

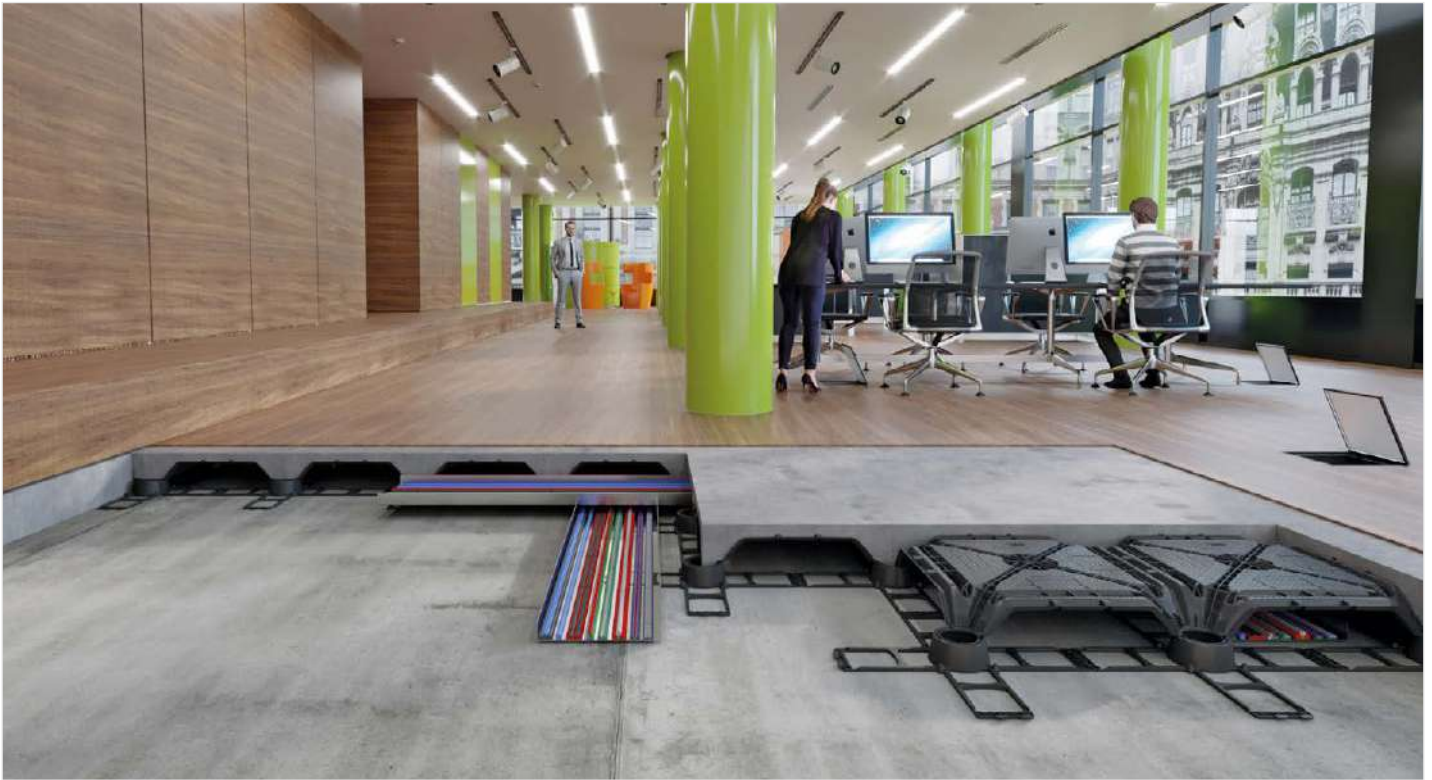
MATRIX



CONCRETE FLOATING FLOOR



THE CONCEPT



New design requirements for buildings drive the rise of new technologies and construction solutions, aimed at meeting the demands of construction sites and becoming new standards in their target markets.

The study of ongoing changes in the construction industry, increased demand of safe, customizable and low-impact solutions has led to the conception of product MATRIX.

