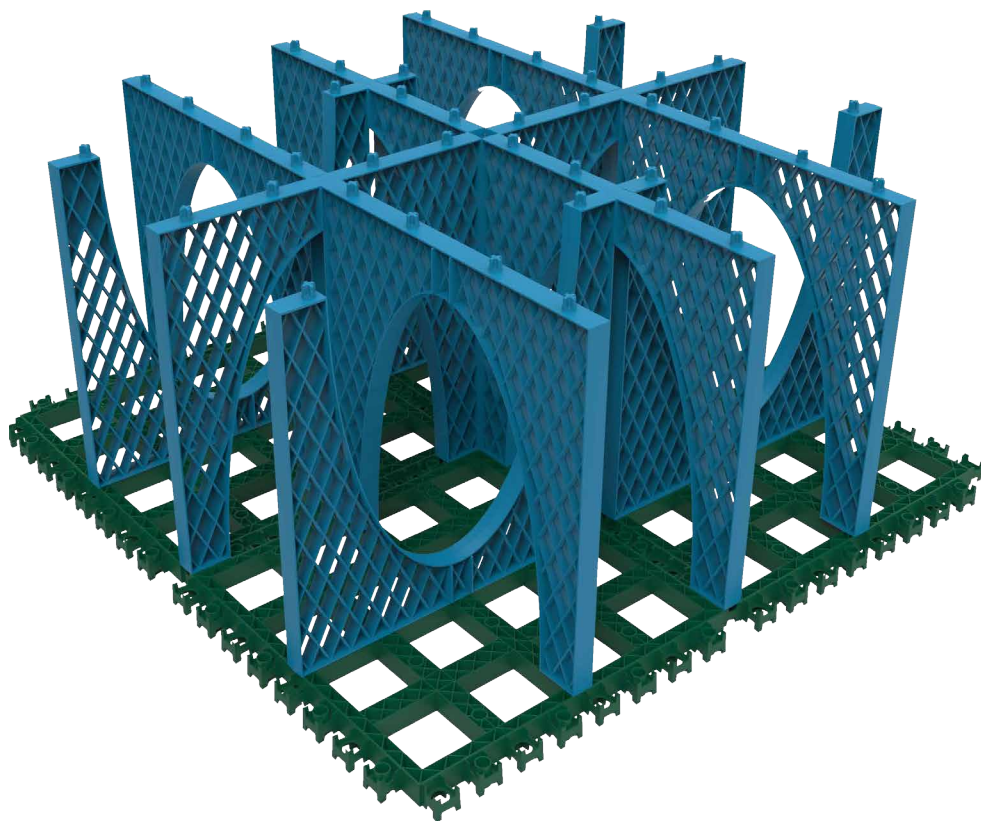


# iglube<sup>®</sup>

## iglube<sup>®</sup> turns the arch on its head!

The only modular system that combines:

- 95% effective storage
- All round strength
- Fully flushable



[www.iglube.com.au](http://www.iglube.com.au)

# Good design speaks for itself, it makes sense immediately.

Exceptional design is the exception. “iglube” takes engineered design to a new level, combining form and function to create the next generation structural module.

iglube is a unique, patented, modular building system with a broad range of applications in civil and landscape construction. iglube combines the dome shape of the igloo with the modular nature of the cube, hence igloo + cube = iglube.

iglube is an ingenious system of interlocking engineered plastic panels that combine to form high-strength modules. The system is designed so it can be installed either as a continuous, interconnecting system or as independent modules.

Opposing arches are the unique, patented feature that provide the highest strength possible with the most open internal structure. The arch shape, invented by the Romans, is the most efficient shape for load support, but the idea of opposing arches is completely new and novel. The simple and elegant design makes assembly and installation a breeze, even for unskilled labour.

