



2	3 4	5 6 7 ASCE 7-05	8 9	10 11 ASCE 7-05 W/ SEISMIC	12 1	3 14 15	16	17
		TILT WIND GROUND SLOPED ROOF MAX SPAN FOR	PCE   FORCE   DEFINATION	TILT WIND GROUND SLOPED ROOF MAX SPAN	TENSION SHEAR DEPTH 2 FT			
		0 PSF 0.00 PSF 13.5 FT 6.58	KIP 3.33 KIP 6.75 FT	0 PSF   0.00 PSF   12.0 FT	5.85 KIP 2.97 KIP 6.25 FT			
		20 PSF   12.37 PSF   11.5 FT   5.61						
		85 MPH 30 PSF 18.56 PSF 9.5 FT 4.62 40 PSF 24.74 PSF 8.0 FT 3.87	KIP 2.26 KIP 6.75 FT	40 PSF 24.74 PSF 5.5 FT	4.62 KIP       2.54 KIP       7.00 FT         2.57 KIP       1.61 KIP       5.50 FT			
		50 PSF 30.93 PSF 7.0 FT 3.35 60 PSF 37.11 PSF 6.0 FT 2.83	KIP 1.84 KIP 6.75 FT	50 PSF   30.93 PSF   4.5 FT   60 PSF   37.11 PSF   3.5 FT	2.02 KIP       1.34 KIP       5.50 FT         1.46 KIP       1.02 KIP       5.50 FT			
		0 PSF	KIP 3.47 KIP 7.00 FT	10 PSF   6.19 PSF   12.0 FT	6.63 KIP 3.33 KIP 6.50 FT 6.63 KIP 3.33 KIP 6.75 FT			
		90 MPH 20 PSF 12.37 PSF 11.0 FT 6.08 30 PSF 18.56 PSF 9.0 FT 4.95	KIP 2.70 KIP 7.00 FT	90 MPH 30 PSF 18.56 PSF 9.0 FT	6.08 KIP 3.11 KIP 7.25 FT 4.95 KIP 2.70 KIP 7.00 FT			
		40 PSF 24.74 PSF 8.0 FT 4.38 50 PSF 30.93 PSF 7.0 FT 3.80		40 PSF   24.74 PSF   5.5 FT   50 PSF   30.93 PSF   4.5 FT	2.91 KIP       1.77 KIP       5.50 FT         2.30 KIP       1.48 KIP       5.50 FT			
		60 PSF 37.11 PSF 6.0 FT 3.21 0 PSF 0.00 PSF 10.0 FT 6.92	KIP 3.44 KIP 6.25 FT	60 PSF   37.11 PSF   3.5 FT   0 PSF   0.00 PSF   10.0 FT	1.66 KIP 1.12 KIP 5.50 FT 6.92 KIP 3.44 KIP 6.25 FT			
		10 PSF   6.19 PSF   10.0 FT   6.92 20 PSF   12.37 PSF   9.5 FT   6.57			6.57 KIP 3.36 KIP 6.75 FT			
		100 MPH 30 PSF 18.56 PSF 9.0 FT 6.22 40 PSF 24.74 PSF 7.5 FT 5.14		100 MPH 30 PSF 18.56 PSF 9.0 FT 40 PSF 24.74 PSF 5.5 FT	6.22 KIP   3.27 KIP   7.25 FT   3.66 KIP   2.13 KIP   5.75 FT			
		50 PSF 30.93 PSF 6.5 FT 4.41 60 PSF 37.11 PSF 6.0 FT 4.04	VID 2 42 VID 6 75 ET	50 PSF 30.93 PSF 4.5 FT 60 PSF 37.11 PSF 3.5 FT	2.89 KIP   1.77 KIP   5.50 FT   2.10 KIP   1.34 KIP   5.50 FT			
		0 PSF 0.00 PSF 8.0 FT 6.74 10 PSF 6.19 PSF 8.0 FT 6.74	KIP   3.37 KIP   5.75 FT   KIP   3.42 KIP   6.00 FT	0 PSF   0.00 PSF   8.0 FT	6.74 KIP 3.37 KIP 5.75 FT 6.74 KIP 3.42 KIP 6.00 FT			
		20 PSF   12.37 PSF   8.0 FT   6.74 110 MPH   30 PSF   18.56 PSF   8.0 FT   6.74	KIP 3.48 KIP 6.50 FT	20 PSF   12.37 PSF   8.0 FT   110 MPH   30 PSF   18.56 PSF   8.0 FT	6.74 KIP 3.48 KIP 6.50 FT			
		40 PSF 24.74 PSF 7.0 FT 5.86 50 PSF 30.93 PSF 6.5 FT 5.41	KIP 3.19 KIP 6.75 FT	40 PSF   24.74 PSF   5.5 FT				
