

LIGHT RAIL CAPABILITIES



SERVICING THE CONSTRUCTION INDUSTRY

Danterr

CONCRETE ACCESSORIES FOR AUSTRALIA



Danterr is a national supplier of concrete and construction products. We source and distribute products to Australia's largest construction projects – projects that are meeting Australia's infrastructure, and public works needs.

Our sphere of influence includes public transport initiatives, major road upgrades, transport tunnels, sporting venues, wind farms, bridges and rail lines just to name a few.

Our approach is to research and investigate the specific nature of each individual project and its requirements, and then work with reliable local and overseas suppliers to ensure that our clients' needs are fulfilled.

Our passion to be at the leading edge of Australian construction capabilities is also a reason why so many building and construction companies choose **Danterr**. We never waver from sourcing and supplying the best of the best products, not to mention the most revolutionary.

Additionally, **Danterr** has a strong emphasis on sustainability and understand that the alignment of 'greener' outcome parameters is essential to the success of projects in an ever-evolving commercial market place regarding environmental sustainability.

Danterr approaches all projects with a determination to seek the best solution, which adheres to strict building and construction requirements, and is commercially viable for the client.



PROJECTS



Sydney Light Rail

Client: Acciona Infrastructure
Australia

The Sydney CBD and South East Light Rail 12km route will feature 19 stops, extending from Circular Quay to Randwick. Sydney Light Rail also incorporates the Inner West Light Rail, which is currently operating as the L1 Dulwich Hill Line. The 12.7km route connects Central Station and Dulwich Hill via 23 light rail stops and will transport more than 9.7 million customers each year.

For this project, **Danterr** supplied custom made key joints and dowels for the light rail track slab, as well as Hydrotite, concrete spacers, joint sealants and root barrier together with at least another 25 individual products sourced from around the globe.



Canberra Metro

Client: John Holland and CPB
Contractors JV

Canberra Metro is a 12km public transport corridor. The rail infrastructure and associated landscaping will become a feature of Australia's capital city. There will be 13 stops with the vehicles and boarding / disembarking areas designed with comfort and safety in mind. The new light rail will be integrated seamlessly with the bus network.

For the Canberra Metro Project, **Danterr** supplied many products including site tools, tie wire, builders film, sand bags, deck rail chairs and lifting anchors.



Sydney Metro Stage 2

Client: CPB Contractors and Ghella
and John Holland JV

Sydney Metro is Australia's biggest ever public transport project. The project entails tunnelling under Sydney Harbour for the installation of the rail track, as well as the construction of seven new metro stations, and the upgrading of 11 existing stations.

Danterr have supplied dozens of different products to Sydney Metro Stage 2 including bitumen board, dowels, backing rod, expansion foam, joint sealants, spacers including concrete spacers, plastic bar chairs, and plastic shims. Also for the Sydney Metro, **Danterr** have supplied the unique Nevosafe rebar protection system, reinforcing mesh, tie wire, bolts and nuts, expansion caps, builders film, curing compounds, bond breaker chemicals, formatubes, pile cage wheels and feet, polystyrene, denso tape, formply and fiberglass rod.

LIGHT RAIL

ESTABLISHMENT / SERVICES



Denso Tape

Denso Tape is composed of a non-woven synthetic fabric carrier, fully impregnated with a neutral compound based on saturated petrolatum and inert siliceous fillers. Designed to withstand extreme temperature variations, Denso Tape provides corrosion protection to pipes, flanges, valves and related surfaces.



Hydrotite

Hydrotite is a hydrophilic waterstop with unmatched durability and water sealing capacity. As Hydrotite expands it absorbs water and fills up concrete joint gaps conforming to the gap variation. Hydrophilic material expands in a controlled fashion by approximately eight times by volume in the presence of moisture to create a pressure seal within the joint.



Plastic Shims

When packed under precast concrete panels or tilt-up panels, shims effectively level high load objects thus achieving alignment. **Danterr** Shims have undergone extensive testing to ensure they meet Australian standards. Ribbed patterning on each shim helps to prevent slippage during on-site panel alignment operations.



