



NON-DRILL
Pty Ltd



Non-Drill Brochure

Edition 1 | 2026

SafeSmart

A Better Way

UK 0845 382 1000

Height Access Solutions
www.safesmartaccess.co.uk

What is Non-Drill?

NON-DRILL is an edge protection system where the vertical post connects to cast in lifting anchors.

Summary of Benefits

- Eliminate the need for drilling with the NON-DRILL edge protection and handrail system.
- Connect to lifting anchors on precast structures.
- NON-DRILL works seamlessly with Cone Anchors, EdgePro, Hairpin lifting anchors, and Ferrules.
- Connecting to the anchor eliminates human error and meets industry standards for edge protection.
- With NON-DRILL, you avoid costly labour hire, drilling into concrete, exposing steel, and cutting off bolts.
- Apart from avoiding the need to drill, the major saving with the NON-DRILL system is installation time. You can install 12 NON-DRILL posts in the same time it takes to drill a typical post with two holes.
- By planning ahead, incorporating anchors into design, the NON-DRILL team will work with your designers to position the anchors for both temporary edge protection and permanent handrails.
- Walls: min 130mm thick - 2.5 tonne anchor 170mm long or standard 16-20mm ferrule.
- Slabs: 2.5 tonne cone anchor 75mm long, 100mm off the edge.
- Where concrete thickness is <100mm (e.g. flanges on Super Ts): use Ancon 20mm short foot ferrule (45mm long).
- *Casting in NON-DRILL anchors to concrete, the system eliminates the risk of silica dust exposure.*

Who we Serve

We have partnered with the below construction companies for their edge protection needs.



Why Choose NON-DRILL



Australia's Leading Non-Destructive Edge Protection System



Easy Installation

Simply connect to lifting anchors, eliminating the need for drilling and human error.



Safety

Eliminates the exposure to harmful silica dust and avoids costly labour hire with its innovative installation method.



Ease of Transport & Storage

Special stillages ensure easy storage and secured transport.



Compliance

Designed to meet **BS EN 12811** standards.



Re-usable

Heavy-duty galvanised posts can withstand the rigours of construction sites.



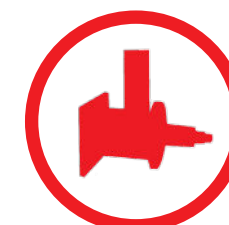
On-Site Consultation

Access to consultants and engineers for site scoping and layout.



Configurability

NON-DRILL works seamlessly with Cone Anchors, Edge Lifter/ Hairpin Anchors and Ferrules.



Side Mount Options

Various mounting methods available to streamline your access and edge protection requirements.



Temporary Works Engineering Support

Site-specific configuration drawings and design certification.



Large Stockholding

A large amount of inventory is held across four locations in Australia.

What NON-DRILL CAN ATTACH TO



INDUSTRY STORY
Silica Dust Prevention
Page 22



**No Drilling
Required**



**Eliminates
Silica Dust**



**Engineered to
BS EN 12811**



Cone Anchor

Cone Anchor Compatibility

1.3 Tonne
2.5 Tonne
5 Tonne
10 Tonne
20 Tonne



Hair Pin Anchor

Hair Pin Anchor Compatibility

Anchon 4 Tonne (Red)
Anchon 8.5 Tonne (Purple)
Anchon 15 Tonne (Green)
REID 7 Tonne Jaws (Orange)
REID 8.5 & 10 Tonne Jaws (Yellow)
REID 10 Tonne Jaws (Blue)



Ferrule

Ferrule Compatibility

M12 Ferrule
M16 Ferrule
M20 Ferrule



Stirrup/Reo Bar

Stirrup Compatibility

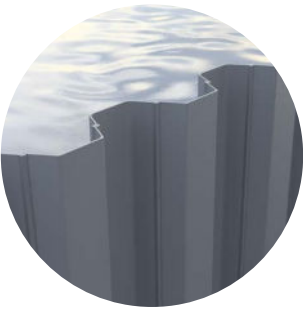
ø12mm Stirrup
ø14mm Stirrup
ø16mm Stirrup



Shear Stud

Shear Stud Compatibility

Maximum ø22mm Shank
Maximum 200mm Height



Sheet Pile

Sheet Pile Compatibility

Maximum Thickness 20mm

NON-DRILL

Non-Destructive Post & Handrail System

The NON-DRILL system simply attaches a post to existing lifting anchors within precast or cast-in concrete structure. It can be used as a temporary or permanent system and attaches with ease to 1.3, 2.5, 5, and 10 tonne lifting anchors.