		60 PSF 37.11 PSF 5.5 FT 4.49 0 PSF 0.00 PSF 6.5 FT 6.50	KIP 2.62 KIP 6.50 FT	60 PSF 37.11 PSF 3.5 FT	2.59 KIP 1.58 KIP 5.50 FT			
		10 PSF 6.19 PSF 6.5 FT 6.50 20 PSF 12.37 PSF 6.5 FT 6.50	KIP 3.35 KIP 5.50 FT	10 PSF   6.19 PSF   6.5 FT	6.50 KIP 3.35 KIP 5.50 FT 6.50 KIP 3.40 KIP 6.00 FT			
		120 MPH 30 PSF 18.56 PSF 6.5 FT 6.50 40 PSF 24.74 PSF 6.5 FT 6.50	KIP 3.45 KIP 6.25 FT	120 MPH 30 PSF 18.56 PSF 6.5 FT	6.50 KIP 3.45 KIP 6.25 FT 5.40 KIP 2.97 KIP 6.00 FT			
		50 PSF 30.93 PSF 6.0 FT 5.96 60 PSF 37.11 PSF 5.5 FT 5.40	KIP 3.29 KIP 6.75 FT	50 PSF   30.93 PSF   4.5 FT	4.28 KIP 2.45 KIP 5.75 FT 3.12 KIP 1.84 KIP 5.50 FT			
		0 PSF 0.00 PSF 5.5 FT 6.39 10 PSF 6.19 PSF 5.5 FT 6.39	KIP 3.28 KIP 5.25 FT	0 PSF   0.00 PSF   5.5 FT	6.39 KIP 3.28 KIP 5.25 FT 6.39 KIP 3.32 KIP 5.25 FT			
		20 PSF 12.37 PSF 5.5 FT 6.39 130 MPH 30 PSF 18.56 PSF 5.5 FT 6.39	KIP 3.37 KIP 5.50 FT	20 PSF   12.37 PSF   5.5 FT				
		40 PSF 24.74 PSF 5.5 FT 6.39 50 PSF 30.93 PSF 5.5 FT 6.39	KIP 3.45 KIP 6.25 FT	40 PSF 24.74 PSF 5.5 FT 50 PSF 30.93 PSF 4.5 FT	6.39 KIP 3.45 KIP 6.25 FT			
		60 PSF 37.11 PSF 5.5 FT 6.39	KIP 3.54 KIP 6.75 FT		3.69 KIP 2.13 KIP 5.50 FT			
		ASCE 7-10  CROUND SLOPED TENS	DRILLED SHAFT	ASCE 7-10 W/ SEISMIC	DRILLED SHAFT			
		TILT   MIND   GROOND   DOOF   MAYSDAN   TENS	SON I SHEAR I	TILT WIND GROUND ROOF SNOW SNOW MAX SPAN	TENSION SHEAR DEPTH 2 FT DIAMETER X			
		0 PSF	KIP 3.49 KIP 6.75 FT	0 PSF	6.15 KIP 3.11 KIP 6.25 FT			
		20 PSF 12.37 PSF 11.5 FT 5.90 110 MPH 30 PSF 18.56 PSF 9.5 FT 4.86	KIP 3.03 KIP 7.25 FT	20 PSF   12.37 PSF   11.5 FT				
		40 PSF 24.74 PSF 8.0 FT 4.07 50 PSF 30.93 PSF 7.0 FT 3.53	KIP 2.35 KIP 6.75 FT		2.70 KIP 1.67 KIP 5.50 FT 2.13 KIP 1.39 KIP 5.50 FT			
		60 PSF 37.11 PSF 6.0 FT 2.98	KIP 1.91 KIP 6.75 FT	60 PSF   37.11 PSF   3.5 FT	1.54 KIP 1.06 KIP 5.50 FT			
		0 PSF	KIP 3.40 KIP 6.75 FT KIP 3.17 KIP 7.25 FT	0 PSF	6.78 KIP 3.40 KIP 6.75 FT 6.21 KIP 3.17 KIP 7.25 FT			
		115 MPH 30 PSF 18.56 PSF 9.0 FT 5.06 40 PSF 24.74 PSF 8.0 FT 4.48	KIP 2.75 KIP 7.00 FT	115 MPH 30 PSF 18.56 PSF 9.0 FT 40 PSF 24.74 PSF 5.5 FT	5.06 KIP   2.75 KIP   7.00 FT			
		50 PSF 30.93 PSF 7.0 FT 3.89 60 PSF 37.11 PSF 6.0 FT 3.28	KIP 2.32 KIP 6.75 FT	50 PSF   30.93 PSF   4.5 FT	2.35 KIP   1.50 KIP   5.50 FT			
		0 PSF 0.00 PSF 9.5 FT 6.97 10 PSF 6.19 PSF 9.5 FT 6.97	KIP 3.46 KIP 6.25 FT	0 PSF 0.00 PSF 9.5 FT				
		20 PSF 12.37 PSF 9.0 FT 6.59 130 MPH 30 PSF 18.56 PSF 8.5 FT 6.21	KIP 3.38 KIP 6.75 FT		6.59 KIP 3.38 KIP 6.75 FT			
