

Precast Concrete Retaining Walls

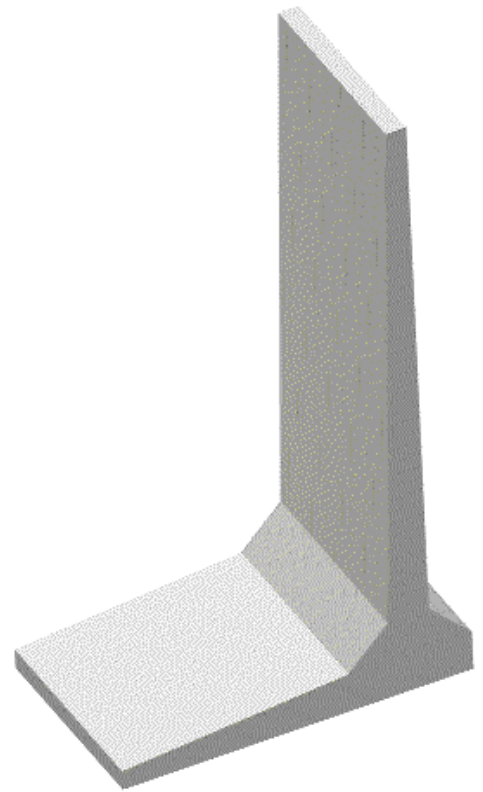
Macrete Retaining wall units are designed in accordance with BS5502 - the Structural Use of Concrete and take account of full surcharge loading of the material stored and three main types are available: -

- ‘A’ type for materials up to 900kg/m³ (coal, grain, etc.)
- ‘B’ type for materials up to 1600kg/m³ (sand, gravel, etc.)
- ‘S’ type for silage and slurry.

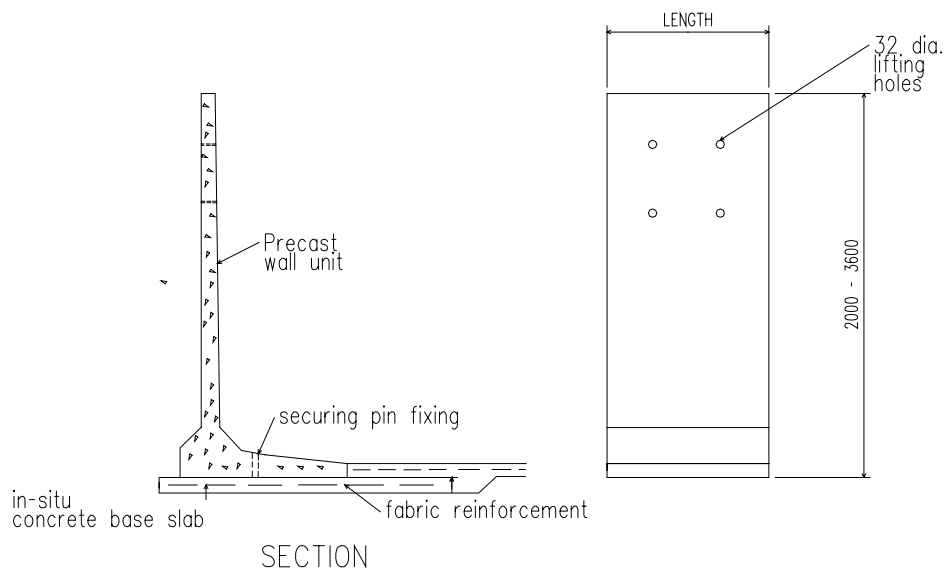
Each type can be either: - S.L. single side loading or D.L. double side loading. It is essential that D.L. type units be used where loads are imposed from both sides whether temporarily or permanently.

Standard Products:

Unit Height mm	Unit Width mm	Unit Length mm	Unit Weight kg
2000	1000	1000	750
2438	1219	914	1015
3000	1700	1000	2375
3600	1800	1000	2425



Macrete Retaining walls can also be made to client's design and requirements.



The insitu concrete base shown is typical only and to ensure a maintenance free life it is essential that the base is designed to meet local ground conditions, and where doubt arises then expert opinion should be obtained.

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Where the walls are to be installed inside buildings, units can be supplied without “heels”. These are used at the stanchion positions so that no loading is imposed on the building structure. We can also supply units less than the standard width to enable the space available to be utilised fully.

