

Duct & Access Systems

Cubis

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CIVILS

Cubis

STAKKAbox™

Ultima / Modula

Ultima

STAKKAbox™ Ultima is a system for building access chambers for use in underground infrastructure networks.

Ultima is moulded in Glass Reinforced Polyester in 150mm deep twinwall sections which stack to the required chamber depth.

Length mm	Width mm	Depth mm
500	500	150
800	800	150
915	445	150
1,160	380	150
1,200	600	150
1,200	1,200	150
1,310	610	150
1,300	850	150
1,500	750	150
1,220	675	150
1,900	1,200	150
2,500	1,200	150



Modula

Stackable access chamber sections, suitable for installation in the footway and in trafficked areas. Sections are available in solid ring or component format and in 150mm sectional depths.

Component rings are constructed from corner pieces which can be used alone to form a 300mm square section or in combination with side-wall pieces measuring 100mm, 150mm and 300mm to produce a wide range of chamber sizes.

Length mm	Width mm	Depth mm
300	300	150
450	300	150
450	450	150
600	450	150
600	600	150
750	600	150
750	750	150
900	450	150
900	600	150
900	900	150



Quad / Fortress

Quad

STAKKAbox™ Quad is a range of modular and structural preformed access chambers. Available in the 102, 104 and 106 sizes, Quad is the only modular access chamber approved for use on British Telecom networks.

Supplied in 150mm deep twinwall rings, STAKKAbox™ chambers are built by stacking sections until the required depth is reached. Each section weighs under 25kg, making it suitable for a single person to lift under manual handling guidelines.

The Quad system is moulded in HDPE and possesses excellent strength to weight properties. Each section is ribbed internally to improve loading performance.



Length mm	Width mm	Depth mm
720	225	150
915	445	150
1,310	610	150

Fortress

STAKKAbox™ Fortress is a range of modular and structural preformed access chambers. Fortress access chambers are suitable for use in carriageway and footway environments. The 'Type B' profile is suitable for use in areas rated E600.

Supplied in 150mm deep twinwall rings, STAKKAbox™ chambers are built by stacking sections to required depth. Each part weighs under 25kg, making it suitable for a single person to lift under manual handling guidelines.

Length mm	Width mm	Depth mm
445	445	150
610	445	150
610	610	150
675	675	150
915	445	150
915	610	150
915	915	150
1,220	445	150
1,220	610	150
1,220	675	150
1,220	915	150
1,220	1,220	150
1,310	610	150



MULTIduct™

MULTIduct™ is a multiple duct bank system with 4, 6 or 9-way options.

Units can be combined to form multiple duct banks for use under/alongside track (UTX) or road (URX) crossings, bridge crossings, through tunnels or for any other applications where a multiple ducting network is required.

Moulded in structural foam HDPE, MULTIduct™ is lightweight and easy to use, while also very strong. In addition the configuration of MULTIduct™ results in narrower trenches than those required for duct banks built from several traditional individual ducts.

The system comprises standard straight conduit sections and a full range of accessories to manage common bends, duct configurations and for interfaces with single ducts and access chambers.

Features and benefits:

- 4, 6 and 9-way (110mm duct) and 4-way (160mm duct) options available
- Approved and used by major European rail operators
- Very strong structural design – no concrete surround required
- All parts weigh less than 20kgs



Product reference	Lay length mm	X mm	Y mm	Ducting space
4-way	1,065	252	252	110
4-way	1,065	376	376	160
6-way	1,065	358	252	110
9-way	1,065	376	376	110



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Duct Chambers



STAKKAbox
450x450



STAKKAbox
600x600

Code	Length mm	Width mm	Depth/height mm	Class	Loading
STAKKAbox 40 Tonne Twin Wall Access Chamber					
STX300x300	300	300	155	D400	40 tonne
STX450x300	450	300	155	D400	40 tonne
STX450x450	450	450	155	D400	40 tonne
STX600x450	600	450	155	D400	40 tonne
STX600x600	600	600	155	D400	40 tonne

- Available in riser and pre-drilled access sections
- 40 tonne vertical load
- Simple and quick installation
- No concrete required for footway installations
- Long life
- Fully recycleable
- All products comply with EN124

No concrete surround required for footway installations.

Retention Sockets

The NAL Retention Socket is a patented range of galvanised cast steel and ductile iron sockets which securely retain in position all types of illuminated and non-illuminated street furniture posts. They are manufactured in a range of sizes and shapes to suit the wide variety of street furniture being installed on the Highway today.



