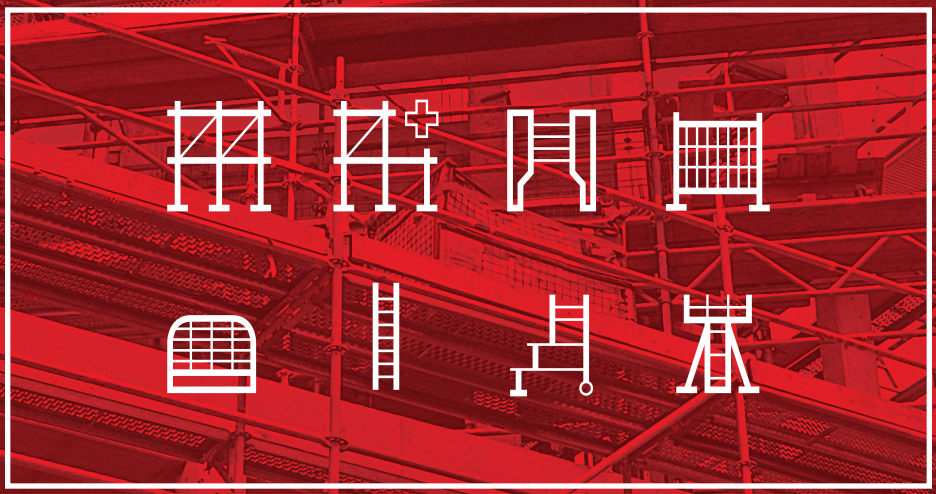
ALTRAD GENERATION
HIRE & SALE



PRODUCT & SERVICES

IRELAND

2025/26

Altrad Generation Hire & Sale

Support for Construction & Industry

Altrad Generation is Ireland's leading supplier of: Scaffolding, Temporary Fencing, Light Access, Edge Protection, Safety Decking, Formwork, Falsework, and Groundworks for hire and sale.

OUR **CUSTOMER COMMITMENT** IS TO DELIVER:

BEST **QUALITY**

We work closely with our suppliers to ensure consistent product quality every time. All our products are specified to meet or exceed statutory requirements, verified by our Quality Assurance team.

BEST **AVAILABILITY**

Our nationwide branch network, transport fleet and stock holding ensure we can supply your equipment needs. What, When and Where you need equipment.

BEST **PARTNERSHIP**

We can take care of all your equipment needs; supplemented by a full range of engineering, design, specification and business services. Our focus is to work together, supporting the growth of your business.

BEST **VALUE**

Our global supply chain, purchasing and lean business means we don't pass on unnecessary costs to you. We aim to provide consistently low prices and the best value when you buy or hire from us.

RESPECT

We treat people with consideration.
We strive to achieve the highest standards.

SOLIDARITY

We trust each other.
We collaborate effectively.

COURAGE

We lead by example.
We rise to the challenge.

HUMILITY

We listen, learn and act.
We open our minds to feedback.

CONVIVIALITY

We create a happy workplace.
We acknowledge our achievements.

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Groundworks

Formwork & Falsework

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Fencing, Hoarding, Barriers & Water Filled Barriers

Altrad Generation is the largest supplier of scaffolding products in Ireland. We got to that position through a combination of providing quality products and service backed up by a knowledgeable team.

The next part of our progression was to go into the temporary fencing market with the same approach and we quickly became one of the biggest providers of this product in Ireland.

To maintain our position and better service our customers on a national basis we expanded our range to include complementary products. Since doing this we are now one of the biggest suppliers of non mechanical plant including temporary fencing, pedestrian barriers, water filled barriers, hoarding, acoustic barriers, edge protection and groundworks products. The Altrad Generation branch network provides Ireland wide local coverage. Supported by a fleet of four 26 ton commercial vehicles with Hiab cranes for easy on/off loading.

Our expertise and knowledge leaves us confident that we can efficiently supply the best products for your requirements making sure that you receive the best quality items at the right place, right time every time.

Altrad Generation are one of the biggest providers of Temporary Fencing and can offer the most effective and economic solutions for Temporary Fencing and Barriers for site boundaries. Easily locking together, both fencing and barriers can be quickly erected on site to provide a safe and secure temporary boundary. A full range of additional components can also be supplied; such as pedestrian and vehicle gates extensions and stabilisers.

All our fence panels are manufactured using SMARTWELD technology meaning that they are stronger than ever and have 100% product quality and traceability. This method of manufacture provides a 360º weld at the joins, every panel has these automatically tested to ensure that the frame can withstand a load of 500kg and only if it passes this test will it be given a batch code. However it is not only the strength of the frame that makes these panels stand out, these panels offer maximum strength as the mesh is pulled taut prior to welding for full rigidity. This process not only that the best fencing reaches you but also means that you can standardize your products. Altrad Generation fence panels fully comply with the recommendations of the guidance note HS(G)151 - Protecting the Public.

Temporary Fencing

Square Top Anti-Climb Panel

The Square Top Anti-Climb Panel is available in heavy duty, light duty, and with corner brackets. Full HSG151 compliant panel with anti-climb mesh, low profile and lightweight making it easy to stack and transport. This panel has 100% product quality and traceability, with every panel tested, passed and provided with a unique ID in the factory.

Code	Description	Length	Height	Width	Weight
TF0140	STD Square Top Panel	3450mm	2025mm	-	13.60kg
TF0240	HD Square Top Panel	3450mm	2025mm	-	15.60kg

HD Anti Climb Panel

A strong "industry standard" round top panel with Anti-Climb Mesh Fence Panel where security is at a premium. Fully HSG151 compliant to ensure on-site product compliance and safety. Strength, security and longevity are delivered through Smartweld technology. A 360° weld on 38mm tube with fitted corner webs. 100% product quality and traceability, with every panel tested, passed and provided with a unique ID in the factory.

Code	Description	Length	Height	Width	Weight
TF0850	HD Anti Climb Panel	3450mm	2000mm	-	14.00kg

Temporary Fencing

HD+ Anti Climb Panel

The heaviest and strongest round top panel with Anti-Climb Mesh Fence Panel where security is at a premium. Fully HSG151 compliant to ensure on-site product compliance and safety. Strength, security and longevity are delivered through Smartweld technology. A 360º weld on 38mm tube with fitted corner webs. This panel has 100% product quality and traceability, with every panel tested, passed and provided with a unique ID in the factory. Every single wire is welded to the frame meaning 174 individual welds.

Code	Description	Length	Height	Width	Weight
TF0860	HD+ Anti Climb Panel	3450mm	2000mm	-	16.00kg

Round Top Anti-Climb Panel Center Bar

Code	Description	Length	Height	Width	Weight
TF0800	Round Top Anti Climb Panel	3450mm	2000mm	-	13.90kg

Fencing Stability

Description
Fence Stabiliser (HSG151) Small
Stabiliser Pin
Standard Black Rubber Foot

Description
Fence Stabiliser
Stabiliser Pin
Standard Black Rubber Foot

Description
Fence Stabiliser
2 x Standard Black Rubber Foot

Description
Zero Trip Stabiliser Base
Zero Trip Cranked Stabiliser

Fencing Stability

Description
Hoarding Stabiliser
Rear Block Tray
Standard Black Rubber Foot

Description
Hoarding Stabiliser
Rear Block Tray
Stabiliser Brace
Standard Black Rubber Foot

Description
Fence Stabiliser (HSG151) Small
Stabiliser Pin
50kg Ballast Block
Standard Black Rubber Foot

Description
Ballast Block Stabiliser
2 x 50kg Ballast Block
Standard Black Rubber Foot

Fencing Stability

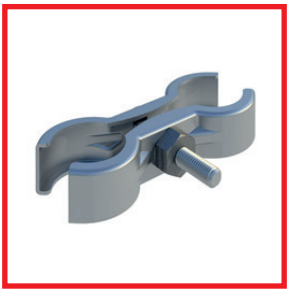
Description
Small Connecting Tube
Windbreaker Loading Tray
Windbreaker Small Footprint Stabiliser
Windbreaker Zero Trip Foot

Description
Hoarding Stabiliser
Windbreaker Loading Tray
Windbreaker Connecting Tube
Windbreaker Zero Trip Foot

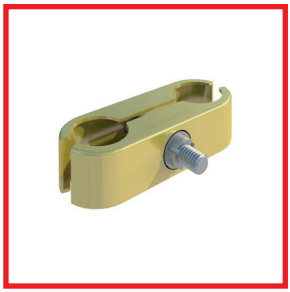
Description
Fence Stabiliser (HSG151) Small
Block Cradle
Standard Black Rubber Foot

Fencing Accessories

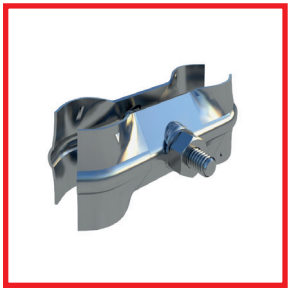
Desc.	Standard Black Rubber Foot
Code	**TF0300**



Desc.	Gripper Coupler Lite
Code	**TF0801**



Desc.	HD Lockable Gripper Coupler
Code	**TF1200**



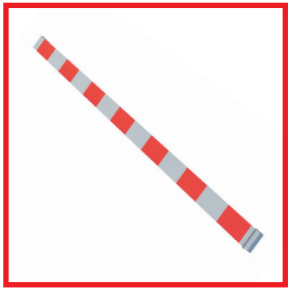
Desc.	Fence Coupler
Code	**TF0200**

Desc.	Gripper Coupler
Code	**TF0220**

Desc.	Anti-Lift Device
Code	**TF0500**

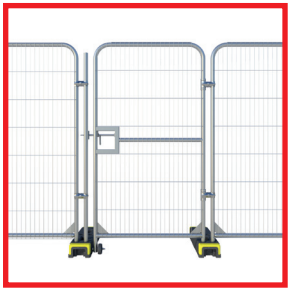
Desc.	Ballast Block Lifter
Code	**TF0325**

Desc.	Lockable Coupler Spanner
Code	**TF1300**



Desc.	Reflective Strip
Code	**TF0630**

Fencing Accessories



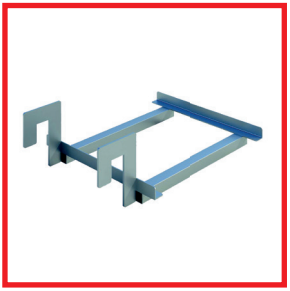
Desc.	1m Anti-Climb RT Ped Gate
Code	**TF0150**

Desc.	4.2m Anti-Climb RT Vehicle Gate
Code	**TF0162**

Desc.	Fence Stillage
Code	**TF0613**

Desc.	Stabiliser (HSG151) Small
Code	**TF0606**

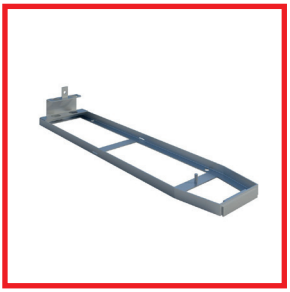
Desc.	Fence Stabiliser
Code	**TF0600**



Desc.	Block Cradle
Code	**TF0618**

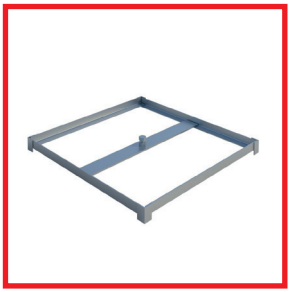
Desc.	Stabiliser Pin
Code	**TF0605**

Desc.	Ballast Block Stabiliser
Code	**TF0322**



Desc.	Zero Trip Stabiliser Base
Code	**TF0622**

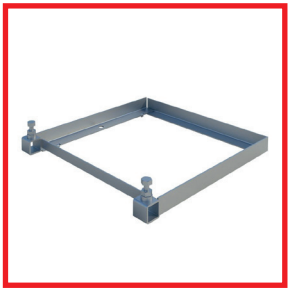
Fencing Accessories



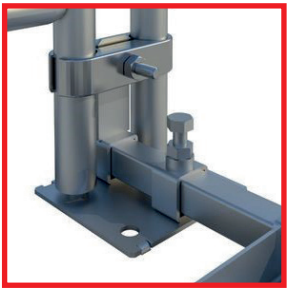
Desc.	Hoarding Rear Block Tray
Code	**TF1010**

Desc.	Hoarding Stabiliser Brace
Code	**TF0621**

Desc.	Hoarding Stabiliser
Code	**TF0601**



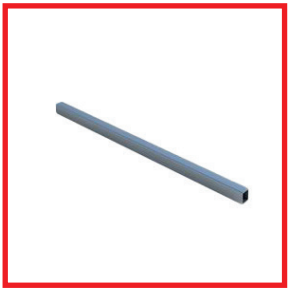
Desc.	Windbreaker Loading Tray
Code	**TF0617**



Desc.	Windbreaker Zero Trip Foot
Code	**TF0615**

Desc.	Windbreaker Connecting Tube
Code	**TF0616**

Desc.	Windbreaker Small Footprint Stabiliser
Code	**TF0614**



Desc.	Windbreaker Small Connecting Tube
Code	**TF0619**

Desc.	50kg Gen Ballast Block
Code	**TF0321**

Fencing Accessories

Desc.	Traffic Cone
Code	**RNOLAN**

Acoustic Barrier System

Water and fire proof PVC and foam acoustic barriers that reduces site noise by 30 decibels. Increasingly important on sites to improve worker welfare and maintain community relations. Commonly used in highly populated areas where noise and proximity will cause issues and complaints i.e. city centre sites, late night work, on rail track maintenance and road works. The lightweight and roll up design makes it easy to store, transport and construct by attaching to any site fencing or scaffolding. Reflective strips for night time visibility and easy to add signage and branding. BS EN 60529 Compliant. Fixing kits available. (Use 3 Acoustic Barriers per 3.5m wide fence) Corporate branding is also available.

Code	Description	Length	Height	Width	Weight
NGARDZ	Echo Barrier	1200mm	2000mm	-	6.00kg

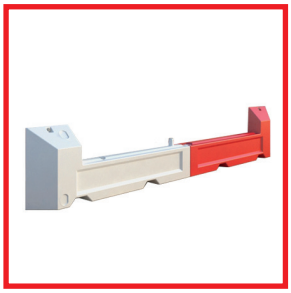
Fencing Accessories

Altrad Generation Slot Block

The Slot Block is a water filled stability system that can accommodate an industry standard 3.5m × 2.0m mesh panel.

This space saving system has a width that is less than a standard fence foot so maximizes inner working space. Slot Block has minimum trip hazard and is flush fitting to the floor, making it ideal for schools, inner city contracts or public footpaths. It can rotate at 45 degrees to provide flexibility when setting up.

Accessories include 1250 × 150 reflective strips and lights can be added for increased visibility. (2 x 1750m sections required for use with standard 3.5m size fence panel).



Code	Description	Length	Height	Width	Weight	W.Ballast
SLOT01	Slot Block	3500mm	600mm	380mm	14.00kg	320.00kg

Temporary Steel Hoarding

This is a portable steel hoarding system which combines the flexibility of temporary fencing with the strength & security of hoarding. These hoarding panels are available in 2 height sizes, 2.0m & 2.4m, albeit the most popular size is 2.0m. The panels come in a plain galvanized finish as standard but company livery can be achieved by painting, powder coating and/or stripes. Ideal solution to prevent unauthorised access, perimeter fencing, privacy requirements, and protection of the public and Altrad Generation provides full advice and the range of accessories to ensure the solid panelling is stable in windy site conditions.

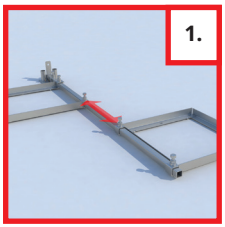
Hoarding Panel

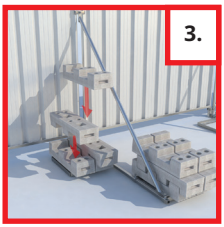
Code	Description	Length	Height	Width	Weight
TF1020	2.0 Hoarding Panel	2140mm	1980mm	0.5mm	25.30kg
TF0165	2.4 Hoarding Panel	2140mm	2380mm	0.5mm	30.00kg

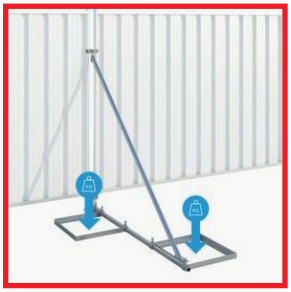
Hoarding Stability

Altrad Generation Windbreaker System

Altrad Generation provide a free site wind assessment to ensure you get the right fencing and hoarding for your site. Our range of products, expert support and wind portal analysis provides will identify the right wind-breaker and stability systems for your needs.







Standard Windbreaker System

Description
Hoarding Stabiliser
Windbreaker Loading Tray
Windbreaker Connecting Tube
Windbreaker Zero Trip Foot

Compact Windbreaker System

Description
Small Connecting Tube
Windbreaker Loading Tray
Windbreaker Small Footprint Stabiliser
Windbreaker Zero Trip Foot

Hoarding Stability

Description
Big Foot Tubular Base
Big Foot Stabiliser HD
Big Foot Loading Tray
Big Foot Kentledge Block (780kg)

Description
Big Foot Tubular Base
Big Foot Small Footprint Stabiliser
Big Foot Loading Tray
Big Foot Kentledge Block (390kg)

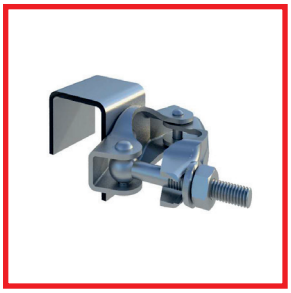
Description
Hoarding Stabiliser
Rear Block Tray
Stabiliser Brace
Anti-Lift Device
Standard Black Rubber Foot

Hoarding Accessories

Desc.	Standard Black Rubber Foot
Code	**TF0300**

Desc.	Gripper Coupler
Code	**TF0220**

Desc.	Anti-Lift Device
Code	**TF0500**



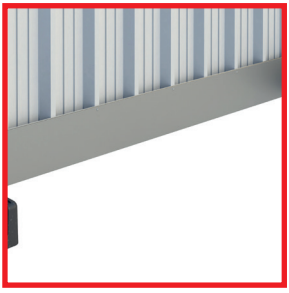
Desc.	Hoarding to Scaffold Coupler
Code	**TF0230**

Desc.	Big Foot Block Tray
Code	**TF0103**

Desc.	Vehicle Gate
Code	**TF0163**

Desc.	Pedestrian Gate
Code	**TF0161**

Desc.	Galvanised Infill Sheet
Code	**TF1040**

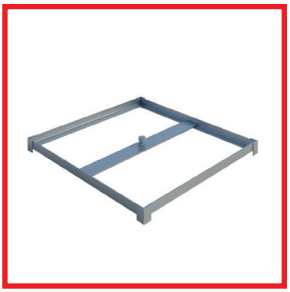


Desc.	Galvanised Infill Skirt
Code	**TF1042**

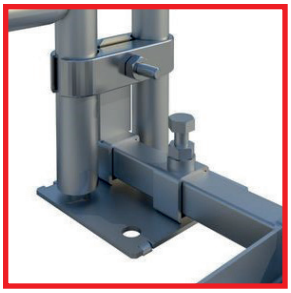
Hoarding Accessories

Desc.	Hoarding Stabiliser Brace
Code	**TF0621**

Desc.	Hoarding Stabiliser
Code	**TF0601**

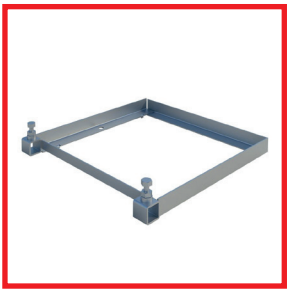


Desc.	Hoarding Rear Block Tray
Code	**TF1010**



Desc.	Windbreaker Zero Trip Foot
Code	**TF0615**

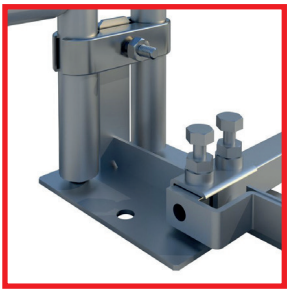
Desc.	Windbreaker Connecting Tube
Code	**TF0616**



Desc.	Windbreaker Loading Tray
Code	**TF0617**

Desc.	Windbreaker Small Footprint Stabiliser
Code	**TF0614**

Desc.	Windbreaker Small Connecting Tube
Code	**TF0619**



Desc.	Big Foot Tubular Spigot Base
Code	**TF0105**

Hoarding Accessories

Desc.	Big Foot Stabiliser HD
Code	**TF0104**

Desc.	Big Foot 390kg Kentledge Block
Code	**TF0102**

Desc.	Big Foot 780kg Kentledge Block
Code	**TF0107**

Wind Resistance Calculator

The Altrad Generation Wind Resistance Calculator service is a technical support resource specifically designed to help sites meet the requirements of BS5975 'Temporary Works Design' relative to temporary fencing and hoarding installations.

The service provides Altrad Generation customers with guidance on the expected wind resistance capabilities of a range of freestanding fence panel products with various stability systems to help them choose the right product for safety and security for their site.

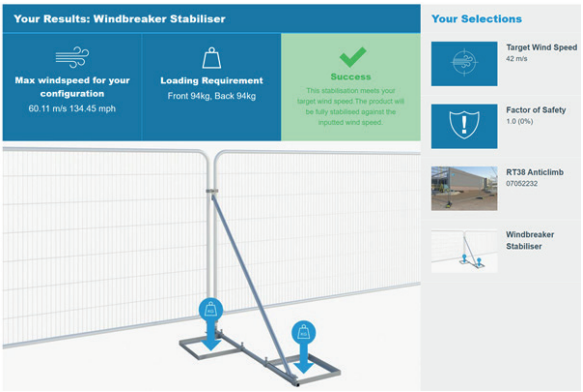
Before using the Calculator or requesting advice it is advisable to obtain your own site specific information such as prevailing wind speeds, direction of wind, location (coastal, inner city or exposed sites are more prone to the elements for example) and if a factor of safety is stipulated.

Once the site specific wind speed has been obtained you can then configure a panel and stabilisation system to match those conditions. The resistance values are approximations and are for general guidance only.

The readings in this document refer to zone D which relates to 4th fence panel or 5th hoarding panel in a continuous run. The results are based on the chosen stability method to be installed on every panel.

Note that wind-load calculation data is based on Altrad Generation product specifications and as such are only applicable to these products sourced from Altrad Generation either for hire or sale. Market alternatives may not give the same result as these readings so this document must not be used as reference to competitors products.

Please contact a member of our team, they will be able to assist in advice on which systems suit your site & provide the corresponding generic wind loading calculation.



Pedestrian Barriers

Fixed Leg Barrier

Altrad Generation barriers have a strengthening bar between the legs which stop them splaying and improves longevity. The fixed feet have a domed finish to make them crush resistant and safer should they be pushed over. Each barrier has 2 locking hooks to stop unauthorised dismantling on site. This barrier is supplied in a standard galvanised finish, but can be powder coated in any RAL/ BS colour at an additional cost. For windloading a 16kg ballast block can be used.

Code	Description	Length	Height	Width	Weight
CCB203	Fixed Leg Barrier Galv	2262mm	1100mm	-	10.60kg
CCB220	Fixed Leg Barrier Red	2262mm	1100mm	-	10.60kg
CCB209	Fixed Leg Barrier White	2262mm	1100mm	-	10.60kg

Bar Barrier

This barrier is a galvanised steel loose Bar Barrier can be used with either a double flat foot to reduce trip or a thermo plastic foot. This barrier is ideal for easy transportation and storage. Strong and versatile, galvanised and fully interlocking.

Code	Description	Length	Height	Width	Weight
CCB300	Bar Barrier	2300mm	1100mm	-	10.60kg

Pedestrian Barriers

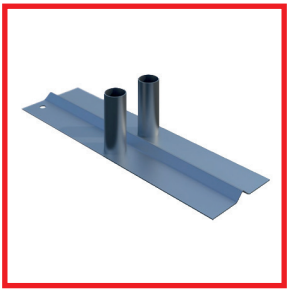
Fixed Leg Walkthrough (Available w/wo gate)

Provides a safe access point for pedestrians in conjunction with Crowd Control Barriers.
It is interchangeable with the 2.3m Fixed Leg Bar Barrier & supplied in red for easy visibility.
For better safety on site it is recommended that these are supplied with the self closing gate.

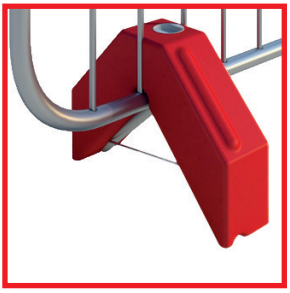
Code	Description	Length	Height	Width	Weight
CCB201	Fixed Leg WT	2266mm	2143mm	-	12.90kg
CCB202	Fixed Leg WT & Gate	2266mm	2143mm	-	18.70kg

Related Products

Desc.	Standard Black Rubber Foot
Code	**TF0300**



Desc.	Double Metal Foot
Code	**TF0900**



Desc.	16kg Barrier Ballast Block
Code	**CCB240**

Pedestrian Barriers

Chapter 8 Barriers

Complies with BS7818 making it ideal for event management and pedestrian control. Linking system design creates secure joints on even or uneven terrain. Constructed from tough, high density polythene (HDPE). Designed for secure stacking and easy transportation. Compliant with Chapter 8 street works. Available with Anti-Trip foot options. *Other colours available on request, company branding also available.

Gate & Firmus Barrier

Code	Description	Length	Height	Width	Weight
FRONT1	Gate Barrier	2000mm	1000mm	-	9.00kg
AVALON	Firmus Barrier (Sale Only)	2000mm	1075mm	-	-

Altrad Generation WonderWall™

The Altrad Generation WonderWall™ is a heavy duty barrier system that complies with Chapter 8 street works & reflectivity requirements of BSEN12899-1. This robust barrier gives stability in high winds without the need for extra ballast. It creates a safer working environment when Barrier is deployed near the road side, or excavations on site. Quick & easy to install ease by one person. To increase the height of this system to 2metres the Double Top can be added to this product.

Code	Description	Length	Height	Width	Weight	W.Ballast
SW0001	Wonder Wall	1140mm	1000mm	520mm	25.00kg	-

Pedestrian Barriers

Altrad Generation Double Top

The Altrad Generation Double Top is a multi-use barrier top designed for use on the WonderWall™ and Buddha barrier systems. Simple Hook & Eye connectivity removes the need for additional brackets associated with conventional metal tops. The Double Top is lightweight, durable and has the option for reflective on the spindles.

Code	Description	Length	Height	Width	Weight	W.Ballast
T2MDBL	Double Top	1000mm	2065mm	520mm	25.50kg	-

Titan Barrier

The recognised and well established stacking barrier from Altrad Generation it has all the usual advantages of standard stackable systems but in addition provides many unique features. The barrier has undergone modifications to further improve longevity and to meet the proposed NRSWA changes effecting wind stability as set out in BS8442 (when erected and assembled correctly).

Code	Description	Length	Height	Width	Weight
T2MBSH	Titan Barrier 1.5m	1530mm	1005mm	-	13.50kg
T2MBSO	Titan Barrier 2.0m	1932mm	1005mm	-	14.60kg

Traffic Management Barriers

Altrad Generation is the largest supplier of access, scaffolding, temporary fencing and non mechanical plant equipment across Ireland. Since adding traffic management products into our range the demand has grown extensively and we offer all types of water filled & self weighted solutions. The range varies from low level traffic separators, intermediary products that can achieve a greater height (similar to temporary fencing) heavy duty barriers and even crash tested products. All temporary traffic barriers must be able to withstand three different classes of wind speeds with the use of a ballast. The standard BS 8442:2015 states the three classes as the following:

Class A: 26.3 m/s (58 mph)
Class B: 17.6 m/s (39 mph)
Class C: 8.7 m/s (19 mph)

Where MIRA is stated this is a physical not theoretical test where the barrier system was filled with water and tested under strict conditions at the Full Scale Wind Tunnel at MIRA to determine at which wind speeds the barrier can withstand. If the barrier is to be a crash tested product it must be free standing at 50Mph (80KMph) to conform with BS EN1317-N. One piece moulded crash barrier system that will bring a car to a controlled stop.

Evo Barrier

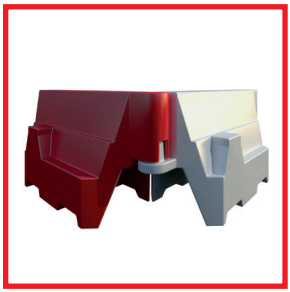
Versatile and variable height barrier system that creates a solid wall when linked together for traffic demarcation and pedestrian safety. The Evo design allows the 2 different sizes to interlock and deliver barrier protection at variable heights. Fully stackable to make them easy to transport and store with a high barrier to pallet ratio and full load quantities. Constructed in UV stabilized prime polyethylene and water/sand filled to provide more stability where longer term use is required. Fast and easy to assemble on site with no additional lifting equipment required.

Code	Description	Length	Height	Width	Weight	W.Ballast
CCB600	1.0m Evo Barrier	1000mm	555mm	400mm	6.00kg	26.00kg
CCB650	1.5m Evo Barrier	1500mm	555mm	400mm	10.00kg	30.00kg
EVO002	1.0m Evo Mesh Top	-	-	-	-	-
EVO003	1.5m Evo Mesh Top	-	-	-	-	-

Traffic Management Barriers

Pyramid Barrier

This traffic separator comes in red and white finish as standard but can be produced in corporate colours if required, dependent upon quantity. This low level barrier is unique in the way that it rotates a full 90 degrees without the need for specialist items, this enables contractors to literally 'box off' projects. Stackability is no issue and is compatible with most of the existing barriers available on the market. A 455mm mesh topping is available to an overall height of 1m. This barrier is an alternative to the 1.0m Evo Barrier and is compatible with the Mini Mesh Panel.



Code	Description	Length	Height	Width	Weight	W.Ballast
T2MBRY	Pyramid Barrier	1000mm	560mm	400mm	5.00kg	55.00kg

Novus Barrier

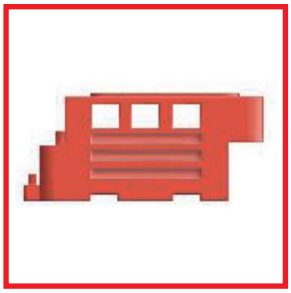
Made from prime UV stabilised MDPE, the Novus Barrier is an excellent option for creating a safe, highly visible temporary working area or site. It is robust and adaptable and when used with mesh panels for added height, it provides a secure division between workers, vehicles, pedestrians and hazardous zones. The Novus is available in various colours and has the option of adding reflective strips for increased visibility.

Code	Description	Length	Height	Width	Weight	W.Ballast
T2MBNB	Novus Barrier	2000mm	800mm	520mm	25.00kg	180.00kg
T2MBNT	Novus Mesh Top	-	-	-	-	-

Traffic Management Barriers

RB2000 Barrier

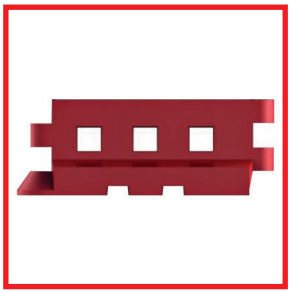
For complete road, site safety and security a 1m high heavy duty low level containment barrier. Its five-position unlocking system makes it highly flexible and it flows around corners and uneven surfaces. Constructed in UV stabilized prime polyethylene it weighs up to 400kg when filled to create a solid secure system. Anti-climb mesh and hoarding panels can be added to increase height and security. Compatible with Infill, pedestrian gate and vehicle gate. Front and end stops to prevent trip hazard and improve pedestrian safety.



Code	Description	Length	Height	Width	Weight	W.Ballast
RB2000	RB2000 Barrier	1650mm	1000mm	400mm	35.00kg	400.00kg

GB2 Barrier

Ideal product for highway or site delineation for pedestrian & vehicle safety. A robust heavy duty adaptable barrier system suitable for low level demarcation. This barrier has a 2 metre working length and height of 0.9 metre with a pin locking device which allows each barrier to have a 35 degree configuration to adapt to angles and curves. Fully stackable for transport and storage. Anti-climb mesh and hoarding panels can be added to increase height and security.

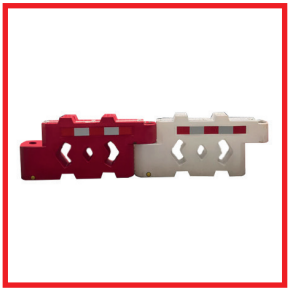


Code	Description	Length	Height	Width	Weight	W.Ballast
T2MGB2	GB2 Barrier	2000mm	900mm	500mm	32.00kg	350.00kg

Traffic Management Barriers

Bison Barrier

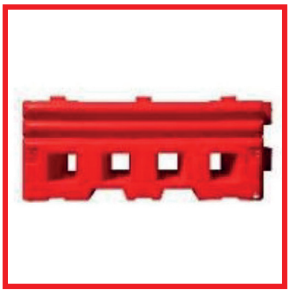
The Bison Barrier is a water filled barrier ideal for designating safe routes for pedestrians and vehicles. Fully stackable with an anti-slide feature for transportation and storage. Available in red and white with Chapter 8 compliant reflective strips fitted as standard for greater visibility & safety. Designed using a pin locking system which allows a 90-degree angle between barriers so that multiple configurations can be created to suit site constraints which makes it the ideal product for inner city projects where space is at a premium. Solid hoard or mesh panels can be added to the top of these barriers to increase security.



Code	Description	Length	Height	Width	Weight	W.Ballast
T2MBIS	Bison Barrier	2000mm	1000mm	400mm	-	-

RB22 Barrier - Crash Tested

One piece moulded crash barrier system that will bring a car to a controlled stop. Crash tested whilst free standing at 50Mph (80KMph) to conform with BS EN1317-N1. Reusable after impact if not punctured/damaged. Lighter, looks better and easier to transport than concrete equivalent and does not require heavy equipment required to load/unload and assemble. Easy to lock together in formation with quick secure pin hinge set on two flat, screw fitted, steel plates for strength, speed and ease of assembly.

