Product Information & Specifications

PureRain Products

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STORM WATER

INFILTRATION

WASTE WATER

RESIDENTIAL AREAS

COMMERCIAL PLAZAS

PARKING LOTS

DRIVEWAYS

AIRPORT RUNWAYS

SPORTS FIELDS

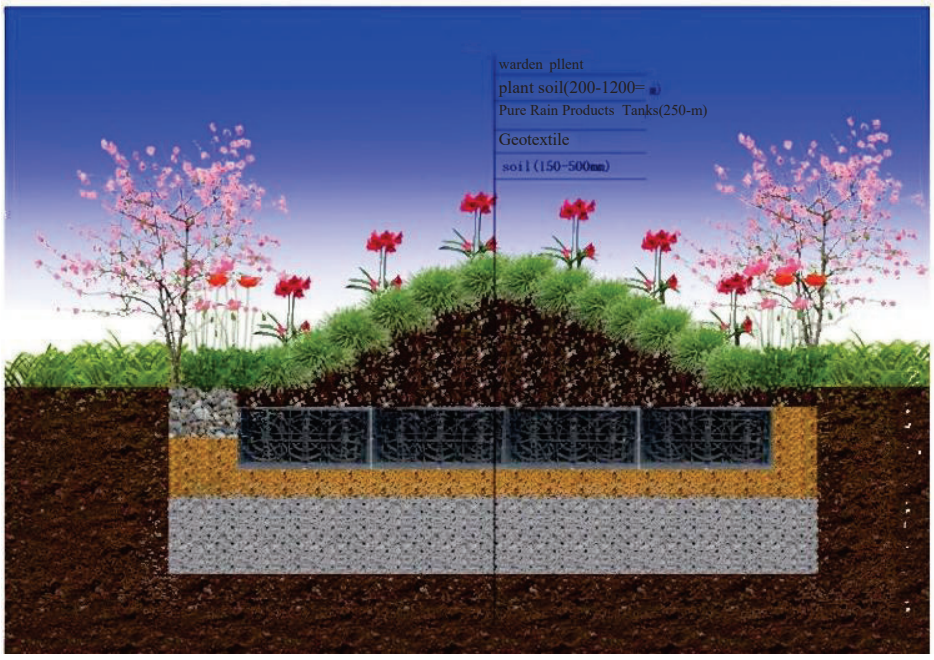
PLAYGROUNDS AND GARDENS

Pure Rain Products
GEO-CELLULAR BLOCK

PR-TANKS

Stormwater management/rainwater system

1-Roof garden,
2-Roof flowerpot
3-Greening wall
4-Raiwater catch basin
5-Automatic discharging device
6-Automatic Filter device
7-Sewerage discharging basin
8-Recovery basin
9-PP infiltration tank
10-Geo membrance
11-Silty Sandy Clay
12-Back-purge system
13-Recovery system
14-Irrigation system
15-Infiltration collect
16-Sewerage discharging system
17-Equipment foundation
18-Total discharging quantity monitoring.

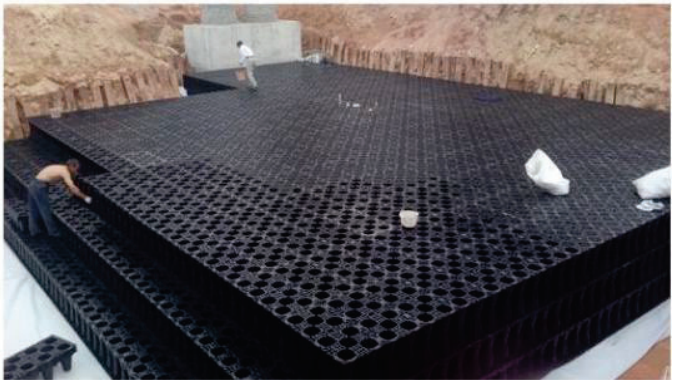


1.Grow plants-planting soil(200~1200mm)
2.infiltration tank(250mm)
3.permeable geotextile-soil replacement layer(150~500mm)
4.natural aggregate(200~300mm)
5.anti permeable geotextile
6.rammed earth(compactness>95%).

