



THE -NEW ERA- IN POWER DISTRIBUTION



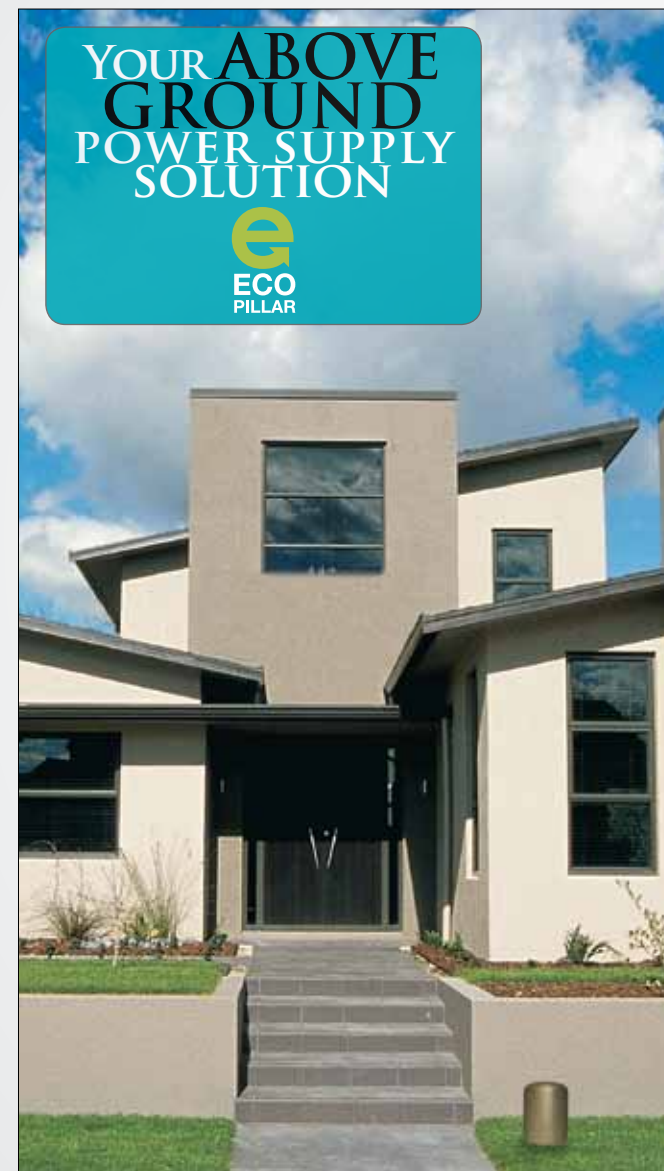
TWO POWERFUL SOLUTIONS

Not many companies choose to keep their best features completely out of sight, but then these are unusual products from an innovative company.

Why are they unusual products? For a start, they were created in direct response to a problem that had never been solved to anyone's satisfaction — the problem of power disruption through damaged distribution pillars. It turned out that the majority of those pillars were destroyed simply by being run over by cars in everyday use. So TransNet came up with a Total Underground Distribution System (TUDS), which incorporates a multitude of electrical fittings in a below-ground capsule with a vandal resistant cap that sits flush with the ground.

The next logical step was to incorporate the redesigned, waterproof internals into a vastly improved distribution and link pillar for applications where TUDS can't be used. The Ecopillar is unobtrusive, tough, environmentally friendly, and makes cable installation easier than the unit it replaced [another bonus is that it's often cheaper than its predecessor].

The advantages over the traditional [also unsafe, ugly, expensive and crude] distribution boxes are apparent at a glance. The obvious electrical reticulation solution for anyone about to start on a building project TUDS or Ecopillar.





COMMERCIAL CHALLENGES, RESIDENTIAL APPLICATIONS & PROFESSIONAL SOLUTIONS

Specifying Ecopillar or TUDS, for residential or commercial applications, is about more than just upgrading to a better-looking unit. The thinking behind the two systems, indeed the very reason they were created, was to eliminate existing distribution pillar weak points and develop a future-proof system that still manages to be cost-effective.

Essentially, a local power supplier can, and sometimes will, choose an existing option when distributing power

from the mains to a dwelling. In the past this has often been one of the older, not so attractive, style of distribution pillar, Ecopillar and TUDS both give you new more aesthetic solutions.

As an individual or private developer you're perfectly entitled to make your own choices — as far as keeping ugly features off the landscape is concerned. So Ecopillar and TUDS supply a ready-to-use solution using componentry that every specifier and tradesman is

familiar with. The robust construction, compact profile and secure, locking system used in every Ecopillar reduce the risk of accidental or intentional damage. And, due to the modular design, manufacturing and installation costs stay competitive. The TUDS system removes the whole issue visually, apart from a secure service hatch that sits flush with the ground.