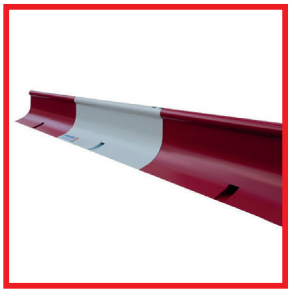


Code	Description	Length	Height	Width	Weight	W.Ballast
T2MR22	RB22 Barrier	2000mm	800mm	500mm	60.00kg	600.00kg

Traffic Management Barriers

Mass Barrier

Traffic Management Safety System is a high visibility safety solution and ensures a stable secure connection. It is the basis of this system and its versatility allows it to be used in many applications. The system has been fully tested providing protection to work force, vehicle drivers as well as pedestrians.



The base unit is a steel barrier consisting of hot dip galvanised elements, powder coated in highly visible safety colours. Individual base units are 150cm long x 50cm wide x 42cm high and weigh 48kg. Each unit links together via vertical pins. The various top sections can be added as specific jobs demand. Specially adapted units enable the system to rotate through 180°.

Code	Description	Length	Height	Width	Weight
MG100R	Mass Barrier - Red	1500mm	420mm	500mm	48kg
MG100W	Mass Barrier - White	1500mm	420mm	500mm	48kg

Notes

Groundworks

Trench Boxes

Drag Boxes

Manhole Boxes

Trench Box Safety Ancillaries

Alloy Waler Rails

Geobrace

Tubeshor

Trench Sheeting

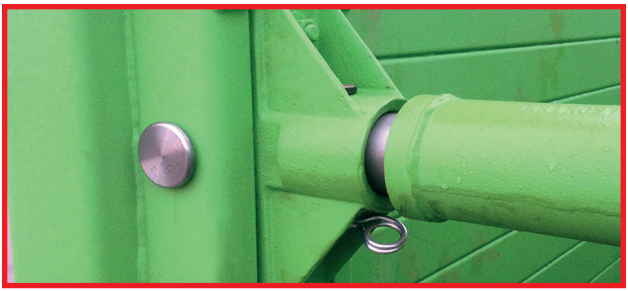
Groundwork Ancillaries

Ground Protection

Roadforms

Trench Boxes

Altrad Generation Trench Boxes are simple to assemble, two-sided excavation support systems designed to be installed by an excavator utilising the 'dig and push' or 'excavate and lower' techniques. Trench Boxes are often used where rapid installation of utility pipelines and trench runs are required. Trench Boxes provide a safe working environment for those on site by safely withstanding the surrounding soil pressure. Trench Boxes can be used in conjunction with four-sided Manhole Boxes to provide complete protection for personnel. Drag Boxes offer a speedy alternative to a Trench Box when laying long pipe runs. If the Permissible SWL is exceeded, **ALWAYS** enquire about our design service. Manhole Braces and Alloy Waller's can be used as alternatives.



Backhoe Trench Box

	Base Unit	Top Unit
Length (mm)	3000	3000
Height (mm)	2000	960
Min Width External (mm)	690	690
Max Width External (mm)	2690	2690
Min Width Internal (mm)	570	570
Max Width Internal (mm)	2570	2570
Thickness (mm)	60	60
Max Clearance Between Struts (mm)	2690	2690
Max Clearance Under Lower Strut (mm)	980	-
Permissible SWL (kN/m^2)	19.40	19.40
Weight (kg)	822	441
Max Depth (mm)	2960	-

The Backhoe Trench Box is a lightweight Trench Box designed for inner city shoring jobs. Used to support sides of excavations, generally used for the laying of small diameter utility pipes such as gas, water, telecoms or power cables. Designed for use with smaller machines such as 180' excavators and rubber tyred excavators. Lightweight alternative to Standard & Mini Trench Boxes when lifting capacity is an issue on site. Effective down to 3.00m, provided ground pressure does not exceed the Permissible SWL of 19.40 kN/m2 for this Box.

Trench Boxes

Backhoe Trench Box

The Backhoe Trench Box is a robust piece of equipment, which acts as a safety shield to provide a safe working area below ground level. For use when working on excavations and pipe laying operations. The Backhoe Trench Box can sustain working earth pressures of up to 20kN/m^2, users should check that the excavation will not impose greater pressures than this.

Installation is easy through the 'Dig and Push' method. This ensures that the side walls of the excavation are supported, and minimises the likelihood of an accident. The panels are 3000mm long by 2000mm deep with a width range of 720mm to 1720mm which can be altered using telescopic struts these are secured in place using the 'Pin and Clip' system, which connects all components. Backhoe Box tops can be used to obtain 3000mm in depth.

- Provides safe working area below ground
- SWL of 20kN/m^2
- Easily Assembled
- Dig and Push method
- 3000m long x 2000m base panels
- Width range of 720mm to 1720mm
- Extension tops are 3000mm x 1000mm
- Maximum working depth 3000mm
- Pin and 'R' Clip method
- Base unit weight of 730kg
- 1200mm clearance below lower strut
- Additional Equipment available

Struts	Internal (mm)
Size 1	600 - 800
Size 2	800-1000
Size 3	1000-1200
Size 4	1200-1400
Size 5	1400-1600

Backhoe Trench Box	Base	Top
Panel Length (mm)	3000	3000
Panel Height (mm)	2000	1000
Panel Thickness (mm)	60	60
Overall External Trench Width (mm)	720 - 1720	720 - 1720
Weight (kg)	730	420
Distance Between Struts (mm)	2670	2670
Clearance Below Strut	1200	-
Standard Working Load	20kN/m^2	20kN/m^2

Trench Boxes

BV60 Trench Box

	Base Unit	Top Unit
Length (mm)	3000	3000
Height (mm)	2000	1000
Min Width External (mm)	820	820
Max Width External (mm)	3820	3820
Min Width Internal (mm)	700	700
Max Width Internal (mm)	3700	3700
Thickness (mm)	60	60
Max Clearance Between Struts (mm)	2600	2600
Max Clearance Under Lower Strut (mm)	950	-
Permissible SWL (kN/m²)	23.50	23.50
Weight (kg)	1154	638
Max Depth (mm)	4000	-

Two-sided mechanical excavation support BV60 Trench Boxes, ideal for the installation of utility pipes and services when ground movement is non-critical. This simple and easy to assemble system has adjustable struts that allow quick width adjustments in trench sizes up to 4m deep and 3.820m wide. Designed to be installed by an excavator using either the dig and push or excavate and lower in place technique, bottom cutting edge for ease of installation, Top panels available to increase excavation depth & compatible with End Panels.

Trench Boxes

Mini Trench Box

The Mini Trench Box can be used in trenches up to 4000mm deep with widths from 610mm to 3200mm, which can be altered using telescopic struts. Up to two extension Boxes can be added on top of the mini Trench Box to achieve additional depth.

- Support Below Ground
- Quick & Easy To Install
- Extension Boxes Available To Increase Depth
- Used In Trenches Up To
- 4000mm Deep
- Dig & Push Method Used
- Pin & Clip System
- Additional Equipment Available

Struts	Internal (mm)
Size 0	600 - 800
Size 1	800 - 1200
Size 2	1200 - 1600
Size 3	1600 - 2000
Size 4	2000 - 2400

Mini Trench Box	Base	Top
Panel Length (mm)	3000	3000
Panel Height (mm)	2000	1000
Panel Thickness (mm)	60	60
Overall External Trench Width (mm)	610 - 3200	610 - 3200
Weight (kg)	1232	676
Distance Between Struts (mm)	2720	2720
Clearance Below Strut	1100	-
Standard Working Load	20kN/m^2	20kN/m^2

Trench Boxes

BV100 Trench Box

	Base Unit	Top Unit	Base Unit	Top Unit
Length (mm)	3500	3500	5000	5000
Height (mm)	2360	1300	2360	1570
Min Width External (mm)	900	900	1500	1500
Max Width External (mm)	3900	3900	4000	4000
Min Width Internal (mm)	700	700	1290	1290
Max Width Internal (mm)	3700	3700	3790	3790
Thickness (mm)	100	100	120	120
Max Clearance Between Struts (mm)	3114	3114	4610	4610
Max Clearance Under Lower Strut (mm)	1540	-	-	-
Permissible SWL (kN/m²)	39.70	39.70	34.30	34.30
Weight (kg)	2094	1368	3180	2170
Max Depth (mm)	6260	-	-	-

With its easy 'pin and clip' adjustment, the BV100 Trench Box is the most advanced and effective Box currently being used within the industry. Our BV100 Trench Box being one of the strongest on the market is able to withstand ground pressure of 39.70 kN/m2 and is robust enough to withstand the rigours of everyday site work. Effective down to 6.50m, provided ground pressure does not exceed the Permissible SWL of 39.70 KN/m2 of this Box.

Magnum Trench Box

	Base Unit	Top Unit
Length (mm)	3400	3400
Height (mm)	4000	1970
Min Width External (mm)	960	960
Max Width External (mm)	4150	4150
Min Width Internal (mm)	760	960
Max Width Internal (mm)	3950	3950
Thickness (mm)	100	100
Max Clearance Between Struts (mm)	2950	2950
Max Clearance Under Lower Strut (mm)	2460	-
Permissible SWL (kN/m²)	36.41	36.41
Weight (kg)	3136	2450
Max Depth (mm)	6640	-

The Magnum Trench Box is the largest in the range of Altrad Generation Trench Boxes. It is designed for deep pipe laying activities. The design is similar to Std & BV100 Trench Boxes but it can achieve greater clearance under struts to allow larger diameter pipes to be installed. It provides clearance of 2460mm under strut through a panel height of 4000mm. Effective down to 6.60m, provided ground pressure does not exceed the Permissible SWL of 36.41 kN/m² of this Box.

Trench Boxes

Standard Trench Box

The Standard Trench Box is used to provide a safe working area below ground and ensure that the side walls of an excavation are continually supported. Standard Trench Boxes can be used in conjunction with other Boxes, including Manhole Boxes. They are quick and easy to install.

The Standard Trench Box can be used in trenches up to 5600mm deep with widths from 690mm to 4500mm. Up to two extension boxes can be added on top of the standard Trench Box to achieve additional depth if needed.

- Two-sided Support
- Used In Conjunction With Manhole Boxes
- Additional Top Boxes Available
- Quick & Easy To Install
- Dig & Push Method Used
- Additional Equipment Available

Struts	Internal (mm)
Size 0	600 - 800
Size 1	800 - 1200
Size 2	1200 - 1600
Size 3	1600 - 2000
Size 4	2000 - 2400

Standard Trench Box	Base	Top
Panel Length (mm)	3500	3500
Panel Height (mm)	2600	1500
Panel Thickness (mm)	100	100
Overall External Trench Width (mm)	690 - 4500	690 - 4500
Weight (kg)	2100	1130
Distance Between Struts (mm)	3210	3210
Clearance Below Strut	1500	-
Standard Working Load	40kN/m^2	40kN/m^2

Trench Boxes

Super Trench Box

The Super Trench Box is used to provide a safe working area below ground and ensure that the side walls of an excavation are continually supported. Standard Trench Boxes can be used in conjunction with other boxes, including manhole boxes. They are quick and easy to install.

The Standard Trench Box can be used in trenches up to 6.1m deep with widths from 700mm to 3300mm. Up to two extension boxes can be added on top of the Standard Trench Box to achieve additional depth if needed.

Struts	Internal (mm)	External (mm)
Fixed 700	700	900
Fixed 800	800	1000
Fixed 1000	1000	1200
Fixed 1200	1200	1400
Fixed 1500	1500	1700
A1	1000 - 1300	1200 - 1500
A	1200 - 1500	1400 - 1700
B	1500 - 2100	1700 - 2300
C	2100 - 3300	2300 - 3500

- Two-sided support
- Used in conjunction with Manhole Boxes
- Additional top boxes available
- Quick and easy to install
- Dig and Push method used
- Edge Safe systems available
- Ladder Access systems available
- Additional Equipment Available

Super Trench Box	Base	Top
Panel Length (mm)	5.1	5.1
Panel Height (mm)	2.5	1.8
Panel Thickness (mm)	100	100
Minimum trench width(mm)	700	700
Maximum trench width(mm)	3.3	3.3
Maximum clearance between struts	4.62	4.62
Maximum clearance below strut	1.5	N/A
Weight(kg)	3800kg*	2280kg*
Super working load	40kN/m^2	40kN/m^2

*Varies with strut width

Drag Boxes

Drag Boxes are a speedy alternative to Trench Boxes, where speed of production is paramount. The Drag Box is used in stable, self supporting soil conditions, and is lowered into a pre-dug trench. Then, with the aid of an excavator, it is dragged along via the front strut as pipe production moves along the trench. In order to enable this, a Drag Box has a cutting edge on the front of the box rather than at the bottom. Drag Boxes also tend to be used on green or brown field sites, where there are no services or obstructions. Drag Boxes should only be used as a shield not as a support.

Drag Box 3m

	Base Unit	Top Unit
Length (mm)	3000	3000
Height (mm)	2000	1000
Min Width External (mm)	760	760
Max Width External (mm)	2660	2660
Min Width Internal (mm)	600	600
Max Width Internal (mm)	2500	2500
Thickness (mm)	80	80
Max Clearance Between Struts (mm)	2200	2200
Max Clearance Under Lower Strut (mm)	1000	-
Permissible SWL (kN/m²)	-	-
Weight (kg)	2000	1000
Max Depth (mm)	3000	-

Drag Box 4m

	Base Unit	Top Unit
Length (mm)	4000	4000
Height (mm)	2420	1820
Min Width External (mm)	760	760
Max Width External (mm)	2660	2660
Min Width Internal (mm)	600	600
Max Width Internal (mm)	2500	2500
Thickness (mm)	100	100
Max Clearance Between Struts (mm)	3120	3120
Max Clearance Under Lower Strut (mm)	1380	-
Permissible SWL (kN/m²)	-	-
Weight (kg)	2510	1970
Max Depth (mm)	4240	-

Drag Boxes

Drag Box 5m

	Base Unit	Top Unit
Length (mm)	5000	5000
Height (mm)	2500	1800
Min Width External (mm)	800	800
Max Width External (mm)	2700	2700
Min Width Internal (mm)	600	600
Max Width Internal (mm)	2500	2500
Thickness (mm)	100	100
Max Clearance Between Struts (mm)	4200	4200
Max Clearance Under Lower Strut (mm)	1470	-
Permissible SWL (kN/m²)	-	-
Weight (kg)	3050	2100
Max Depth (mm)	4300	-

Drag Box 7m

	Base Unit	Top Unit
Length (mm)	7000	7000
Height (mm)	2420	1820
Min Width External (mm)	800	800
Max Width External (mm)	2700	2700
Min Width Internal (mm)	600	600
Max Width Internal (mm)	2500	2500
Thickness (mm)	100	100
Max Clearance Between Struts (mm)	6120	6120
Max Clearance Under Lower Strut (mm)	1380	1380
Permissible SWL (kN/m²)	-	-
Weight (kg)	4620	3570
Max Depth (mm)	4240	-

Drag Boxes

Drag Box

The Drag Box acts as a shield to protect users in self-supporting soil. It is designed to withstand up to 25kN/m^2. Installation requires the 'Excavate and Drag' technique the Box is placed in a pre-dug trench and moved after each instalment of pipe.

- Lifting points for safe slinging
- For use in self-supporting soil
- Standard Drag Box 4 Struts
- Edge Safe Systems Available
- Ladder Access System Available
- Can be used in conjunction with Manhole Boxes

Struts	Internal (mm)	External (mm)
Fixed 700	700	900
Fixed 800	800	1000
Fixed 1000	1000	1200
Fixed 1200	1200	1400
Fixed 1500	1500	1700
A1	1000 - 1300	1200 - 1500
A	1200 - 1500	1400 - 1700
B	1500 - 2100	1700 - 2300
C	2100 - 3300	2300 - 3500

Standard Drag Box	5.0m x 1.8m	5.0 x 2.5m	7.0m x 2.0m
Panel Length (mm)	5000	5000	7000
Panel Height (mm)	1800	2500	2000
Panel Thickness (mm)	100	100	100
Minimum External Trench Width (mm)	700	700	700
Maximum Internal trench width (mm)	3300	3300	3300
Clearance Between Struts (mm)	4520	4520	6580
Max Clearance Below Bottom Strut	1072	1500	1500
Maximum Weight (kg)	2370	3020	4550
Standard Working Load	25kN/m^2	25kN/m^2	25kN/m^2

Drag Boxes

Maxi Drag Box

The Maxi Drag Box is ideal for use with long pipe runs, the size increases productivity allowing for a faster installation time. The Maxi Drag Box can be installed using the 'Excavate and Drag' technique. The Box is placed in a pre-dug trench and pulled along the trench as each section of pipe laying is completed.

- For use in self-supporting soil
- Lightweight
- From 2400kg in weight
- Edge protection systems available
- Ladder access systems available
- Can be used in conjunction with Manhole Boxes

Struts	Size (mm)	Internal (mm)
Size A	508	550 - 750
Size B	838	800 - 1150
Size C	1190	1150 - 1500
Size D	1540	1500 - 1850
Size E	1890	1850 - 2000

Maxi Drag Box	4.0m x 2.0m	4.0m x 1.0m	5.0m x 2.0m	5.0 x 1.0m
Panel Length (mm)	4000	4000	5000	5000
Panel Height (mm)	2000	1000	2000	1000
Panel Thickness (mm)	100	100	100	100
Minimum External Trench Width (mm)	750	750	750	750
Maximum Internal Trench width (mm)	2000	2000	2000	2000
Maximum Clearance Between Struts (mm)	3870	3870	4830	4830
Max Clearance Below Bottom Strut (mm)	1200	-	1200	-
Weight (kg)	1960	1060	2400	1290
Standard Working Load	20kN/m^2	20kN/m^2	20kN/m^2	20kN/m^2

Backhoe Manhole Boxes

Backhoe Manhole Boxes are lightweight boxes, complete with integral end return panels providing additional support making them ideal for installing pre-cast manhole rings. Suitable for excavation depths up to 2.96m Simple pinned strut arrangement. A range of strut lengths is available for non-square configurations. End closure panels available to support the open ends of the box. Trench Guard Edge Protection Panels available & Four way handling point to aid safe assembly.

2m Backhoe Manhole Box

	Base Unit	Top Unit
Length (mm)	2000	2000
Height (mm)	2000	960
Min Width External (mm)	1690	1690
Max Width External (mm)	3690	3690
Min Width Internal (mm)	1570	1570
Max Width Internal (mm)	3570	3570
Thickness (mm)	60	60
Max Clearance Between Struts (mm)	1600	1600
Max Clearance Under Lower Strut (mm)	980	-
Permissible SWL (kN/m²)	38.00	38.00
Weight (kg)	1186	711
Max Depth (mm)	2960	-

2.5m Backhoe Manhole Box

	Base Unit	Top Unit
Length (mm)	2500	2500
Height (mm)	2000	960
Min Width External (mm)	1690	1690
Max Width External (mm)	3690	3690
Min Width Internal (mm)	1570	1570
Max Width Internal (mm)	3570	3570
Thickness (mm)	60	60
Max Clearance Between Struts (mm)	2100	2100
Max Clearance Under Lower Strut (mm)	980	-
Permissible SWL (kN/m²)	30.40	30.40
Weight (kg)	1326	769
Max Depth (mm)	2960	-

Backhoe Manhole Boxes

3m Backhoe Manhole Box

	Base Unit	Top Unit
Length (mm)	3000	3000
Height (mm)	2000	1000
Min Width External (mm)	1690	1690
Max Width External (mm)	3690	3690
Min Width Internal (mm)	1570	1570
Max Width Internal (mm)	3570	3570
Thickness (mm)	60	60
Max Clearance Between Struts (mm)	2630	2630
Max Clearance Under Lower Strut (mm)	980	-
Permissible SWL (kN/m²)	32	32
Weight (kg)	1190	680
Max Depth (mm)	3000	-

Backhoe Manhole Boxes

Backhoe Manhole Box

The Backhoe Manhole Box is a four-sided excavation box which provides a safe working area below ground. The Backhoe Manhole Box can sustain earth pressures of 20kN/m^2. Users should check that the excavation will impose no greater pressures than this.

Installation is easy through the 'Dig and Push' method. This ensures that the side walls of the excavation are supported and minimises the likelihood of an accident. Three panel lengths are available 2000mm, 2500mm or 3000mm. A Top Box can be used to increase depth to a maximum of 3000mm.

- Provides safe working area below ground
- Easily Assembled
- Dig and Push method
- Pin and Clip System
- SWL 20kN/m^2
- Base unit weight 808kg and 975kg
- 2000mm, 2500mm or 3000mm panel lengths
- 1200mm clearance between lower strut
- Panel Thickness 60mm
- Closing panels available
- Additional equipment available

Backhoe Manhole Box	2m		2.5m		3m	
	Base	Top	Base	Top	Base	Top
Panel Length (mm)	2000	2000	2500	2500	3000	3000
Panel Height (mm)	-	-	-	1000	2000	1000
Panel Thickness (mm)	60	60	60	60	60	60
Weight (kg)	808	507	875	460	975	508
Distance Between Struts (mm)	1840	1840	2340	2340	2840	2840
Clearance Below Strut (mm)	1200	-	1200	-	1200	-
To Suit Ring Size (mm)	1050/1200		1050 / 1200 / 1350		1350 / 1500 / 1800	
Standard Working Load	20kN/m^2	20kN/m^2	20kN/m^2	20kN/m^2	20kN/m^2	20kN/m^2

BV100 Manhole Boxes

A four-sided mechanical excavation support Manhole Box, ideal for installing pre-cast concrete manholes and small chambers or tanks where ground movement is non-critical. Can be used to form part of a continuous trench system in excavations up to 5.3m deep and 4.7m wide.

- Designed to be installed by excavator using either the dig and push or excavate and place technique
- Bottom cutting edge for ease of installation
- Top panels available to increase excavation depth

If you are unsure about the depth or SWL, we recommend that you speak to us about our design service. Call all our excavation safety experts on 0800 779 7113 or email groundworks.enquiries@altradgeneration.com to discuss your project requirements.

Manhole Braces are a good alternative if SWL are expected to be exceeded and/or if cross services are an issue on-site.

ALWAYS enquire about design service if unsure.

Manhole Boxes are similar to Trench Boxes in their basic function, however they incorporate integral end return panels thus providing additional ground support, making them ideal for installing pre-cast manhole rings in trench runs as an alternative to using sheets and frames. There are six sizes of Manhole Box available to cater for common sizes of pre-cast manhole rings. Each box can be assembled and installed quickly and without the need for an operative to enter the unsupported excavation. Manhole Boxes can be used in most ground conditions to support trenches with depths of up to 5.3m by utilising the base module with two box tops and a variety of different strut types. Trench Guard Edge Protection system is available for this product. Four-way handling points to aid safe assembly.

BV100 Manhole Boxes

BV100 Manhole Box 2.5m

	Base Unit	Top Unit
Length (mm)	2500	2500
Height (mm)	2360	1470
Min Width External (mm)	1900	1900
Max Width External (mm)	4900	4900
Min Width Internal (mm)	1700	1700
Max Width Internal (mm)	4700	4700
Thickness (mm)	100	100
Max Clearance Between Struts (mm)	2080	2080
Max Clearance Under Lower Strut (mm)	1540	-
Permissible SWL (kN/m²)	55-70	55-70
Weight (kg)	2026	1449
Max Depth (mm)	5300	-

BV100 Manhole Box 3.0m

Length (mm)	3000	3000
Height (mm)	2360	1470
Min Width External (mm)	1900	1900
Max Width External (mm)	4900	4900
Min Width Internal (mm)	1700	1700
Max Width Internal (mm)	4700	4700
Thickness (mm)	100	100
Max Clearance Between Struts (mm)	2580	2580
Max Clearance Under Lower Strut (mm)	1540	-
Permissible SWL (kN/m²)	46-40	46-40
Weight (kg)	2226	1589
Max Depth (mm)	5300	-

BV100 Manhole Box 3.5m

Length (mm)	3500	3500
Height (mm)	2360	1470
Min Width External (mm)	1900	1900
Max Width External (mm)	4900	4900
Min Width Internal (mm)	1700	1700
Max Width Internal (mm)	4700	4700
Thickness (mm)	100	100
Max Clearance Between Struts (mm)	3050	3080
Max Clearance Under Lower Strut (mm)	1540	-
Permissible SWL (kN/m²)	39-70	39-70
Weight (kg)	2426	1729
Max Depth (mm)	5300	-

BV100 Manhole Boxes

BV100 Manhole Box 4.0m

	Base Unit	Top Unit
Length (mm)	4000	4000
Height (mm)	2360	1470
Min Width External (mm)	1900	1900
Max Width External (mm)	4900	4900
Min Width Internal (mm)	1700	1700
Max Width Internal (mm)	4700	4700
Thickness (mm)	100	100
Max Clearance Between Struts (mm)	4080	4080
Max Clearance Under Lower Strut (mm)	1540	-
Permissible SWL (kN/m²)	31-85	31-85
Weight (kg)	2616	1869
Max Depth (mm)	5300	-

BV100 Manhole Box 4.5m

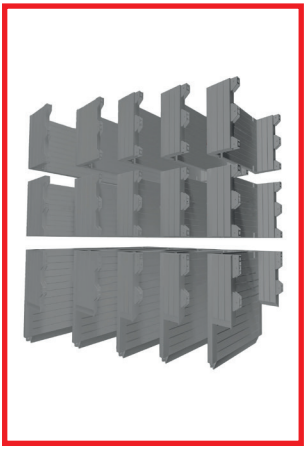
Length (mm)	4500	4500
Height (mm)	2360	1470
Min Width External (mm)	1900	1900
Max Width External (mm)	4900	4900
Min Width Internal (mm)	1700	1700
Max Width Internal (mm)	4700	4700
Thickness (mm)	100	100
Max Clearance Between Struts (mm)	3580	3580
Max Clearance Under Lower Strut (mm)	1540	-
Permissible SWL (kN/m²)	30-60	30-60
Weight (kg)	3326	2329
Max Depth (mm)	5300	-

BV100 Manhole Box 5.0m

Length (mm)	5000	5000
Height (mm)	2360	1470
Min Width External (mm)	1900	1900
Max Width External (mm)	4900	4900
Min Width Internal (mm)	1700	1700
Max Width Internal (mm)	4700	4700
Thickness (mm)	100	100
Max Clearance Between Struts (mm)	4580	4580
Max Clearance Under Lower Strut (mm)	1540	-
Permissible SWL (kN/m²)	24-50	24-50
Weight (kg)	3576	2509
Max Depth (mm)	5300	-

Manhole Boxes

Manhole Box



The Manhole Box is a four-sided excavation protection system, which is used whilst installing pre-cast manholes, chambers or tanks. The Manhole Box can be used in conjunction with trench boxes.

The Manhole Box is quick and easy to install and can be used in trenches up to 5500mm deep. Four different sized panels are available to suit a wide range of needs, these sizes also suit all pre-cast manhole rings. Two additional Top Boxes can be used with the Manhole Base Box to increase the depth to 5500mm.

- Four Sided
- Dig & Push Method Used
- Additional Extension Boxes
- Used In Excavations Up To 5500m In Depth
- Four Different Sizes Available
- Closing Panels Available
- Edge Safe Systems Available
- Ladder Access System Available

Manhole Box	2.5mm		3.0m		3.5mm		4.0m		4.7m	
	Base	Top	Base	Top	Base	Top	Base	Top	Base	Top
Panel Length (mm)	2500	2500	3000	3000	3500	3500	4000	4000	4700	4700
Panel Height (mm)	2500	1500	2500	1500	2500	1500	2500	1500	2500	1500
Panel Thickness (mm)	100	100	100	100	100	100	100	100	100	100
Weight (kg)	2402	1374	2608	1670	2800	1800	3570	2370	4850	2910
Distance Between Struts (mm)	2220	2220	2720	2720	3220	3220	3780	3780	4490	4490
Strut Height Clearance (mm)	1500	-	1500	-	1500	-	1500	-	1500	-
To Suit Ring Size (mm)	1050/1200/1350		1350/1500/1800		1800/2100		2100/2400/2700		3000	
Standard Working Load	40kN/m^2		40kN/m^2		40kN/m^2		40kN/m^2		35kN/m^2	

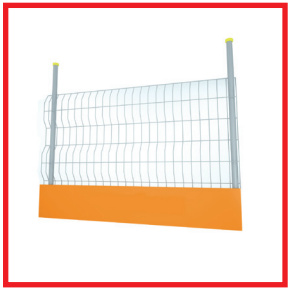
Trench Box Safety Ancillaries

End Panels

End panels are used in conjunction with Altrad Generation Trench, Manhole and Drag Boxes to safely seal off the open ends of an excavation and provide a completely enclosed working environment.

Code	Product/Dimensions	SWL (Kn/M²)	Weight
084793	2500mm x 2500mm	36.4	650kg
084794	1800mm x 1200mm	36.4	179kg
084795	2400mm x 1200mm	36.4	242kg
084796	2400mm x 1800mm	36.4	329kg
084797	3000mm x 2000mm	36.4	452kg
084802	End Panel Connector	-	-
084803	End Panel Connector Pin	-	-

Trench Guard Edge Protection



Trench Guard Edge Protection has been designed to protect work personnel from open excavations and falling debris. Trenchguard conforms to the latest temporary Edge Protection legislation BS EN 13374:2013 and is certified for Fall Protection Worldwide. Trenchguard has a built-in toe board to prevent debris from falling onto operatives working below. Fits all types of excavation equipment. Lightweight for ease of use by site operatives and quick installation when used in conjunction with post and clamps.

Code	Product	SWL (Kn/M²)	Weight
084909	Trench Guard Panel	2245mm x 1150mm	15.00kg
084910	Trench Guard Panel	2700mm x 1150mm	18.00kg
084911	Trench Guard Panel	1800mm x 1150mm	12.00kg
084912	Corner Panel	775mm x 775mm	10.00kg
084914	Telescopic Box Clamp	-	5.00kg
084913	Telescopic Sheet Clamp	-	4.00kg

Trench Box Safety Ancillaries

Ladder Safe

Manufactured from mild steel with a powder coated finish. Specially designed for use on all types of Box and sheeted excavations. Cantilevered platform enables safe side-entry onto ladder. Standard pole ladder fits directly onto the unit and is locked in place with two ladder clamps. Adjustable clamps fit directly onto a Trench Box or sheets (two sheet clamps and two box clamps supplied with platform). Adjustable front legs for ease of levelling. Collapsible sides and gate for ease of storage.

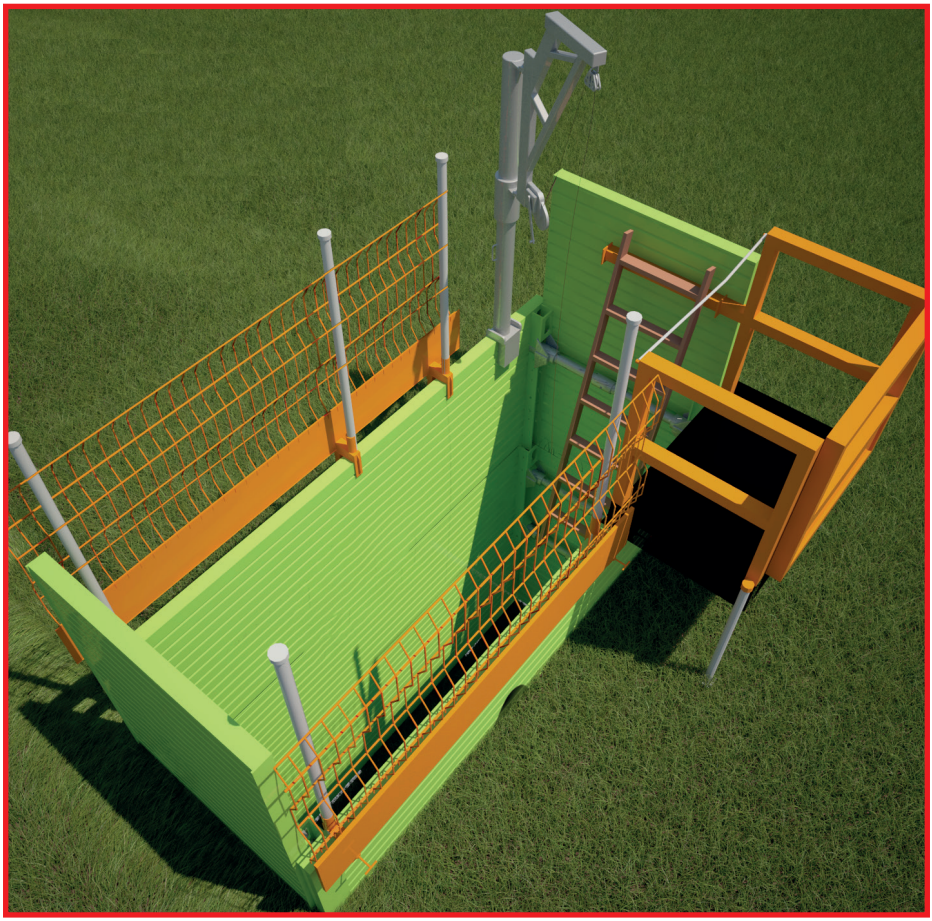
Code	Product	SWL (kN/m²)	Weight
084917	Mini Ladder Safe Platform	72	650.00kg
084918	Collapsible Ladder Safe Platform	98	179.00kg

Trench Box Safety Ancillaries

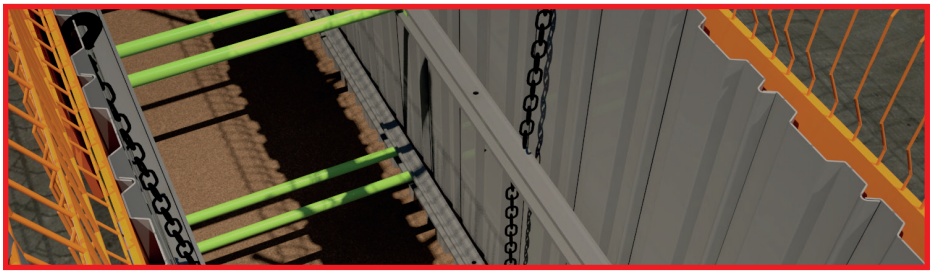
Davit Arm

Altrad Generation Davit Arms' unique four piece construction allows single operative installation and ease of use on site. Allowing its manual rescue winch to easily lift upto 140kg from all types of Box and sheeted excavations.

