

A nighttime cityscape of Dubai, featuring the Burj Khalifa and other illuminated skyscrapers. In the foreground, two black, textured UNIFILL construction products are displayed. The product on the left is a large, fan-shaped piece with a central circular hole and several radial slots. The product on the right is a smaller, more complex piece with multiple lobes and a central circular hole. The background shows a dense urban environment with many lit-up buildings and a highway interchange with light trails from traffic.

UNIFILL

SHAPING THE FUTURE OF

SUSTAINABLE CONSTRUCTION

About Unifill

UNIFILL is an eco-friendly formwork system made from entirely recycled polypropylene, designed to fill voids in urban, industrial, and landscaping projects. This innovative system enables the construction of reinforced concrete raised floors up to 3 meters in height, making it ideal for applications like Filling solution, stepped surfaces, Auditorium & Theatre, stormwater & storage tanks, Pools area. Unifill stands out as an economical, dependable, and efficient solution, offering a rapid alternative to traditional void-fill materials such as gravel, aggregates, and polystyrene blocks.



Unifill Advantages



STACKABLE

Superior logistics 50 cm of conventional filling demands 50 trucks, while UNIFILL requires only 1.



LIGHTNESS

It's the lightest filling solution, with a cross-section weight nearly equal to the upper slab thickness.



HIGH LOAD BEARING

Numerous pillars, arches, and domes form a highly load-bearing structure.



VOID SPACE

The void beneath UNIFILL enables easy installation of electrical and mechanical systems, while also allowing ventilation to remove dampness and RADON GAS from the building.



FAST

Compared to traditional systems, it ensures installation times up to 80% faster than using conventional inert materials.



SAVINGS

The UNIFILL system offers cost savings in transport and installation compared to traditional systems.

Applications

RESIDENTIAL BUILDINGS	UNIFILL TANK
ACCESS RAMPS	LANDSCAPE AREAS
ROOTS APPLICATION	STEPPED SURFACES

Technical Chart Unifill

FORMWORK 58



FORMWORK 71



FORMWORK 58

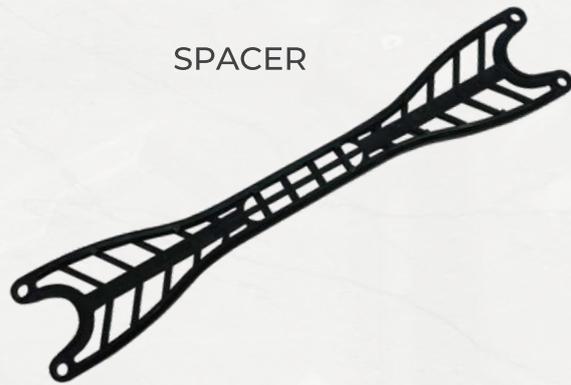
FORMWORK 71

Actual size (cm)	58 x 58 x 17	71 x 71 x 17
Material	Recycled Polypropylene	Recycled Polypropylene
Weight (kg)	1.78	2.5
Package size (cm)	120 x 120 x 2.4	80 x 150 x 240
No. pieces per pallet	360	240

BASE



SPACER



PIPE

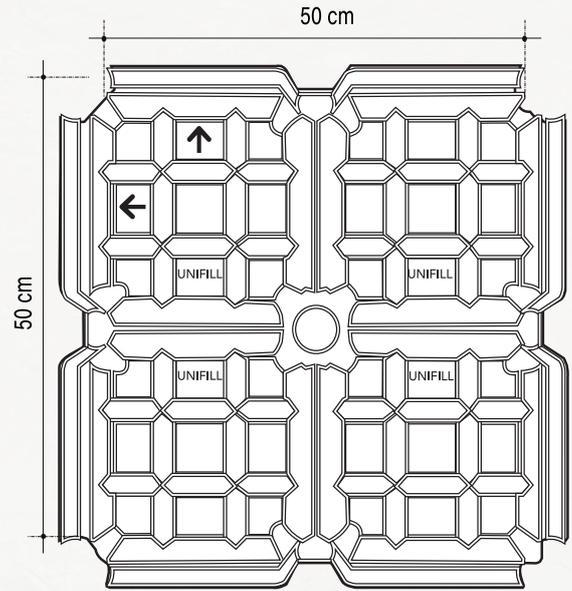
BOTTOM

SPACER

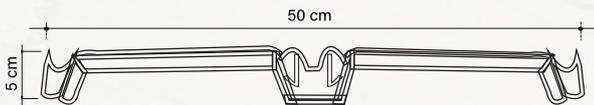
LISTEL

Actual size (cm)	5 - 300	24 X 24 X 37	38 X 7 X 13	8 x 10 x 100
Material	PVC	Recycled Polypropylene	Recycled Polypropylene	Polystyrene (PS)

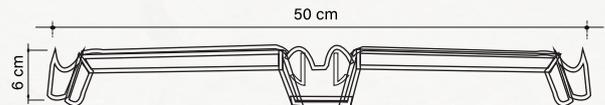
UNIFILL Micro-void Series (H5, H6, H8 & H10)