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Electricity hasn't changed;
just the thinking behind delivering it.

HOW THE ECOPILLAR SYSTEM WORKS



Integrated ventilation system for moisture control.

Multiple fastening options depending on level of security required.

Two side cable access holes and one underneath simplifies cable installation.

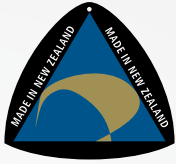
Removable, durable flame retardant PVC panels CNC drilled to suit a variety of equipment configurations are included.

User friendly, removable mounting bracket ensures cable connections can be easily made before bracket is installed.

Copper 250amp neutral bar with stainless studs is easily accessed and located where suitable.

NZ Patent Number 548175 pending,
 NZ Design Registration applied for.

THE ECOPILLAR



Built from Rotathene 6309 UV stable plastic, the Ecopillar will take the knocks and come back for more. It's designed specifically for customers who demand safety, performance and unobtrusive good looks from their electrical reticulation systems. A unique range of fastening systems ensures protection from the less civic-minded elements of the public whilst giving the technician easy access. Internally, all components are specifically designed for the Ecopillar.

Externally, Ecopillar visibly has a compact installation footprint. The corrosion free, environmentally friendly outer housing has a contoured design with no sharp edges, and can be ordered in a range of colours on request. This isn't just a plastic box with some electrical fittings inside — this is an integrated system, designed by people in the industry for people in the industry.

WHAT SETS US APART

- Designed by people in the electrical industry to overcome the shortcomings of existing products in the market.
- This is a system, not just a plastic box with electrical fittings inside.

FEATURES THAT TACKLE THE MAJOR ISSUES

- Multiple fastening options.
- Compact installation footprint.
- Environmentally acceptable.
- Strong vandal resistant construction.
- Manufactured from corrosion free, UV stable, quality plastic, Rotothenie 6309.
- Incorporating the latest next generation electrical fittings.
- A compact range which incorporates a multitude of electrical fittings.
- Contoured design means no sharp edges

CUSTOMISING YOUR ECOPILLARS

FULL CUSTOMISATION AVAILABLE

- Lid details specific to your design requirements.
- Component kits based on usage requirements.
- Pillar colours & sizes all designed to requirements.



LOCKING, FASTENING & EARTHBAR OPTIONS

INTRODUCTION



Security Torx Screw



Security Screw & Latch



Latch Only



Security Screw, Latch & Padlock

ECOPILLAR TYPE 0 – THE MINI ONE

Incorporates slimline low visibility profile, TransNet captured torx bolt locking system and use of industry standard electrical fittings — or a water tight fitting.

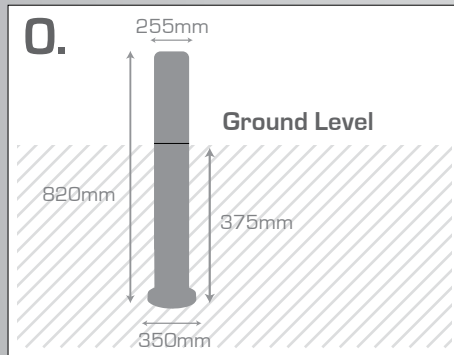
Ideal for use in low demand installations like small homes, utility buildings and illuminated bus shelters.

TYPE 0 CAPABILITIES:

2 each 32/63/100amp fuse.



1 each k221, 100amp fuse.

FEATURES & BENEFITS

- Fully modular system to meet all network requirements.
- Accommodates multiple switchgear combinations.
- Accommodates all mains cable combinations currently used in NZ.
- Compact, environmentally pleasing.
- Recyclable.
- Excellent UV stability Rotathene 6309 plastic.
- Mechanically robust.
- Vandal resistant.
- Easy to install.
- Water tight fittings.*

*K221 Fuse Only

FAQS

- 1** Why change to Ecopillar system?

 - Safety to members of the public and workforce.
 - Inventory rationalisation due to modular design.
 - Cost effective, price and labour savings.
- 2** Is plastic in the Ecopillar UV stabilised?

 - Yes, material is Rotathene 6309 Ultra UV.
 - Compliant with AS/NZS 4766 tank standard.
- 3** What is the difference between Ecopillar Type 0, 1, 2, 3 & 4?

 - The components in the Type 1 Ecopillar are watertight, whereas standard fittings are used in the other Ecopillars.
 - EP4 was designed for switchgear.
- 4** How much do they cost?

 - Cost effective installation time.
 - Competitively priced in the market.

