

Determining Pole and Flag Size (20' to 30' Poles)

Select Pole Size

The following chart lists our standard flagpole models. Finding the pole you need is as easy as 1, 2, 3.

1. First, select the exposed height you desire.
2. Next, determine the windspeed you expect in the flagpole location. See windspeed maps. Maximum flag sizes are listed for the wind zones for each pole.
3. This will enable you to select a pole model of appropriate butt and top diameter and wall thickness.

1. Exp. Height	* Overall Height	Butt Dia.	Top Dia.	Wall Thickness	# of Shaft Sections	3. Model Number**			Flag Sizes	Unflagged Windspeeds	85 MPH
						EXTERNAL*** (Patriot Series)	INTERNAL (Commercial Series)	GUARDIAN (Guardian Series)			
20'	22'	3"	2"	.125"	1	ST203	*	*	cleat	123	5'x8' nylon 4'x6' poly
	22'	3.5"	2"	.125"	1	ST2035	*	*	winch	134	10'x19' nylon 6'x10' poly
	22'	4"	2"	.125"	1	ST204	*	GI22411	cam cleat	163	20'x38' nylon 12'x18' poly
	23'	5"	3"	.125"	1	ST23511	CI23511	GI23511		255	20'x38' nylon 20'x38' poly
	23'	5"	3"	.188"	1	ST23531	CI23531	GI23531		316	20'x38' nylon 20'x38' poly
25'	27.5'	4"	2"	.125"	1	ST254	*	GI285411		120	8'x12' nylon 5'x8' poly
	28'	5"	3"	.125"	1	ST28511	CI28511	GI28511		154	20'x30' nylon 12'x18' poly
	28'	5"	3"	.156"	1	ST28521	CI28521	GI28521		201	20'x38' nylon 20'x30' poly
	28'	5"	3"	.188"	1	ST28531	CI28531	GI28531		235	20'x38' nylon 20'x38' poly
	28'	5.5"	3.5"	.188"	1	ST285531	CI285531	GI285531		256	20'x38' nylon 20'x38' poly
	28'	6"	3.5"	.156"	1	ST28621	CI28621	GI28621		257	20'x38' nylon 20'x38' poly
	28'	6"	3.5"	.188"	1	ST28631	CI28631	GI28631		279	20'x38' nylon 20'x38' poly
30'	33'	5"	3"	.125"	1	ST33511	CI33511	GI33511		110	6'x10' nylon 5'x8' poly
					2	ST33512	CI33512	GI33512		109	6'x10' nylon 3'x5' poly
	33'	5"	3"	.156"	1	ST33521	CI33521	GI33521		126	12'x18' nylon 8'x12' poly
					2	ST33522	CI33522	GI33522			12'x18' nylon 8'x12' poly
	33'	5"	3"	.188"	1	ST33531	CI33531	GI33531		146	20'x30' nylon 12'x18' poly
					2	ST33532	CI33532	GI33532			20'x30' nylon 12'x18' poly
	33'	6"	3.5"	.156"	1	ST33621	CI33621	GI33621		195	30'x50' nylon 20'x30' poly
					2	ST33622	CI33622	GI33622			30'x50' nylon 20'x30' poly
	33'	6"	3.5"	.188"	1	ST33631	CI33631	GI33631		221	30'x50' nylon 30'x50' poly
					2	ST33632	CI33632	GI33632			30'x50' nylon 30'x50' poly
33'	6"	3.5"	.250"	1	ST33641	CI33641	GI33641		259	30'x50' nylon 30'x50' poly	
				2	ST33642	CI33642	GI33642		258	30'x50' nylon 30'x50' poly	

These calculations are based on embedded ground mounting with use of a standard sized nylon flag.

- * Overall shaft lengths include 10% additional length required for standard embedded foundation mounting.
- ** Last digit in model number indicates the number of flagpole sections. (Example: ST881263 has 3 sections.)
- *** To order Commercial External poles with a double truck system change the beginning of the model number from "ST" to "DT".

