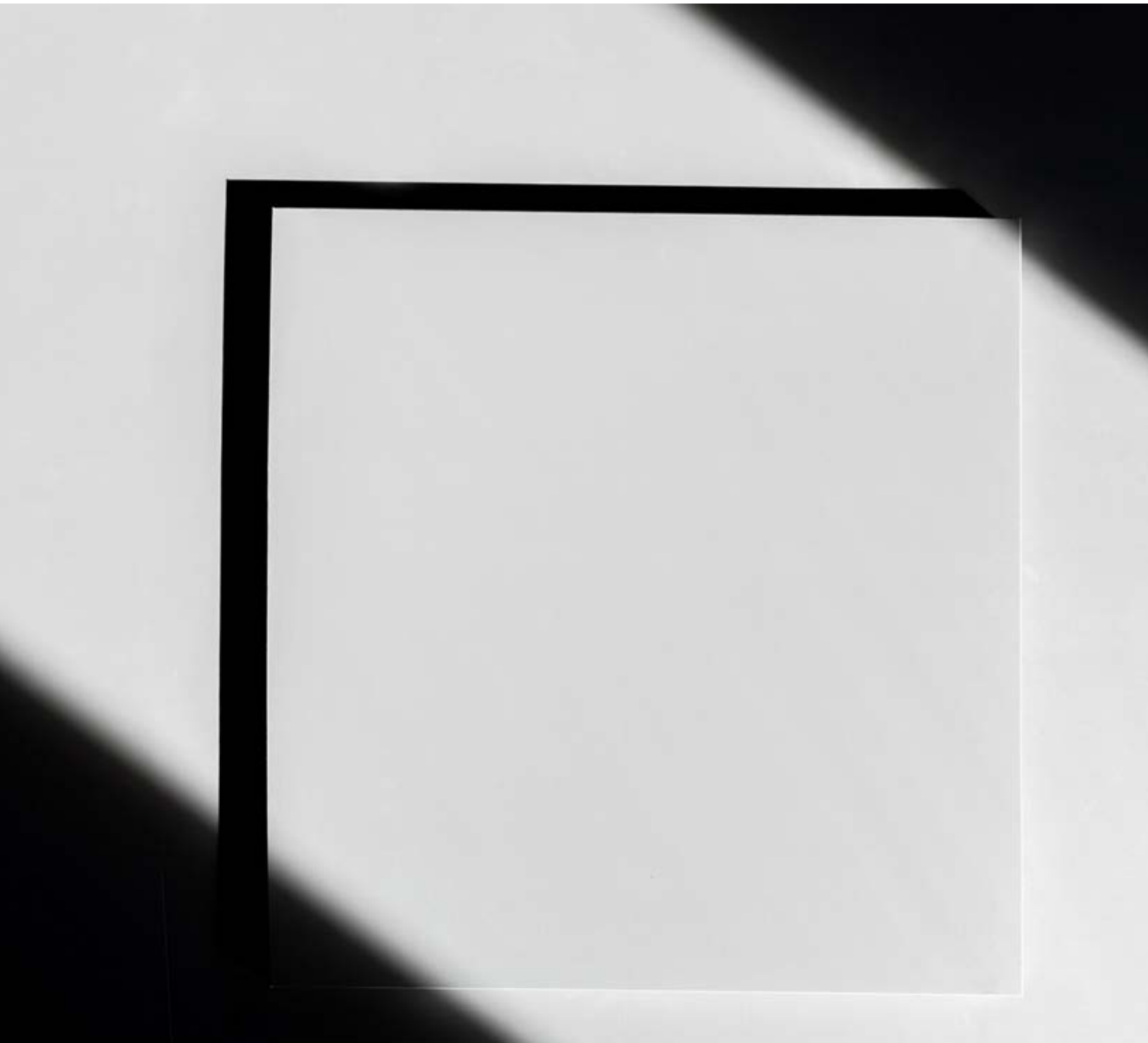
- JUNO is available in [PL] version, with a diffused light on the whole surface, and in [SP] version, with an **engraving** or silk-screen printing.
- designed as decorative panel, JUNO can be customized with **various texture**, making each project unique.
- composed of **eco-friendly** materials, it has a very low energy consumption with a minimum duration of 30.000 hours and absorption of only 30 W.

life in technicolour

4.0



4.0 is the **completely customizable** raised floor finished with a pigmented heterogeneous **resin** which, after drying, forms an anti-scratch and shock-resistant film, which makes it suitable for medium traffic.
With 4.0 you can decide:
- opacity (glossy, semi-gloss and opaque).
- finishing (standard or embossed).
- **graphic elements**, inserted through a particular printing process, for a further customization of the floor.

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- **versatility** of colours and finishes.
- the color range is available in 2 versions, PLAIN (homogeneous effect) and CONCRETE (with calcium sulphate in transparency), and is possible to choose between the colours of the Nesite collection or directly from the **RAL scale**.
- formaldehyde-free panel (class EN 717-1) with a low volatile content varnish.
- in the production process are used only 100% separately recyclable components.
- contributes to obtain the **LEED** certification.
- **reusable** at the end of the product life cycle.

high class collection

par-ky

Par-ky is an **eco-friendly engineered covering**, composed of a high density wood fibre core (HDF) and a real wood top finishing (unprinted).

