Technical Data Sheet

Wavin AquaCell NG

Product description

Wavin AquaCell NG is an advanced modular stormwater management system designed for efficient retention, attenuation, and infiltration. Engineered for sustainability and durability, it is made from 100% recycled and recyclable material and features a high-strength, interlocking design for easy installation. Its modular structure allows for flexible configurations, making it ideal for urban, commercial, and residential applications across various loads and depths. Further enhancing its eco-friendly credentials, its stackable design reduces transport and handling costs while optimizing on-site storage, making it a cost-effective and sustainable choice for stormwater management.

Key benefits

- 100% recycled and recyclable materials
- Compliant to European Standards
- BBA Approved
- Open channels for inspection and maintenance
- Stackable for reduced transport, material handling and reduced site storage footprint
- 50 years minimum life expectancy
- Double stacking for deep / high load applications

Components

Cat Code	Description	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Units per pallet
ANG-IU	AquaCell NG Unit	1200	600	400	11.4	28 ($8m^3$)
ANG-BP	AquaCell NG Base Plate	1200	600	35	3.6	56
ANG-SP	AquaCell NG Side Panel	1155	60	404	2.3	48
ANG-PC	AquaCell NG Pipe Connector	463	353	348	1.2	n/a
ANG-TA	AquaCell NG Shaft Connector	268	592	592	5.0	n/a

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Design Dimensions			
	Standard	High strength	Notes
Length	1200mm		
Width	600mm		
Height	425mm (1)	460mm (2)	(1) Single layer, 400mm unit depth plus 25mm from base plate – subsequent layers increase tank height by 400mm per layer. (2) Single layer in high strength configuration 400mm unit depth plus 60mm additional depth from second unit deck – subsequent layers increase tank height by 400mm in standard configuration and 460mm in high strength configuration.
Volume	0.306 m^3 (3)	0.331 m^3 (4)	(3) subsequent layers increase tanks volume by 0.288m^3 per layer per unit footprint (1200mm x 600mm). (4) subsequent layers increase tanks volume by 0.288m^3 per layer per unit footprint (1200mm x 600mm) in standard configuration and 0.331m^3 per unit footprint in high strength configuration.
Hydraulics			
Void ratio	94.6% (5)(6)	92.5% (6)	(5) Minimum void ratio – void ratio increases as tank layers increase. (6) Tank porosity can vary slightly dependent on tank layout including footprint and height.
Strength			
Short-term compressive strength			
Vertical	438 kN/m^2	621 kN/m^2	
Lateral (kN/m^2)	111 kN/m^2	176 kN/m^2	
Short-Term Vertical Elastic Deflection	1mm per 37.7 kN/m^2	1mm per 40.6 kN/m^2	

Standard Configuration

Extra Strong Configuration

Links

- BBA Certification

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