

Network Rail PADS Approved Products

Buried Cable Routes Under Track Crossings Fixed Telecom Networks Drainage Catch Pits





Introduction

Rail Industry Experts

Cubis Systems is Europe's leading manufacturer of innovative, lightweight structural access chamber and cable protection systems used in the construction of rail infrastructure networks. Cubis work closely with some of the largest Rail network operators in Europe to provide integrated systems for telecoms, drainage, signalling and power applications.

Cubis' Network Rail PADS approved products offer clients the ideal solution for a wide range of rail and light rail applications. Cubis' composite range of products offer a strong, modular, lightweight and scalable system that can be built on-site, significantly reducing construction costs through time savings.

Certification

Cubis Systems has Network Rail certification covering 3 product ranges. These are available on request.

PA05/00635 Under Track Crossing and Buried Cable Routes PA05/02301 Fixed Telecom Networks PA05/04067 Drainage Catch Pits

Product Codes

This document details the product information as illustrated: Box as in current brochure (Description 2 Cubis Code PADS no.)

Description Description 2 Cubis Code PADS no

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The Cubis approach to innovation in a 'traditional' industry has been to develop and manufacture products from multiple lightweight material types that incorporate intelligent technical design features, and integrate together to replace more

These unique features provide clients with an adaptable PADS

approvals with SNCF (France) and Network Rail (UK). Cubis has Supplier ID: 26055.



Under Track Crossing (UTX)

Cert: PA05/00635



Features & Benefits:

Installed in one day with rapid installation, reducing track possession time

Reduced installation costs

Lightweight and safe

High crush strength MULTIduct™ units

No spacers or graded backfill material required

B125 access cover options available: composite or concrete

Fully customisable, flexible and adjustable on-site

Future-proofed infrastructure

No additional tooling required with only hand adjustment required for backfill barrier adjustment Cubis' under tracking crossing (UTX) system has been approved for use with Network Rail. The modern method of building an under track crossing allows for a faster, safer constructed system reducing track possession times. The UTX system seamlessly incorporates Cubis' STAKKAbox™ access chambers with MULTIduct[™] cable protection system.

The UTX system utilizes the modern alternative to traditional ducting MULTIduct™ an innovative, lightweight, structural, multiple duct system. The easy to handle 1m long 4, 6 or 9 way units are lightweight under 20kg and offer a unique 'one click' push fit connection that is fast and easy to install. Due to its high crush strength MULTIduct™ requires a shallower and narrower burial depth and does not require any concrete or specialist surround. Minimum cover for Network Rail UTXs of 0.6m is easily achievable. Excavated material can be reused during re-installation reducing time, cost, heavy plant and disposal of excess material.

See page 7 for more information on the available MULTIduct™ options.

Access Chamber system

Complete systems with MULTIduct™ spigots for easy connection

Chamber Type	Clear Opening (mm)	Depth (mm)	MULTIduct™	Cover Type (B125 loading)	Base	CUBIS Code	PADS no
ULTIMA	1310 x 610	600	4-Way	Concrete	Standard Base	SYULD4-13100610-IR04TBA0C	087/004536
ULTIMA	1310 x 610	600	6-Way	Concrete	Standard Base	SYULD6-13100610-IR04TBA0C	087/004537
ULTIMA	1310 x 610	600	9-Way	Concrete	Standard Base	SYULD9-13100610-IR04TBA0C	087/004538
ULTIMA	1310 x 610	600	4-Way (XL)	Concrete	Standard Base	SYULDX-13100610-IR04TBA0C	087/004539
ULTIMA	1310 x 610	600	4-Way	Composite	Standard Base	SYULD4-13100610-CR04LBE8C	087/004532
ULTIMA	1310 x 610	600	6-Way	Composite	Standard Base	SYULD6-13100610-CR04LBE8C	087/004533
ULTIMA	1310 x 610	600	9-Way	Composite	Standard Base	SYULD9-13100610-CR04LBE8C	087/004534
ULTIMA	1310 x 610	600	4-Way (XL)	Composite	Standard Base	SYULDX-13100610-CR04LBE8C	087/004535

MONObox™ POLYVAULTS



Chamber sizes are reflective of the clear opening of the inside of the chamber Other clear opening sizes are available Please Contact Us for more information