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- **high resistance**, conferred by the very high density HDF core and the protective treatment on the upper surface.
- **very high density**, due to the double impregnation system.
- **uniqueness:** with Par-ky the final result is always unique, thanks to the infinite number of textures typical of natural wood.
- **air quality:** Par-ky is finished only with water-based varnish and is free of COV or any volatile component. Quality label A+.
- **environmental compatibility:** the raw material comes from sustainably managed forests and each board is 100% recyclable. Available in FSC certified version.
- **leed contribute:** Par-ky complies with the highest LEED standards, with a potential of 4 credits.

high class collection

parquet

Flooring of ancient traditions, parquet is today a solution also suitable for modern spaces, thanks to the structural and aesthetic characteristics of the Nesite raised floor.
Elegance, durability and versatility are the most obvious advantages of the wooden floor, while the pleasantness to the touch and hearing are the most hidden and precious qualities of parquet.
The constant care after the installation is a necessary condition to obtain the wood's long yield and a good aesthetic result.
Ideal for executive offices and **prestigious** areas with medium traffic.

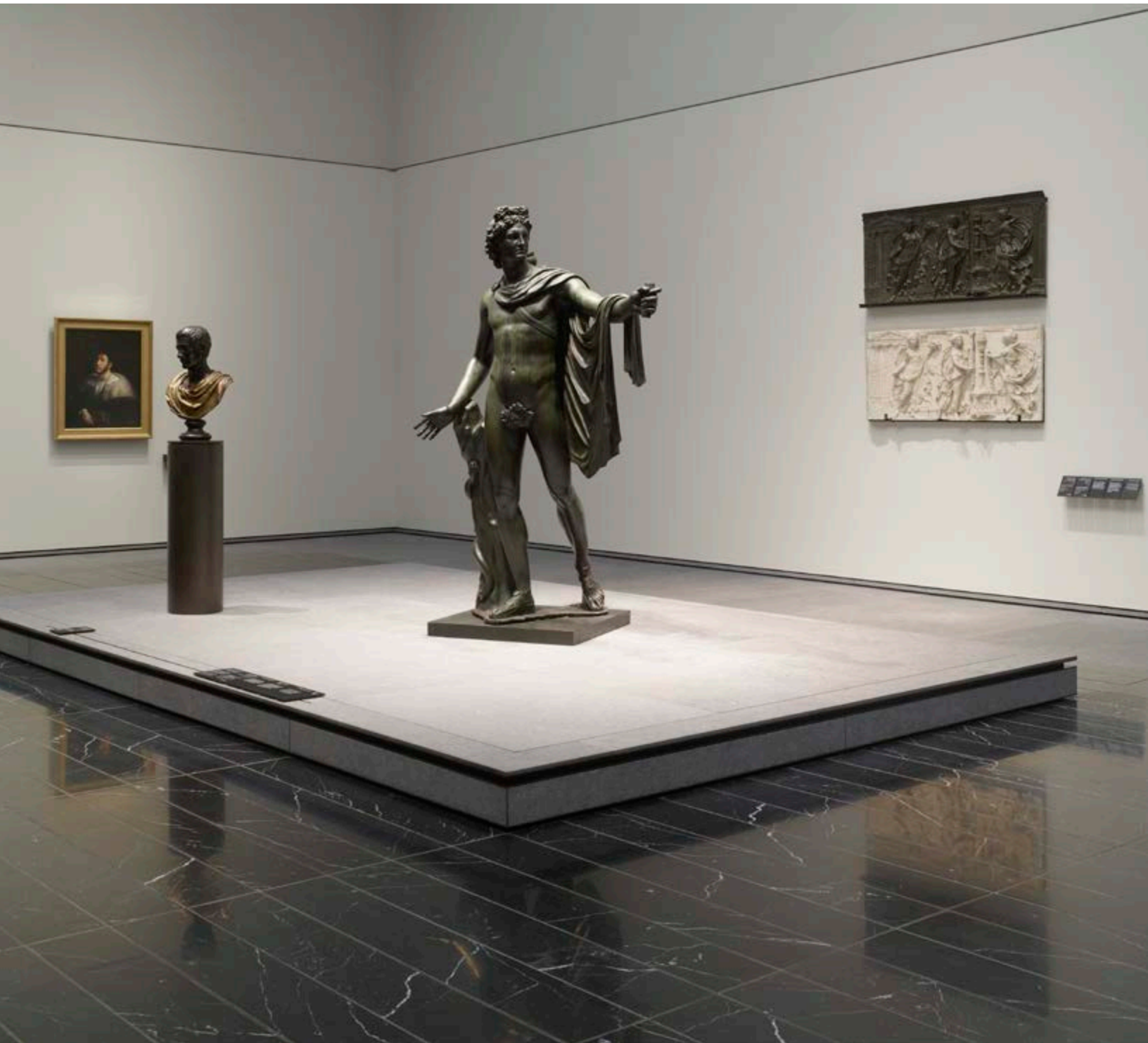
high class collection

ceramic

The ceramic raised floor offers a wide range of **colors and sizes**, with solutions which can satisfy the **contemporary** taste for modern spaces but also recreate the warmth of the most classic surroundings, similar to natural materials (wood and marble).
Nesite has selected the materials that best meet the various demands of **architects and designers,** combining the aesthetic with the technical performance of the raised floor.
In addition to the standard format 60×60 cm, the panels can be supplied in special sizes.
Ideal in commercial and/or public centers with medium - high traffic.
Thickness top covering: 10-11 mm.

