

TRENCH CONTROL PILING SOLUTIONS

Ireland's Largest Supplier of Trench Shoring
& Excavation Support Equipment



ROI: 045 866944 NI: 028 9268 9859 www.trenchcontrol.ie



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Trench Control

Excavation Support Equipment for Hire



Concrete CFA & Sheet Piling



Anchoring



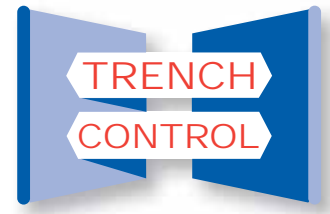


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Company Overview

Who we are

- Local Company Operating Nationally
- Largest Irish Sheet Piling Company
- Almost 30 Years in Business
- Countrywide Service



Excavation Support Equipment
www.trenchcontrol.ie

What we do

- Ground Support Equipment Hire
- Sheet Piling
- Concrete Piling
- Anchoring
- Flood Protection
- Full Design Service – Free of charge



Safety Training & Consultancy
www.safety.ie



Construction Accessories
www.mlcs.ie

Piling Rigs & Hammers

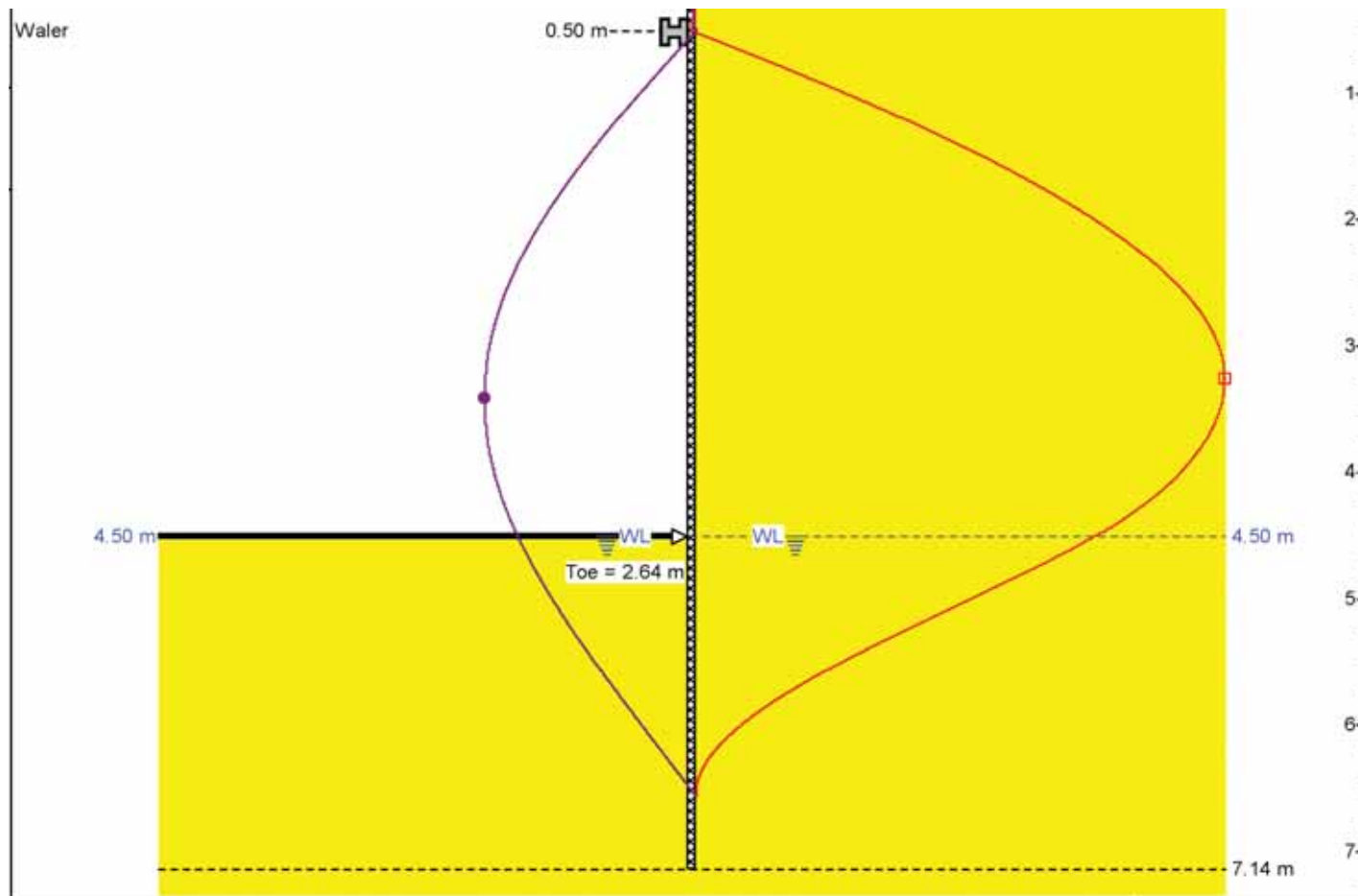


Sheet Piling – Larssen Piles





FREE Piling Design Service - Includes Full PI Coverage





Piling Solutions

Sheet Piling

- Temporary Sheet Piling
- Permanent Sheets Piling
- Marine Works
- Cofferdams & Corner Piles
- Additional Sheet Piling Options