How Does it Work?



Step 1

Identify whether you have an anchor or ferrule in the concrete slab. Identify the size & brand of the anchor for correct clutch compatibility.



Step 2

Slide the NON-DRILL clutch underneath the anchor at an angle ensuring a firm and secure connection, then position the clutch upright.



Step 3

Screw down the NON-DRILL post clockwise onto the clutch and until it's screwed tightly into the concrete slab.



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Constructing RE/RSS Walls?

How to Maximise Efficiency with NON-DRILL

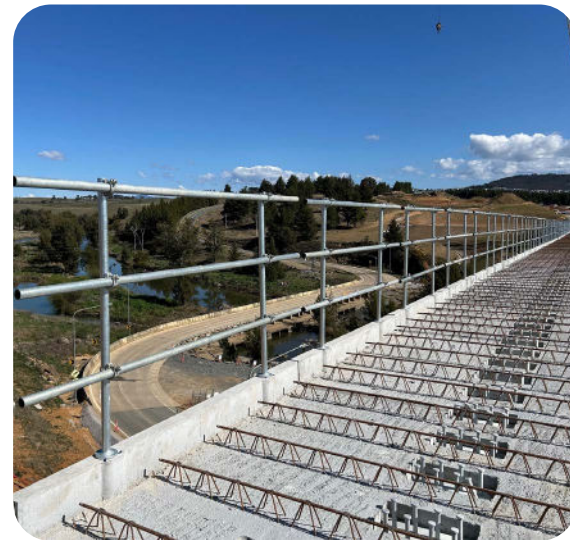
STAGE 1

Install Drop down NON-DRILL



STAGE 2

Install Temporary NON-DRILL



STAGE 3

Install Permanent NON-DRILL



Never Have to Drill Again

5 minutes of early planning will save you countless hours on-site.

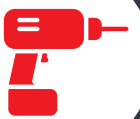
01

Reduce Labour & Fast Installation



02

No Power Tools Required



03

Reduce Silica Dust Exposure



04

No Damage to Concrete



05

Eliminate Concrete Remediation Works



NON-DRILL - Components

NON-DRILL 1.3T Clutch  Code210131	NON-DRILL 2.5T Clutch  Code230122	NON-DRILL 5T Clutch  Code230123	NON-DRILL 10T Clutch  Custom 20T Clutch Available Upon Request Code230124
M16 Clutch  Code230128	M20 Clutch  Code230129	Baseplate  Note: The NON-DRILL 10T Clutch (230124) must always be used in conjunction with the baseplate (230132). Code230132	1.05mH Post  Code230121
1.80mH Post  Code230133	Hairpin Anchor Type 1  Hairpin Anchor Type 1 Suits: Ancon 8.5T (Purple) REID 7T Jaws (Orange) REID 8.5T 3DX (Yellow) Code230126	Hairpin Anchor Type 2  Hairpin Anchor Type 2 Suits: Ancon 4T (Red) Code230126	Hairpin Anchor Type 3  Hairpin Anchor Type 3 Suits: Ancon 15T (Green) REID 10T Jaws (Blue) Code230127
Hairpin Anchor Type 4  Hairpin Anchor Type 4 Suits: REID 3T (Green) Code230201	Hairpin Anchor Type 5  Hairpin Anchor Type 5 Suits: PSA (Various Sizes) Code230200	NON-DRILL Kickboard Bracket  Code230148	NON-DRILL End Cap Galvanised  Code230171

