

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

## Select Pole Size (EZ Spec Step 2)

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 on pages 10-11. 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.

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

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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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 12'x18' poly	20'x38' nylon 8'x12' poly	12'x18' 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									

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

## Select Pole Size (EZ Spec Step 2)

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 on pages 10-11. 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. (2a) Exp. Height	(2b)* Overall Height	(2c) Butt Dia.	(2d) Top Dia.	(2e) Wall Thickness	# of Shaft Sections	3. (2f) Model Number**			Std Flag Sizes	Unflagged Windspeeds	
						EXTERNAL*** (Patriot Series) cleat	INTERNAL (Commercial Series) winch	GUARDIAN (Guardian Series) cam cleat			
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		184	30'x50' nylon 20'x30' poly
	38.5'	7"	3.5"	.156"	1	ST385721	CI385721	GI385721		30'x50' nylon 20'x30' poly	10'x15' nylon 6'x10' poly
					2	ST385722	CI385722	GI385722		209	30'x50' nylon 30'x50' poly
	38.5'	7"	3.5"	.188"	1	ST385731	CI385731	GI385731		30'x50' nylon 30'x50' poly	30'x50' nylon 20'x30' poly
					2	ST385732	CI385732	GI385732		243	30'x50' nylon 30'x50' poly
	38.5'	7"	3.5"	.250"	1	ST385741	CI385741	GI385741		30'x50' nylon 30'x50' poly	30'x50' nylon 30'x50' poly
					2	ST385742	CI385742	GI385742		30'x50' nylon 30'x50' poly	30'x50' nylon 30'x50' poly
	44'	7"	3.5"	.156"	2	ST44722	CI44722	GI44722		139	15'x25' nylon 10'x15' poly
	44'	8"	3.5"	.156"	2	ST44822	CI44822	GI44822		180	30'x50' nylon 20'x30' poly
40'	44'	8"	3.5"	.188"	2	ST44832	CI44832	GI44832	8'x12' opt	203	30'x50' nylon 30'x50' poly
	44'	8"	3.5"	.250"	2	ST44842	CI44842	GI44842		240	30'x50' nylon 30'x50' poly
	49.5'	8"	3.5"	.188"	2	ST495832	CI495832	*		166	30'x50' nylon 20'x30' poly
	49.5'	8"	3.5"	.250"	2	ST495842	CI495842	*		203	30'x50' nylon 30'x50' poly
45'	55'	8"	3.5"	.188"	3	ST55833	CI55833	*	6'x10' std	127	15'x25' nylon 10'x19' poly
	55'	10"	4"	.188"	3	ST551033	CI551033	*		184	30'x50' nylon 30'x50' poly
	55'	10"	4"	.250"	3	ST551043	CI551043	*		215	30'x50' nylon 30'x50' poly
	66'	10"	4"	.188"	3	ST661033	CI661033	*		136	20'x30' nylon 12'x18' poly
60'	66'	10"	4"	.250"	3	ST661043	CI661043	*	10'x15' std	166	30'x50' nylon 20'x38' poly
	66'	12"	4.4"	.250"	3	ST661243	CI661243	*		207	30'x50' nylon 30'x50' poly
	77'	10"	4"	.312"	3	ST771053	CI771053	*		145	30'x50' nylon 20'x30' poly
70'	77'	12"	4"	.250"	3	ST771243	CI771243	*	15'x25' opt	166	30'x50' nylon 30'x50' poly
	77'	12"	4"	.250"	3	ST771243	CI771243	*		171	30'x50' nylon 30'x50' poly
	88'	12"	3.9"	.375"	3	ST881263	CI881263	*		171	30'x50' nylon 30'x50' poly

