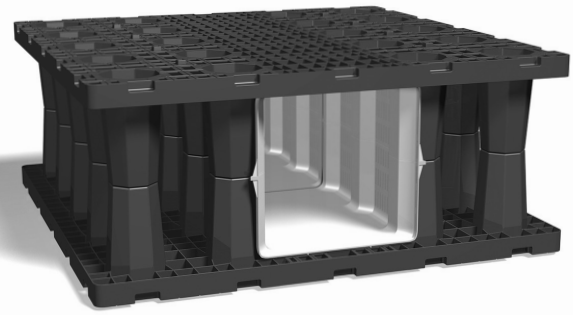
JDP Nature's Network

rainbox®
attenuation solutions



Rainbox C+

PRODUCT INFORMATION SHEET

The Rainbox® C+ crate, manufactured by JDP's Tessenderlo Group partner DYKA, consists of two half-sections and side plates for external walls; assemble these prior to their installation within the crate structure.

The unique sedimentation channels allow for easy maintenance of the Rainbox C+ system.

Features & benefits include:

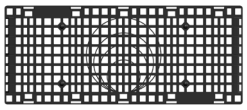
- 100% recycled PP heavy duty crate
- Unique sedimentation channel
- HGV loading capable
- Efficient pallet stacking creates space savings on-site & during transport, reducing CO emissions.
- 100% recyclable

Dimensions	800 x 800 x 330mm
Gross Volume	211L
Storage Volume	200L
Void Ratio	95%
Materials	Recycled Polypropylene
Recyclable	100%
Approx Weight	9.4KG
Inspectable	YES

Weight includes: 2 x crate halves

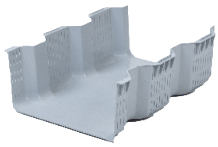
Rainbox C+ Half unit (2 per full crate)

PRODUCT NUMBER	MATERIAL	USEFUL VOLUME (L)	WEIGHT (KG)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)
112020056913	PP	105	4.7	800	800	165



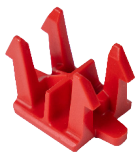
Side Plate (External walls only)

PRODUCT NUMBER	MATERIAL	WEIGHT (KG)	LENGTH (MM)	WIDTH (MM)	CONNECTION
112020056918	PP	1.55	800	330	ø110 to ø250



Grey Sedimentation Insert

PRODUCT NUMBER	MATERIAL	WEIGHT (KG)	SIZE LIMITS	PACKAGING
112020057082	PP	0.289	max ø250	per piece depending on the quantities required *4 per crate*



Red PP Clickers 50 Pieces

PRODUCT NUMBER	MATERIAL	WEIGHT (KG)	PACKAGING
112020057081	PP	0.036	50 pieces/bag

Connecting Plate

PRODUCT NUMBER	TYPE	WEIGHT (KG)	LENGTH (MM)	WIDTH (MM)
112020057712	DN 315	6.8	655	790
112020057720	DN 400	8.6	655	790

John Davidson (Pipes) Ltd, Townfoot, Longtown, Carlisle, CA6 5LY.
Technical Support: 01228 794445

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Attenuation

Soakaway

Technical Design

The JDP Technical Support team can provide hydraulic and structural calculations for each project to develop a customised design. Using the latest industry-standard software, the team offers a variety of bespoke solutions using pre-formatted in-house calculators, created specifically to assist in modifying a tank's standard design. We utilise AutoCAD as our design tool to draft and detail amendments to existing tank footprints, depths, or designing attenuation attenuation and soakaway tanks from scratch. All proposed changes are supported by relevant calculations, documentation, and CAD drawings.

Calculations on the table are based on guidance CIRIA C680.

	Load (GVW)					
	Pedestrians	Up to 3T	12T	16T	30T	60T*
Min Coverage	0.25	0.5	0.6	0.6	0.75	0.8

* Low speed under 15mph

(based on backfill ' 30° and density 20kN/m2)
The installer of the RAINBOX C+ system should ensure that a structural design check in line with CIRIA C680 has been carried out prior to work commencing.

Unique Sedimentation Channel

The optional sedimentation channel designed for the RAINBOX C+ crate provides an easy and effective way to maintain the tank structure and ensure its longevity. Its straightforward design allows it to fit perfectly within the internal framework of the crate and click into place smoothly. This channel prevents unwanted debris, silt, or foreign objects from entering the cellular structure and causing damage or silt compaction. By containing the silt, it makes cleaning the tank significantly easier.

Figure 1 - Contains silt build up

Figure 2 - Easy to water jet and flush

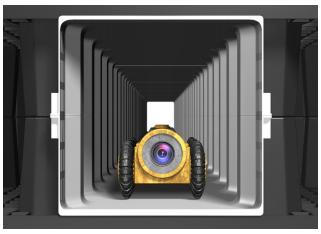

Figure 3 - Smooth surface for CCTV

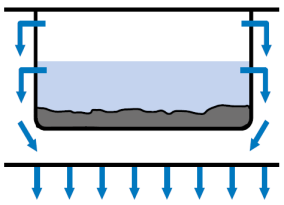

Figure 4 - Silt left in bottom of channel while water moves freely through slots

Applications

The Rainbox C+ can be used in the following light and heavy duty areas.

Garden & Landscape Areas

Driveways

Car Parks

Commercial Yards

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