

TUDS UNDERGROUND PITS

UTILITY VAULTS FOR ALL UNDERGROUND SERVICES



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ABOUT TRANSNET NZ LIMITED

TRANSNET COMPANY OVERVIEW

At TransNet we offer a large range of products to the Electrical Distribution, Transmission, Rail, OEM and Wholesale industry. We have the expertise and knowledge to assist with equipment specification as well as providing hands on service and support in the field.

With three stocking distribution facilities in Australasia, and 24hr contact, TransNet is able to offer local support and fast delivery.

TransNet is one of the largest suppliers to our industry in Australasia, offering the most diverse range of products and support. We have a switchgear workshop, an R&D workshop and a Raychem kitting room on site in our Auckland Head Office and we are well equipped to offer training and support for all our products.

At TransNet we pride ourselves on the ability to react quickly to any situation and have product to you whenever and wherever you need it. Our staff are knowledgeable and happy to help, we have a number of technical specialists in a range of product areas, all ready to assist if and when required.

As the sole New Zealand Distributor of TE Connectivity Energy products including brands such as Raychem, Utilux, AMP and Guro, we have the local and international support and expertise of one of the largest manufacturers in our business. TE Connectivity Energy has a research and development programme second to none, continuously improving existing products, while designing and testing new products to improve network reliability. We are proud to offer an extensive range of quality brands from around the globe for a holistic approach to supply in the electricity industry.



ENVIRONMENTAL RESPONSIBILITY

TransNet is a Carbon Conscious Company that takes environmental responsibility seriously. As part of our commitment to the environment we have implemented a

range of policies and practices to do our part in protecting the environment. We have achieved ISO 14001 and ISO 14064-1 certification for quantification and reporting of GHG emissions and removals. In addition to this, we have the first and only fully functioning Micro Grid of its kind in New Zealand right here at our head office, with 150kW of solar generation and a 30kW/130kWh smart storage system, we're able to power our entire operation for most of the day.






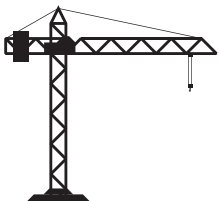



We're already moving to reduce our impact even more by adding electric vehicles to our fleet and using our solar farm to charge them.



TUDS PIT LOAD RATING GUIDE

WHICH CLASS RATING DO YOU REQUIRE

Type	Class	Typical Use	Nominal Wheel Loading (kg)	Serviceability Design Load (kN)	Ultimate Limit State Design (kN)
	A	Pedestrian accessible areas. Not suited to vehicles.	330	6.7	10
	B	Suitable for residential driveways and footpaths. Low speed vehicles.	2,670	53	80
	C	Residential roads and car parks where slow moving vehicles will be present.	5,000	100	150
	D	Major roads including motorway shoulders, and areas with heavy vehicle traffic like warehouse yards, and loading docks.	8,000	160	240
	E	Motorway carriageways. High traffic volumes including heavy vehicles.	13,700	267	400
	F	Airport taxiways, docks and wharves, for exposure to heavy vehicles and high traffic volumes.	20,000	400	600
	G	Airport runways, docks, and wharves, for exposure to heavy vehicles and high traffic volumes.	30,000	600	900