Concrete Piling

- Contiguous Piling
- Secant Piling
- Pile Breaking
- King Posts

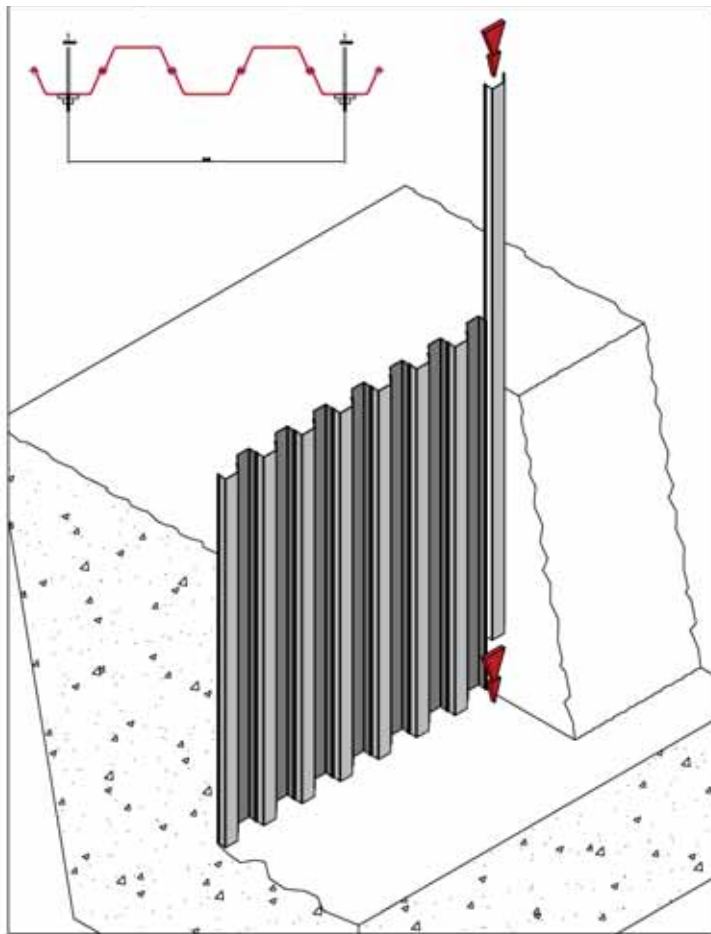
Anchoring

- Tie Back Anchors
- Ground Anchors
- Soil Nailing

Trench Solutions for Hire

- Trench Boxes
- Drag Boxes
- Trench Sheets
- Frames
- Hammers

Sheet Piling



Technical Details

- Used in both temporary and permanent conditions
- Suitable in ground conditions with low 'N' values
- Permanent sheets can be designed for load bearing
- Provides a water tight excavation
- Light sheets from 3m lapped or multi-lock
- Heavy sheets can be designed up to 20m in length
- Can be used with frames, props or cantilevered
- Profile shapes can be U, Z, H/UC/I Beams and Tubes

Benefits

- Installation is twice as fast as concrete piles
- Ability to re-use steel sheets for multiple projects
- Sheets can be hired reducing projects upfront costs
- Anchors can be attached through sheet piles
- Used in both water and land conditions

Temporary Works



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Sheet Piling – Town Centre Cofferdam



Project	Coffer Dam with Welded Clutches
Customer	O'Hare McGovern
Location	Market Square, Dundalk
Date	January '05





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Sheet Piling – Large Excavations



Project	Impact Driving 2.5 BSP Crane Mounted Hammer
Customer	Kilcullen Homes Ltd
Location	Kilcullen, Kildare
Date	September '05





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Sheet Piling – Retention Walls



Project	14m Sheet Piling Wall
Customer	Bowen
Location	Little Island, Cork
Date	March '09





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Sheet Piling – Watertight Excavation



Project	Riverside Basement
Customer	Bowen
Location	Little Island, Cork
Date	March '09





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Sheet Piling – Temporary Sheet Piles



Project	Temporary Retaining Wall
Customer	Walsh Maguire
Location	Finglas, Dublin
Date	December '05





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Sheet Piling – Temporary Sheet Piles



Project	Temporary Retaining Wall
Customer	Kilcullen Homes
Location	Kilcullen, Kildare
Date	August '08





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Sheet Piling – Night Work



Project	600 Sheet Piles in 48 Hrs
Customer	Irish Rail
Location	Ballybrophy, Laois
Date	November '08





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Sheet Piling – Railways & Bridges



Project	Under Bridge Piling using a multipiler
Customer	Irish Rail
Location	Ballybrophy, Laois
Date	November '08

 **Iarnród Éireann**
Rebuilding the Railway



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Sheet Piling – Heavy Duty Frames



