

cuttable • non-corrosive • non-magnetic • non-conductive • high strength • light weight

Marriott Hotel, Bellevue, Washington, USA

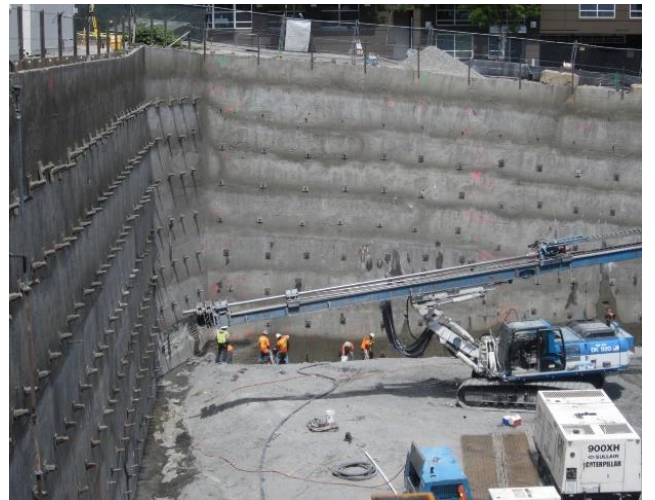
With the prospect of a future “cut and cover” on one side of a deep foundation in Bellevue, Washington; Malcolm Drilling’s John Kvinsland partnered with Williams Form Engineering Corp. (WFEC) to deliver two Glass Fibre Reinforced Polymer (GFRP) soil anchors that can hold 54 and 44 tonnes respectively and can easily be cut in the future.

Historically, the bearing connection end of GFRP bars were the weakest link to maximising the strength of GFRP soil anchors. Using B7X GeoDrill bar supplied from WFEC Engineering and mateenbar (a GFRP rebar) supplied by Pultron, gave Malcolm Drilling the required shear strength needed for their design and allowed WFEC the ability to terminate the mateenbar internally using Wil-Bond Resin. WFEC Engineering provided full documented testing along with manufacturing recommendations.

DeeJay Mott and the Portland manufacturing crew quickly adapted to using the new product as the lightweight nature of the mateenbar made the assembly and handling of the anchors much easier than before. The benefits of the lightweight revolutionary anchors allowed quick instalment on site.

At the completion of the deep foundation wall, using the mateenbar anchors had only 25% of the anticipated movement, a huge success. A success that has allowed WFEC to enter into a strong working relationship with Pultron.

This job demonstrates the progressive thinking required to keep soil anchor’s improving and Williams Form Engineering Corp has shown this in their innovative way to use a non-corrosive and cuttable reinforcement in conjunction with their B7X GeoDrill, to create an innovative solution to a tough situation.



Client:	Marriott Hotel
Consultant:	Williams Form Engineering Corp
Contractor:	Malcolm Drilling
Year:	2013
Location:	Bellevue, Washington, USA