Non-illuminated



Tee Bend



Duckfoot Bend



Shallow foundation

Code	Standard depths mm	Bases available
RS48	336	NI SF
RS50	336	NI SF
RS50x50	336	NI SF
RS50x60	336	NI SF
RS60	300/450/600/750/900	NI DF TB SF
RS76	300/450/600/750/900	NI DF TB SF
RS8/9	300/450/600/750/900	NI DF TB SF
RS115	218/450/600/750/900	NI DF TB SF
RS140	300/600/750/900	NI DF TB SF
RS145	300/600/750/900	NI DF TB SF
RS168	300/600/750/900	NI DF TB SF
RS177	300/600/750/900	NI DF TB SF
RS194	300/600/900	NI DF TB SF
RS202	300/600/900	NI DF TB SF
RS219	300/600/900	NI DF TB SF
RS226	300/600/900	NI DF TB SF
RS245	300/600/900	NI DF TB SF
RS273	300/600/900	NI DF TB SF
RS120x80	300/600/900	NI DF TB SF
RSTF	300/600/900	NI DF TB SF
RS323	300/600/900	NI DF TB SF
RS406	1200	NI DF

These products comply with BS EN 124. Guaranteed to withstand unlimited knock-downs.
Base types: NI – Non-illuminated base;
 DF – Duckfoot bend base; TB – Tee bend base;
 SF – Shallow foundation base

Composite Covers & Frames / Loop Boxes

Composite Covers & Frames

Code	Length mm	Width mm	Class	Loading
Extra Deep Cover and Galvanised Frame 85mm, Badged TS/SL EN124				
WCF300x300	300	300	B125 and C250	12.5t / 25t
WCF450x300	450	300	B125 and C250	12.5t / 25t
WCF450x450	450	450	B125 and C250	12.5t / 25t
WCF600x450	600	450	B125 and C250	12.5t / 25t
WCF600x600	600	600	B125 and C250	12.5t / 25t



Extra Deep Cover Frame 85mm
B125 and C250

Code	Length mm	Width mm	Class	Loading
Classic Cover and Galvanised Frame 45mm, Badged 'Highways'				
CF300x300CS	300	300	B125	12.5t
CF450x300CS	450	300	B125	12.5t
CF450x450CS	450	450	B125	12.5t
CF600x450CS	600	450	B125	12.5t
CF600x600CS	600	600	B125	12.5t



Classic (Highways)
Composite Cover 45mm

All covers comply with EN124

Carriageway Loop Boxes



Loop Box D400



Loop Box D400



Loop Box D400

- D400 one piece non-rockable cover
- Octagonal shape allows easy core drilling
- Loop entry slots sealed with removable blanking plates
- Base spigot to secure 100mm or 50mm duct

- Side entry option for 50mm duct
- Ductile Iron base with Spigot plug ensures no duct blockages
- Multi Directional Access (4 way)
- Can be installed offset or directly against the kerb
- Removes the need to slot cut through kerb

Code	Length mm	Width mm	Depth/height mm	Class	Loading	Compliance
D400 LOOP	150	150	140	D400	40 tonne	EN 124

Ridgiduct

Power Duct Class 1

Code	Nominal Size mm	Length m	Material
RBHV100X2*	100	2	Polypropylene
RBHV125X2	125	2	Polypropylene
RBHV150X2	150	2	Polypropylene
RBHV100X3	100	3	Polypropylene
RBHV125X3	125	3	Polypropylene
RBHV150X3	150	3	Polypropylene
RBHV100X6	100	6	Polypropylene
RBHV125X6	125	6	Polypropylene
RBHV150X6	150	6	Polypropylene



* Complies with HV ENATS 12-24 Class 1 Specification, BS EN 61386-24.

Power Duct Class 2

Code	Nominal Size mm	Length m
RB7100X2	100	2
RB7100X3	100	3
RB7100X6	100	6
RB125X2	125	2
RB125X3	125	3
RB125X6	125	6
RB150X2	150	2
RB150X3	150	3
RB150X6	150	6

Complies with ENATS 12-24 Class 2 Specification, BS EN 61386-24.

Power Duct Class 3

Code	Nominal Size mm	Length m
RB94X6	94	6
RB100X2	100	2
RB100X3	100	3
RB100X6	100	6

Complies with ENATS 12-24 Class 3 Specification, BS EN 61386-24.