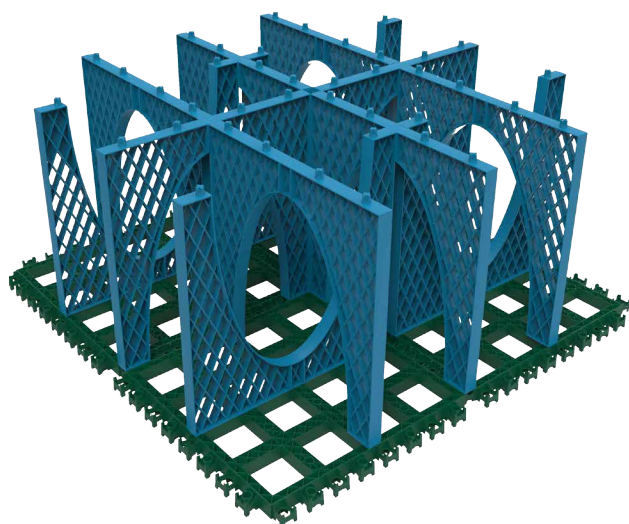
The lightweight arches allow projects of any size and shape to be quickly installed, even on the most difficult sites. Side panels lock into the base plates to complete the module. Dovetailed connectors in the base and robust pin connections in the panels provide the strongest positive connection.

iglube is tested for use under pavements subject to heavy vehicle traffic.

As the strongest modular system on the market for its weight, iglube provides real cost savings over competitor systems.

Manufactured from recycled polypropylene plastic, iglube turns a waste stream into a valuable engineered product.

iglube is proudly Australian designed and owned.



**OPPOSING ARCHES**



**OPTIONAL ARCH ARRANGEMENT TO FORM  
OPEN FLUSH PATH**





# Stormwater Management

**The strong, interconnecting iglube modules are used for stormwater soak pits, general stormwater detention and also rainwater harvesting.**

The open internal structure allows free flow of water and easy flush-out for system maintenance. With 95% open volume, water storage is maximised (Unlike “cone” and “column” systems which reduce storage volume by up to 50%).

For use as a soak pit, simply wrap the modules in non-woven DUX geotextile. Stormwater is piped into the modules and rapidly soaks out into surrounding permeable sandy soil.

For stormwater detention and rainwater harvesting additionally wrap the modules in geomembrane.



