

POLYMER CONCRETE PITS



Polymer Concrete Electrical Cable Pits

iDS™ Polymer Concrete is a versatile pit material proving longevity in a range of different conditions. Once installed, Polymer Concrete is extremely robust with a compressive strength higher than traditional concrete. Polymer provides a chemically resistant solution with excellent thermal properties.

Typical Applications

- Carparks
- Pavements
- Sports venues
- Driveways
- Industrial sites
- Urban distribution
- Airports

Features

- iDS™ Polymer Concrete is a tried and tested material that is strong and robust; a key element for specification where needed.
- iDS™ Polymer Concrete is an inert product, it is not readily reactive with other elements and is resistant to chemical and organic matter attack.
- A major strength of iDS™ Polymer Concrete is zero water absorption. This means no ingress of water is guaranteed in these systems. Polymer Concrete's heat resistance is high, up to 70°C (resin HDT). Use in extreme temperature conditions has no detrimental effects to Polymer Concrete pits
- Polymer Concrete pits can be cut using the appropriate cutting tools including diamond core drills and or masonry drills or grinders (It is advisable to risk assess this operation to ensure staff are adequately trained ensuring adequate ventilation is available and safety equipment worn at all times).
- Polymer Concrete is an excellent insulator. This means it will not conduct electricity, and therefore, is an ideal material to specify in installations where electrification may exist.

GVK is a key distributor for IDS (Integrated Ducting Systems) who are an internationally successful brand providing design and procurement solutions to the ducting market. IDS' global focus enables them to bring together the benefits of international experience with local products to provide ongoing solutions and the unique opportunity to select materials of choice for construction projects.

Installation

When installing an iDS™ Polymer Concrete pit the following should be taken into consideration:

1. Cover type.
2. Pit/duct type and size.
3. A minimum grade of 25MPa correctly sized concrete bed and surround.

Polymer Concrete pits installed in trafficable areas must conform to the minimum cement concrete dimensions as specified by iDS™ - please contact GVK for details.

Engineering advice should be requested for certain applications. All installations should conform to accepted building standards. In trafficable areas the surface of the cement or concrete surround or pavement if asphalted to the edge of the pit must be finished 3mm above the pit/cover edge.

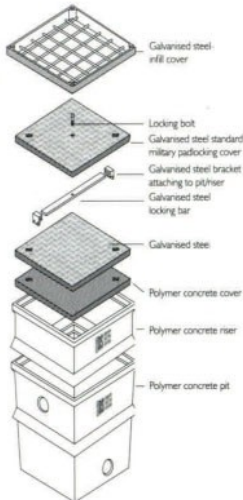
PLEASE NOTE: For flexible pavement applications involving the installation of an access cover, a temporary base haunch should be provided to protect the exposed edge frame from construction traffic.

Technical Specification

Polymer Concrete Electrical Cable Pits	
Compressive strength:	96MPa C-579
Flexural strength:	27MPa C-580
Tensile strength:	21MPa C-307
Water absorption:	+0.07% C-97
Freeze-thaw:	300 cycles modulus of elasticity 95.1% C666
Coefficient of expansion/contraction:	45.6 x 10 ⁻⁶ per °C E831
Water vapour transmission:	WVT 0.0364g/m ² - 1,592hrs
Surface burning:	Flame spread : 0 Smoke density : 5 E84
Weathering:	2000hr exposure no change G-153
Coefficient of friction (Manning's):	n=0.011
Chemical resistance:	Good