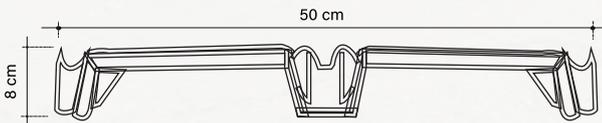
Unifill H5



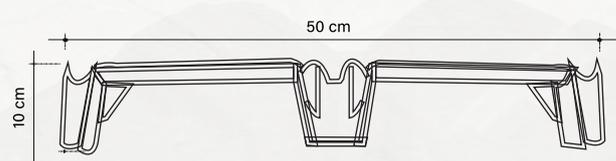
Unifill H6



Unifill H8



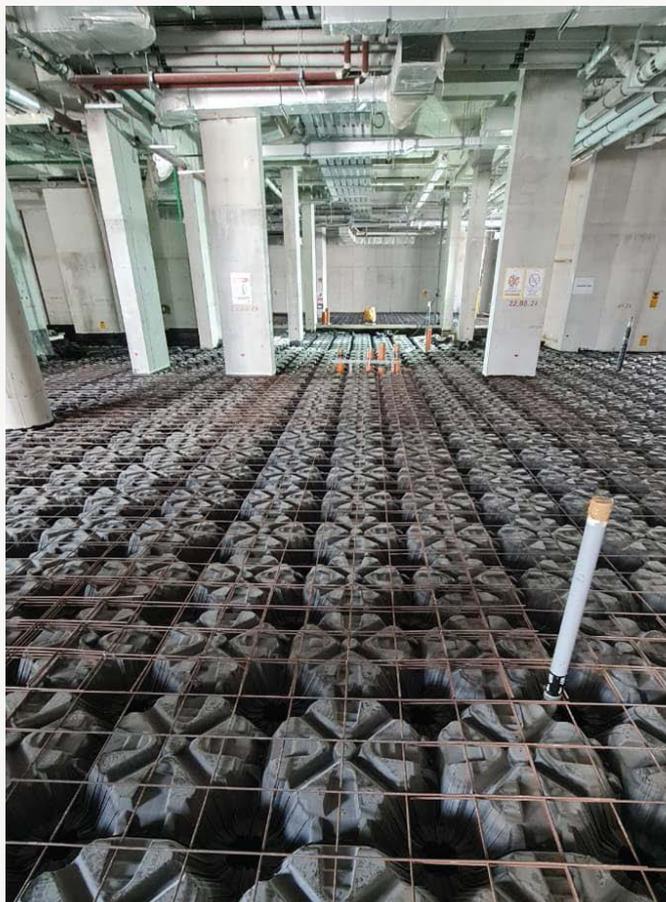
Unifill H10



Technical Data

	Units	Unifill H5	Unifill H6	Unifill H8	Unifill H10
Usable dimensions*	cm	50 x 50	50 x 50	50 x 50	50 x 50
Height*H	cm	5	6	8	10
Average unit weight	kg	0.715	0.76	0.77	0.81
Pallet dimensions	cm	120 x 120 x 230			
Sqm in each palette	m ² /Pallet	200	200	200	200
Number of pieces per pallet	Pcs/Pallet	800	800	800	800
Pallet weight	kg/Pallet	570	590	615	660
Concrete Consumption	m ³ m ²	0.006	0.007	0.010	0.013
Clearance under the Formwork	cm	4 x Ø25 mm	4 x Ø35 mm	3 x Ø55 mm	2 x Ø75 mm

* Recyclable material is allowed a size tolerance of ± 1,5%.





Installation of Unifill

The correct installation of UNIFILL system



1 BOTTOM & SPACER

Installing the bottom & spacer is crucial for maintaining the vertical alignment of the pipes and ensuring the structural integrity.



2 PIPES

Position the PVC pipes within the base bottom



3 FORMWORK

Install UNIFILL formwork from right to left, interlocking it with the pipes to ensure secure walkability.



4 UPPER MESH

The upper mesh should be placed directly on top of the formwork or, as required by the project, over spacers with proper overlapping



5 CONCRETE POUR

Concrete pouring begins once the mesh installation is complete. Pour the concrete gradually from one side to the other, ensuring proper vibration



6 POST CONCRETING

This step ensures the floor is fully prepared for final coatings, tiles, or any other finishing materials. achieve a uniform, balanced finish

Our Projects



The Groove | Al Sadiyat Island
United Arab Emirates



Sobha | One
United Arab Emirates



Sobha | S Tower
United Arab Emirates



Sobha | The Crest
United Arab Emirates



Sobha | Creek Vistas Grande
United Arab Emirates

Our Projects



Norville Project
Kingdom of Saudi Arabia



Arada | Tiraz 8-1 Project
United Arab Emirates



Sobha Verde
United Arab Emirates



Sobha | Crest Grande
United Arab Emirates



Pixels
Kuwait

Our Projects



Sobha Estates Project
United Arab Emirates



Sobha Riverside Crescent
United Arab Emirates



Reportage Properties | Alexis Tower
United Arab Emirates



Sobha Skyscape
United Arab Emirates

Let's work together for more sustainable future..

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