high class collection

natural stone

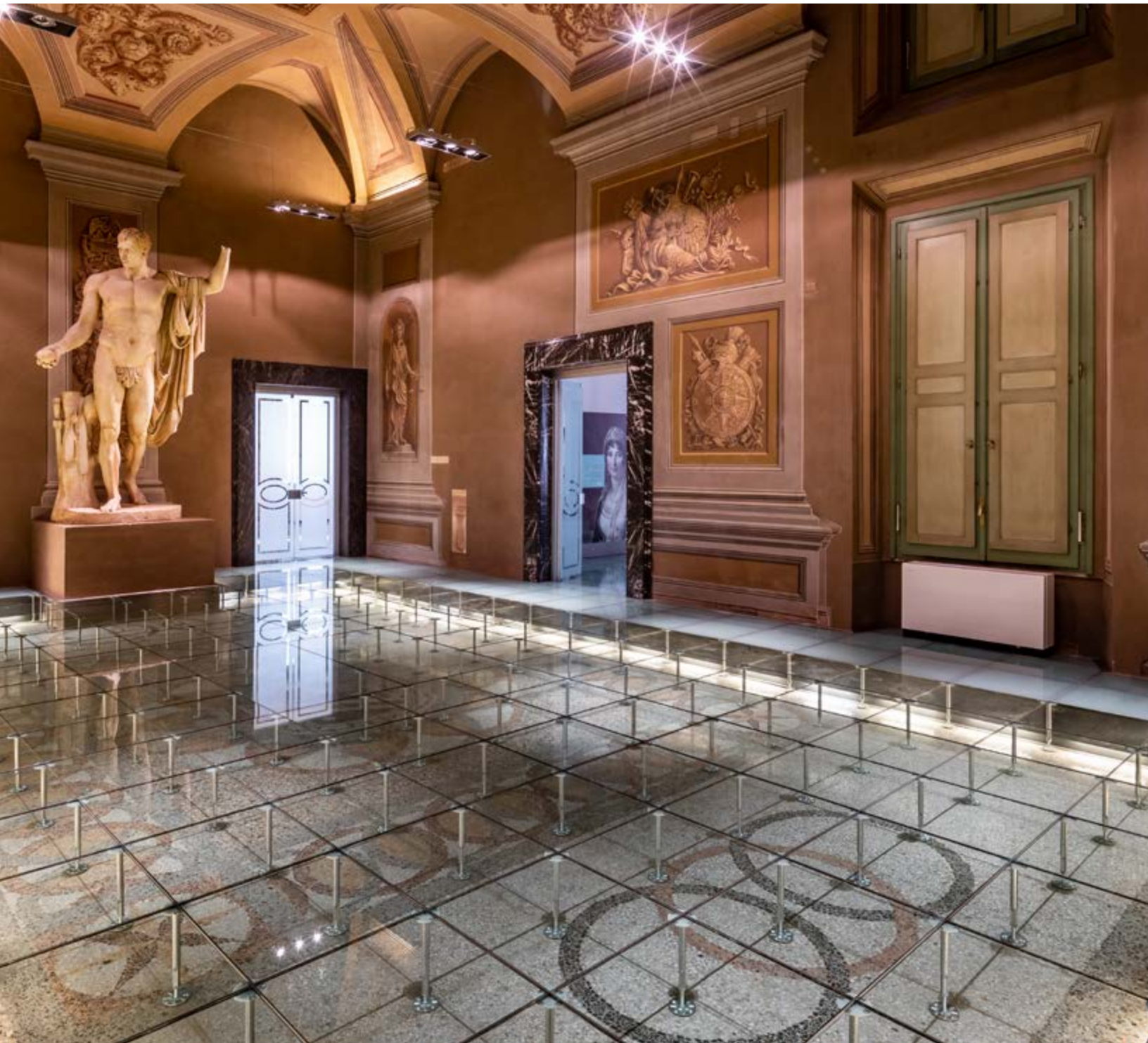


n e s i t e

Nesite stands out for the production of raised floor with natural stones such as **marble and granite**.
In our factory the covering is coupled to the panel core, rectified in line, edged and bevelled. The result is a panel with dimensions that respect the **modularity** of the raised floor and allow an easy handling, thanks to the protection side in ABS.
Nesite, furthermore, is specialized in the realization of panels in **special** dimensions, **customized** on the project requests.
In addition to the standard format 60×60 cm, the panels can be supplied in special sizes.
Ideal in business centers and prestigious spaces with medium traffic.
Thickness top covering: 18-19 mm.