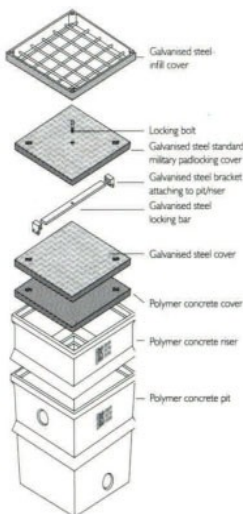
Polymer Concrete PC33 & PC45 SERIES PIT & LIDS

iDS™ PC33 Polymer Concrete Pit Combinations - 300 X 300



Part No.	Description	OUTSIDE DIMENSIONS				Clear Opening
		Weight (kg)	Length (mm)	Width (mm)	Depth (mm)	
PIT DATA						
PITPC300	PC33 Polymer Concrete Pit	19.0	374	374	450	300 x 300
PITPC300L	PC33 Polymer Concrete Pit - Locking	20.0	374	374	450	300 x 300
RISERPC300	PC33 Polymer Concrete Riser	16.5	374	374	300	300 x 300
RISERPC300L	PC33 Polymer Concrete Riser - Locking	17.5	374	374	300	300 x 300
COVER DATA						
PITPC300LIDP	PC33 Polymer Concrete Lid - Blank	5.2	340	340	32	300 x 300
PITPC300LIDS	PC33 Galvanised Steel Cover "Class B"	6.2	340	340	32	300 x 300
PITPC300LIDSL	PC33 Locking Galvanised Steel Cover "Class B"	6.2	340	340	32	300 x 300
PITPC300LIDSPL	PC33 Padlocking Galvanised Steel Cover "Class B"	8.2	340	340	32	300 x 300
	300x300c/o 1pt Urban-Classic Steel infill Cover	5.8	410	410	80	300 x 300
BRASS LABELLING PLATES FOR BLANK LIDS						
PITBP-ELEC	Brass Label for Poly. Lid "ELECTRICITY"	0.11	45	145	2	N/A
PITBP-COMMS	Brass Label for Poly. Lid "COMMUNICATIONS"	0.11	45	145	2	N/A

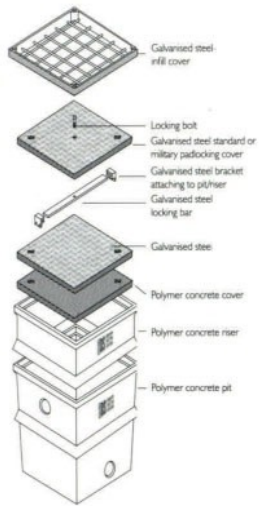
iDS™ PC45 Polymer Concrete Pit Combinations - 450 X 450



Part No.	Description	OUTSIDE DIMENSIONS				Clear Opening
		Weight (kg)	Length (mm)	Width (mm)	Depth (mm)	
PIT DATA						
PITPC450	PC45 Polymer Concrete Pit	44.0	526	526	600	450 x 450
PITPC450L	PC45 Polymer Concrete Pit - Locking	45.0	526	526	600	450 x 450
RISERPC450	PC45 Polymer Concrete Riser	31.5	526	526	300	450 x 450
RISERPC450L	PC45 Polymer Concrete Riser - Locking	32.5	526	526	300	450 x 450
COVER DATA						
PITPC450LIDP	PC45 Polymer Concrete Lid - Blank	15.8	492	492	50	450 x 450
PITPC450LIDS	PC45 Galvanised Steel Cover "Class B"	16.5	492	492	50	450 x 450
PITPC450LIDSL	PC45 Locking Galvanised Steel Cover "Class B"	16.5	492	492	50	450 x 450
PITPC450LIDSPL	PC45 Padlocking Galvanised Steel Cover "Class B"	18.5	492	492	50	450 x 450
PITPC450LIDSD	PC45 Ductile Solid Top Steel Cover "Class D"	84.0	660	660	100	450 x 450
	450x450c/o 1pt Urban-Classic Steel infill Cover	9.5	560	560	80	450 x 450
BRASS LABELLING PLATES FOR BLANK LIDS						
PITBP-ELEC	Brass Label for Poly. Lid "ELECTRICITY"	0.11	45	145	2	N/A
PITBP-COMMS	Brass Label for Poly. Lid "COMMUNICATIONS"	0.11	45	145	2	N/A