FLAG CHOICES FOR WIND ZONES (continued)						
90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPH
4'x6' nylon 3'x5' poly	*	*	*	*	*	*
8'x12' nylon 5'x8' poly	5'x8' nylon 3'x5' poly	*	*	*	*	*
20'x30' nylon 10'x19' poly	10'x15' nylon 6'x10' poly	5'x8' nylon 4'x6' poly	3'x5' nylon	*	*	*
20'x38' nylon 20'x38' poly	20'x38' nylon 15'x25' poly	20'x30' nylon 8'x12' poly	10'x15' nylon 6'x10' poly	6'x10' nylon 4'x6' poly	5'x8' nylon 3'x5' poly	4'x6' nylon
20'x38' nylon 20'x38' poly	20'x38' nylon 20'x38' poly	20'x38' nylon 20'x38' poly	20'x38' nylon 20'x30' poly	20'x38' nylon 12'x18' poly	20'x38' nylon 8'x12' poly	10'x15' nylon 6'x10' poly
6'x10' nylon 4'x6' poly	3'x5' nylon	*	*	*	*	*
12'x18' nylon 8'x12' poly	6'x10' nylon 5'x8' poly	4'x6' nylon 3'x5' poly	*	*	*	*
20'x38' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	8'x12' nylon 5'x8' poly	5'x8' nylon 4'x6' poly	4'x6' nylon	*	*
20'x38' nylon 20'x38' poly	20'x38' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	8'x12' nylon 6'x10' poly	6'x10' nylon 4'x6' poly	4'x6' nylon 3'x5' poly	3'x5' nylon
20'x38' nylon 20'x38' poly	20'x38' nylon 20'x30' poly	20'x38' nylon 12'x18' poly	15'x25' nylon 8'x12' poly	10'x19' nylon 6'x10' poly	8'x12' nylon 5'x8' poly	6'x10' nylon 4'x6' poly
20'x38' nylon 20'x38' poly	20'x38' nylon 20'x38' poly	20'x38' nylon 12'x18' poly	15'x25' nylon 10'x15' poly	12'x18' nylon 6'x10' poly	8'x12' nylon 5'x8' poly	6'x10' nylon 4'x6' poly
20'x38' nylon 20'x38' poly	20'x38' nylon 20'x38' poly	20'x38' nylon 20'x38' poly	20'x38' nylon 12'x18' poly	20'x30' nylon 10'x19' poly	12'x18' nylon 8'x12' poly	10'x15' nylon 6'x10' poly
5'x8' nylon 3'x5' poly	*	*	*	*	*	*
5'x8' nylon 3'x5' poly	*	*	*	*	*	*
10'x15' nylon 6'x10' poly	5'x8' nylon 3'x5' poly	*	*	*	*	*
10'x15' nylon 6'x10' poly	5'x8' nylon 3'x5' poly	*	*	*	*	*
15'x25' nylon 10'x15' poly	8'x12' nylon 5'x8' poly	5'x8' nylon 3'x5' poly	*	*	*	*
15'x25' nylon 10'x15' poly	8'x12' nylon 5'x8' poly	5'x8' nylon 3'x5' poly	*	*	*	*
30'x50' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	8'x12' nylon 5'x8' poly	6'x10' nylon 4'x6' poly	4'x6' nylon	3'x5' nylon	*
30'x50' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	8'x12' nylon 5'x8' poly	6'x10' nylon 4'x6' poly	4'x6' nylon	3'x5' nylon	*
30'x50' nylon 20'x38' poly	20'x38' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	10'x15' nylon 6'x10' poly	6'x10' nylon 4'x6' poly	5'x8' nylon 4'x6' poly	4'x6' nylon
30'x50' nylon 20'x38' poly	20'x38' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	10'x15' nylon 6'x10' poly	6'x10' nylon 4'x6' poly	5'x8' nylon 4'x6' poly	4'x6' nylon
30'x50' nylon 30'x50' poly	30'x50' nylon 15'x25' poly	30'x50' nylon 15'x25' poly	20'x30' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	10'x19' nylon 6'x10' poly	8'x12' nylon 5'x8' poly
30'x50' nylon 30'x50' poly	30'x50' nylon 30'x50' poly	30'x50' nylon 15'x25' poly	20'x30' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	10'x19' nylon 6'x10' poly	8'x12' nylon 5'x8' poly