Project	Sheet Piles & Frames
Customer	John Sisk & Son / Wyeth Pharma
Location	Newbridge, Kildare
Date	January '03



Sheet Piling – Excavator Mounted Piling



Project	Using EMV when access is difficult
Customer	McDermott & O'Farrell
Location	Naas Shopping Centre, Kildare
Date	January '07

Sheet Piling – Crane Mounted Hammer



Project	Impact Driving a 2.5 BSP Hammer
Customer	Walsh Maguire
Location	Finglas, Dublin
Date	December '05



Permanent Works



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Sheet Piling – Permanent Capped Sheets



Project	Permanent Retaining Wall
Customer	Bowen
Location	Douglas, Cork
Date	January '08



Sheet Piling – Sheet Piling & Anchoring



Project	WWTP 10m Sheets & Anchors
Customer	Laing O'Rourke
Location	Ballyrickard WWTP, Co. Down
Date	August '07





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Sheet Piling – Ground Anchors



Project	Ground Anchors
Customer	Laing O'Rourke
Location	Ballyrickard WWTP, Co. Down
Date	August '07

LAING O'ROURKE



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Sheet Piling – Underground Car Park Basement



Project	Permanent Steel Basement
Customer	McDermott & O'Farrell
Location	Naas Shopping Centre, Kildare
Date	August '08



McDERMOTT & O'FARRELL

Corner Piles



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Sheet Piling – Corner Piles



Project	Corner Section
Customer	Bowen
Location	Eastgate, Cork
Date	February '09



Marine Works



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Sheet Piling – Harbour Works



Project	22m Combi Wall
Customer	Farrans Construction
Location	Warrenpoint, Co. Down
Date	June '08





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Sheet Piling – Quay Wall Retention



Project	New Quay Wall at Arklow Harbour
Customer	Allen & Smyth
Location	Arklow, Wexford
Date	July '07





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Sheet Piling – 22m Steel Tubes



Project	22m Steel Tubes
Customer	Farrans Construction
Location	Warrenpoint, Co. Down
Date	June '08





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Sheet Piling – Inland Canal Works



Project	Permanent Sheets with protective coating
Customer	Clare Civil Eng.
Location	Shanganagh, Dublin
Date	July '05



Sheet Piling – Use of a Piling Gate



Project	Piling Gate used for Quay Wall
Customer	Farrans Construction
Location	Warrenpoint Harbour, Co. Down
Date	November '08





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Sheet Piling – Combi Wall



Project	22m Combi Wall
Customer	Farrans Construction
Location	Warrenpoint, Co. Down
Date	June '08





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Sheet Piling – Tubular Piles with Hammer Extension



Project	Tubular Piles along Canal Bank
Customer	Bowen Construction
Location	Haddington Rd, Dublin
Date	April '06





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Aqua Barrier – Water Inflated Cofferdams



Project	Water Filled Cofferdam
Customer	SIAC
Location	Donore, Co. Meath
Date	July '09



Sheet Piling – Plastic (Vinyl) Piles

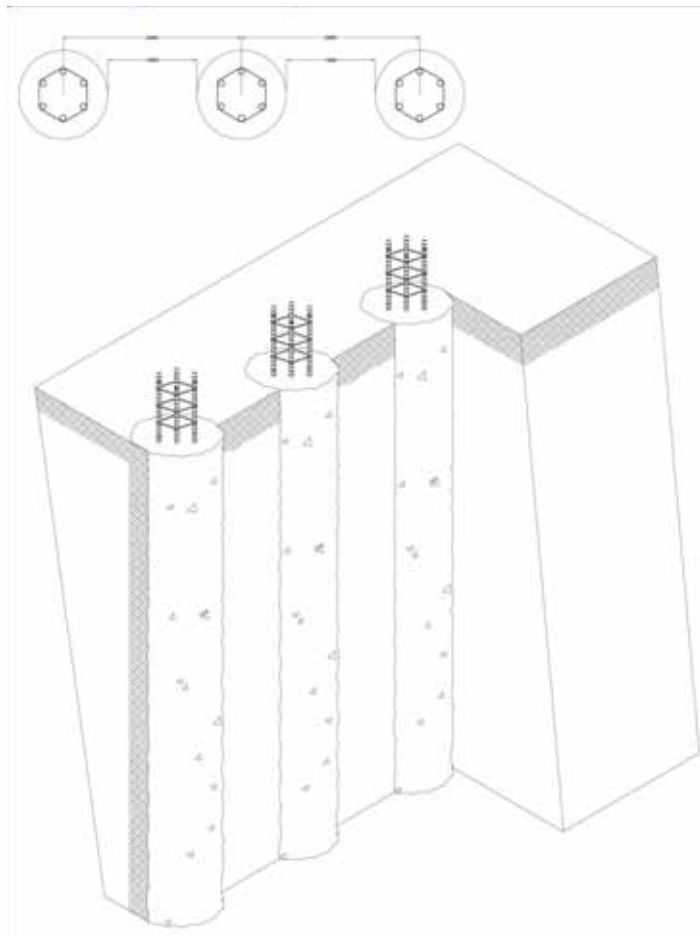


Plastic Piles driven into a bund to divert water



Concrete Piling Solutions

Contiguous Piling



Technical Details

- Used where steel sheet piles cannot be driven
- Bored piles driven adjacent to each without touching
- Gaps between piles depend on soil cohesiveness
- Strength comes from arching of soil between piles
- Not suitable where there is water ingress
- Pile depths of 16 meters
- Pile diameters range from 400mm - 600mm