PR-TANKS

Why is Rainwater Infiltration Such A Good Idea

Water is one of those natural resources that have no substitute.In some conuntries conditions with regard to access to water, annual amount of precipitation,very large fluctuations in temperature and amount of rainfall are significantly worse than in other countries.Inland fresh surface waters(rivers,lakes,estuaries,ponds and artificial water reservoirs)constitute approx 2.5%of the country's area.Fluctuating climate conditions and weather anomalies cause an excess of water during heavy storms or snow meltdowns,and water deficits during periods of drought.



How it works!

The system is designed to capture surface water through infiltration,and then clean and filter the water before it is allowed to recharge the water table providing moisture for surrounding vegetation.The PR Filtraion Unit also captures and cleans roof water before entry into the storage area.

Advantage:

1.High compressive strength allows use under trafficable area.
2.Interlock vertically and horizontally giving maximum stability.
3.Less costly than bio-swales,retention ponds,concrete and metal storage systems.
5.Easy assembly of panels or modules and installation of units /no surface water storage hazards.
6.Allow storm water to be stored and re-used for irrigation.
7.With infiltration system installed under a car parking lot or airport runway etc.
8.With infiltration system and the completed rain greening garden purpose.

9.With infiltration system used in flooding flow trench application purpose.

DR-TANKS

PureRain Products MODERNIZED & PROFESSIONAL TESTING LABORATORY AND TEAM

PureRain Products **the most advanced & modernized laboratory equipments, professional lab testing team and personnel and strict-follow**

QA/QC quality control process ensure the life and quality of our products.

Quality Control

Pressure test equipment belongs the first company with large tonnage qualification

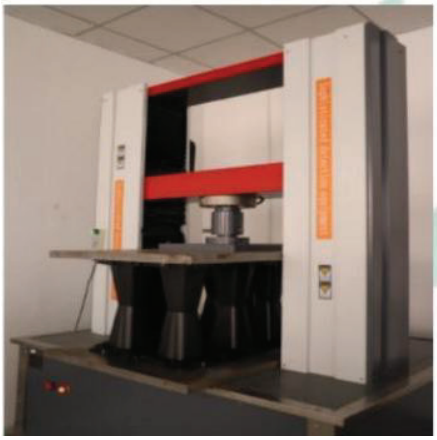
Impact Resistance Test

Tensile test

Liquidity test

Flame retardant test

Volatilize test



In conclusion,our products have also fully conducted testing,and passed &satisfied the comprehensive performance requirements via international labs Intertek and SGS.

PRINCIPLE

We Pure Rain Products always keep principle "Customer First,Quality First,Quality Service",we sincerely welcome friends at domestic and abroad to **cooperate with us for a mutual benefit long-term relationship.**