POLYVAULT Chamber ONLY 915mm x 915mm

REQUEST PRODUCT CODE PADS no: 087/005178

B125 Concrete-Infill Cover ONLY Galvanised Steel Frame FCCIMP-09150915-00R0TB002

Base Plate ONLY Black ABS CPPV36-09150915-36000000C

PADS no: 087/005180 **Base Plate ONLY**

PADS no: 087/005179

Heavy Duty black HDPE CPPV36-09150915-36000000E PADS no: 087/005181

Complete chambers, supplied with:

- Concrete Infill frame and cover (B125) - ABS Base Plate

 - Step Irons

Complete POLYvault Chamber 1220mm x 1220mm REQUEST PRODUCT CODE

Complete POLYvault Chamber 1530mm x 1220mm

REQUEST PRODUCT CODE PADS no: 087/005181

PADS no: 087/005180

Different Depths

POLYvault chambers can be manufactured and are approved in the following depths:

• 470mm • 560mm

• 660mm

• 760mm

• 910mm

• 1015mm • 1220mm

• 1320mm

• 1420mm

- 1120mm
- 1525mm • 1625mm
- 2032mm • 2134mm
- 1728mm • 2235mm
- 1830mm
- 1930mm
- 2340mm • 2440mm

Cert: PA05/00635



Features & Benefits:

Rapid installation, reducing track possession time

Reduced installation costs

100m duct runs

Lightweight and safe

Easier to pull cables through than traditional ducting systems

Enhanced security

Seamless integration with STAKKAbox™ access chamber system

High crush strength MUI TIduct™ units

No spacers or graded backfill material required

Fully customisable, flexible and adjustable on-site

Compatible with existing ducting and troughing

Future-proofed infrastructure

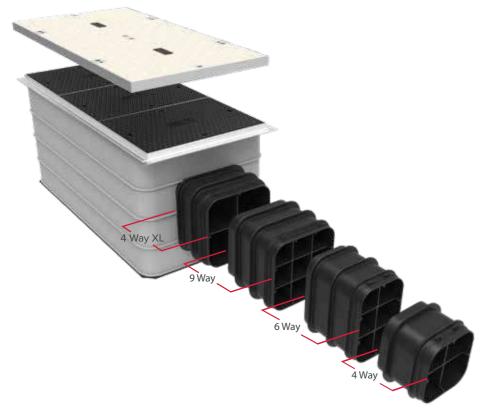
Cubis' Network Rail PADS approved buried cable route system has been designed and developed to offer a modern alternative to traditional methods for burying trackside cabling offering enhanced security to telecommunications, power and signalling networks. Providing a seamless integration between Cubis' STAKKAbox™ chamber access and MULTIduct™ cable protection products, the buried cable route system delivers reduced track possession times through easier and safer installation, assembly of system and improved build quality.

Buried Cable and

Linear Routes

The buried cable route system utilises Cubis modern alternative to traditional ducting MULTIduct™ an innovative, lightweight, structural, multiple duct system. The easy to handle 1m long 4, 6 or 9 way units are lightweight under 20kg and offer a unique 'one click' push fit connection that is fast and easy to install. MULTIduct™ has an extensive range of flexible accessories that enables the system to deal with tight turns, elevations and other obstacles.

MULTIduct™ provides 2° of flexibility within its connection, resulting in the creation of a natural bend that can follow the curvature of a track. Due to its high crush strength MULTIduct™ requires a shallower and narrower burial depth and does not require any concrete or specialist surround. Minimum cover for Network Rail of 0.6m is easily achievable. Excavated material can be reused during re-installation reducing time, cost, heavy plant and disposal of excess material.



MULTIduct™



PADS no: 087/004520





PADS no: 087/004524



Unit	4-Way	6-Way	9-Way	4-Way XL (160mm)					
	MULTIduct™	MULTIduct™	MULTIduct™	MULTIduct™					
	DUMDD4-00004WAY-BK0000000	DUMDD6-00006WAY-BK0000000	DUMDD9-00009WAY-BK0000000	DUMDX4-00XL4WAY-BK0000000					
	PADS no: 087/002803	PADS no: 087/002804	PADS no: 087/002805	PADS no: 087/004540					
Single Duct Adapters									
	DUMDD4-00004WAY-GRDA000000	DUMDD6-00006WAY-GRDA000000	DUMDD9-00009WAY-GRDA000000	DUMDX4-00XL4WAY-GRDA000000					