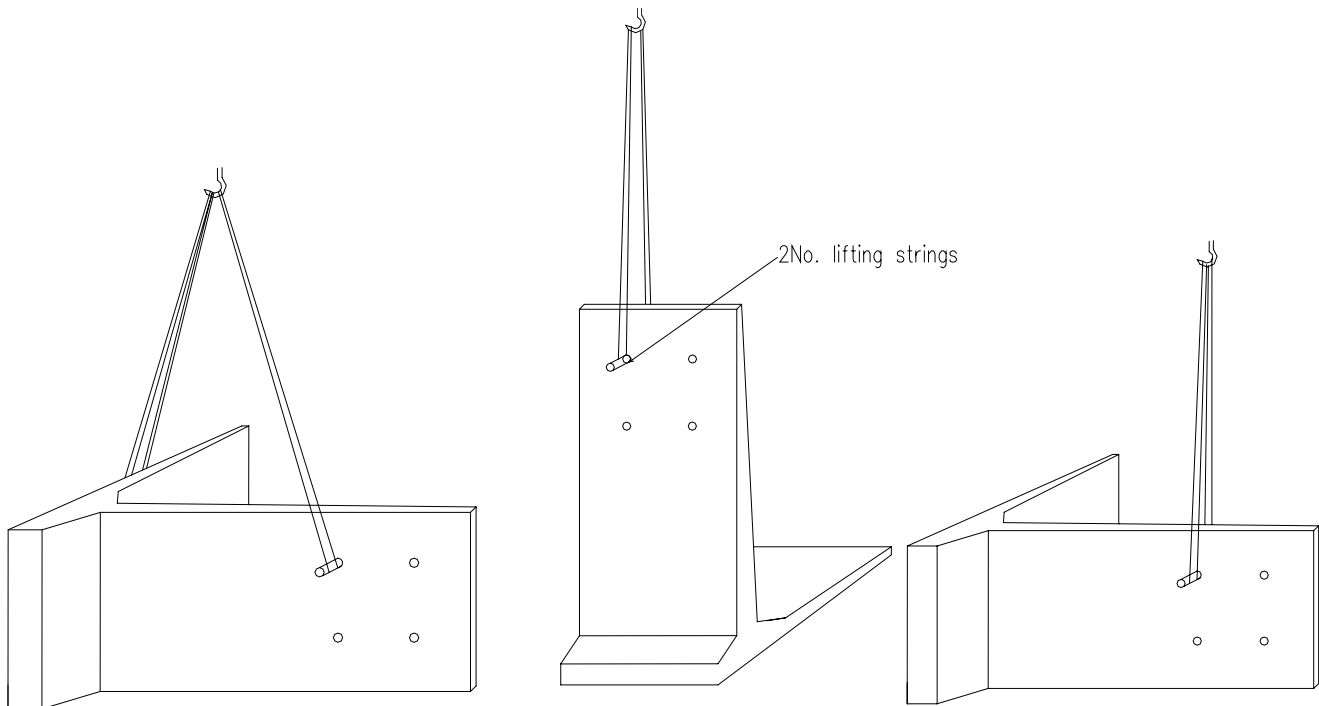
Details are set out in this brochure to assist you in planning your installation together with information to support your application for grant aid purposes (where applicable) and we shall be pleased to submit quotations for your consideration.

A sketch plan with your enquiry would assist us in quoting for the most economical layout.

Benefits:

- Versatile and adaptable to suit various requirements for either temporary or permanent layouts.
- Lightweight for easy handling.
- Increased storage capacity per unit area

Lifting and handling procedure



Erection – It is recommended that units are bedded on a weak mortar mix and aligned and levelled by using timber wedges. Units should be placed to allow 6mm for joining.

Joining Procedure – Following erection of the units, the joints are sealed by using foam plastic cord of 12mm dia. which is pushed into the joint between the units to a depth of 6mm. Approx. This is then sealed with one run of mastic compound. The sealing is applied to the length of the inside face of the wall units and for the length of the foot. We can supply or recommend suitable mastic.

Securing pins – All units manufactured by us are designed to meet Ministry safety requirements, which include in the case of silage, the ability to withstand the additional loads imposed by a compacting tractor up to eight tonnes weight. To prevent any possibility of tipping if hit by the tractor the units are secured to the base slab by two steel pins. These are fixed by drilling through the holes provided in the foot of each unit into the base concrete after the units have been positioned accurately. Two-part Polyester Resin is used to fix the pins and this must be prepared and applied in accordance with the manufacturer's instructions.

Sighting/Safety Rail – For silage clamps to qualify for grant aid, a sighting/safety rail must be fitted, in order to reduce the possibility of accident by the tractor used for compacting. This is available in component form at an extra cost. It is fitted by bolting through the lifting holes in the wall units.

Corners- Corner bars are supplied when required.
On corner units steel dowel pins are fitted in the holes provided in the mitred toe-pieces.

Macrete Ireland Ltd. precast concrete retaining wall units are designed to provide efficient and versatile bulk storage systems. Increased storage capacity gives a saving in storage area.

The units are simple and quick to install on any level site with a minimum of labour and can be loaded against either or both sides provided the proper unit type is used. Internal and external angles are available and storage layouts can be replanned and quickly adapted to suit changing requirements.

Technical representatives are available to assist in planning the storage layout and also to advise on the type of unit most suited for the purpose.