VISION,MISSION AND OBJECTIVE

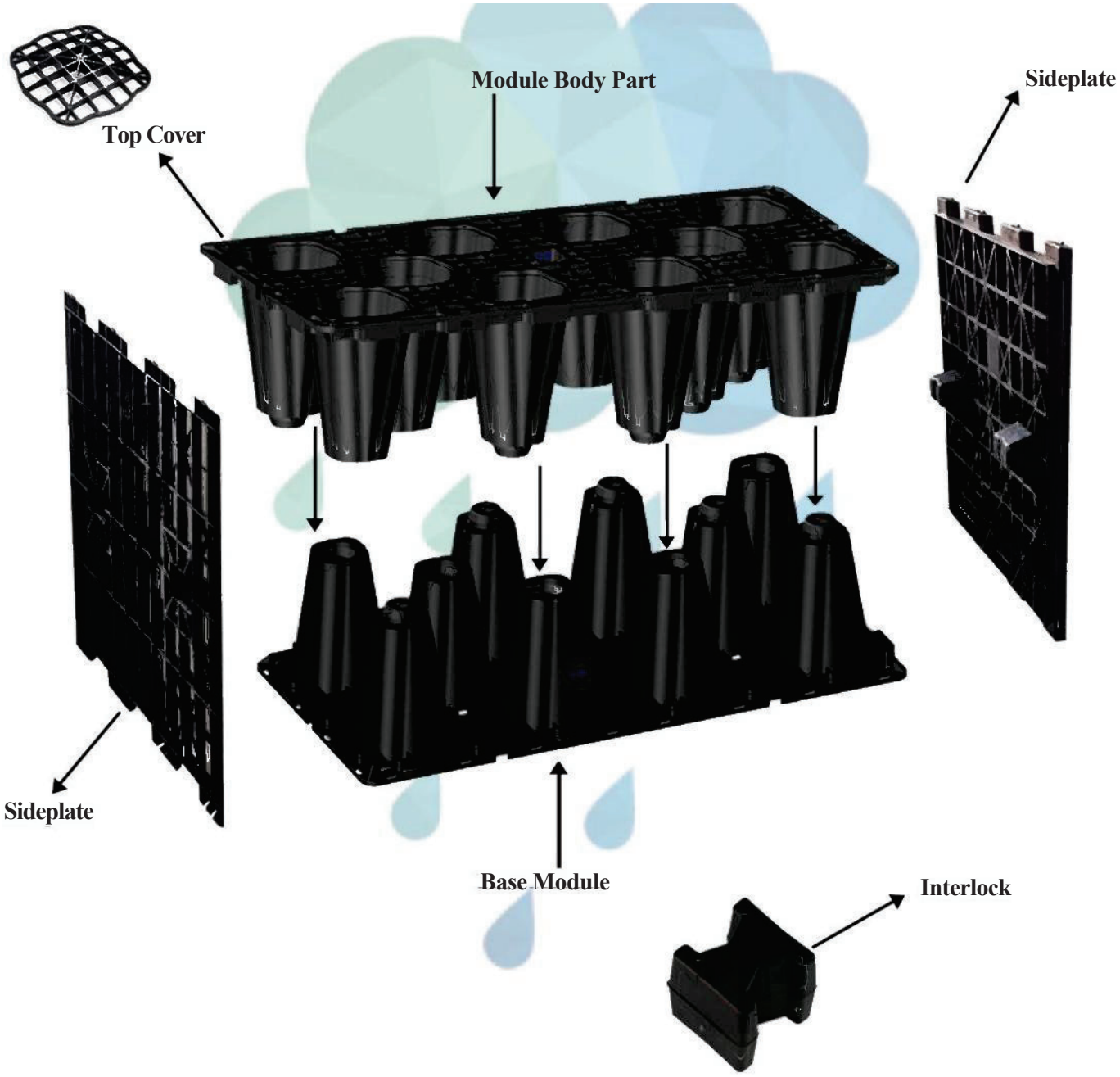
We Pure Rain Products(Xiamen)Technology Co.,Ltd aims to be world class,committed to customer satisfaction and to encourage the spirit of leadership **amongst our dedicated team by creating a healthy environment for continuous growth,profit and prosperity.Therefore we would like to**

cooperative with the valued companies with our whole industrial chain resources of Planning,Design,R&D,Manufacturing &Production,

QA&QC,Sales,Construction and maintenance etc for above-mentioned greening products and solutions to achieve the goal mutual creation, mutual progress,mutual benefit and mutual sharing.The specific operation and cooperation methods/details could be determined after fully communicated and discussed better.