FIRE RESISTANT



The monolithic concrete casting above the MATRIX system, allows to completely isolate the flooring and the MEP from possible internal fires.

HIGH LOAD BEARING



The MATRIX concrete slab has a load-bearing capacity up to 1 T/m² apt for heavy-load vehicles passage; the product is treadable during installation

FLEXIBILITY OF DESIGN



MATRIX is designed in order to meet the needs of all parties involved in the design, construction and use of the building, allowing high flexibility in the design phase as well as in the actual installation.

THE SOLUTION

With MATRIX, a high-load bearing slab in reinforced concrete is cast to house cable trays for the laying of mechanical, electrical and plumbing (MEP) and other utilities.

The preliminary installation of the MATRIX base grids, helps technicians in the tracing of the systems, simplifying the laying of the cable trays. After laying the MEP, the system is closed on top with the Matrix upper dome, steel wire mesh is laid over it, and finally the top concrete slab is cast.

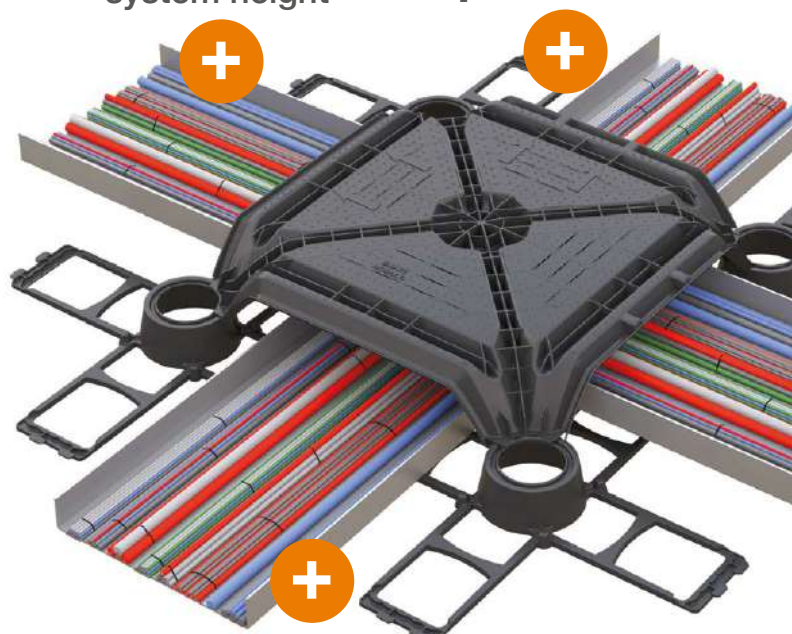
MATRIX is suitable for all buildings with large areas requiring flexibility in the installation and management of MEP systems, combined with a high load-bearing capacity.



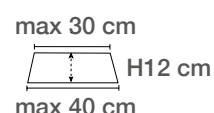
**REGENERATED
PLASTIC MATERIAL**

**15 cm
system height**

3 pieces = 1m²



**Housing of utilities
cables and conduits**



HOSPITALS

AIRPORTS

DATA-CENTER

CRUISE TERMINAL

TERTIARY SECTOR BUILDINGS

SHOPPING MALLS

METRO/RAILWAY STATIONS

CONTROL ROOM AND WHITE ROOM

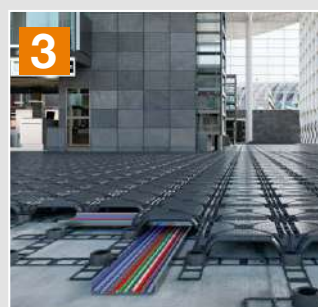
CONCRETE FLOATING FLOORING



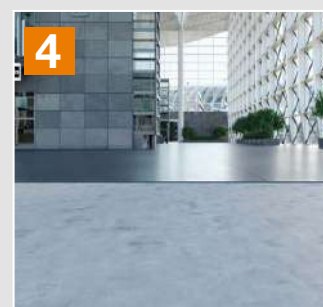
MATRIX base grid facilitates the technicians work by creating a map to guide the utilities installation.