ECOPILLAR TYPE 1 – THE SAFEST ONE

A completely watertight unit with safe-to-touch electrical fittings. Uses the industry approved TransNet fastener free locking lid system, eliminating fasteners and requiring one simple tool for access.

TYPE 1 CAPABILITIES:

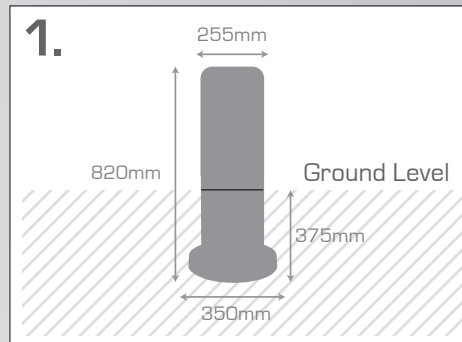
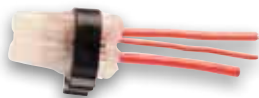
Gelport watertight neutral bar for Al/Cu conductors 4-150mm² (larger 16-240mm² available) ANSI C119.1,2002.



K221 watertight 100amp IPC fuse holder accepts Al/Cu conductors of 6-50mm².



Gelcap Pilot Wire Connection Block accepts Al/Cu conductors from 2.5-70mm².



Removable mounting rack accommodates 3xK221, 4x65U and 1x4 way Gelport.



65U watertight 30amp fuse holder accepts Al/Cu conductor 2.5-16mm².

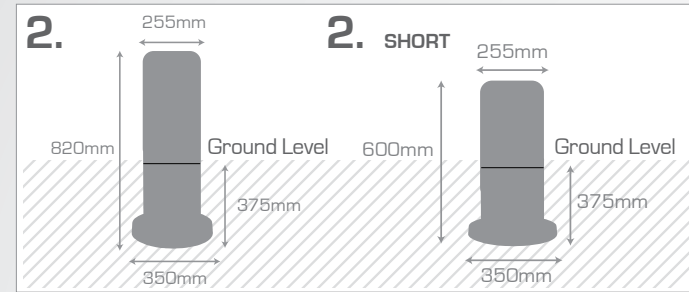


Guro MM5 Underground Resin Breach Joint Kits available to suit conductors Al/Cu of 3 or 4 core 50-240mm² with tails of 6-120mm².



ECOPILLAR TYPE 2 – THE COMPACT ONE

The compact and unobtrusive design keeps visual impact to a minimum. Uses the TransNet captured torx bolt locking system and carries industry standard electrical fittings (BS 88, IEC269).



TYPE 2 STANDARD CAPABILITIES:

Up to 10 each
32/63/100amp fuses

OR 1x160amp DIN00
disconnecter with 2
each 32/63/
100amp fuses

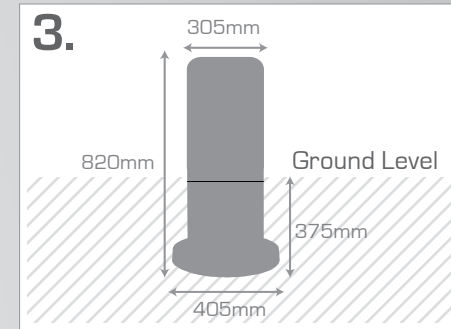


TYPE 2 SHORT CAPABILITIES:

5 each 32/63/100amp fuses

ECOPILLAR TYPE 3 – THE VERSATILE ONE

Incorporates aesthetically pleasing profile, TransNet captured torx locking system and use of industry standard electrical fittings.



TYPE 3 CAPABILITIES:

Up to 14 each
32/63/100amp fuses.



1 each 160amp DIN00
disconnecter with 3 each
32/63/100amp fuses.



2 each 160amp DIN00
disconnecters.

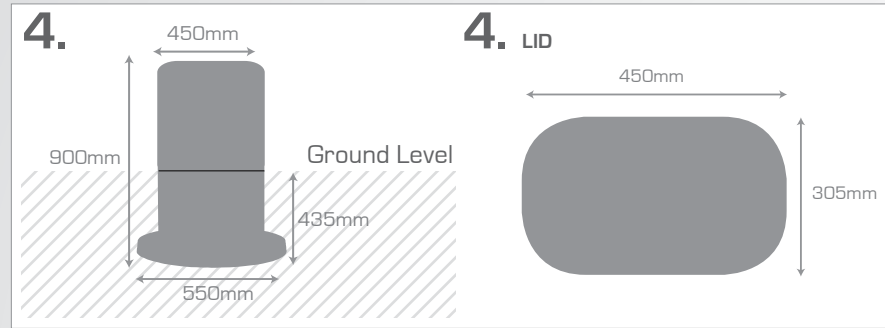


1 each 250amp DIN1
disconnecter with 4 each
32/63/100 fuses.