NON-DRILL - Permanent Components

Type 1: Long Tee, HDG-D48  Code230160	Type 1: Short Swivel TEE, HDG-D48  Code230161	Type 1: In-Line Connector (Mid-rail), HDG-D48  Code230162	Type 1: In-Line Connector, Adjustable 1°-11° (Mid-Rail), HDG-D48  Code230174
Type 1: In-Line Connector, Adjustable 11° - 29° (Mid-Rail), HDG-D48  Code230163	Type 1: In-Line Connector, Adjustable 30° - 37° (Mid-Rail), HDG-D48  Code230164	Type 1: In-Line Connector, Adjustable 38° - 45° (Mid-Rail), HDG-D48  Code230165	Closure Bend Horizontal, HDG-D48  Contact us for Custom Closure Bends! Code230166
Variable In-Line Elbow 0° - 90°  Code290811	Straight Joiner Galvanised 40NB  Code230170	Steel Handrail Tube 48.3mm x 3.2mm x 6.5mL  Code230175	Type 2: Three-Way Through  Code230181
Type 2: Offset Crossover  Code230172	Type 2: Adjustable Knuckles  Code230173	Type 2: Two-Way Elbow  Code230176	Type 2: Three-Way Elbow  Code230177



*1/4" Power Drive Bit is required for all Type 1 in-line connectors

NON-DRILL - Temporary



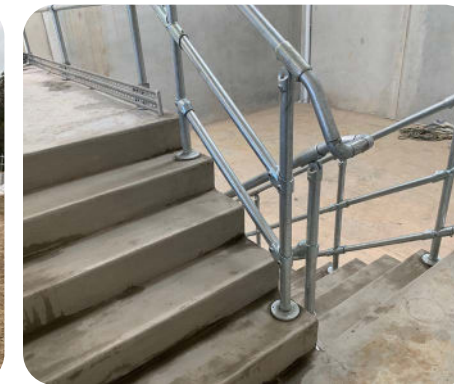
NON-DRILL - Permanent



NON-DRILL Temporary to Permanent

How Does it Work?

- 1
 - Retaining walls - engage NON-DRILL system when backfill is within 1m from the top of the wall.
 - Slabs / stairs - engage NON-DRILL before removing formwork.



