

CEEn-2018CPST-002

Erickson Anchorage of Roof-Top Equipment

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Introduction

Description

Based on the ASCE 7-10 manual codes, create an automated tool to calculate lateral anchorage and wind loads of rooftop equipment





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Design, Analysis and Results



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Design, Analysis and Results





Conclusions and Recommendations

- We created an automated spreadsheet to calculate gravity and lateral anchorage loads of rooftop equipment (including solar panels, mechanical units, etc.)
- The spreadsheet was automated to accommodate several different scenarios such as varying sizes of equipment and different seismic loading requirements.
- Using AutoCAD, we created details to depict typical connections of rooftop equipment to the building structure.



The End