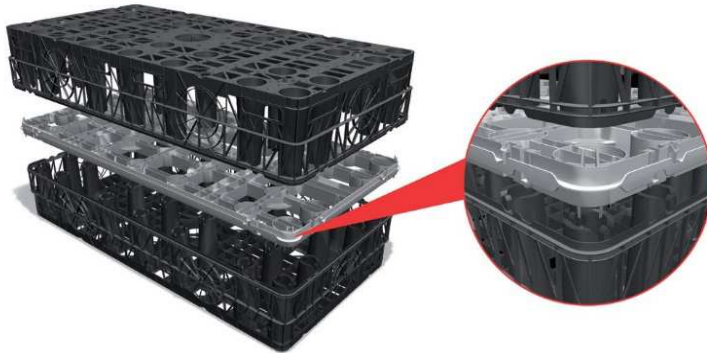


## Technical Data Sheet

The RAINBOX® 3S crate consists of two half-boxes and a centre plate; assemble these prior to their installation within the crate structure.



Dimensions:	<b>1200 x 600 x 420mm</b>
Gross Volume:	<b>302 L</b>
Storage Volume:	<b>290 L</b>
Void ratio:	<b>96 %</b>
Materials:	<b>Polypropylene</b>
Recyclable:	<b>100 %</b>
Approximate weight:	<b>11.5 Kg</b>
Inspectable:	<b>Yes</b>
Crates are linked by clips	



### Connection Options

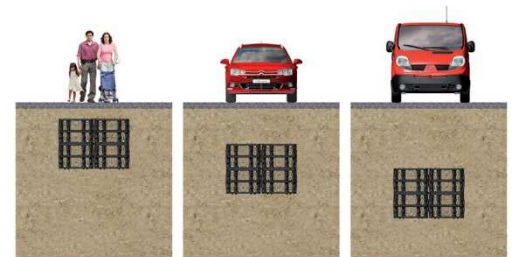
The RAINBOX® 3S comes with pre-formed cut-outs for connecting pipework up to 160mm OD. For larger sizes, up to 400mm OD, specially made adaptor plates can be used.

### Design & Installation Guidance

Vertical loading to the crate structure is determined by the cumulative loads associated with the backfill and any loads linked to operations (vehicular loads (live loads) or permanent structures (dead loads)). Horizontally loading is determined by the pressure exerted by the earth.

The resulting information determines the minimum and maximum covering height and the maximum excavation depth.

Table 1 shows the parameters for different applications.



**Table 1**

(For Guidance Only\*)

	Load (GVW)		
	Pedestrians	Small Vehicles ≤ 3T	Vehicles ≤ 12T**
<b>Coverage in m</b> (based on backfill $\phi'$ 30° and density 20kN/m <sup>2</sup> )			
<b>Min.</b>	0.30	0.50	1.20
<b>Max.</b>	2.50	2.20	2.00
<b>Max Excavation Depth in m</b>			
<b>with backfill <math>\phi'</math> 20°</b>	2.90	2.90	2.90
<b>with backfill <math>\phi'</math> 25°</b>	3.80	3.80	3.50
<b>with backfill <math>\phi'</math> 30°</b>	4.00	4.00	4.00

\* The installer of the Rainbox 3S system should ensure that a structural design check in line with CIRIA C680 has been carried out prior to work commencing.

\*\* Use by heavier vehicles may be permissible depending on site conditions. Please contact JDP Technical Support for more information.

**JDP Technical Support – Tel: 01228 794426; E-mail: [technical@jdpipes.co.uk](mailto:technical@jdpipes.co.uk)**

JDP reserve the right to make alterations to this document without prior notice or update. Information correct as of 1<sup>st</sup> August 2017.