

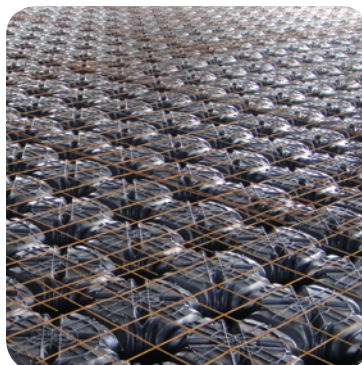
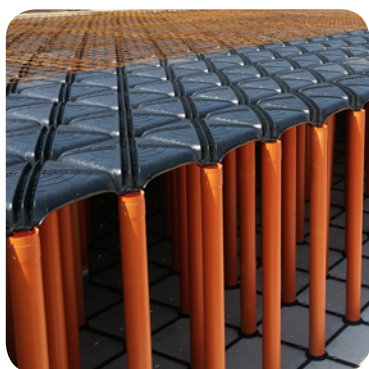
PLASTICHE 3F

INNOVATIVE AND FUNCTIONAL SOLUTIONS

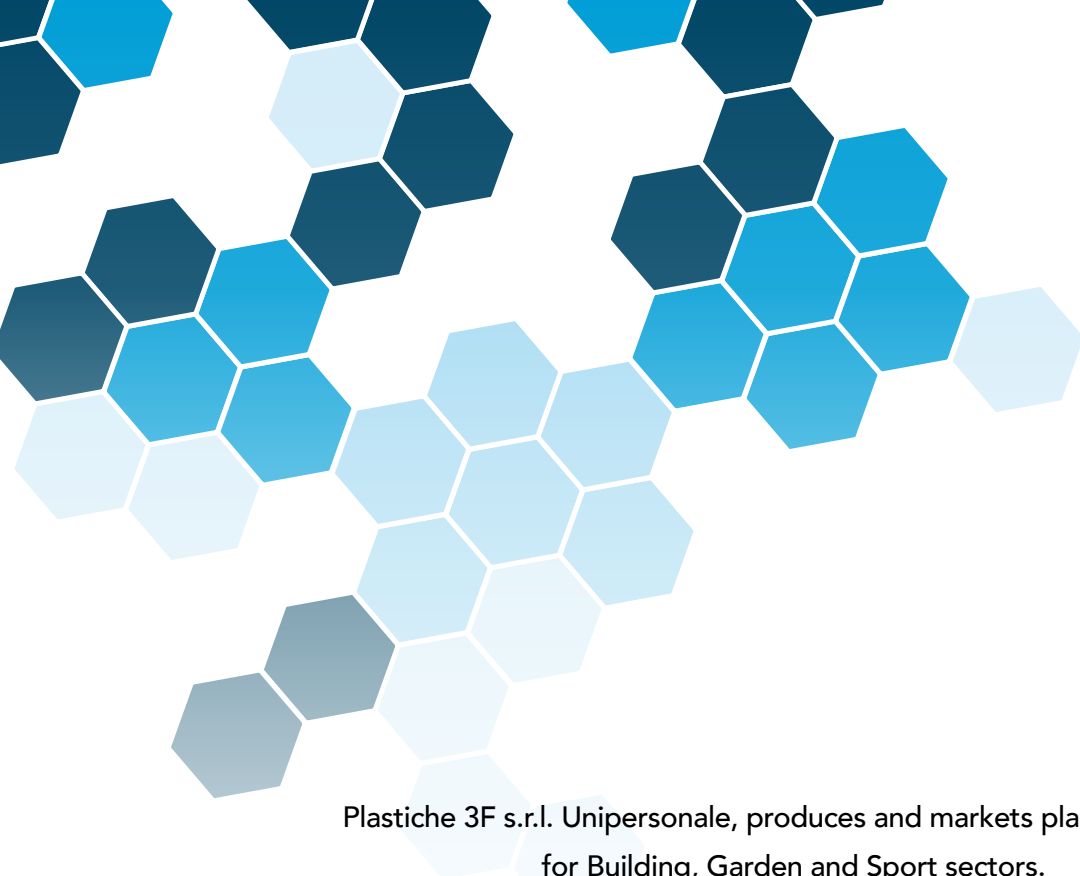


specific products for

BUILDING GARDEN SPORT



PLASTICHE 3F



Plastiche 3F s.r.l. Unipersonale, produces and markets plastic products for Building, Garden and Sport sectors.

