

MORGAN-FRANCIS

FLAGPOLES & ACCESSORIES

www.morgan-francis.com



A flagpole adds visual impact to any landscape. More than that, it is a symbol of heritage, ideals, sacrifice and pride. At Morgan-Francis, we've been manufacturing quality flagpoles for over fifty years. From our start as a regional New England supplier, we've grown into a national provider of flagpoles for government, commercial and individual projects of all types and sizes.

- We can assist with:
- Product selection
 - Design layout
 - Engineering information
 - Project referral



Design & Product Guide

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NAAMM

National Association of Architectural Metal Manufacturers
MEMBER

EZ Spec Guide / About Us

EZ Spec System

Our EZ Specs Guide makes selecting an aluminum flagpole a breeze. This guide should be used for standard embedded designed flagpoles only. If you need help with other flagpole designs please call. Morgan-Francis staff is able to provide complete assistance.

Steps 1 and 2 let you select flagpole type and size. Overall shaft lengths include 10% additional length required for standard embedded foundation mounting. Shafts over a certain length are shipped in multiple sections as indicated by the last digit in the model number.

Steps 3 through 6 lead you through standard fittings, finishes, mounting and other available options. Copy the EZ Spec Guide so you can use it whenever you specify flagpoles on a project.

About Our Flagpoles

Morgan-Francis flagpoles are produced in America from maintenance-free, seamless 6063-T6 aluminum shafts. The exterior surface has an 80 - 120 grit polished finish. Multiple piece shafts have snug-fitting joints that require no field welding or mechanical fasteners. Available wall thicknesses range from .125" to .375". Additional finishes, including anodizing and painting are also available options.

About Our Services

Morgan-Francis will provide, assist with and review your 10350 specifications. We will help with design layout, engineering information and provide assistance at all levels of your projects.

Contact us at the toll free numbers listed in the blue strip at the bottom of this brochure for live personalized service during work hours.

Messages may be left after hours and will receive prompt attention the following business day. You may also e-mail us at flagpoles@morgan-francis.com.

Contact by Mail

Morgan-Francis
9850 East 30th Street
Indianapolis, IN 46229

Warning

As standard, flagpoles are wrapped with protective paper in preparation for shipping. If this wrapping gets wet it will stain the flagpole shaft. Inspect your flagpoles, as well as all other products, upon delivery for possible damage during shipping. Store the poles unwrapped, up off of the ground, and out of the weather.

EZ Spec Guide

Step 1 - Select Basic Pole Design

External Halyard - Standard simple design (page 3)

Internal Halyard - Halyard is inside pole for security and clean appearance (pages 4-5).

Special - For nautical, outrigger or other mountings some details are provided on pages 12 and 13. Call for further information.

CHOICES

- (1a) External Halyard
(1b) Internal Halyard
 Special
(1c) _____ Surface Mount
(1d) _____ Wall Mount
(1e) _____ Nautical
(1f) _____ Tilt Tank

Step 2 - Select Pole Size

Determine height, butt diameter and wall thickness based on windspeed, flag size and appropriate height for the building.

(pages 6 thru 9)

- (2a) Exposed Ht _____
(2b) Overall Ht _____
(2c) Butt Dia _____
(2d) Top Dia _____
(2e) Wall Thickness _____
(2f) Model No _____

Step 3 - External Halyard Fittings & Options

Our external halyard flagpoles come complete with halyard, single truck, cleat, flag snaps (see page 3); aluminum ball, flash collar (page 14); and foundation tube (page 12). See appropriate page for available options and upgrades.

(To specify finial & flash collar, see Step 6)

External

- Single Truck
 Double Truck
 Pole Cap Assembly

 Cleat Cover (cylinder lock)
 Cleat Cover (padlock)

 5' Halyard Cover

 Nylon Snaps
 Chrome-plated Snaps
 Stainless Steel Snaps
 Quiet Snaps
 Bronze Snaps

 Snap Covers

Step 3 - Internal Halyard Fittings

Morgan-Francis offers a Commercial Internal halyard system (page 4) and the economical Guardian Internal halyard system (page 5). Each comes complete with halyard, internal truck, flag snaps, winch (page 4) or cam cleat (page 5); aluminum ball, flash collar (page 14); and foundation tube (page 12).

Commercial Internal

- Revolving Truck

Guardian Internal

- Revolving Truck
 Stationary Truck

Step 4 - Select Mounting Method

Standard mounting method is an embedded foundation. Optional approaches are detailed on page 12.

- Standard Embedded
 Shoebase Mounting
 Mandrel Mounting
 Other - _____

Step 5 - Select Finish

Satin brushed aluminum is standard. Other anodized finishes are available (page 14) as well as various paint finishes. Call to find out about paint options.

