



Ultra-Light Aluminium Grave Shoring System



SAFE USE MANUAL

MEETS ALL THE SAFETY REQUIREMENTS OF AS 4744.1-2000

INCLUDES OTHER CEMETERY PRODUCT DETAILS

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LITE GUARD CEMETERY SHIELD

The Lite Guard cemetery shield meets the safety requirements of AS 4744.1-2000 (Australian Standard), BSEN 1331.142 (British European Standard) and 29CFR Part 1926 OSHA Sup Part P (USA Standard). The shields are made from aluminium extrusions, specially extruded to Lite Industries Pty Ltd requirements.

The Lite Guard cemetery shield has been made to be robust in everyday use but was not designed to be abused or lifted incorrectly with a machine.

A complete trench shield system is made up of:

2400mm long x 600mm high panels (or sizes to suit requirements)

4 Legs (if required)

Across steel adjustable spreader bars.

Extension joiners

Pins and clips.

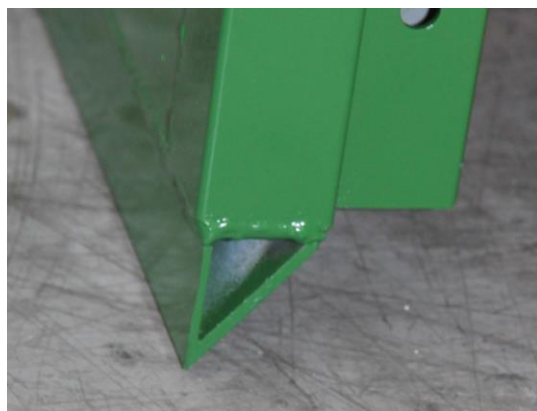
The Lite Guard panels weigh approximately 30 Kgs each. A fully assembled Lite Guard Grave Shoring unit 2400mm long x 2800mm high (3 high) including the spreader bars and without legs weighs 236Kg.

The base unit has built in cutting edges but there is also provision for legs in each corner, giving an additional working depth of 600mm below the base of the shield. The legs are for use in normal soil not prone to cave-ins. They are secured with pins and "R" clips. The pins are steel, 10 mm diameter x 90 mm long with mushroom heads, with a 5 mm dia. hole for the safety clip.

The additional panels, stack on top of the base unit using the extension joiners and secured with pins and clips. Stacking panels only require 2 spreader bars and panels can be stacked up to a depth of 3000mm.



Installation of the shields



Cutting Edges

The standard spreader bars are steel, 600mm-900mm though there are different sizes to suit wider graves, up to 1800mm The spreader bars can be adjustable or a fixed length and are secured with pins and clips.



Spreader Bar

If working in more stable ground where the grave depth can be achieved, you excavate to the depth required and then install the shield immediately after excavation. If stacking panels are used in this situation it may be possible to lower the panels already assembled into the grave.

Assembly: Install 2 legs (if required) in each of the base panels and secure with the pins & “R” clips supplied. Holding the panels approximately 600mm apart, install the 4 across spreader bars, again using the pins and clips supplied.



Once you've locked the spreader bars in place and selected the desired length, the G Pin comes up, drops into the hole. You wind the wind nut round until it reaches the G Pin and then you lock it into place.



Spreader bar showing the G Pin

Now fit 4 extension joiners one in each top corner of the base unit. Lift one panel onto the top of the base unit, guiding the panel onto the extension joiners. Repeat for the next panel, now install the 2 spreader bars, again securing with the pins & clips supplied, repeat for the next two panels if required. There needs to be 4 spreader bars on the Base Unit and 2 spreader bars on each set of stacking panels.

If working in stable ground where the grave depth can be achieved the complete unit can be installed into the excavation using a 4 leg lifting chain. Lift the unit with the excavator & lower into the grave excavation. There are lifting lugs on all the panels. Depending on the ground conditions, you can now enter the shield and wind up the spreader bars to put pressure on the walls of the excavation if required.

Alternatively, in unstable ground where the complete grave depth cannot be achieved, the units (2 panels) can be placed in the excavation one at a time with the excavator. Start the excavation and install the base unit 600mm in depth. Then excavate the soil within the shield and as the grave gets deeper push the shield down gently with the machine bucket and the cutting edges will slice the earth off the side of the grave.

When using this method it is recommended to use pushing plates on the corners of the panels. This prevents any damage to the panels.



Pushing Plates

Now add the first stacking unit and repeat the process of the excavation within the shield, pushing the unit down with the back of the excavator bucket, until the required depth is reached, adding extra panels if required.

To remove the shield release the across prop pressure on the walls and remove using the excavator. To dismantle reverse the assembly procedure.

There is a short video on our web site showing the assembly of the shields:

www.graveshoring.com.au

COFFIN SHAPED SHORING

Lite guard manufacture coffin shaped shoring on request. The panel sizes are made to individual requirements and are for use with our adjustable spreader bars. The assembly is the same as for the standard grave shoring.