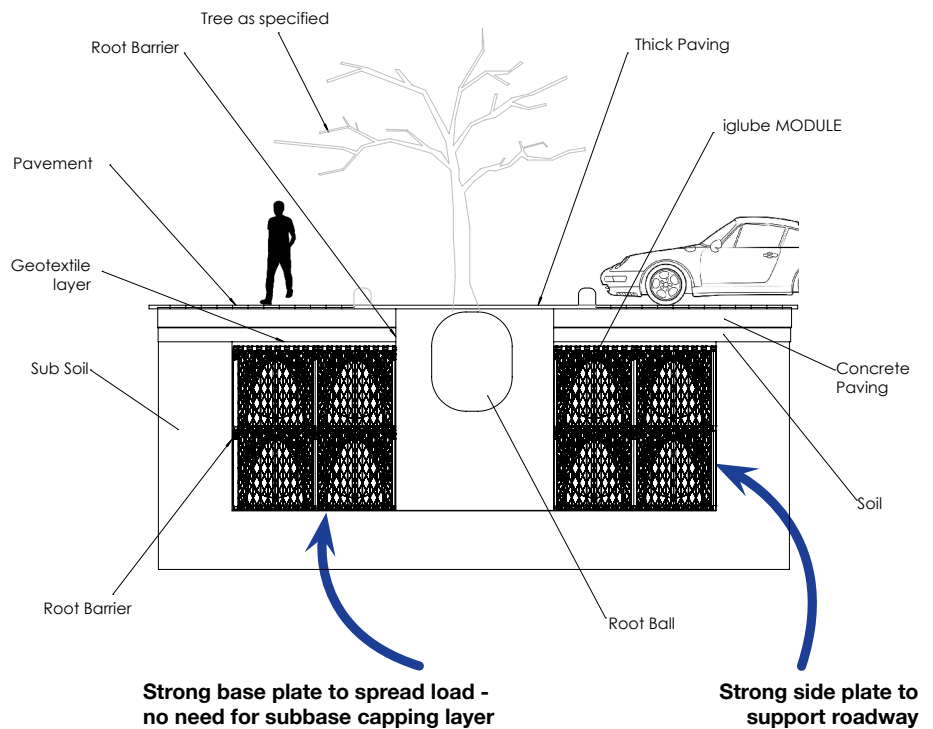
# iglube® SOIL CELL

## iglube® modules are used for structural soil support around new tree installations.

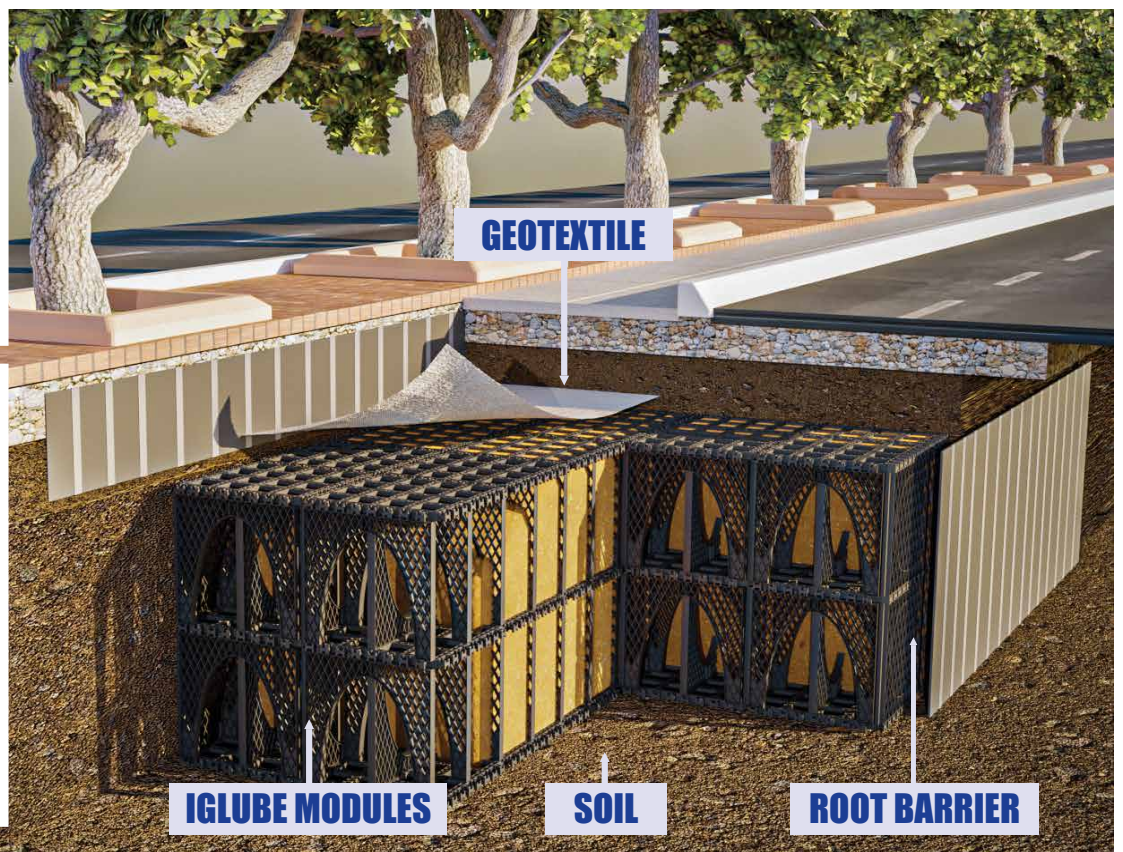
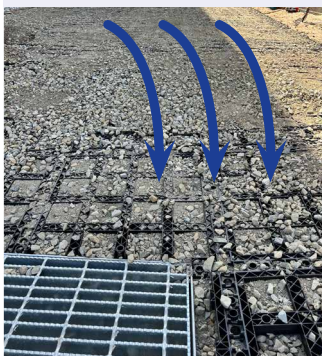
The modules are filled with soil and the open internal structure permits the free spread of tree roots and prevent pavement uplift.

iglube modules replace traditional structural soil, which is expensive, heavy and difficult to install.

iglube provides the structural support, replacing the aggregate and allowing full use of organic soils to improve growth.