- Satin Brushed
 Clear Anodized
 Light Bronze Anodized
 Med Bronze Anodized
 Dark Bronze Anodized
 Black Anodized
 Painted

Step 6 - Special Options

Optional fittings and accessories for your flagpoles are available (pages 14 & 15). When choosing an eagle or cross, please call for available styles and sizes.

- Satin Brush Alum. Ball
 Stainless Steel Ball
 Gold Leaf Copper Ball
 Eagle or Cross

 Cast Aluminum Collar
 High Profile Flash Collar
 Optional Base _____

 Lights

Patriot Series, Ground Set Flagpoles

The Patriot Series System (EZ Spec Step 1a)

With its simple design, the Patriot Series external halyard system has long been the standard for flagpoles. Consisting of a single (one sheave) or double (two sheaves) truck, polypropylene halyards and cleats (to tie off the rope), it is both a trouble-free and economical flagpole system.

The Morgan-Francis Patriot Series external halyard system comes standard with a single revolving truck. A double truck assembly is optional. Standard exposed heights range from 20' - 80'. Other heights are available.

(EZ Spec Step 2)

Refer to the chart on pages 6-9 to determine height, shaft size and model number of the pole that best fits your needs.

External Halyard Fittings (EZ Spec Step 3)



Single "Flag Following" Truck - standard

- ◆ standard for 5" - 12" butt dia. poles
- ◆ smoothly follows wind direction changes
- ◆ helps prevent halyard from chafing
- ◆ supports finial such as ball, eagle or cross
- ◆ cast aluminum construction
- ◆ upper and lower set of stainless steel ball bearings
- ◆ 1-1/4" NPT spindle threads into top
- ◆ nylon 2" diameter sheave is standard, aluminum optional



Double "Flag Following" Truck - optional

- ◆ all features of the Single Truck, plus:
- ◆ two sheaves, 2" diameter nylon is standard, aluminum optional
- ◆ provides spare halyard
- ◆ further reduces maintenance costs



Pole Cap Assembly

- ◆ standard for 3" - 4" butt dia. poles
- ◆ stationary external truck
- ◆ supports a finial
- ◆ suitable for small diameter aluminum poles, vertical wall mount and outrigger poles



Cleats

- ◆ cast aluminum
- ◆ 6" - standard for 3", 3.5", & 4" butt dia. poles
- ◆ 9" - standard for 5"+ butt dia. poles
- ◆ one cleat per halyard
- ◆ mounts with 1/4-20 stainless steel screws



Cleat Cover with Cylinder Lock

- ◆ optional
- ◆ cylinder lock and key provided
- ◆ prevents untying of halyard from cleat
- ◆ discourages flag theft
- ◆ minimizes vandalism



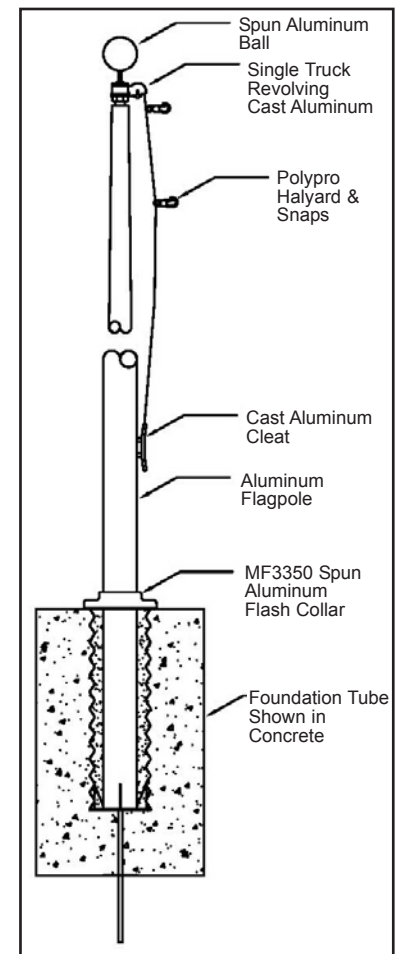
Cleat Cover with Padlock

- ◆ optional
- ◆ has a hasp for padlocks
- ◆ prevents untying of halyard from cleat
- ◆ discourages flag theft
- ◆ minimizes vandalism



Halyard Cover - optional

- ◆ 5' halyard channel
- ◆ must be used with a cleat cover
- ◆ provides extra halyard protection
- ◆ further minimizes vandalism



Halyards

- ◆ #8 (1/4") polypro - standard for 3" - 4" butt dia. poles
- ◆ #10 (5/16") polypro - standard for 5" - 8" butt dia. poles
- ◆ #12 (3/8") polypro - standard for 50'+ poles
- ◆ polypro is available in black, silver, or white
- ◆ #8 & #10 halyards are available with galvanized wire core for added protection from vandalism
- ◆ nylon or polyester halyards are available as options in "white" only