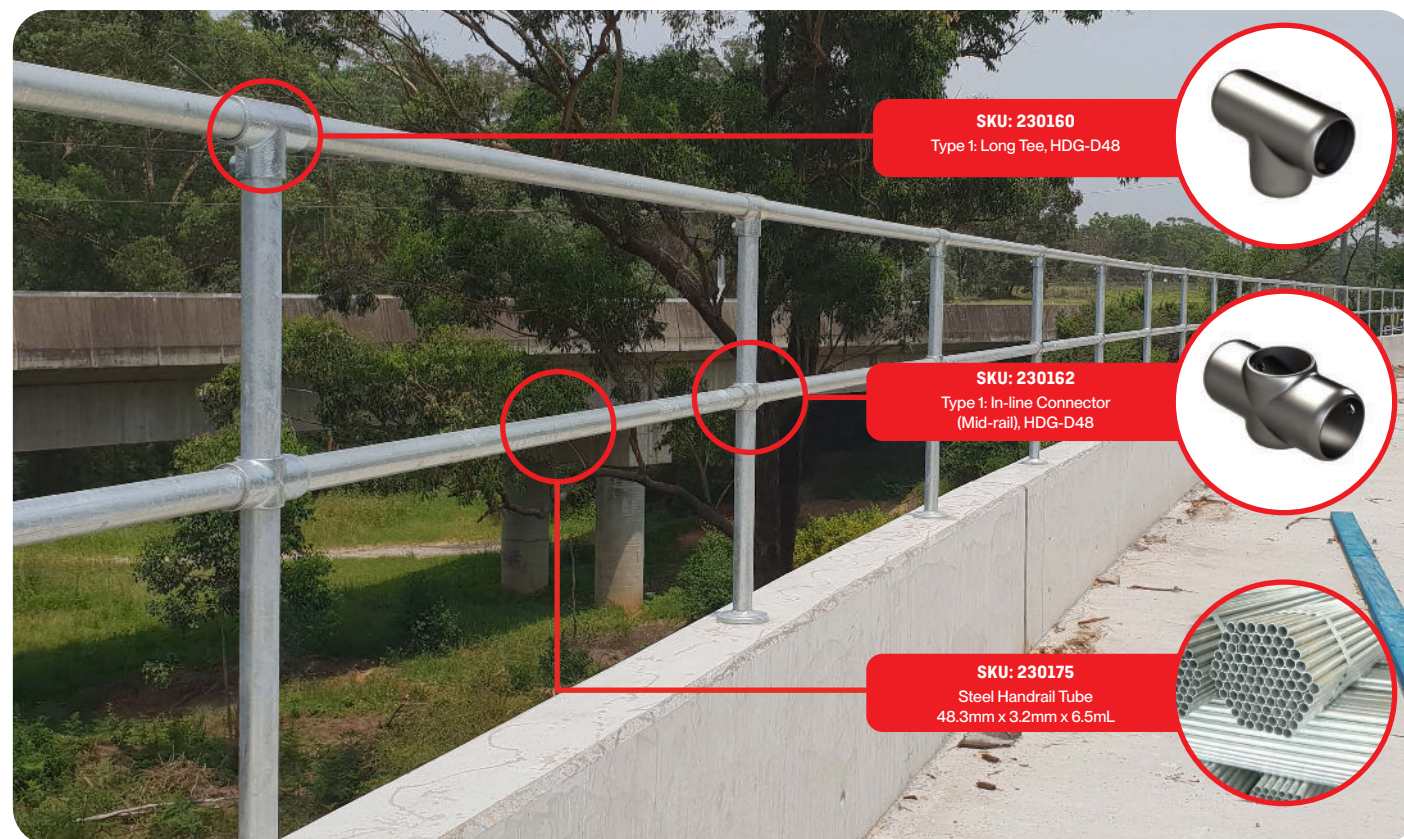
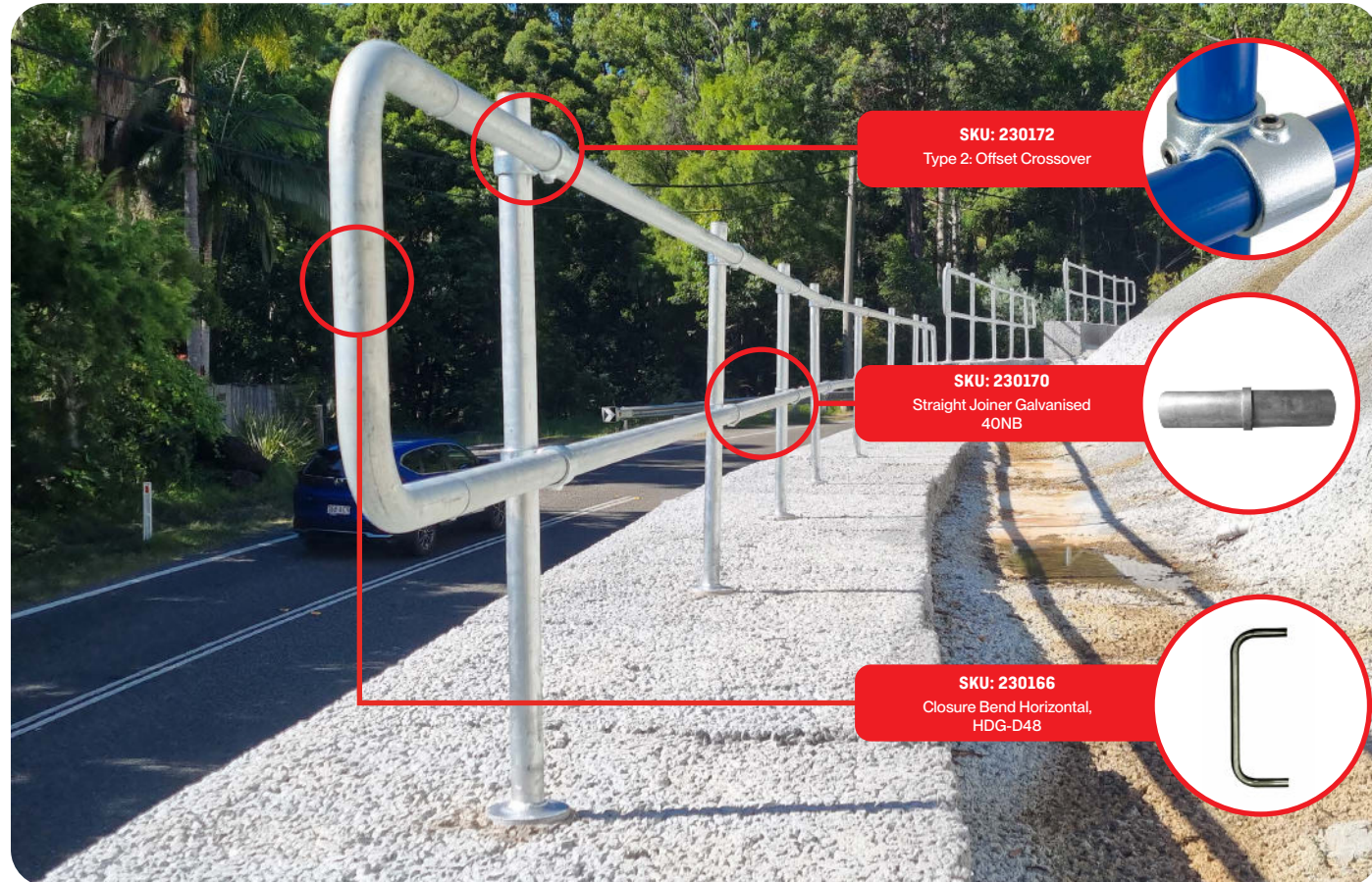
- 2
 - When backfill progresses to the top of wall using the same posts and rails, it transfers from a temporary to a permanent handrail without exposing a live edge.
 - Each post is unscrewed at 50mm to place grout under baseplate and to seal connection from moisture and line up handrail.