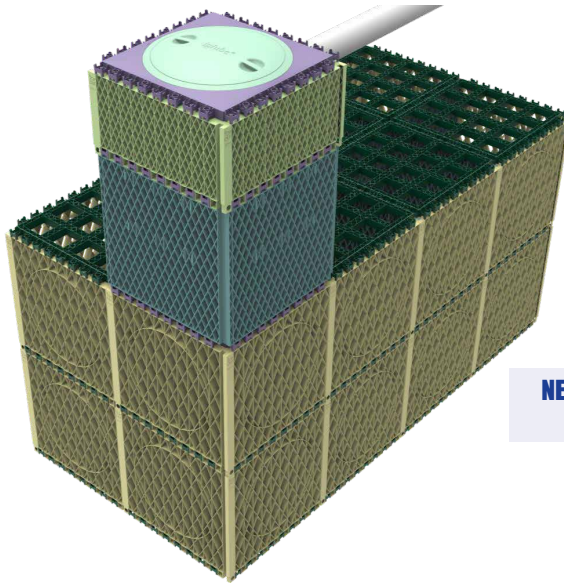


**OPEN TOP TO ALLOW EASY FILLING WITH SOIL**

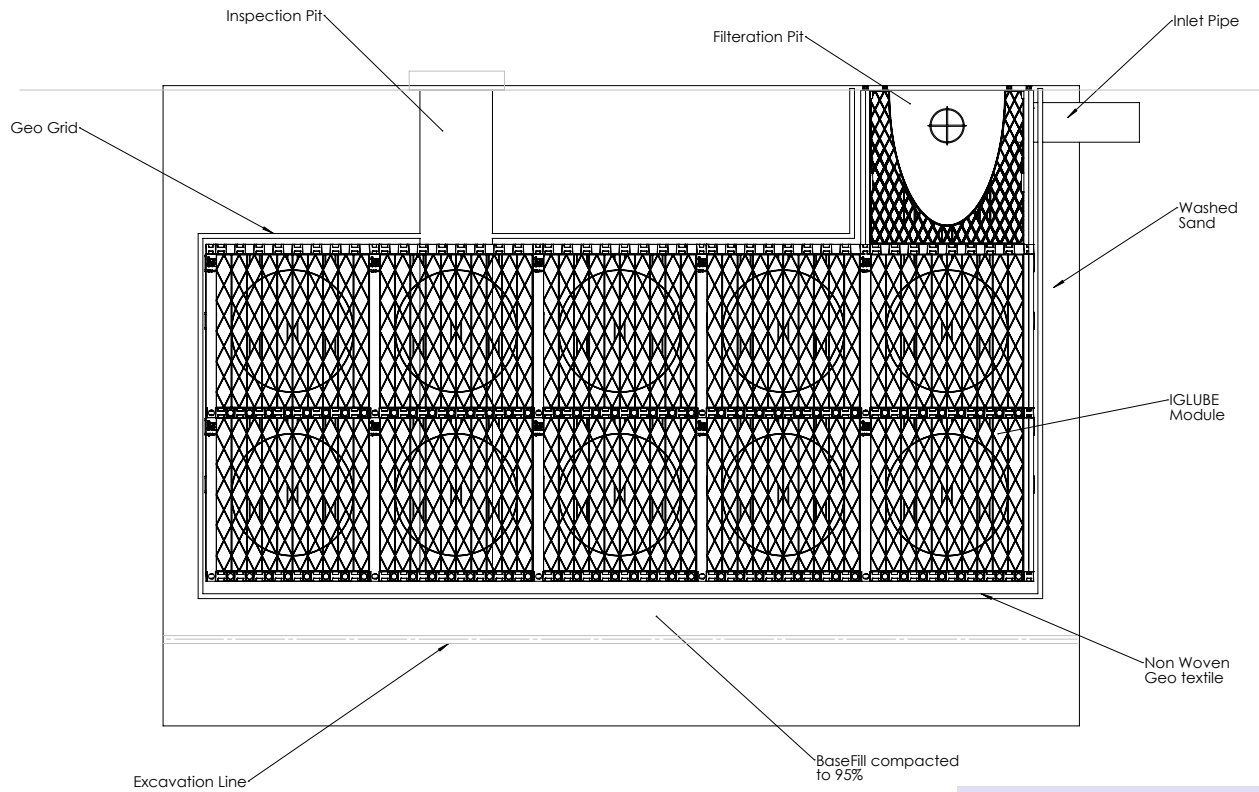
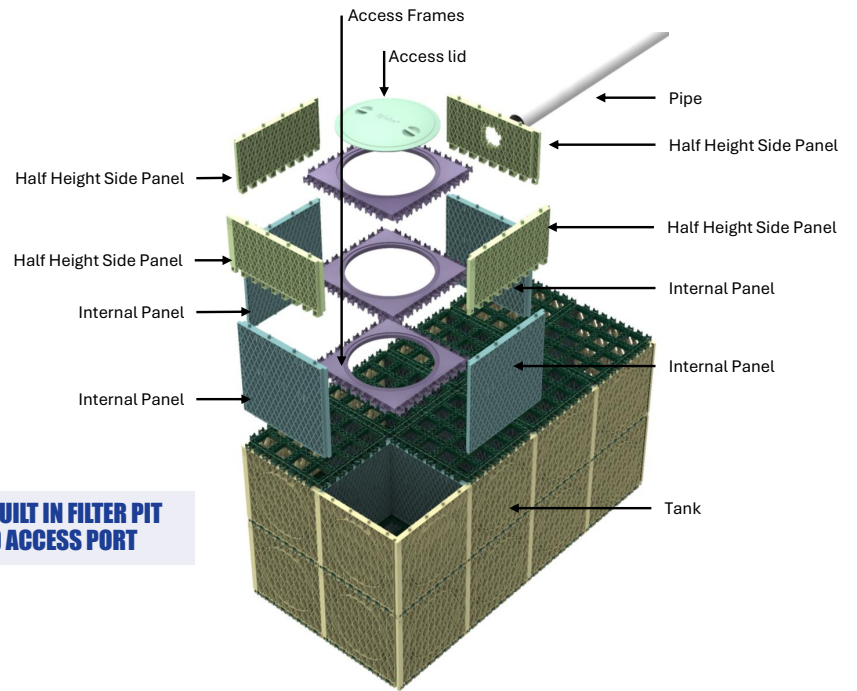