		40 PSF 24.74 PSF 7.5 FT 5.45	KIP 3.00 KIP 6.75 FT	40 PSF 24.74 PSF 5.5 FT	3.89 KIP 2.24 KIP 5.75 FT			
		25° 50 PSF 30.93 PSF 6.5 FT 4.68 60 PSF 37.11 PSF 6.0 FT 4.28	KIP 2.54 KIP 6.75 FT	60 PSF 37.11 PSF 3.5 FT	2.23 KIP 1.40 KIP 5.50 FT			
		10 PSF   0.00 PSF   8.0 FT   6.83	KIP 3.46 KIP 5.75 FT 6.00 FT	10 PSF   0.00 PSF   8.0 FT	6.83 KIP 3.41 KIP 5.75 FT 6.83 KIP 3.46 KIP 6.00 FT			
		20 PSF 12.37 PSF 8.0 FT 6.83 140 MPH 30 PSF 18.56 PSF 8.0 FT 6.83	KIP   3.58 KIP   6.75 FT		6.83 KIP 3.58 KIP 6.75 FT			
		40 PSF 24.74 PSF 7.0 FT 5.93 50 PSF 30.93 PSF 6.5 FT 5.48	KIP 3.07 KIP 6.75 FT	50 PSF   30.93 PSF   4.5 FT	4.55 KIP 2.56 KIP 5.75 FT 3.60 KIP 2.12 KIP 5.50 FT			
		60 PSF 37.11 PSF 5.5 FT 4.55 0 PSF 0.00 PSF 7.0 FT 6.86	KIP 3.46 KIP 5.50 FT	0 PSF   0.00 PSF   7.0 FT	2.62 KIP			
		10 PSF 6.19 PSF 7.0 FT 6.86 20 PSF 12.37 PSF 7.0 FT 6.86	KIP 3.56 KIP 6.00 FT	20 PSF   12.37 PSF   7.0 FT				
		150 MPH 30 PSF 18.56 PSF 7.0 FT 6.86 40 PSF 24.74 PSF 7.0 FT 6.86	KIP 3.67 KIP 6.75 FT	40 PSF   24.74 PSF   5.5 FT	6.86 KIP 3.62 KIP 6.50 FT 5.27 KIP 2.91 KIP 6.00 FT			
		50 PSF 30.93 PSF 6.0 FT 5.81 60 PSF 37.11 PSF 5.5 FT 5.27	KIP 2.99 KIP 6.50 FT	<u> </u>	3.04 KIP   1.80 KIP   5.50 FT			
		0 PSF	KIP 3.43 KIP 5.25 FT	10 PSF   6.19 PSF   6.0 FT	6.65 KIP 3.38 KIP 5.25 FT 6.65 KIP 3.43 KIP 5.25 FT			
		20 PSF   12.37 PSF   6.0 FT   6.65 160 MPH   30 PSF   18.56 PSF   6.0 FT   6.65	KIP 3.53 KIP 6.00 FT	160 MPH 30 PSF 18.56 PSF 6.0 FT				
		40 PSF 24.74 PSF 6.0 FT 6.65 50 PSF 30.93 PSF 6.0 FT 6.65 60 PSF 37.11 PSF 5.5 FT 6.04	KIP 3.57 KIP 6.50 FT	40 PSF     24.74 PSF     5.5 FT       50 PSF     30.93 PSF     4.5 FT       60 PSF     37.11 PSF     3.5 FT	6.04 KIP 3.28 KIP 6.00 FT 4.78 KIP 2.70 KIP 5.75 FT			
		CONCRETE FOOTING NOTES:			3.49 KIP 2.03 KIP 5.50 FT			
		WHERE THE DISTANCE BETWEEN BOTTOM OF POST TO THE BOTTOM OF COIF EMBEDDED POST LENGTH EXCEEDS DEPTH OF CONCRETE FOOTING, POST CLEAR COVER IS TO BE MAINTAINED.  GROUND CLEARANCE MAY VARY FROM 3' MAXIMUM TO 2' MINIMUM.						
: CHECKED: REVIEWED: API	PROVED: REVISIONS:  New Drawing	Client:	SCHLETTER	Standard FS 72 Cell - 25°	Project Site:	Drawing Number:		
/14/2015 /20/2015	Update Post Lengths and Embedments Update Post Lengths and Embedments	Schletter Inc.	CHLETTER	Racking Structure	Schletter Inc.			
5/2015 11/2015	Update Embedments Update Post Lengths	2201 North Forbes Boulevard	3761 E. FARNUM PLACE   TUCSON, AZ 85706		1001 Commerce Center Dr	v.02		
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