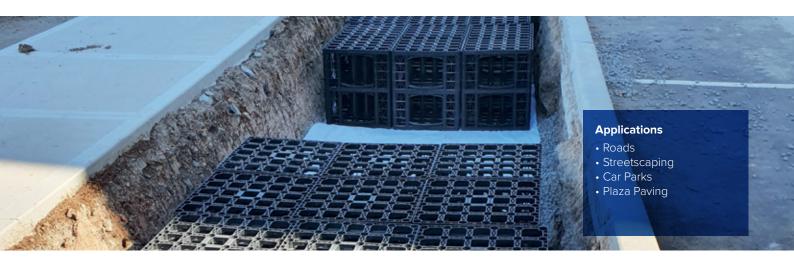
Polyfabrics Reliability you can build on



mastaVAULT MegaTree

mastaVAULT MegaTree are modular units that assemble to form a skeletal matrix that supports relevant pavement loads while providing large volumes of un-compacted soil within the structure for free root growth.

The open, skeletal matrix provides a maximum growth zone for tree roots. More than 95% of the Internal Void volume is available for un-compacted soil and root growth.

Traditionally rock and soil mix use to provide support for pavement, while permitting some root growth within the pavement. mastaVAULT MegaTree System have moved this principle forwarded by entirely replacing the rock (80% of the total volume), the engineered modules provide the structural strength for pavement loads whilst providing free un-compacted soil for root zone to grow and trees to flourish in an urban environment.

| mastaVAULT MegaTree Specifications | | | |
|--|---------------------|---|----------------------------|
| Properties | Unit | Single Module [^] | Double Module [^] |
| Length | mm (in) | 600 (23.62) | 600 (23.62) |
| Width | mm (in) | 600 (23.62) | 600 (23.62) |
| Height | mm (in) | 360 (14.72) | 690 (27.16) |
| Module Volume | L | 129.60 | 248.40 |
| Soil Storage Volume | L | 123.12 | 235.98 |
| Void Area | % | 95 | 95 |
| Surface Void Area | % | 95 | 95 |
| Rib Thickness | mm (in) | 4.3-4.4 (0.16 -0.17) (Minimum thickness of the load bearing members to full depth of the plate) | |
| Service Temperature | °C (°F) | -10 to 75°C (-14 to 167°F) | -10 to 75°C (-14 to 167°F) |
| Recycled Content | % | 85% Selected Recycled Polypropylene + 15% proprietary mix | |
| Biological & Chemical Resistance | - | Unaffected by moulds, algae, Soil borne Chemical, bacteria and bitumen, polypropylene is very inert | |
| Ultimate Unconfined Vertical Crush Strength | ton/sqm (PSI) | 65 (92.45) (Using a full -size plate that completely covers the top of the unit determines the pressure required to crush the entire unit) | |
| Ultimate Unconfined Lateral Load Crush Strength on side | ton/sqm (PSI) | 7.5 (10.66) (Using a full -size plate that completely covers the top of the unit determines the pressure required to crush the entire unit) | |
| Short Term Deflection | per mm | Vertical Deflection 42.00kN/ m ² Lateral Deflection 2.8kN/ m ² | |
| Long Term Deflection | 95kN/m ² | 1.08% 3.88mm (Estimated long term deflection (vertical creep) projected 50 yrs **applied test load of 95 kN / m²) | |
| Projected Creep | 15kN/m ² | 1.41% 8.46mm (Estimated long term deflection (lateral creep) projected 50 yrs ** applied test load of 15 kN/m²) | |

*All compressive strength at yield, maximum recommended safe design value, safety factors to be incorporated. *Derived from long term Extrapolated Creep testing data, 516 day minimum

^Other sizes available

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