## ACCESS PORT WITH EXTENSION



### NEW BUILT IN FILTER PIT AND ACCESS PORT



**CAD DRAWINGS AVAILABLE**



**MAXIMUM CRUSH STRENGTH  
OVER 32 TONNE/SQM  
EQUIVALENT TO TWO ASIAN  
ELEPHANTS PER MODULE**



**STRUCTURAL TESTING AT  
UNIVERSITY OF MELBOURNE**



**HALF HEIGHT MODULE.  
IDEAL FOR PROJECTS WITH  
LIMITED COVER**

# iglube®

<b>Size Metric</b>	(W) 540mm x (L) 540mm x (H) 540mm
<b>Interconnected Size</b>	(W) 510mm x (L) 510mm x (H) 510mm
<b>Size Imperial</b>	(W) 21.26" x (L) 21.26" x (H) 21.26"
<b>Gross Volume</b>	157L ( 5.54 cu.ft)
<b>Storage Capacity</b>	150L ( 5.29 cu.ft) (95% Effective Storage)
<b>Modules per cm (35.31 cu ft)</b>	6.67
<b>Ultimate Crush Strength</b>	> 24 tonne/sqm (34psi) unconfined > 32 tonne/sqm (44psi) confined
<b>Material</b>	85% polypropylene, 15% propriety mix
<b>Proprietary materials</b>	Colour Black
<b>Chemical and Biological Resistance</b>	Unaffected by moulds and algae, soil-borne chemicals, bacteria and bitumen
<b>Service Temperature</b>	-30°C to 120°C (-22°F to 248°F)
<b>Estimated Material Life Expectancy</b>	100 years+ (Note: assuming below ground installations and no exposure to U.V. light)



Module (units)	Tank Volume (L)	Water Storage Volume (L)	Water Storage Volume (gal)	Number of Plates Standard Module (B/A/S)	Tank Weight (kg)	Width (mm)	Length (mm)	Height (mm)
Half (½)	87	83	21.90	2/2/4	2.50	540	540	300
Single (1)	157	150	39.60	2/2/4	2.73	540	540	540
Double (2)	306	290	76.60	3/4/8	4.28	540	540	1050
Triple (3)	455	432	114.12	4/6/12	5.84	540	540	1560
Quad (4)	603	573	151.37	5/8/16	7.39	540	540	2070
Penta (5)	752	715	188.88	6/10/20	8.95	540	540	2580

Contact us on 1300 069 394 or visit our website [www.iglube.com.au](http://www.iglube.com.au) for full technical information and design assistance. Extensive CAD design drawings are available on request.