high class collection

glass



The glass raised floor allows solutions of **particular value**, in combination with other coverings or even as main element.
The installation of a glass raised floor is mainly preferred in **museum contexts,** where it allows to create suggestive **walkable exhibition paths.** It is also frequently used in buildings of historical value, where there is a need to **preserve, protect and enhance the original flooring.**
The glass raised floor is available in transparent or opaque version.
In addition to the standard format 60×60 cm, the panels can be supplied in special sizes.
Ideal in museums and spaces with special architectural requirements.

free to move

loose-lay finishes

Loose-lay finishings are an extremely **versatile** solution in terms of materials (textile, resilient, ceramic), formats and colours. They are characterised by the **easy installation,** simply laid on bare panels (primer or aluminium foil on the top surface), without any need of mechanical fixing or glue. They are immediately walkable, totally reversible and maintain full accessibility to the underfloor.
Nesite completes the range of loose-lay coverings with **an exclusive proposal in natural cork.** It is a solution that encloses all the sustainability and performance characteristics of cork, ensuring high **footfall comfort and sound insulation,** further implemented by the 3 mm recycled rubber support. The loose-lay cork finishing is also very resistant to abrasion thanks to the **Hot Coating** treatment of the surface.

technical collection

resilient and hpl

laminate

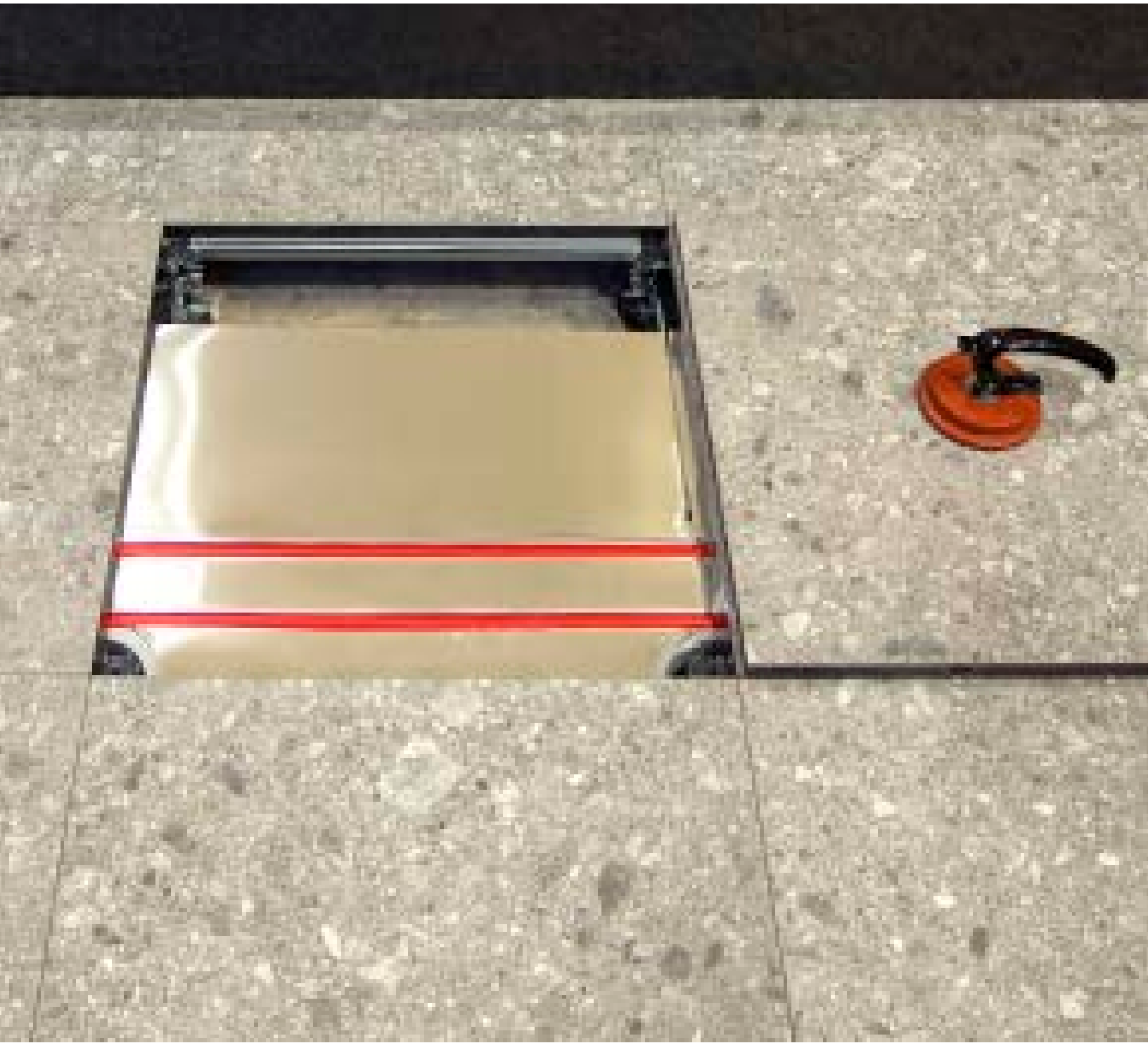
The high pressure laminate (HPL) is a **very resistant anti-abrasion finishing,** particularly suitable for **technical rooms and high traffic areas.** Offers a wide range of colors, including the wood effect collection.
The laminate covering has a standard thickness of 0.9 mm up to 1.2 mm and can also be produced with **various abrasion resistance coefficients.**

