Webwall Addendum - Corners

General Advice

These instructions are supplementary to, and should be read in conjunction with, the Standard Webwall Installation Guide. These instructions provide advice on construction of Webwall corners and are not full installation instructions.

Supply (in addition to that in the Standard Webwall Installation Guide)

- Abgrid 30/30 geogrid

Site Preparation and Setting Out

Step 1
Set out the line of the corner and excavate a firm, level footing as per the Standard Webwall Installation Guide. Place pins at the beginning, corner point, and end of the section of wall you are working on. Run a string line between the three, marking out the front of the wall. Place a 1m x 1m square of Abgrid 30/30 geogrid at the corner and install 500mm long pins at approx. 500mm centres as shown (Fig. 1).

Step 2
Create a Webwall Corner Panel by trimming a standard panel to shape (Fig. 2).

Step 3
Expand the Webwall panels placing the green front cells over the pins and extend the panel from front to rear. Secure by driving 500mm long pins into the rear cells along the length of the panels (Fig. 3).

Step 4
Wrap the corner panel around the regular panel as shown (Fig. 4). Install 500mm pins to the wrapped face and where adjacent panels will connect. Ensure all pins are flush with the top of the panel. The panels should now be fully expanded and supported by pins.

Step 5
Ensure the panel is level with zero falls or a nominal slope down towards the back of the wall, and that adjacent panels are butted together as per the Standard Webwall Installation Guide.

Filling and Compaction

Refer to Standard Webwall Installation Guide

Fig. 1: Step 1 - String line, geogrid and front pins

Fig. 2: Step 2 - Create Webwall Corner Panel

Fig. 3: Step 3 - Webwall panels and rear pins

Fig. 4: Step 4 - Wrapping and connection pins
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Wall Construction

Step 1
Place another 1m square of geogrid at the corner and install 500mm long pins at closer spacings than previously (Fig. 5). Create another Webwall Corner Panel (Fig. 2) and expand the Webwall panels over the pins as before. The placement of the Standard and Corner Webwall Panels should be swapped at each lift to increase the strength of the corner (Fig. 5).

Step 2
Repeat Step 1 for further lifts with decreasing pin spacing as the total setback increases.

Step 3
Once the total setback is ≥ 500mm, cut the end cells off both the corner panel and the regular panel (Fig. 6). Cuts should be made at least 5mm beyond the joins in the Webwall panels. Place geogrid across the entire corner and install 500mm long pins at approx. 500mm centres and as shown (Fig. 7).

Step 4
Repeat as required until full height of wall is reached.

Notes

1. Applies to a corner in a Webwall only. When the wall is a straight line see the Standard Webwall Installation Guide. When the wall is to have a curve ABG should be contacted to provide an addendum installation guide to aid with the setting out and construction.

2. Reinforced Webwall designs will have a specific type of geogrid specified at locations shown in the design drawings. In this instance the same geogrid specified in the design can be used in lieu of Abgrid 30/30. Where geogrid reinforcing would otherwise overlap with the 1m square at the corner, the 1m square can be omitted.

3. When installing pins at the wrapped face and where adjacent panels connect, if the cell below is filled with topsoil a 750mm long pin should be used.

Terms and Conditions

Site specific engineering design should be carried out after site investigation has provided all the necessary information. The assessment of suitable safety factors in relation to each particular project must always remain the responsibility of the project’s design engineer. If any of the steps in this installation guide are not followed without written approval from ABG’s Technical Department this will invalidate the design and ABG will not be liable for any adverse consequences.