

SPEL Megavault

Onsite Stormwater Detention System



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OVERVIEW

The SPEL Megavault delivers an industry-leading answer for medium to large stormwater detention scenarios.

The inspiration of the SPEL Megavault is based on ancient architecture and fundamental principles of cost-effective and efficient stormwater management. These systems have been improved and optimised with the assistance of modern pre-cast concrete technology.

APPLICATIONS

This system allows for maximised use of available land by allowing the detention to be located underneath development sites, carparks, roads or parklands.

- Residential, commercial and industrial developments
- Retail sites
- Subdivisions
- Urban infrastructure



FEATURES

The SPEL Megavault Onsite Stormwater Detention (OSD) System meets legislative requirements for onsite detention, and its condensed footprint guarantees the delivery of high-yield usable land area.

This system has been designed and engineered to maximize the desired outcomes of safety-in-design with respect to manufacture, installation and life-cycle maintenance applicable to larger OSD requirements.

Benefits include:

- Cost efficient construction
- Fast fabrication and installation
- Superior structural outcomes
- Improved site efficiencies & safe work practices
- Condensed OSD footprint
- Versatile depth capability
- Superior product quality

Just like the SPELVault, the SPEL Megavault works hand in hand with SPEL filtration devices to achieve the requirements of Stormwater Quality and Quantity Management Plans to satisfy site design needs for SPP (State Planning Policy), local government and council requirements.



TECHNICAL DATA

SYSTEM INTERNAL HEIGHT (m)	VOLUME PER UNIT(kL)
0.5	4.1
1.0	8.2
1.5	12.4
2.5	20.6
3.0	24.7

* System height can be further tailored to suit site requirements in increments of 100mm up to 3000mm.

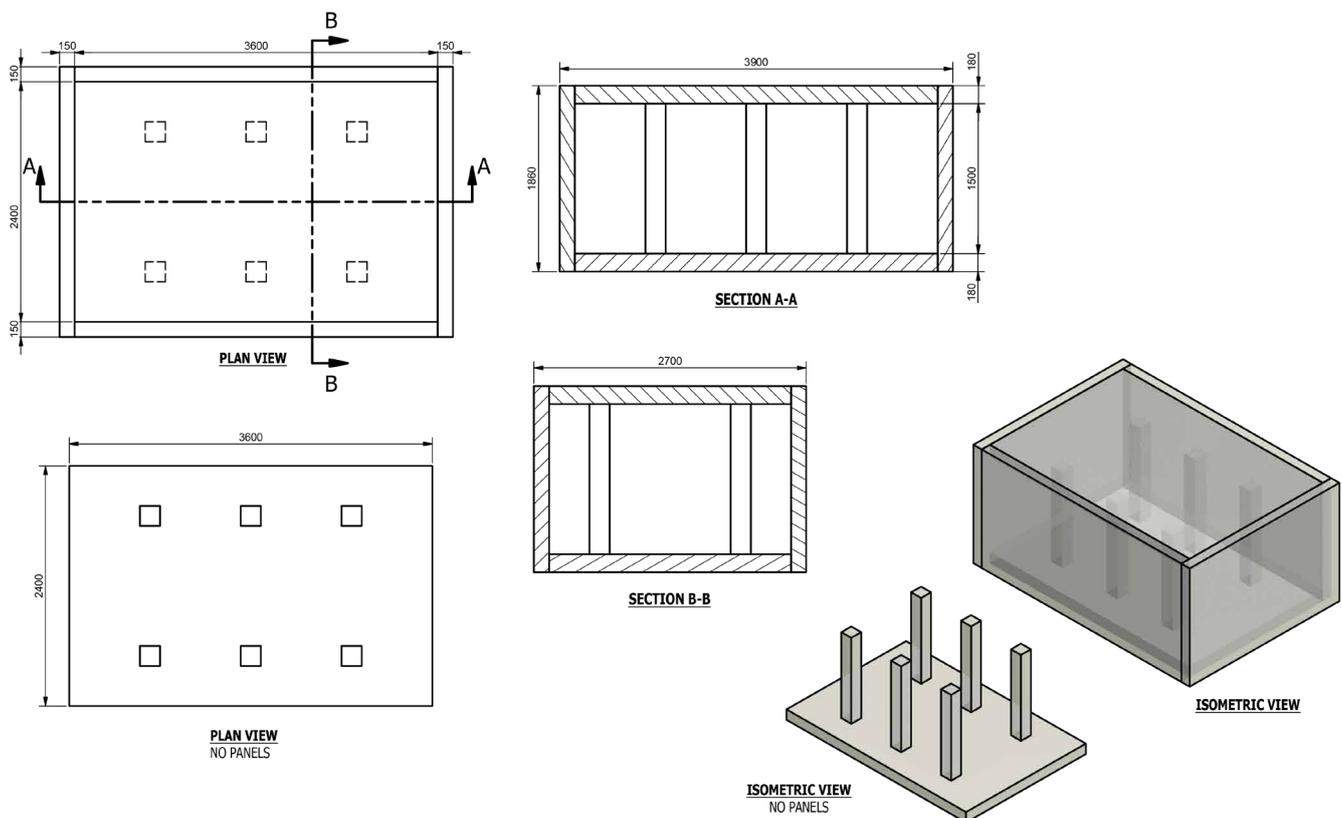
Internal Height	500mm to 3000mm
Load Criteria	T44 to 600mm fill SM1600 to 2000mm fill
Cover	200mm to 2000mm
Min Cover	200mm min.
Bearing	150kPa min. under tank



The SPEL Megavault is engineered to meet Australian Standards and is designed to suit 20kPa surcharge or W80 loading criteria with 3m fill. If higher loadings need to be achieved for special projects, it is recommended to collaborate with the team at SPEL Stormwater.

The Megavault system provides unparalleled versatility in overcoming footprint, configuration and depth constraints which leads this system to be one of the most sought after solutions for storing/retaining water on developments by both civil, hydraulic and consulting engineers alike.

The standard internal heights range from 500mm to 3000mm. The size of each component is designed to maximize freight and installation efficiencies.



Standard Spel Megavault detail

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We believe clean water is a right not a privilege and we work to ensure a joy in water experience for you with your children and grandchildren.



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