Determining Pole and Flag Size (35' to 80' Poles)

Select Pole Size

The following chart lists our standard flagpole models. Finding the pole you need is as easy as 1, 2, 3.

1. First, select the exposed height you desire.
2. Next, determine the windspeed you expect in the flagpole location. See windspeed maps. Maximum flag sizes are listed for the wind zones for each pole.
3. This will enable you to select a pole model of appropriate butt and top diameter and wall thickness.

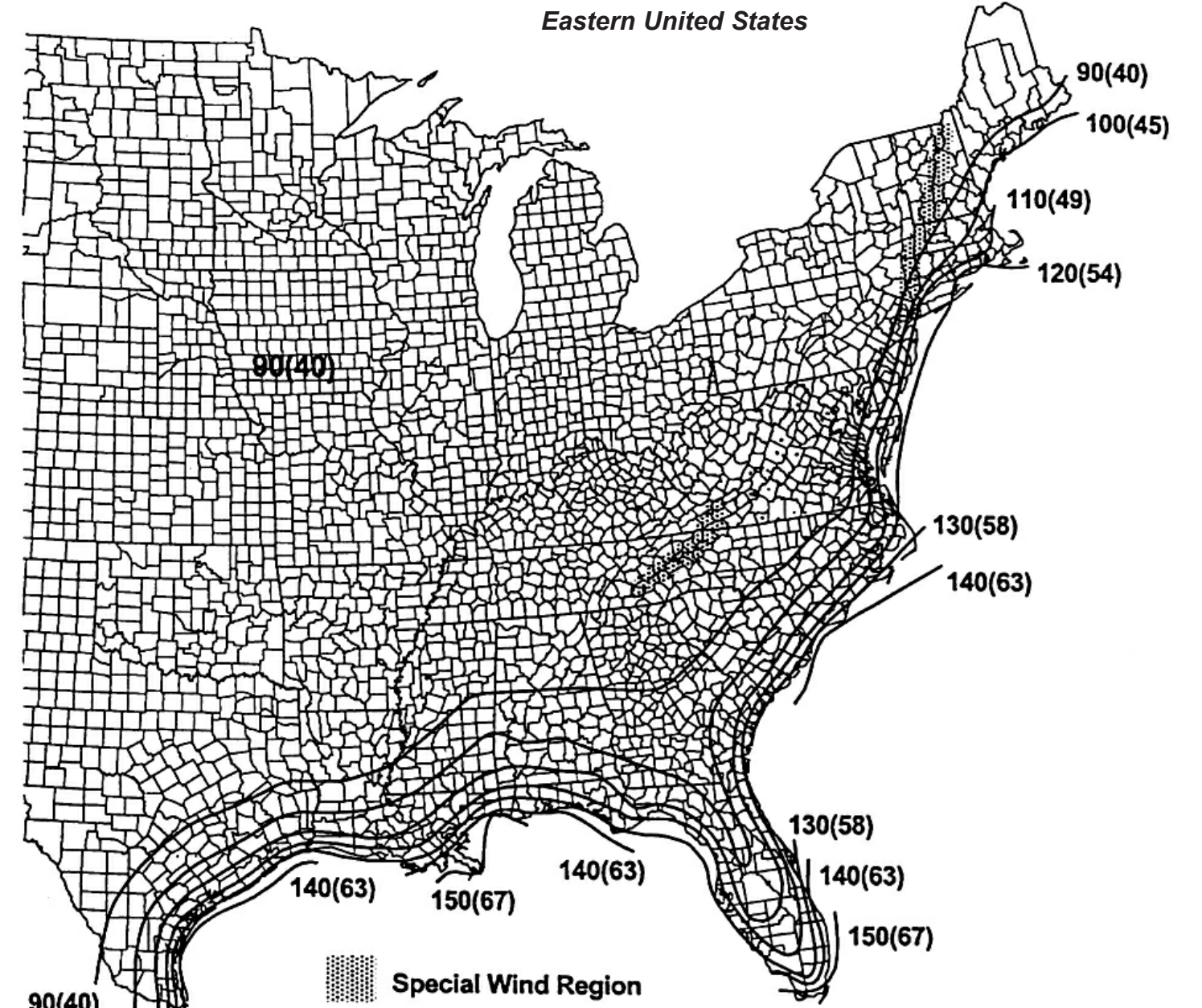
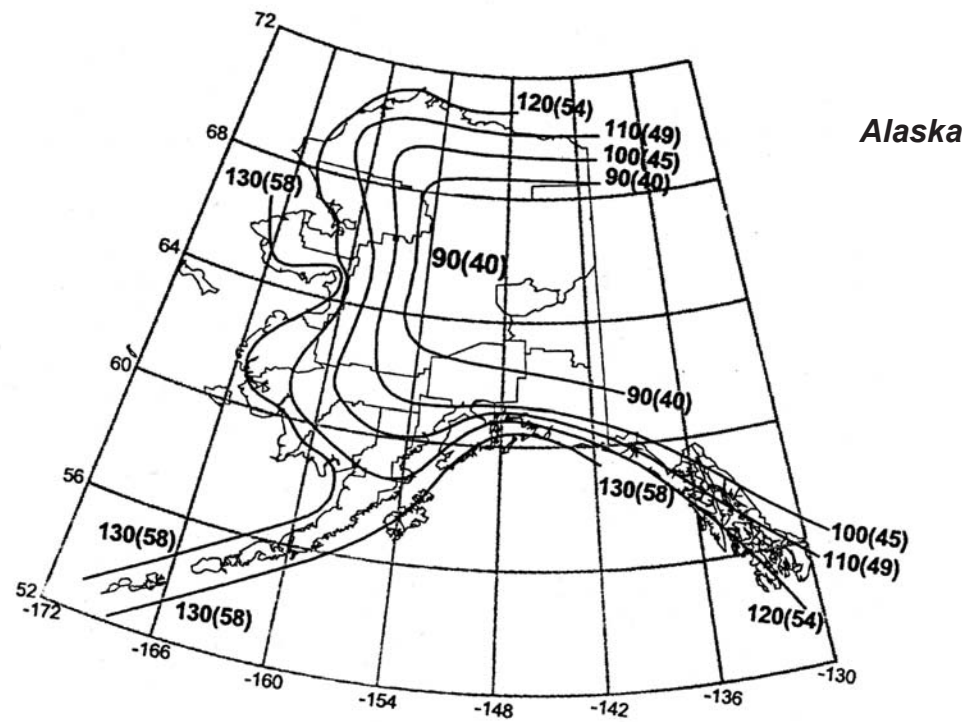
1. Exp. Height	* Overall Height	Butt Dia.	Top Dia.	Wall Thickness	# of Shaft Sections	3. Model Number**			Std Flag Sizes	Unflagged Windspeeds		
						EXTERNAL *** (Patriot Series) cleat	INTERNAL (Commercial Series) winch	GUARDIAN (Guardian Series) cam cleat		MPH	85 MPH	
