



GROUNDWORKS

END PANELS

User Guide



HIRE & SALES

BH/07.26

Altrad Hire & Sales

Support for Construction & Industry



Altrad Hire & Sales is the UK's leading supplier of: Scaffolding, Temporary Fencing, Light Access, Edge Protection, Safety Decking 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.

End Panel for Trench & Manhole Boxes

This booklet is intended to provide basic information for users of the Altrad Hire & Sales Hire End Panel and to draw the client's attention to the aspects of handling, assembly, installation and use which need to be considered in compiling a safe system of work. In particular, the client's attention is drawn to the size and weights of the individual components and the need for planning the lifting operations involved.

All the End Panels have lifting points for safe slinging. The End Panel is only intended for use in conjunction with a Trench Box or Manhole Box and is NOT to be used for any other purposes. This booklet should be read in conjunction with the appropriate User Information for Trench Boxes and Manhole Boxes.

Design

The End Panels have been designed for a Maximum Earth Pressure of 36-4 kN/m². Users are advised to check that their excavation arrangement will not impose greater working pressures. Conditions which will increase the likelihood of trench wall instability and lateral earth pressures are:

- a) Close proximity of structures.
- b) Excavated or construction materials adjacent to the trench.
- c) Close proximity of site roads.
- d) Close proximity of railways.

The End Panels are designed for use on closed ends of excavations where pipes or services do not extend beneath the panels. They are not connected to the Trench or Manhole Boxes and do not seal the boxes against water ingress.

WARNING: During installation of the End Panel, Trench and Manhole Boxes can slide longitudinally in certain ground conditions.

Component Identification



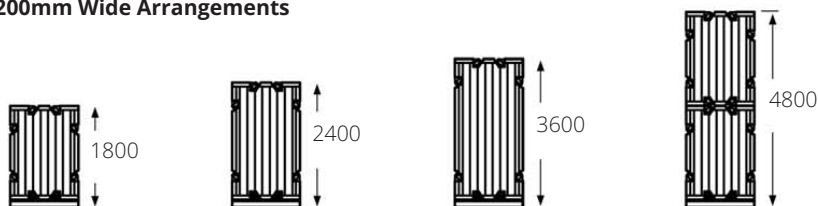
Code	Height & Width (mm)	Weight (kg)
084794	1800 x 1200	197
084795	2400 x 1200	242

Code	Height & Width (mm)	Weight (kg)
084796	2400 x 1800	385
084797	3000 x 2000	495

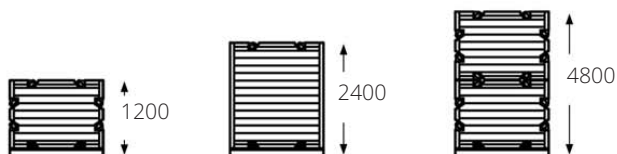
Typical Assemblies

Note: The maximum useable depth is 4.688m. Consisting of 2 No. 2.260m high Panels

1200mm Wide Arrangements



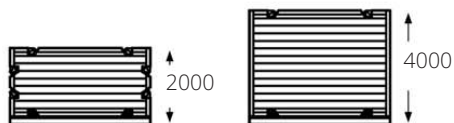
1800mm Wide Arrangements



2400mm Wide Arrangements

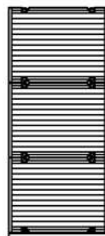


3000mm Wide Arrangements



Note:

End Panels are NOT to be assembled or installed 3No. Panels high. If a height is required that is greater than shown above please contact Altrad Hire & Sales.



End Panel for Trench & Manhole Boxes

Manpower

The Health and Safety Regulations require that personnel deployed are suitably trained, experienced and supervised by a competent person.

Plant for Lifting

A suitable appliance is required for off-loading and assembly if required. The machine lifting capacity and clearance under the lifting point should be checked against the sizes and weights of the End Panel to be lifted / assembled. **WARNING :** If an excavator is being used for lifting operations, refer to safety information in Altrad Hire & Sales's "Lifting Chains" User Guide.

Lifting Chains

Lifting chains of suitable length and capacity complete with current certification. Typically a set of 4 leg 13mm chains with 4m leg length complete with safety hooks and shortening clutches. Refer to Lifting Chain User Information for more details.

Access and Hard Standing Areas

These include:-

Suitable area to off-load the lorry.

Suitable hard standing for the machine to operate to lift the End Panel into position.

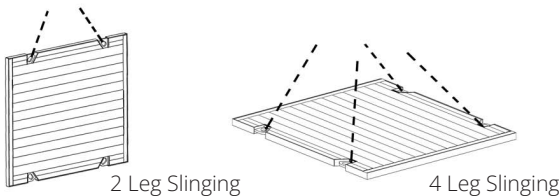
Ladders and possibly other provisions to provide safe access into and out of the trench.

Supply of Equipment to Site

Altrad Hire & Sales will normally supply End Panels as individual components ready for site

Return of Equipment Off-Hire

Clients should ensure that on removal, the equipment is returned in sections as supplied.



Stacking and Transportation

End Panels should be stacked with suitable timber dunnage. (Max. 6 Panels per stack).

Panel Connectors and pins should be stored in bins.

When transported End Panels should be securely assembled together and restrained to the vehicle bed.

During transportation, stacks and bins should be securely restrained to the vehicle bed.

Stacking and Transportation

When not in use, ALL End Panels should be stored horizontally.

Use of End Panels

Maintenance

Regularly check that the Connector Pins and Panel Connectors are fitted and tight.

Do's & Don'ts

DO - Ensure that all operatives are familiar with the safety and operating instructions.

DO - Check that the Connector Pins and Panel Connectors are always fitted and tight.

DO - Follow the basic maintenance instructions.

DO - Wear a safety helmet.

DO - Use suitable 4 leg chains and lifting equipment.

DO - Store End Panels horizontally.

DO - Undercut the ground beneath the End Panel if it binds during installation.

DO - Extract an End Panel that is 2no Panels deep in stages.

DON'T - Move the End Panel if any personnel are inside the excavation.

DON'T - Use lifting lugs for other than loading / unloading, installation or assembly purposes.

DON'T - Use panel combinations other than those recommended by Altrad Hire & Sales.

DON'T - Use unsafe lifting equipment.

DON'T - Leave End Panels in the ground for prolonged periods.

DON'T - Hammer the End Panels with an excavator bucket during installation.

DON'T - Push the End Panel with the excavators quick hitch.

DON'T - Install an End Panel arrangement that is more than 2no Panels deep.

DON'T - Fully extract an End Panel arrangement that is 2no Panels deep.

DON'T - Install an End Panel arrangement that exceeds a height of 4688mm.

DON'T - Continue to push an End Panel that has slipped or become unstable during installation.

IF IN DOUBT CONSULT ALTRAD HIRE & SALES.

GROUNDWORKS BRANCHES NATIONWIDE



0800 043 8484

Glasgow South

Tel: 01696 870000

Email: glasgowgs@altrad.com

Widnes

Tel: 0151 430 1111

Email: widneshs@altrad.com

Birmingham North

Tel: 0121 366 7840

Email: birminghamnorthgw@altrad.com

Cardiff Docks

Tel: 02920 674 190

Email: cardiffdocks.hs@altrad.com

Reading

Tel: 01252 838696

Email: readinggw@altrad.com

London East

Tel: 01375 117 130

Email: londonwest.gw@altrad.com



HIRE & SALES

Altrad Hire & Sales UK Head Office
Trinity Square, Off Tar River Road, Dillbury, R94 8 JX
Tel: 0121 549 3490
groundworks.enquiries@altrad.com
www.altradriveways.co.uk