vinyl, linoleum, rubber

Vinyl, linoleum and rubber are resilient coverings, particularly indicated in technical rooms, hospitals and medical studios, airports.
- vinyl is a covering available in a wide range of colors and finishes effects, which can be supplied in **antistatic or conductive version**.
- linoleum is a covering of excellent abrasion resistance and is produced using **eco-friendly materials.**
- rubber is a very resistant covering, ideal in **high traffic areas.**
Resilient coverings are available in **various thicknesses,** from 2 mm up to 3.2 mm or more, when supported by foams or cork substrates in order to improve sound insulation.

warm touch

diffuse



Diffuse is the first **patented dry radiant raised access floor** completely accessible, which does not require any cement screed for the thermal regulation of the space where it is installed. It is lightweight, fast and easy to install, can be **immediately walked** on and has a very low thermal inertia. Diffuse was designed to optimize the highest thermal efficiency, without sacrificing the characteristics that a raised floor must ensure.

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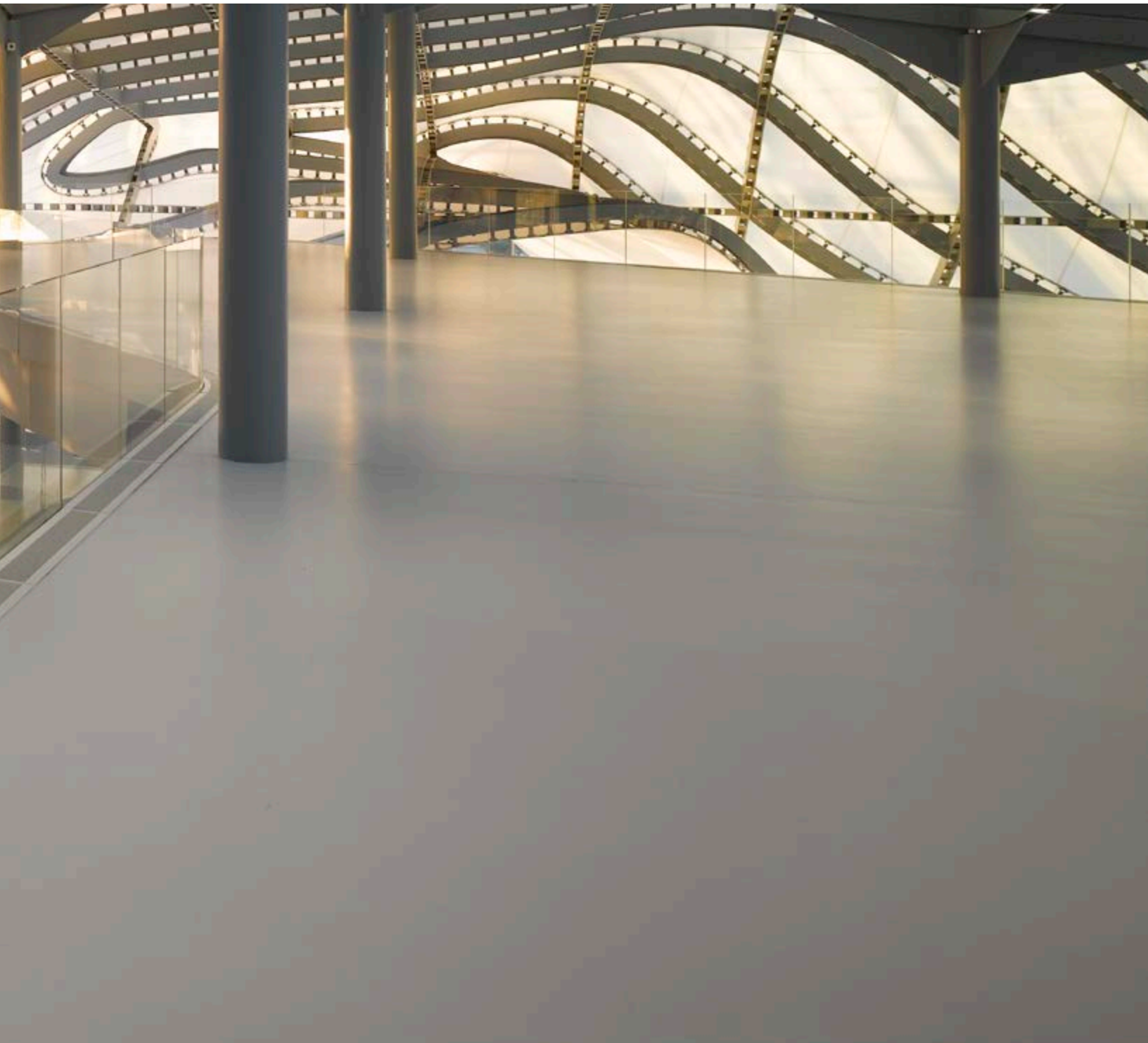
- rapid and efficient installation, thanks to the **dry laying.**
- totally **accessible:** each panel can be removed and repositioned without any constraint.
- no architectural limit thanks to the total lack of heating elements in the room (e.g. fan coils or radiators), for the maximum **freedom** and purity of design.
- no convective motion of air in the room, no alteration of air quality and reduction in the amount of dust into the room.
- high **thermal performance**, fast response speed and excellent temperature distribution (uniform heat up to 2.5 m high).
- **energy saving**, minimum 30%.