PADS no: 087/004522



DUMDD4-00004WAY-BK0000SPD DUMDD6-00006WAY-BK0000SPD DUMDD9-00009WAY-BK0000SPD PADS no: 087/004528 PADS no: 087/005175 PADS no: 087/004530

DUMDX4-00XL4WAY-BK0000SPD PADS no: 087/005297

PADS no: 087/004526



DUMDX4-00XL4WAY-BK0000SOD DUMDD6-00006WAY-BK0000SOD PADS no: 087/004527 PADS no: 087/005174

DUMDX4-00XL4WAY-BK0000SOD PADS no: 087/004529 PADS no: 087/005296



DUMDD4-00004WAY-BK0000S*E PADS no: 087/005301

DUMDD6-00006WAY-BK0000S*E DUMDD9-00009WAY-BK0000S*E PADS no: 087/005303 PADS no: 087/005305

DUMDD4-XLP04WAY-BK0000S*E PADS no: 087/005299

End Caps Sockets



DUMDD4-00004WAY-BK0000SO PADS no: 087/005300

DUMDD6-00006WAY-BK0000SO PADS no: 087/005302

DUMDD9-00009WAY-BK0000SC PADS no: 087/005304

DUMDD4-XLP04WAY-BK0000SO* PADS no: 087/005298

Y' Lateral



22.5° 4-way PADS no:

DUMDD6 DUMDD6 100022.5 100022.5 RKMM**000 RKMM**000

** denotes up & down (UD) or left & right (LR)

45° 4-way

087/004513

22.5° 6-way flat 45° 6-way flat DUMDD6-10000045 RKMM**000

087/004515

DUMDD6 DUMDD9-DUMDD9 RKMM**000 RKMM**000 087/004516 087/004517

22.5° 9-way

RKMM**000 PADS no:

45° 9-way



22.5° Y' Lateral for 160mm flexible duct AC0000-22.5PIPE-010000000

PADS no: 087/004508

160mm flexible duct AC0000-0045PIPE-010000000

PADS no: 087/004509

087/004514

22.5° Y' Lateral for 110mm flexible duct AC0000-22.5PIPE-020000000

PADS no: 087/004510

Rubber Gasket (100 / 75 per box)

45° 6-way tall

110mm flexible duct AC0000-0045PIPE-02000000

PADS no: 087/004511

Spring Clips - STEEL CLIP ONLY (600 per box)



ACDM00-00000000-00DC00000 PADS no: 087/005176



ACDMD6-00006WAY-00DG00000 PADS no: 087/005177

For more information on MULTIduct™, please request our cable protection guide.

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Fixed Telecommunications Network (FTN)

Drainage Catch Pit (FLEXI Pit)



Installed in one day with rapid installation, reducing track possession time

Reduced installation costs

Lightweight and safe

Pre-fitted accessories option available

B125 access cover options available: composite or concrete

Fully customisable, flexible and adjustable on-site

Compatible with existing ducting and troughing networks

Stores up to 450m of cable

Future-proofed infrastructure

Cubis' Network Rail PADS approved trackside FTN system has been designed and developed to offer a modern alternative to traditional methods for storage of trackside cabling, offering enhanced security to power, telecommunications and signalling cables. Providing a seamless integration between Cubis' STAKKAbox™ chamber access and MULTIduct™ cable protection products, the FTN system delivers reduced track possession times through easier and safer installation, assembly of system and improved build quality.

The FTN system utilizes the STAKKAbox™ ULTIMA access chambers. A lightweight modular scalable solution that can be built and adjusted onsite. The STAKKAbox™ system significantly reduces costs through reduced construction times, whilst providing a structural unit that will support loadings imparted from vehicles and passing trains.

The STAKKAbox™ ULTIMA system is made from a GRP material that is not affected by diesel, ground acids, alkalines or frost unlike traditional access chamber systems such as brick and concrete. Cubis' FTN system provides storage of up to 450m of cabling allowing clients easy and safe access.