- 3
 - Line up handrail walls/slabs.



NON-DRILL - Permanent Offset



NON-DRILL - 75+ Years Lifespan

NON-DRILL permanent handrail using modular connections is a full galvanised system to **AS/NZS 4680** equivalent to international 75+ years lifespan.

For permanent use - High strength grout is placed in the recess, protecting the connection from moisture, therefore increasing the life span and to adjust line on top rail.

Customer Testimonials

"When I first encountered NON-DRILL at Moorebank Intermodal Precinct, I was very impressed in how simple and fast it was to install."

"For all my edge protection, I now incorporate anchors into design, so NON-DRILL can be easily utilised."



— **Superintendent,**
JJ Hatton

"I have managed a supply / install contract with NON-DRILL, delivering high quality of products with engineering solutions and professionalism. Especially utilising NON-DRILL system on top of RSS Walls, transferring temporary into the permanent system is exceptional and outstanding"



— **Senior Project Engineer,**
Abraham, Hong

"We have been using the NON-DRILL posts on the top of our RSS Walls now for a couple of years. It is a great idea and allows the following work crews to complete their tasks without any clamps and so on in the way. Great design, strong sturdy and easy to fit."



— **Director,**
Brett Rasmussen



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NON-DRILL - Applications

Face Mount Connection



Precast Walls



Culverts



NON-DRILL - Applications

Permanent NON-DRILL



NON-DRILL - Applications

Jersey Kerb Barriers



Super T Bridge Girders



NON-DRILL - Applications

Bridge Segments



1.8mH NON-DRILL

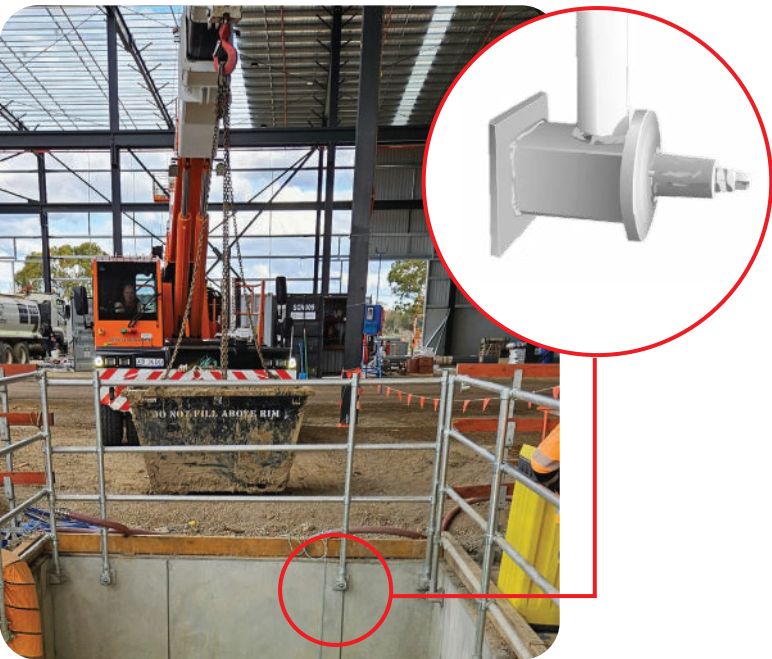


NON-DRILL - Applications

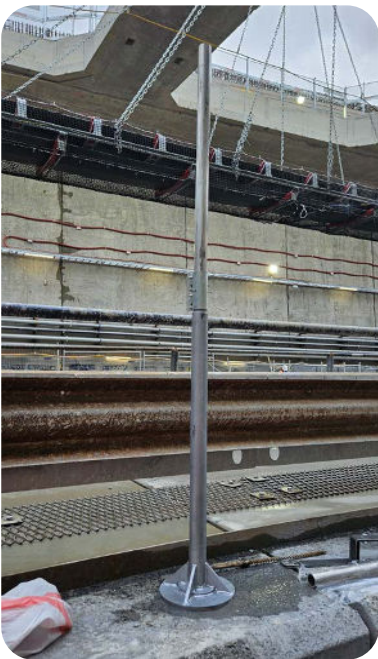
Container Edge Protection



Side Connection Post



Formwork Heavy-Duty Post



NON-DRILL - Applications

Shear Stud Edge Protection



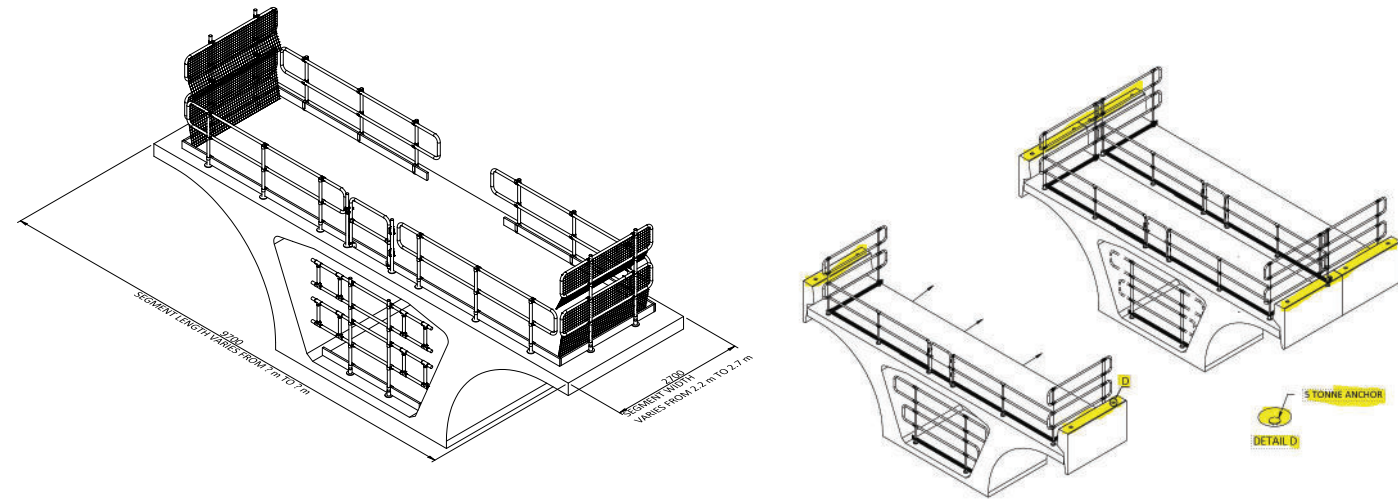
Steel Stirrup Connection



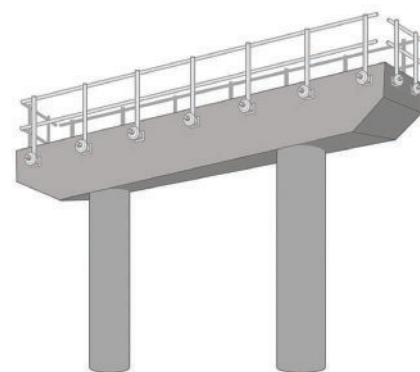
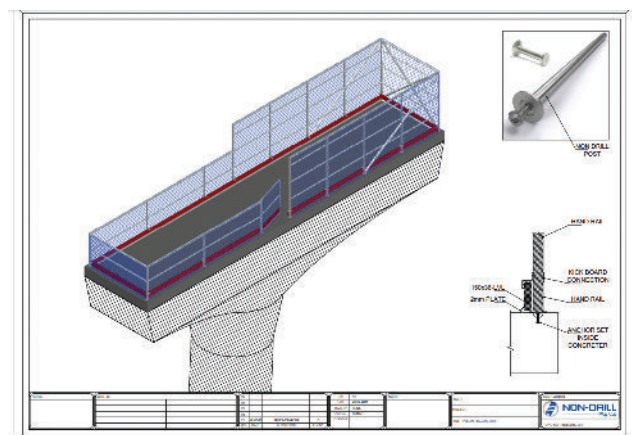
NON-DRILL - Applications