Code	Product	SWL (kN/m²)	Weight
089408	Davit Arm	140	75.00kg



Alloy Waler Rails



Alloy Waler Rails are used as an alternative to Trench Boxes where cross services are an issue. They are mainly used in city center and highway excavations where ground movement must be kept to a minimum. They offer a two-sided hydraulic support system used in conjunction with Altrad Generation Trench Sheets to allow a clear working area for the inspection/laying of utilities.

Waler Cylinder	Min Length	Max Length	Swl (Kn)	Weight
Type A	505mm	805mm	80	12.00kg
Type B	705mm	1205mm	80	15.00kg
Type C	1105mm	1605mm	80	22.00kg
Type D	1505mm	2005mm	80	28.00kg
1m Waler Cylinder Extensions to achieve 3m width			80	18.00kg

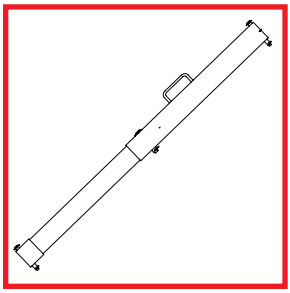
Rail Size	Width	Swl (Kn/M)	Cylinders Required	Weight
2000mm	100mm	22.91	2	22.00kg
2500mm	100mm	22.91	2	27.50kg
3000mm	100mm	22.91	2	33.00kg
4000mm	100mm	22.91	2	44.00kg
5000mm	100mm	22.91	3	55.00kg

Waler Cylinder	Min Length	Max Length	Swl (Kn)	Weight
Type A	530mm	820mm	80	10.00kg
Type B	780mm	1310mm	80	16.00kg
Type C	1260mm	2010mm	80	23.00kg
1m Waler Cylinder Extensions to achieve 2.75m width			80	18.00kg

Rail Size	Width	SWL (kN/m)	Cylinders Required	Weight
2000mm	180mm	58	2	21.00kg
2500mm	180mm	24	2	26.00kg
3000mm	180mm	16	2	31.00kg
4000mm	180mm	8.2	2	41.00kg
5000mm	180mm	4.9	3	52.00kg

Alloy Waler Rails

Waler End Bearers



Our Aluminium Waler End Bearer system has been developed to be used with a wide range of Aluminium Waler Rails to provide lightweight support to non-battered ends of trenches. To be used in conjunction with Trench Sheets/existing Waler systems, this product offers a safe and efficient replacement to less suitable methods, such as timber or road plates, by retaining backfill, preventing accidental dislodgement of loose material and also a barrier to prevent unauthorised access to the excavation.

Min Length	Max Length	Weight
530mm	820mm	13.50kg
780mm	1310mm	20.00kg
1260mm	2010mm	30.00kg

GeoBrace

GeoBrace is used with trench sheets or sheet piles to support small to large excavations and for the construction of manholes, chambers, tank installations and basements.

Versatile

- GeoBrace is available in 3 sizes – 254, 390 and 550 allowing for different lengths to be achieved.

Enhanced Performance

- There is no loss of allowable bending moment at the joints between extensions and the hydraulic ram unit minimising the deflection on the beam.

Innovative Design

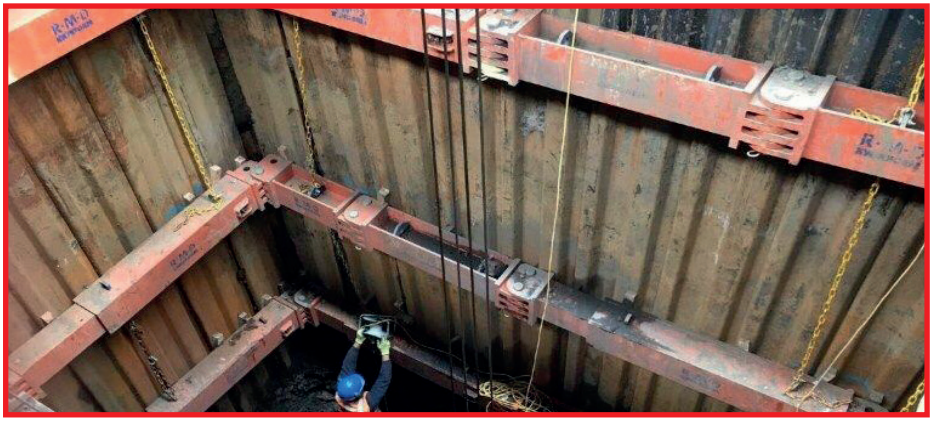
- Thanks to GeoBrace's unique and innovative design, it has the slimmest section on the market at the joints. This means the width of the excavation can be minimised.

Compatible

- All 3 lengths of GeoBrace are interchangeable even allowing connection to our smaller Double Acting Manhole Brace range with the use of an adapter enabling different sizes of brace to meet at the corners of rectangular excavations.

European Standard Compliance

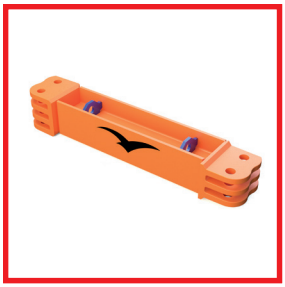
- The GeoBrace is fully European Standard compliant, designed and manufactured in accordance with latest standards EN14653, EN1090 and carry the quality CE mark.



Applications

GeoBrace frames are extremely quick to install and remove and can be used in practically any shape of excavation.

- Trenches
- Manholes
- Cofferdams
- Chambers
- Basements
- Tanks

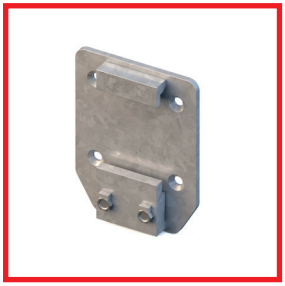


GeoBrace 254 Extensions

Code	Description	Size	Weight
GB5405	254 Extension	500mm	209kg
GB5410	254 Extension	1000mm	262kg
GB5415	254 Extension	1500mm	322kg
GB5420	254 Extension	2000mm	376kg
GB5430	254 Extension	3000mm	489kg
GB5440	254 Extension	4000mm	602kg
GB5460	254 Extension	6000mm	829kg

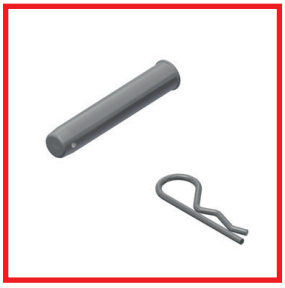
GeoBrace 254 Ram Unit

Code	Description	Size	Weight
GB5400	254 Ram Unit - 400kN	-	798kg



GeoBrace 254 Megashor Connector

Code	Description	Size	Weight
GB5403	254 Megashor Connector	-	20.40kg

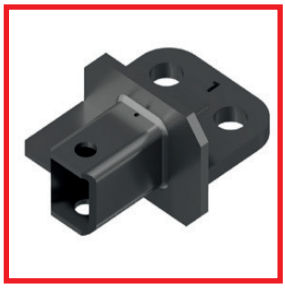


GeoBrace 254 Pin & R-Clip

Code	Description	Size	Weight
GB5401	254 Pin	59mm x 335mm	7.10kg
GB5401	254 R-Clip	8mm	0.14kg

GeoBrace 254 Inclined Prop Connector

Code	Description	Size	Weight
GB5404	Inclined Prop Connector	490 x 300 mm	37.8kg

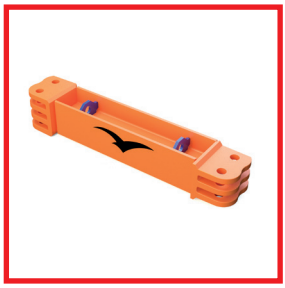


GeoBrace 254 DAMB Adapter 1

Code	Description	Size	Weight
GB5491	DAMB Adabapter 1	-	30kg

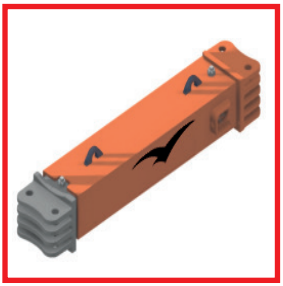
GeoBrace 254 DAMB Adapter 2

Code	Description	Size	Weight
GB5492	DAMB Adabapter 2	-	36.1kg



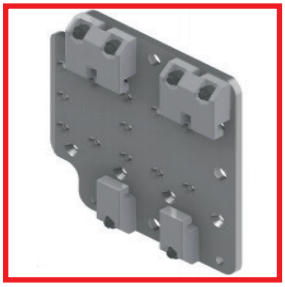
GeoBrace 390 Extensions

Code	Description	Size	Weight
GB3909	390 Extension	900mm	473kg
GB3913	390 Extension	1350mm	574kg
GB3927	390 Extension	2700mm	893kg
GB3954	390 Extension	5400mm	1514kg
GB3918	390 Extension	10800mm	2774kg



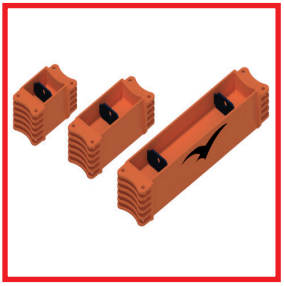
GeoBrace 390 Ram Unit

Code	Description	Size	Weight
GB3900	390 Ram Unit - 720kN	-	1479kg



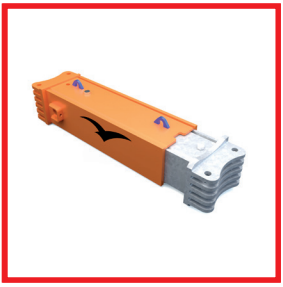
GeoBrace 390 Straight Prop Connector

Code	Description	Size	Weight
GB3904	390 Straight Prop Connector	600mm x 640 mm	76.9kg



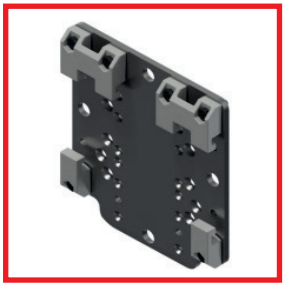
GeoBrace 550 Extensions

Code	Description	Size	Weight
GB5009	550 Extension	900mm	782kg
GB5013	550 Extension	1350mm	938kg
GB5027	550 Extension	2700mm	1446kg
GB5054	550 Extension	5400mm	2422kg
GB5108	550 Extension	10800mm	4415kg



GeoBrace 550 Ram Unit

Code	Description	Size	Weight
GB5000	550 Ram Unit - 1250kN	-	2631kg

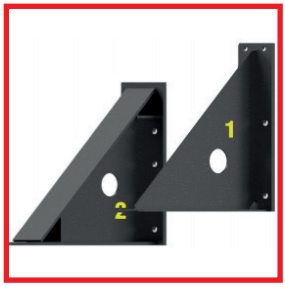


GeoBrace 550 Straight Prop Connector

Code	Description	Size	Weight
GB5003	550 Straight Prop Connector	780mm x 880mm	163kg

GeoBrace 550 Corner Infill Plate

Code	Description	Size	Weight
GB5005	550 Corner Infill Plate	490mm x 375mm	17.4kg



GeoBrace 550 Support/Uplift Brackets

Code	Description	Size	Weight
GB5301	550 Support/Uplift Bracket 1	-	46.5kg
GB5302	550 Support/Uplift Bracket 2	-	74.4kg
GB5303	550 Uplift Bracket 3	-	136kg

Tubeshor

Tubeshor Hybrid Hydraulic Tubular Shoring System can be used for anything from propping Waling Beams in excavation support applications to capping beams of large excavations. Tubeshor is also suitable for use in vertical applications such as bridge bearing replacement. An integral hydraulic ram unit is rated for an AWL of 2500kN rising to 4500kN once the unique mechanical lock off collar is engaged.

Applications

- Basement Propping
- Vertical Propping
- Cofferdams
- Deep Excavations
- Ultra Heavy Duty Horizontal Shoring
- Bridge Bearing Replacement
- Offshore Platform Assembly
- Ship Building

Advantages

Five Diameters

Available in five diameters – 320, 460, 610, 1060 & 1370 which can all be simply bolted together using accessories to create required lengths. This provides flexibility to cope with horizontal propping lengths up to 70m with fewest possible joints.

Enhanced Performance

The inner section of the ram unit extends by up to 800mm and is threaded to enable mechanical lock-off using a robust screwed collar which increases the allowable working load of the ram unit to 4500kN. For higher loads, flat jacks enable working loads up to 16,000kN.

Robust Construction

Heavy duty construction using grade S460 steel, designed to reduce weight, minimise thermal loading, and be less prone to damage.

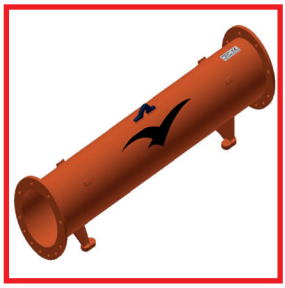
European Standard Compliance

Tubeshor is fully European Standard compliant, designed and manufactured in accordance with latest standards EN14653, EN1090 and carries the dual CE and UKCA marking.

Unrivaled Capability

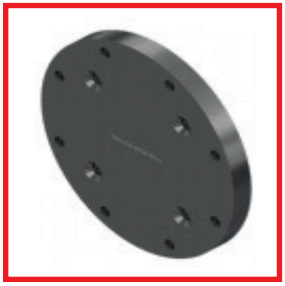
Unrivalled axial load capacity and market leading high axial stiffness due to its ability to isolate and lock off the hydraulic element of the prop. Tubeshor will accommodate the rigors of ultra heavy duty propping, cofferdams & bridge bearing replacement applications.

Tubeshor



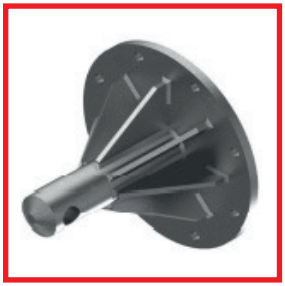
Tubeshor 320 Extensions

Code	Description	Size	Weight
TG3009	320 Extension	900mm	84.9kg
TG3018	320 Extension	1800mm	141kg
TG3027	320 Extension	2700mm	198kg



Tubeshor 320 Blanking Plate

Code	Description	Size	Weight
TG3100	320 Blanking Plate	40mm	43.0kg



Tubeshor 320 Prop End

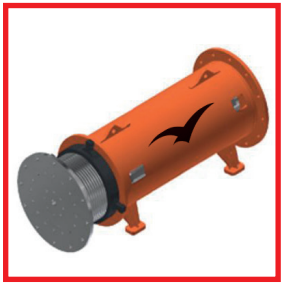
Code	Description	Size	Weight
TG3102	320 Prop End	-	46.7kg

Tubeshor 320 Telescopic Jack

Code	Description	Size	Weight
TG3101	320 Telescopic Jack	-	376.2kg

Tubeshor 460 Extensions

Code	Description	Size	Weight
TG0404	460 Extension	450mm	114kg
TG0436	460 Extension	3600mm	585kg
TG0472	460 Extension	7200mm	1080kg
TG6120	Allow Bow Shackle	1.25"	4.43kg



Tubeshor 460 Ramlock Unit

Code	Description	Size	Weight
TG0421	460 Ramlock Unit	-	1390kg

Tubeshor 460 Spherical Bearer

Code	Description	Size	Weight
TG0420	460 Spherical Bearer	-	146kg

Tubeshor 610 Extensions

Code	Description	Size	Weight
TG6005	610 Extension	500mm	201kg
TG6010	610 Extension	1000mm	324kg
TG6020	610 Extension	2000mm	530kg
TG6030	610 Extension	3000mm	721kg
TG6040	610 Extension	4000mm	910kg
TG6070	610 Extension	7000mm	1480kg

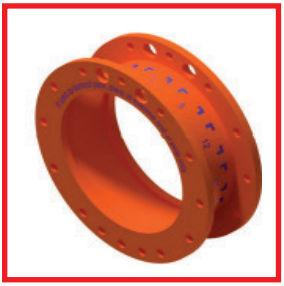
Tubeshor

Tubeshor 610 Ram Lock Unit

Code	Description	Size	Weight
TG6201	610 Ram Lock Unit	1675mm x 2475mm	2420kg

Tubeshor 610 Spherical Bearer

Code	Description	Size	Weight
TG6206	Spherical Bearer	-	358kg

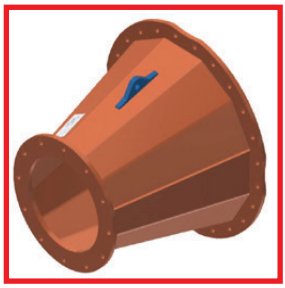


Tubeshor 610 Burnout Pack

Code	Description	Size	Weight
TG6207	Burnout Pack	250mm	148kg

Tubeshor 610 Plain Swivel Unit Assembly

Code	Description	Size	Weight
TG6202	610 Swivel Plate Male	-	243kg
TG6202	610 Swivel Plate Female	-	291kg
TG6202	610 Swivel Unit Plain Pin	-	19.3kg



Tubeshor 1060 - 610 Adapter Cone

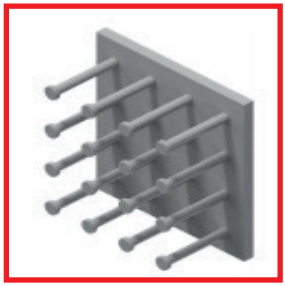
Code	Description	Size	Weight
TG0000	1060-610 Adaptor Cone	1000mm	436kg

Tubeshor 1060 Extensions

Code	Description	Size	Weight
TG0144	1060 Extension	1.44m	801kg
TG0288	1060 Extension	2.88m	1370kg
TG0576	1060 Extension	5.76m	2480kg
TG1152	1060 Extension	11.52m	4700kg

Tubeshor 1060 Precamber Shim Set

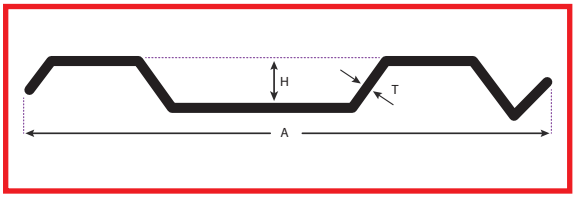
Code	Description	Size	Weight
TG0001	1060 Precamber Shim Set	-	102kg



Tubeshor 610 Cast-in Plate

Code	Description	Size	Weight
TG6318	610 Cast in Plate (32 Studs)	920 x 490 x 30mm	126kg

Trench Sheeting - Available Nationwide



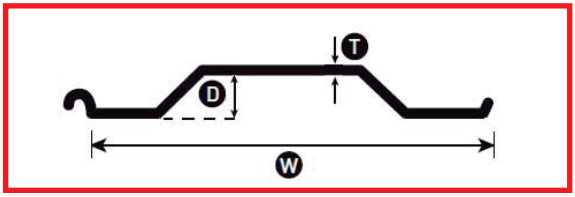
Standard Overlapping

Code - 115

Overlapping profile in mild steel, available in lengths from 2m to 5m.

A (mm)	Effective Width Per Sheet	H (mm)	T (mm)	Kg/m	Kg/m²
350	330	35	3.4	10.86	32.91

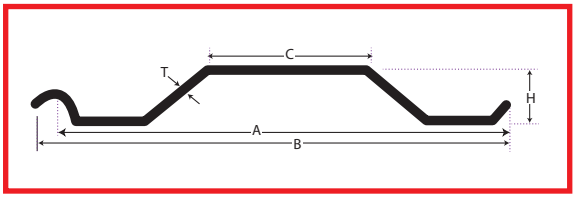
Section Modulus Per Sheet	Section Movement Knm/m	Available Lengths
15.93	7.75	2000mm - 5000mm



KD 4 Sheet Overlapping

Steel Grade	Width (mm)	Depth (mm)
S 275 JR	400	50

Thickness (mm)	Weight (kg/m)	Section Modulous Z (cm³/m²)
6.0	21.90	40.34



BD500 Overlapping

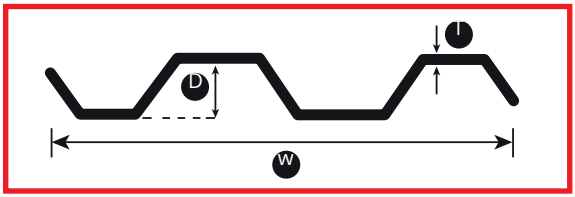
Code - 245

Overlapping profile in high yield steel, available in lengths from 3m to 7m.

A (mm)	B (mm)	C (mm)	H (mm)	T (mm)	kg/m	kg/m²
508	552.9	220	50	6	27.74	54.61

Section Modulus Per Sheet	Section Modulus cm³ Per Metre	Bending Movement Knm/m	Available Lengths
51.25	100	36.41	3000mm - 7000mm

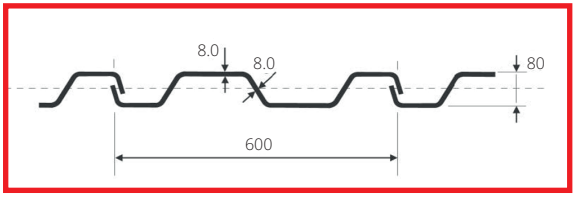
Trench Sheeting - Available Nationwide



KKD 600 Sheet Overlapping

Steel Grade	Width (mm)	Depth (mm)
S 275 JR	600	80

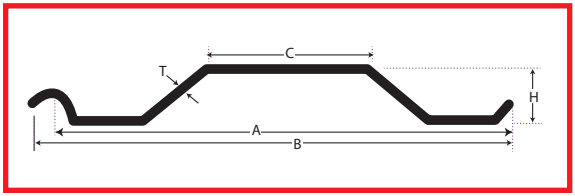
Thickness (mm)	Weight (kg/m)	Section Modulous Z (cm^3/m^2)
6.0	37.40	179.0



KD6-8 Overlapping

Code - 260

Sectional Area (cm^2)	Mass Single Pile (kg/m)	Mass Per m Wall (kg/m^2)	Moment of Inertia (cm^4)	Elastic Section Modules (cm^3)	Radius of Gyration (cm)
64.44	50.00	83.33	968.00	242	3.00



HD2 Overlapping

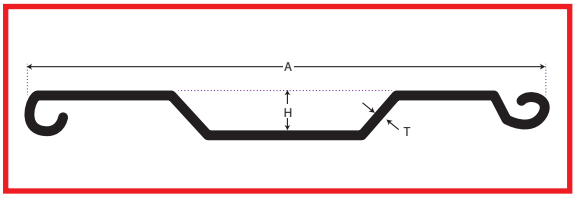
Code - 215

Overlapping profile in high yield steel, available in lengths from 3m to 8m.

A (mm)	B (mm)	C (mm)	H (mm)	T (mm)	kg/m	kg/m^2
742	764	267	90	8	54.17	73.01

Section Modulus Per Sheet	Section Modulus cm^3 Per Metre	Bending Movement Knm/m	Available Lengths
187.91	253.25	59	3000m - 8000m

Trench Sheeting - Available Nationwide



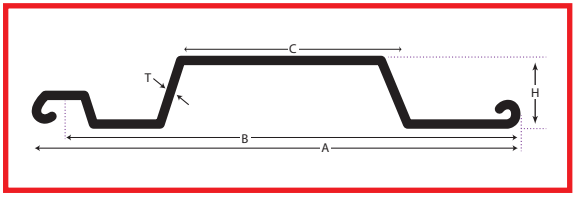
L8 Interlocking

Code - 120 (Sale Only)

Interlocking profile in mild steel, available in lengths from 1m to 5m.

A (mm)	Effective Width Per Sheet (Mm)	H (mm)	T (mm)	Kg/m	Kg/m²
460	432	35	3.4	14.52	33.61

Section Modulus Per Sheet	Bending Movement Knm/m	Available Lengths
22.23	8.22	1000mm - 5000mm



BVI500 Interlocking

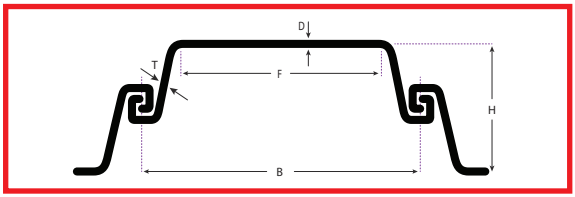
Code - 395

Overlapping profile in high yield steel, available in lengths from 3m to 8m.

A (mm)	B (mm)	C (mm)	H (mm)	T (mm)	kg/m	kg/m²
535.2	494	230.6	75	6	33.53	67.88

Section Modulus Per Sheet	Section Modulus cm³ Per Metre	Bending Movement Knm/m	Available Lengths
43.11	91.863	50.3	3000mm - 8000mm

Trench Sheeting - Available Nationwide



Available Nationwide

Larsen Range Interlocking

Altrad Generation Steel Sheet Piles are used for permanent and temporary works structures. The section of the pile interlocks producing a continuous wall with a succession of closely fitting joints. A range of corner and junction piles are available to suit all requirements.

Section	L601	L602	L603	L604	L605	L606	L607
B (mm)	600	600	600	600	600	600	600
H (mm)	310	310	320	390	420	420	435
D (mm)	7.5	8.2	9	9.5	10	16.5	21.5
T (mm)	6.4	8	9	9.5	10	9.2	9.8
F Flat Of Pan (mm)	253	250	384	382	367	348	380
Sectional Area (cm^2/m)	98.3	115.4	137.6	157.3	174.9	201.3	243
Kg/m	46.3	54.3	66.5	74.2	82.4	94.8	114.4
Kg/m^2	77.2	90.5	110.8	123.5	137.5	158	191
Combined Moment Of Intertia (cm^4/m)	11496	13075	20178	32599	42420	52,631	69600
Section Modulas (cm^3/m)	742	845	1261	1671	2020	2506	3200

Altrad Generation also supplies Piling Hammers, Pipe Lifters. Call all our excavation safety experts on **0800 779 7113** or email **groundworks.enquiries@altradgeneration.com** to discuss your project requirements.

Piling Hammers

Probst Pipe Lifters

Groundwork Ancillaries

Manhole Shutters

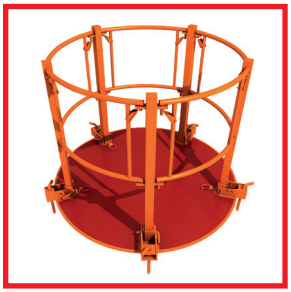
Modular Steel Shutters used to form concrete surround around Manhole Rings in situ. Combination of three panel sizes allows great flexibility on site to cover all Manhole Ring sizes ranging from 675mm to 3000mm diameter and available in two heights: 900mm and 1800mm.

Diameter of Manhole (mm)	Thickness (mm)	Number of Sections Required to Form Shutter			External Diameter of Concrete (mm)	Theoretical Thickness of Concrete (mm)	Volume of Concrete Surround (m^3)	
		A	B	C			900	1800
675	65	2	1	0	1171	182	0.51	1.02
900	75	2	2	0	1368	159	0.54	1.09
1050	85	3	0	1	1541	160	0.63	1.25
1200	100	3	1	1	1738	169	0.75	1.50
1350	112	3	2	0	1855	141	0.68	1.36
1350	112	3	2	1	1935	181	0.90	1.80
1500	115	4	0	1	2028	150	0.79	1.58
1500	115	4	0	2	2107	189	1.02	2.05
1800	115	4	2	0	2342	156	0.96	1.93
2100	120	5	1	0	2632	146	1.03	2.05
2100	120	5	1	1	2712	186	1.33	2.66
2400	135	6	0	1	3002	166	1.33	2.66
2700	162	6	2	0	3316	146	1.31	2.62
2700	162	6	2	1	3396	186	1.69	3.38
3000	210	7	1	1	3686	133	1.34	2.68
3000	210	7	2	0	3800	190	1.94	3.89

Height (mm)	Weight Of Sections (Kg)		
	A	B	C
900	27.5	12.5	6
1800	55	25	12

Code	Description
085204	Manhole Shutters - 18A
085205	Manhole Shutters - 18B
085206	Manhole Shutters - 18C
085291	Manhole Shutters - 900A
085292	Manhole Shutters - 900B
085293	Manhole Shutters - 900C

Groundwork Ancillaries



Manhole Safety Platform

Code	To Suit Manhole Ring Dia. (mm)	Weight
085207	1200	211kg
085208	1800	402kg
085209	2400	549kg

Driving Caps

Driving Caps are used with Altrad Generation Trench Sheets to minimise damage to the sheet during driving.

Code	Driving Caps	Weight
140001	Universal	8.00kg
140005	BD	20.00kg
140004	HD	25.00kg

Quick Release Pitching Shackle

Used to install Altrad Generation Trench Sheets, our quick release Pitching Shackle uses a spring loaded pin and release system to grip the Trench Sheet through the Trench Sheet's lifting hole. The Sheet can then be driven into position.

Code	Product	SWL (Tonnes)	Weight
083002	2t Quick Release	2	19.00kg
083003	3t Quick Release	3	23.00kg

Groundwork Ancillaries

Extraction Clamps

Used to extract Altrad Generation Trench Sheets, note that Extraction Clamps should never be used to pitch Trench Sheets.

Code	Product	SWL (Tonnes)	Weight
420007	Extraction Clamp	5	25.00kg
420008	HD Extraction Clamp	7.5	30.00kg

Four Leg, Hanging & Snatch Chains

The Four Leg Lifting Chain is used to safely lift all shoring equipment. Our wide range of lifting chains are all fully LOLER compliant and come supplied with all relevant certificates.

The Hanging Chain is used to hang hydraulic support from Trench Sheets.

The Snatch Chain is used to safely extract all shoring equipment. Snatch Chains are fully LOLER compliant and come supplied with all relevant certificates.

Code	Product	SWL (Tonnes)	Length (m)	Weight
083012	Four Leg Waler Chain	3.15	4	30.00kg
083006	Four Leg Lifting Chain	6.7	4	45.00kg
083007	Four Leg Lifting Chain	6.7	6	65.00kg
083015	Two Leg 13mm Lifting Chain	7.5	7	63.00kg
083011	Heavy Duty Hanging Chain	N/A	2	3.00kg
083013	Snatch Chain	8	1.5	18.00kg

Groundwork Ancillaries

Trench Safety Covers

Our range of Trench Safety Covers are ideal for protecting against falls when working on pavement excavations.

Code	Product	Thickness (mm)	Width (mm)	Length (mm)	Weight	Weight Tested (kg)
TREN81	Safe Cover 16/12	25	1600	1200	33.00kg	Up to 2000
TREN80	Safe Cover 12/8	30	1200	800	12.00kg	Up to 2000
-	Trench-Pro	30	1000	1100	15.00kg	Up to 2000

Elite TrenchCross™

The strongest, lightest and most versatile trench cover that provides the complete site solution.

- Detachable handrails
- East to lift
- Anti-slip
- Reflecting film
- Handles
- Can be fastened to the ground
- Anti-slip caps
- Full plastic frame

Code	Product	Width (mm)	Length (mm)	Weight	Maximum Load (kg)
081872	Elite TrenchCross™	100	170	20.00kg	1000

Ground Protection

Ground Guards

Ground-Guards provides temporary ground protection, traction and access over sand, mud, marshy areas whilst protecting your personnel, equipment, vehicles and turf.

It is a simple and very easy to use system. When locked in place Ground-Guards form temporary roadways and car parks for vehicles and trucks as well as solid surfaces for events, drilling, civil engineering and other industrial applications.

- Lightweight mats are easy to move around using the Handy-Hook and easy to lay by hand
- Quickly connect together using No-Tools joiners
- Life time guarantee against breakage by vehicles up to 120 tonnes (conditions apply)*
- Eliminate cost of continually replacing slippery splintered plywood boards
- Super tough 100% recycled poly-ethylene plastic 1/2" thick – flexible enough to conform to ground contours

Relocatable roadway gives rapid site access

A Ground-Guard trackway is the smart solution for your rapid site access requirements. It protects your ground and turf, minimises reinstatement costs, prevents vehicles getting bogged down, keeps your jobs on schedule, and keeps your workers SAFE!

Why get bogged down without Ground-Guards?

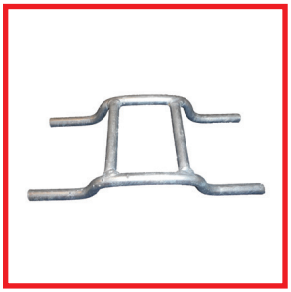
Weighing only 39kg, the panels can be installed by hand without a crane lorry, yet are so tough that they are guaranteed unbreakable by vehicles up to 120 tonnes making them ideal for manoeuvring heavy equipment around on site with minimal disturbance to the turf.

Code	Description	Core Thickness (mm)	Width (mm)	Length (mm)	Weight (kg)
GMAT01	Ground Guards	14	1217	2433	39

Loading Rating	Material	Traction
Unbreakable by vehicles up to 120 tonnes*	100% recycled HDPE. Resistant to acids, alkalis and solvents	Patented ribbed tread pattern provides extra traction and stiffness, without additional weight

*Ground-Guards are guaranteed when used by vehicles up to 120 tonnes. The guarantee does not extend to damage caused by lifting the Ground Guard by mechanical means or damage due to misuse. Note, it is the customer's responsibility to assess the load bearing capacity of the ground and determine what weight of vehicle it is capable of safely supporting. Traversing of steel tracked vehicles will damage the tread of the Ground Guard and may result in damage charges. To prevent damage, the Ground Guard should be laid pedestrian side up if steel tracked vehicles are to be traversed. Operation in straight lines is permitted.

Ground Protection



Desc.	Double Joiners
Wt.	0.74kg
Code	**GMAT02**

Desc.	Single Joiners
Wt.	0.26kg
Code	**GMAT03**

How to avoid damaged turf

Planning the use of Ground-Guards into your job before you start can save you from ruining your turf, and the extra safety that they provide could also save someone from having a serious accident.