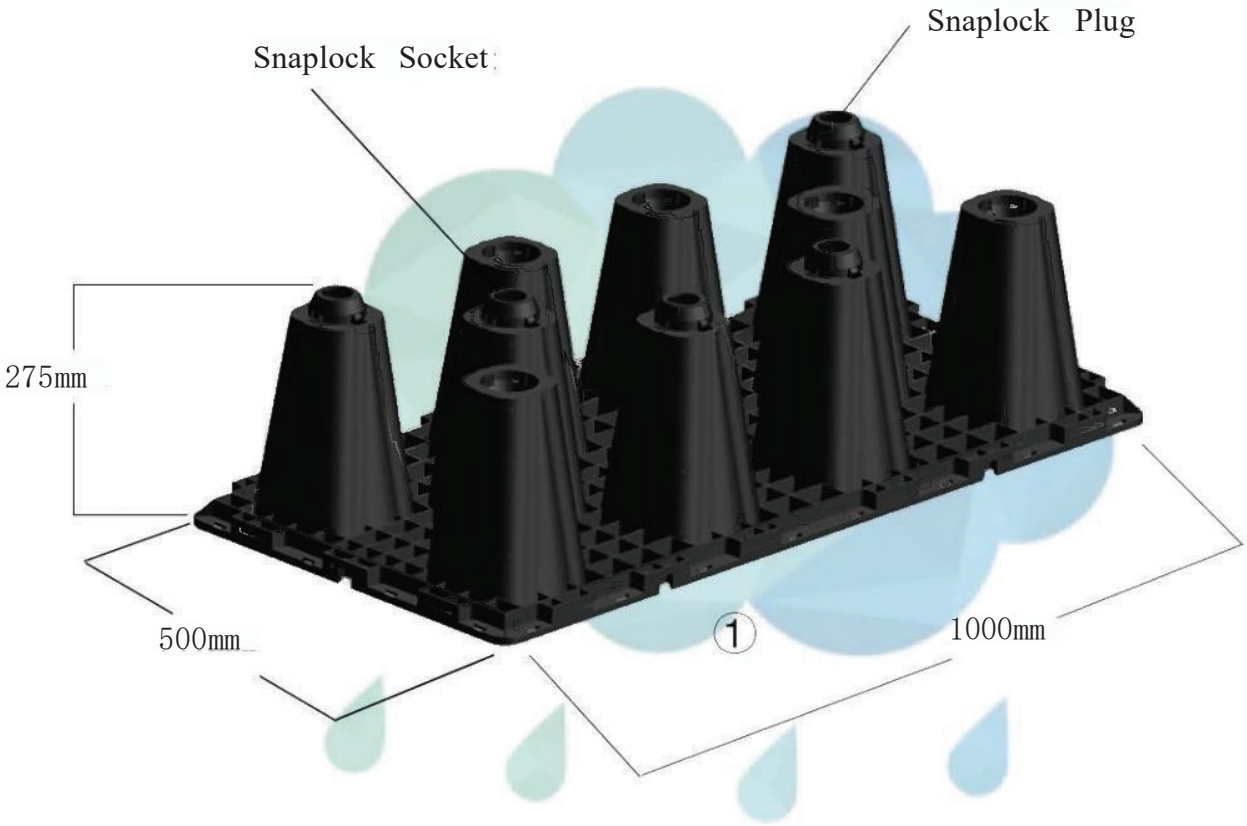
PR-TANKS

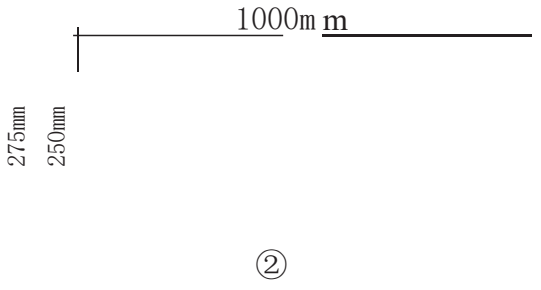
Pure Rain Products Geo-cellular HALF MODULE ONEWAY Snap Fixing System



PR-TANKS

Pure Rain Products Geo-cellular HALF MODULE Cross Section





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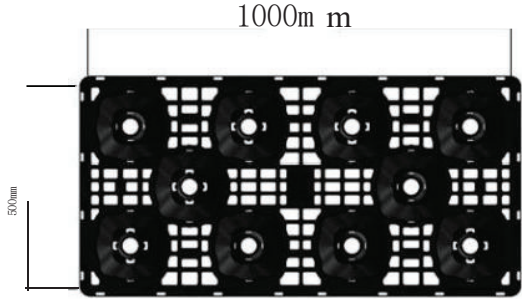