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

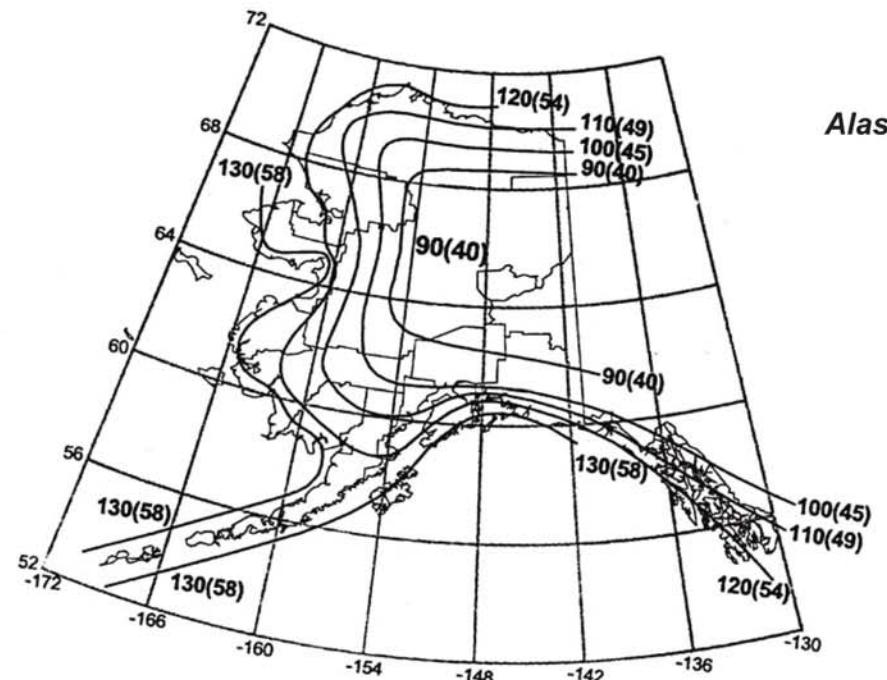
\* Overall shaft lengths include 10% additional length required for standard embedded foundation mounting.

\*\* 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
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 20'x30' poly	20'x38' nylon 15'x25' poly	20'x38' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	15'x25' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	10'x15' poly	8'x12' poly	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	12'x18' nylon 8'x12' poly	10'x15' nylon 8'x12' poly	6'x10' nylon 5'x8' poly	4'x6' nylon 3'x5' poly	3'x5' nylon			
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'x15' 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 30'x50' poly	30'x50' nylon 20'x30' poly	20'x38' nylon 15'x25' 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			
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	12'x18' nylon 8'x12' poly	10'x15' nylon 8'x12' poly	6'x10' nylon 5'x8' poly	4'x6' nylon 3'x5' poly	3'x5' nylon			
12'x18' nylon 8'x12' poly	6'x10' nylon 4'x6' poly	3'x5' nylon	*	*	*	*	*	*	
30'x50' nylon 20'x38' poly	20'x38' nylon 15'x25' poly	20'x30' nylon 15'x25' poly	12'x18' nylon 10'x15' poly	10'x15' nylon 8'x12' poly	6'x10' nylon 5'x8' poly	5'x8' poly	3'x5' poly	3'x5' poly	3'x5' poly
30'x50' nylon 30'x50' poly	30'x50' nylon 20'x38' poly	30'x50' nylon 20'x38' poly	20'x38' nylon 15'x25' poly	20'x38' nylon 12'x18' poly	15'x25' poly 12'x18' poly	12'x18' poly 10'x15' poly	10'x15' poly 8'x12' poly	10'x15' poly 8'x12' poly	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 15'x25' poly	12'x18' nylon 10'x15' poly	10'x15' nylon 8'x12' poly	6'x10' nylon 4'x6' poly	4'x6' nylon 3'x5' poly	3'x5' poly			
30'x50' nylon 30'x50' poly	30'x50' nylon 20'x38' poly	30'x50' nylon 20'x38' poly	20'x38' nylon 15'x25' poly	20'x38' nylon 12'x18' poly	15'x25' poly 12'x18' poly	12'x18' poly 10'x15' poly	10'x15' poly 8'x12' poly	10'x15' poly 8'x12' poly	8'x12' poly
20'x38' nylon 15'x25' poly	12'x18' nylon 10'x15' poly	8'x12' nylon 6'x10' poly	5'x8' poly	*	*	*	*	*	