Power Split Ducts

Code	Nominal Size mm	Length m
RB100X15	100	1
RB125X15	125	1
RB150X15	150	1
RB100X25	100	2
RB125X25	125	2
RB150X25	150	2
RB100X35	100	3
RB125X35	125	3
RB150X35	150	3

Polypipe Civils

Cable Protection Systems

Ridgiduct – Continued

Motorway Communication Ducting

Code	Nominal Size mm	Length m
RB94X6PMCPPE	94	6
RB100X6PMCPPE	100	6
RB150X6PMCPPE	150	6

HAPAS approved, IP47 rated sealed system,
Complies with BS EN 61386-24.



Traffic Signals / Street Lighting (Orange)

Code	Nominal Size mm	Length m
RB94X60	94	6
RB100X60	100	6
RB150X60	150	6

BBA and HAPAS approved,
complies to BS EN 61386-24.

Double Socket Bends

Code	Nominal Size mm	Angle	Radius	Material
RBHVB100X11X3.9B	100	11.25°	3.9	PVC
RBHVB100X22X3.9B	100	22.5°	3.9	PVC
RBHVB100X45X1.2B	100	45°	1.2	PVC
RBHVB100X90X1.2B	100	90°	1.2	PVC
RBHVB125X11X3.9B	125	11.25°	3.9	PVC
RBHVB125X22X3.9B	125	22.5°	3.9	PVC
RBHVB125X45X1.2B	125	45°	1.2	PVC
RBHVB125X90X1.2B	125	90°	1.2	PVC
RBHVB150X11X3.9B	150	11.25°	3.9	PVC
RBHVB150X22X3.9B	150	22.5°	3.9	PVC
RBHVB150X45X1.2B	150	45°	1.2	PVC
RBHVB150X90X1.2B	150	90°	1.2	PVC

Manufacturing and Test
Requirements of ENATS 12-24.

Power Double Socket Bend Class 2

Code	Nominal Size mm	Angle	Radius	Material
RBB100X11X2.4*	100	11.25°	2.4	PVCu
RBB100X22X2.4*	100	22.5°	2.4	PVCu
RBB100X45X0.45	100	45°	0.45	PVCu
RBB100X90X0.45	100	90°	0.45	PVCu
RBB125X11X2.4*	125	11.25°	2.4	PVCu
RBB125X22X2.4*	125	22.5°	2.4	PVCu
RBB125X45X0.61	125	45°	0.61	PVCu
RBB125X90X0.61	125	90°	0.61	PVCu
RBB150x11x2.4*	150	11.25°	2.4	PVCu
RBB150X22X2.4*	150	22.5°	2.4	PVCu
RBB150X45X0.61	150	45°	0.61	PVCu
RBB150X90X0.61	150	90°	0.61	PVCu

* Complies with ENATS 12-24.

Ridgiduct – Continued

Long Radius Drawn Bends

Code	Nominal Size mm	Angle	Radius mm
RBDB94X11X0.42	94	11.25°	420
RBDB94X22X0.42	94	22.5°	420
RBDB94X45X0.42	94	45°	420
RBDB94X90X0.42	94	90°	420
RBDB100X11X0.42	100	11.25°	420
RBDB100X22X0.42	100	22.5°	420
RBDB100X45X0.42	100	45°	420
RBDB100X90X0.42	100	90°	420
RBDB125X11X0.6	125	11.25°	600
RBDB125X22X0.6	125	22.5°	600
RBDB125X45X0.6	125	45°	600
RBDB125X90X0.6	125	90°	600
RBDB150X11X0.61	150	11.25°	610
RBDB150X22X0.61	150	22.5°	610
RBDB150X45X0.61	150	45°	610
RBDB150X90X0.61	150	90°	610

Complies with ENATS 12-24 Class 3 Specification, BS EN 61386-24.

Utilities

Code	Product description	Nominal Size mm	Length mm
RB94X6Y	Gas	94	6
RB94X6BL	Water	94	6
RB94X6G	Cable TV	94	6
RB100X6Y	Gas	100	6
RB100X6BL	Water	100	6
RB100G	Cable TV	100	6
RB150X6Y	Gas	150	6
RB150BL	Water	150	6
RB150G	Cable TV	150	6
RB225X6Y	Gas	225	6
RB225X6BL	Water	225	6
RB300X6Y	Gas	300	6
RB300X6BL	Water	300	6



Complies with BBA13/H205, BBA89/2175, BS EN 61386-24.