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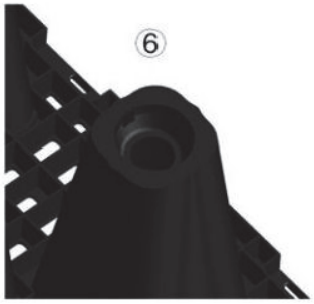
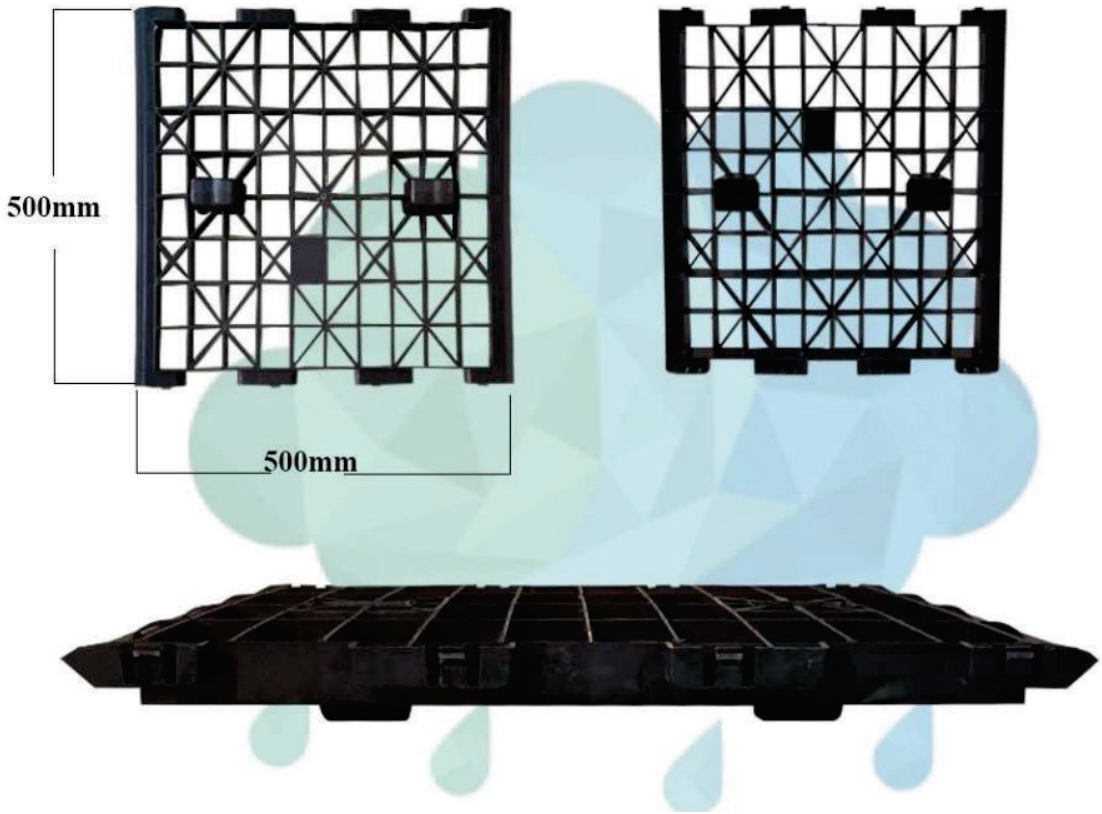


PR-TANKS

Pure Rain Products Geo-cellular Small Sideplate/Interlock



PR-TANKS

Pure Rain Products Storm tank
PR-1050

Pure Rain Products standard duty plastic gecellular surface water management system.It has been designed primarily for use in applications

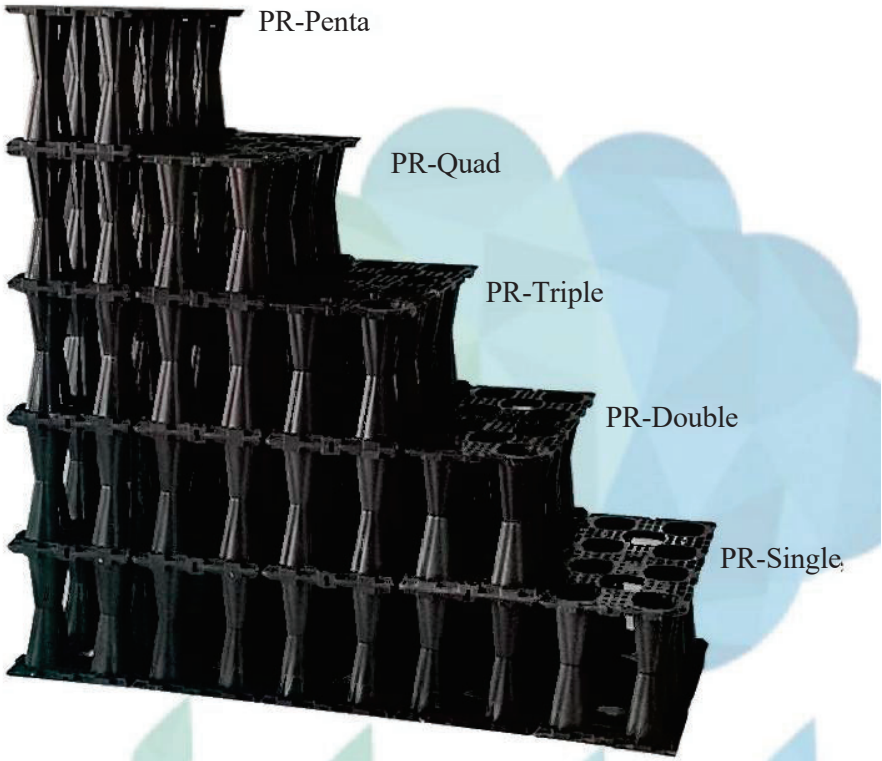
where inspectability is required,and is suitable for use in all applications from landscaped areas to heavily trafficked areas