Flag Snaps

- ◆ nylon snap - standard for 3", 3.5", & 4" butt dia. poles
- ◆ 3.5" chrome-plated snap - standard for 5"+ butt dia. poles
- ◆ 3.5" stainless steel snap - standard for 50'+ poles
- ◆ quiet snap - optional
- ◆ bronze snap - optional

Snap Covers - optional

- ◆ provides noise reduction
- ◆ flexible nylon
- ◆ available in white or bronze color

Decorative Finial

- ◆ gold anodized ball provided
- ◆ other options available - see page 14

Flash Collar

- ◆ spun aluminum flash collar provided for standard embedded poles
- ◆ other options available - see page 14

Finishes, Bases, Lights & Halyards see pages 14 & 15.

Commercial Series, Ground Set Poles

The Commercial Series System (EZ Spec Step 1b)

The Morgan-Francis Commercial Series internal halyard system is recommended where flags will be flown for several days, where no continual supervision of flags is available, and where vandalism may be a potential problem. The Commercial Series internal halyard system is also recommended when large flags will be flown as the mechanism allows for easier raising of the flag.

Our Commercial Series flagpoles come with a "flag following" truck top, concealed stainless steel aircraft cable, duo stainless steel swivel system, stainless steel flag snaps, manually operated stainless steel winch, sling assembly, weight, re-enforced door opening, flush access door with cylinder lock, key and removable crank handle. Standard exposed heights range from 20' - 80'. Other heights are available.

(EZ Spec Step 2)

Refer to the chart on pages 6-9 to determine height, shaft size and model number of the pole that fits your needs.

Commercial Internal Halyard Fittings (EZ Spec Step 3)



Revolving Internal Truck - standard

- ◆ cast aluminum construction with stainless steel ball bearings
- ◆ "flag following", non-fouling
- ◆ supports finial such as ball, eagle or cross
- ◆ 1-1/4" NPT spindle threads into top
- ◆ 2" steel pulley



Winch Assembly - standard

- ◆ stainless steel
- ◆ operates with 1/8" stainless steel halyard
- ◆ locks in all positions
- ◆ uses removable crank handle



Crank Handle - standard

- ◆ durable steel construction
- ◆ rotating plastic hand grip
- ◆ removable for secure storage



Sling - standard

- ◆ restraining loop with plastic balls
- ◆ available in white or bronze
- ◆ easy attachment w/stainless steel quick link



Weight - standard

- ◆ weather resistant construction
- ◆ available in white or black
- ◆ rubberized coating
- ◆ stainless steel eyes



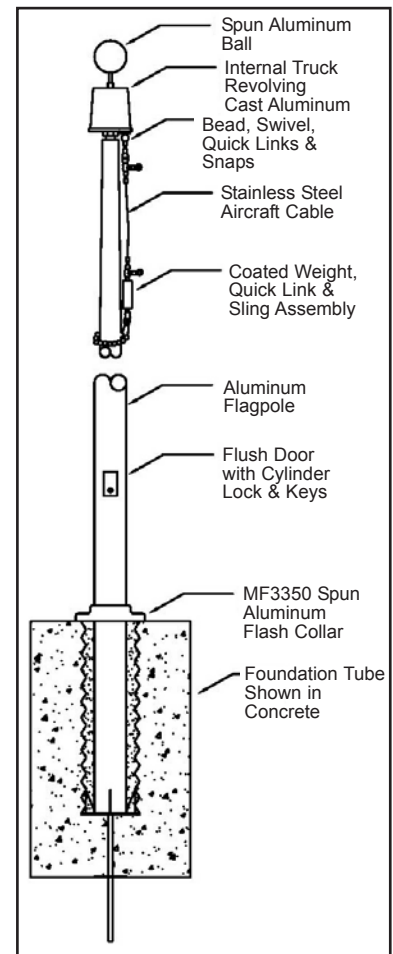
Access Door - standard

- ◆ flush door with lock and key
- ◆ made from same material as flagpole shaft



Aircraft Cable - standard

- ◆ 7x19 stranded stainless steel cable
- ◆ 1/8" diameter cable standard
- ◆ 5/32" diameter outer cable for 50'+ poles



Snaps - standard

- ◆ 3.5" stainless steel



Snap Covers - standard

- ◆ provides noise reduction
- ◆ flexible nylon
- ◆ available in white only for internals

Decorative Finial

- ◆ gold anodized ball provided
- ◆ other options available - see page 14

Flash Collar

- ◆ spun aluminum flash collar provided
- ◆ other options available - see page 14

Finishes, Bases, Lights & Halyards see pages 14 & 15.