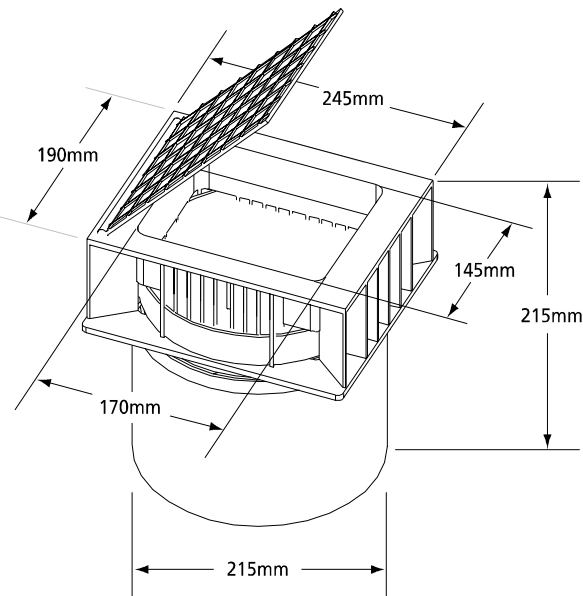
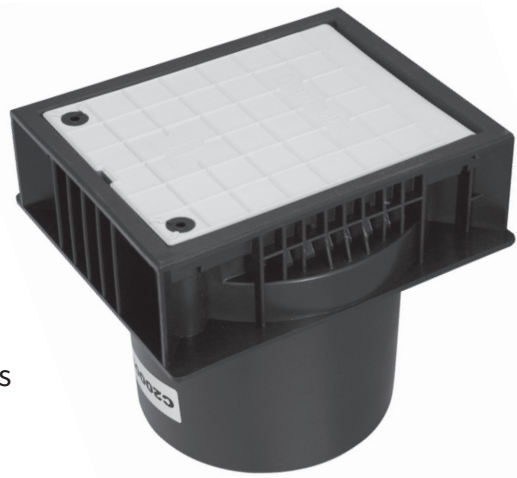
EARTH ROD INSPECTION BOX

C2000930 - ERICO EARTH ROD INSPECTION BOX

The ERITECH PIT03 (C2000930) offers a high level of protection for critical grounding terminations through the use of its lockable lid. Ease of maintenance of the ground termination is gained by way of the large working aperture once the lid is unlocked using the security key. Due to its lightweight robust construction the ERITECH PIT03 can withstand 5 tonnes making it ideal for installation in heavy traffic areas.

FEATURES

- Offers a high level of protection for critical grounding terminations through the use of its lockable lid
- Easy-locking lid only opened with security key
- Ease of ground termination maintenance due to large working aperture
- Lightweight design allows easy handling, storage and transportation
- Suitable for both paving and hot tar applications
- UV-stabilized against degradation by sunlight
- Non-brittle to prevent cold weather damage
- Base designed to accommodate Grounding Busbar for Inspection Housing (545135)
- Security access key included



PRODUCT INFORMATION

Product Code	Description	External Dimensions (mm)
C2000930	Secure, Hinged Lid, Earth Rod Inspection Box	215H x 215D x 190W x 245L