Formply

Formply is made with a radiata pine core with a harder density surface. Both hardwood surfaces are faced with a high-density resin finish, that is usually black in colour and very smooth. Formply is ideally suited for use in concrete formwork and can be reused.



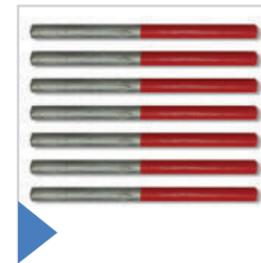
Danterr CX Diamond Blades

Diamond Blades are ideal for cutting reinforced concrete during the demolition of existing services. CX blades can be used as a combination blade and have high performing segments for longevity of the blade.



GP Cement

GP Cement is a general-purpose cement suitable for most concrete applications. It is generally considered an essential in the concrete and construction sectors. **Danterr** supplied GP Cement complies with Australian Standard 3972 – General purpose cement.



Dowels

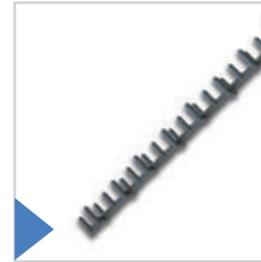
Dowels are available in round, square or diamond shapes in galvanized, stainless or black structural grade friction cut. **Danterr** are an industry leader in the sourcing and delivery of high-quality dowels in all cuts, shapes, diameters and finishes.



Pecafil®

Pecafil® is a flexible and versatile sacrificial formwork material perfect for concrete encasing service pipes. Pecafil® is also suitable for ground beams, footings and bases, pile caps, construction joints (stop ends), special shapes or curves, void formation, ribbed and waffle slabs, penetrations, recesses, temporary fencing and safety screens.

LIGHT RAIL TRACK SLAB



Deck Rail Spacers

Deck Rail Spacers are a continuous spacer for formwork applications. The male and female connections at either end will join spacer to spacer providing the length required. Once connected the clip will not separate. Deck Rail Spacers are faster to place and sturdier for heavy track slab pre-fabricated reinforcing cages.



Tie Wire Coils

Tie wire coils come in a standard diameter of 1.57mm which is the industry standard required to cover various civil concreting applications. Wire comes in a galvanized, stainless or black finish as to resist corrosion; coils are convenient enough to carry yet contain enough wire for a huge number of ties.



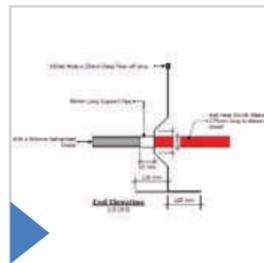
Concrete Spacers

Cast concrete spacers ensure that the specified concrete cover to the reinforcement for structures and structural elements is achieved, both before and during concreting. Concrete spacers are commonly used for the walls, columns and foundations in civil concreting applications.



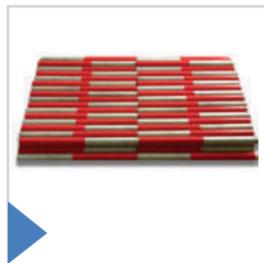
Reo Mesh

Danterr Reo Mesh is a 500mpa steel reinforcing mesh suitable for use in a variety of applications. Standard reinforcing mesh sizes are 6.0m x 2.4m for the SL range of products. The wire used has a ribbed profile which improves bonding to concrete, which limits any concrete cracking that may occur as a result of concrete shrinkage.



Transverse Key Joints

Transverse Key Joints are used for creating linkages in continuous concrete pours. Joints access strength from an inflexible steel backing profile, with expansion capability (if required). This is a full depth straight joint purposely built with a doweling system that allows load transfer through a completed slab.



Dowels

Dowels are available in round, square or diamond shapes in galvanized, stainless or black structural grade friction cut. **Danterr** are an industry leader in the sourcing and delivery of high-quality dowels in all cuts, shapes, diameters and finishes. **Danterr** also offer heat shrink sleeves fitted to the dowels which saves time compared to other conventional de-bonding methods which would need to be applied.



Backing Rod / Joint Sealants

Backing Rod is a compressible, closed cell polyolefin foam tube with an outer skin, used as a backing for cold applied sealants in expansion / construction joints. **Danterr Joint Sealants** are a one-component moisture-curing low modulus Class A polyurethane sealant. They cure into a flexible, durable and weather resistant sealant and exhibits excellent adhesion to a wide range of substrates.