Benefits

- Drives piles one meter closer to a boundary wall
- Reduce number of piles in a pile wall
- Increased accuracy in verticality
- Ability to drive piles close together thereby reducing need for secant wall
- Less concrete required
- Low noise and vibration

Concrete Piling – Contiguous Piles into Boulder Clay



Project	10m Contiguous Piles
Customer	MDY Construction
Location	Tallaght, Dublin
Date	April '09





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Sheet Piling – 600mm Contiguous Pile



Project	10m Contiguous Piles
Customer	O'Mahony Finnerty
Location	Pembroke Row, Dublin
Date	April '05





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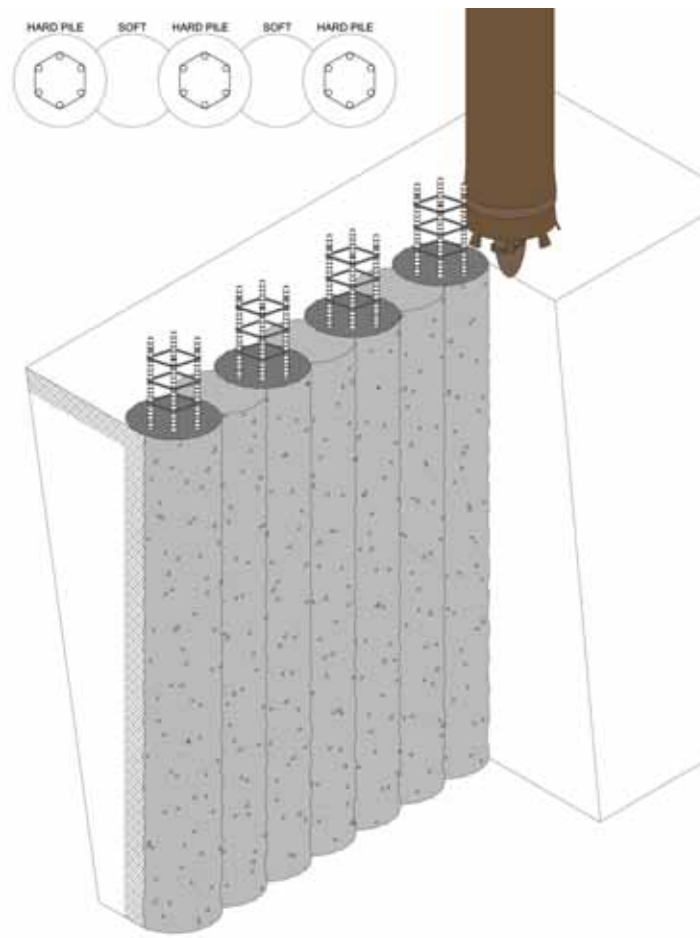
Sheet Piling – 420mm Contiguous Pile



Project	Contiguous Piles – 800mm Centres
Customer	Graham Construction
Location	Santry, Dublin
Date	November '07

GRAHAM

Secant Piling



Technical Details

- Drives piles one meter closer to a boundary wall
- Reduce number of piles in a pile wall
- Increased accuracy in verticality
- Strength of pile casing reduces spreading of piles in digs over 7m
- Less concrete required
- Low noise & vibration

Benefits

- Provides additional one linear meter around basement perimeter
- No cantilever at ground level reduces structural steel requirement
- No spreading/fingering due to increased vertical accuracy
- Reduces the number of piles in a secant wall
- Less concrete required due to fewer piles
- Low noise & vibration

Secant Piling – to Within 50mm of a Boundary Wall



Project	260 no. 9m x 450mm Secant Piles
Customer	Pat O'Gorman
Location	Sandymount, Dublin
Date	March '06



Pat O'Gorman & Associates
Structural & Civil Consulting Engineers



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Secant Pile Wall – City Centre with Close Boundary



Project	10m Contiguous Piles
Customer	O'Mahony Finnerty
Location	Pembroke Row, Dublin
Date	April '05