Bridge Segments / Parapets

- Incorporating anchors into design or drop-in anchors for existing concrete.
- See the segment design for West Gat Tunnel Project below. There were over 40,000 anchors incorporated into design. Segment highlighted in yellow showcases where NON-DRILL was transferred to existing anchors on bridge parapets.



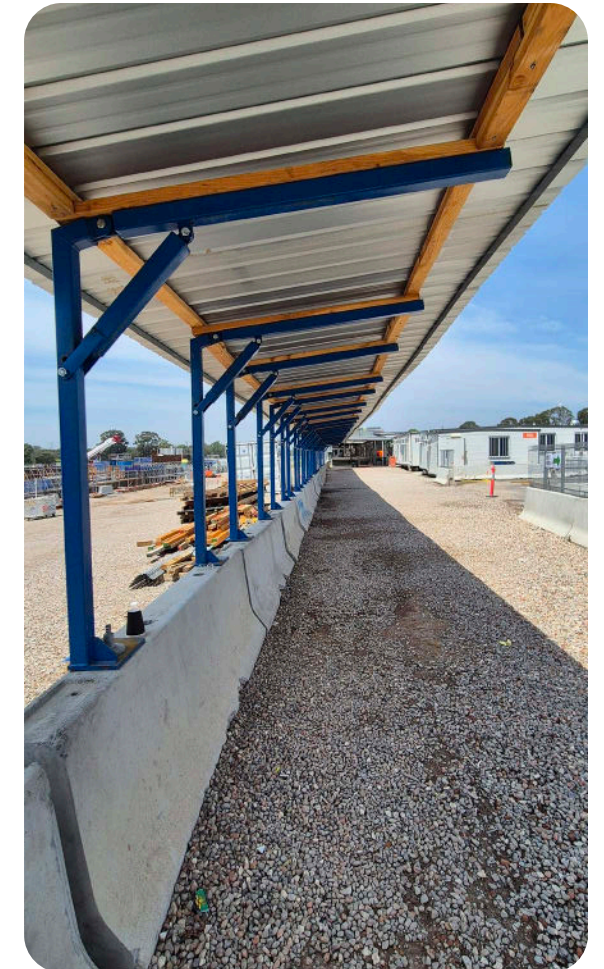
- Headstock design option of top mount or NON-DRILL side connection.



NON-DRILL - Applications

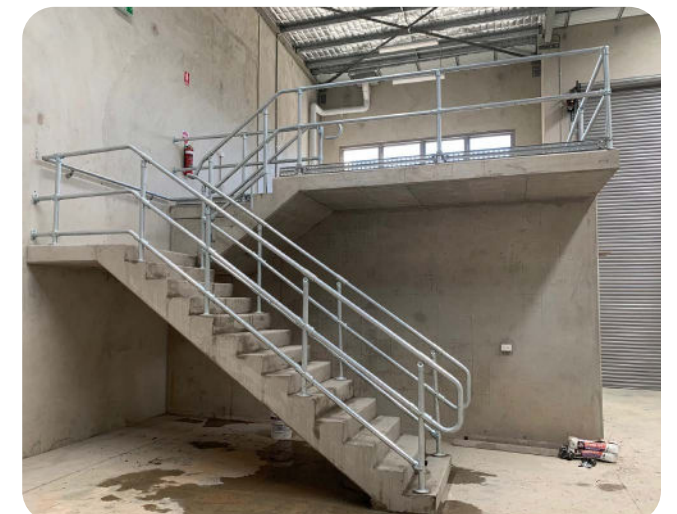
Walkway Brackets

NON-DRILL has designed a walkway bracket with a strong pull-out capacity that needs only one connection point, with loads up 500kg per/m.