Fiberglass Reinforcement

Fiberglass rebar has a large decisive load and due to its contour, it offers a maximum bondage with the concrete. Fiberglass rebar has a high corrosion resistance; concrete does absorb water, and therefore iron reo can corrode. Fiberglass reo will never corrode and will last for approx. 200 years in any concrete slab. It has been used in light rail projects in loops to isolate stray currents.

LIGHT RAIL

OVERHEAD CONTACT SYSTEM, PILES AND CAPPING



Pile Cage Feet

Pile Cage Feet ensure correct concrete cover at the bottom of a reinforcing pile cage is achieved. The 3 sizes provide 85mm, 100mm or 150mm of cover and are engineered to support up to 500kg of dead weight per unit.



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Pecafil®

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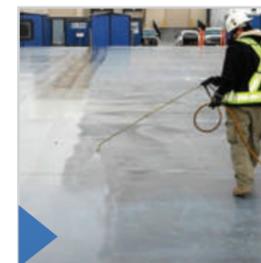
Formatubes

Formatube is a cardboard tube used to pour concrete columns, both above and below ground. Formatube too can be used in-ground to prevent soil collapsing. Formatubes are easy to use which is intended to stand upright when used as formwork for in-ground or above ground columns. The outer layer is impregnated with plastic coating thus allowing water resistance. The inside is coated with an oil lining to prevent the concrete sticking to the tube.



Pile Cage Wheels

Pile Cage Wheels provide correct concrete cover to pile cage reinforcement bars. They are particularly suited to Raked Pile applications. Pile Cage Wheels can be attached as the pile cage is lowered into the ground. Their performance is maximised by their push fit and security clip fixing mechanisms.



Curing Compound

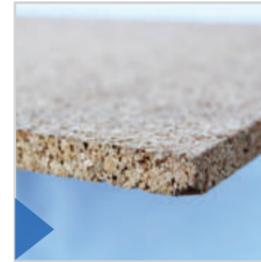
Danterr supplies the following variances of Concrete Curing Compound - Aliphatic Alcohol Evaporation Retardant, Bituminous, Water Based XDS, Water Based Acrylic and Wax Based. Curing concrete results in the full development regarding strength of concrete.



Bolts and Fasteners

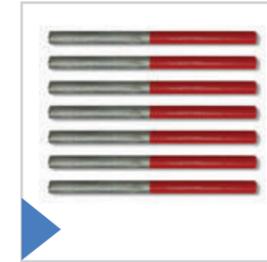
J-bolts are used in structural applications like securing walls to concrete foundations. The bent end hooks around rebar for support. L-bolts are embedded directly into concrete to support structures including light poles and steel columns. The bottom portion that is bent at a 90-degree angle keeps the bolt from pulling up through the concrete. Danterr also supply a complete range of Rag Bolt Assemblies.

LIGHT RAIL FINISHING WORKS



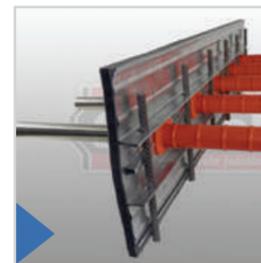
Cork Self-Expanding (T3)

Cork joint filler is made from cork granules that are bound together with insoluble resins and moulded into a flat board. Cork expands when met with moisture which releases built-in stresses to initialise expansion, thus providing an essential, semi-rigid filler used in conjunction with a pourable or pre-formed joint sealer.



Dowels

Dowels are available in round, square or diamond shapes in galvanized, stainless or black structural grade friction cut. **Danterr** are an industry leader in the sourcing and delivery of high-quality dowels in all cuts, shapes, diameters and finishes.



Connolly Expansion Joints

Expansion Joints consist of 1 x Expansion Key Joint with 10mm thick closed cell PE foam attached. Expansion Joints are designed to suit slabs of 100mm, 125mm, 150mm and 200mm in height. Each 3m length of Expansion Key Joint comes with suitable dowel bars, dowel sleeves, and a pack of four pegs and wedges all numbered and sized to suit.