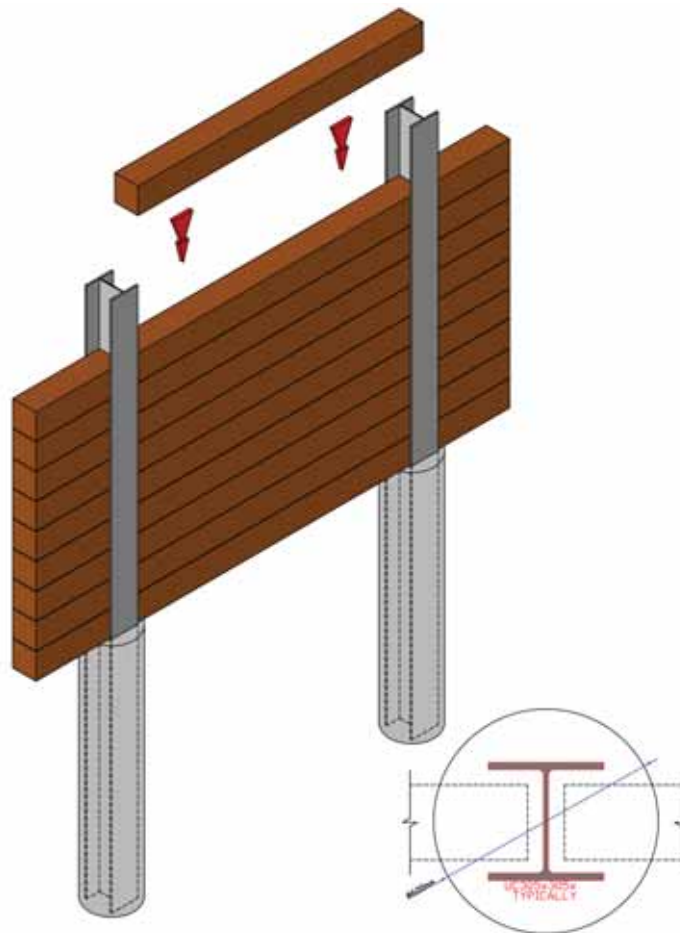


Pile Breaking

Concrete Pile Breakers



King Posts



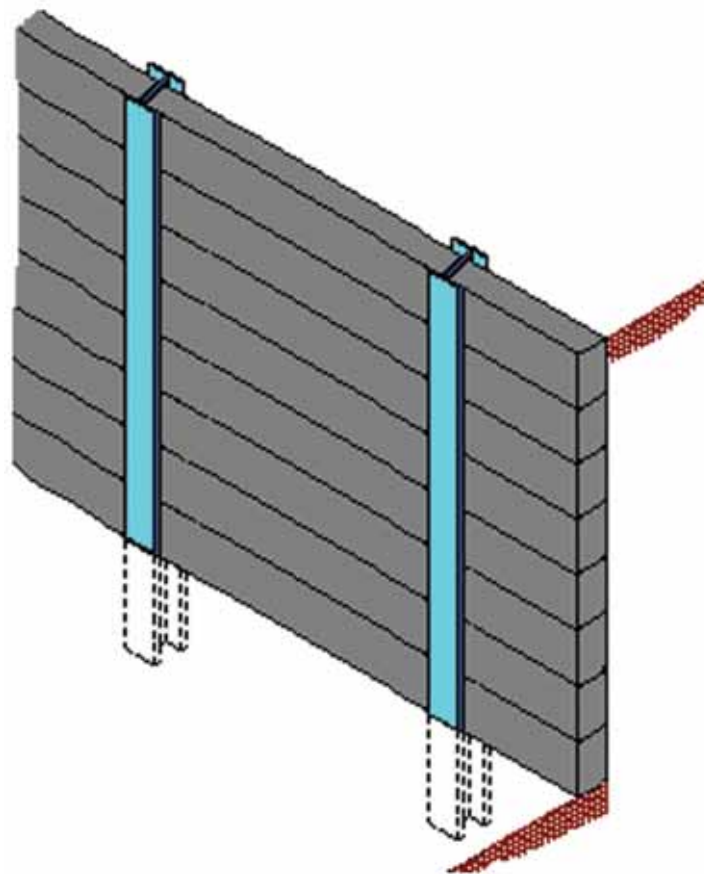
Technical Details

- Used where steel sheet piles cannot be driven
- Wooden sleepers or precast slabs are inserted between UC posts
- Gaps between piles depend on soil cohesiveness
- Strength comes from arching of soil between piles
- Not suitable where there is water ingress
- Pile depths of 16 meters
- Pile diameters range from 400mm - 600mm

Benefits

- Drives piles one meter closer to a boundary wall
- Reduce number of piles in a pile wall
- Increased accuracy in verticality
- Ability to drive piles close together thereby reducing need for secant wall
- Less concrete required
- Low noise and vibration