Features and benefits

1.4 half bodies per cubic metre
2.Functional design combined with an intelligent snap-lock system make for easy handling and rapid installation
3.High void ratio of 97%of total volume available for storage
4.Height of 1 layer is 500mm
5.Min.cover depth (0.5m-landscaped/0.6m-car park)
6.side panels are used on the outer walls of the structure to enable geotextiles and geomembranes to be installed
7.Small openings at the base of the pillars allow water to fill and drain.This allows the pillars to form part of the storage volume.

PR-TANKS

Pure Rain Products Geo-cellular Dimension Chart



Tank Units	size in feet	size in Inches	Size in Millimetres
PR-Single Tank	19.70'x 39.40'x 19.70'	19.68"x 39.37"x 19.68"	500mm x 1000mm x 500mm
PR-Double Tank	39.40' x 39.40' x 39.40'	39.37" x 39.37" x 39.37"	1000mm x 1000mm x 1000mm
PR-Triple Tank	59.10'x 39.40'x 59.10'	59.05"x 39.37" x 59.05"	1500mm x 1000mm x 1500mm
PR-Quad Tank	78.80'x 39.40'x 78.80'	78.74"x 39.37"x 78.74"	2000mm x 1000mm x 2000mm
PR-Penta Tank	98.50'x 39.40'x 98.50'	98.42"x 39.37"x 98.42"	2500mm x 1000mm x 2500mm

Tank Units	Tank Volume Cubic Feet	Tank Volume Gallons	97%Water Storage Volume Gallons	97%Water Storage Volume Gallons
PR-Single Tank	8.828	66.050	8.563	64.069
PR-Double Tank	35.310	264.200	34.251	256.274
PR-Triple Tank	79.448	594.450	77.065	576.617
PR-Quad Tank	141.240	1056.800	137.003	1025.096
PR-Penta Tank	220.688	1651.250	214.067	1601.713

Conversions:	1 cubic feet=7.4805 gallons	1 cubic meter=35.31 cubic feet=264.2gallons
	1 liter=0.2642 gallon	meter=3.2808 feet
	1 millimeter=0.0394 inch	1 square meter=10.7639 square fee

PR-TANKS

Pure Rain Products Geo-cellular Technical Data Sheet

TANK UNITS	TANK VOLUME M3
PR-SINGLE TANK	0.125
PR-DOUBLE TANK	0.250
PR-TRIPLE TANK	0.375
PR-QUAD TANK	0.500
PR-PENTA TANK	0.626

Test (with sideplate)	Metric
Compressive Strength Vertical	⩾30.00(Tons/m²)
Compressive Strength Lateral	⩾12.00(Tons/m²)

Benefit:

1. On-site infiltration and retention of stormwater.
2. Recycle Material
3. High void surface ratio for quicker infltration≥95%
4. At source treatment of stormwater.
5. Temporary storage of water for reuse.
6. Water infiltration into and re-charging of sub-soil.
7. Improved drainage of landscaped areas.
8. Mitigation of downstream flooding.
9. Low cost compared to conventional systems.
10. Reduced waterlogging enhances plant growth.
11. Cost effective alternative to landscaped bio-swales and retention ponds
12. Optimum site utilisation.

Tank Units	Total Volume Cubic Feet	Total Volume Litre	Tank Volume Gallons	95%Water Storage Volume Cubic Feet	95%Water Storage Volume Litre	95%Water Storage Volume Gallons
PR-Single Tank	4.42	125.10	33.05	4.20	118.85	31.40
PR-Double Tank	8.84	250.20	66.10	8.39	237.69	62.79
PR-Triple Tank	13.25	375.31	99.15	12.59	356.54	94.19
PR-Quad Tank	17.67	500.41	132.19	16.79	475.39	125.58
PR-Penta Tank	22.09	625.51	165.24	20.99	594.23	156.98

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PR-TANKS

Pure Rain Products Geo-cellular Technical Data Sheet-Fixing&Assembly

SINGLE MODULE ASSEMBLY

STEP 1

Place the Base Module

STEP 2

Place and align the top module with ONE WAY Snap Plug & Socket of the Bottom module