Slab on Ground Plastic Chairs

Slab on Ground bar chairs are designed to support reinforcing mesh in slab-on-ground projects. They are manufactured to provide dual-height options in the one bar chair size for increased application flexibility. As they are manufactured from plastic there is zero-risk of rust problems and their lightweight and stackable design makes handling easy.



Bitumen Impregnated Fibreboard

Bitumen Impregnated Fibreboard is an expansion joint filler supplied in sheet form and is used to form and fill expansion joints in in-situ and pre-cast concrete construction. Ideal for concrete pavements, roads, runways, ramps, foot paths and other high pedestrian areas.



Expansion Foam

Expansion Foam is a crossed linked, non-absorbent, closed cell, polyethylene expansion joint filler used in expansion and isolation joints in concrete. Expansion Foam is non-absorbent with excellent properties allowing it to be used in water retaining / excluding structures where chemicals and variances of water such as potable, salt, chlorine and sewerage water is abundant.



Backing Rod

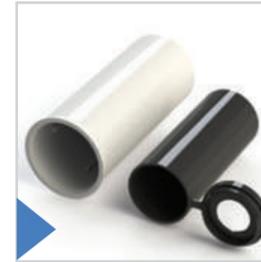
Backing Rod is a compressible, closed cell polyolefin foam tube with an outer skin. It is used as a backing for cold applied sealants in expansion / construction joints and building seal applications.



Joint Sealant

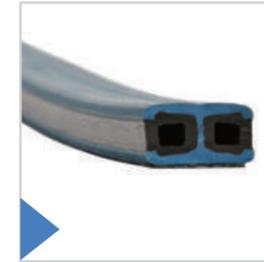
Danterr Joint Sealants are one-component, moisture-curing, low modulus, Class A, polyurethane sealants, with excellent joint movement capabilities. They cure into a flexible, durable and weather resistant sealant and exhibits excellent adhesion to a wide range of substrates.

LIGHT RAIL STOPS



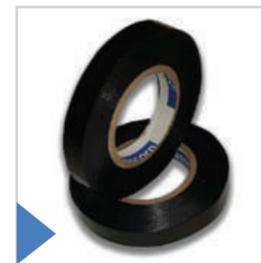
Expansion Caps

Expansion caps are 75mm long plastic caps designed to cap round dowels in concrete joints. Each cap contains an internal mould fluting which compresses with the movement of the dowel thus keeping the cap in place. The multi-fitting cap end design allows for standard diameters of round dowels to all be accommodated in just two sizes of caps.



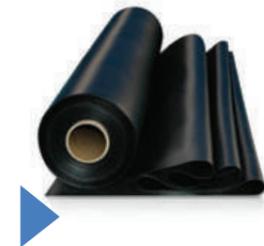
Hydrotite

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Bond Breaking Tape

Bond Breaking Tape is used in joint sealing applications and doesn't allow joint sealants to adhere to surfaces thus preventing three-sided adhesion which reduces the sealants capability to accommodate movement.



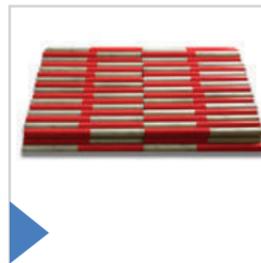
Builders Film

Builders Film is a concrete underlay membrane that comes in Polyethylene sheet form. As Polyethylene is of a very low biodegradability, Builders Film is perfectly suited for use as a damp-proof underlay on the soil beneath a pour, or as a vapour blockade.



Polystyrene

Polystyrene is light, easy to handle, durable, strong and flexible making it an ideal void former for use as a joint filler in expansion joints. This versatile product is available in a range of different sizes, shapes and grades.



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Epoxy

Danterr's Epoxy Dayton IJ51 has early strength, excellent flow and very low exotherm temperatures. It has high impact resistance, superior creep resistance as well as excellent chemical resistance.



Bituthene Tape

Composite membrane incorporating high performance moisture and water-resistant rubberised asphalt with tough, puncture and heat-resistant polypropylene reinforcing mesh. Used as a waterproofing membrane and for use under a hot applied asphalt concrete wearing course.



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