TUDS FIBRE/TELCO PIT

TUDSPE9HD - UNIVERSAL FIBRE/TELCO PIT

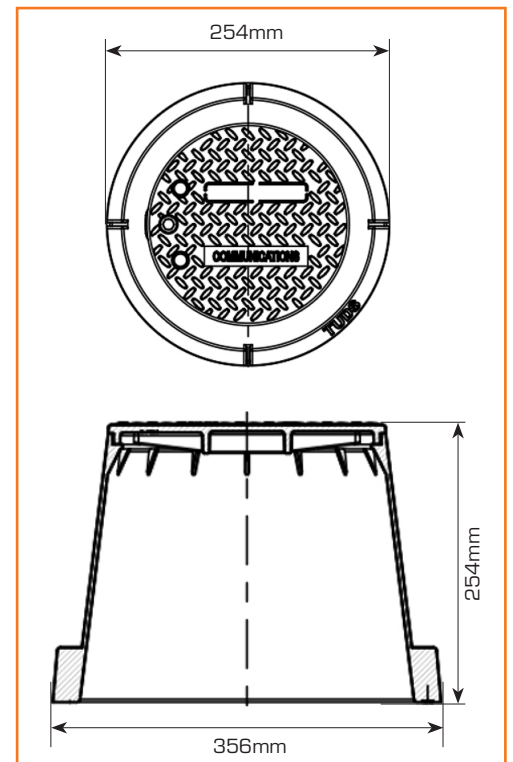
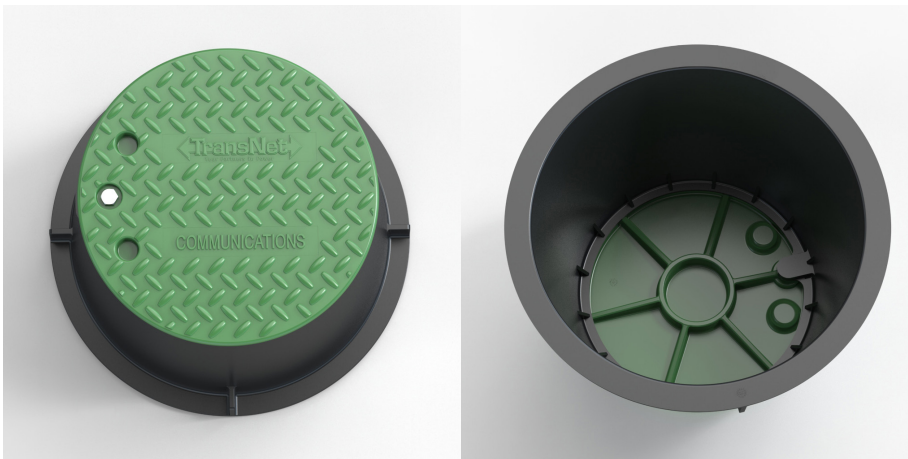
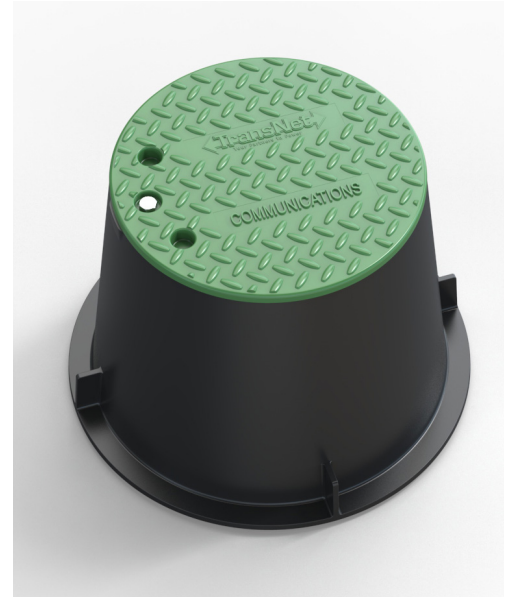
Because they're so versatile, these pits are widely used in electrical, telecommunications and water industries but their size makes them perfect for many more applications. Made of high quality SMC (Sheet Molding Compound) material makes this robust enclosure strong, lightweight and easy to handle.

The lip at the base of the pit helps secure it in the ground and resist any movement once installed. The open nature of the base allows for any number of applications.

We can discuss options around including your company logo (quantity dependent, but please talk to us if this is something you are interested in).

FEATURES

- SMC Base & Lid
- Flush insert Lid mount
- Class A load rating
- Custom branding available (MOQs apply)
- Bolted Cover
- Large working aperture
- UV stabilised materials protect against degradation by sunlight
- Open pit base offers flexibility in use options



PRODUCT INFORMATION

Product Code	Description	Dimensions (mm)
TUDSPE9HD	Open bottom pit with bolted lid	254H x 254Ø (top), 356Ø (bottom)

TUDS DISTRIBUTION PIT

TUDS325S - DISTRIBUTION SERVICE PIT

TUDS offers unprecedented flexibility to the placement of utility services and access points. Designed specifically for the New Zealand market, this system considers and accommodates the many challenges faced by asset owners when building and maintaining their networks in busy suburban residential and commercial areas.

TUDS lids latch into place and require a tool to access them. If the latch alone is not adequate for your requirements, we have a stainless steel spring lock available, which when fitted, is operated by a special triangle access key. The spring action ensures the lid is never left “unlocked”.

The TUDS325S range of pits is also available as a kitset for service connections in the electricity industry. If you're looking for a TUDS kit including electrical components please contact us or find them on our website.