King Post – Solider Pile



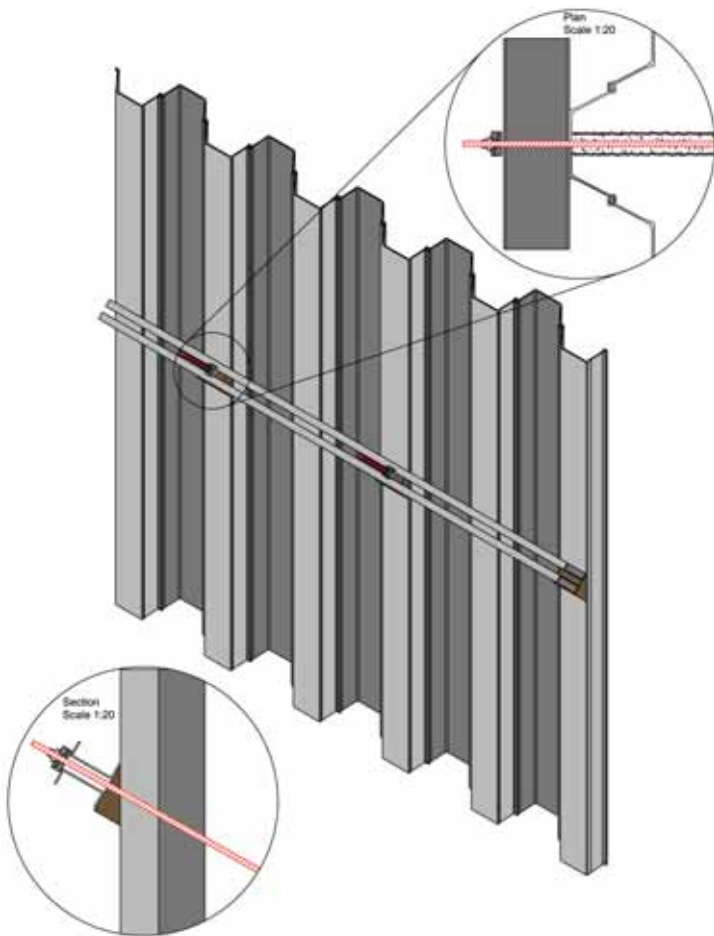
Anchoring

Technical Details

- Sheet pile is stabilised by anchor systems
- May be connected to a 'dead-man pile'
- The anchor and sheet pile act as part of a system to retain the load
- Spacing of anchors is based on the wall height, strength of the water and holding capacity of the anchor
- In permanent works corrosion or deterioration of the tie-backs is factored
- Holding capacity is related to the anchors' structural integrity, its surface area, and the strength of the soil

Benefits

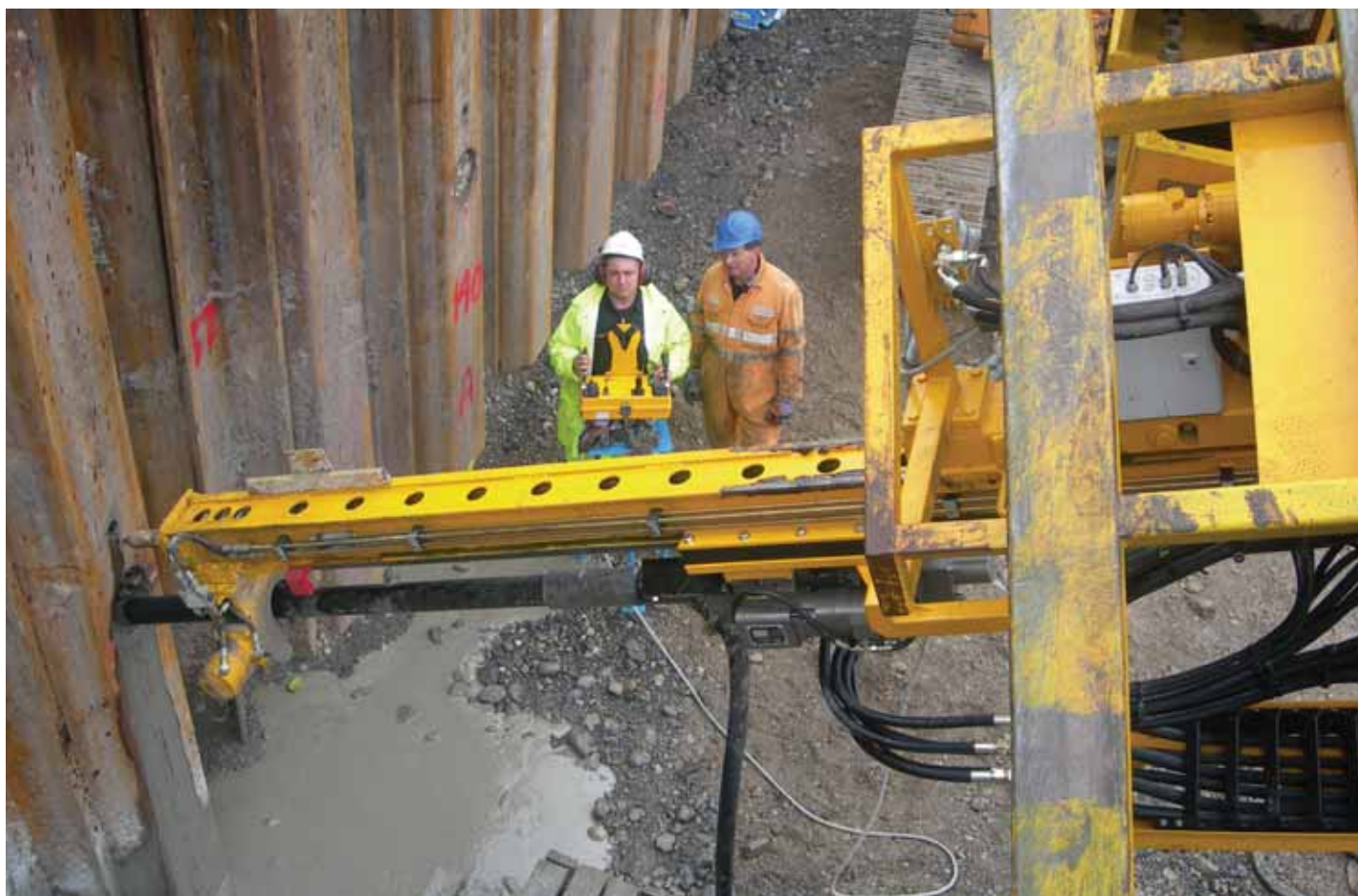
- Use of a hollow bar is three times faster than conventional systems
- Drilling, anchor installation and grouting is done in a single operation
- No casing is required in collapsing ground conditions
- No separate anchor installation or removal of casing and drill rods are necessary
- Hollow core serves for flushing during drilling and grouting
- Flexibility in length due to the utilization of couplers
- Easily extended if ground conditions change
- Pre-tested anchor assures it will hold design load





