

- **Product Name**

Precast Retaining Wall [180mm – 400mm thick]

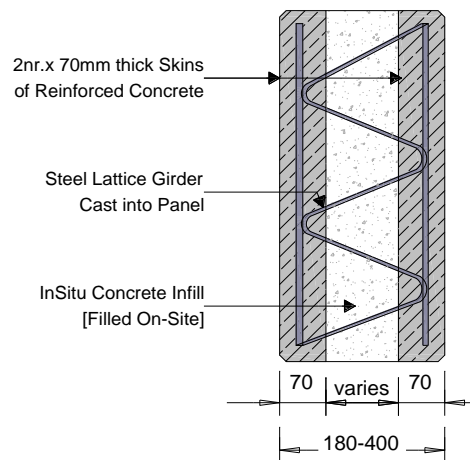


- **Product Description**

Our retaining walls are manufactured using the “Twin Wall” system complete with in-situ reinforced concrete in-filling. All Keegan Precast retaining walls are bespoke designed to meet the requirements of our clients.

Our Retaining walls are ideal for a warehouse solution where they are capable of spanning from pad to pad without any intermediate ground beam or foundation support. The tops of our retaining walls can be designed to rake in order to follow rising ground or to finish flush at the same level.

- **Manufacturing**



All of the necessary reinforcement required for the wall to work in its final case is cast into the wall panels at the manufacturing stage. The wall panel arrives on site as two 70mm concrete panels held together by the central longitudinal girders to provide a gap of not less than 80mm. The gap can increase depending on the size of the girder used in the wall construction. The minimum wall thickness able to be cast as a twin wall is 180mm. [Note: Skin thickness is reduced to 55mm for 180mm Twin walls].

Single panel sizes will be up to a maximum height of 3.0m and length of 7.0m with larger panels being designed and manufactured on an individual basis. If the height has to be greater than 3.0m the panel can be turned through 90° and the length can then be used for the height required. This will result in more vertical joints being visible as the width cannot be more than 3.0m.

- **Site Erection**

On site the wall units are lowered over a single or double line of starter bars set into the concrete base slab. A double line of starter bars are used in situations where heavier weights are imposed on the walls or when the walls are above average height. Placement of these bars is by the main contractor and must be by agreement with Keegan Quarries Ltd. To ensure the correct placing and aligning of the twinwall a gap of 10mm is detailed between the units in all cases. This joint will remain once the units have been placed and concreted.

All of the horizontal and vertical panel/panel, panel/floor joints will have a steel mesh placed down their center prior to the core being filled with concrete. The core is filled with an approved concrete and will be filled up in meter lifts. The first meter is poured and vibrated to fix the panel to the starter bars. The second meter & subsequent meters are then poured in turn.