Ground-Guards feature a patented diamond design giving the maximum traction in the wet and dry as well as reducing sideways movement and slippage. They have now become recognised as standard equipment for use on many sites. This is largely due to the fact that they are virtually indestructible.

The use of a geo-textile membrane is recommended where the ground guard will be used in very wet conditions, long term applications or where heavy vehicles will be used.

1 Load of Ground-Guards = 32 Loads of Stone!

A large arctic lorry can hold 500 Ground-Guards. Enough to make a 600m roadway.
To do that in stone, 3m wide and 250mm deep requires excavating and shifting 450m^3 of earth and bringing in approximately 32 x 25 tonne lorry loads of stone. Then reversing the whole process afterwards. 64 lorry journeys compared to 2 for Ground-Guards!

Ground Protection

Road Mats & Plates

- Easy to install ground protection for pedestrians, planes and vehicles up to 80 tonnes.
- Fast, temporary access, working areas and trackways.
- Unique non-slip reflective markings for night safety (optional).
- Unique 'Cats Eyes' reflectors for night safety (optional).
- Save time and money in reinstating ground.
- Made from 100% recycled High Density Polyethylene (HDPE) reduces landfill waste and cost.
- Avoid severe rutting eco damage to environmentally sensitive areas.

Products	Roadmat Light	Road Plate Oxford 15/5	Endura Mat Large	Endura Mat Small
Thickness (mm)	14	12	12	12
Width (mm)	1200	500	1220	1220
Length (mm)	2400	1500	2440	1220
Weight (kg)	35	32	32	16
Weight Tested (Tonnes)	Up To 60	Up To 40	Up To 80	Up To 80
Material	100% Recycled Hdpe	-	-	-
Traction	High Definition Chevron Traction System	-	-	-
Connectivity	Various Steel And Hdpe Connections Available	-	-	-

Ground Protection

Road Plates

Steel

- 3/4" Steel plate
- 4 Lifting holes per plate
- Available in sizes 8' x 4' and 6' x 4' with or without an anti-skid coated surface
- Anchor holes after coasted surfaces

Ground Protection

Trench Struts

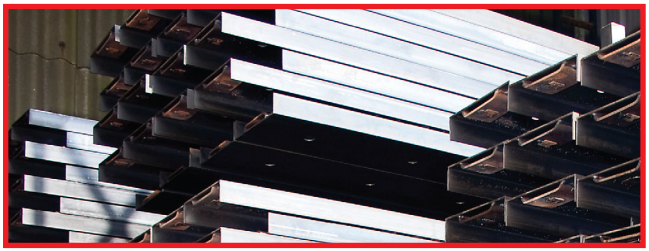
Available stock in four sizes, Altrad Generation's Trench Struts feature clawed base and head plates to enable a better grip to the trench lining and hold it tightly in place preventing collapse.

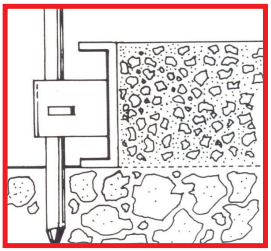
All struts are manufactured to BS4074:2004 and are thread rolled to ensure there is no cutting away of material or loss of strength.

- Safe Working Load (SWL) of 3 tonne at any length.
- Outer Tube: 60.3mm dia / Inner tube: 48.3mm dia.
- Base and Head Plate: 75mm x 75mm x 6mm
- Clawed c/w 2 nail holes.

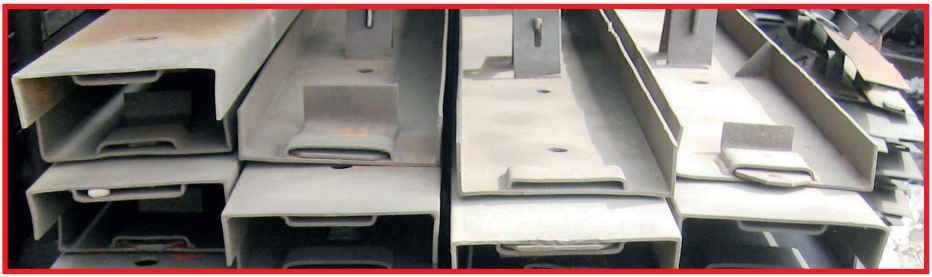
Code	Size	Height (mm)	Weight
TREN00	0	0.32m - 0.47m	4.99kg
TREN01	1	0.49m - 0.73m	6.58kg
TREN02	2	0.69m - 1.09m	8.62kg
TREN03	3	1.03m - 1.73m	8.62kg

Roadforms





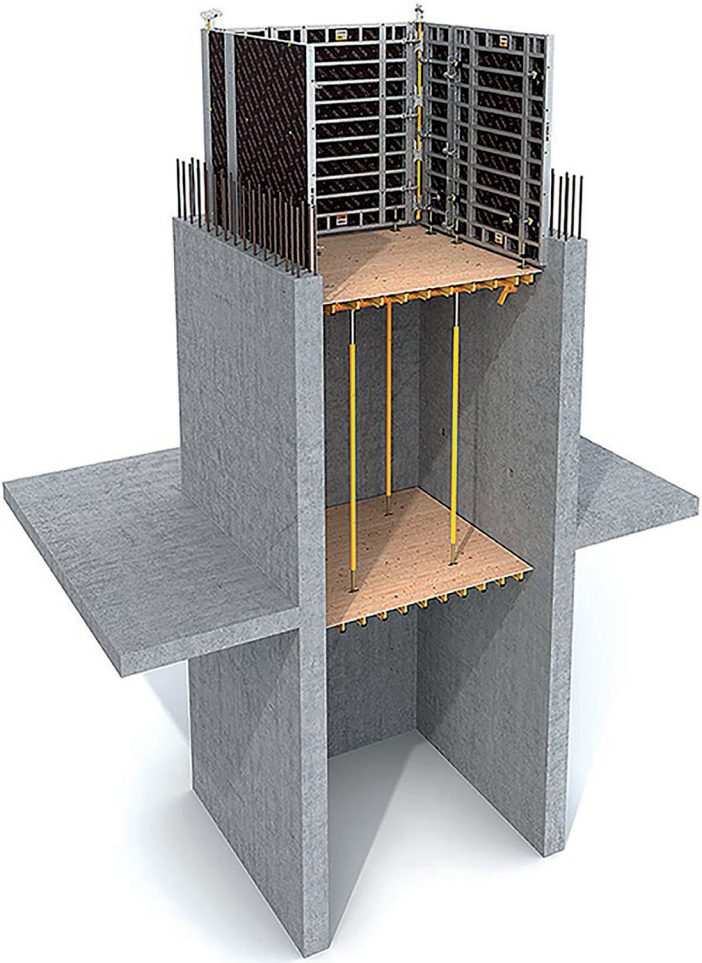
Roadforms provide a simple, robust, accurately aligned edge formwork for use when constructing ground slabs, roadways, pathways and foundations up to 300mm. Made of strong square section steel and using a series of ground stakes to secure in place. Roadforms create a smooth uniform finish to any poured concrete slab. Each Roadform is tongued to allow continuous runs.



Square Edged Roadforms are suitable for all types of edge formwork necessary for the construction of ground slabs, roadways, foundations and footings, etc. Three welded stake housings are incorporated together with a locking tongue for accurate alignment of adjacent forms.

Code	Product	Depth (mm)	Length (mm)	Weight
ROAD01	6" Standard Roadform	150	3000	25.80kg
ROAD05	8" Standard Roadform	200	3000	30.50kg
ROAD07	12" Standard Roadform	300	3000	50.00kg
ROAD02	600mm x 22mm Stake	-	-	2.00kg
201147	5 Litre Mould Oil	-	-	5.00kg

Notes



Formwork & Falsework

Wall & Column Formwork

Bridge Formwork

Props & Shoring

Climbing Formwork

Slab Formwork

Wall & Column Formwork

ORMA Panel Formwork

Designed **to withstand high concrete pressures (certified by GSV).**

Permissible Concrete Pressure:

Panel 3.3m: 80kN/m²

Panel 2.7m: 74kN/m²

Maximum Deflection:

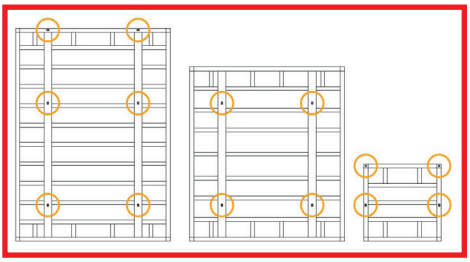
60kN/m² (Line 7, table 3 DIN 18202)

80kN/m² (Line 6, table 3 DIN 18202)

Range of Panels:

Panel Heights: 3.3m / 2.7m / 1.2m / 0.6m

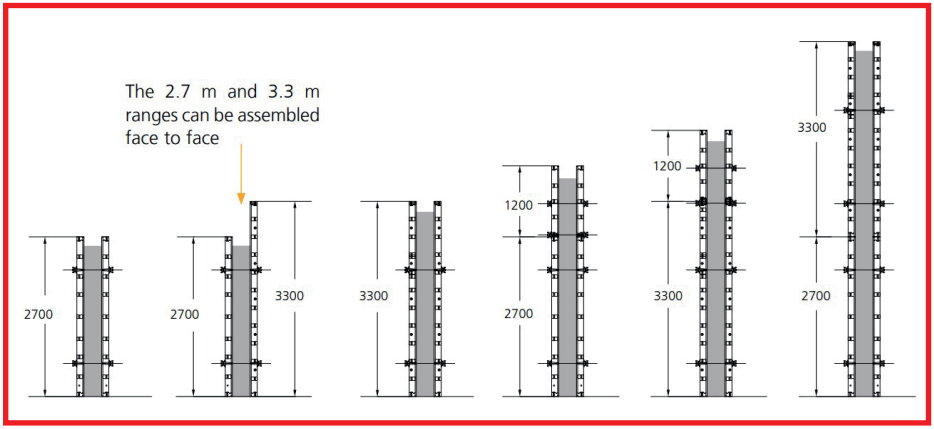
Panel Widths: 2.4m / 1.2m / 0.9m / 0.75m / 0.6m / 0.45m / 0.3m.



Concrete Pouring:

For a **concrete pouring height ≤ 3.3m**, 2 anchorages at heights are required.

For a **concrete pouring height ≥ 3.3m**, 3 anchorages at heights are required.



Wall & Column Formwork

TRIO

The focus of the universal TRIO wall formwork is on ensuring simple shuttering procedures and reduced shuttering times. Standard panels have only 6 different widths which allows easy handling and efficient logistics. With the BFD coupler for all connections as well as many other practical system solutions, TRIO has successfully proven itself in countless projects around the world.

TRIO is very versatile and efficient in its use – from residential construction and multi-storey structures through to applications in infrastructure projects. This ensures a high degree of utilisation and thus the cost-effectiveness of the system. Variants of the panel formwork, e.g. the aluminum version or for special surfaces, expands the range of applications.

The closed panel profiles of the TRIO provide high torsional stability. The excellent product quality guarantees a long service life. For all applications, TRIO fulfils the highest requirements regarding the evenness.

In addition, TRIO can be combined with the MAXIMO panel formwork system. Accessories, such as the BFD coupler or articulated corners, can be used on both systems.

GSV
geprüft
durch neutrales Prüfinstitut
Güteschutzverband
Betonschalungen

The standard TRIO panels are tested according to GSV guidelines.

Wall & Column Formwork

Maxima

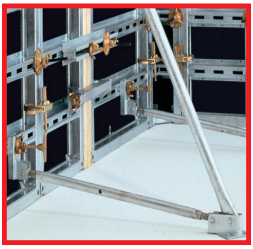
Maxima is a robust, versatile large-panel 80kN/m² wall formwork system, with column and stripping corner add-ons providing unrivalled flexibility. Its wide selection of standard panel sizes and easy-to-use clamping method combines simplicity and stability with significant reductions in costs, time and labour.

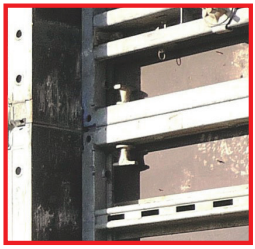
Applications:

- Walls
- Service cores
- Columns
- Basements
- Buttresses
- Culverts
- Circuar Walls (Faceted Finish)
- Foundations
- Abutments and piers

Advantages

- Supplied in 7 different widths and 3 different heights for unrivalled forming flexibility on site.
- 15mm or 20mm combination tie plates with captive wing nuts allows an 8 degree inclination of the form face.
- Integrated cast frame corners are fully welded at each corner position to the panel edge sections to facilitate the use of a crow bar for final adjustment.
- Provides protection to the 19.5mm thick Alkus composite sheet, set into the panel, riveted into position from the face side.
- All frames are hot dipped galvanised to ensure long life use of the panel without rusting.





Wall & Column Formwork

GT 24 Formwork Girder

The formwork girder as the main component of wall and slab formwork tends to determine whether your forms are cost effective. Rather than the initial loutlay, it is the service life and handling costs that are crucial.

PERI GT 24: Durability

High Load-bearing capacity

The GT 24 has been approved by the Deutsches Institut fur Bautechnik.

The struts penetrate the chords along the whole cross-section. There are practically no cavities which could trap water. The latticework design ensures that the GT 24 is well-ventilated when stacked.

Durability through the patented girder nodes with mini-dovetail jointing.

Wall & Column Formwork

VM 20 Beams

The design and the material used in the manufacture of the VM-20 Timber Beam guarantee a durable product, excellent as structural element for formwork.

The double T-section with a height of 200mm and a width of 80mm **resists strong impacts** due to protective plastic caps at the ends.

- There is a wide range of lengths available which allows of choosing the most appropriate in each case.
- Each beam is marked with the date of manufacture and length for traceability and identificaton.
- Certified Product that ensures quality.

Scope of application:

- Horizontal and Vertical Formwork
- Bridge and Tunnel Formwork
- Working Platforms.

Product Certifications:

- **Certified in accordance with European standard EN 13377** for prefabricated wooden beams for formwork.
- **PEFC:** Chain of custody

Wall & Column Formwork

SB Brace Frame

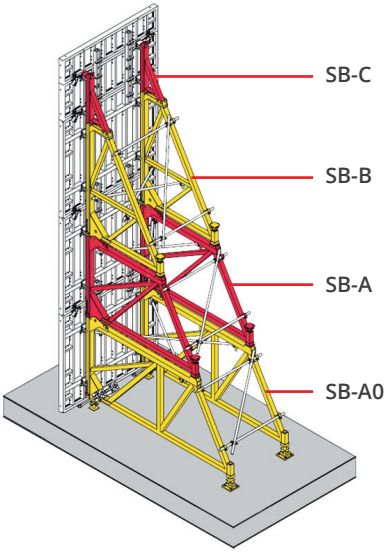
PERI Brace Frame SB for single-sided walls up to 8.75 m high

During single-sided concreting, the concrete pressure is transferred into the sub-structure by means of the SB Brace Frame.

The PERI brace frame modular system has been designed for concreting heights up to 8.75 m and a fresh concrete pressure up to a maximum of 60 kN/m².

The SB brace frames can be combined with all PERI wall formwork systems. All units can be quickly connected without any additional components. The required connecting parts are already mounted to each brace frame. All individual components are sized to conform with truck or container dimensions.

SB-B and SB-C brace frame units with PERI TRIO panel formwork, concreting height 3.50m.



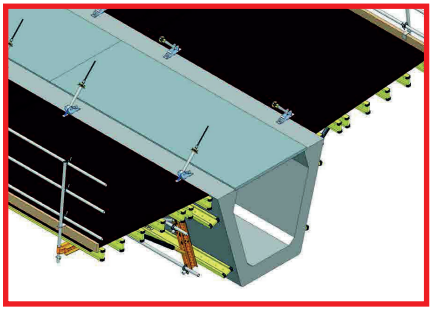
Concerting heights up to 8.75m using SB-A0, A, B and C brace frames.

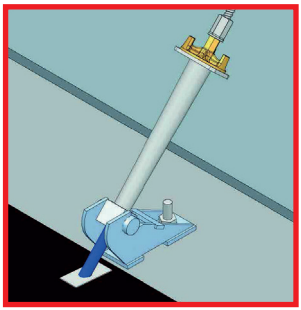
Bridge Formwork

HC Bracket for Bridges

Modular formwork used to concrete the wings of steel composite bridges, pre-cast concrete bridges or previously cast in situ bridges.

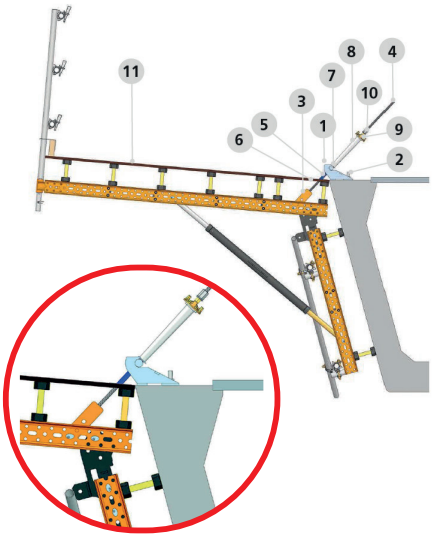
The system hangs from a number of tie rods, fixed onto a base placed on the precast beam or steel girder. Generally, this base is "lost" in the concrete, although if the project so requires, a solution may be considered to allow for its recovery.





One of the main features of the system is its safety. It allows for formwork to be assembled and dismantled from above, without the need for workers to access from below to perform any operation.

The system is formed of modular formwork and a number of auxiliary components which allow for it to be fixed to the precast beam or steel girder of the bridge.



1. HC Anchor Base (Lost Component)
2. Anchorage (Lost Component)
3. Bulkhead Head
4. Tie Rod 15
5. Spacer Tube 22/25 (Lost Component)
6. Steel Plate (Lost Component)
7. Cone Swivel Support (Lost Component)
8. Cone HC
9. Plate Nut 15
10. Hexag. Nut 15
11. Formwork

Props & Shoring

ALUPROP

Advantages:

- Lightweight: made of aluminium
- Resistant: great load capacity
- Inner tube protected against disengagement of the outer tube.
- Simple and fast length regulation
- Dual height regulation: due to aluprop screw jack.
- Self-cleaning thread: eliminate concrete sticking on the inner tube
- Fastening click between outer tube and nut
- Simple prop stripping thanks to the drive nut with holes and wings.

Flexible:

- Braceable prop with bracing frames or bracing hooks or tubes.
- Possibility of putting prop on prop. Allows the building of high-rise formwork.
- Allows intermediate working platforms.
- Falsework can be assembled at the ground level, horizontally. Favours ergonomics and workers' safety.

Props & Shoring

Adjustable Steel Props

Manufactured to BS4074:1982 and tested to BS5507-3:1982, Altrad Generation's Adjustable Steel Props are designed to support a range of formwork and falsework applications, floors, ceilings, openings and temporary beams.

Outer tube: 60.3mm Dia / Inner tube of 48.3mm Diameter. Head and Base Plates: 150x150x6mm to BS4360 with 38mm Dia. hole.

Code	Size	Height	Weight
PR0000	0	1.04m - 1.83m	12.95kg
PR0100	1	1.75m - 3.13m	18.64kg
PR0200	2	1.98m - 3.35m	19.55kg
PR0300	3	2.59m - 3.96m	22.57kg
PR0400	4	3.20m - 4.88m	26.36kg

Adjustable Steel Push-Pull Props

Adjustable Steel Push-Pull Props are designed for holding and plumbing single and double faced forms. The lower plate is fixed to a ground anchor with the top plate being fixed to the shutter The Adjustable Push-Pull Prop includes a standard Prop Collar with a additional Locking Collar to maintain rigidity as well as maximum safety. Head and Base Plates - 150 x 150 x 6mm to BS4360 with 38mm Dia. hole. Fully compliant to BS4074 and tested to BS5507.

Code	Size	Height	Weight
PR0600	0	1.140m - 1.829m	10.90kg
PR0700	1	1.850m - 3.124m	19.30kg
PR0800	2	2.080m - 3.352m	20.20kg
PR0900	3	2.690m - 3.962m	22.80kg
PR0904	4	3.300m - 4.876m	27.50kg

Props & Shoring

The Masonry Wall Support is used as an adaption to an Adjustable Steel Prop, conforming to BS4074:1982, to provide support to brickwork and other construction support structures.

Due to the Masonry Wall Supports robust dynamics, it can be fitted between courses on a double-skin, brick cavity wall from either side. Therefore providing a cost effective, efficient and safe construction component. The Masonry Wall Support is zinc plated, this ensures a long life and low maintenance product.

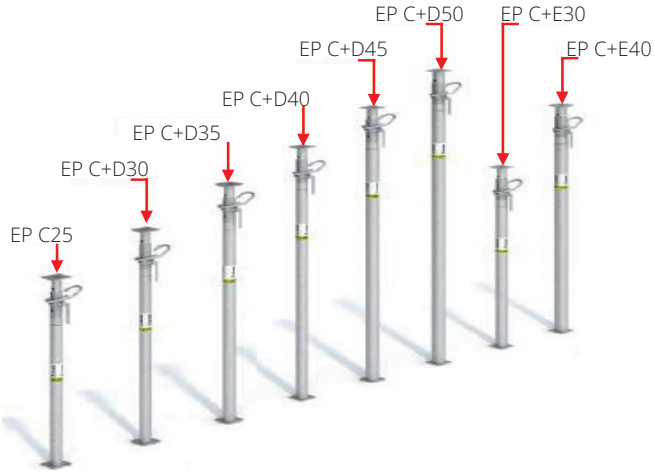
Code	Product	Weight
SBOY01	Strongboy®	5.80kg

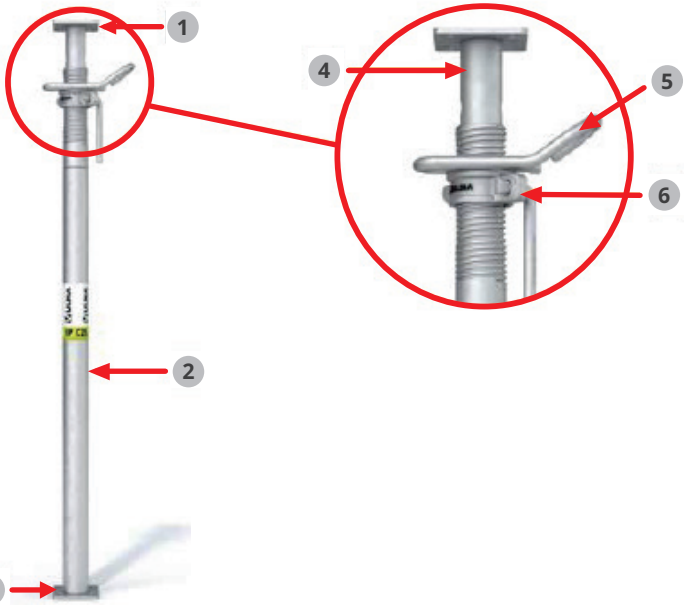
Props & Shoring

EP Props

Designed for the shoring of slab formwork and other several applications on site and ideal for jobs where **safety is the key factor.**

Our EP props have been designed based on the European Props standard.



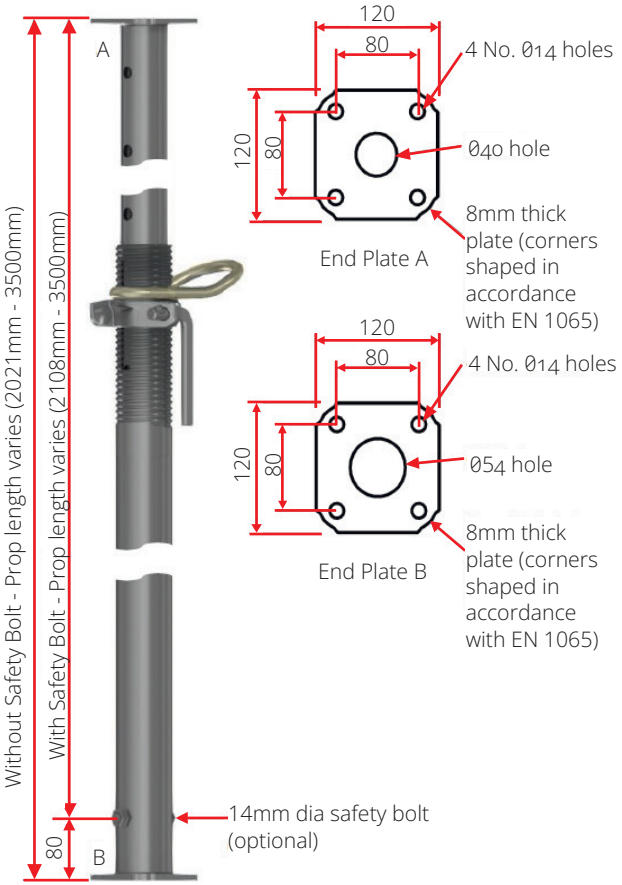


1. Plate
2. Outer Tube
3. Base Plate
4. Inner Tube
5. Cotter pin
6. Collar nut

Props & Shoring

E35 Prop

A lightweight versatile Class 'E' prop rated at 30kN AWL in accordance with EN 1065.



Extension (m)	AWL* (kN)
2.1	40
2.2	40
2.3	40
2.4	40
2.5	40
2.6	40
2.7	40
2.8	40
2.9	40
3.0	40
3.1	39
3.2	37
3.3	35
3.4	32
3.5	30

*Note: Load capacity depends upon correct installation of prop pin.

Props & Shoring

Megashor

Description:

One system with extensive applications. Megashor is an ultra high-duty modular propping system designed for axial loads of up to 1000kN. But its real strength lies in its versatility.
From heavy lifting towers to travellers for tunnel formwork, bracing for excavations, shoring and trusses, Megashor can be configured for a huge variety of applications.

Megashor is the outcome of more than 50 years experience gained on major projects throughout the world. What's more, our international network of local offices means that when you deal with Altrad Generation, you talk to people who understand the working environment, technical difficulties and the challenges you face.

Advantages:

- Nine strut sizes, ranging from 15mm to 5400mm, plus a full range of accessories means that Megashor can be assembled into props, towers and trusses of almost any length, all from standard components.
- Super Slim Soldiers provide restraint to Megashor and are available in nine lengths from 10mm to 3600mm. This gives ultimate flexibility when planning the sizes of towers and centres of props, therefore minimising the need for custom made equipment.
- A unique 1000kN axial load capacity and high axial stiffness ensures that Megashor will accommodate the rigours of heavy-duty falsework, cofferdams, bridge bearing replacement and façade retention applications.
- Megashor is approved for support of bridges open to live traffic - bridge bearing replacement work can be carried out with minimum disruption to traffic flows.
- Our quality assured manufacturing process, using close-tolerance jigs, ensures consistent and accurate fabrication, resulting in good assembly alignment on site, saving time, onsite modifications and labour costs.

Props & Shoring

Superslim

Description:

The Super Slim Soldier is the definitive formwork primary beam, with its unrivalled strength-to-weight ratio, versatility and range of accessories. Robust and easily assembled into beams of almost any length, the Super Slim Soldier can be re-used on site after site, without modification, for virtually any formwork or other temporary works.

It's the result of over 50 years experience gained on major projects throughout the world. What's more, our network of local branches means that when you deal with Altrad Generation, you talk to people who understand the working environment, technical difficulties and the challenges you face.

Advantages:

- Nine standard lengths, from 10mm to 3600mm, give almost unlimited scope for assembling beams of virtually any length.
- Huge range of standard accessories is designed to reflect the diverse applications demanded by major projects. Gantries, shoring, spanning trusses and frames, as well as formwork panels.
- Standard fixtures and clamps make it fully compatible with other Altrad Generation and RMD Kwikform product ranges and, in many cases, with customers' own equipment.
- Formwork ties and other components can be fixed virtually anywhere along the Super Slim Soldier's length, you have complete freedom to create the optimum design, whatever the application.
- Using close-tolerance jigs, the Super Slim Soldier is precisely manufactured from high-yield steel, combining maximum durability and load capacity with reduced unit weight.
- Robustness to cope with the demands of frequent re-use means easier assembly and consistently accurate fabrication on-site.

KSP Shaft Platform

KSP shaft platform is used in internal hollows where due tospace limitations it is not possible to use climbing brackets (elevator shafts, bridge piers and any other hollow geometry to be casted or poured in place). It provides support to the wall formwork and can be used as a working platform to carry out various tasks such as formwork erection and plumbing.

One of its special features is that by using the gravity pawl bracket and the different ULMA walers it is possible to cover a wide range of spans in this kind of internal hollows.

The KSP platfrom is mainly used with the standaed climbing brackets on the opposite side of the wall. It is made up of walers (DU or MK) and the gravity pawl bracket.

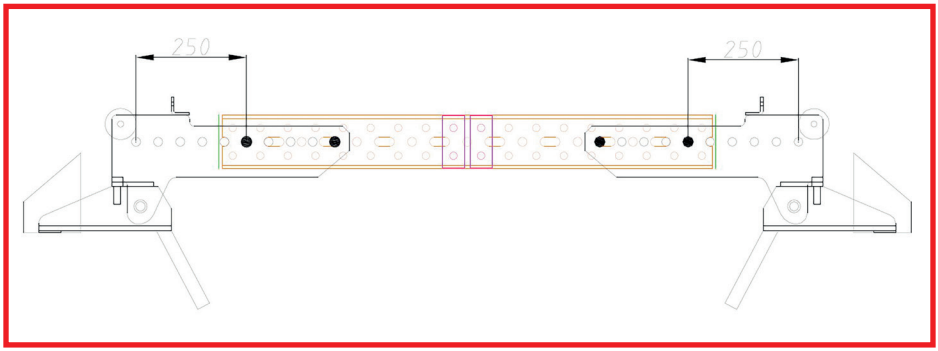
Basic system features are:

- Walers range that may be used:

- DU-100
- DU-120
- MK-120
- MK-180

140 or 160 mm section height walers could be used if the holes match with those of DU or MK.

- Maximum 250 mm regulation on each side (hole seperation: 50 mm)



- Possibility to hang cone recovery platform.
- Different anchors on the wall are possible, with GP boxes or folding brackets.

Climbing Formwork

BMK Configurable Climbing Bracket

Climbing bracket BMK-240

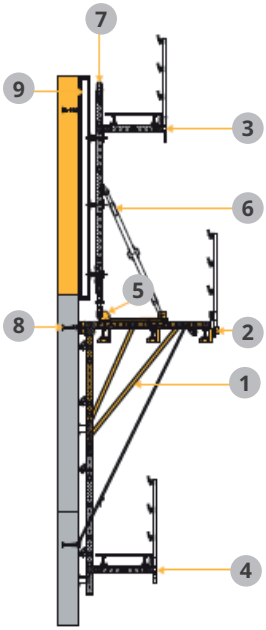
- For Building Construction and Civil Works
- Platform width: 240 cm
- 35 m2 formwork surface per pair of climbing brackets
- Anchorage to wall: DW15, DW20
- Formwork stripping distance: 80 cm with roll-back carriage, or 5 cm to 15 cm with tilt-back system
- Adaptable to inclined walls

Climbing bracket BMK-170

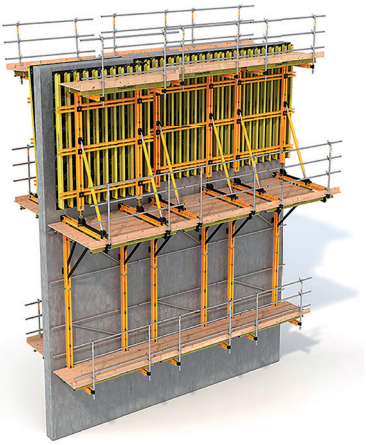
- For Building Construction and Civil Works
- Platform width: 170 cm
- 35 m2 formwork surface per pair of climbing brackets
- Anchorage to wall: DW15, DW20
- Formwork stripping distance: 5 cm to 15 cm with tilt-back system
- Adaptable to inclined walls

Climbing bracket SBMK-180

- For Civil Works
- Platform width: 180 cm
- Wall anchor: DW20
- Formwork stripping distance: 5 cm to 15 cm with tilt-back system
- Adaptable to inclined walls



1. BMK Brackets
2. Main platform
3. Pouring platform
4. Cone recovery platform
5. Roll-back system
6. Push-pull prop
7. Vertical waler
8. Anchorage
9. Formwork



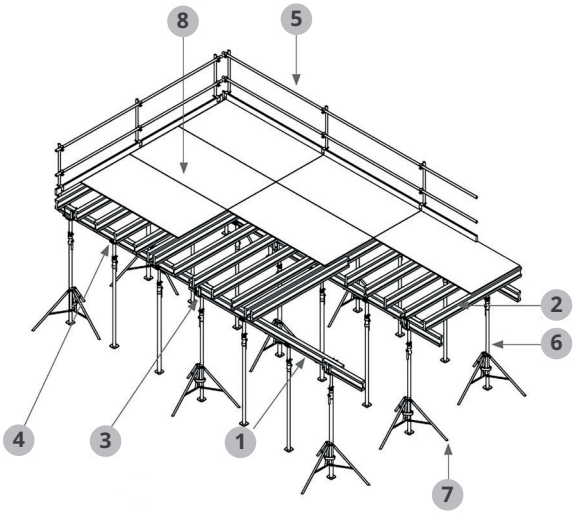
Slab Formwork

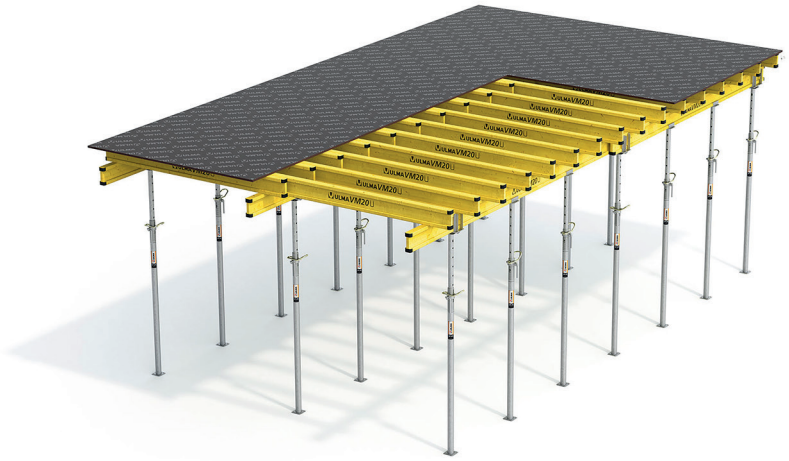
Enkoflex - Timber Beam Slab Formwork

Main Features:

- **System adaptable** to any type of slab and height. Independent beams provide **great felxibility**.
- Moldable to **irregular geometries** and to other formwork systems for easy infilling.