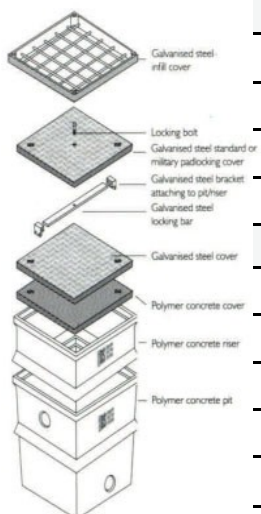
Polymer Concrete PC63 & PC66 SERIES PIT & LIDS

iDS™ PC63 Polymer Concrete Pit Combinations - 600 X 300



Part No.	Description	OUTSIDE DIMENSIONS				Clear Opening
		Weight (kg)	Length (mm)	Width (mm)	Depth (mm)	
PIT DATA						
PITPC63	PC63 Polymer Concrete Pit	50.0	660	360	735	600 x 300
PITPC63L	PC63 Polymer Concrete Pit - Locking	51.0	660	360	735	600 x 300
COVER DATA						
PITPC63LIDP	PC63 Polymer Concrete Lid - Blank	20.0	625	324	21	600 x 300
PITPC63LIDS	PC63 Galvanised Steel Cover "Class B"	11.0	625	324	21	600 x 300
PITPC63LIDSL	PC63 Locking Galvanised Steel Cover "Class B"	11.0	625	324	21	600 x 300
PITPC63LIDSPL	PC63 Padlocking Galvanised Steel Cover "Class B"	13.5	625	324	21	600 x 300
	600x400c/o 1pt Urban-Classic Steel infill Cover	9.5	710	510	80	600 x 400
BRASS LABELLING PLATES FOR BLANK LIDS						
PITBP-ELEC	Brass Label for Poly. Lid "ELECTRICITY"	0.11	45	145	2	N/A
PITBP-COMMS	Brass Label for Poly. Lid "COMMUNICATIONS"	0.11	45	145	2	N/A

iDS™ PC66 Polymer Concrete Pit Combinations - 600 X 600

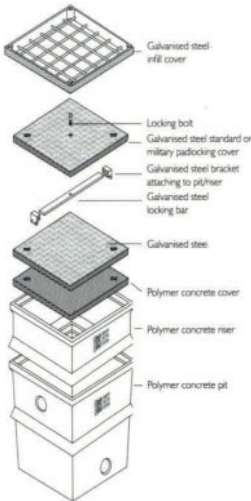


Part No.	Description	OUTSIDE DIMENSIONS				Clear Opening
		Weight (kg)	Length (mm)	Width (mm)	Depth (mm)	
PIT DATA						
PITPC600	PC66 Polymer Concrete Pit	64.5	677	677	615	600 x 600
PITPC600L	PC66 Polymer Concrete Pit - Locking	65.5	677	677	615	600 x 600
RISERPC600	PC66 Polymer Concrete Riser	41.5	677	677	300	600 x 600
RISERPC600L	PC66 Polymer Concrete Riser - Locking	42.5	677	677	300	600 x 600
COVER DATA						
PITPC600LIDP	B PC66 Polymer Concrete Lid - Blank	23.0	642	642	50	600 x 600
PITPC600LIDS	PC66 Galvanised Steel Cover "Class B"	26.1	642	642	50	600 x 600
PITPC600LIDSL	PC66 Locking Galvanised Steel Cover "Class B"	26.1	642	642	50	600 x 600
PITPC600LIDSPL	PC66 Padlocking Galvanised Steel Cover "Class B"	28.6	642	642	50	600 x 600
PITPC600LIDSD	PC66 Ductile Solid Top Steel Cover "Class D"	115.0	812	812	100	600 x 600
	600x600c/o 1pt Urban-Classic Steel infill Cover	11.0	710	710	80	600 x 600
BRASS LABELLING PLATES FOR BLANK LIDS						
PITBP-ELEC	Brass Label for Poly. Lid "ELECTRICITY"	0.11	45	145	2	N/A
PITBP-COMMS	Brass Label for Poly. Lid "COMMUNICATIONS"	0.11	45	145	2	N/A