35'	38.5'	6"	3.5"	.156"	1	ST385621	CI385621	GI385621	5'X8' std 6'x10' opt	129	12'x18' nylon 8'x12' poly	
					2	ST385622	CI385622	GI385622			12'x18' nylon 8'x12' poly	
	38.5'	7"	3.5"	.156"	1	ST385721	CI385721	GI385721		184	30'x50' nylon 20'x30' poly	
					2	ST385722	CI385722	GI385722			30'x50' nylon 20'x30' poly	
	38.5'	7"	3.5"	.188"	1	ST385731	CI385731	GI385731		209	30'x50' nylon 30'x50' poly	
					2	ST385732	CI385732	GI385732			30'x50' nylon 30'x50' poly	
	38.5'	7"	3.5"	.250"	1	ST385741	CI385741	GI385741		243	30'x50' nylon 30'x50' poly	
					2	ST385742	CI385742	GI385742			30'x50' nylon 30'x50' poly	
	40'	44'	7"	3.5"	.156"	2	ST44722	CI44722	GI44722	6'x10' std	139	15'x25' nylon 10'x15' poly
						2	ST44822	CI44822	GI44822			180
44'		8"	3.5"	.188"	2	ST44832	CI44832	GI44832	8'x12' opt	203	30'x50' nylon 30'x50' poly	
					2	ST44842	CI44842	GI44842			240	30'x50' nylon 30'x50' poly