The laid grids facilitates the installation of pipes for cables and wiring.



Simplification in the laying of large surfaces areas thanks to the fast and precise installation of the system without the aid of laser instruments.



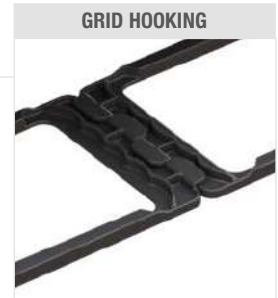
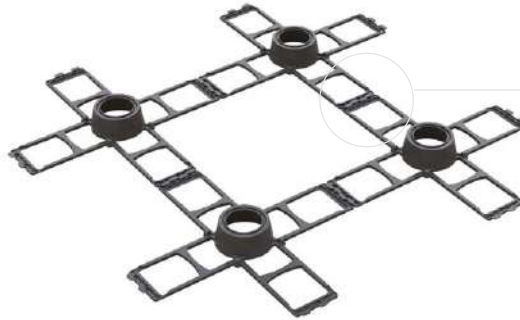
The final result is an high load-bearing, safe and fire-resistant flooring.

INSTALLATION

1

MATRIX BASE GRID INSTALLATION

Fast and safe laying, without ground fixings that slow down the installation and damage the support surface. The grids laid on the ground create a clear mapping of the areas available for the passage of the utilities. They are coupled with each other thanks to a pressure hooking system that guarantees precise assembly.

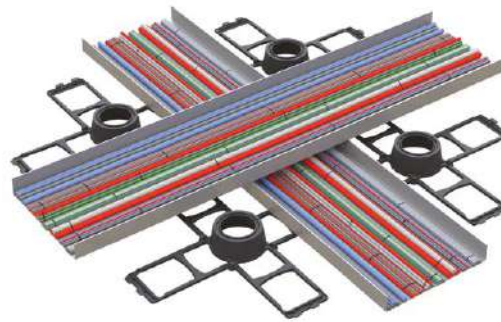


The grids play an important role as spacers, avoiding direct contact between the ducts and the support surface. This detail prevents corrosion phenomena contributing to ensure the integrity of the flooring over time.

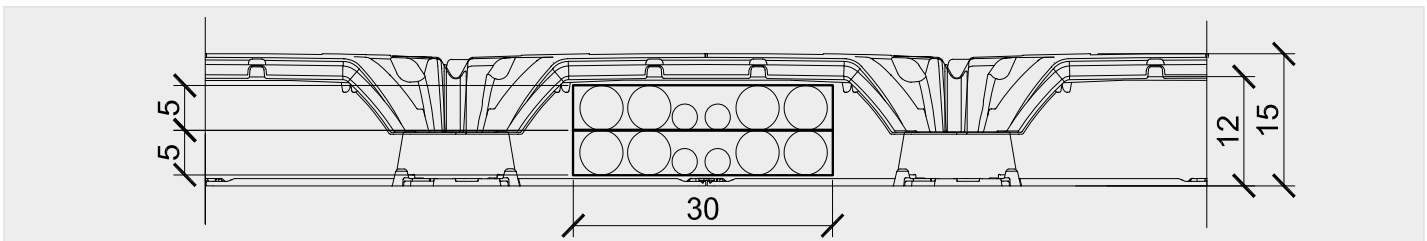
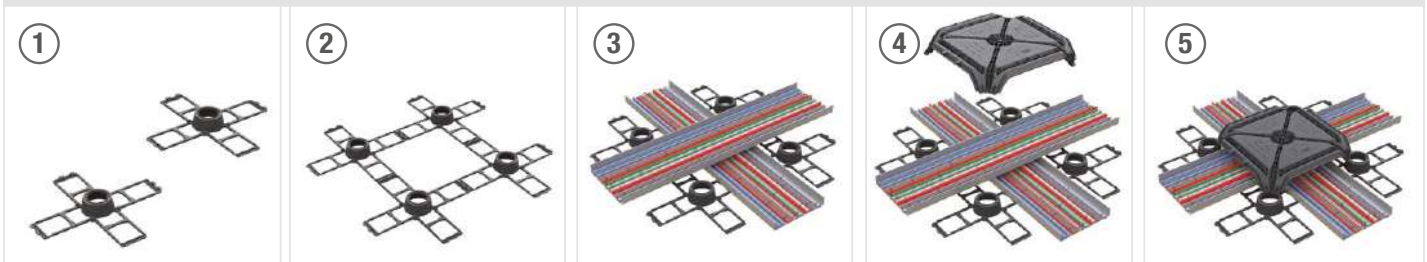
2