stand together

tetris floor



Tetris floor is the dry raised floor system with high density calcium sulphate core characterized by the **tongue and groove edge**. Available in various thicknesses, it allows access to the underfloor only in certain points, through access panels.

+

- **rapid** and efficient installation thanks to the dry laying.
- great mechanical resistance thanks to the **hardness** of the tongue and groove system.
- surface **smoothness**.
- fire resistance class REI 30 (according to UNI EN 13501-2).
- acoustic insulation.
- it can be finished with **any type of top covering**, loose - laid or glued.
- possibility to install dry walls directly on the Tetris Floor, as well as to install ramps, steps and terracing (e.g. auditorium).

outdoor vibe

twin floor

Twin floor is a very high density panel (**2.200 Kg/m³**), realized through a **special coupling process** of the ceramic or stone covering to the panel core composed of inert and inorganic materials, sintered at very high temperatures.
It's a floor of high mechanical performance that guarantees **dimensional stability** in presence of humidity, water and changes of temperature.
Ideal for paving outdoor atriums, gazebos, swimming pool contours. It can be applied **dry** (just laid) directly on gravel or grass, but is normally installed on PVC supports of various heights.
Twin floor is also available in the version with ABS edgetrim for **indoor spaces**.

+

- **lay the floor faster** than with traditional floor and consequent time saving.
- inspect the underfloor space easily and quickly.
- improve the thermal insulation, thanks to the space between the raised floor and the slab.
- **ventilate** the underfloor space with consequent elimination of damp and radon gas.
- drain the rain water, thanks to the special shape of the panel.
- high **mechanical resistance**, non-absorbent, fire reaction class A1.

what's going on down there

raised floor system

The raised floor is a system composed of **modular panels,** combined with a galvanized steel supporting **structure.**
The panels can have different types of **core** (chipboard or inert) and top covering (plastic laminate, resilient, gres of ceramic, parquet, marble). There is also the possibility of choosing panels without top covering, suitable for loose – lay coverings that allow the **inspection**.
Each panel has a **perimeter protection** which guarantees both a perfect junction and an easy handling.
The structure, easy to install, is composed of various heights **supports** (from 3 cm to more than 100 cm) and from stringers whose dimensions vary according to the load required.
The **performances** of the system depend on both components (panel and structure) which comply with precise regulations in terms of resistance and reaction to fire, load-bearing capacity, antistatic properties and acoustic insulation.


NESITE
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panels

The panels are the **main part** of the raised floor system, at the same time helping to ensure the designed load resistance and determining the aesthetic characteristics of the space.
Each panel consists of four elements:

I. Top covering, the element that characterizes the appearance of the finished floor. Available in a wide range of materials and colors.
II. Panel core, the structure the panel is made of, which determines the characteristics of resistance to loads and to fire. It can be made of various kinds of materials in various thicknesses.
III. Edge trim, in high mechanical, thermal resistant and antisqueak ABS. It covers the perimeter of the panel, protecting it from accidental hits. It guarantees a perfect junction between panels, for an easy handling and repositioning.
IV. Bottom covering, of various types:
- anti-dust primer (only for calcium sulphate panels).
- aluminum foil, 0.05 mm thick, contributing good protection against the possible humidity under the floor.
- galvanized steel tray, 0.4 mm thick, ensuring protection against humidity and improving the panel's mechanical resistance.

The standard size of Nesite panels is 60x60 cm but, upon request, **customized** dimensions can be supplied.

nesite

panel core

chipboard

Good footfall comfort
Discreet acoustic comfort
Good load capacity
Fire resistance: 30 min
Interchangeable panels that are easy to remove
Wide range of top coverings

Its light weight, low cost, ease of processing, simple and economical installation, combined with good technical characteristics, make the chipboard core the most requested and used in the market. The element that defines the mechanical qualities of this material is its density.
Nesite uses exclusively FSC® chipboard in class E1 (according to EN 717-2) for its panels, with very low formaldehyde emissions and high density 730 kg/m³.
It's available in two thickness:
- 28 mm, used when a high load capacity is not required;
- 38 mm, the most requested thickness due to its good performance and complete certification.