STEP 3

After placing the top module apply hand pressure on top of the module for Clicking SNAP locking

DOUBLE MODULE ASSEMBLY

STEP 1

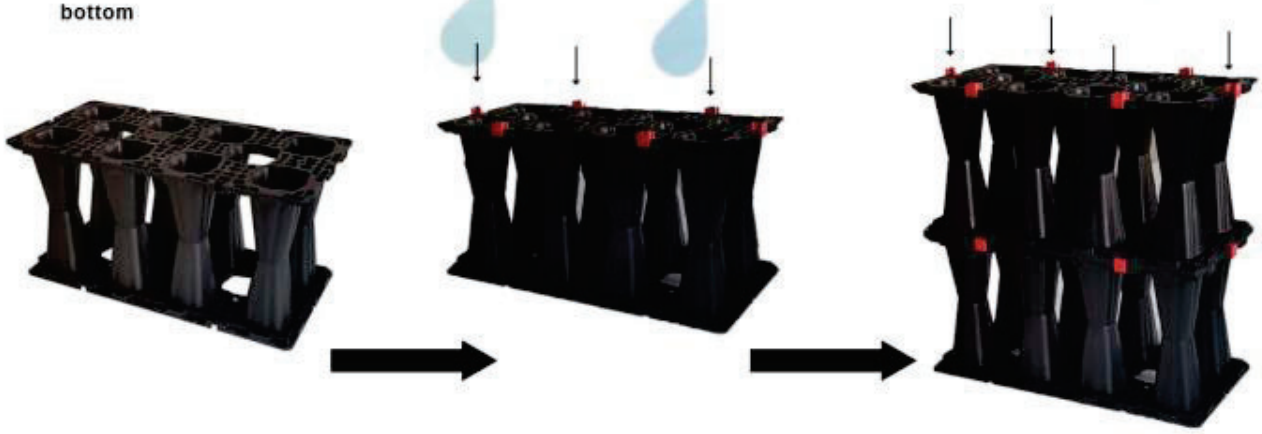
Install a single PR tank at bottom

STEP 2

Place 6pcs interlock

STEP 3

Place and align another single PR tank on top



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PR-TANKS

Pure Rain Products Geo-cellular Technical Data Sheet- Fixing&Assembly

MULTIPLE MODULE ASSEMBLY

STEP 1

Join another double tank using double block connector as side assembly

STEP 2

Installation Of Different Height Tanks

PR-TANKS

PR TANK MODULE ASSEMBLY

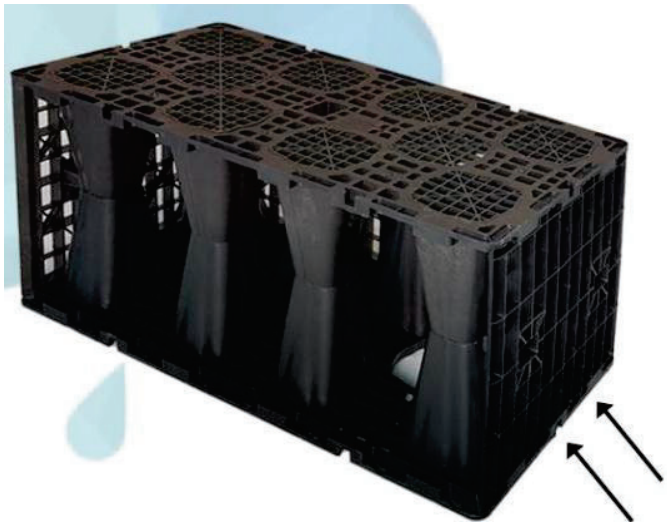
SIDEPLATE ASSEMBLY FOR EXTERNAL PERIPHERY OF THE STUCTURE - (ONLY IN PERIMETERY OF BACKFILL AREAS)

STEP 1

Place and align the Sideplate

STEP 2

Place and align the Other Sideplate



STEP 3

Place and align the Large Sideplate(1 Large Sideplate=2pes Sideplate)

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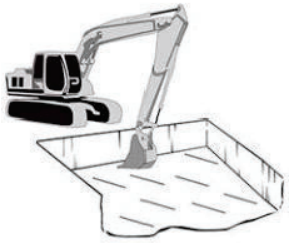
PR-TANKS