45'	49.5'	8"	3.5"	.188"	2	ST495832	CI495832	*	6'x10' std	166	30'x50' nylon 20'x30' poly	
					2	ST495842	CI495842	*		8'x12' opt	203	30'x50' nylon 30'x50' poly
50'	55'	8"	3.5"	.188"	3	ST55833	CI55833	*	8'x12' std	127	15'x25' nylon 10'x19' poly	
					3	ST551033	CI551033	*		10'x15' opt	184	30'x50' nylon 30'x50' poly
	3	ST551043	CI551043	*		215	30'x50' nylon 30'x50' poly					
60'	66'	10"	4"	.188"	3	ST661033	CI661033	*	10'x15' std	136	20'x30' nylon 12'x18' poly	
					3	ST661043	CI661043	*		12'x18' opt	166	30'x50' nylon 20'x38' poly
	3	ST661243	CI661243	*		207	30'x50' nylon 30'x50' poly					
70'	77'	10"	4"	.312"	3	ST771053	CI771053	*	12'x18' std	145	30'x50' nylon 20'x30' poly	
					3	ST771243	CI771243	*		15'x25' opt	166	30'x50' nylon 30'x50' poly
80'	88'	12"	3.9"	.375"	3	ST881263	CI881263	*	12'x18' std 20'x30' opt	171	30'x50' nylon 30'x50' poly	