FEATURES

- Fast and simple to install
- Fully recyclable at end of life
- TUDS325S tested to withstand 80kN downward force Class B (TUDS325L Class A rated)
- Completely submersed/ground mount – protected from impact and vandalism, space saving
- Latch and key lock available
- Sturdy and UV stable – made in NZ from the best materials and tested to ensure longevity
- Lockable lids are available
- Two styles of base are available
- Custom branding and colours available (MOQs apply)
- Waka Kotahi NZ Transport Agency Approved (TUDS325L)



TUDS325S



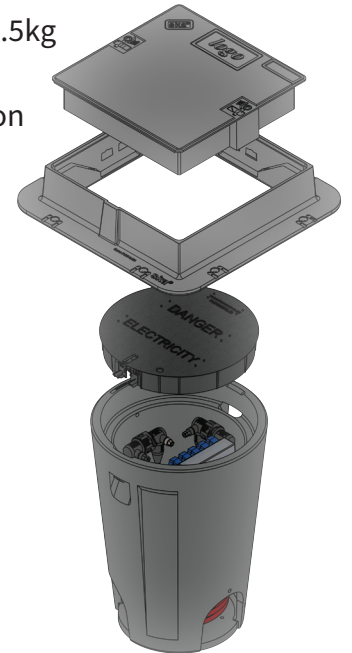
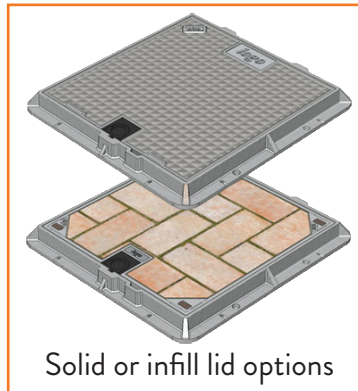
TUDS325L



TUDS DISTRIBUTION PIT

CLASS D COVER SET FOR TUDS325S RANGE

- V shaped seating between cover and frame to remove movement & noise issues
- Stainless Steel quarter turn spring loaded latch creates cover clamping force & is compliant to standards for IPD
- Marine Grade, corrosion resistant materials
- 50 year warranty
- 100% recyclable cover set
- Lightweight, strong, durable Aluminium access covers & frames. Compliant with loading & slip AU/NZ/EU resistance standards
- Dimensions: 400 X 400mm
- Standard: AS 3996:2006
- Design Load: Class D 210kN (Roadway)
- Weight: 31kg, Heaviest Part: 16.5kg
- Security: Bolting, Torque Coupling Required for Operation
- Surface Options: Solid or Infill
- Fits snugly over standard TUDS enclosures



PRODUCT SELECTION

Product Code	Product Type		Description
TUDS325S	PIT		Standard pit
TUDS325SLOCK			Standard pit with slit for lock
TUDS325LPITNZTA			Large pit
TUDS325LPITNZTALOCK			Large pit with slit for lock
TUDS325SLID	LID		TUDS lid
TUDS325SLIDLOCKING			TUDS lid with lock
PITLIDKIT	PIT & LID COMBO		Standard pit with TUDS lid
TUDS325LNZTA			Large Waka Kotahi NZ Transport Agency pit with lid
TUDCLASSCD-IN	Class D Cover Set		CLASS C/D Cover set 400mm X 400mm - Infill Paver
TUDCLASSCD-ST			CLASS C/D Cover set 400mm X 400mm - Solid Top

TUDS MODULAR PIT

MODULAR, VERSATILE, CONVENIENT

As the newest member of the TUDS family, this range of flat pack, modular pits offers a solution for installations across multiple industries around the country.

Designed in New Zealand for New Zealand's unique conditions and applications. the modular design, ribbed wall panels, bolt free assembly and flat packed style (for shipping and storage) make these pits perfect for any installation.

Manufactured from innovative fiberglass reinforced composite material making it strong, lightweight, non-leaching and corrosion resistant.

With shipping and storage being a challenge when working with bulky pits, the TUDS modular range can save up to 76% of finished build volume when shipping or in storage because of the simple and effective flat pack, kitset nature of their design.



RANGE – From 450mm to 1500mm across and 300mm to 1200mm deep, this range offers a solution for almost any application.

DESIGN – The sidewall Beam-Structure reinforces and locks the pit into the ground making it much stronger once installed.

