

Guidelines

Interbloc™ Cantilever Wall

The inherent flexibility of the Interbloc™ system mean there are many ways to engineer a wall depending on the unique requirements of a given project. The following info sheet provides information and design guides for an Interbloc™ Cantilever Wall. The information contained in this information sheet is designed first and foremost to be demonstrative of the capabilities of Interbloc™ walls. Each project will require specific design work by a suitable qualified professional.

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A Interbloc™ Cantilever Wall consists of vertically reinforced block elements anchored into a concrete foundation. This concrete foundation is usually a substantial element cast into excavated ground at the base of the walls. The tendency of the wall to “tip over” is resisted by the foundation element by moving the point of overturning further out from the wall face. The foundations can also extend back into the retained material and this assists resistance to over-turning by resisting the foundations tendency to rotate.

Interbloc™ Cantilever Walls can incorporate tie backs [see information sheet ‘Interbloc Tie Back Wall’] into the design which further resist over turning and help reduce foundation sizes, however it is important to take into account the practicalities of the project when choosing between these two wall types.

Interbloc™ Cantilever Walls are often used in retaining existing ground along boundary lines, as walls supporting bulk material storage (i.e fertiliser bunkers) where tie back installation is not appropriate or possible.

“What sets this product apart it...the ability to vertically reinforce after placement to increase out of plane bending capacity. This means the wall system is not limited by it gravity capacity, but can be reinforced to perform in a very similar manner to traditional reinforced concrete walls.”

Blueprint Consulting Engineers 2012

The following table provides a guide on the footing requirements and corresponding load capacities of a Interbloc™ Cantilever Wall.