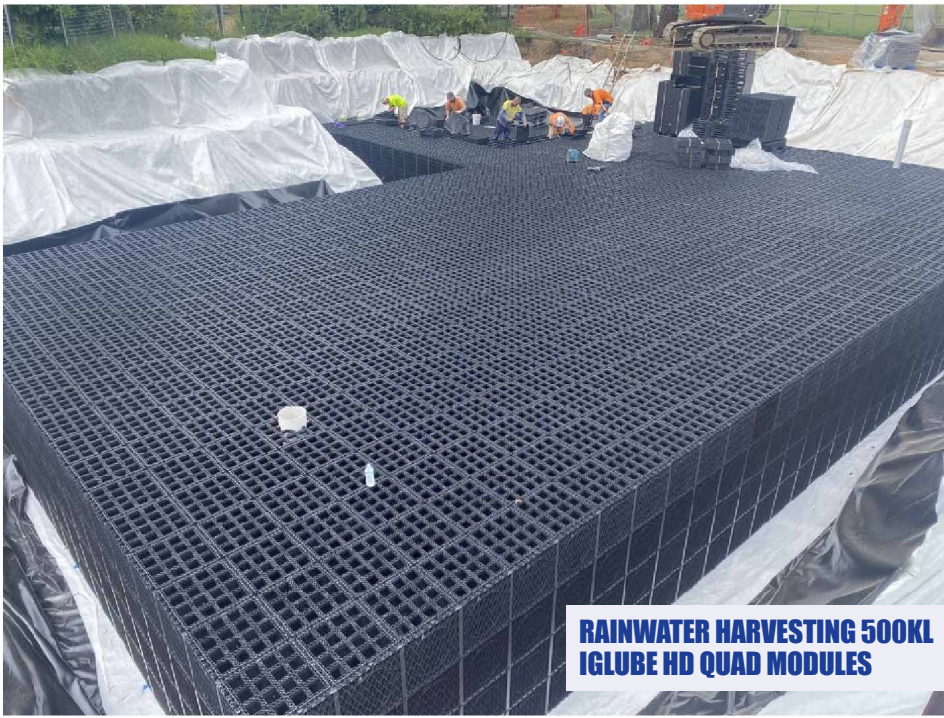
Issue: 02, Date: 1/11/25. Product properties subject to change without notice.

**Note:** All iglube products and systems are design registered or design registration pending. All iglube products are worldwide patent pending.

**Safety Factors:** Engineers, designers and geotechnical engineers should design and calculate safety factors to a serviceable limited state to suit the specific project. In case of doubt consult your nearest distributor or representative.

**Disclaimer:** All information provided in this publication is correct to the best knowledge of the company and is given in good faith, This information is intended only as a general guide, no responsibility can be accepted for any errors, omissions or incorrect assumptions. As each project is unique, and as the company and its distributors and agents worldwide have no direct control over the methods employed by the user in specifying, installing or supervising of its products hence no responsibility is accepted by the manufacturer and its distributors and agents worldwide. Users should satisfy themselves as to the suitability of the product for their purpose.