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- * Overall shaft lengths include 10% additional length required for standard embedded foundation mounting.
- ** Last digit in model number indicates the number of flagpole sections. (Example: ST881263 has 3 sections.)
- *** To order Commercial External poles with a double truck system change the beginning of the model number from "ST" to "DT".

FLAG CHOICES FOR WIND ZONES (continued)						
90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPH
10'x15' nylon 6'x10' poly	5'x8' nylon 3'x5' poly	*	*	*	*	*
10'x15' nylon 6'x10' poly	5'x8' nylon 3'x5' poly	*	*	*	*	*
20'x38' nylon 15'x25' poly	15'x25' nylon 10'x15' poly	10'x15' nylon 6'x10' poly	6'x10' nylon 4'x6' poly	4'x6' nylon 3'x5' poly	3'x5' nylon	*
20'x38' nylon 15'x25' poly	15'x25' nylon 10'x15' poly	10'x15' nylon 6'x10' poly	6'x10' nylon 4'x6' poly	4'x6' nylon 3'x5' poly	3'x5' nylon	*
30'x50' nylon 20'x38' poly	20'x38' nylon 15'x25' poly	15'x25' nylon 10'x15' poly	10'x18' nylon 8'x12' poly	8'x12' nylon 5'x8' poly	6'x10' nylon 4'x6' poly	4'x6' nylon 3'x5' poly
30'x50' nylon 20'x38' poly	20'x38' nylon 15'x25' poly	15'x25' nylon 10'x15' poly	10'x18' nylon 8'x12' poly	8'x12' nylon 5'x8' poly	6'x10' nylon 4'x6' poly	4'x6' nylon 3'x5' poly
30'x50' nylon 30'x50' poly	30'x50' nylon 30'x50' poly	30'x50' nylon 20'x30' poly	20'x38' nylon 12'x18' poly	15'x25' nylon 10'x15' poly	12'x18' nylon 8'x12' poly	10'x15' nylon 6'x10' poly
30'x50' nylon 30'x50' poly	30'x50' nylon 30'x50' poly	30'x50' nylon 20'x30' poly	20'x38' nylon 12'x18' poly	15'x25' nylon 10'x15' poly	12'x18' nylon 8'x12' poly	10'x15' nylon 6'x10' poly
12'x18' nylon 8'x12' poly	6'x10' nylon 4'x6' poly	3'x5' nylon	*	*	*	*
20'x38' nylon 15'x25' poly	15'x25' nylon 10'x19' poly	10'x19' nylon 6'x10' poly	6'x10' nylon 5'x8' poly	5'x8' nylon 3'x5' poly	3'x5' nylon	*
30'x50' nylon 20'x38' poly	20'x38' nylon 15'x25' poly	15'x25' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	8'x12' nylon 6'x10' poly	6'x10' nylon 4'x6' poly	5'x8' nylon 3'x5' poly
30'x50' nylon 30'x50' poly	30'x50' nylon 30'x50' poly	30'x50' nylon 20'x30' poly	20'x38' nylon 12'x18' poly	15'x25' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	10'x19' nylon 6'x10' poly
20'x38' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	8'x12' nylon 6'x10' poly	5'x8' nylon 4'x6' poly	*	*	*
30'x50' nylon 20'x38' poly	20'x38' nylon 15'x25' poly	20'x30' nylon 12'x18' poly	12'x18' nylon 10'x15' poly	10'x15' nylon 6'x10' poly	6'x10' nylon 5'x8' poly	5'x8' nylon 3'x5' poly
30'x50' nylon 30'x50' poly	30'x50' nylon 30'x50' poly	30'x50' nylon 20'x38' poly	20'x38' nylon 15'x25' poly	20'x30' nylon 12'x18' poly	15'x25' nylon 10'x15' poly	12'x18' nylon 8'x12' poly
15'x25' nylon 10'x15' poly	8'x12' nylon 6'x10' poly	5'x8' nylon 3'x5' poly	*	*	*	*
30'x50' nylon 20'x38' poly	20'x38' nylon 12'x18' poly	12'x18' nylon 10'x15' poly	10'x15' nylon 6'x10' poly	6'x10' nylon 4'x6' poly	4'x6' nylon 3'x5' poly	*
30'x50' nylon 30'x50' poly	30'x50' nylon 30'x50' poly	30'x50' nylon 20'x38' poly	30'x50' nylon 20'x30' poly	20'x38' nylon 12'x18' poly	15'x25' nylon 10'x19' poly	12'x18' nylon 8'x12' poly
20'x38' nylon 15'x25' poly	12'x18' nylon 10'x15' poly	8'x12' nylon 6'x10' poly	5'x8' nylon 4'x6' poly	*	*	*
30'x50' nylon 20'x38' poly	20'x38' nylon 15'x25' poly	15'x25' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	8'x12' nylon 6'x10' poly	5'x8' nylon 4'x6' poly	3'x5' nylon
30'x50' nylon 30'x50' poly	30'x50' nylon 30'x50' poly	20'x38' nylon 15'x25' poly	15'x25' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	8'x12' nylon 5'x8' poly	4'x6' nylon 3'x5' poly

Windspeed Charts



 **Special Wind Region**

Location	V mph	(m/s)
Hawaii	105	(47)
Puerto Rico	145	(65)
Guam	170	(76)
Virgin Islands	145	(65)
American Samoa	125	(56)

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