Complete Chambers

Cert: PA05/02301

Also available Bellmouth 110 ACBMMP-0110 PADS no: 054/160759





Access chamber with B125 concrete cover

1310mm x 610mm x 662mm SYUL06-13100610-IR04TBA0C PADS no: 054/160755



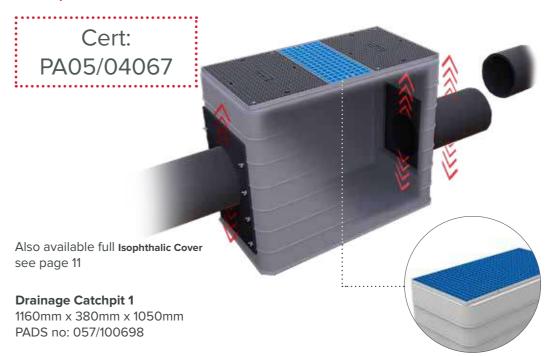
Access chamber with 12.5T composite cover

1310mm x 610mm x 656mm SYUL06-13100610-CR04LBE8C PADS no: 054/160757 Cubis' Network Rail PADS approved track-side drainage inspection chamber system FLEXI Pit has been designed and developed to offer a modern alternative to traditional methods with an adaptable pipe invert level.

The system incorporates a unique sliding backfill barrier that is easily adjusted on-site during installation. The backfill barrier allows for up to 150mm vertical adjustment to achieve the correct pipe invert level required and can accommodate pipes from 150mm to 450mm (internal dimension). This unique system removes the need for individual detailed technical drawings, with the added benefit of being the only system to offer chamber height alteration by adding 150mm STAKKAbox™ ULTIMA ring sections until the desired depth is achieved. This allows for quicker install reducing track possession times.

The FLEXI Pit drainage system is created from Cubis' STAKKAbox $^{\mathbb{M}}$ ULTIMA access chamber system. The ULTIMA provides a modular scalable solution available in a variety of sizes that are easily adaptable, lightweight, fast and easy to install. Seamless integration with Cubis' chamber accessories and AX-S $^{\mathbb{M}}$ concrete and composite access covers provides clients with a complete underground drainage system solution.

Complete Chambers



Drainage Catchpit 2

1200mm x 600mm x 1050mm PADS no: 057/100699

Drainage Catchpit 3

1310mm x 850mm x 1050mm PADS no: 057/100660

Pipe dimensions can be specified at point of order

Features & Benefits:

Rapid installation & reduced track possession time

Reduced installation costs

Lightweight and safe

Fully customisable, flexible and adjustable on-site

Compatible with existing drainage networks

Compatible with both smooth and twin wall pipes (150mm, 225mm, 300mm and 375mm)

Access cover options available: Full and part composite covers or full isophthalic grate cover for ease of inspection

No additional tooling required with only hand adjustment required for backfill barrier adjustment

age 8

Accessories

Industry Experts

Chamber Ring Sections

Cubis' range of accessories has been designed to improve and enhance the existing systems, reduce build time and ensure safety with each accessory unique to the specific network operators requirements. Accessories include, duct entries, chamber ring sections for increased chamber depth a range of access covers depending on installation and access cover lifting keys.



STAKKAbox™ ULTIMA section 1200mm x 600mm x 150mm CPULRS-12000600 PADS no: 057/100696

1160mm x 380mm x 150mm CPUI RS-11600380

1200mm x 1200mm x 150mm CPULRS-12001200 PADS no: 087/005205

1310mm x 610mm x 150mm CPULRS-13100610 PADS no: 054/160756

1310mm x 850mm x 150mm CPULRS-13100850 PADS no: 057/10065



STAKKAbox™ ULTIMA base 1310mm x 610mm x 160mm CPULBS-13100610 PADS no: 054/160758

1200mm x 600mm x 160mm CPUI RS-12000600 PADS no: 057/00691

1160mm x 380mm x 160mm CPULBS-11600380 PADS no: 057/100692

1310mm x 850mm x 160mm CPULBS-13100850 PADS no: 057/100657

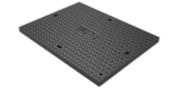


Access Covers



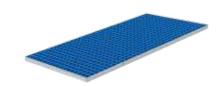
Concrete-Infill Cover 610mm x 610mm COCI05-00000000-00000B001 PADS no: 054/160760

Galvanised Steel Frame to Suit 1310mm x 610mm x 52mm REQUEST PRODUCT CODE



Composite Cover 600mm x 450mm COCOMP-06000450-00000BE81 PADS no: 054/160761

Galvanised Steel Frame to Suit 1310mm x 610mm x 30mm FOFS06-13100610-CSR70B002



Isophthalic Cover 1160 x 380 x 150mm PADS no: 057/100694

Isophthalic Cover 1200 x 600 x 150mm PADS no: 057/100693 Isophthalic Cover 1310 x 850 x 150mm PADS no: 057/100658