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panel core

calcium sulphate

Very high footfall comfort
High acoustic comfort
Excellent load capacity
High fire resistance: 60 min
Interchangeable panels that are easy to remove
Wide range of top coverings

The calcium sulphate core is considered the top of the range and is used when high performance floors are required. It consists of a monolithic layer of calcium sulphate, anhydrite-reinforced, with recycled cellulose fibers, reaction to fire in class A1, according to EN 13501-1.
The main feature that ensures high performance is the density. Nesite uses calcium sulphate with a density of 1600 kg/m³, the highest available on the market. The panels produced with this type of core represent the best combination of technical quality and performance, with high characteristics in terms of thermal insulation in case of fire.

n e s i t e

panel core

sintered material

Very high footfall comfort
Good acoustic comfort
Excellent load capacity
Completely fireproof and waterproof
Reduced thickness: only 25 mm, including gres covering

The panel with sintered material core is born as an innovative solution for outdoor or high humidity areas, but it is also an excellent solution for the indoor spaces.
This type of panel is composed of a core of inert and inorganic material, with a very high density (2200 kg/m³), sintered at very high temperatures. Thermal shock resistant, non-absorbent (0,05% water absorption), frost-proof. The fire reaction of the panel core is in class A1, according to EN13501-1. The top covering is available in ceramic or stone materials.
Thanks to its excellent characteristics, can be installed in outdoor areas in direct contact with the atmospheric agents, to guarantee unparalleled durability and long life.

n e s i t e

structure

The structure is the **fundamental** element of a raised floor, as it determines the height over the surface it is lying on. It is composed of two elements: the columns which constitute the vertical element **adjustable** in height, and the connection stringers.
The structure is available in **different** heights for different needs, from a minimum of 3 cm to 100 cm in the standard version. Upon request, it is also available for bigger heights, condition that requires specific design and installation features, such as the use of bracings. The structure is able to bear very **high loads**, as it relies on different types of stringers, both open and closed section.
The **sound-absorbing** gaskets on the head of the column are made of antistatic or conductive plastics and allow an optimal positioning of the panels thanks to dedicated spacers stops. Nesite, furthermore, proposes the installation of an acoustic pad at the base of the structure, a simple and inexpensive solution that maximizes the sound insulation, reducing significantly the noise transmission.

types of structure	
mps	structure without stringers, suitable for light loads and heights < 60 cm. Pedestal glued to the slab.
mpl	structure with light, open cross-section stringers that strengthen the system horizontally, ensuring stability between the columns even without gluing them to the sub-floor, in case of heights < 60 cm.
mpm	structure with medium resistance and open cross-section stringers. Ideal for areas with medium traffic.
mph	structure with high resistance and closed cross-section stringers. Ideal for data centers, technical rooms or offices with high traffic.
bpc	structure indicated for very high loads and suitable for any type of panel. It consists of vertically adjustable columns and closed cross-section stringers, L 1800 and 550 mm.

standard en 12825

Standard EN12825 establishes the guidelines concerning the main characteristics of raised floor. Nesite always provides designers with a product whose specifications meet 100% EN 12825 European standard indications, without sacrificing the creative possibilities of each individual implementation.

fire performance

Decisive for the physical safety of people who live and work on a raised floor, the fire performance is the quality that must be guaranteed in terms of fire reaction (participation in combustion) and fire resistance (mechanical resistance, smoke emission and thermal insulation).
Both are determined by the characteristics of each component and/or material that constitutes the raised floor. The parameter of the fire resistance indicates the quality and the behaviour of the raised floor in case of fire and determines the values that guarantee, above all, the safety for people within that environment. The strict test conditions that determine this parameter identify the minimum time in which one of the conditions measured (decrease of the declared resistance to loads, emission of smoke between the panels and temperature rise of the floor in the presence of fire underneath) it becomes evident.
Nesite raised floors fully meet the fire resistance required by the EN 13501 regulation.

load capacity

The raised floor is designed and manufactured to provide mechanical resistance, high stability and comfort. With the various possible combinations between the type of structure and panel, Nesite is able to support very high loads, offering a solution to all load classes required by EN 12825, without any deformation or failure.

class	1	2	3	4	5	6
max load (kn)	≥ 4	≥ 6	≥ 8	≥ 9	≥ 10	≥ 12

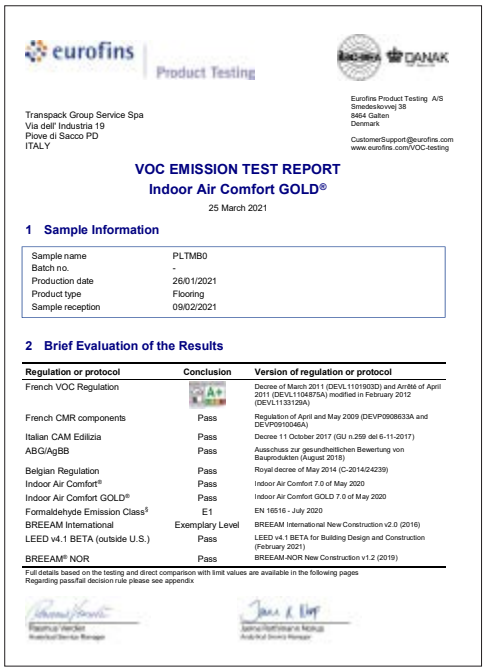
acoustic insulation

The ability to mitigate the footfall noise, along with the ability to isolate the space from the noise transmitted by air, are among the main qualities of raised floors.
Nesite has always been careful to ensure its products a high acoustic comfort in accordance with UNI EN ISO 10848 and, thanks to the use of materials with high-quality compositional characteristics, Nesite floors reach excellent acoustic insulation values.