LAYING OF MECHANICAL, ELECTRICAL AND PLUMBING

Utilities cables housing according to the project specifications.



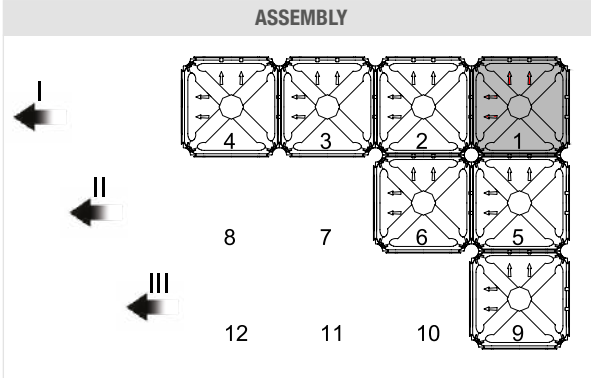
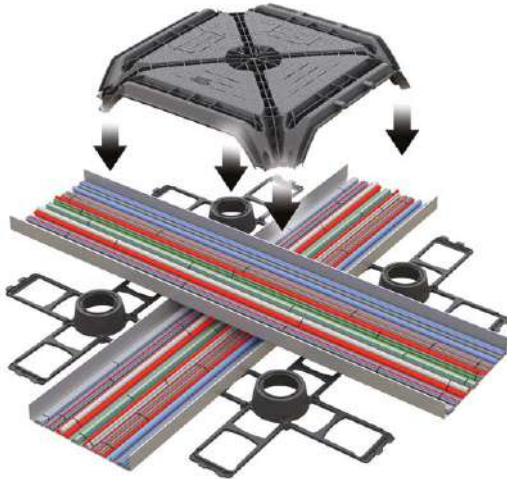
LAYING SEQUENCE WITH 2 OVERLAPPED CABLE TRAYS



3

INSTALLING THE FORMWORK

The installation of the MATRIX formwork is extremely fast, 100 m² per man-hour.



4

STEEL REINFORCEMENT AND CONCRETE POUR

After steel mesh laid, proceed with concrete pouring for flooring finish.