**RAINWATER HARVESTING 500KL  
IGLUBE HD QUAD MODULES**



**SOAK PIT, 64CM  
IGLUBE DOUBLE MODULES**



**OSD 235cm  
IGLUBE HD DOUBLE MODULES**



**BUILT-IN FILTER PIT**

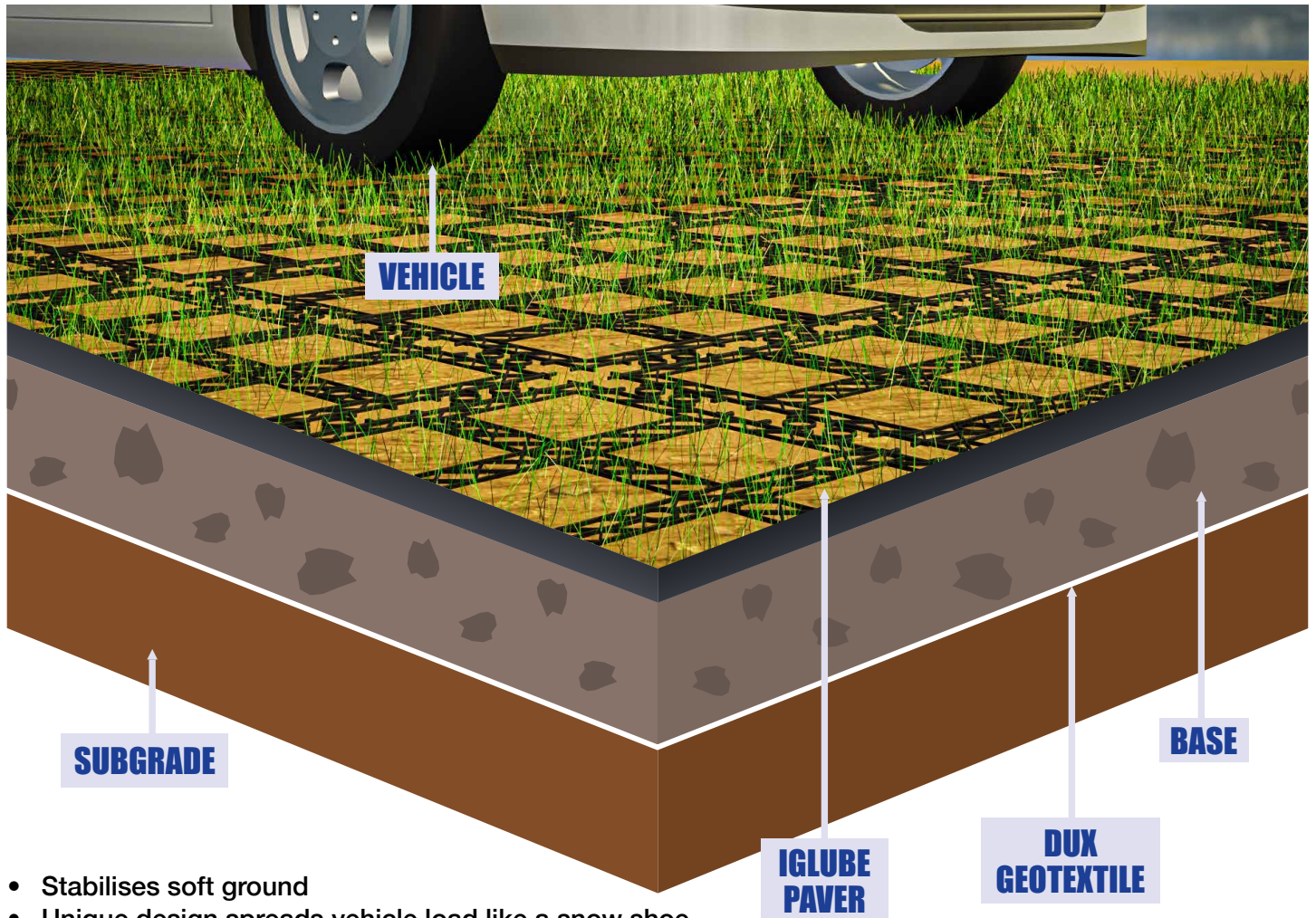


**SOAK PIT  
IGLUBE DOUBLE MODULES**



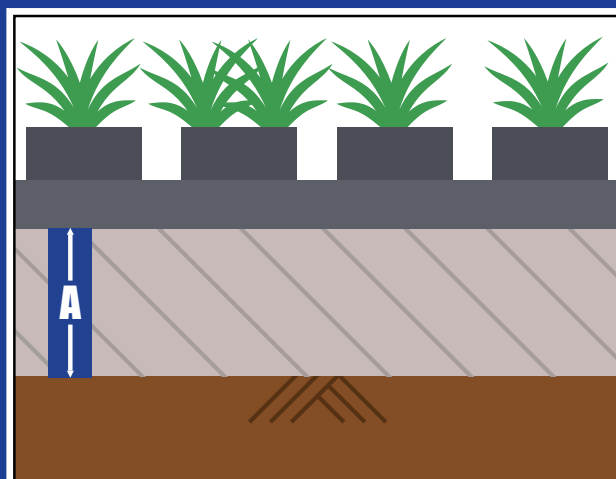
# iglube®

## PERMEABLE PAVER



- Stabilises soft ground
- Unique design spreads vehicle load like a snow shoe
- Open-cell design enables 95% rainwater infiltration, combating floods and soil erosion
- Replace asphalt and concrete with cooling green surface
- Ideal for overflow carpark, golf courses and waterway lining
- Unique computer-aided design software