STRENGTH – Class C150 rated as per AS3996:2019 as standard, Class D rated lids available on request.

SAFETY – Keeping pedestrians safe with P5 rated slip resistance to AS4596:2013.

LIGHT – 90% lighter than concrete alternative, each panel is easily lifted by one person.

SMC MATERIAL – Resistant to temperature fluctuations, non-conductive, anti-corrosion, transparent to radio waves and non-leaching.

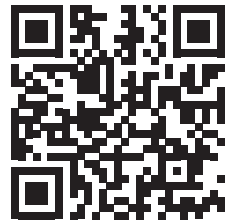
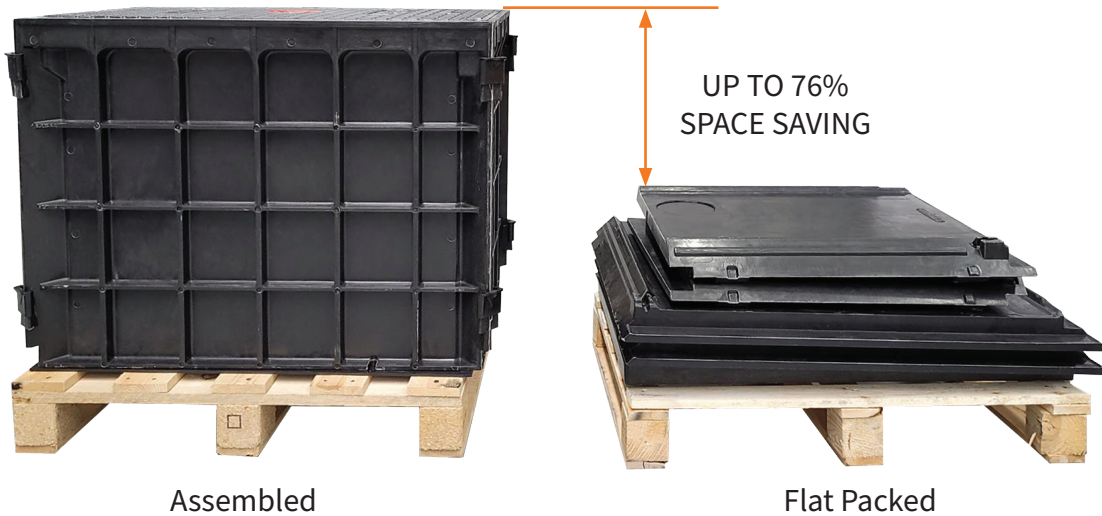
EASY INSTALLATION – The knock down panel and bolt free design coupled with no need for large lifting equipment saves time and money.

ANTI-TAMPER BOLTS – All TUDS modular pits come with special anti tamper bolts for security and public safety. The standard EPTOOL (used with our ECOPillar range) fits these bolts.