Sealing Rings

Code	Nominal Size mm
SRD94	94
SRD100	100
SRD150	150

Power HV Trefoil Clips

Code	Nominal Size mm
RBTC100	100
RBTC125	125
RBTC150	150

Polypipe Civils

Cable Protection Systems

Ridgiduct – Continued

Couplings

Code	Nominal Size mm
RBC94	94
RBC100	100

Complies with ENATS 12-24 Class 3 Specification, BS EN 61386-24.

Motorway Communications Couplers

Code	Nominal Size mm
CRD94	94
CRD100	100
CRD150	150

Split Ducting Couplings

Code	Nominal Size mm
CRBS100	100
CRBS150	150

Black Couplings

Code	Nominal Size mm
RBC100	100
RBC125	125
RBC150	150



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Polyduct

Black Electric Cable Duct Coil

Code	Nominal Size mm	Length m
PD3237X100BEPE	32	100
PD3237X50BEPE	32	50
PD3237X25BEPE	32	25
PD3844X100BEPE	38	100
PD3844X50BEPE	38	50
PD3844X25BEPE	38	25
PD5060X50BEPE	50	50
PD5060X25BEPE	50	25

Complies with ENATS 12-24 Class 3 Specification, BS EN 61386-24.

Lighting Ducting

Code	Nominal Size mm	Angle
PD5060X60	50	6
PD5663X60	56	6
PD100107X60	100	6
PD97107X60	97	6



Lighting Bends

Code	Nominal Size mm	Angle	Radius mm
PDB60X450	60	45°	350
PDB60X900	60	90°	225
PDB63X450	63	45°	350
PDB63X900	63	90°	225
PDB107X450	107	45°	450
PDB107X900	107	90°	450



Black Couplings

Code	Nominal Size mm
PDC32	32
PDC38	38
PDC50	50

Complies with ENATS 12-24 Class 3 Specification, BS EN 61386-24.

Polypipe Civils

Cable Protection Systems



Plugs & Grommets / Duct Spacers

Cable Protection Plug (pack of 40)

Code	Nominal Size mm
DP94	94
DP100	100
RB100X6	100

HAPAS approved, IP47 rated sealed system, complies with BS EN 61386-24.



Blanking Grommets

Code	Product description	Nominal Size mm
DPG0	Blanking Grommet with rope attachment point (pack of 10)	
DPG9	Blanking Grommet (pack of 10)	9
DPG12	Blanking Grommet (pack of 10)	12
DPG14	Blanking Grommet (pack of 10)	14
DPG16	Blanking Grommet (pack of 10)	16
DPG18	Blanking Grommet (pack of 10)	28
DPG21	Blanking Grommet (pack of 10)	21
DPG24	Blanking Grommet (pack of 10)	24
DPG27	Blanking Grommet (pack of 10)	27
DPG9X4	Blanking Grommet (pack of 10)	4X9
DPG9X7	Blanking Grommet (pack of 10)	7X9

HAPAS approved, IP47 rated sealed system, complies with BS EN 61386-24.

Duct Spacers

Code	Product description	Nominal Size mm
RBS110X2	2-way Duct Spacer (to suit 110mm O.D.) Highways Agency requires 1 per metre	94
RBS110X4	4-way Duct Spacer (to suit 110mm O.D.) Highways Agency requires 1 per metre	94
RBS110X6	6-way Duct Spacer (to suit 110mm O.D.) Highways Agency requires 1 per metre	94
RBS118X2	2-way Duct Spacer (to suit 180mm O.D.) Highways Agency requires 1 per metre	100
RBS118X4	4-way Duct Spacer (to suit 180mm O.D.) Highways Agency requires 1 per metre	100
RBS118X6	6-way Duct Spacer (to suit 180mm O.D.) Highways Agency requires 1 per metre	100

Complies with the requirements of MCHW 1525.

Accessories

Terram Marker Tapes / Draw Cord

Terram Marker Tapes

Application Information:

Utilitape™ Underground warning tape (UWT) is a coloured polyethylene underground marker tape with a printed warning message for marking underground buried services. Terram underground warning marker tape is an economical way of warning excavators of buried pipes and cables below ground. Underground warning tapes can be manufactured with any text, in any language, any colour and size manufactured to your specification.

Code	Length m	Width mm	Diameter mm	Area m ²	Mass/ weight kg	Capacity	Material	Colour	Thickness mm	Pack size	Grade
Various	365	150	220	54.75	5	140/rolls per pallet	LDPE	Various	0.1	140/ pallet	Premium

Manufactured in accordance with ENATS 12-23.

Draw Cord

Product description	Length mm
6mm draw cord	220
6mm draw cord (wooden drum)	500



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