ECOPILLAR TYPE 4 – THE BIG ONE

The EP4 is the largest in the Ecopillar range and is designed to house the larger 400amp and 630amp Horizontal Disconnect Switches along with many combinations of smaller disconnects and fuses. This pillar comes complete with captured Torx40 screws.



TYPE 4 CAPABILITIES



*Additional combinations possible

THE TOTAL UNDERGROUND DISTRIBUTION SYSTEM (TUDS)



TUDS

LESS, FINALLY, IS MORE IN THE WORLD OF UTILITY DISTRIBUTION.

The versatility of TUDS means that, in domestic applications, you can install a compact pit in a driveway, a lawn, footpath or terrace. Unsightly (and space-stealing) distribution pillars are no longer needed. Each TUDS pit can supply up to 9 single phase dwellings.

In business districts, service pillars can be replaced with TUDS pits quickly and efficiently; the flexibility of the system means that services can still be placed in high foot traffic

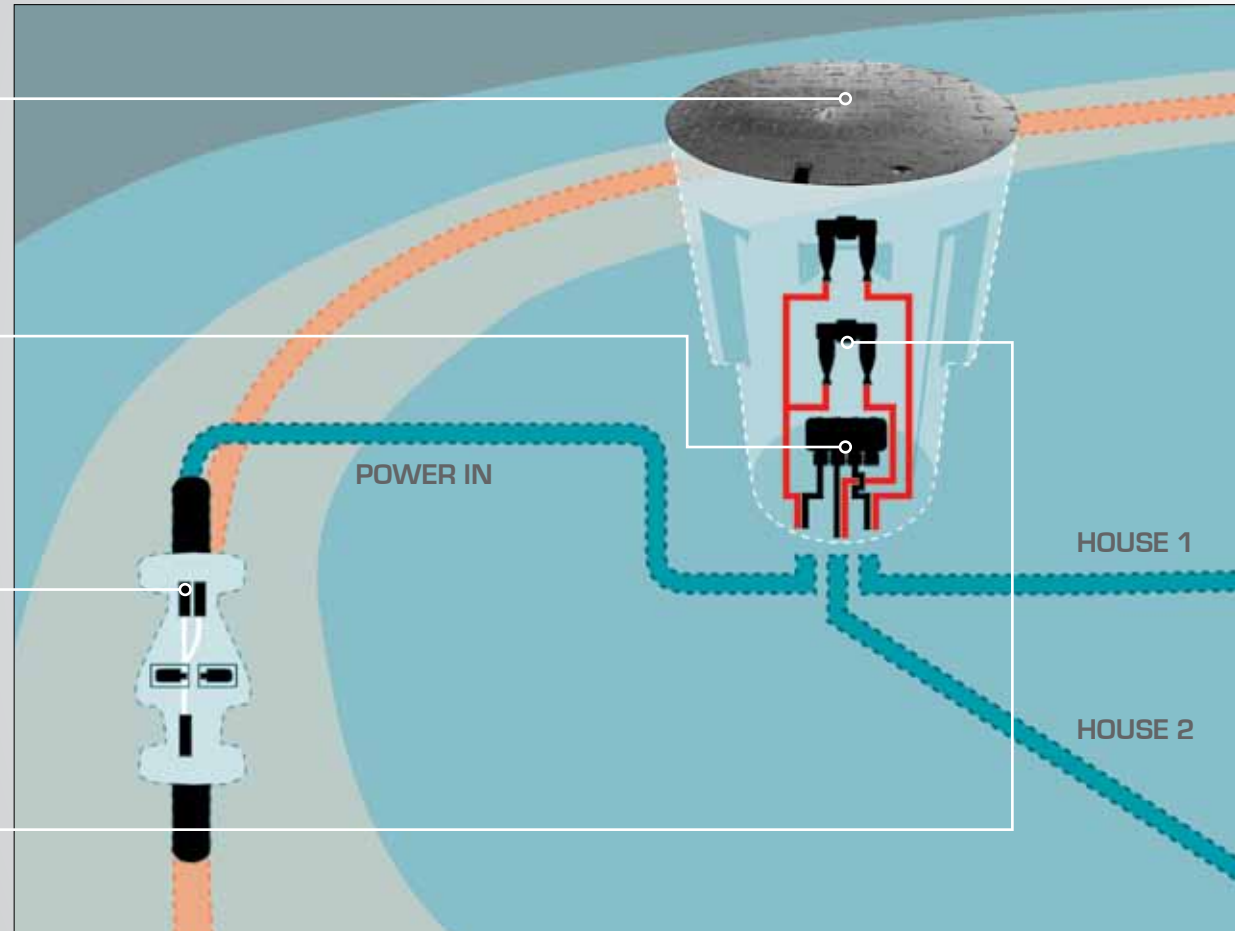
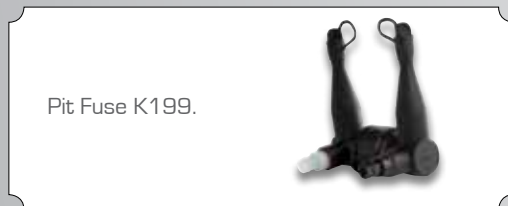
areas, but no longer encroach on the functionality of the area. Cluttered storefronts can be a thing of the past, with obvious benefits in terms of street appeal. Another obvious issue is public safety; in the days when there was no alternative there might have been some excuse for placing hazards in the path of the elderly and unwary, but with the TUDS system now available, and at such reasonable cost, there's no need to inconvenience pedestrians.



