

## Transport, Storage and Installation Information

### Freestanding Retaining Walls

Moore Concrete Freestanding Retaining Walls are designed by Chartered Structural Engineers in accordance with Eurocode 2 and manufactured in accordance with BS EN 15258 Precast Concrete: Retaining Wall Elements. Care must be taken during transport, offloading and installation to guarantee the integrity of the units.

The full design strength of the Retaining Walls will only be achieved after 28 days. The date of manufacture will be specified on the product label fixed to the unit, this label also shows the unit weight. If this label is missing please contact Moore Concrete for advice.

#### Transport

- Units will be transported on their side due to height restrictions and for stability.
- Each unit will be placed on timber laths and units will be spaced at an adequate distance apart to ensure no damage occurs to the units during transit.
- The driver collecting the units from Moore Concrete will be responsible for securing and the stability of the units before departing the yard.



#### Offloading & Storage

Handling of the panel units should be completed by competent persons in line with a specific risk assessment and “Lifting Operations Lifting Equipment Regulations - 1998 or 1999 (NI)”. If a crane is required, the installation should be completed in line with a Lift Plan in accordance with BS 7121-1:2016 ‘Safe Use of Cranes’.

- All equipment should be checked before use, to ensure that it is in a good condition and capable of lifting the units.
- Offloading and storage must be carried out safely and carefully on to firm and level ground, leaving appropriate distance between unit for turning.
- Appropriate lifting tackle & equipment should be used and also must be suitable for lifting the load. Lifting Loops or Swivel Eyes can be supplied by on request along with certification. Diameter will vary depending on product weight.

Wall Type and Product Code	Lifter diameter
8' (2.415m) L shaped retaining wall – RW8	Rd16
10' (2.990m) L shaped retaining wall – RW10	Rd20
13' (3.995m) L shaped retaining wall – RW13 & 4m L shaped retaining wall – RW4	Rd30

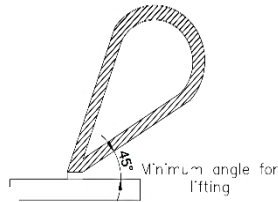
- Lifting Loops must not be used with an angled lift less than 45° (see sketch below)
- It is advisable to use an approved mounted hook which should be secured to the forks to prevent movement.
- The units should be laid safely on the ground on a timber skid or lathes to prevent damage to the unit



Swivel Eye 1



Lifting Loop 1



### **Turning into Upright Position**

When turning the units ensure that:

- All equipment should be checked before use, to ensure that it is in a good condition and capable of lifting the units
- Insert the pin as illustrated below through the top hole of the wall. (see photo's below). Turning Pin is available to purchase at £100 +VAT Each
- Lift vertically and slowly maintaining control at all times until the unit is in an upright position as illustrated below. Ensure that the unit continues to bear on the ground at all times during turning.



Turning Pin 1



The above procedure can be viewed on a video by clicking on this link - [Turning Video for L Walls](#)

### Moving into Position

- All equipment should be checked before use, to ensure that it is in a good condition and capable of lifting the units
- Before approaching the upturned unit, ensure that it is stable.
- The walls can then be moved into position by inserting a second turning pin through the second hole at the top of the wall, as illustrated below.
- Position Units on a firm level base, the foundation requirements should be as specified by a qualified engineer accounting for the specific ground conditions at the site.
- Unless specifically informed otherwise, it is advised that the walls are anchored to the foundation to an embedment depth of 150mm using suitable lengths of 20mm diameter reinforcement and a polyester resin mortar. Depending on the wall height, there are 2 or 4 holes in the base of the units to be used as a guide to drill holes into the foundation. The reinforcement dowel bars should finish just below the surface of the precast retaining wall base and be completely covered by the resin mortar. Resin mortar should be used in accordance with the manufacturers' instructions.



The manufacturer assumes no liability for damage incurred by improper handling.

Care should be taken to ensure that load capacities are never exceeded, wither during installation or end use.