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Klemm 140 Excavator Mounted Anchor Rig



Project	Tie-Back Anchors for Sheet Piles
Customer	McDermott & O'Farrell
Location	Naas Shopping Centre, Kildare
Date	August '08



McDERMOTT & O'FARRELL

Sheet Pile with Tie Back Anchors



Project	Tie Back Anchors going into Rock
Customer	Bowen
Location	Douglas, Cork
Date	January '08





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Tie Back Anchors in Permanent Steel Basement



Project	Permanent Steel Basement
Customer	McDermott & O'Farrell
Location	Naas Shopping Centre, Kildare
Date	August '08





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Ground Anchors



Project	Sheet Piling & Anchoring
Customer	Laing O'Rourke
Location	Ballyrickard WWTP, Co. Down
Date	August '07

LAING O'ROURKE

Trench Support Equipment for Hire



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Hire Equipment

- Hammers
- Trench Boxes
- Sheet Piles
- Anchoring
- Frames
- Walers
- Struts/Props
- Linear Shoring
- Stoppers





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Trench Shoring Systems – End Supported Systems

Trench Sheets



Double Shoring Trench Sheets

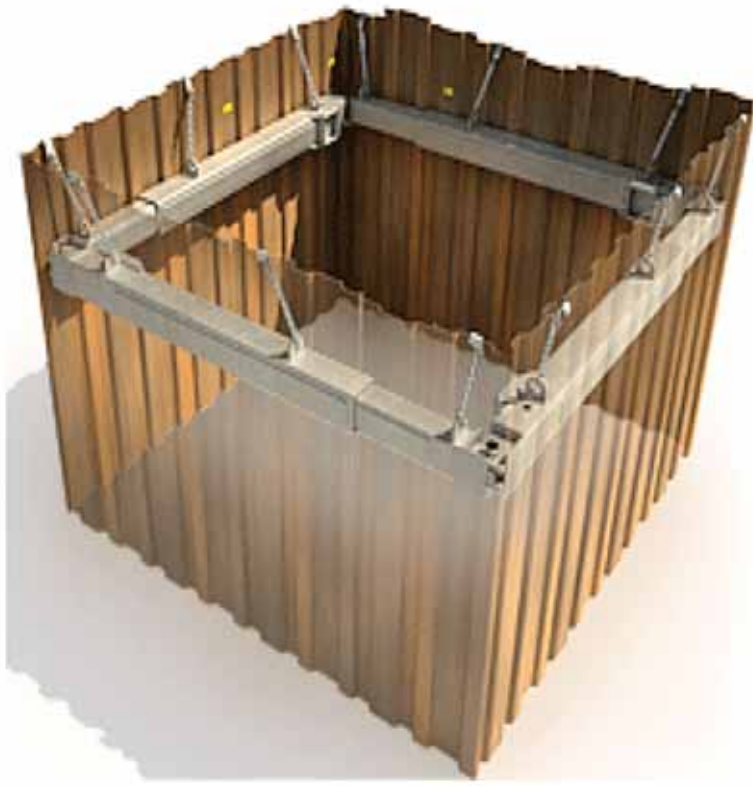




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Heavy Duty Frames / Braces

Heavy Duty Frames used
with Light Sheets



Heavy Duty Frames up
to 35m in Length





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Trench Shoring Systems – End Supported Systems

Lightweight Boxes



Medium Boxes





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Trench Shoring Systems – Sliding Rail Systems

