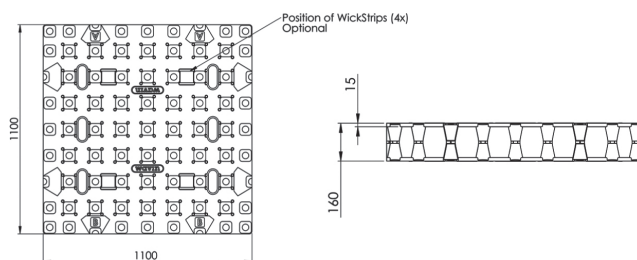
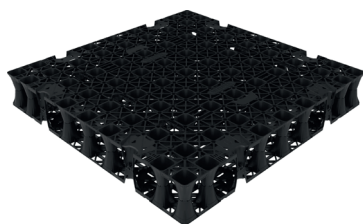


Wavin AquaCell 160

Shallow storage unit for drainage and attenuation on roofs and podium decks

AquaCell 160 is designed to form an efficient drainage and attenuation layer for the management of surface water across roofs or podium decks. With a storage capacity of 153 litres per square meter, it features an open, free-flowing structure with 70% open surface area, ensuring unrestricted water inflow and distribution within the drainage layer. An optional passive irrigation system can be specified, this utilises capillary wick strips to transfer stored rainwater from the retention layer to the substrate layer. This helps support plant irrigation, enhances evaporation, and boosts cooling efficiency.

AquaCell 160 is delivered in two stackable halves to minimise transport and handling.



Area of application

Drainage layer for use within the construction of green and blue roofs. Suitable for roofs and podium decks and under most surface finishes. Not designed for use under trafficked areas.




Technical Information

General	
Material	100% recycled Polypropylene
Material Properties	Frost, temperature, acid, bacteria, fungus, hydrocarbon and rot resistant, (see chemical resistance PP), hydrophobic & inert
Colour	Black
Dimension	1100mm x 1100mm
Nominal Depth	160mm
Weight	7kg per Unit; 6kg per m ²
Performance	
Long term static load strength	≤2000kg/m ² (20kN/m ² EN1752-1)
Dynamic load strength (trafficability)	≤800kg/wheel (icw load distribution plates on >20cm soil)
Void Ratio	> 95 vol. %
Storage Volume	> 185 litre per unit; > 153 litre per m ²
Open Surface Ratio	70% open
Thermal Expansion	< 0.1 % ; < 0,1mm/mK
Fire Hazard Resistance	NEN 6063/NTA 8292:2016

Wavin AquaCell 160

Shallow storage unit for drainage and attenuation on roofs and podium decks

Technical Information

Key features		
	Nestable system	System of stacked units for minimum space requirements during transport and storage and reduced crane lifts to roof level.
	Connection Cups	Adjacent units are connected using connection cups. An optional installation tool is available to aid installation
	Optional Wick Strips	System with or without capillary WickStrips for direct irrigation from the reservoir & increased evaporation, evapotranspiration & cooling
	Ergonomic Handgrips	Six handgrips for easy unstacking, ergonomic handling and carrying without obstructed view
	Hexagon Screw Inserts	For the fixing and positioning of load-based, self-supporting systems and accessories such as solar panels, railings or water taps. Loads to be assessed and reviewed on a project-by-project basis.
incl. Capillary irrigation (optional)		
	WickStrip Material	Polypropylene virgin fibres
	WickStrip Properties	Fast moisture penetration, rot resistant, UV resistant, designed for a high capillary irrigation
	WickStrip Colour	White
	Capillary Irrigation	2 Litres per m ² per 24 hr* <small>*additional capillary WickStrips can be added to increase the irrigation performance</small>
Delivery data		
	Half Unit (85mm high) Full Unit (160mm high)	1.10 x 1.10 x 0.085m 1.10 x 1.10 x 0.160m approx. 1.21m ² per Piece total weight approx. 3.5kg per Piece
	Pallet	1.14 x 1.14 x 1.24m 66 Pieces (half units) per Pallet 33 Pieces (full units) per Pallet approx. 40m ² per Pallet total weight approx. 250kg per Pallet
System components		
160AC100	AQUACELL 160 HALF WITHOUT CAPILLARITY	
160AC150	AQUACELL 160 HALF WITH CAPILLARITY	
160AC151	AQUACELL 160 CONNECTION PLUG	
160AC155	AQUACELL 160 CONNECTOR TOOL	

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