

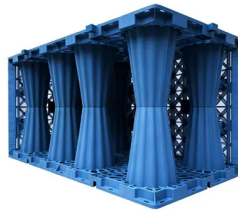
M2025 MODULAR STORMWATER TANK SYSTEM

TECHNICAL DATA SHEET | V60 / R60 / R45

Published tonne classes are manufacturer product designations. They are not allowable project loads, traffic approvals or verified long-term design resistances.



V60
Virgin PP - 60 t class
12.6 kg nominal module



R60
Recycled PP - 60 t class
13.0 kg nominal module



R45
Recycled PP - 45 t class
11.0 kg nominal module

MODULE GEOMETRY AND SYSTEM BASIS

Property	Current controlled value	Status / use
Assembled module	1,000 x 500 x 500 mm	Two matching 250 mm half-modules; nominal geometry.
Gross geometric volume	0.25 m3	Geometric envelope only.
Kontain calculator volume	0.23 m3 per module	Conservative preliminary storage basis; final hydraulic model governs.
Layer increment	500 mm	Tank height is an integer number of module layers.
System outcomes	Detention / infiltration / harvesting	Defined by the engineered enclosure, pipework and controls.

VARIANT IDENTIFICATION

Code	Manufacturer description	Nominal mass	Resin / feedstock source	Published class	Independent evidence supplied
V60	M2025 ULTRA, virgin PP	12.6 kg	3248R (RP250NQ) random-copolymer PP supplied by Fujian Refining & Petrochemical; controlled low proportion of glass fibre, colour masterbatch and processing/stabilising additives declared by manufacturer.	60 t/m2	Intertek short-term compression and 30-day creep reports; evidence applies only to the tested virgin product/configuration.
R60	M2025 ULTRA, recycled PP	13.0 kg	Recycled PP. Feedstock origin, recycled-content control, contamination limits and final compound properties not yet documented in the current evidence pack.	60 t/m2	No equivalent variant-specific independent compression or creep evidence supplied to Kontain.
R45	M2025-E, recycled PP	11.0 kg	Recycled PP. Feedstock origin, recycled-content control, contamination limits and final compound properties not yet documented in the current evidence pack.	45 t/m2	No equivalent variant-specific independent compression or creep evidence supplied to Kontain.

Masses are manufacturer-quoted nominal module masses dated 21 July 2026. Accessories are separately scheduled; confirm final component scope, tolerances and packing list on the purchase order. Colour is visual identification only and is not a substitute for batch records.

STRUCTURAL EVIDENCE - TESTED VIRGIN V60 ONLY

Short-term compression report

Evidence item	Reported condition / result	Correct interpretation
Report	Intertek 260304095GZU-001, issued 27 March 2026. Applicant-supplied M2025 samples; performance testing, not product certification.	Use the complete report and supplier traceability confirmation for project review.
Condition	1,000 x 500 x 500 mm samples; 24 h at 40 +/- 2 C; 20 mm/min; rigid full-surface platen.	Result is specific to the reported specimen, orientation and boundary condition.
Vertical	Top loading without lateral plates reached the 300 kN equipment limit without fracture. Over 0.5 m2, the tested resistance was greater than 600 kPa.	A lower bound on short-term tested-sample resistance. Ultimate failure strength was not established.
Lateral	Lateral loading with side plates recorded 98 kN / 196 kPa.	Reported result for that lateral configuration only.

30-day creep-deformation report

Evidence item	Reported condition / result	Correct interpretation
Report	Intertek 260304095GZU-003, issued 21 May 2026.	Single-specimen observation; not an Intertek certification.
Condition	One 1,000 x 500 x 500 mm specimen at 40 +/- 2 C; reported 595 kg load through a 300 mm centre platen.	Localised load arrangement; not a full-surface design simulation.
Movement	1.81 mm immediately after loading; 2.41 mm at 30 days; additional displacement 0.60 mm.	Measured deformation over 30 days only.
Long-term status	90-day test is pending; manufacturer has indicated a longer observation may continue.	Not an EN 17151 multi-load creep-rupture programme and does not establish 50-year strength.

The virgin V60 test did not fail at 300 kN. It is reasonable to say the short-term specimen resistance was greater than the equipment limit; it is not reasonable to publish an unmeasured ultimate capacity or convert the result directly into an allowable load.

EVIDENCE STATUS AGAINST THE CURRENT QUALIFICATION PLAN

Evidence area	V60 status	R60 / R45 status
Short-term compression	Available: one vertical/lateral report; no vertical failure at equipment limit; replicate characteristic value still required.	Not supplied.
Creep deformation	30-day report available; 90-day pending.	Not supplied.
Creep rupture / 50-year characteristic strength	Not established.	Not established.
Allowable design resistance	Not established; project-specific structural verification required.	Not established; no transfer of V60 evidence permitted.
Connector / assembly testing	Dedicated pull-out, shear, multi-layer and cyclic evidence not supplied.	Not supplied.
Factory production control	Manufacturer declarations available; independent audit and final-compound test schedule remain to be closed out.	Feedstock and contamination controls remain to be documented.

COMPONENTS AND QUANTITY BASIS

Component	Quantity rule	Location / purpose
Modules	Modules per layer x number of 500 mm layers	Storage cell grid.
Horizontal plugs	3 per module on every layer	Key adjacent modules across the tank plan.
Vertical plugs	4 per module at every interface below the top layer	Align stacked layers; no plugs above the top layer.
Top covers	8 per top-layer module (16/m2 roof)	Close the tank roof before wrapping.
Side plates	4 per m2 of exposed vertical sidewall	Close perimeter faces before wrapping.

Project design and selection

No product variant is approved for a traffic category from its V60, R60 or R45 designation alone. The project designer must verify tank height, cover, pavement and soil build-up, wheel and construction loads, lateral pressure, groundwater and flotation, foundation movement, allowable deformation, installation sequence and long-term material factors.

Do not use a fixed cover-depth or traffic table unless it is supported by a reviewed structural calculation for the selected variant, tank geometry, soil profile and load case.

Manufacturer-declared production controls

Item	Current declaration / limitation
Dimensional tolerance	+/- 3 mm for main dimensions (manufacturer declaration).
Mass tolerance	+/- 3% for individual components and complete structural crate (manufacturer declaration).
Batch testing	At least three crates per production batch for proof-load testing; destructive compression every 5,000 crates or monthly, whichever occurs first (manufacturer declaration).
Traceability	PP batch, production date, moulding machine and inspection records linked to packaging/pallet labels (manufacturer declaration).
Warranty	Two years from shipment against verified manufacturing defects; not a structural design-life warranty.

References and document control

Reference	Use
Intertek report 260304095GZU-001	Short-term compression test conditions and measured results for applicant-supplied M2025 samples.
Intertek report 260304095GZU-003	30-day creep-deformation test conditions and measured displacement.
Manufacturer technical correspondence, 16-22 July 2026	V60 formulation declaration, production controls, evidence limitations and pending test status.
Manufacturer quotations, 21 July 2026	V60, R60 and R45 material descriptions and nominal module masses.
Kontain installation guide Rev 08	System assembly, component quantities, enclosure, QA and installation controls.

REV 01 | 23 July 2026 | Initial controlled issue. Variant-specific data separated and current Intertek evidence limits incorporated.

General technical information only. Approved project drawings, specifications, geotechnical advice and the engineer's verified design take precedence. Kontain may revise this sheet when the pending 90-day report, factory-control evidence or variant-specific testing is received.