Our activity consists in the continuous research for innovative solutions that can allow more comfort, design and economic advantage in various applications.

BUILDING

Innovative products for private houses and industrial buildings.

GARDEN

Ecological and design products for the realization of outdoor flooring and hanging gardens.

SPORT

Innovative products for sports.

Our company pays close attention to the environment.

We make recycled and recyclable plastic products.

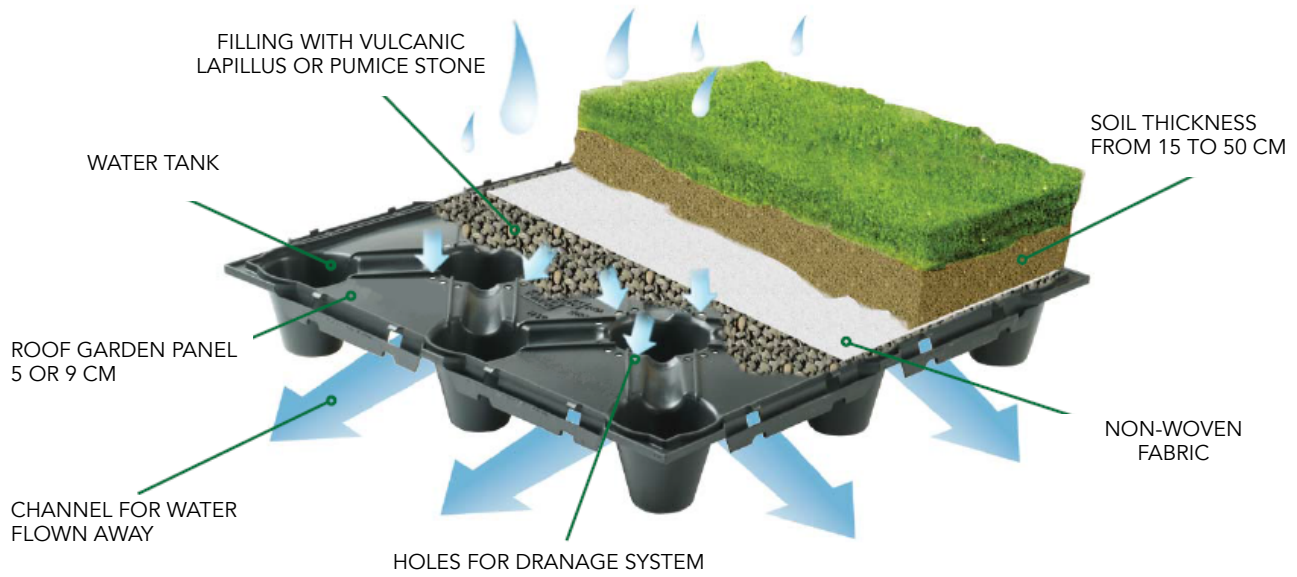




THE **ROOF GARDEN PANEL** COMES IN EITHER 5 OR 9 CM HIGH AND ARE MADE FROM RECYCLED PLASTIC. THE ROOF GARDEN PANEL IS LIGHT WEIGHT AND COMES WITH INTERLOCKING PANEL DESIGNED TO PROVIDE QUICK COVERAGE AND ESTABLISHMENT OF ROOF GARDENS. THE PANELS NOT ONLY ALLOW THE EXCESS WATER TO DRAIN AWAY BUT THE PLASTIC CUPS ALSO PROVIDE FOR WATER STORAGE TO ALLOW THE PLANTS REUSE WHEN DEVELOPING ROOF TOP GARDENS. THE SYSTEM CAN PROVIDE A GREEN ROOF SOLUTION FOR RESIDENTIAL, INDUSTRIAL AND COMMERCIAL BUILDINGS.