TUDS MODULAR PIT

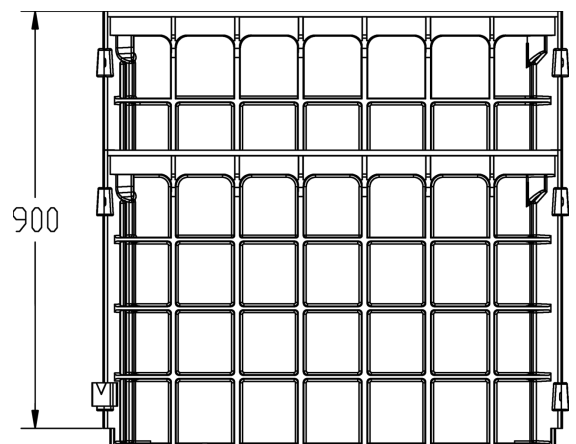
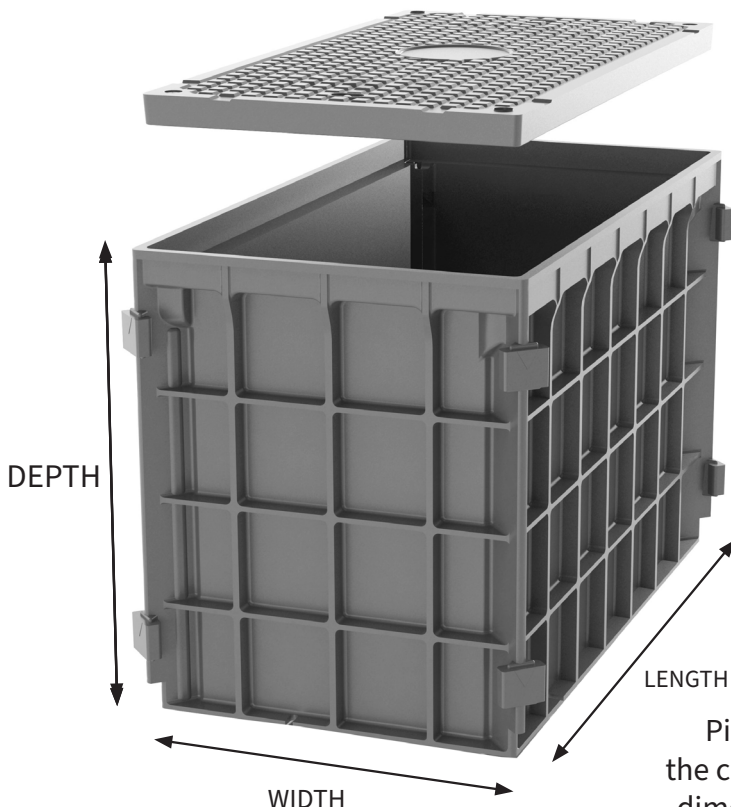
FLAT PACK DESIGN



Fast and simple
to assemble,
watch us do it
in 3 minutes!

Historically shipping pits and enclosures has meant shipping a lot of fresh air. That is not the case with the TUDS Modular Pit range, these pits come flat packed saving up to 76% of the space an assembled pit will take up. These pits are shipped as Individual pieces so they are easily moved by hand if necessary. Storage and shipping costs can be reduced significantly with this range.

PRODUCT SELECTION



In order to achieve 900mm - 1500mm deep pits, one set of side walls need to be nested inside the other.

Pit sections are measured by the internal dimensions of the chamber. Attention should also be paid to the external dimensions when deciding whether the pit will fit into the intended installation area.

TUDS MODULAR PIT

HOW TO ORDER YOUR TUDS MODULAR PIT KITSET

The beauty of our modular pit range is that you can order exactly what you need with nothing you don't!

Simply select the standard pit that closest fits your requirements. If you need more depth select a riser appropriate to your requirements and add that to your order. The last step is to choose from a Class C or Class D lid.

We have different identification discs available, you can specify this when ordering and if you need plugs to cover the lid bolts simply add them too - they're supplied in packs of four.

Since these modular pit kitsets are all flat packed, we'll pick based on the products you've ordered and send them out to you for installation when you need them - simple as that.



BASE - Choose base with dimensions that suit

LID - Choose from Class C or Class D lid

RISER - Choose riser if more depth is required

EXTRAS?? - Specify identification disc bolt hole plug requirements when ordering.



IDENTIFICATION DISC - Choose appropriate disc



BOLT PLUGS - Supplied in packs of four

TUDS MODULAR PIT

BASES

Determine the width and length required for your application by choosing from the base options listed in the table below.

Product Code	Width (mm)		Length (mm)		Depth (mm)
	External	Internal	External	Internal	Internal
TUDS303030	390	300	390	300	300
TUDS453030	390	300	540	450	300
TUDS454560	540	450	540	450	600
TUDS456060	540	450	690	600	600
TUDS457560	540	450	840	750	600
TUDS459060	540	450	1050	900	600
TUDS606060	690	600	690	600	600
TUDS609060	690	600	1050	900	600
TUDS759060	840	750	1050	900	600
TUDS7512060	840	750	1350	1200	600
TUDS9012060	1050	900	1350	1200	600
TUDS12012060*	1350	1200	1350	1200	600

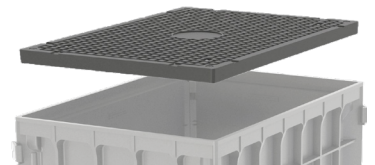
*Available as Class B only



CLASS C LIDS

Class C lids are available to fit any of the TUDS modular range, when ordering please choose a Class C rated lid from the chart below if that is what is required.