1. VM-20 Primary Beams
2. VM-20 Secondary Beams
3. Double Head
4. Single Head VR
5. Safety Handrail
6. Prop
7. Tripod
8. Board



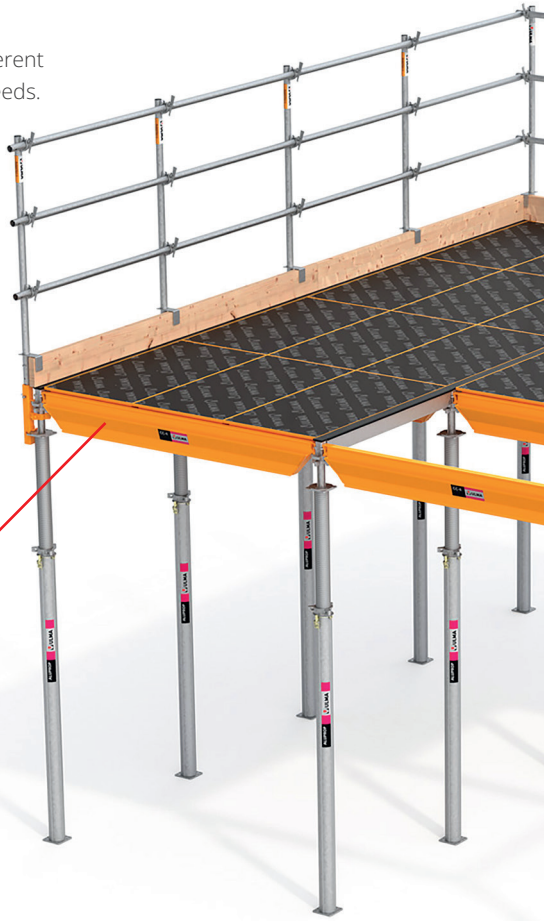


Slab Formwork

CC-4 Panel

Basic Grid 2.32m x 1.5m

Different grids can be cofigured by combining different beams and transversals according to the user's needs.



Maximum Slab Thickness: Up to 90cm. System suitable for both solid and lightened slabs.

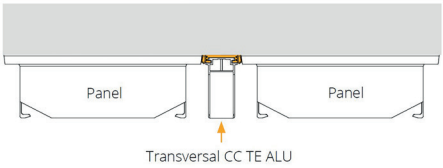
Impact of Props: 0.29 Props/m²

The **Beam CC** is supported by the Drophead CC and then lifts up, making it possible for one worker to assemble the beam.

Determines the length of the grid:
2.32m / 1.57m

The Transversal CC TE ALU determines the width of the grid: 1.5m / 0.75m.

This is an aluminium profile with a plastic and rubber top cover that ensures the **water-tightnes** with the panel that **prevents possible concrete leaks**.



The drophead (Head CC) allows early recovery of beams, transversals and panels after 3 days, reuse on the next pour.

Striking Sequence

Simple and safe striking. The elements are lowered by 15cm due to the drophead.

Slab Formwork

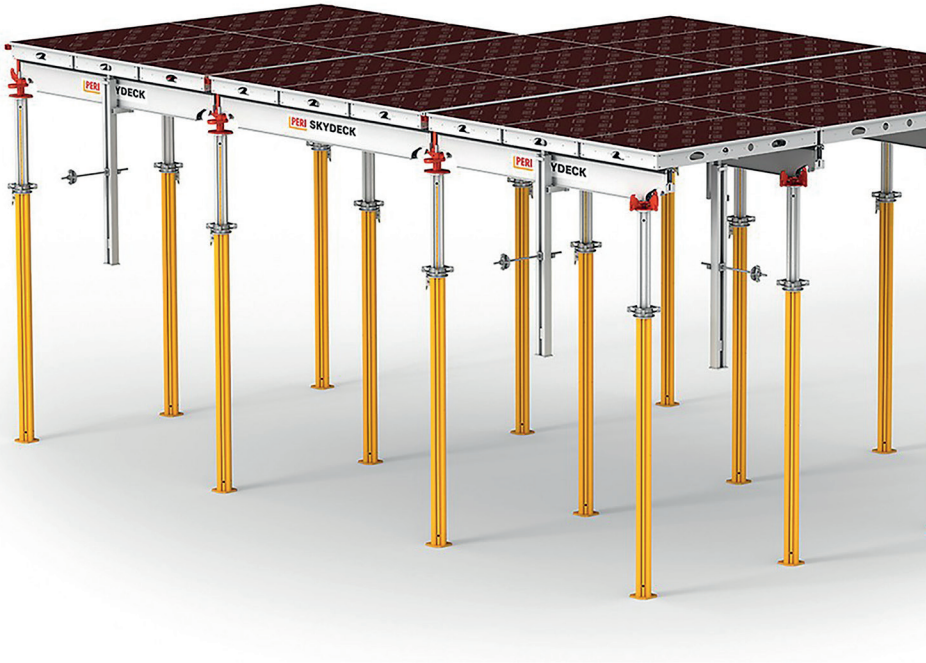
SKYDECK - Aluminium Panelized Slab Formwork

The lightweight and proven slab formwork with short forming times.

Working with SKYDECK results in fast as well as safe forming operations with a systematic assembly sequence. The low weight, compact dimensions and design of the system components facilitate non-tiring and ergonomic working operations.

SKYDECK has been designed for standard use in constructing slabs with thicknesses up to 43cm. With the 75cm panel width, slabs up to 109cm thick can be formed. The well thoughtout design with drophead allows early striking and reduces on-site material requirements.

With SKYDECK, infill areas are reduced to an absolute minimum. In addition, SKYDECK makes a convincing case with an extensive range of safety and logistics accessories. A further advantage is the easy horizontal transportation of formwork materials due to the low number of props required.

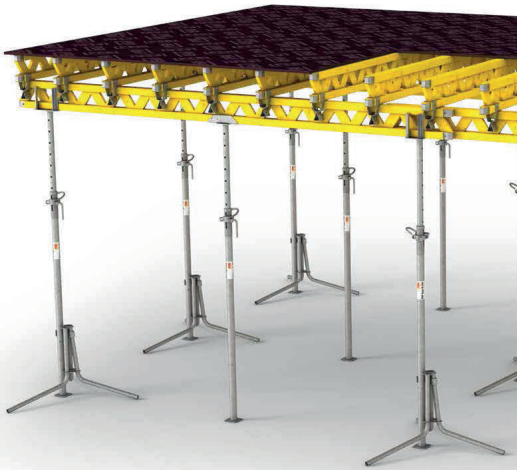


Slab Formwork

MULTIFLEX

The flexible and adaptable girder slab formwork.

MULTIFLEX, the universal girder slab formwork system for any ground plan and any floor height.



The GT 24 lattice girder or the VT 20 solid formwork girder can be used. With MULTIFLEX you always shutter cost-effectively and efficiently.

Using the universal, rigid and long-lasting GT 24 lattice girder allows large spacings for main, secondary girders and supports. The GT 24 reduces the number of components to be erected and struck.

The VT 20 girder with its high-grade web board is the cost-effective solution for thinner slabs.

Slab Formwork

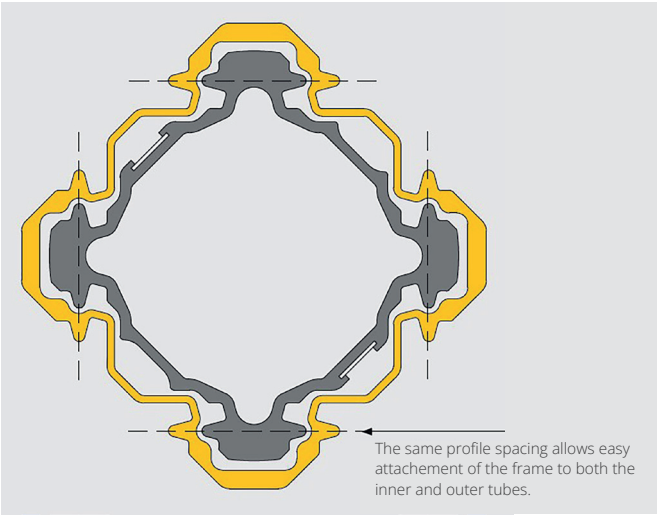
MULTIPROP

The lightweight Slab Prop with patented profile and official construction licence.

MULTIPROP MP, the aluminium slab prop for use as an individual prop, shoring towers or under tables.

The MULTIPROP post shores are made of aluminium which mean they are very light. Weighing only 19.40kg, the MP 350 can be extended from 1.95 – 3.50m and covers 90% of standard operations in building construction.

MULTIPROP post shores MP 250, 350, 480 and 625 are officially approved by the Deutsches Institut für Bautechnik in Berlin (No. Z-8.312-824).



The same profile spacing allows easy attachement of the frame to both the inner and outer tubes.

The light MULTIPROP 480 with high load bearing capacity is used for supporting a MULTIFLEX slab with VT 20K as main and secondary girders.

Notes

Scaffolding

Scaffold Tube

Scaffold Fittings

Scaffold Boards

Aluminium & Steel Beams

Scaffold Ancillaries

Brickguards

Scaffold Tools

Sheeting & Debris Netting

Scaffold Storage

Scaffold Tube

Altrad Generation supplies a number of scaffold tube options including both standard 4mm EN39 and 3.2mm High Yield Steel Tube or Aluminium EN 10219-1 in a range of lengths that are compatible for both commercial and private building projects. If you're not sure what Grade of scaffold tube you require, contact your local branch for more information. We're happy to help.

4mm Hot Dipped Galvanised Tube

Available in various lengths up to 6.40m (21') Fully conforming to EN39:2001 Grade S235GT 48.3mm diameter x 4mm nominal wall thickness. Product Tested and Certified.

Code	Description	Length	Weight
05GALV	Hot Dipped Galvanised Tube - 1.5m	1500mm	6.80kg
GTB060	Hot Dipped Galvanised Tube - 1.8m	1800mm	8.16kg
08GALV	Hot Dipped Galvanised Tube - 2.4m	2400mm	10.88kg
10GALV	Hot Dipped Galvanised Tube - 3.0m	3000mm	13.60kg
13GALV	Hot Dipped Galvanised Tube - 3.9m	3900mm	17.68kg
16GALV	Hot Dipped Galvanised Tube - 4.8m	4800mm	21.76kg
21GALV	Hot Dipped Galvanised Tube - 6.4m	6400mm	28.56kg

Scaffold Fittings

EN 74-1B

Desc.	Drop Forged Double Coupler
Wt.	1.00kg
Code	**F01D00**

EN 74-1A

Desc.	Drop Forged Swivel Coupler
Wt.	1.00kg
Code	**F02D00**

BS 1139.2.2

Desc.	Drop Forged Putlog Coupler
Wt.	0.60kg
Code	**F01D01**

EN 74-1A

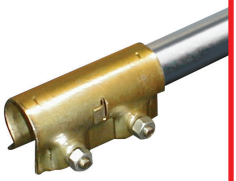
Desc.	Pressed Steel Double Coupler
Wt.	1.00kg
Code	**F01000**

EN 74-1A

Desc.	Pressed Steel Swivel Coupler
Wt.	1.00kg
Code	**F02000**

Desc.	Pressed Steel Putlog Coupler
Wt.	0.60kg
Code	**F03000**

EN 74-1B

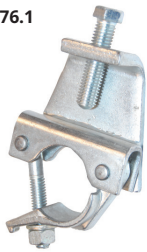


Desc.	Pressed Sleeve
Wt.	1.10kg
Code	**F05000**

BS 1139.2.2

Desc.	Pressed Joint Pin
Wt.	1.10kg
Code	**F04000**

AS 1576.1



Desc.	Girder Coupler (Use in Pairs)
Wt.	1.56kg
Code	**F09000**

Scaffold Fittings

EN 74-1A

Desc.	Band & Plate
Wt.	2.00kg
Code	**F11000**

Desc.	Board Clamp
Wt.	0.60kg
Code	**KS5300**

Desc.	Toe Board Clip
Wt.	0.20kg
Code	**KS3650**

Desc.	Putlog Head
Wt.	0.40kg
Code	**F49000**

EN 74-1A

Desc.	External Hook Coupler
Wt.	1.03kg
Code	**F09001**

Desc.	Roofing Coupler
Wt.	1.00kg
Code	**F35000**

Desc.	Ladder Clamp
Wt.	1.00kg
Code	**F38000**

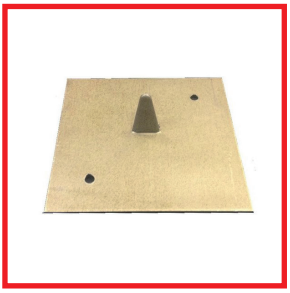
Desc.	Klawz Fitting
Wt.	-
Code	**10685**

Desc.	Nylon Plugs
Dim.	-
Code	**M24000**

Scaffold Fittings

Desc.	Restraining Eye
Dim.	50mm x 160mm
Code	**SP0600**

Desc.	Base Plate Tube
Wt.	0.40kg
Code	**F07010**



Desc.	Pressed Base Plate
Wt.	0.40kg
Code	**F07020**

Scaffold Boards

Timber Boards

All our boards are made to the exacting standards of BS 2482:2009 using visually or machine graded timber with support spans of up to 1.2m or machine stress graded with support spans of up to 1.5m.

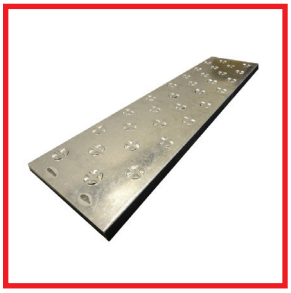
Available in standard industry sizes, all scaffold boards can be branded and banded with your company's name upon request as well as nail-plated.

Code	Description	Depth	Width	Weight
SB0300	3ft Timber Scaffold Board - 1.2m Support	38mm	225mm	4.26kg
SB0400	4ft Timber Scaffold Board - 1.2m Support	38mm	225mm	5.68kg
SB0500	5ft Timber Scaffold Board - 1.2m Support	38mm	225mm	7.10kg
SB0600	6ft Timber Scaffold Board - 1.2m Support	38mm	225mm	8.52kg
SB0800	8ft Timber Scaffold Board - 1.2m Support	38mm	225mm	11.36kg
SB1000	10ft Timber Scaffold Board - 1.2m Support	38mm	225mm	14.20kg
SB1300	13ft Timber Scaffold Board - 1.2m Support	38mm	225mm	18.46kg

Code	Description	Depth	Width	Weight
M01000	18inch / 450mm Sole Pads	38mm	225mm	2.00kg

Scaffold Boards

Steel Scaffold Boards - Sale Only



Available in various lengths between 3ft and 13ft.
Conforms to BS EN 12811-1.

Fire retardant and long lasting, perfect for harsh environments and use in onshore and offshore facilities.

Code	Description	Depth	Width	Weight
SSB030	3' Galvanised Steel Board	38mm	225mm	5.10kg
SSB040	4' Galvanised Steel Board	38mm	225mm	6.80kg
SSB050	5' Galvanised Steel Board	38mm	225mm	8.50kg
SSB060	6' Galvanised Steel Board	38mm	225mm	10.20kg
SSB080	8' Galvanised Steel Board	38mm	225mm	13.60kg
SSB110	10' Galvanised Steel Board	38mm	225mm	17.00kg
SSB130	13' Galvanised Steel Board	38mm	225mm	22.00kg

Plastic Scaffold Board (Supadeck)

Supadeck is a unique lightweight decking system that is strong and durable. It is easier, safer and cleaner to use than steel and traditional timber boards.

Supadeck for tubular scaffolding 45mm x 225mm clear spans of at least 1.5m. Weight @ 3.9m - 13kg

Supadeck for batten applications 63mm x 225mm clear spans of at least 2.4m. Weight @ 2.4m - 11.5kg

Code	Description	Depth	Width	Weight
SBP040	1.5m Supadeck Board	45mm	225mm	6.15kg
SBP080	2.4m Supadeck Board	45mm	225mm	9.85kg
SBP100	3.0m Supadeck Board	45mm	225mm	12.30kg
SBP130	3.9m Supadeck Board	45mm	225mm	16.00kg

Aluminium & Steel Beams

450mm High Capacity Alloy Beam

The Aluminium 450mm Beam has been the market leader in Europe for more than 20 years. It provides significant time and cost savings across a whole range of scaffold structures.

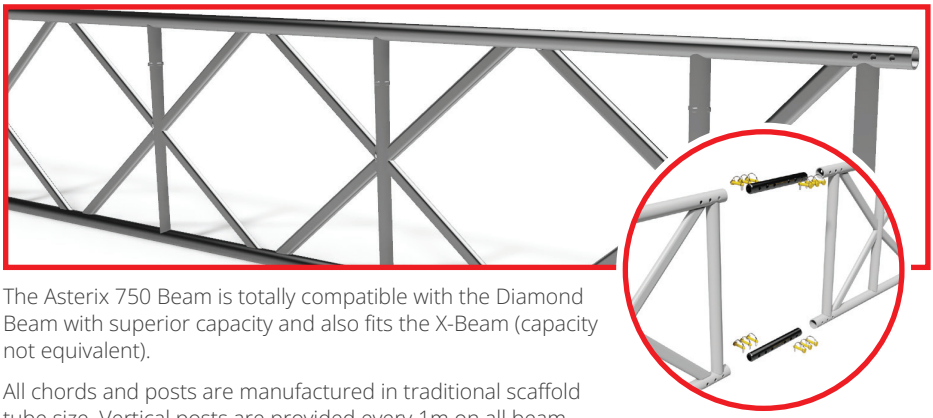
Suspended or mobile platforms, birdcages, protection-decks bridges or temporary roofs are ideal applications for the Aluminium 450mm Beam.

The Aluminium 450mm Beam has been specifically designed to provide the highest possible UDL. The unique design allows connection directly to the node point between the diagonals, achieving maximum loading. This means, in most applications, the lowest number of beams are required. In addition, beams are quickly and simply joined together with straight connectors using fast action spring clips.

Code	Description	BS EN 1999-1 (1.0m Restraints)		Weight
		Perm. Shear	Perm. Moment	
ALB130	4.1m x 450mm Beam	11.66kN	20.19kNm	17.00kg
ALB200	6.1m x 450mm Beam	11.66kN	20.19kNm	23.00kg
ALB260	8.1m x 450mm Beam	11.66kN	20.19kNm	31.00kg
ALB020	60mm Spring Clip	-	-	0.03kg
ALB010	450mm 6 Hole Steel Spigot	-	-	1.13kg

Aluminium & Steel Beams

Asterix 750 Beam



The Asterix 750 Beam is totally compatible with the Diamond Beam with superior capacity and also fits the X-Beam (capacity not equivalent).

All chords and posts are manufactured in traditional scaffold tube size. Vertical posts are provided every 1m on all beam sizes.

The Asterix 750 Beam also offers consistent node spacing when multiple beams are joined. The node points are spaced to allow connection of a standard scaffold fitting at any point.

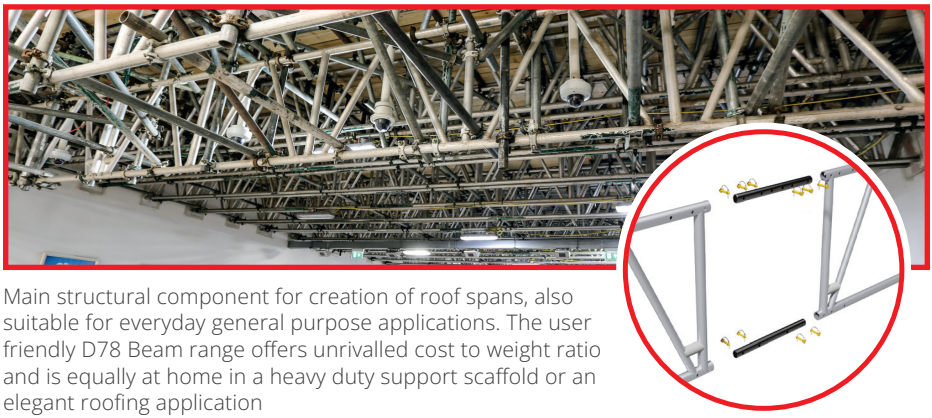
- 18 degree, 12 degree and 6 degree ridge beams available.
- Consistent diagonal node spacing when multiple beams are joined.
- Closed end beams so whole length can be used for support unlike other 750 beams where end support has to be set in 0.5m each side, effectively wasting 1m of beam each time.
- Joined using simple spigots and quick release spring clips.
- Suitable for use with Temporary Roofing Systems.

Conforms to BS EN 1999-1-1 Eurocode 9

Code	Description	BS EN 1999-1 (1.0m Restraints)		Weight
		Perm. Shear	Perm. Moment	
BC1000	1.0m x 750mm Beam	23.73kN	41.30kNm	6.94kg
BC2000	2.0m x 750mm Beam	23.73kN	41.30kNm	12.72kg
BC3000	3.0m x 750mm Beam	23.73kN	41.30kNm	18.49kg
BC4000	4.0m x 750mm Beam	23.73kN	41.30kNm	24.27kg
BC5000	5.0m x 750mm Beam	23.73kN	41.30kNm	11.75kg
BC6000	6.0m x 750mm Beam	23.73kN	41.30kNm	19.61kg
ALB010	6 Hole Steel Spigot	-	-	0.70kg
ALB020	60mm Spring Clip	-	-	0.03kg

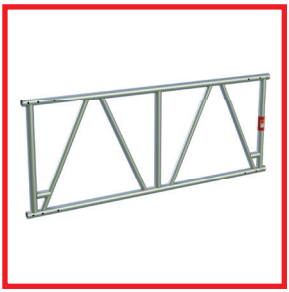
Aluminium & Steel Beams

D780mm Alloy Beam



Main structural component for creation of roof spans, also suitable for everyday general purpose applications. The user friendly D78 Beam range offers unrivalled cost to weight ratio and is equally at home in a heavy duty support scaffold or an elegant roofing application

- High strength, low weight and maximum versatility.
- Manufactured in traditional scaffold tube size.
- Vertical posts are provided each 1m on all beam sizes.



Conforms to BS EN 1999-1-1 Eurocode 9

Code	Description	BS EN 1999-1 (1.0m Restraints)		Weight
		Perm. Shear	Perm. Moment	
BA0500	0.5m Beam	23.71kN	38.8kNm	4.30kg
BA1000	1.0m Beam	23.71kN	38.8kNm	6.34kg
BA2000	2.0m Beam	23.71kN	38.8kNm	11.63kg
BA3000	3.0m Beam	23.71kN	38.8kNm	16.92kg
BA4000	4.0m Beam	23.71kN	38.8kNm	22.21kg
BA5000	5.0m Beam	23.71kN	38.8kNm	27.50kg
BA6000	6.0m Beam	23.71kN	38.8kNm	32.79kg
ALB010	6 Hole Steel Spigot	-	-	1.49kg
ALB020	60mm Spring Clip	-	-	0.03kg

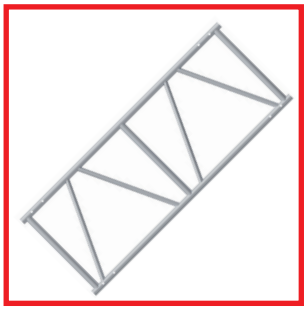
Aluminium & Steel Beams

780mm Aluminium Beam

The 780 Aluminium Beam is high strength, low weight and has maximum versatility. The beam range has overall depths of 0.78m and comes in lengths from 2m to 6m.

All member components are manufactured in traditional scaffold tube size and vertical posts are provided each 1m on all beam sizes. It also has consistent node spacing when multiple beams are joined, and node points are spaced to connect a standard scaffold fitting at any point.

The beam can be joined using the Altrad Generation Spigot Connector.



Code	Description	BS EN 1999-1 (1.0m Restraints)		Weight
		Perm. Shear	Perm. Moment	
BA3000	3.0m x 780mm Beam	30.70kN	36.50kNm	16.70kg
BA4000	4.0m x 780mm Beam	30.70kN	36.50kNm	22.00kg
BA5000	5.0m x 780mm Beam	36.50kN	38.80kNm	27.40kg
BA6000	6.0m x 780mm Beam	30.70kN	36.50kNm	32.70kg
ALB010	6 Hole Steel Spigot	-	-	0.08kg
ALB020	60mm Spring Clip	-	-	0.03kg

Aluminium & Steel Beams

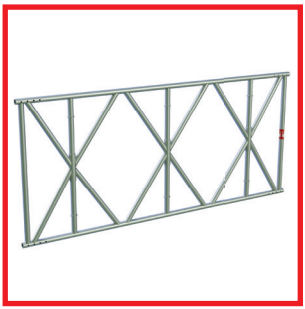
1.33m Heavy Duty Asterix Alloy Beam

Single Beam Lines, Massive Spans

Multiple beam lines omitted for most applications, greatly simplifies lacing and bracing, massive reduction in fittings and labour.

Special Design, Quality Manufacture

Optimum arrangement of internal members for maximum capacity and consistent node spacing. All beams closed end for stability and strength, spigot jointed.



Brace with System or Tube and Fittings

Asterix HD Beam depth enables use of system K frames for both plan and section bracing, meaning large beams can be braced in minutes. Alternatively, traditional tube and fittings can be used for both lacing and bracing. Unlike most other scaffold beams on the market today it is permissible to connect scaffold couplers to the posts of Asterix HD.

Code	Description	BS EN 1999-1 (1.0m Restraints)		Weight
		Perm. Shear	Perm. Moment	
BD0550	0.55m x 1.33m Beam	32.60kN	102.20kNm	6.33kg
BD1000	1.0m x 1.33m Beam	32.60kN	102.20kNm	13.33kg
BD2000	2.0m x 1.33m Beam	32.60kN	102.20kNm	22.60kg
BD3000	3.0m x 1.33m Beam	32.60kN	102.20kNm	31.87kg
BD4000	4.0m x 1.33m Beam	32.60kN	102.20kNm	41.13kg
BS0006	8 Hole Steel Spigot	-	-	1.44kg
ALB020	60mm Spring Clip	-	-	0.03kg

Aluminium & Steel Beams

Ladder Beams

Steel Ladder Beams are an economical, versatile structural steel support beam available for hire or sale, fully compatible with traditional tube and fittings and used to enable clear spans to be constructed between adjacent scaffolding structures. Ideally suited to long term applications and used extensively on high level pavement gantries, heavy duty loading bays, cantilevered structures, temporary shores, truss out scaffolds and slung / suspended structures.

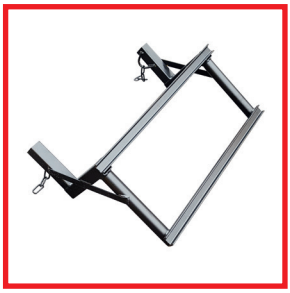
Also Available Galvanised and Aluminium Ladder Beams

Call your nearest branch for further details

Max moment are for spans over 3.7m

Code	Description	BS EN 1999-1 (1.0m Restraints)		Weight
		Perm. Shear	Perm. Moment	
LB0600	6ft (1.8m) Steel Ladder Beam	20.00kN	12.70kNm	18.40kg
LB0800	8ft (2.4m) Steel Ladder Beam	20.00kN	12.70kNm	24.50kg
LB1000	10ft (3.0m) Steel Ladder Beam	20.00kN	12.70kNm	30.60kg
LB1300	13ft (3.9m) Steel Ladder Beam	20.00kN	12.70kNm	40.00kg
LB1600	16ft (4.8m) Steel Ladder Beam	20.00kN	12.70kNm	49.00kg
LB2100	21ft (6.4m) Steel Ladder Beam	20.00kN	12.70kNm	64.20kg

Scaffold Ancillaries



Desc.	Rubbish Chute Fixing Frame
Wt.	0.90kg
Code	**UC0100**

Desc.	Top Hopper Rubbish Chute
Wt.	10.00kg
Code	**RCTH00**

Desc.	Rubbish Chute
Wt.	9.00kg
Code	**RCSS00**

Desc.	Side Entry Rubbish Chute
Wt.	-
Code	**RCSH00**

Desc.	ScaffTag
Wt.	-
Code	**M7100S**

Desc.	6 Ton Standard Base Jack
Wt.	4.70kg
Code	**KD0600**

Desc.	6 Ton Swivel Base Jack
Wt.	4.30kg
Code	**KS2900**

Desc.	8" Rubber Solid Scaffold Castor
Wt.	6.50kg
Code	**F19000**

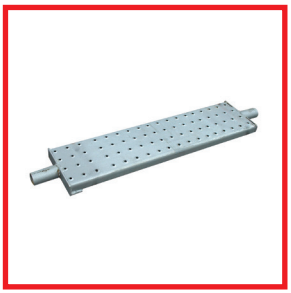
Desc.	10" Gin Wheel
Wt.	5.00kg
Code	**F27000**

Scaffold Ancillaries

Desc.	Tube End & Thread Caps
Wt.	0.01kg
Code	**M17000**

Desc.	Alu. Scaffolders Step SG4
Wt.	6.20kg
Code	**STEPUP**

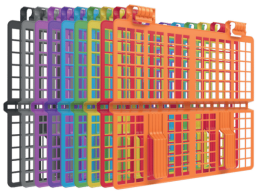
For information on ladders see the **Ladders & Builders Products** Section



Steel Stair Tread

Code	Description	Length	Weight
M98000	Steel Stair Tread	900mm	7.20kg
M99000	Steel Stair Tread	1220mm	10.50kg

Brickguards



J.Mac Plastic Brickguards

Meets with TG20 and BSEN12811 standards.
The 'V' groove allows the Brickguard to run past scaffolding standards and over the rosettes. 2no. Toe Board Connectors give more security and improved fixing. It is also longer in height than other Brickguards on the market.

(J.Mac 945mm versus Max @ 840mm).

Code	Description	Weight
BRICK1	J.Mac Black Plastic Brickguard	1.85kg
BRICK2	J.Mac Green Plastic Brickguard	1.85kg
BRICK0	J.Mac Coloured Plastic Brickguard	1.85kg

MAX Brickguards

Manufactured and tested to EN12811-1:2003 standards.
Complete one-piece construction with no separate parts to count or lose. Made from high grade impact modified polypropylene. A built in Toe Board Clip maximises safety even in high winds.

Code	Description	Weight
045108	Black Max Guard	1.00kg
045109	Blue Max Guard	1.00kg

Available In Other Colours

Scaffold Tools

Large Stocks Available Nationwide

Altrad Generation provides a full range of scaffolders tools including spanners, ratchets and hammers - we are sure to have what you need. For our full range of tools, please contact your nearest branch on **0800 779 7113.**

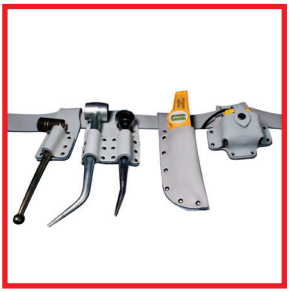
Desc.	7/16" Chrome Flat Handle Spanner
Wt.	0.60kg
Code	**M36D00**

Desc.	Podger Hammer
Wt.	-
Code	**M90000**

Desc.	7/16" Ratchet Spanner
Wt.	0.30kg
Code	**M36C00**

Desc.	Steel Magnetic Spirit Level
Wt.	0.20kg
Code	**M32000**

Desc.	5m Steel Tape Measure
Wt.	0.10kg
Code	**M47000**



Desc.	Various Belts, Frogs and Holders are available to suit all tools.

Sheeting and Debris Netting

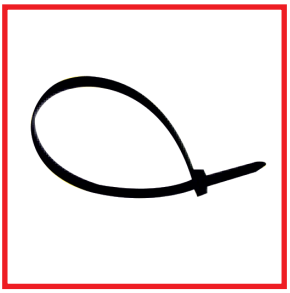
Acoustic Noise Barrier Flame Retardant Sheeting

Measurable noise reduction minimises environmental impact close to noise sensitive sites. Powerclad Acoustic Sheeting features a special sound absorbing foam which provides both thermal insulation and sound absorption. Also available to fit perimeter fence panels.

Compliant to BS7955

Code	Dimensions	Tensile Strength	Flame Retardant	Weight
M04000	2.2m x 10m	-	EN13501-1 Class E	-

Sheeting and Debris Netting Ties



Desc.	Cable Ties
Wt.	0.22kg
Code	**M03000**

For use with debris netting.
100 ties per pack.
1 Pack per roll.

Desc.	Flexitie
Wt.	1.50kg
Code	**M38100**

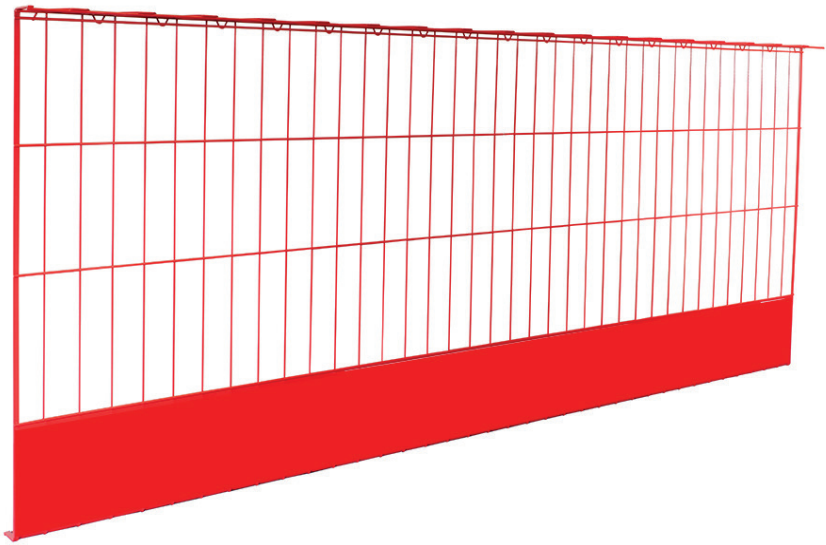
For use with Scaffband and Tri-Flex Sheeting.
100 ties per pack.
1 Pack per roll.

