

Boeing Caul Mezzanine

Charleston, South Carolina

Boeing constructed a new mezzanine in their existing facility. Micropiles were originally considered, however, there could be no dust or combustion engines near the plane fuselages. Also, hoses were not allowed to be run from the worksite to an outside location.

As an alternative, WEC installed helical piers, using a novel approach of installing a helical flight on every extension until capacity was achieved. Machinery was selected that could run on electricity rather than combustion engines. Extensions with flights were not available in the US and the helical manufacturer ran a special order 24 hours per day to meet schedule. Some piles were battered to resist lateral loads.

GC: Hightower Construction
Geotechnical Contractor: WEC