MATRIX

Load bearing capacity: CLASS 6 costant



CLASSIC FLOATING FLOOR

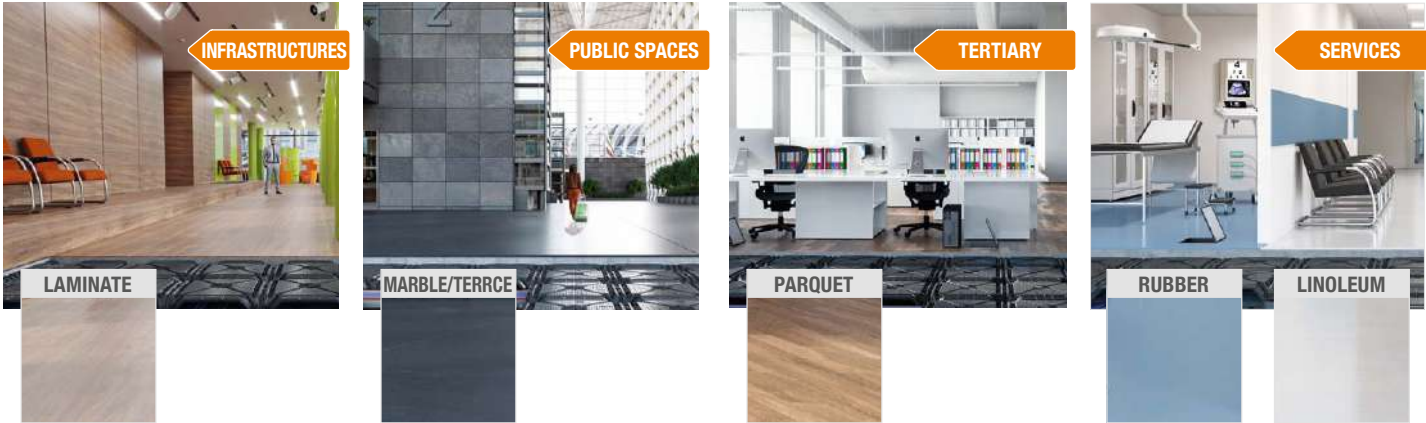
Load bearing capacity: variable



FLOORING

VERSATILE AND CUSTOMIZABLE

The raised area is seamless and is suitable in any context, even in case of future changes of destination of use for the building. MATRIX works with standard market accessories such as power distribution towers, telephone lines, access doors, grids, etc. The ample flexibility offered in the choice of top finishing is an added advantage offered by MATRIX to designers and final users.



ACCESSIBLE TECHNICAL COMPARTMENT



MATRIX allows the creation of on-site inspection wells for the technical compartment access. The wells allow the installation of the main cable boxes available on the market.



EXCELLENT ACOUSTICS



Elimination of footsteps and rumble sound compared to traditional floating floors that are known to be affected by the reverberation of the underlying metal structure.



MATRIX

The decades-long experience of Geoplast in realizing structural systems for the construction industry, has led to the design and development MATRIX.

A universal solution for realizing raised floorings with high load-bearing capacity, suitable for application on all types of building. The system is composed of 2 elements, a top formwork and a four-arm bottom grid, both manufactured in Polypropylene.

TECHNICAL DATA

MATRIX FORMWORK



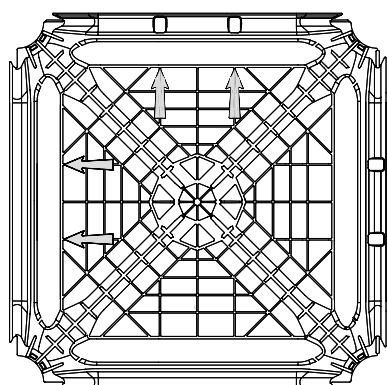
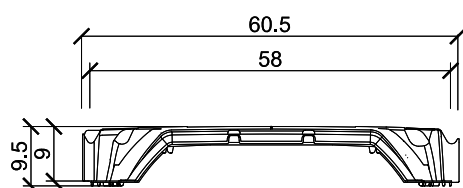
Dimensions (cm)	58 x 58 x H9
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Material	Graplene
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Packing dimensions (cm)	122 x 122 x H253
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No. pieces per pallet	312
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Product Code	EELESMF5858
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MATRIX BASE GRID



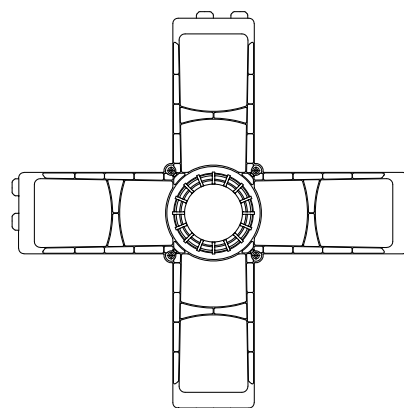
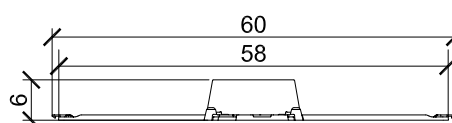
Dimensions (cm)	58 x 58 x 6
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Material	Graplene
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Packing dimensions (cm)	100 x 140 x H253
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No. pieces per pallet	1135
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Product Code	EELESMG5858
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Geoplast
Building beyond together

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