Scaffold Storage

Desc.	Steel Stillage
Wt.	29.50kg
Code	**F10000**

Desc.	Steel Bin
Wt.	50.00kg
Code	**F99000**

Desc.	Fitting Sack
Wt.	**2.50kg**
Code	**F39000**



Edge Protection

Combisafe Edge Protection & Fall Protection System

Steel Frame Solutions

Concrete Frame Solutions

Staircase Edge Protection

Combisafe Edge Protection & Fall Protection System

Altrad Generation are a preferred supplier of the Combisafe Edge Protection System, established nearly 40 years ago, their continued development of the product range means they have earned the reputation of delivering a user friendly, adaptable edge protection system. The Combisafe range of components, together with the new lightweight barrier range available in 5 sizes, means we can offer a multitude of solutions to suit a wide range of applications.

All products are fully tested and have been proven to meet and exceed the test requirements set out in BS EN 13374:2013 for Class A and Class B.

Standard Height Barriers

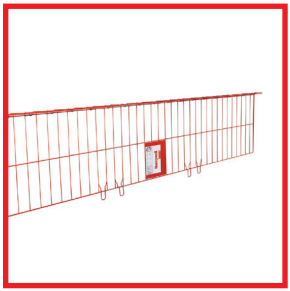
Lightweight barrier providing guardrail, toeboard and debris mesh in one product.

Code	Description	Size	Weight
320300	Steel Mesh Barrier 2.6	2600mm	14.20kg

Combisafe Edge Protection & Fall Protection System

When choosing the Combisafe Edge Protection you can be assured of:

- Dedicated Combisafe trained Account Manager: **combisafe@altradgeneration.com**
- Detailed quote with technical drawings.
- Optional additional detailed drawings, including phasing and indexing to save you time on-site
- On-site product familiarization.
- On-site support, including installation and erection checks.
- Comprehensive installation guides.
- Edge Protection Federation accredited courses available.
- Readily available stock within our network of branches across Ireland.
- Fast and flexible delivery via our fleet of lorries, fitted with Hiab cranes.



Make Up Height Barriers

Used together with the steel mesh barrier to increase height of edge protection to 1750mm.

Code	Description	Size	Weight
321700	Steel Mesh Barrier Make-up 2.6	2600mm	7.00kg

Universal Safety Posts

When mounted with the various attachments and steel mesh barriers, it forms a safe fall protection solution.

Code	Description	Length	Weight
414000	Safety Post, 1.15m - System C	1150mm	1.90kg
414500	Safety Post, 1.35m - System C	1350mm	2.20kg
415000	Safety Post, 1.80m - System C	1800mm	2.90kg

Steel Frame Solutions

Their range of attachment's available gives the user multiple solutions for any scenario on site, this together with the adaption process makes it the simplest and most user-friendly system to use on Steel Frame buildings.

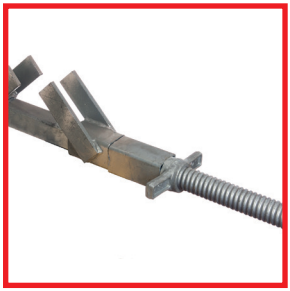
Flexi Attachment MK2 - System C

Used to provide a post attachment at an adjustable offset, up to max 350mm from a vertical surface. Used in beam webs, walls, facades, shaft sides or slab edges etc..

Full Flexi Attachment is an extended version of the Flexi Attachment, offering up to a 650mm range of movement.

The Cantilever Bracket is an extended version of the flexi attachment, protrudes 1000mm from beam. Requires two posts per attachment

Code	Description	Size	Weight
422100	Flexi Attachment MK2 - System C	380mm x 494mm	4.80kg
595149	Cantilever Bracket	-	17.60kg



Steel Jaw Clamp MK2 - System C

Ensures a secure attachment to steel beams and columns. The jaws and the sacer can be re-positioned on the body to increase the offset or to attach in both the horizontal and vertical plane.

Code	Description	Size	Weight
454200	Steel Jaw Clamp MK2 - System C	270mm x 850mm	7.90kg

Welded Socket

Welded directly to steel beams to support edge protection safety posts, used in conjunction with precast attachment sleeves eliminates the risk of accidental removal of the post.

Code	Description	Size	Weight
C10715	Welded Socket	-	0.50kg
011665	Intermediate Flange Socket	-	2.50kg

Pre-cast Attachment Sleeve - System C

For use with welded socket.

Code	Description	Size	Weight
C11571	Pre-cast Attachment Sleeve - System C	-	0.10kg

Concrete Frame Solutions

With a wide range of flexible solutions combining all the benefits of edge protection pre-planning with the versatility of a proven, easy to manage barrier system that saves time and money on-site.

Timber Beam Attachment MK2

Used to attach beams and proprietary forming systems.

Code	Description	Thickness	Weight
440100	Timber Beam Attachment MK2	60mm	4.00kg
441100	Timber Beam Attachment MK2	40mm	3.80kg

Multifoot - System C

Most commonly used at the slab edge, the three points of support allow accurate installation on an uneaven surface.

Code	Description	Size	Weight
429000	Multifoot - System C	-	1.60kg

Multi Clamp MK2 - System C

Versatile attachment, can clamp vertically or horizontally over a thickness ranging from 20mm up to 620mm using the reversible jaw.

Code	Description	Size	Weight
453700	Multi Clamp MK2 - System C	850mm x 270mm	7.90kg

Concrete Frame Solutions

Verti Clamp - System C

Clamps to narrow structures from 0-150mm thick, such as steel sheets. The heavy-duty course thread is quick to set and tightened using a hammer.

Code	Description	Size	Weight
456000	Verti Clamp - System C	-	5.10kg

Balcony Attachment - System C

Designed to use case in chanels or the fixings for permanent handrails.

Code	Description	Size	Weight
460000	Balcony Attachment - System C	320mm x 179mm	1.60kg

Stair Attachment - System C

Used to support systems on stairs, permitting access to the top of the stair unit.

Code	Description	Size	Weight
420200	Stair Attachment - System C	-	2.70kg

Staircase Edge Protection

The varied nature of the stairs, landings, and returns, often required many cut tubes, sharp ends, and much purpose-built protection. The Steel Mesh Barrier Stair has been designed to solve these problems, offering a systemised solution to integrate with the Steel Mesh Barrier system.

Stair Attachment

Used to support systems on stairs, permitting access to the top of the stair unit.

Code	Description	Size	Weight
420200	Stair Attachment - System C	-	2.70kg

Multiclamp Adaptor

Versatile attachment that works in conjunction with Multiclamp to provide clamp on solution to the staircase.
Replacement body for Multiclamp.

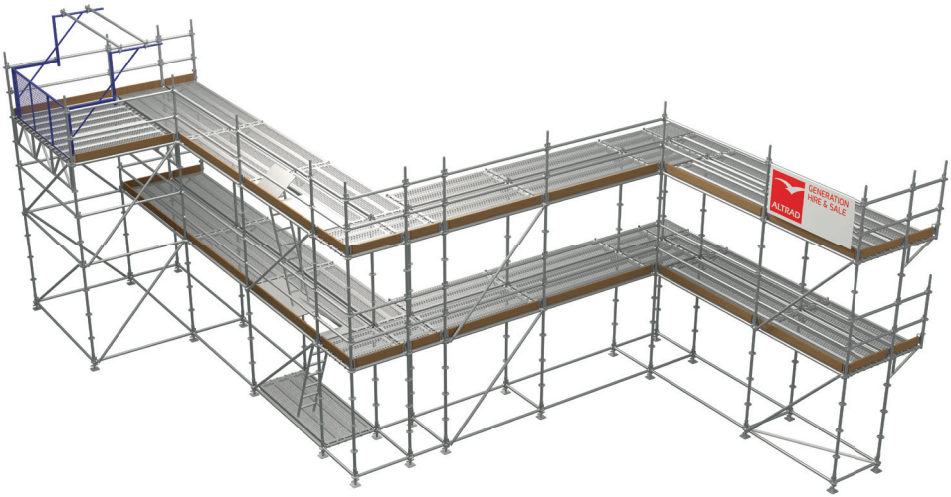
Code	Description	Size	Weight
451500	Multiclamp Adaptor 30 ° - System C	-	1.20Kg

Multifoot

Most commonly used at the slab edge, the three points of support allow accurate installation on an uneven surface.

Code	Description	Size	Weight
429000	Multifoot - System C	-	1.60kg

Notes


ALTRAD
GENERATION
HIRE & SALE

System Scaffold

Extendable Transom & Bracket

BRIO - Modular Scaffolding

Futuro Ring System Scaffold

UNI-Roof Temporary Roofing System

Estimating Software

Temporary Roof Sheeting

Ranger™ Stair

Kwikstage

Extendable Intermediate Transom

A unique solution for the creation of boarded platforms within traditional tube and fitting scaffolds. Altrad Generation Extendable Intermediate Transoms combines three loose components into one easy to assemble item that is suitable for use with traditional tube and fittings, and with Readylok transoms.

Extendable Intermediate Transoms are suitable for the following scaffold types:

- Facade Access
- Inspection
- Lightweight & Medium
- Heavy Duty Scaffolds
- 1, 2, 3 inside boards loaded
- 4 or 5 board wide scaffolds

Code	Description	Weight
CUP008	Extendable Intermediate Transom 866mm (4+3)	9.00kg
591049	Extendable Intermediate Transom 1098mm (5+3)	9.90kg
CUP005	Extendable Transom 1.3m (5+3) Genlok with Stub	9.90kg

Extendable Hop-Up Bracket

Altrad Generation Extendable Hop Bracket complements tube and fittings and Readylok Transoms. The bracket allows a two or three inside intermediate board platform to be constructed, also allowing the benefits of the speed of adaptation of the intermediate inside platform thus saving labour.

2 + 1 Extendable Hop-Up Bracket

Code	Description	Weight
CUP009	Extendable Hop-Up Bracket	6.55kg

BRIO - Modular Scaffolding

Features:

BRIO Modular Scaffolding covers the different configurations and applications required in the construction industry.

Used as a workplace, protection, access or support, for newbuilds and restoration work.

It is a profitable system that can be used in all kinds of fields, such as construction, industry, energy, navy or leisure and entertainment.

The effective galvanized steel design ensures fast, simple and intuitive assembly, with high load-bearing capacity. It makes the scaffolding highly rigid and stable.

- BRIO is certified according to European standards EN 12810-1/2 and EN 12811-1/2/3.
- Based on vertical standards with nodes every 50 cm that house the various components.
- Usual façade scaffolding widths: 0.7 and 1.02, with 2 m in height between platforms.
- Modules of: 0.35; 0.7; 1.02; 1.5; 2; 2.5 and 3 m in width.
- Class 4, 5 or 6 platforms according to EN 12810-1/2 and EN 12811-1/2/3.

Quick & Easy Assembly

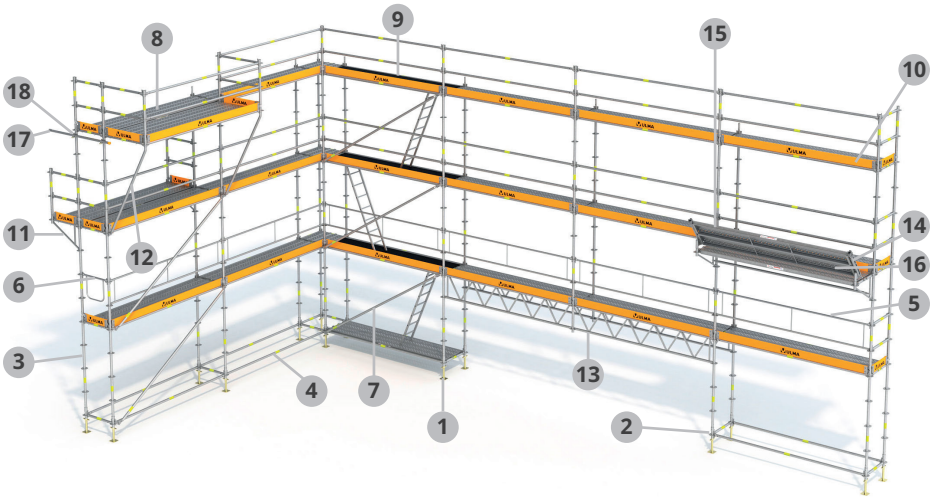
1. Hook in the horizontal ledger

2. Insert the wedge

3. Fix the wedge

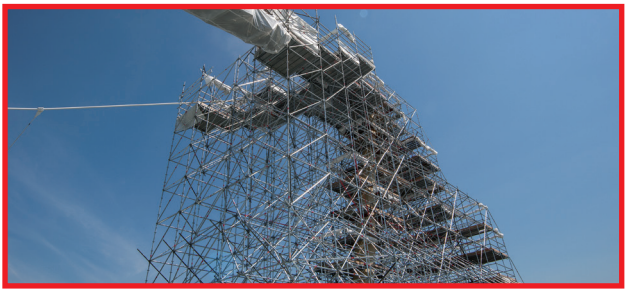
4. Stand and ledger are joined

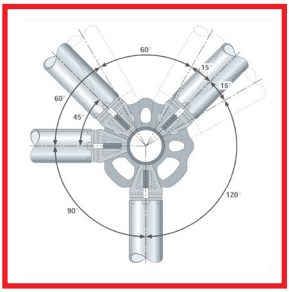
BRIO - Modular Scaffolding



1. Screw Jack w. Plate
2. Tube w. Node
3. Verticle Stand
4. Ledger
5. Handrail
6. Corner Guardrail
7. Diagonal Brace
8. Platform
9. Trapdoor Platform
10. Toeboard
11. Console
12. Cantilever
13. Bridging Beam
14. Cover Shield
15. Shield Ledger
16. Sheet
17. Tie
18. Right Angle Coupler

Futuro Ring System Scaffold





The Altrad group have been manufacturing the Futuro Ring System for over 20 years, with German engineering to the highest standards this hot dipped galvanised system meets with European standards EN12810 and EN12811-1.

Audited by the NASC, Futuro meets or exceeds the criteria to satisfy the code of practice for proprietary system scaffolds within Ireland. Futuro is the ideal choice for domestic/ commercial / industrial and civil applications.

Due to the eight available connection points per optimised disc, the flexibility of this system with its in-built loading class capability and high point loading capacities makes Futuro capable of dealing with all aspects of the construction and infrastructure markets.

Utilising the galvanised steel perforated decks along with drop forged claws and integrated deck retainers the Futuro Ring System offers a range of up to eight bay lengths, this enables maximum accuracy on virtually any project.

Along with a possible saving of up to 60% on erection time against traditional tube and fitting and significant reduction in the manual handling of quantities and weights, the tubular support system benefits from using various components for multiple tasks giving a further reduction in components required on site.

Please Note:
Altrad Futuro Ring System (Tubular Support) is available for hire & sale within Ireland.
Altrad Futuro U-System (U Support) is available on a sale only basis.
Please contact your nearest Altrad Generation branch for further information and availability.

Futuro Ring System Scaffold supplied by Generation UK Ltd has been audited by the NASC and has met the criteria to satisfy the NASC Code of Practice for proprietary System Scaffold Systems.

Futuro Ring System Scaffold has been independently tested and has met or exceeded the criteria for Quality, Technical Specification and Compliance to BS EN 12810 and BS EN 12811.

NASC
National Access & Scaffolding Confederation

Futuro Ring System Scaffold

Over 60% Quicker to Erect
Advanced technology; self-securing assembly eliminates the need for bolting; automatic right angles and few basic components make the erection of Futuro over 60% quicker than traditional tube and fittings. The system scaffold creates a simple, logical assembly sequence and permits the use of semi-skilled workers. By levelling the base lift you will not be required to level any further lifts. When compared to tube and fitting, whereby every time a component is added the scaffolder has to level a further 6 times. Futuro allows the same labour to erect up to 2.5 times more projects.

Over 28% Lighter
The reduction in material weight in comparison to tube and fittings allows for faster assembly and less fatigue.

100% Versatile
A few basic components - standard, ledger diagonal brace and deck - form the basis for limitless use. Altrad Generation also stock an extensive range of Futuro components to cater for a scaffolders every use.

100% Flexible
The use of the small connection gaps for connecting horizontals allows a 90° angle to be created between them. The larger gaps allow angles between 30° and 60° allowing practically any angle to be set and shape around any construction, even in areas where access is restricted.

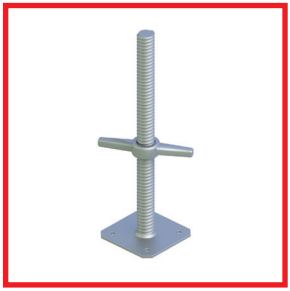
60% Less Losses
Hot-dipped galvanised steel components and the flat shape of the connection plate means no motar, dirt, ice, grit, blasting debris etc. can accumulate ultimately allowing for a maintenance free operation.

Simpler Storage
As well as the advantages during assembly and its high reserves of safety, the shape of the socket plates also has storage benefits. The stacked volume of the standards is about 5% smaller than other ring scaffolds and has a higher resistance to plates rolling away therefore, reducing the number of losses and potential accidents.

Quality and Safety
High quality standards characterise the whole modular system. In-house inspection, third party supervision and the requirements of DIN EN ISO 9001, latest standard, guarantee best performance. The relevant regulations and generally recognised codes of practice must always be observed. In particular:
- The British approval BS EN12810 and BS EN12811-1
- Industrial safety regulations as well as further regulations

One System - Two Approvals
Futuro is the innovative modular scaffolding system with two approvals from the German Institut für Bautechnik, Berlin. The approval Z-8.22-841 commits the erection of the exclusive modular scaffold Futuro; the approval Z-8.22.855 regulates the erection with elements approved by Z-8.22-64. Futuro is approved in several European countries and meets all requirements of BS EN 12810.

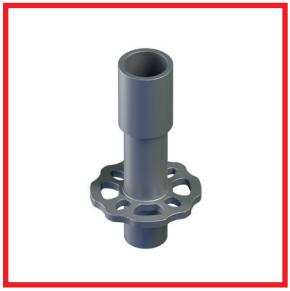
Futuro Ring System Scaffold



6 Ton Adjustable Base Jacks

Used at the base of the scaffolding for the levelling of the kicker lift in conjunction with the starting collar.

Code	Description	Weight
207005	6 Ton Base Jack	4.70kg
207200	6 Ton Swivel Base Jack	4.30kg



230mm Starting Collar

Used for the ease of basing out a scaffolding once placed onto the jack, this item can also be used in conjunction with twin headed hop up brackets for standard location points amongst other uses.

Code	Description	Weight
591007	230mm Starting Collar	1.60kg

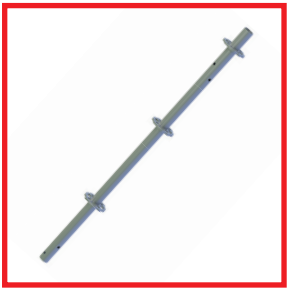
Vertical Standard with fixed spigot

48.3mm x 3.2mm galvanised steel tube with 8 hole connecting discs at 0.5m centres along the total length. The small openings on the connecting disc are predominantly used for ledgers & transom locations with the larger openings being used for splayed scaffolding and vertical braces.

Standards with the option of a bolted spigot are also available upon request.

Code	Description	Weight
591000	0.5m Standard (1 x Disc)	3.20kg
591001	1.0m Standard (2 x Disc)	5.40kg
591002	1.5m Standard (3 x Disc)	7.70kg
591003	2.0m Standard (4 x Disc)	9.90kg
591005	3.0m Standard (6 x Disc)	14.40kg
591006	4.0m Standard (8 x Disc)	18.80kg

Futuro Ring System Scaffold



Vertical Open-Ended Standard

48.3mm x 3.2mm galvanised steel tube with 8 hole connecting discs at 0.5m centres along the total length.

The small openings on the connecting disc are predominantly used for ledgers & transom locations with the larger openings being used for splayed scaffolding and vertical braces.

Code	Description	Weight
591021	0.5m Open Ended Standard (1 x Disc)	2.20kg
591022	1.0m Open Ended Standard (2 x Disc)	4.50kg
591023	1.5m Open Ended standard (3 x Disc)	6.70kg
591024	2.0m Open Ended standard (4 x Disc)	8.90kg
591025	2.5m Open Ended standard (5 x Disc)	11.20kg
591026	3.0m Open Ended Standard (6 x Disc)	13.40kg

O Ledger / Transom

48.3mm x 3.2mm galvanised steel tube manufactured in a series of lengths from 0.15m - 3.07m, this component is used as a ledger / transom & guardrail.

Lengths up to 1.40m are used as deck supporting transoms due to the tubular nature of the Futuro 'O' system.

Code	Description	Weight
595148	0.15m Ledger / Double Wedge Head	1.10kg
591439	0.39m Ledger / Guardrail	1.80kg
591030	0.42m Ledger / Transom	2.00kg
591031	0.73m Ledger / Transom	3.00kg
591033	1.09m Ledger / Transom	4.10kg
591035	1.40m Ledger / Transom	5.40kg
591037	1.57m Ledger / Transom	5.60kg
591038	2.07m Ledger	7.20kg
591039	2.57m Ledger	8.80kg
591040	3.07m Ledger	10.30kg

Futuro Ring System Scaffold

Double Ledger / Transom (DBL) 210mm Height

This component is used when greater loadings are required or when system decks are to be supported over longer spans. Ideally used when erecting crash decks or creating cantilevered scaffolds.

Code	Description	Weight
591050	1.40m Double Ledger	8.90kg
591043	1.57m Double Ledger	9.90kg
591045	2.07m Double Ledger	13.10kg
591046	2.57m Double Ledger	16.20kg
591047	3.07m Double Ledger	19.40kg

Double Ledger / Transom (DBL) 105mm Height

With a reduced height giving greater head clearance this component is used when greater loadings are required or when system decks are to be supported over longer spans. Ideally used when erecting crash decks or creating cantilevered scaffolds.

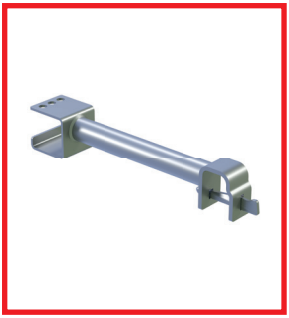
Code	Description	Weight
595195	1.40m Double Ledger	9.20kg
595196	2.07m Double Ledger	13.70kg
595197	2.57m Double Ledger	17.20kg

Ledger to Ledger Intermediate Transom

The intermediate transom enables the splitting of a bay in order to create an opening between decked platforms, this component locates over the ledgers between each set of standards.

This item is also used for the supporting of Timber scaffolding boards when system decks are not used.

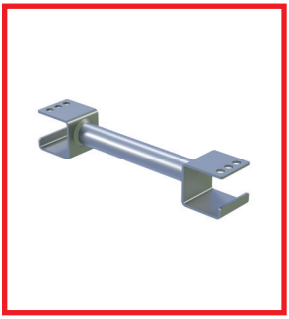
Code	Description	Weight
591049	1.09m Intermediate Transom	5.10kg
591415	1.40m Intermediate Transom	6.20kg
591051	1.57m Intermediate Transom	6.80kg
591559	2.07m Intermediate Transom	10.30kg
591416	2.57m Intermediate Transom	12.50kg
591560	3.07m Intermediate Transom	15.00kg



Ledger to Deck Intermediate Transom

The ledger to deck transom allows for the creation of an opening to the side of a decked platform with one side connecting over the scaffolding ledger and the other side being connected to a steel deck. This item is often used when creating an opening for traditional ladder points through decked platforms.

Code	Description	Weight
591531	1 Deck Support Ledger to Deck Transom	2.70kg
591532	2 Deck Support Ledger to Deck Transom	3.80kg
591533	3 Deck Support Ledger to Deck Transom	5.00kg



Deck to Deck Intermediate Transom

The deck to deck transom allows for the creation of an opening in the middle of a decked platform with both ends of the transom being connected to a steel deck. Ideally used for creating openings in decked platforms for pipe work and construction support beams.

Code	Description	Weight
591535	1 Deck Support Deck to Deck Transom	2.30kg
591536	2 Deck Support Deck to Deck Transom	3.40kg
591537	3 Deck Support Deck to Deck Transom	4.50kg

Futuro Ring System Scaffold

Vertical Brace

48.3mm x 2.7mm galvanised steel tube with a swivel wedge fitting to either end, sometimes referred to as a face brace. Available to fit all bay lengths with up to 4 different height sizes.

Designed to reinforce a scaffolding structure vertically, this item can also be used for supporting scaffolding fans and the erection of cantilevered scaffolds.

Code	Description	Weight
591090	0.5m H x 2.07m L Vertical Brace	7.80kg
591089	1.0m H x 1.09m L Vertical Brace	6.00kg
591550	1.0m H x 1.40m L Vertical Brace	6.80kg
591084	1.0m H x 1.57m L Vertical Brace	7.10kg
591085	1.0m H x 2.07m L Vertical Brace	8.40kg
591086	1.0m H x 2.57m L Vertical Brace	9.80kg
591087	1.0m H x 3.07m L Vertical Brace	11.20kg
591078	1.5m H x 1.57m L Vertical Brace	8.10kg
591079	1.5m H x 2.07m L Vertical Brace	9.20kg
591080	1.5m H x 2.57m L Vertical Brace	10.50kg
591081	1.5m H x 3.07m L Vertical Brace	11.80kg
591071	2.0m H x 0.73m L Vertical Brace	8.20kg
591072	2.0m H x 1.09m L Vertical Brace	8.50kg
591073	2.0m H x 1.40m L Vertical Brace	9.00kg
591074	2.0m H x 1.57m L Vertical Brace	9.30kg
591075	2.0m H x 2.07m L Vertical Brace	10.30kg
591076	2.0m H x 2.57m L Vertical Brace	11.40kg
591077	2.0m H x 3.07m L Vertical Brace	12.60kg

Horizontal Brace (Non-Square Bay with Angled Wedge Head)

48.3mm x 3.2mm galvanised steel tube with fixed angled wedge heads to either end, used to create rigidity in the horizontal plane when decks are not required.

Also used for the basing out as this item aligns the scaffolding structure at right angles so that the bays are square.

Code	Description	Weight
591096	2.57m x 1.09m Horizontal Brace	9.60kg
591100	3.07m x 1.09m Horizontal Brace	11.10kg
591540	3.07m x 1.40m Horizontal Brace	11.40kg

Plan Brace (Square Bay with Std in-Line Wedge Head)

48.3mm x 3.2mm Galvanised Steel Tube with fixed wedge heads to either end, used to create rigidity in the horizontal plane when decks are not required.

Also used for the basing out as this item aligns the scaffolding structure at right angles so that the bays are square.

Code	Description	Weight
591106	2.57m x 2.57m Plan Brace	12.20kg

Futuro Ring System Scaffold

320mm O System Ledger Deck (Standard Deck)

A high load bearing steel perforated deck, fully galvanised with drop forged connecting claws to fit 48.3mm diameter scaffolding tube. Integrated anti-lift & anti-tilt devices with a minimum 5kN/m² working load capacity.

Code	Description	Weight
591107	0.73m x 320mm Steel Deck (class 6)	7.20kg
591108	1.09m x 320mm Steel Deck (class 6)	9.30kg
591109	1.40m x 320mm Steel Deck (class 6)	11.20kg
591110	1.57m x 320mm Steel Deck (class 6)	12.30kg
591111	2.07m x 320mm Steel Deck (class 6)	15.30kg
591112	2.57m x 320mm Steel Deck (class 5)	18.30kg
591113	3.07m x 320mm Steel Deck (class 4)	21.30kg

190mm O System Ledger Deck (Skinny Deck)

A high load bearing steel perforated deck, fully galvanised with drop forged connecting claws to fit 48.3mm diameter scaffolding tube. Integrated anti-lift & anti-tilt devices with a minimum 5kN/m² working load capacity.

Code	Description	Weight
591186	0.73m x 190mm Steel Deck (class 6)	4.80kg
591114	1.09m x 190mm Steel Deck (class 6)	7.30kg
591139	1.40m x 190mm Steel Deck (class 6)	8.70kg
591115	1.57m x 190mm Steel Deck (class 6)	9.50kg
591116	2.07m x 190mm Steel Deck (class 6)	11.70kg
591117	2.57m x 190mm Steel Deck (class 5)	14.10kg
591118	3.07m x 190mm Steel Deck (class 4)	16.40kg

Futuro Ring System Scaffold

Alloy Ladder Deck

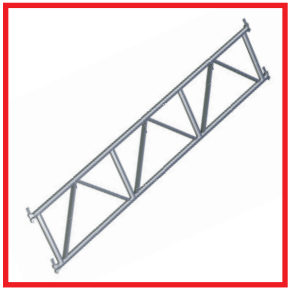
Full aluminium frame & deck with drop forged connecting claws to fit 48.3mm diameter scaffolding tube, complete with fully integrated drop-down ladder, 640mm wide platform will replace 2 x 320mm Steel decks.

Code	Description	Weight
591119	2.57m x 640mm Alloy Ladder Deck	29.60kg
591120	3.07m x 640mm Alloy Ladder Deck	33.30kg

Corner Infill Deck

A galvanised steel deck that works in conjunction with the Hop-Up Bracket at a 90° internal or external corner.

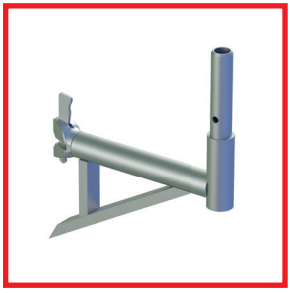
Code	Description	Weight
591351	1 Board Corner Infill Deck	5.70kg
591352	2 Board Corner Infill Deck	12.30kg



O System 4 Wedge Head Steel Lattice Beam

Used for bridging clear spans of up to 6.14m between two sets of standards. Commonly used on system loading bays or when cantilevering out from buildings.

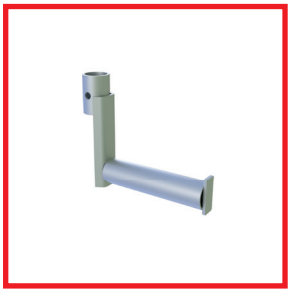
Code	Description	Weight
591571	2.57m x 0.5m Steel Lattice Beam 4 HD	29.70kg
595150	3.07m x 0.5m Steel Lattice Beam 4 HD	37.10kg
595135	4.14m x 0.5m Steel Lattice Beam 4 HD	49.20kg
595153	6.14m x 0.5m Steel Lattice Beam 4 HD	69.10kg



0.39m & 0.73m Hop Up Bracket with Spigot

Used to extend the depth of a scaffold by 1 x 320mm deck / 2 x 320mm deck. If required the spigot will then allow for the fitting of a 1m standard with 2 x 0.39m / 0.73m guardrails.

Code	Description	Weight
591179	0.39m Hop Up Bracket with Spigot	3.90kg
591420	0.73m Hop Up Bracket with Spigot	5.90kg



Hop Up Extension Bracket (190mm)

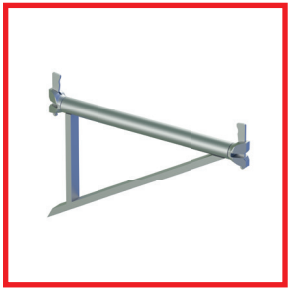
Used in conjunction with the 0.39m / 0.73m hop up bracket with spigot. The bracket slots down over the hop up bracket spigot allowing for a 190mm deck extension to be added.

Code	Description	Weight
591177	190mm Hop Up Extension Bracket	0.85kg

Variable Hop Up Bracket (1 & 2 Deck)

Used to extend the depth of a scaffold, the variable hop-up bracket can be used as a 1 x 320mm deck or a 2 x 320mm deck support. By removing the wedge head and re-inserting in the opposite direction the bracket can very easily be adapted to do the job of two separate components.

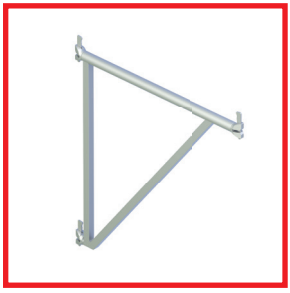
Code	Description	Weight
591182	Variable Hop Up Bracket 1 & 2 Deck	5.60kg



0.73m Double Wedge Head Hop Up Bracket

Used to extend the depth of a scaffold by 2 x 320mm decks, due to having a double wedge head this item can also be used as a ledger / transom or an alloy stair flight support.

Code	Description	Weight
591181	0.73m Hop Up Bracket 2 HD	4.90kg



1.09m Cantilever Bracket

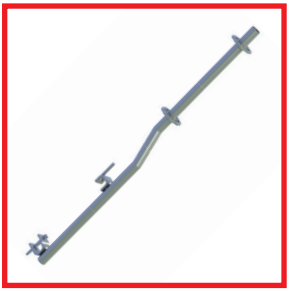
Used to extend the depth or length of a scaffold by 3 x 320mm decks, with 3 wedge heads this bracket is attached to the standards at two points with the third wedge head allowing for starting collars or vertical standards to be attached.

Code	Description	Weight
591180	1.09m Cantilever Bracket with 3 HD	9.70kg

Timber Toe Board

150mm high Timber Toe Board with galvanised steel fixing plates to either end.

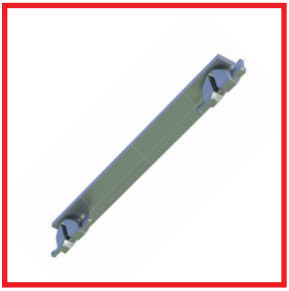
Code	Description	Weight
591149	0.42m x 150mm Timber Toe Board	0.90kg
591150	0.73m x 150mm Timber Toe Board	1.60kg
591151	1.09m x 150mm Timber Toe Board	2.30kg
591152	1.40m x 150mm Timber Toe Board	2.80kg
591153	1.57m x 150mm Timber Toe Board	3.10kg
591154	2.07m x 150mm Timber Toe Board	4.10kg
591155	2.57m x 150mm Timber Toe Board	5.00kg
591156	3.07m x 150mm Timber Toe Board	5.90kg



Guardrail Post Off-Set

Used to create access points mid bay, a second ledger must be installed below the decked lift so that the post can be attached at two points. This will enable the fitting of double guardrails and a ladder safety gate.