n e s i t e

ecopolitics

Nesite is an eco - friendly company as for the production of its raised floor uses only recycled and recyclable materials, certified by accredited authorities.
Choosing Nesite raised floor means selecting a product realized according to criteria of environmental sustainability and with certified materials; therefore, Nesite is able to adequately respond to the requests coming from LEED or BREEAM projects.
Nesite has contributed to the certification of some prestigious projects such as Gioia22 (certified WELL, NZEB and LEED Platinum), Louvre of Abu Dhabi (certified LEED Silver), Banco Popular of Madrid (certified LEED Gold) Christchurch Civic Building in New Zealand (certified LEED Platinum) and the Wilberg Atrium in Norway (certified BREEAM Class A).
Our team of experts is able to offer a products mapping so to determine the credits that will contribute to the building's final score.
Moreover, Nesite has obtained the FSC® Chain of Custody Certification, which guarantees that its floors made of chipboard core and parquet coverings contribute to safeguarding the precious forest heritage all over the world.



eurofins | Product Testing

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VOC EMISSION TEST REPORT
Indoor Air Comfort GOLD®

25 March 2021

1 Sample Information

Sample name	PLTMB0
Batch no.	-
Production date	26/01/2021
Product type	Flooring
Sample reception	09/02/2021

2 Brief Evaluation of the Results

Regulation or protocol	Conclusion	Version of regulation or protocol
French VOC Regulation	A+	Decree of March 2011 (DEVL1101903D) and Arrêté of April 2011 (DEVL1104875A) modified in February 2012 (DEVL1133129A)
French CMR components	Pass	Regulation of April and May 2009 (DEVP0908633A and DEVP0910046A)
Italian CAM Edilizia	Pass	Decree 11 October 2017 (GU n.259 del 6-11-2017)
ABG/AgBB	Pass	Ausschuss zur gesundheitlichen Bewertung von Bauprodukten (August 2018)
Belgian Regulation	Pass	Royal decree of May 2014 (C-2014/24239)
Indoor Air Comfort®	Pass	Indoor Air Comfort 7.0 of May 2020
Indoor Air Comfort GOLD®	Pass	Indoor Air Comfort GOLD 7.0 of May 2020
Formaldehyde Emission Class[9]	E1	EN 16516 - July 2020
BREEAM International	Exemplary Level	BREEAM International New Construction v2.0 (2016)
LEED v4.1 BETA (outside U.S.)	Pass	LEED v4.1 BETA for Building Design and Construction (February 2021)
BREEAM® NOR	Pass	BREEAM-NOR New Construction v1.2 (2019)

Full details based on the testing and direct comparison with limit values are available in the following pages
Regarding pass/fail decision rule please see appendix

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(our) profile

For over 50 years, Nesite's goal has been to create building element of a new-generation furniture, a compound design system that can be a key element of the space where it is installed. Hence the innovative boost of the company, that over the years has developed highly customized products for complex and prestigious international projects, combining the typical flexibility and attention to details of the artisan company with the professionalism, technologies and production capacity of the large-scale industry. Thus a bespoke raised floor is born, rigorously made in Italy, created according to specific requests in compliance with the project lead time.

care

Choosing Nesite raised floors means taking benefit from the experience of a leading company: the care in working the finished products, combined to the highest quality, make Nesite's proposal a reference in the international market. An experience that becomes reality in the identification of technical solutions which allow to manage and deal with the most complex projects.

exclusivity

Nesite proposes itself as a partner in the most prestigious projects, offering exclusive solutions to the most original requests for the execution of a raised floor system. The international projects carried out are the testimony of the value that Nesite has been able to bring to its customers.
The technical competence combined with the ability to understand the specific needs of the customer gives life to a raised floor system of high aesthetic value, in harmony with the surrounding environment.

innovation

Nesite raised floor is made in Italy, following the most rigid criteria. The research of innovative solutions, the excellent characteristics of the materials and the meticulous attention to details determine the product's technical-aesthetic qualities and ensure an excellent result to our customers. Each panel is produced in compliance with dimensional tolerances to ensure an easy installation and the accuracy of the joints between panels.

performance

Nesite raised floors are produced in compliance with EN 12825 standard, the European norm which regulates raised floors, providing a series of performance parameters such as mechanical resistance, fire reaction and fire resistance, thermal insulation and acoustic comfort.
Nesite can provide certifications for its range of products that guarantee the fully compliance with these regulations.