Single / Double Linear Shoring



Magnum Boxes



Trench Shoring Systems – End Supported Systems

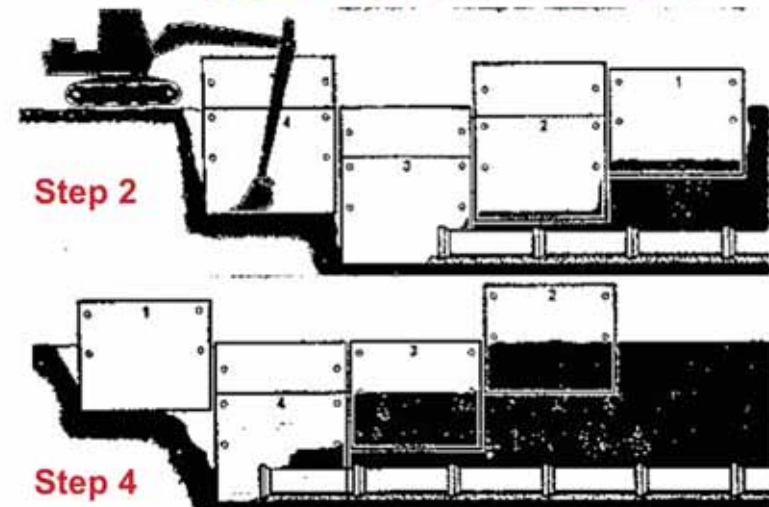
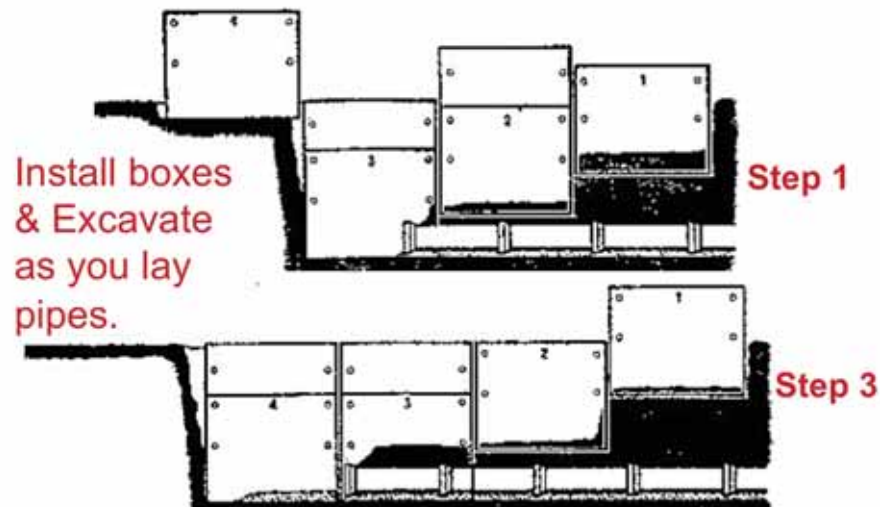
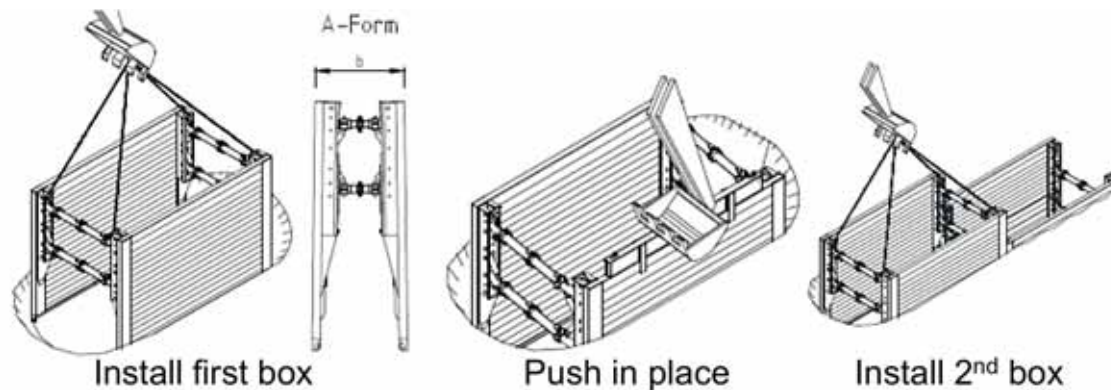
Manhole Box



Dragbox



Trench Shoring Systems – Installation & Use





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Visit www.trenchcontrol.ie for more info!

Contact

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Colm O'Raghallaigh, Managing Director

Trench Control - Trench Equipment & Contract Piling
Trench Control is a leading player in the field of trench support equipment and contract piling.

WATCH: Trench Control - CFA Dual Rotary Rig installing 10m contiguous piles in Dublin

Trench Control Concrete Piling in Dublin

- « Ground Support Hire
- « Sheet Piling
- « Concrete CFA Piling
- « Anchoring
- « Pile Breaking
- « Flood Protection
- Latest News

- Trench Control Supports Lisa in Breast Cancer Run
- Trench Control Opens New Depot in Northern Ireland
- Trench Control Appoint Technical Sales Executive
- New Water Inflated Cofferdam Used on River Boyne

Company Portfolio

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Recent Projects