Code	Description	Weight
591167	Guardrail Post / Ladder Gate Post Off-set	8.10kg

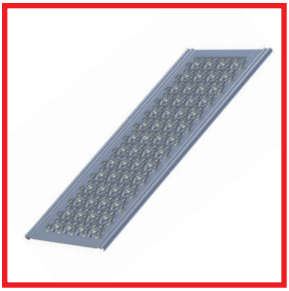


Suspended Scaffold Connector

The Suspended Scaffold Connector is designed for bridging the connection of two standards, always used in pairs this component is ideally used when a scaffolding structure is to be suspended or craned into position. This fitting creates a positive connection to the discs either side of the joint in order to combat the tension that will be placed upon it.

Code	Description	Weight
591029	Scaffold Connector 500mm	3.00kg

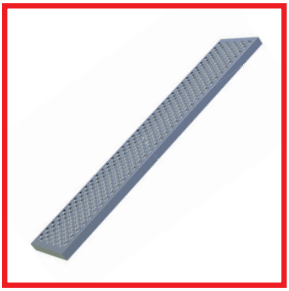
Futuro Ring System Scaffold



Steel Gap Cover Plate

A perforated 320mm x 12.5mm steel plate for bridging gaps between decks of up to 140mm, this plate is held in place with the aid of over-sized plastic screw plugs.

Code	Description	Weight
595157	0.73m x 320mm Gap Cover Plate	2.40kg
595158	1.09m x 320mm Gap Cover Plate	3.40kg
595159	1.57m x 320mm Gap Cover Plate	5.40kg
595160	2.07m x 320mm Gap Cover Plate	7.40kg
595161	2.57m x 320mm Gap Cover Plate	9.40kg
595162	3.07m x 320mm Gap Cover Plate	11.40kg

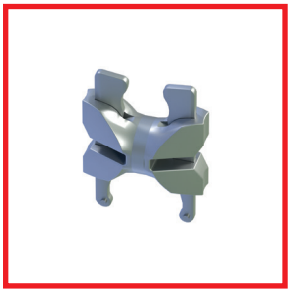


Steel Gap Cover Deck

A perforated 320mm x 25mm steel deck for bridging gaps between decks, this plate is held in place with the aid of over-sized plastic screw plugs.

Code	Description	Weight
595166	1.09m x 320mm Gap Cover Deck	6.44kg

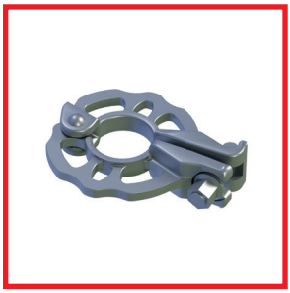
Futuro Ring System Scaffold



0.15m Ledger / Double Wedge Head Fitting

Used for connecting standards together for double legged scaffolding or off setting standards in order to avoid obstructions when erecting, giving a centre to centre of standard measurement of 154mm.

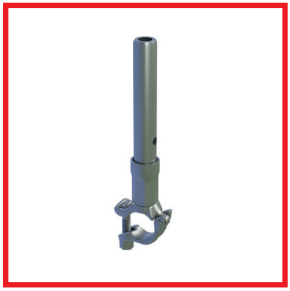
Code	Description	Weight
595148	0.15m Ledger / Double Wedge Head	1.10kg



Clampable Disc Coupler Fitting (22mm)

This fitting allows for the connection of up to six ledgers or braces at any point along a Futuro standard.

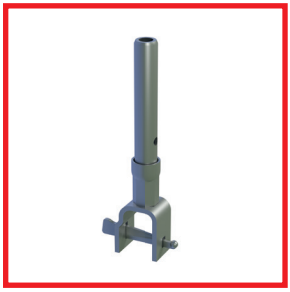
Code	Description	Weight
591440	Clampable Disc Coupler Fitting	1.10kg



Support Spigot with Fitting (22mm)

A 300mm spigot with half coupler fitting, generally used when attached to a lattice beam or ledger to allow for the connection of a standard at any chosen point.

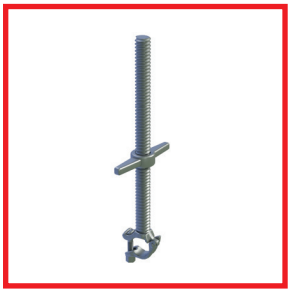
Code	Description	Weight
591220	300mm Support Spigot with Fitting	1.60kg



Support Spigot with Wedge

A 300mm spigot with a wedge connection, this spigot is used to fix a standard to a steel lattice beam at pre-determined positions that are located along the top cord of the beam. Due to the wedge fitting locating through the top cord of the beam the standards are un-able to swivel at the joint.

Code	Description	Weight
591222	300mm Support Spigot with Wedge	2.10kg



Threaded Spindle with Fitting (22mm)

A 500mm adjustable spindle that enables the levelling of standards when working from un-even starting points.

Code	Description	Weight
591318	500mm Threaded Spindle with Fitting	2.90kg

Toe Board Bracket

This fitting is attached to the standards and hooked over the toe board to enable a more permanent and secure fixing connection.

Code	Description	Weight
591430	Toe Board Bracket Fitting	1.20kg

Wedge with Swivel Fitting (22mm)

Used for attaching traditional scaffold tube to the disc of the standard, allows the conversion of scaffolding tube into vertical braces or the tying-in of standards to ledgers on fly past returns.

Code	Description	Weight
591301	Wedge with Swivel Fitting	1.20kg

Distance Coupler Fitting (22mm)

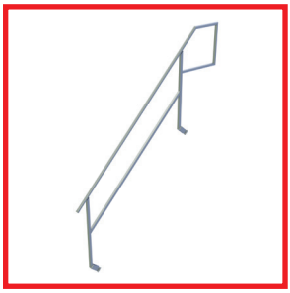
Used for attaching two standards together with a distance of 85mm. This fitting allows the indents of the discs on the standard to sit tight up against the other standard, with the discs being positioned at different heights.

Code	Description	Weight
591291	Distance Coupler Fitting	1.40kg

Aluminium Staircase Unit

Complete with upper and lower landings, drop forged connecting claws to fit 48.3mm diameter scaffolding tube. This 640mm wide staircase has a loading capacity of 2kM/m².

Code	Description	Weight
591255	1.00m x 640mm Alloy Staircase	13.70kg
591256	2.57m x 640mm Alloy Staircase	30.00kg
591258	3.07m x 640mm Alloy Staircase	35.00kg



Stair Head Guardrail (Double)

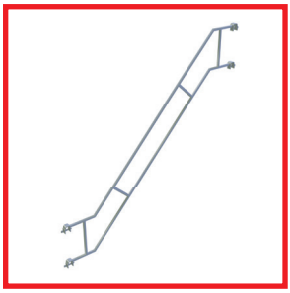
This guard rail frame is attached to the inside stringer of the top flight of stairs to create a safe fixed exit route.

Code	Description	Weight
591281	Stair Head Guardrail Frame	14.70kg

Stair Outer Guardrail (Single Rail Option)

Two guardrails are required per staircase unit, these are fixed top and bottom to the discs of the outside standards.

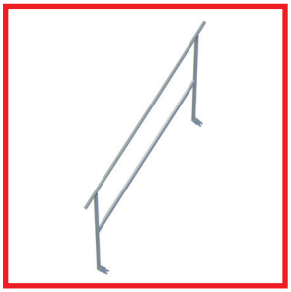
Code	Description	Weight
591269	3.07m x 2m Single Outer Guardrail	13.40kg



Stair Outer Guardrail Frame (Double Rail Option)

One guardrail frame is required per staircase unit, this is attached over the landing handrails top and bottom.

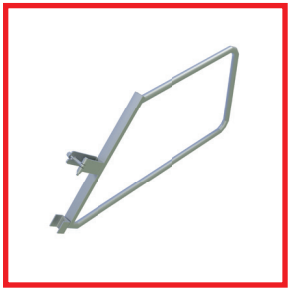
Code	Description	Weight
591270	2.57m x 2.00m Double Outer Guardrail	22.80kg
591271	3.07m x 2.00m Double Outer Guardrail	25.10kg



Stair Inner Guardrail (Double)

This guard rail frame is attached to the inside stringer of each staircase unit.

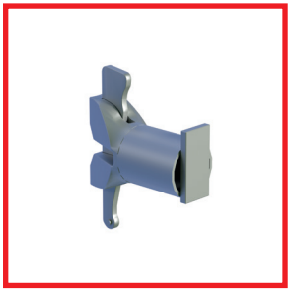
Code	Description	Weight
591283	Inner Guardrail 2.57m & 3.07m x 2.00m	14.80kg



Stair Well Guardrail Frame

This guardrail frame can be attached to the underside of a alloy staircase unit to close off the void below.

Code	Description	Weight
595184	Stair well Guardrail Frame	4.60kg



Staircase Guardrail Adaptor

Used in pairs and attached to the outer standard of the stair tower to enable the fitting of the stair outer guardrail frame.

Code	Description	Weight
591568	Staircase Guardrail Adaptor	0.95kg

Futuro Ring System Scaffold

Loading Platforms

A loading tower is a reinforced scaffolding structure for the loading and storage of material and equipment whose weight would exceed the safe working load of the access scaffold to which it is connected (TG20).

Loading towers must always be designed by a competent scaffolding engineer and erected In accordance with the design and client requirements.

Altrad Generation offer a number of loading tower solutions depending upon site requirements and designer specifications.

Futuro Tower Loading Options ~

Loading towers requiring greater capacity can be designed upon request.

6kM/m^2

8kM/m^2

10kM/m^2

15kM/m^2

Futuro Tower Dimension Options ~

2.57m x 2.07m

2.57m x 2.57m

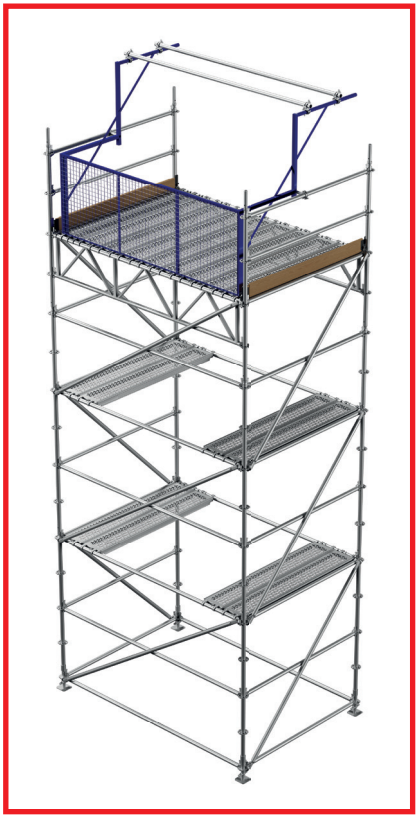
3.07m x 2.07m

3.07m x 2.45m

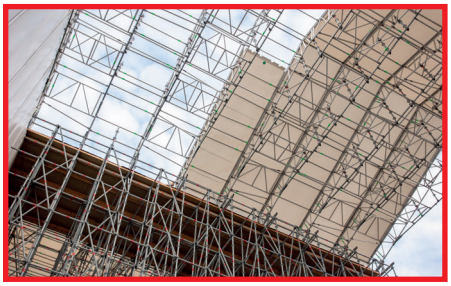
4.14m x 2.07m

4.14m x 4.14m

Please Note ~ The loading tower options above are standard weights and dimensions for more information regarding loading tower options please contact your local Altrad Generation branch.



UNI Roof Temporary Roofing System



The UNI Roof Roofing System is designed for use on short to medium term temporary roofing contracts during which it will be exposed to mild or moderate weather conditions.

Using a custom made range of aluminium unit beams the roof can be erected in either mono or duo pitch configurations. If required, the system covering can be used on any type of beam.

Versatile

- Fully modular roofing system in a range of sizes, will fit any project.
- Fits on any scaffolding system or tube and fittings, maximum on-site flexibility and stock utilisation.
- Multi-function beams with separate tracking use beams for other purposes when roof is idle.
- Mono or duo-pitch roof configurations
- From a simple roof covering to fully modular
  roofing system in a range of sizes will fit any project.
- Sheets can be terminated at any track joint, allows split or staggered bays and copes with over length roof beams.
- Individual bays easily opened, allows access for craned materials.
- Can be rail-mounted on steel rollers, whole sections of building can be uncovered.
- The roof bay sizes are identical to the Futuro Scaffold System for a very easy method of complete encapsulation to give a seamless integration that eliminates complicated load paths and provides a clean structural solution utilising standard components.

Safe

- Durable PVC sheeting firmly secured in Keder tracking, safe erection from below.
- Lightweight aluminium beams and bracing, erect in situ or at height without the need for craneage.
- Superior strength and durability, proven even in the worst weather conditions.

Simple

- Minimal number of different parts, simple logical assembly and easy stocking.
- Unique connection technology for tracking requires no couplers or pins, tracks slide into position, simple, safe and quick assembly in situ.
- Loose components eliminated, all parts snap together without bolts.

High Performance

- Clear spans up to 60m (65m with extra design measures), exceeds most competitors.
- Unique rubber seal between tracks, seals and locates perfectly while allowing gap between tracks for sheeting termination.
- Special spring-loaded track tensioners keep roof perfectly weatherproof at all times.
- Compact ridge beam, allows tailored roof profile and reduced scaffold mass 18 degree pitch, efficient water dispersal and no ponding.

Installation

For information on installation refer to the UNI Roof User Guide or alternatively watch our UNI Roof installation videos on Youtube by searching Altrad Generation.

Or Visit: **https://genuk.ltd/youtube**

YouTube

UNI Roof Temporary Roofing System

The use of innovative intermediate roller brace coupler makes split bays very easy to achieve together with the deeply-shrouded track spigot; this has previously been difficult if not impossible with Keder-style roof coverings.

By positioning the coupler at the end of a track section and easing open the joint, the Keder sheet on one side can be brought out of the track and terminated while retaining perfect weather-proofing. The coupler provides a housing for the roller brace, so ensuring easy sheet feeding and tensioning.

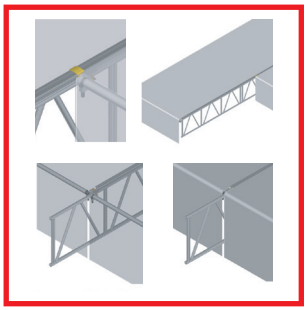
The intermediate roller brace coupler also accommodates over length beams, so that existing stocks of beams can be fully utilised. In this case the coupler is used with its built-in-track stop to retain the track sections, thereby maintaining weather resistance at the joints. This feature also allows sheeting to be pulled down the face of the supporting scaffold without excessive overhangs at the eaves. Sheeting installation is easier, as this may be done from the scaffold without the need for a special cantilever erection platform to be constructed.

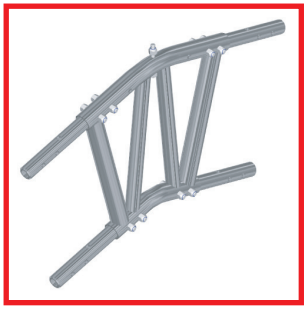
The system shows another side to its versatility when complete bays are removed to allow craning of bulky materials through the roof covering.

Only one-in-five bays are fully-braced on a typical roof, the other bays being infills using only horizontal braces. In order to allow removal, the upper braces in the designated bay(s) are mounted upside-down with the tracking button facing down. This allows these braces to be removed when required to make free access through the roof.

The massive strength of the claws, with their heat-treated LM25 bodies and oversize latch pin, allow them to function in either orientation.

The system can be used as a roof covering for any available beams, although the full benefits of using custom roof beams (strength, lightness, systematic bracing intervals etc) will be lost. We have developed special ridge beams and tracks for alternative beams, including a 15 degree ridge connector which fits the majority of 45cm beams.





This has a bolt-on adaptor for a ridge purlin and fixing beams, allowing alternative use with other popular fixed sheet roof equipment.

UNI Roof Temporary Roofing System

450mm High Capacity Alloy Beam

The Altrad Generation Aluminium 450mm Beam has been the market leader in Europe for more than 20 years. It provides significant time and cost savings across a whole range of scaffold structures.

Suspended or mobile platforms, birdcages, protection-decks bridges or temporary roofs are ideal applications for the Aluminium 450mm Beam.

The Aluminium 450mm Beam has been specifically designed to provide the highest possible UDL. The unique design allows connection directly to the node point between the diagonals, achieving maximum loading. This means, in most applications, the lowest number of beams are required. In addition, beams are quickly and simply joined together with straight connectors using fast action spring clips.

Code	Description	Length	Weight
ALB130	450mm Alloy Beam	4100mm	17.00kg
ALB200	450mm Alloy Beam	6100mm	23.00kg
ALB260	450mm Alloy Beam	8100mm	31.00kg

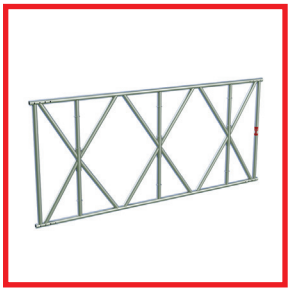
D780mm Alloy Beam

Main structural component for creation of roof spans, also suitable for everyday general purpose applications. The user friendly D78 Beam range offers unrivalled cost to weight ratio and is equally at home in a heavy duty support scaffold or an elegant roofing application

- High strength, low weight and maximum versatility.
- Manufactured in traditional scaffold tube size.
- Vertical posts are provided each 1m on all beam sizes.

Code	Description	Length	Weight
BA0500	D780mm Alloy Beam	500mm	4.30kg
BA1000	D780mm Alloy Beam	1000mm	6.40kg
BA2000	D780mm Alloy Beam	2000mm	11.60kg
BA3000	D780mm Alloy Beam	3000mm	16.90kg
BA4000	D780mm Alloy Beam	4000mm	22.20kg
BA5000	D780mm Alloy Beam	5000mm	27.50kg
BA6000	D780mm Alloy Beam	6000mm	32.80kg

UNI Roof Temporary Roofing System



1.33m Heavy Duty Asterix Alloy Beam

Single Beam Lines, Massive Spans
Multiple beam lines omitted for most applications, greatly simplifies lacing and bracing, massive reduction in fittings and labour.

Special Design, Quality Manufacture
Optimum arrangement of internal members for maximum capacity and consistent node spacing. All beams are closed end for stability and strength, spigot jointed.

Brace with System or Tube & Fittings
Asterix HD Beam depth enables use of system UNI Frames for both plan and section bracing, meaning large beams can be braced in minutes. Alternatively, traditional tube and fittings can be used for both lacing and bracing. Unlike most other scaffold beams on the market today it is permissible to connect scaffold couplers to the posts of Asterix HD.

Permissable Moment – 102.2kN/m

Permissable Shear – 32.6kN

Code	Description	Length	Weight
BD0550	0.55m x 1.33m HD Asterix Alloy Beam	550mm	6.30kg
BD1000	1.0m x 1.33m HD Asterix Alloy Beam	1000mm	13.30kg
BD2000	2.0m x 1.33m HD Asterix Alloy Beam	2000mm	22.60kg
BD3000	3.0m x 1.33m HD Asterix Alloy Beam	3000mm	31.87kg
BD4000	4.0m x 1.33m HD Asterix Alloy Beam	4000mm	41.40kg

UNI Roof Temporary Roofing System

450mm x 18 Degree Alloy Ridge Beam

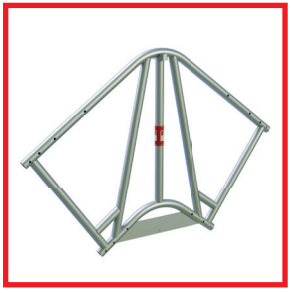
Can be used to form singular 18-degree duo pitched roofs or used in multiples to create a domed structure. Normally supplied complete with 5 hole conversion spigots attached to allow for the connection of multiple 450mm alloy beam types.

Code	Description	Weight
BB0018	450mm x 18° Alloy Ridge Beam	6.40kg

D780mm x 18 Degree Alloy Ridge Beam

Can be used to form singular 18 degree duo pitched roofs or used in multiples to create a domed structure. Requires D780mm 6 Hole Spigots to allow for the jointing to the beam lines.

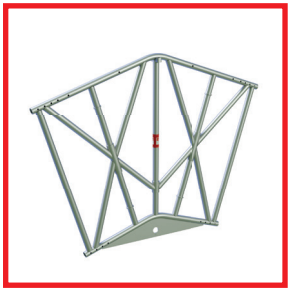
Code	Description	Weight
BA0018	D780mm x 18° Alloy Ridge Beam	7.45kg



D780mm x 36 Degree Alloy Ridge Beam

Can be used for form 36 degree duo pitched roofs to cover tall buildings. Can also be used at the eaves to form building structures and shelters.

Code	Description	Weight
BA0036	D780mm x 36° Alloy Ridge Beam	12.00kg

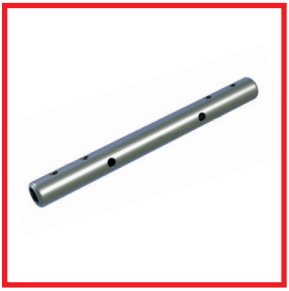


1.33m x 18 Degree Heavy Duty Asterix Alloy Ridge Beam

Can be used singularly to form an 18-degree duo pitch roof or used in multiples to form perfect dome structures.

Code	Description	Weight
BD0018	1.33m x 18° HD Asterix Alloy Ridge Beam	25.00kg

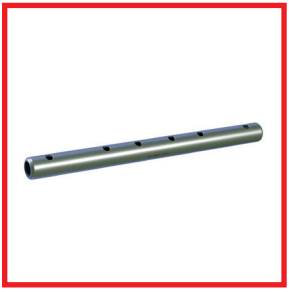
UNI Roof Temporary Roofing System



450mm Beam 6 Hole Spigot

Used for connecting 450mm alloy beams, 2 x 60mm spring pins each side of the joint are required.

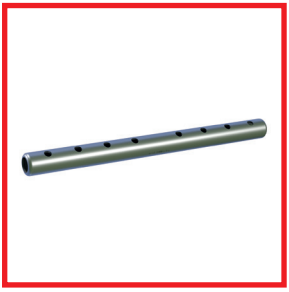
Code	Description	Weight
BS0001	450mm 6 Hole Spigot	1.19kg



D780mm Beam 6 Hole Spigot

Used for connecting the 450mm 18-degree ridge beam to 450mm alloy beams, this spigot is normally pre bolted into the ridge beam then connected to the alloy beam with 2 x 60mm spring pins per joint.

Code	Description	Weight
BS0001	D780mm Beam 6 Hole - Steel Spigot	1.49kg
BS0002	D780mm Beam 6 Hole - Alloy Spigot	0.80kg



1.33m Heavy Duty Asterix Beam 8 Hole Spigot

Used for connecting the 1.33m 18-degree ridge beam to 1.33m alloy beams, also used for connecting 1.33m alloy beams, 4 x 60mm spring pins each side of the joint is required.

Code	Description	Weight
BS0006	1.33m Beam 8 Hole Spigot	1.42kg

UNI Frame

Fitted to the roof beam cords and to the 1.33m Asterix beam posts to provide stiffness and structural integrity. Each corner is fitted with a special tracking button that is used to secure sheet tracking in place when required.

Code	Description	Length	Weight
UK2072	UNI Frame	2070mm	11.22kg
UK2572	UNI Frame	2570mm	12.47kg
UK3072	UNI Frame	3070mm	13.76kg

UNI Roof Temporary Roofing System

UNI Horizontal Brace

A single horizontal brace used for the top and bottom cord lacing and the connection of infill bays. Special button fitted to each end to enable Keder sheet tracking to be installed where required.

Code	Description	Length	Weight
UH2072	UNI Horizontal Brace	2070mm	3.32kg
UH2572	UNI Horizontal Brace	2570mm	3.73kg
UH3072	UNI Horizontal Brace	3070mm	4.24kg

UNI Diagonal Brace

Connects to the top and bottom cords of adjacent beam lines to ensure lateral stability, generally used in conjunction with UNI Frame component.

Code	Description	Length	Weight
UD2198	UNI Diagonal Brace 0.78m	2070mm	3.44kg
UD2674	UNI Diagonal Brace 0.78m	2570mm	3.94kg
UD3158	UNI Diagonal Brace 0.78m	3070mm	4.44kg
UD2110	UNI Diagonal Brace 0.45m	2070mm	3.35kg
UD2603	UNI Diagonal Brace 0.45m	2570mm	3.85kg
UD3093	UNI Diagonal Brace 0.45m	3070mm	4.37kg

UNI Roof Temporary Roofing System

UNI Plan Brace

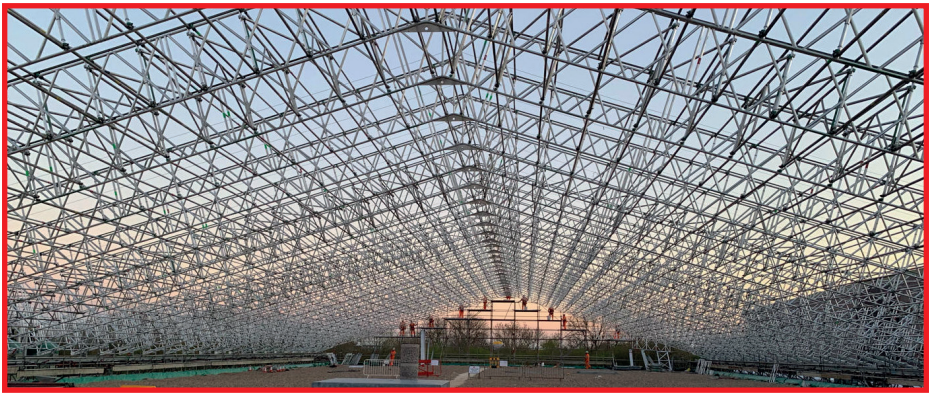
Connects the posts of the adjacent beam lines providing plan stiffness, Used for bracing the 1.33m Asterix beam when used on spanning large distances or on temporary roofs. Claws are facing in opposite directions to allow easy installation and component recognition.

Code	Description	Length	Weight
UP2760	UNI Plan Brace 2.57m	1000mm	3.77kg

UNI Roller Brace

A non-structural component used to even tension applied to the sheeting when ratchet strapped into place. Connects directly into the ridge beam pocket along with the track compressor and intermediate roller brace coupler.

Code	Description	Length	Weight
UR2072	UNI Roller Brace	2070mm	8.80kg
UR2572	UNI Roller Brace	2570mm	11.40kg
UR3072	UNI Roller Brace	3070mm	13.60kg



UNI Roof Temporary Roofing System

UNI 18 Degree Ridge Track 450mm / D78

Sheet tracking section that is connected to the 450mm / D78mm 18deg ridge beam, connected with 2 x 70mm QR pins.

Code	Description	Weight
UT0018	UNI Ridge Track 18° 450 / D78	2.14kg

UNI 36 Degree Ridge Track D78

Sheet tracking section that is connected to the D78mm 18deg ridge beam, connected with 2 x 70mm QR pins, the 36deg profile allows for improved rainwater run-off.

Code	Description	Weight
UT0036	UNI 36° Ridge Track D78	3.62kg

UNI 18 Degree Ridge Track 1.33m Asterix Beam

Sheet tracking section that is connected to the 1.33m 18-degree ridge beam, connected with 4 x 70mm QR pins.

Code	Description	Weight
011192	UNI 18° Ridge Track 1.33m Asterix Beam	4.53kg

UNI Sheet Tracking

Special aluminium Keder profile supplied in variable lengths and connected using a rubber or alloy track spigot.

Code	Description	Length	Weight
UT1000	UNI Sheet Tracking	1000mm	1.80kg
011184	UNI Sheet Tracking	2000mm	3.50kg
UT3000	UNI Sheet Tracking	3000mm	5.30kg
011181	UNI Sheet Tracking	4000mm	7.10kg

UNI Roof Temporary Roofing System

UNI Deep Flow 18 Degree Ridge Track D78

Special aluminium Keder profile provides seamless sheeting throughout the roof lengths. Integrated spigot with a dedicated water channel along with higher profile section providing advanced weatherproofing.

Code	Description	Weight
US0018	Deep Flow 18° Ridge Track D78	3.88kg

UNI Deep Flow 36 Degree Ridge Track D78

The special aluminium Keder profile provides seamless sheeting throughout roof lengths. Integrated spigot with a dedicated water channel along with higher profile section provides advanced weatherproofing.

Code	Description	Weight
US0036	Deep Flow 36° Ridge Track D78	5.97kg

UNI Deep Flow 18 Degree Ridge Track 1.33m Asterix

Special aluminium Keder profile provides seamless sheeting throughout the roof lengths. Integrated spigot with a dedicated water channel, along with higher profile section providing advanced weatherproofing.

Code	Description	Weight
011192	Deep Flow 18° Ridge Track 1.33m Asterix	6.53kg

UNI Deep Flow Sheet Tracking

Integrated spigot with a dedicated water channel, along with higher profile section providing advanced weatherproofing.

Code	Description	Length	Weight
US1000	Deep Flow Sheet Tracking	1000mm	2.65kg
US2000	Deep Flow Sheet Tracking	2000mm	5.23kg
US3000	Deep Flow Sheet Tracking	3000mm	7.82kg
US4000	Deep Flow Sheet Tracking	4000mm	10.44kg

UNI Roof Temporary Roofing System

UNI Deep Flow 1m End Piece With Spigot

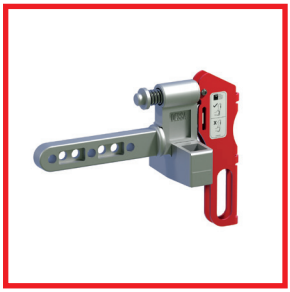
Special colour coded end piece for easy recognition. Required at the top end of Mono pitched roofs when used in conjunction with track compressors.

Code	Description	Length	Weight
US0002	Deep Flow End Piece w. Spigot	1000mm	2.60kg

UNI Deep Flow 1m End Piece No Spigot

Special colour coded end piece for easy recognition. Required at the eaves of Mono and Duo pitched roofs used in conjunction with track compressors.

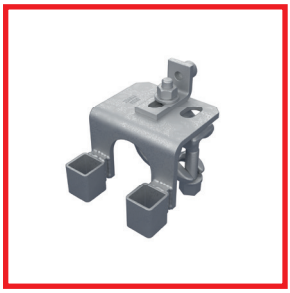
Code	Description	Length	Weight
US0001	Deep Flow End Piece No Spigot	1000mm	2.58kg



UNI Roof Track Compressor

Used at the end of D780mm / 1.33m Asterix alloy beam lines to secure sheet tracking, Maintains 100kg of track compression and allows for the installation of the roller braces, fixed in place with 1 x 60mm spring pin.

Code	Description	Weight
UA0005	UNI Roof Track Compressor	1.55kg

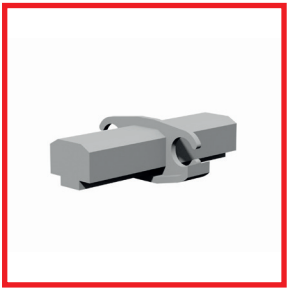


Intermediate Roller Brace Coupler

Used at the end of the Altrad Generation 450mm alloy beam lines to secure sheet tracking. Also used to create staggered bays along with the installation of roller braces.

Code	Description	Weight
UA0001	Intermediate Roller Brace Coupler	1.45kg

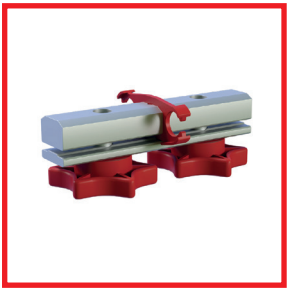
UNI Roof Temporary Roofing System



UNI Sheet Track Rubber Spigot

Used to create a seal when using standard UNI sheet tracking.

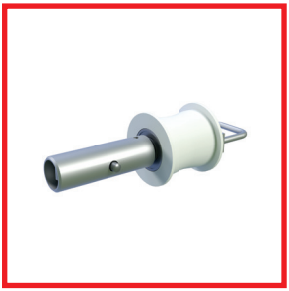
Code	Description	Weight
UA0004	UNI Sheet Track Rubber Spigot	0.09kg



UNI Sheet Track Alloy Spigot

Ensures joint stability between sheet tracking lengths and provides an efficient seal between adjacent track lengths.

Code	Description	Weight
UA0035	UNI Sheet Track Alloy Spigot	0.26kg



UNI Detachable Sheet Tension Bar Wheel

Engages with the sheet tensioning bar, nylon wheels are to be located over the sheet tracking to enable the installation of the sheeting. To be removed after sheet installation and used on the next bay.

Code	Description	Weight
UA0025	UNI Detachable Sheet Tension Bar Wheel	1.51kg

UNI Sheet Pulling Bar Wheel

Used to aid with the process of sheeting roofing structures, the nylon wheels can be adjusted to fit each bay size and run along the length of the sheet tracking.

Code	Description	Weight
UA0025	UNI Sheet Pulling Bar Wheel	8.20kg

UNI Roof Temporary Roofing System

UNI Sheet Tensioning Bar

Special tube lengths to be used in the ends of each roof sheet to enable installation and tensioning, additionally to form a continuous tube at the eaves. Works in conjunction with the detachable tension wheel.

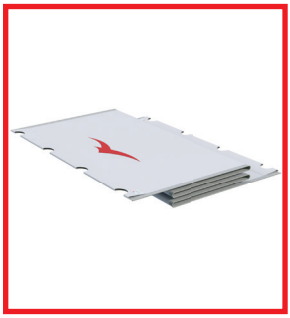
Code	Description	Length	Weight
UB3000	UNI Sheet Tensioning Bar	300mm	0.79kg
UB2072	UNI Sheet Tensioning Bar	2070mm	7.39kg
UB2572	UNI Sheet Tensioning Bar	2570mm	9.26kg
UB3072	UNI Sheet Tensioning Bar	3070mm	11.13kg

UNI Eaves Continuous Tube Connector

Used at the end of the Altrad Generation 450mm alloy beam lines to secure sheet tracking. Also used to create staggered bays along with the installation of roller braces.