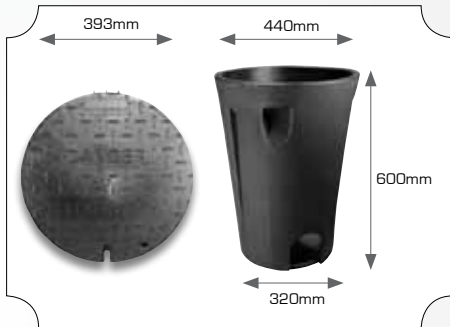
HOW THE TUDS SYSTEM WORKS



TUDS



KEY COMPONENTS



Pit base and lid: manufactured from durable, black UV resistant plastic compounds. Strong & secure, the lid latches into place & requires a tool for access



Gelport Connector: Used to create a busbar, an insulated multiport connector. Accepts both copper and aluminium cable. 6mm²-150mm² (larger 16-240mm² also available) ANSI C119.1,2002.



Guro MM5 Branch Joint Kit — Used to tap a supply from the main transformer cable to the pit. Can connect single and multicore main cable to single and multicore supply cable. Environmentally friendly insulating compound.



Pit Fuse K199: Used to connect the customer's service to the underground supply cable. Fully submersible design rated to IP68. Accepts barrel fuse links and both copper and aluminium cable. 6mm²- 50mm².

TUDS RESIDENTIAL INSTALLATION

TUDS



RESIDENTIAL & COMMERCIAL USE

RESIDENTIAL

TUDS means no more distribution pillars to detract from the beauty of your stunning new home. With the versatility of TUDS, you can install it in a driveway or lawn and forget it's even there. There is no longer a need to design the layout of your property around the position of your distribution pillars.

Also with TUDS there is now no excuse for placing hazards in the paths of children, the elderly and unwary. With the TUDS system available at such reasonable a cost, there's no need to pay more to keep your family safer.

COMMERCIAL & LIGHT INDUSTRIAL

TUDS means you can choose the location of your distribution pillar. Flush with the ground to greatly reduce visual impact TUDS can be installed in the driveway, footpath or lawn with ease.

Because of high impact lids and the flush mount design the TUDS system increases security of supply by reducing the chances of vandalism and accidental damage.



CAMBRIDGE TOWN CENTRE

When the time comes to give your town centre an upgrade why not remove the clutter of service pillars and replace them with TUDS pits. The TUDS system gives you the flexibility to place your services in high foot traffic areas and service vehicle lanes without encroaching on the functionality of the area. The TUDS system can be incorporated into a variety of different footpath and service lane finishes. Cluttered store frontages can be a thing of the past, with TUDS you will achieve the clean and tidy look to your town centre, enhancing the street appeal you had hoped for.

As well as street appeal there's public safety; placing hazards in the path of the elderly and unwary makes no sense when the TUDS system is available at the same or similar cost, there's just no need to place pedestrians at risk of falling over ugly service pillars.



A TUDS SOLUTION AT SUMMERSET

At Summerset retirement village TUDS pits have been placed in garden areas to lessen their visual impact even further. Because they are totally unaffected by water immersion it is perfectly safe to have a watering system adjacent to the pit. We think you will agree they are very unobtrusive.





The driveway shown above was blighted by the presence of a large ugly pillar which was not only visually awful but a dangerous obstruction handily placed to be repeatedly run over by vehicles using the driveway. One can see from the picture and the angle of the pillar that this was obviously a regular occurrence. The use of TUDS pits has tidied the area up and provided a much safer environment.



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