Pure Rain Products Geo-cellular Installation instructions for construction site

一、Preparation

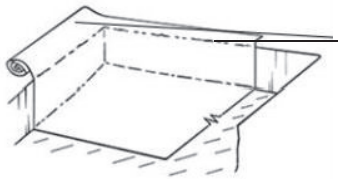


1.1 Excavate trench.Every edge width larger than the TANK size 500-1000mm

1.2 Level the ground,clean the area and compact the area beneath

1.3 Screed the surface,remove all stones,lumps ,debris and sharp objects

二、Geotextile Preparation (If requested by Designer)

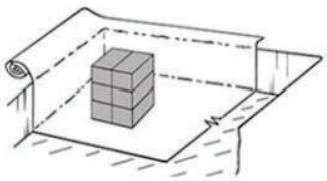


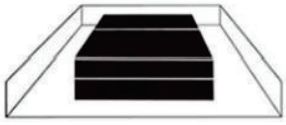
Geotextile or geomembrane

2.1 Lay Geotextile in bottom and on sides of trench.

2.2 Reserved 12 in.seam overlaps enough fabric to fully cover TANK

三、Installation





3.1 Follow assembly instructions for specified size of tank

3.2 Lay out first row of individual tanks of the application area

3.3 Position subsequent rows of individual Tanks perpendicular to the first row

3.4 Insert the Interlock evenly.

3.5 Check to see that all Module Body Parts are connected securely and fully. Multiples connected to each other.

3.6 Make sure there are no gaps between installed Tanks -abut to one another as tightly as possible

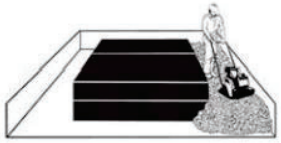
3.7 Observation Well,Inlet/Outlet Pipe Installation and Connection(If requested by designer)

3.8 Insert the Size Plate and Top Cover evenly.Tops of Tanks must be level with no uneven plates,Tanks do not "rock"

3.9 Wrap Geotextile fabric around the Tanks &secure with HDPE tape

3.10 Secure Geotextile fabric overlapped joints to prevent sand/fill from entering Tank during backfill operation

四、Backfill



4.1 Drop specified backfill material around the perimeter of the Tank

4.2 Compact backfill per plan using compaction plate on opposite sides of the tank at the same time

4.3 Place 2 in.clean sand on the top of tank and Compact sand with low pressure

4.4 Drop specified backfill material on the top of tanks

4.5 Install all remaining backfill as described above or as specified by Designer

NOTE:Secure the area of application with barriers/ropes during the entire scope of work.

Prohibit all vehicular traffic.

We DOES NOT accept liability for incorrect installation.

PR-TANKS

Pure Rain Products Geo-cellular
Accessory picture

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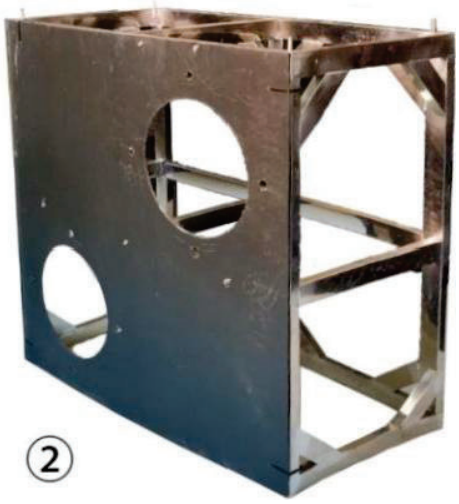
PP Pipe



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SS Frame

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Corrugated pipe

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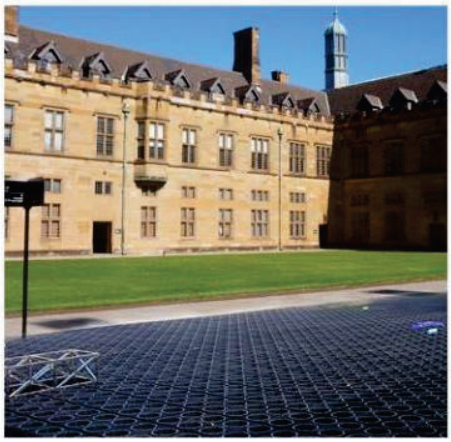
Pure Rain Products Geo-cellular Project Cases Study



PR-TANKS

Pure Rain Products Geo-cellular
Construction site

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RAINWATER COLLECTION SYSTEM

Pure Rain Products

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