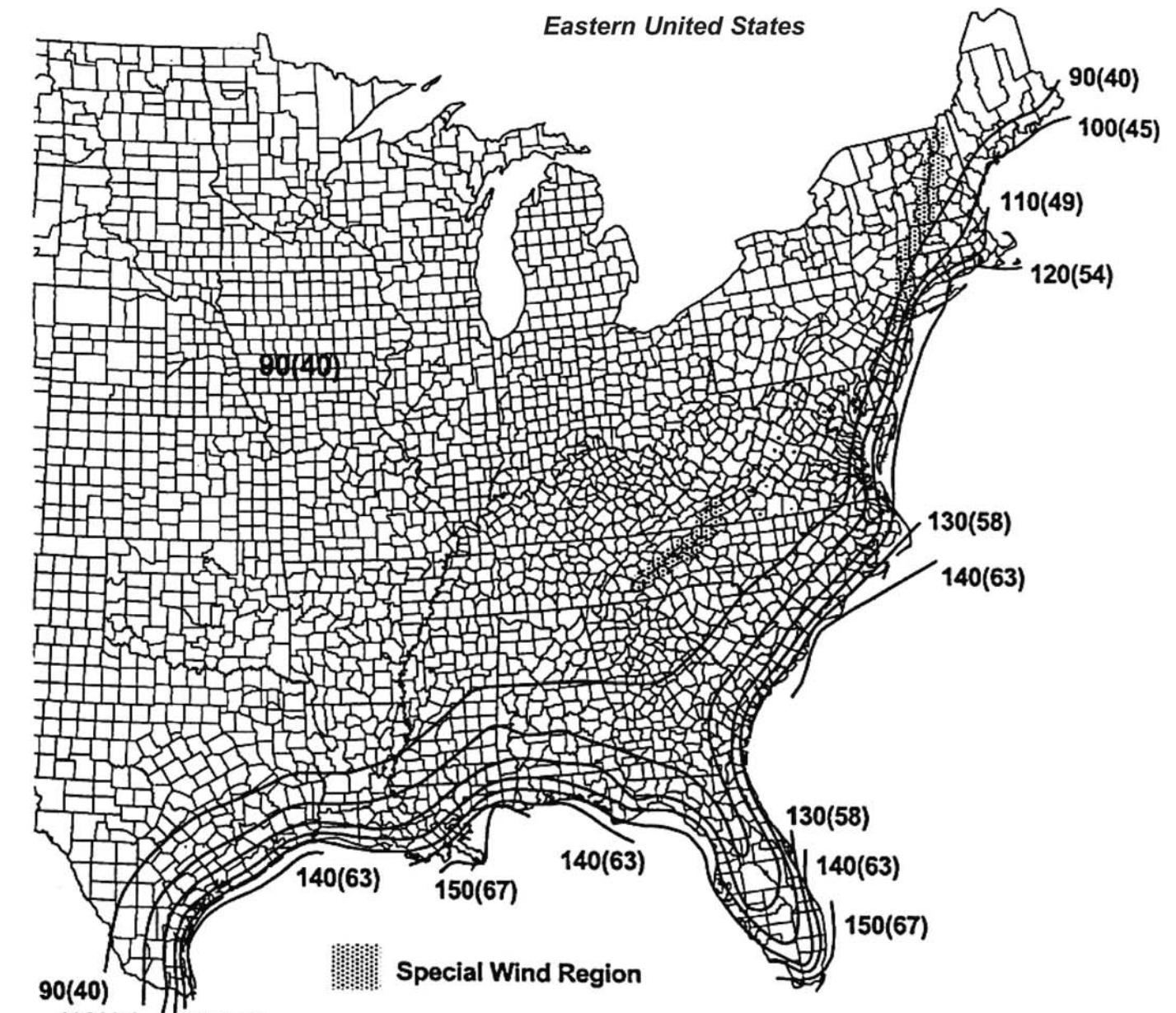
# Windspeed Charts



Alaska



Western United States



Eastern United States

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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