PC96 & PC99 SERIES PIT & LIDS

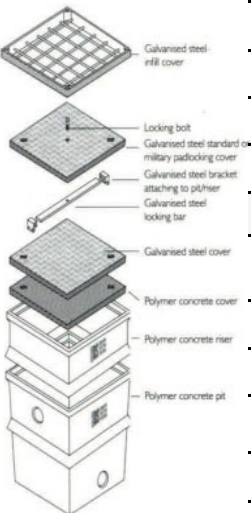


iDS™ PC96 Polymer Concrete Pit Combinations - 900 X 600



Part No.	Description	OUTSIDE DIMENSIONS				Clear Opening
		Weight (kg)	Length (mm)	Width (mm)	Depth (mm)	
PIT DATA						
PITPC96	PC96 Polymer Concrete Pit	93.0	985	685	600	900 x 600
PITPC96L	PC96 Polymer Concrete Pit - Locking	94.0	985	685	600	900 x 600
RISERPC96	PC96 Polymer Concrete Riser	52.0	985	685	300	900 x 600
RISERPC96L	PC96 Polymer Concrete Riser - Locking	53.0	985	685	300	900 x 600
COVER DATA						
PITPC96LIDP	PC96 Polymer Concrete Lid 2pt - Blank Comprises of 2 lids & T support	39.2	942	642	50	900 x 600
PITPC96LIDS	PC96 Galvanised Steel Cover "Class B"	36.2	942	642	50	900 x 600
PITPC96LIDSL	PC96 Locking Galvanised Steel Cover "Class B"	36.2	942	642	50	900 x 600
PITPC96LIDSPL	PC96 Padlocking Galvanised Steel Cover "Class B"	38.7	942	642	50	900 x 600
PITPC96LIDSD	PC96 Ductile Solid Top Steel Cover "Class D"	115.0	1127	812	100	915 x 600
	900x600c/o 1pt Urban-Classic Steel infill Cover	14.0	1010	710	80	900 x 600
BRASS LABELLING PLATES FOR BLANK LIDS						
PITBP-ELEC	Brass Label for Poly. Lid "ELECTRICITY"	0.11	45	145	2	N/A
PITBP-COMMS	Brass Label for Poly. Lid "COMMUNICATIONS"	0.11	45	145	2	N/A

iDS™ PC99 Polymer Concrete Pit Combinations - 900 X 900



Part No.	Description	OUTSIDE DIMENSIONS				Clear Opening
		Weight (kg)	Length (mm)	Width (mm)	Depth (mm)	
PIT DATA						
PITPC900	PC99 Polymer Concrete Pit	135.0	1006	1006	600	900 x 900
PITPC900L	PC99 Polymer Concrete Pit - Locking	136.0	1006	1006	600	900 x 900
RISERPC900	PC99 Polymer Concrete Riser	82.5	1006	1006	300	900 x 900
RISERPC900L	PC99 Polymer Concrete Riser - Locking	83.5	1006	1006	300	900 x 900
COVER DATA						
PITPC900LIDP	PC99 Polymer Concrete Lid 2pt - Blank Comprises of 2 lids & T support	84.7	944	944	65	900 x 900
PITPC900LIDS	PC99 Galvanised Steel Cover "Class B"	59.3	944	944	65	900 x 900
PITPC900LIDSL	PC99 Locking Galvanised Steel Cover "Class B"	59.3	944	944	65	900 x 900
PITPC900LIDSPL	PC99 Padlocking Galvanised Steel Cover "Class B"	71.8	944	944	65	900 x 900
PITPC900LIDSD	PC99 Ductile Solid Top Steel Cover "Class D"	213.0	1115	1115	100	900 x 900
	900x900c/o 1pt Urban-Classic Steel infill Cover	17	1010	1010	80	900 x 900
BRASS LABELLING PLATES FOR BLANK LIDS						
PITBP-ELEC	Brass Label for Poly. Lid "ELECTRICITY"	0.11	45	145	2	N/A
PITBP-COMMS	Brass Label for Poly. Lid "COMMUNICATIONS"	0.11	45	145	2	N/A