Lifting Keys



Concrete-Infill Cover Lifting Key ACLKT2-00000000-000000000



Composite Cover Lifting Key ACLKSK-00150000-000000000



Concrete-Infill Locking Key ACLKTK-00000000-000000000

Cubis' products are innovative, lightweight and significantly reduce costs of in-situ construction through time savings. Cubis integrated systems approach offers our customers a complete range of access chambers, access cover and cable protection systems. These products have been installed worldwide into key construction sectors Telecoms, Highways, Rail/Light Rail, Water and Power & Energy. Cubis' products are used within many different applications within each sector from buried cable routes to network access solutions.

Access Chamber System:

Cubis' STAKKAbox™ access chamber systems are adaptable to the unique requirements of each site. This means ordinary site tools can be used to retrofit chamber systems around existing networks by drilling duct entries or cutting the chamber sections horizontally. The seamless integration across the Cubis product range enables the construction of bespoke systems that significantly reduce costs of access chamber construction through time savings. Cubis' chamber options & accessories range allows installers the ability to simply place, connect ducts, backfill and walk away.



Cable Protection:

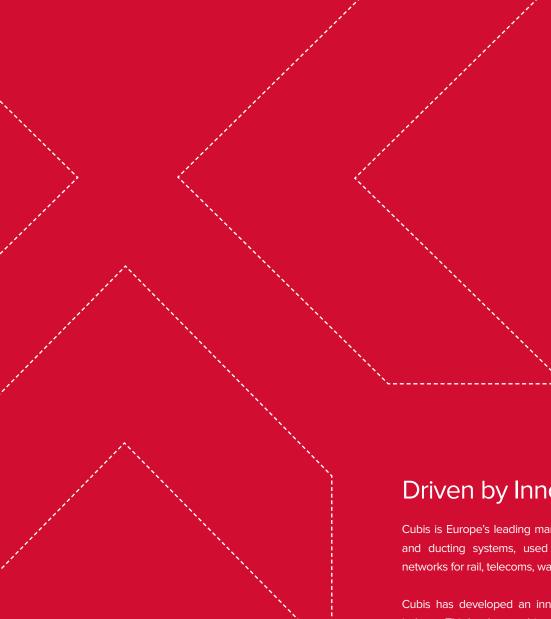
Cubis' cable protection systems MULTIduct™, PROtrough, RAILduct™ and MM RAILduct™ offer innovative, lightweight, secure cable protection systems that have been used worldwide in a range of sectors and applications. Cubis' cable protection systems comprise of 1 metre long units that connect together allowing for rotation in the units to deal with tight turns, elevations, natural curvature and other obstacles. Due to their light weight properties Cubis' cable protection systems offer significant health and safety advantages over traditional systems.



AX-S[™] Access Covers:

The Cubis AX-S™ range of access covers provide customers with a complete underground network system, designed and manufactured from a range of materials to complement our access chamber systems. The AX-S™ range can be tailored to meet specified loading requirements from pedestrian up to carriageway duty and are available in a wide range of clear opening dimensions, depths, security features, frame types and bespoke badging. The Cubis AX-S™ range consists of concrete infill, recessed, composite and steel fabricated.





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Driven by Innovation

Cubis is Europe's leading manufacturer of network access chamber and ducting systems, used in the construction of infrastructure networks for rail, telecoms, water, construction and power markets.

Cubis has developed an innovative approach in an old-fashioned industry. This has been achieved by developing quality products which replace traditional construction materials, like bricks and concrete, with lightweight plastics incorporating intelligent design features. These can then be installed faster and ultimately save our customers both time and money.

Cubis manufactures preformed network access chamber systems STAKKAbox™, AX-S™ access covers, cable protection, MULTIduct™ and PROtrough cable trough at its manufacturing sites throughout the UK and Ireland these products are exported to more than 25 countries throughout the World.

At Cubis we pride ourselves on delivering technical customer support, new innovation, product quality and the highest levels of customer satisfaction.

Ordering Information

For pricing, order codes and any other information, contact the UK Sales Office.