Product Code	Width (mm)	Length (mm)	Weight	No. of Pieces
TUDS3030CLID	360	360	7.9 kg	1
TUDS4530CLID	510	360	11 kg	1
TUDS4545CLID	510	510	16 kg	1
TUDS4560CLID	510	660	18 kg	1
TUDS4575CLID	510	810	22.5 kg	1
TUDS6060CLID	660	660	25.2KG	1
TUDS6090CLID	660	480	21.5 kg/pce	2
TUDS75120CLID	810	630	33.8 kg/pce	2
TUDS90120CLID	960	630	39.6 kg/pce	2

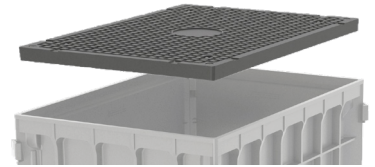


TUDS MODULAR PIT

CLASS D LIDS

Class D lids are available to fit any of the TUDS modular range, when ordering please choose a Class D rated lid from the chart below if that is what is required.

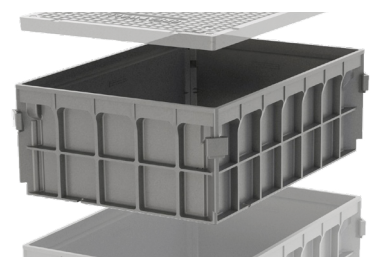
Product Code	Width (mm)	Length (mm)	Weight	No. of Pieces
TUDS3030DLID	360	360	10.2 kg	1
TUDS4530DLID	510	360	13.8 kg	1
TUDS4545DLID	510	510	19.5 kg	1
TUDS4560DLID	510	660	24.4 kg	1
TUDS4575DLID	510	810	29 kg	1
TUDS6090DLID	660	960	43.8 kg	1
TUDS75120LID	810	630	43.5 kg/pce	2



RISERS

When extra height is required, these modular pits are easy and fast to extend. Simply purchase the riser you need and connect it to the pit in the same manner as the initial build. All risers add 300mm of additional depth to the pit.

Product Code	Width (mm)		Length (mm)		Depth (mm)
	External	Internal	External	Internal	Internal
TUDS4575RISER100	540	450	840	750	100
TUDS6090RISER100	690	600	1050	900	100
TUDS4545RISER300	540	450	540	450	300
TUDS4560RISER300	540	450	690	600	300
TUDS4575RISER300	540	450	840	750	300
TUDS6060RISER300	690	600	690	600	300
TUDS6090RISER300	690	600	1050	900	300
TUDS75120RISER300	840	750	1350	1200	300
TUDS90120RISER300	1050	900	1350	1200	300



TUDS MODULAR PIT

IDENTIFICATION DISCS

Interchangeable identification discs are available for fast and easy identification of pit contents. Custom colours & text available on request, contact us for details.

Product Code	Colour	Description
TUDSPUCKELECTRIC	RED	ELECTRICITY
TUDSPUCKTELCO	GREY	TELECOMMUNICATIONS
TUDSPUCKWATER	BLUE	WATER
TUDSPUCKGREY	GREY	BLANK / CUSTOM



BOLT HOLE COVERS

Improve pedestrian safety even more with bolt covers. In addition to reduction in pedestrian trip hazard, the bolt covers keep bolts clean and reduce the chance of debris and mud impacting accessibility.