Other uses for Setting Anchors

Davit rescue system, tripod for surveyors and securing formwork props.



INDUSTRY STORY

NON-DRILL: Eliminating Silica Dust

Eliminating the Risks of Silica Dust

Silica dust, a silent yet formidable adversary in the construction world, has long posed significant health risks to workers. Minimising workers' exposure to harmful silica dust is of increasing concern.

To this end, several innovative drilling solutions have been devised and implemented, but these have all aimed to reduce exposure. The Non-drill Post & Handrail system completely eliminates any exposure to silica by eliminating the need for drilling entirely.

Understanding Silica Dust

Silica is a prevalent mineral, scientifically termed silicon dioxide. This mineral can be found in two distinct forms: crystalline and amorphous. The crystalline variant is recognised as quartz, a primary component in materials like sand, stone, concrete, and mortar.

Different rocks and construction materials have varying concentrations of crystalline silica. For instance, granite typically comprises between 25% and 40% silica, and concrete aggregates might have an approximate silica composition of around 30%. In contrast, engineered composite stones can have a silica concentration exceeding 90%.

In the year 2021, a concerning report from WorkSafe Australia revealed that 73 claims were accepted from workers who had contracted diseases linked to silica exposure in their workplace. Tragically, this exposure resulted in the loss of five lives.

Furthermore, data sourced from Artibus suggests that an alarming estimate of 230 Australians annually are diagnosed with lung cancer, a consequence of past silica exposure. This underscores the pressing need for effective measures to mitigate silica-related hazards in the workplace.

What Clients say about NON-DRILL?

"There was a late change in how our riser working platforms had to be used, and after struggling to find a handrail system that met our lifting requirements, a colleague recommended NON-DRILL. At that point, our operations had come to a halt.

I reached out to NON-DRILL with our specifications at 3:30 pm, and by 5:30 pm, Paul had already shared preliminary sketches for a collapsible handrail system. Impressively, by 8:30 am the next day, they had constructed a prototype and sent me a demonstration video. Paul and his team were on site by the afternoon, installing the system.

The entire process, from briefing to design, prototype creation, and installation, was completed in just 24 hours. The speed and efficiency with which they delivered a custom-built system were truly remarkable. I hadn't imagined such a swift turnaround was possible."

Built — Project Engineer,
Michael Cain

NON-DRILL FAQS

Find answers to the most common question about the NON-DRILL Post & Handrail System, including specifications, compatibility and installation details.



Temporary Handrail

What are the typical spacings?

- 2.4m spacing maximum for 1mH NON-DRILL handrails.
- 2m spacing maximum for 1.2mH NON-DRILL handrails.

What is NON-DRILL standard post height?

1.050mH with a 130mm diameter.

Permanent Handrail

Details of the permanent handrail system?

Modular connection fully galvanised 50+ year life span.

What are the specifications for setting anchors in concrete?

- Slabs - 100mm from the edge, 2.5 Tonne.
- Cone anchor - 85mmL.
- Walls - 2.5 Tonne anchor 170mmL (Walls up to 300mmW).

Compatibility & Connections

What size cone anchors can be used?

We have clutches for 1.3/2.5/5/10/20 Tonne Clutches.

Does the NON-DRILL system work with Edgepro/Hair Pin Anchors?

Yes we have anchors to suit Ancon, Reid, and PSA ranging from 3 Tonne to 15 Tonne

Does the NON-DRILL system work with Ferrule connections?

Yes, we have connections for M12, M16, M20, and M24.

What if I'm missing an anchor?

Drop in Ramset Reid drop-in anchor, requires to drill one hole 25mm diameter, 80mm deep to use the ferrule connection.

Can NON-DRILL come in different heights?

Yes, we fabricate in-house.

Can NON-DRILL be powder coated?

Yes, it can be powder coated.

Compatibility With



Cone Clutches

1.3T / 2.5T / 5T / 10T / 20T



Ferrule Connections

M12 / M16 / M20 / M24



EdgePro / Hairpin Anchors

Ancon / Reid / PSA
Ranging from 3 Tonne to 15 Tonne

See full list of compatible connections on page 4



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