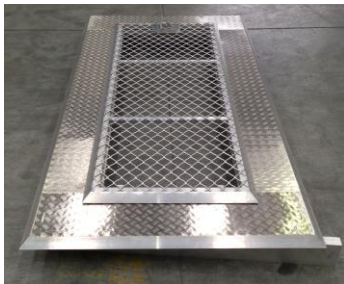


SAFETY LID

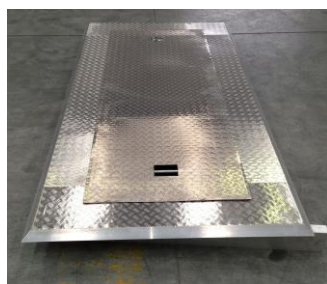
Safety Lids can be used with the tread plate decking or on their own over an open grave with the use of pegs.

They can be solid aluminium or mesh and lockable if required. The lid can be made to sit flush with the decking or with a sloping edge. They can be lockable and attach to the shoring or decking.

In the event of digging graves for children there is an option for a tread plate safety lid with a small opening which has a collar. This is both for aesthetic purposes as well as for safety.



Mesh Lid with Decking



Solid Lid with Decking



Baby Coffin Safety Lid

Different sizes of lid available made to suit the grave size.

ALUMINIUM CHECKER PLATE DECKING

The non-slip checker plate decking ensures that the grave surrounds are stable and safe. The standard width is 400mm and is made up of 4 panels which bolt together and once assembled can be left in one piece. It has a sloping edge to prevent a tripping hazard.

We can supply a bar which enables only 3 sides of the decking to be used for use in monument areas or when space is restricted.

The decking can be made with a separate collar approx. 300mm deep which ensures that the soil at the top of the grave remains stable.

The decking can attach to the shoring system and also the Safety Lid and allows for the installation of handrails.

The decking also gives a stable platform area for the lowering device.



Removable Collar & Decking



Decking



**3 sided Decking for use
with headstones**

END CLOSURE PANELS

End Closure Panels are for use with the standard shoring panels when in sandy or unstable soil to prevent a cave-in at each end of the grave.

Each panel is made up of 3 sections, each with a handle. They are adjustable to fit the ends of the grave. The standard section is 300mm wide and 2400mm long but for wider graves extra panels can be used and the length can be made to requirements.



3 End Panels to shore the end of a grave

For cemeteries that dig different grave depths we can supply sections which bolt together.

BOLT TOGETHER BOX SECTION SHORING

Box Section Shoring has been developed for use in sandy soil or for cemeteries that dig graves the same size.

Bolt the 4 sides together with the bolts and nuts supplied.

It comprises of a 4 sided base section and a 4 sided stacking section. The sizes are determined by the individual requirements of the cemetery. The two sections can be assembled and then installed in the grave with an excavator or the base section can be installed first and the stacking section put in place. It is safe to enter the excavation once the base section is installed in order to attach the stacking section to the base.

There are lifting lugs in each corner. As with the standard shoring, the Box Shoring is built to your dimensions and requirements. Attach a 4 leg lifting chain to each point and lift into place

To remove the box from the ground, reverse the process.



Bolted together Box Shoring



**Bolted together Box Shoring
with Safety Lid with flange**

SHORT NOTICE BURIAL SYSTEM

LITE guard have developed a shoring system to suit multi-cultural graves which solves the issue of relatives entering the grave to place the deceased. A smaller version has been developed to suit multi-cultural graves for children.

The system is made with reinforced aluminium sheet, in 2 halves, adjustable, 700 to 900mm and can be removed by hand by two people. Each panel weighs around 22kgs. It has unique spreader bars that lock into place with downward pressure on installation. For removal by 2 people the spreader bars are pulled vertically by hand and this releases any ground pressure to allow for easy removal. For removal in one piece by an excavator leave the spreader bars in place until after removal.

The system is only for multi-cultural graves and only for up to 1.8m deep.

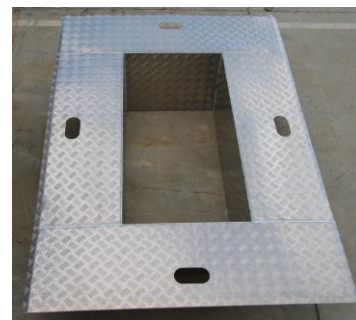
The system shores the grave to the top of the table in the grave, creating a safe area for family members to place the deceased.



Multi- Cultural shoring in use



Multi-Cultural shoring



Small Multi-Cultural Shoring



Showing spreader bars



Showing shoring in 2 halves



Spreader Bars

MONUMENT STABILISER

The Monument Stabiliser consists of a safety staff with channel, tubing and clamp to secure unstable monuments. The 3 part system is easy to use and comes in 3 different channel sizes to cater for different gravestones and monuments.



GANTRY

Lite Industries, in conjunction with Austeng have developed a gantry to lift coffins which will help to minimise the risk of injury to cemetery staff, funeral directors and family members with the process also being seen as more respectful to the family.

The gantry can be used in narrow pathways, areas with restricted access, and will safely lift coffins around monuments and lift ledgers before and after internment. It can also be used to harness staff when working in graves especially during exhumations.



It is modular and easily transported and can lower a 500kg coffin.

Austeng have developed the battery operated lift system which enables the coffin to be lifted and tilted into monumental graves operated either remotely or via pendant control. Using the gantry also means that less staff are required in attendance.

The final version has been well received at recent Conferences and the gantry meets all relevant National lifting codes and safety regulations