ROOF GARDEN

ROOF GARDEN PANEL



Roof gardens have been proven to provide a range of benefits in assisting in the reduction of climate change impacts and provide a more general well-being to our cities environments.

Benefits include:

- Reduce the impacts of urban heat island effects;
- Regulate urban rainfall runoff, through accumulation and retention, and returning a small percentage of this water, to the environment;
- Reduces outside noise pollution;
- Improve visual amenities of the urban landscape.
- Reduces roof top maintenance costs, since the entire area is covered and protected from the sun's direct rays, inclement weather and seasonal temperature variations.

The Roof Garden Panel is easy to lay and move. The empty space that is created between the waterproofing and the panel, allows the passage of pipes and cables required to install irrigation systems, lighting or any other requirements.

The staggered layout of the panel feet (cups), which have large, circular, support surfaces, makes the Roof Garden Panel able to resist a compressive load of more than 10,000 kg/m², allowing it, when dry, to stand up to heavy loads, such as small rubber-tyred loaders, mini-excavators. The panel feet distribute the load over the roof. The feet positioning, allows the panel to be cut to size using a disc grinder / cutter, in any direction and shape, without compromising its mechanical strength.

The panel feet (cups) create a water reservoir allowing the water stored to be a supply of the root system, allowing it to grow without problems.

BY CREATING A GREEN ROOF TOP GARDEN IT HAS BENEFITS TO THE EVER CHANGING CLIMATE BY INCREASING THE GREENING INFRASTRUCTURE AND MINIMISING CO₂ EMISSIONS.

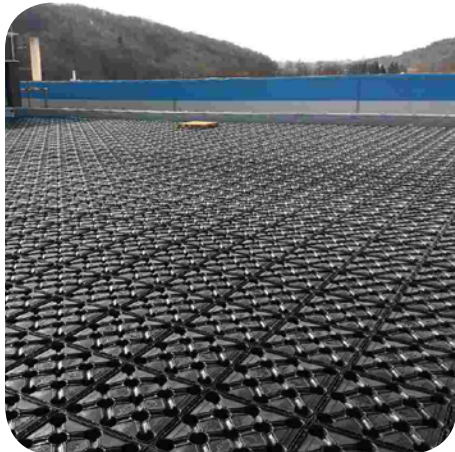


The roof garden panel, being made of plastic, has the ability not to alter over time whether attacked by mold and bacteria, or by chemical agents such as fertilisers.



Installation

- 1) Waterproof the floor and the perimeters of the structure.
- 2) Lay the pipes if there are water systems, lighting systems or other.
- 3) Lay the Roof Garden panels (see the assembly diagram below).
- 4) Fill the Roof Garden panels with suitable hygroscopic material (volcanic lapillus or pumice stone).
- 5) Lay the geotextile (non-woven fabric) on the whole surface, weighing not less than 200 gr / m².
Overlap the strips of geotextile of 10 cm and twist the same in the perimeters of the structure for a height equal to that of the finished package.
- 6) Lay the thickness soil according to the installation desired (intensive or extensive).