Code	Description	Weight
UA0027	Steel Continuous Eaves Connector	1.11kg

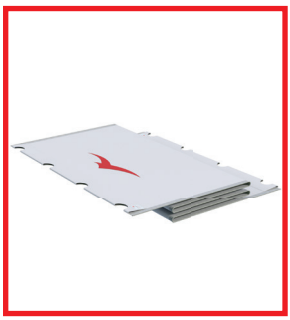
UNI Roof Temporary Roofing System



UNI Roof Heavy Duty 610gsm FR Sheeting

Fabric-based heavy duty flame retardant 610gsm sheeting with 8mm Keder to suit installation into UNI roof sheet tracking, three years anti-yellowing / anti-mildew capability which allows high levels of light to penetrate the roofing structure.

FR BS 7837 TEST 5438/B2
FR-DIN 4102, B1-PASS
BN EN 13501-1 B,S2,D1
Standard widths ~ 2.07m / 2.57m / 3.07m
Made to measure gable end sheeting also available.

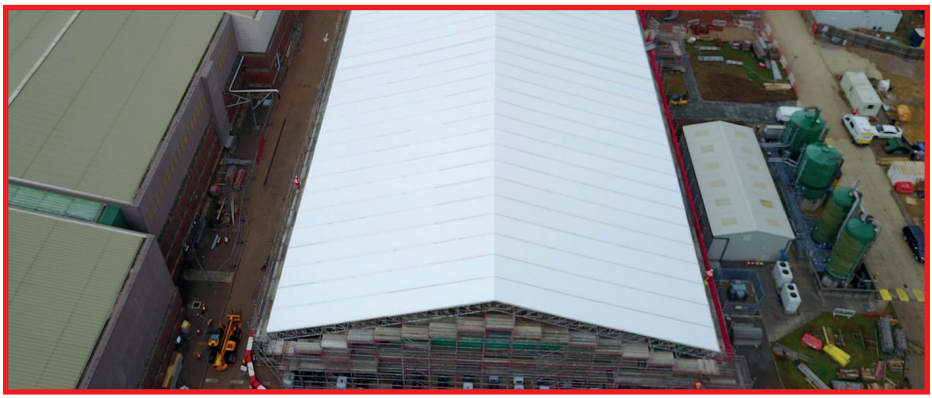


UNI Roof Standard 300gsm Sheeting

PVC coated polyester scrim based sheeting 300gsm with an 8mm Keder to suit installation into UNI roof sheet tracking, translucent in colour allowing high levels of light to penetrate the roofing structure.

BS 7955
Standard widths ~ 2.07m / 2.57m / 3.07m

Please contact your local Altrad Generation supplier for a full listing of available widths and lengths.



Ridge Track QR Pin M12 x 70mm Square

Used to connect alloy ridge tracks to the UNI Roof ridge beams.

Code	Description	Weight
AF0004	Ridge Track QR Pin M12 x 70mm Square	0.10kg

Beam spigot 60mm Spring Clip

Used to fix beam spigots in place when creating beam lines.

Code	Description	Weight
ALB002	Spring Clip 60mm	0.07kg

M12 x 60mm Bolt & M12 Nyloc Nut

Bolt – Used along with M12 Nyloc nut as an alternative to the 60mm spring pin.

Nut – Used along with M12 x 60mm bolt as an alternative to the 60mm spring pin.

Code	Description	Weight
AF0020	Beam Spigot M12 x 60mm Bolt	0.06kg
AF0021	Beam Spigot M12 Nyloc Nut	0.05kg

UNI Roof Beam Supports

Desc.	Beam Support Upright
Wt.	11.28kg
Dim 1	1050mm
Dim 2	250mm
Code	**AA0007**

Compatible with our castors. sysTRAX sliding supports our range of connector plates, this support spur, in conjunction with the inner and outer spurs allow for simple construction of telescopic mobile roofs.

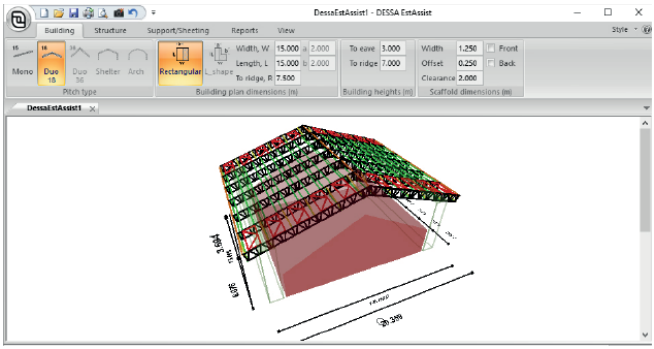
Desc.	Beam Support Spur Inner
Wt.	3.06kg
Dim 1	670mm
Dim 2	110mm
Code	**AA0008**

This inner spur is used in conjunction with outer spur and allows the spur to be located at various locations on the beam bearer.

Desc.	Beam Support Spur Outer
Wt.	3.95kg
Dim 1	760mm
Dim 2	110mm
Code	**AA0009**

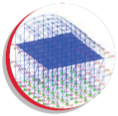
This outer spur is used in conjunction with inner spur and allows the spur to be located at various locations on the beam bearer.

Estimating Software



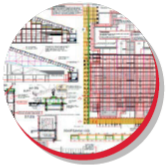
3D estimating software for all Altrad DESSA Roof Systems, allows quick material lists and quotations to be generated and facilitates easy and simple changing of roof length, span, bay size and supports. Windows 10 compatible.

Extensive industry experience at management level as well as within the design team places DESSA in an excellent position for its clients. DESSA offers a full design and check service covering scaffold projects, temporary roofing projects and bespoke product design. This service is backed up with site visits when required and not limited to DESSA products, other proprietary systems and temporary works designs can be also checked.



At DESSA we take full advantage of state of the art engineering software:

- Autodesk Product Design & Manufacturing Collection (includes: AutoCad, AutoCad Mechanical, Inventor, 3ds Max)
- Graitec visual analysis software, full frame 3D.
- Sketchup
- Adobe Creative Cloud (Photoshop, InDesign, After Effects, Premiere Pro)



WE ARE PROUD TO OFFER:

- 2D design drawing creation / submissions / checking
- 3D visuals
- Animations / Training videos
- 2D/3D Structural Frame Analysis complete with calculation reports
- Method Statements / Risk Assessments
- Site visits / Inspections / Approvals

Innovative & Bespoke Concept development

- Needs analysis
- Fabrication drawings
- 3D visuals
- 2D/3D Structural Frame Analysis complete with calculation reports
- Prototyping / Launch

- Full support for system scaffolds / lattice beams / access products
- Compliance checking / testing
- Technical literature support / maintenance
- Commercial / Technical proposals

Watch our UniRoof installation videos on YouTube by searching Altrad Generation

YouTube

- Conduct tailored training courses for bespoke customer requirements
- Optimal combination of classroom and practical workshops
- Follow up testing
- On site training
- Software training
- Instructional videos

Temporary Roof Sheeting

Powerclad® Keder 2000 FR

- Made to customer requirements to fit any modular Keder roof system.
- High tensile strength woven polyester multifilament yarn.
- Double-sided waterproof coating with smooth flat finish.
- Excellent low-temperature characteristics.

Weight	Widths	Keder Rod Dia.	Tensile Strength	Flame Retardant
610gsm	2.07m/ 2.57m/ 3.07m Systems	8mm, 9mm, 10mm	Wrap 2,000 N/50mm Weft 2,000 N/50mm	BS476 Part 12c BS 5867 Part 2B DIN 4102 B1

Powerclad® Keder 1215 FR

- Made to customer requirements to fit any modular Keder roof system.
- High tensile strength woven tape yarn.
- Double-sided waterproof coating with smooth flat finish.
- Excellent low-temperature characteristics.
- Environmentally friendly.
- Colour printing available.

Weight	Widths	Keder Rod Dia.	Tensile Strength	Flame Retardant
300gsm	2.07m/ 2.57m/ 3.07m Systems	8mm, 9mm, 10mm	Wrap 1,100 N/50mm Weft 1,100 N/50mm	LPS 1215 BS 476 Part 12C BS 5867 Part 2B DIN 4102 B1

Powerclad® Keder 1100

- Made to customer requirements to fit any modular Keder roof system.
- High tensile strength woven tape yarn.
- Double-sided waterproof coating with smooth flat finish.
- Excellent low-temperature characteristics.
- Environmentally friendly.
- Colour printing available.

Weight	Widths	Keder Rod Dia.	Tensile Strength	Flame Retardant
300gsm	2.07m/ 2.57m/ 3.07m Systems.	8mm, 9mm, 10mm	Wrap 1,100 N/50mm Weft 1,100 N/50mm	-

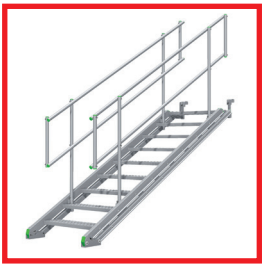
Ranger™ Stair

The Ranger™ Stair is a range of self-contained, pre-assembled aluminium stair units, flat packed, which automatically adjust to a wide range of lift heights, making them ideal for use in tube and fitting scaffolds along with other applications. The Ranger™ Stair is fully compliant with BS EN12811 for all possible configurations.

Code	Description	Weight	Minimum Height (mm)	Maximum Height (mm)
RNG003	Ranger™ Stair, 3 Tread	18.49kg	557	783
RNG006	Ranger™ Stair, 6 Tread	29.66kg	985	1457
RNG009	Ranger™ Stair, 9 Tread	40.71kg	1412	2130
RNG012	Ranger™ Stair, 12 Tread	51.92kg	1840	2804
RNG015	Ranger™ Stair, 15 Tread	62.91kg	2267	3478
RNG018	Ranger™ Stair, 18 Tread	87.80kg	2690	4146

Stair Assemblies

Description	Guardrail Mini	Guardrail Short	Guardrail long
Ranger™ Stair, 3 Tread	2	-	-
Ranger™ Stair, 6 Tread	-	2	-
Ranger™ Stair, 9 Tread	-	-	2
Ranger™ Stair, 12 Tread	-	4	-
Ranger™ Stair, 15 Tread	-	2	2
Ranger™ Stair, 18 Tread	-	-	4



Guardrail Units

Code	Description	Weight
RG0003	Ranger™ Guardrail Mini	5.21kg
RG0001	Ranger™ Guardrail Short	5.90kg
RG0002	Ranger™ Guardrail Long	7.30kg

Connectors

Code	Description	Weight
RB0011	Tube Connector Left	1.36kg
RB0012	Tube Connector Right	1.36kg

Kwikstage

With a wide range of accessories including handrails, board stage-brackets, staircase towers and loading bays, Kwikstage Access provides safe and secure access systems for all requirements. Ledgers and transoms are fixed to the vertical standards of the Kwikstage scaffolding, using captive wedge connections and eliminating the need for transverse bracing. All Joints are self-locating, meaning they have been designed so that even the unskilled labourer can keep erection times and costs to a minimum.

Applications

- General purpose and inspection light or heavy duty access
- Perimeter scaffold
- Birdcage scaffold
- Access for steelfixing/concreting
- Bridging scaffold
- Roof edge protection
- Static towers
- Mobile towers
- Loading platforms
- Stairway towers

Advantages:

No loose fittings

Captive connector means reduced losses and increased productivity compared to traditional tube and fitting scaffold.

Few basic components

The Kwikstage scaffolding contains just a few, basic units that remain compact and with no loose fittings to simplify storage and transportation – as well as preventing damage.

Simple to maintain

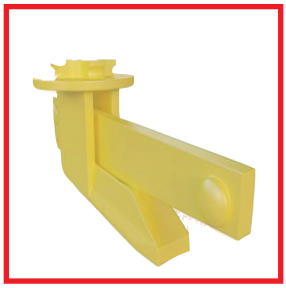
Most connections are made with wedge fixings which are very simple to use leading to longer product life and minimum service costs.

Kwikstage

Desc.	Transom - Infill 4ft
Size	1219mm
Wt.	13.4kg
Code	**KS2605**

Desc.	Gates (pair) - Loading Tower
Size	-
Wt.	30.4kg
Code	**KS0000**

Desc.	Tie - Infill 8ft
Size	2438mm
Wt.	17.2kg
Code	**KS4305**



Desc.	Ledger - Bridging 16ft
Size	4880mm
Wt.	30.3kg
Code	**KS1400**

Desc.	Ledger - Bridging 24ft
Size	7320mm
Wt.	63.2kg
Code	**KS1300**

Kwikstage

Desc.	Transom - Return 4ft 2in
Size	1270mm
Wt.	3.97kg
Code	**KS2000**

Desc.	Kwikstage Standard 6ft 6in
Size	2000mm
Wt.	11.6kg
Code	**KS0200**

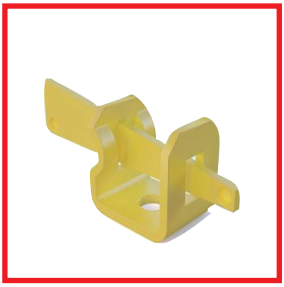
Desc.	Standard Restraint - Loading Tower
Size	-
Wt.	3.97kg
Code	**KS6005**

Desc.	Transom - Return 2ft 8in
Size	813mm
Wt.	7.5kg
Code	**KS2200**

Desc.	Kwikstage Standard 9ft 9in
Size	3000mm
Wt.	16.8kg
Code	**KS0100**

Desc.	Transom - Loading Tower 8ft
Size	2038mm
Wt.	45.7kg
Code	**KS1600**

Desc.	Jack - Universal
Size	-
Wt.	6.7
Code	**SZ0043**



Desc.	Bracket - Toe Board
Size	-
Wt.	0.9kg
Code	**KS360S**

Kwikguard

Code	Description	Size	Weight
KS7400	Kwikguard	1270mm	14.5kg
KS7300	Kwikguard	1829mm	17.9kg
KS7200	Kwikguard	2438mm	23.5kg

Platform Brackets

Code	Description	Size	Weight
KS3500	Bracket - Platform 1 board	-	2.0
KS3400	Bracket - Platform 2 board	-	5.2
KS3300	Bracket - Platform 3 board	-	7.3

Steelstage

Code	Description	Size	Weight
KS4900	Steelstage 8ft	2438mm	16.3kg
KS5000	Steelstage 6ft	1829mm	12.3kg
KS5100	Steelstage 4ft	1270mm	8.8kg

Transoms

Code	Description	Size	Weight
KSGL10	Transom 2ft 8in	813mm	4.9kg
KSGL04	Transom 4ft 2in	1270mm	7.2kg

Kwikstage

Stairway Unit

The aluminium stairway unit fits into a 2438mm x 1981mm high Kwikstage scaffold bay. The overall width of the unit 576mm enabling two to be fixed in a standard 1270mm wide bay.

Code	Description	Size	Weight
KS7100	Stairway 8ft x 6ft 6in	2438mm x 1981mm	38.81kg
KS6100	Stairway Handrail	-	10.01kg

Painted & Galvanised Kwikstage

- 9'9" Standard
- 6'6" Standard
- 8' Ledger
- 6' Ledger
- 4'2" Transom
- 12' Diagonal
- Screw Jacks
- 1 Board Bracket
- 2 Board Bracket
- 3 Board Bracket
- 4' Tie Bar
- 6' Tie Bar
- 8' Tie Bar
- 6' Bowstring
- Battens
- 2'8" Transom
- Ladder Acess Transom
- Loading Bay Transom
- 8' Bowstring
- Return Transom

Notes

Ladders & Builders Products

Scaffold Ladders

Ladder Safety Products

Trestle Handrail System

Scaffold Ladders

Tuffsteel Ladders

Certified to BS EN131 and tested to Class 1 strength criteria. With aluminium zinc for maximum corrosion resistance which improves overall finish, prevents chipping and flaking of the paint and protects from inner corrosion. Kitemark Licence No. KM34154.

Code	Description	Length	Weight
SL3000	Tuffsteel Ladder 3.0m	3000mm	10.00kg
SL3500	Tuffsteel Ladder 3.5m	3500mm	11.00kg
SL4000	Tuffsteel Ladder 4.0m	4000mm	18.00kg
SL5000	Tuffsteel Ladder 5.0m	5000mm	23.00kg
SL6000	Tuffsteel Ladder 6.0m	6000mm	28.00kg
SL7000	Tuffsteel Ladder 7.0m	7000mm	32.00kg
SL8000	Tuffsteel Ladder 8.0m	8000mm	37.00kg

Ladder Safety Products

Ladderguard

The ideal deterrent to the unauthorised use of site ladders. Made from 2.5mm aluminium sheet the Ladderguard is 1140mm long by 250mm wide and comes complete with warning sticker attached. Ladderguard quickly locks in position on the ladder, using padlock supplied.

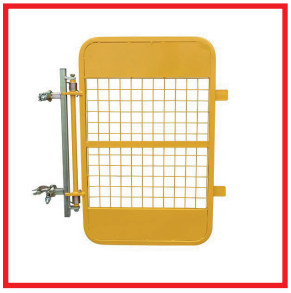
Code	Dimensions	Weight
SL1000	H: 1140mm W: 250mm	5.00kg

Ladder Access Trapdoor

The Ladder access trapdoor hinges over ladder scaffold apertures preventing falls from exposed openings.

BSEN 12811

Code	Dimensions	Weight
KS6020	H: 585mm W: 710mm	8.00kg



Reversible Handrail Safety Gate

Altrad Generation's Reversible Handrail Safety Gate is made to hang from either the left or right side with integral toeboard protection. The gate comes fully electroplated before being powder-coated for high visibility and spring loaded for added safety and efficiency.

Code	Dimensions	Weight
KS6010	H: 1020mm W: 570mm	9.00kg

Ladder Clamps

Developed for the safe and secure fitting of all ladder types from steel, timber or aluminium ladders to scaffolding. Very quick and easy to use with no special tools required as the device can be tightened securely using a standard scaffold spanner.

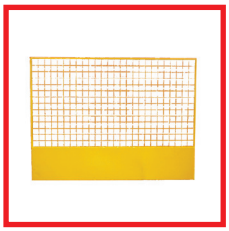
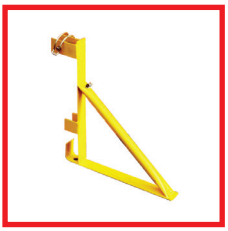
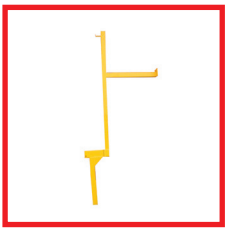
Code	Dimensions	Weight
F38000	-	0.44kg

Trestle Handrail Systems

The 3.9m Trestle Handrail System is a simple and easy to erect system used in conjunction with adjustable steel trestles which has been specially developed to meet the needs of the Working at Height Regulations. Using only four components a full hand rail, complete with brick guard, toeboard and stabilisation can be erected in minutes.

Features and Benefits

- Tested and conforms to BS EN 13374 edge protection
- Provides full class 'A' protection
- Fits 2 and 3 sizes of builders trestles. 4 trestles needed per 3.9m Trestle Handrail System
- Can be safely assembled from the ground by just one man
- No 'systemised' spacing bars or fixed width handrails
- Integral stabilisation, brickguards and toe boards

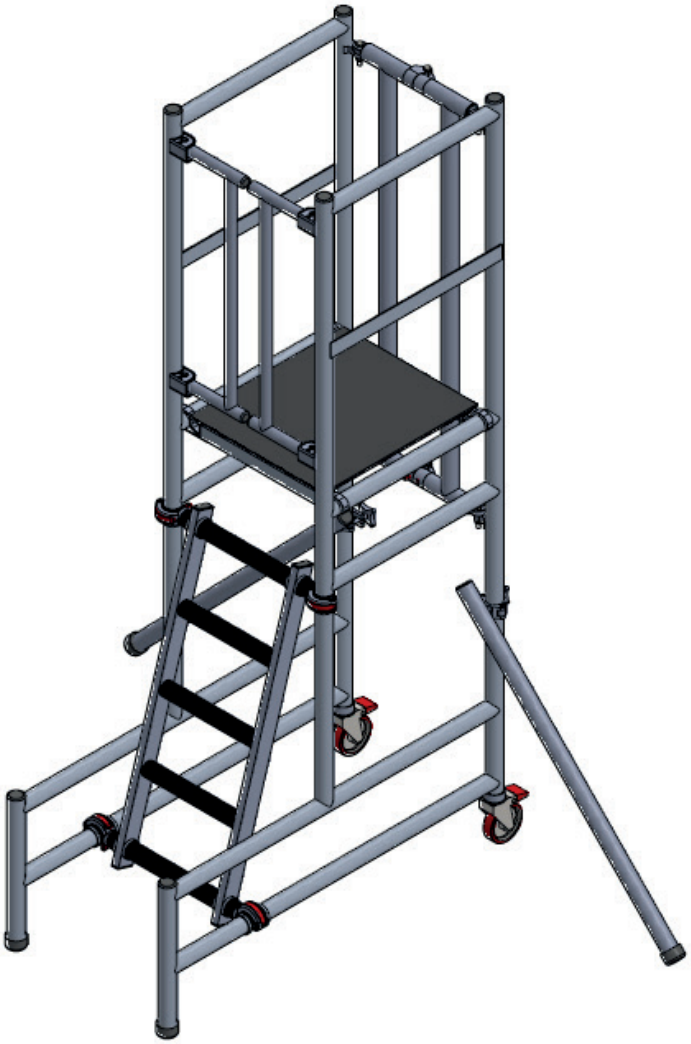
Code	Description	Weight
SG0100	Handrail Post	7.00kg
SG0400	Handrail Panel	9.00kg
SG0300	Stabiliser	1.50kg
SG0600	Ladder Post	7.00kg

Adjustable Steel Trestles

- Lightweight steel design
- Powder coated finish
- Quality tested to BS1139
- Safe Working Load 4.7kN (470kg) UDL

Code	Description	Weight
HDT100	Trestle Size 1 0.51m - 0.71m	7.00kg
HDT200	Trestle Size 2 0.76m - 1.17m	9.00kg
HDT300	Trestle Size 3 1.07m - 1.68m	10.50kg

Notes



Specialist Light Access

Specialist Modular Alloy Systems

Light Access Accessories

BoSS Aluminium Span Tower

BoSS GRP Zone 1 Tower

BoSS Ladderspan and Clima Tower

Stagings

Spandeck Walkway System

Specialist Modular Aluminium Solutions

Altrad Generation Access provides solutions for all access requirements with a full range of modular tower systems.

From a simple tower to a complex structure, Altrad Generation supply both material and expertise to the construction and industrial sectors. Equipment is supplied for hire and sale or alternatively with a full erection service undertaking complex structures and demanding solutions to all access problems.

Towers can be supplied in a vast range of configurations and heights to suit all trades. Large deck areas and low level access systems provide safe access to soffit applications. Cantilevers and facade structures provide solutions to the most difficult access areas.

Altrad Generation provides a fast response service to all access problems. A full range of MAST Aluminium Span Towers, Boss Ladderspan, Glass Reinforced Plastic, and Evolution Towers are available, plus Folding Room Scaffolds, Podiums, Stagings, and Low Level Platforms.

Altrad Generation specialise in the supply of 250mm rung frames for maximum flexibility at working height. Staff are trained to Advanced PASMA standard, and Manufacturer specific trained and all hold CSCS card registration.

Free Site Surveys

Light Access Accessories

Cantilever Towers
Cantilever towers are useful when needing to protrude outside the normal base dimensions. Difficult areas such as riser shafts or window apertures can be overcome.

Fold Easy Towers
Small and lightweight, with no braces just a folding frame. Useful for corridors and small rooms and able to pass through a standard doorway without dismantling.

Rail Maintenance Towers
Towers that can be used on railway tracks via special 'bogeys' that sit on the rail. They can be raised and lowered for high level work.

Gladtag for Towers
Generation's Alloy Tower Inserts helps companies to comply with current legislative requirements ensuring employees are informed if equipment is not safe to use. Supplied in boxes of 10 with 20 inserts and 2 pens.

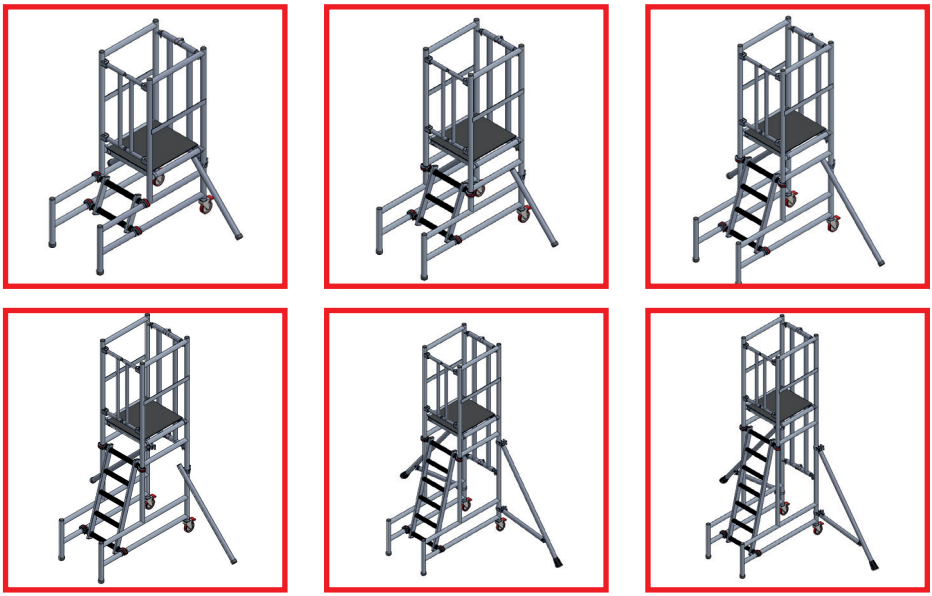
Ladders and Steps
An extensive range of steps and ladders are available including aluminium and fibreglass to cover all trades.

Site Safe
Designed to deter the most determined thief, a strong sturdy steel storage container for expensive tools and equipment on site, or in your workshop.

Light Access Accessories

No-Nocs

No-Nocs are designed to reduce impact and scuffing damage to finished surfaces. Compatible with a range of equipment, including low-level access, aluminium towers and system scaffold.



Podium Steps

Podium steps are the safe alternative to builders steps and weigh less than 22kg. When assembled it will go through a standard doorway.

BoSS Aluminium Span Tower

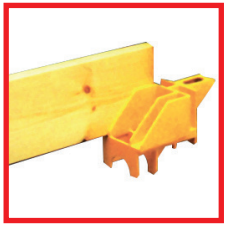
The BoSS Aluminium Tower System is designed to meet users requirements and can be assembled in many different ways to provide safe working platforms for construction industry or inspection/maintenance purposes.

Four basic tower configurations are available 850mm and 1450mm ladder span, stairway and the folding room scaffold. A range of component for special applications such as cantilevers, facade scaffolding systems, bridge structures and pedestrian access are also available.

Features and Benefits

- 1.8m, 2.5m and 3.2m fixed and trapdoor decks available
- Deck width 600mm
- 275kg distributed load capacity
- Solid aluminium deck claw is 40mm wide preventing damage to frame horizontals
- Offset claws on all decks allow continuous runs
- Extruded aluminium deck frame affords total edge protection to combiboard deck minimising damage
- Large trapdoor (662mm x 531mm) for easy access to platforms

Deck Claw



Toeboard Clip

Castor

All braces are colour coded for ease of use.

BoSS GRP Zone 1 Tower

GRP Zone 1 Tower is specifically designed to be used where the use of Aluminium Towers are not appropriate. Providing a safe, non conductive, clean and efficient full protection tower system.

Zone 1 Areas

The Zone 1 areas are areas in which an explosive atmosphere is likely to occur in normal operation. In these areas only Zone 1 rated materials are ACCEPTABLE and where the use of GRP is highly recommended. The Zone 1 Tower is made up from Glass Reinforced Plastic (GRP). It won't spark, oxidise, conduct electricity or corrode, it combines strength, durability and ease of use.

Conductive

The Zone 1 Tower is non conductive, making it safe to use around electrical installation for repair, inspection and maintenance work It is particularly appropriate for use in electrical engineering applications and in the rail industry.

Non-Sparking

Static electricity represents a real hazard in many industrial applications. Zone 1 Tower will not 'spark' and is therefore safe to use in areas where dust, vapour or other combustible material is present.

Non-Corrosive

GRP is a tough, non corrosive material that is resistant to electrolytic corrosion caused by salt water, deterioration caused by caustic chemicals and damage arising by contact with gasoline, oils, lacquers and most solvents commonly found on industrial sites.

Non-Oxidising

Unlike aluminium, GRP does not oxidise and so keeps works surfaces clean and residue free. This is essential in food manufacture, food preparation areas and in applications that are 'clean' or hygiene sensitive.

BoSS Ladderspan & Clima Tower

BoSS Ladderspan Tower

This exceptional aluminium access tower offers all the features of original BoSS and many more besides.

Features and Benefits

- Increased rigidity
- Fully compliant with original BoSS because all the components are the same with the exception of the frames with are fully interchangeable
- Integral ladders with 250mm rung spacing
- Frame horizontals have a 500mm spacing and ribbed tubing for increased grip
- Two frame widths: 850mm and 1450mm
- 2 deck lengths: 1.8m and 2.5m
- Safe working load of 275kg per platform level up to a maximum of 950kg per tower (including self weight)

BoSS Clima Tower

Premium lightweight industrial aluminium modular access tower system featuring a climbing frame.

Features and Benefits

- Apart from the end frames the system is fully interchangeable with BoSS Ladderspan tower components
- 250mm easy climb frame rung spacing
- Two widths - 850mm Single Width and 1450mm Double Width.
- 3 slip resistant platforms - 1.8, 2.5 and 3.2m with self closing trapdoors and windlocks.
- The maximum platform safe working load is 275kg
- Primed brace identification: Red: horizontal. Blue: Diagonal
- Horizontal braces used as guardrails
- Castors with compact trail/no trail positive locking brace mechanism

Standard Towers for Stairs

2.8m / 4.3m / 5.8m & 7.3m Platforms

Stagings

Aluminium Stagings

Purpose designed stagings to provide strong and stable platform for use in scaffolding applications. Standard lengths from 2.4m to 7.2m. Aluminium box section stiles and cross bearers. Combi-board decking, and rubber inserts to underside, to prevent movement. BS2037 certified: Supports 270kg distributed load.

Code	Length	450mm Wide	600mm Wide
		Weight	Weight
LS0800	2.5m (8'00")	13.00kg	14.00kg
LS1000	3.0m (10'0")	15.00kg	16.00kg
LS1200	3.6m (12'0")	17.00kg	18.00kg
LS1400	4.2m (14'0")	21.00kg	23.00kg
LS1600	4.8m (16'0")	28.00kg	30.00kg
LS1800	5.4m (18'0")	30.00kg	32.00kg
LS2000	6.0m (20'0")	34.00kg	36.00kg
LS2200	6.6m (22'0")	40.00kg	43.00kg
LS2400	7.2m (24'0")	43.00kg	46.00kg

Universal Handrail Brackets

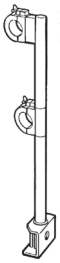
Fits all sizes of LFI stagings, ANY width and ANY length.
Fitted with lock-jaw clamps to provide quick, strong fitting.
Adjustable fittings included to allow for various sizes of tube including standard scaffolding Toe-board clip to accommodate various sizes of board including standard scaffold plank.

Code	Dimensions	Weight
LS0100	H: 1140mm W: 250mm	5.00kg

Spandeck Walkway Systems

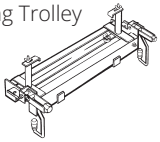
Altrad Generation Spandeck is a lightweight aluminium walkway bridge, work platform and staging system in one versatile unit for indoor and outdoor locations.

High strength aluminium alloy construction ensures that Spandeck is lightweight and maintenance free whilst integral toeboards enable it to be used safely as a walkway. Guardrail posts and guardrails are fitted to provide a safe working environment. Before using the below Safe Working Load's, check that the support structure can safely carry these loads.

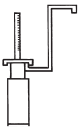


Spandeck Guardrail Post

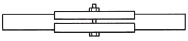
Spandeck Walkway



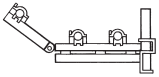
Spandeck Roofing Trolley



Spandeck Purlin Anchor

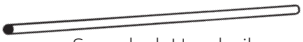


Guardrail In Line Connector



Spandeck Trailing Edge Bracket

Spandeck Link Bracket



Spandeck Handrail

Code	Description	Deck (L)	Width	Weight	SWL
307515	12' Spandeck Walkway	3.7m(12')	600mm	30.00kg	900kg Distributed
307516	16' Spandeck Walkway	5.0m(16')	600mm	39.00kg	675kg Distributed
307526	18' Spandeck Walkway	5.5m(18')	600mm	43.00kg	600kg Distributed
307520	20' Spandeck Walkway	6.1m(20')	600mm	47.00kg	640kg Distributed
307524	24' Spandeck Walkway	7.3m(24')	600mm	55.00kg	450kg Distributed
307500	Handrail	-	-	5.00kg	-
307510	Guardrail	-	-	5.00kg	-
307511	Link Bracket	-	-	5.00kg	-
307512	Purlin Anchor	-	-	2.00kg	-
307513	Roofing Trolley	-	-	8.60kg	-
307514	Trailing Edge Bracket	-	-	7.00kg	-

Code	Description - Sale Only	Deck (L)	Width	Weight	SWL
307612	12' Horizontal Safety Line	-	-	2.00kg	-
307616	16' Horizontal Safety Line	-	-	2.50kg	-
307620	20' Horizontal Safety Line	-	-	3.00kg	-
307624	24' Horizontal Safety Line	-	-	3.50kg	-

Notes

Find Your Nearest Branch:

Simply scan the QR code and input your postcode by clicking on 'Find your local branch', our website will then show the nearest branch to your location.

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