



Cover Options

See reverse for details of various cover and frame options.

Box Options

- Widths and Lengths from 400 to 2500mm
- Depths from 470 to 2500mm are available
- Predrilled duct holes
- Internal steps and cable furniture

Bottom Plates/Floors

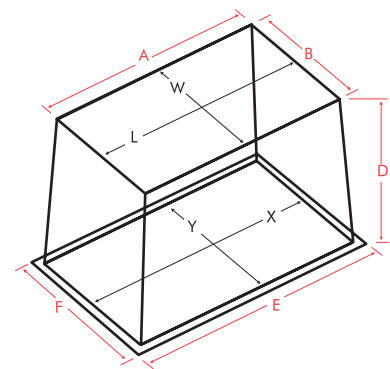
See reverse for details of bottom plates/floors and grate options.

Standard Size Selector

Choose a Standard Size PolyVault model from the clear opening dimensions shown below. Other sizes can be supplied from 400 to 2500mm wide and in depths from 470 to 2500mm.

LENGTH (L) (clear opening mm)

		610mm	910mm	1220mm	1370mm	1530mm	1835mm	2140mm
WIDTH (W) (clear opening)	470mm	1824	1836	1848	1854	1860	1872	1884
	610mm	2424	2436	2448	2454	2460	2472	2484
	910mm		3636	3648	3654	3660	3672	3584
	1220mm			4848	4854	4860	4872	4884
	1370mm				5454	5460	5472	5484
	1530mm					6060	6072	6084
	1835mm						7272	7284
	2140mm							8484



Example: For a clear opening 910 x 1835mm, select PV '3672'.

Note that the maximum working area (X/Y) inside the vault is about 80mm bigger than the clear opening, e.g. for PV 3672, internal working size is 990 x 1915mm.

Application Notes: Carson boxes are suitable for a wide range of applications, from grass verge (A15) to car park & footpath applications (B125). It is important to select the correct cover and frame and installation method to suit the loading and local conditions. Technical advice is available from Carson. These products are not designed for carriageway use. *All dimensions to nearest 5mm.* Due to our policy of continuous improvement, we reserve the right to change specifications without notice.



Material Data

(Specification available on request)

Structural Foam – High Density Polyethylene

HDPE has excellent chemical resistance to ethanol, acetone, diesel etc. and is unaffected by sulfate ground conditions.

- Recyclable
- Robust – no breakage waste
- Completely impervious to water
- Nitrogen injection creates cellular core (CFC free)
- High strength to weight ratio
- High stiffness to weight ratio
- Easy to cut for duct entries

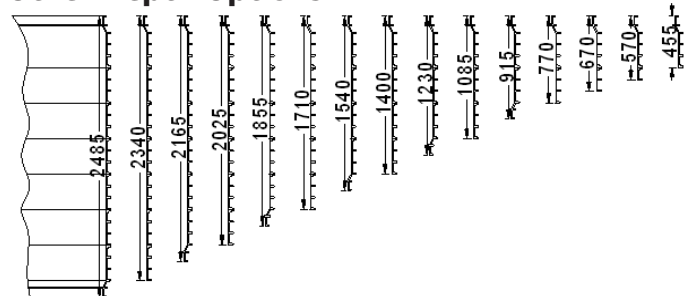
Properties of unfoamed resin	Test Method	HDPE
Tensile Strength	ISO 1926	21.37 - 37.92 N/mm ²
Flexural Modulus	ISO 1290 - 2	1103 - 1447 N/mm ²
Notched Izod Impact Strength	ISO 180 - 1A	270 - 800 J/M
Deflection Temperature	ISO 75 - 1	73 - 82°
Density	ISO 8962	0.955 g/cm ³
Chemical Resistance	–	Excellent
Water Absorption	–	None

Vertical Load Rating

When installed, meets the loading requirements of EN124 Class B125 i.e. 125kN (~12.5T) test load. Suitable for areas accessible to all slow moving traffic.



Other Depth Options



Cover and Frame Options

- HDPE up to 3660
- HDPE (A15)
- Galvanised Steel T Cover
- Concrete Infill Cover & Galvanised Steel Frame (EN124 Class B125)
- Ductile Iron Cover & Galvanised Steel Frame (EN124 Class B125)

Other options available on request.

Base Options

- Duct and pipe entries can be provided to suit customer applications
- Bottom plates/floors and grates to protect or locate internal equipment can be provided.

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