## BASE COURSE DEPTH GUIDE



**TRAFFIC TYPE**  
Base Depth A

**PEDESTRIAN**  
75 – 100mm

**CARS**  
100 – 150mm

**TRUCKS**  
200 – 300mm



# iglube<sup>®</sup>

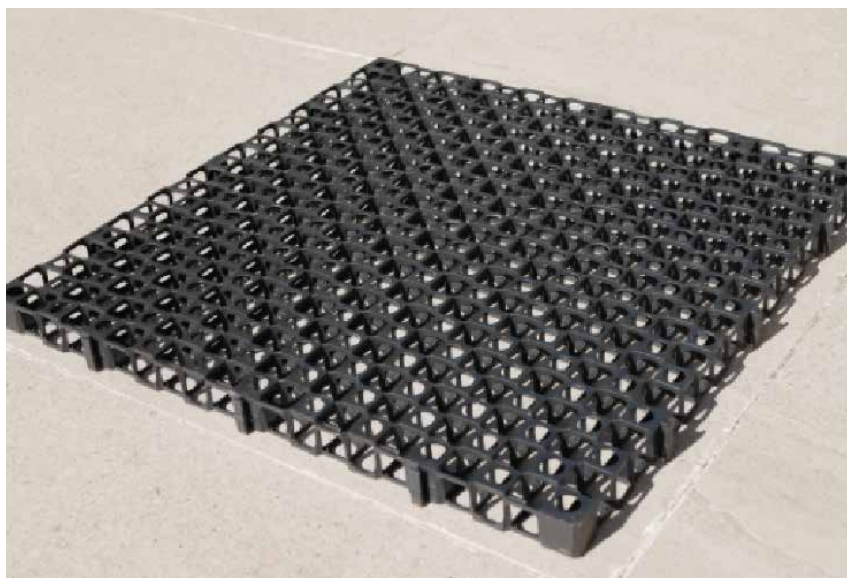
## PROJECTS





# iglube®

## DUX DRAINAGE CELL



Part Number	10020	10030
Part Size	20x540x540mm (HxLxW)	30x540x540mm (HxLxW)
Part Weight	480 grams	600 grams
Weight Per Square Metre	1.64 kg	2.05 kg
Ultimate Crush Strength *	128 tonnes/sqm (182 psi)	80 tonnes/sqm (114psi)
Flow Rate	0.95 Litres /sec/m @ 1% gradient	1.41 L/s/m @1% gradient
Volume Void	95%	95%
Surface Void	95%	95%
Material	85% Recycled Polypropylene (PP), 15% proprietary selected material	
Colour	Black	
Chemical & Biological Resistance	Unaffected by moulds, algae, soil-borne chemicals, bacteria and bitumen.	
Service Temperature	-10°C to 70°C (14°F to 158°F)	
Approximate Design Life	100 years buried	

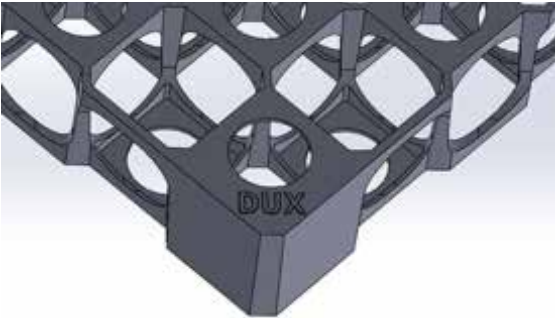
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# iglube®

## DRAINAGE CELL



**Project:** Percy Treyvaud Bowling Club  
**Location:** Malvern East, Melbourne  
**Date:** Dec 2023  
**Product:** DUX 20mm Drainage Cell, 1600sqm  
**Contactor:** Tiger Turf





# iglube®

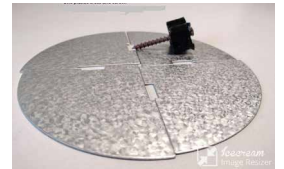
## DUX TILE PEDESTALS



Two Part Pedestal



Spacer



Concealed Lock



Dome Adjuster



Shim -  
Rubber & Plastic



Lock



- “Step” design for supporting raised pavers
- Height and slope adjustable from 34mm to 55mm
- Extenders for taller heights
- Unique concealed fixing system
- Load tested to 2.7 tonne
- Uplift tested to 78kg
- Recycled polypropylene
- Designed, owned and made in Australia
- 7 year warranty

Item	Quantity
<b>Two Part Pedestal</b>	60 units/box, 32 box/p
<b>Spacer, 22mm</b>	116 units/box, 32 box/p
<b>Concealed lock, 4 plates, 1 plastic cross &amp; screw</b>	300 units/box
<b>Shim, plastic</b>	1050/box
<b>Shim, rubber 1&amp;2mm</b>	1200/box
<b>Dome Adjuster</b>	125 units/box, 32 box/p
<b>Lock</b>	per ea.