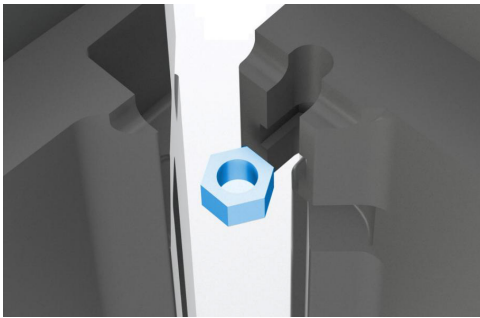
Product Code	Colour	Description
TUDSBOLTPLUG	BLACK	PLUG / COVER FOR LID BOLTS



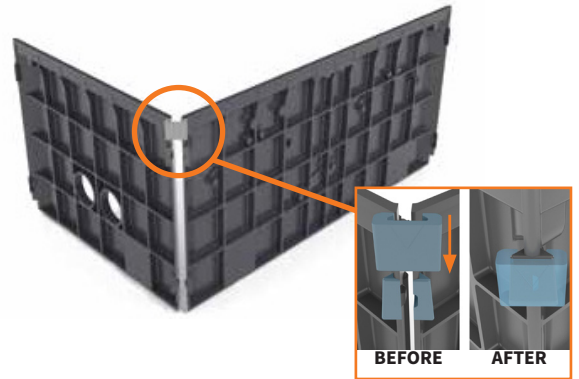
TUDS MODULAR PIT

HOW TO ASSEMBLE YOUR TUDS MODULAR PIT KITSET

STEP 1 – Place M12 nut between the short and long wall panels you're about to join.



STEP 2 – Connect one short wall to one long wall vertically with two fastclips at the connection angle.



STEP 3 – Connect the remaining short wall to the other end of the long wall with two fastclips as per steps 1 & 2.



STEP 4 – Connect the last long wall in the same way, ensure all four walls are connected securely with two fastclips each



STEP 5 – If required, build a second chamber section and stack it on top of the first section. Knock corners into place until they are tightly matched.



STEP 6 – If a base is required, place chamber on top of base panel and secure with clips to connect it.




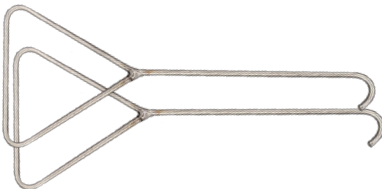


TOOLS FOR ACCESSING TUDS PITS

TOOLS

Security and accessibility are two important factors when choosing the right pit enclosure for your application. We've made this easy with dedicated tools for our pits.

Select the tools you require from the table below.



Product Code	Image	Description	Pit Type
EPTOOL		FOUR WAY MULTI KEY FOR PITS, CABINETS, PILLARS	TUDS MODULAR RANGE
TUDSDPLTOOL		TUDS MODULAR PIT LID LIFTING TOOL PAIR	TUDS MODULAR RANGE
TUDCLASSDLT		CLASS C/D PIT LIFTING TOOL	SIKA CLASS D COVER SETS
0-0361414-3		TUDS PIT LID LIFTER FOR PIT 300D	TUDS325 RANGE

COMPLIANCE

QUALITY YOU CAN RELY ON

We know that quality, safety and reliability are key drivers when sourcing products to complete your projects. When it comes to our TUDS range, we've taken the guess work out! Rest assured we've thought of everything!

TESTING

The TUDS modular pit range has been tested to the following standards;

- Load Testing to AS3996.2019
- Lateral Sidewall testing to ANSI-SCTE-77-2013 application TIER 22
- Friction resistance testing to AS4586.2013
- P5 Slip resistance rating as per AS/NZS3661.1.1993
- UV Testing as per ISO 4892-2 Method A

Independent testing by SGS, Opus WSP, BRANZ and SAI global and Manufactured under ISO9001 and ISO14001 quality management standards.



INDUSTRY APPROVALS

We've also gained the following approvals to help when specifying our TUDS pits into your projects;

- Approved by Various city councils (contact us for specific details)
- Approved by **Water Care**
- Zero signal interference as tested by **Vodafone**
- Meets the requirements **Ministry of Education** Cabling infrastructure Guide
- Meets the requirements of **Waka Kotahi** jointing chambers and pull pits ITS 2020

For more information on where our products are approved for use, or for copies of Test Reports, please contact our team +64 9 274 3340 or sales@transnet.co.nz



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