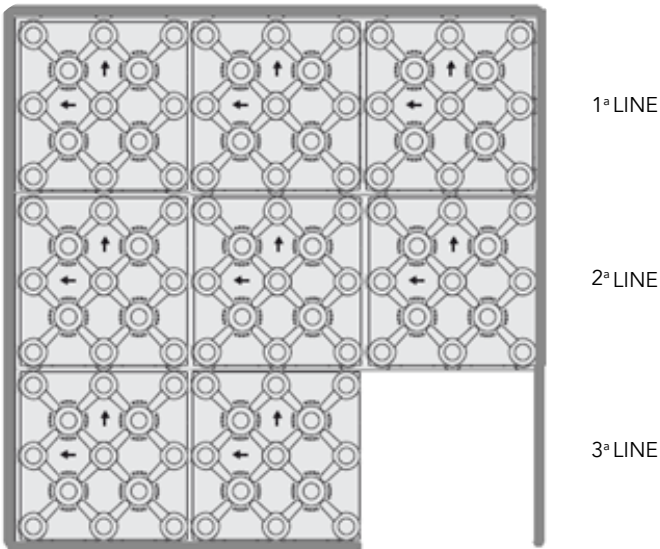


The roof garden panels are connected through special clips, which give stability and ability to adapt even on curved surfaces.

By combining the Roof Garden panel with the Garden grid Product, it is possible to hold the ground and operate on inclined roof surfaces of more than 15% but not to exceed-35% .

The holes that exist in the upper part of the panel, which is in contact with the geotextile, provide a high drainage of excess water to prevent flooding and preventing of the passage of roots.

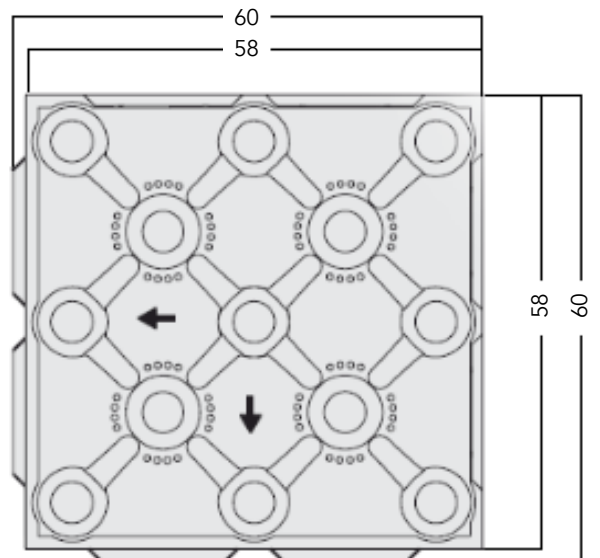
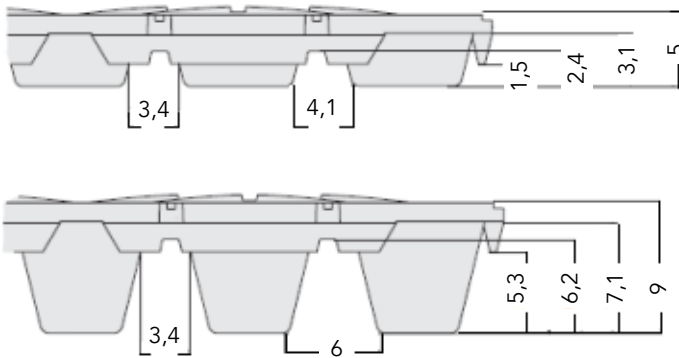
ASSEMBLY DIAGRAM



HOOKING SYSTEM



Technical Characteristics



		5 cm	9 cm
Pieces per m ²	/	3	3
Dimension panel	cm	58 x 58 x 5	58 x 58 x 9
Weight of panel	kg/m ²	3,10	3,40
Covered area for packaging	m ²	320	330
Pieces for packaging	/	960	990
Dimension of packaging	P x L x H (cm)	120 x 120 x 260	
Total surface of feet	(cm ² /m ²)	1240	609
Resistance to compression	(kg/m ²)	OVER 10.000	
Water reservoir (calculated in horizontal plane, for inclinations calculate maximum loss 10%)	lt/m ²	14	18
Filling the panel with volcanic lapilli or pumice	lt/m ²	14	18
	m ³ /m ²	0,014	0,018
Drainage capacity (with fabric non fabric + 20 cm of soil)	lt/m ² h	1.300	1.300

Note: The drainage capacity of system, with a Roof Garden panel 5 and 9 cm, has been calculated taking the drainage holes only into account. The Roof Garden panel conforms to the UNI 11235.



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