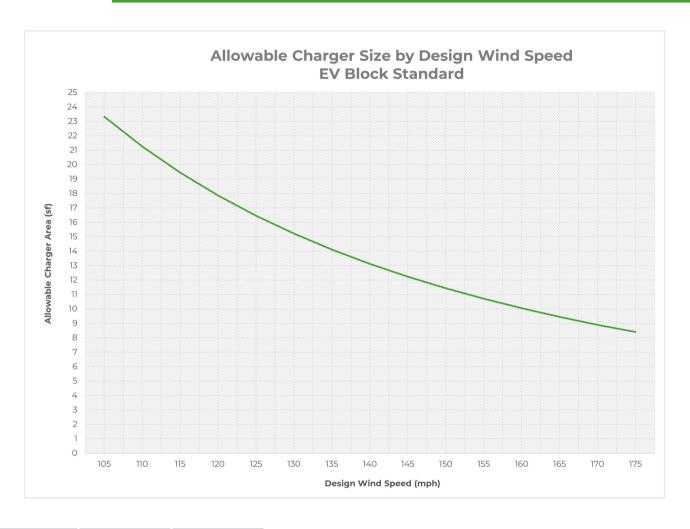


## **Adaptor Plate Connection Curve**

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Test #	Load Height (in.)	Max. Load (lb.)
1	30	2,717
2	30	2,637
3	30	2,563
Avg	30	2,639

## **Adaptor Plate Connection**

Average Ultimate Lateral Load, F<sub>ult</sub> 2,639 lbs.

Ultimate Moment Capacity,  $M_u$   $F_{ult}$  x Load Height = 6,597.5 ft·lb

Allowable Moment Capacity,  $M_{all}$   $M_u/3 = 2,199 \text{ ft·lb}$ 

Allowable Charger Area,  $CA_{all}$   $CA_{all} = \frac{\left(\frac{M_{all}}{CH/2}\right)}{0.00256 \, K_z \, K_{zt} \, K_d \, V^2 \, G \, C_f}$ 

Where:

CH = 8 ft (assumed total charger height)  $K_z = 0.85$  (ASCE 7 Section 29.3.1 - Exposure C)

 $K_{zt} = 1.0$  (ASCE 7 Section 26.8.2)  $K_{d} = 0.95$  (ASCE 7 Section 26.6)

V = per graph

G = 0.85 (ASCE 7 Section 26.9)

 $C_f = 1.2$  (ASCE 7 Figure 29.5.1 - very rough rounded)

The connection curve and analysis process outlined above is based upon the current version of ASCE 7. Use of this connection curve and calculations should reviewed by a qualified Professional Engineer prior to EV Block foundation installation. A qualified Engineer is one that is familiar with the site conditions, project information, soil mechanics and the design theory presented herein.