Note

Standard flagpoles are rigged to fly only one flag. If multiple flags will be flown together, please inform us that additional flag halyards will be needed.

Guardian Series, Ground Set Poles

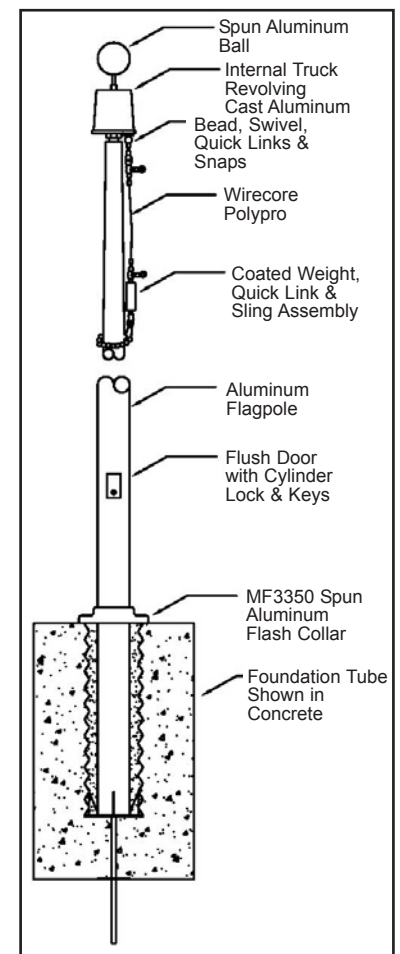
The Guardian Series System (EZ Spec Step 1b)

The Guardian Series internal halyard system features the same dependable construction as the Commercial Series internal line. The only difference is that we've replaced the concealed winch and cable with a durable concealed cam cleat and concealed polypro wire core halyard. The cam cleat works much like a venetian blind in that the unit clamps the rope when it is not being used.

Standard heights range from 20' - 40'. Other heights are available.

(EZ Spec Step 2)

Refer to the chart on pages 6-9 to determine height, shaft size and model number of the pole that fits your needs.



Guardian Internal Halyard Fittings (EZ Spec Step 3)



Guardian Revolving Truck - standard

- ◆ cast aluminum construction with stainless steel ball bearings
- ◆ "flag following", non-fouling
- ◆ supports finial such as ball, eagle or cross
- ◆ 1-1/4" NPT spindle threads into top
- ◆ 2" steel pulley



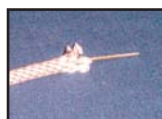
Stationary Internal Truck - optional

- ◆ 2 nylon pulleys
- ◆ supports finial such as ball, eagle or cross



Cam Cleat - standard

- ◆ works like a venetian blind
- ◆ mounted on aluminum plate for easy access
- ◆ secured with stainless steel plain head screws
- ◆ screws not visible on flagpole surface



Halyard

- ◆ #8 (1/4") polypro wirecore - standard for 4" - 5" butt diameter poles
- ◆ #10 (5/16") polypro wirecore - standard for 5" - 8" butt diameter poles
- ◆ available in black, silver, or white
- ◆ outer stainless steel cable is optional



Sling - standard

- ◆ restraining loop with plastic balls
- ◆ available in white or bronze
- ◆ easy attachment w/stainless steel quick link



Weight - standard

- ◆ weather resistant construction
- ◆ available in white or bronze
- ◆ rubberized coating
- ◆ stainless steel eyes



Access Door - standard

- ◆ flush door with lock and key
- ◆ made from same material as flagpole shaft

Flag Snaps

- ◆ nylon snap - standard for 4" butt dia. poles
- ◆ 3.5" chrome-plated snap - standard
- ◆ 3.5" stainless steel snap - optional
- ◆ quiet snap - optional
- ◆ bronze snap - optional

Snap Covers - optional

- ◆ provides noise reduction
- ◆ flexible nylon
- ◆ available in white or bronze color

Decorative Finial

- ◆ gold anodized ball provided
- ◆ other options available - see page 14

Flash Collar

- ◆ spun aluminum flash collar provided
- ◆ other options available - see page 14

Finishes, Bases, Lights & Halyards see pages 14 & 15.

Note

Standard flagpoles are rigged to fly only one flag. If multiple flags will be flown together, please inform us that additional flag halyards will be needed.

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.

1. (2a) Exp. Height	(2b)* Overall Height	(2c) Butt Dia.	(2d) Top Dia.	(2e) Wall Thickness	# of Shaft Sections	3. (2f) Model Number**			Flag Sizes	Unflagged Windspeeds	
						EXTERNAL*** (Patriot Series) cleat	INTERNAL (Commercial Series) winch	GUARDIAN (Guardian Series) cam cleat		MPH	85 MPH
20'	22'	3"	2"	.125"	1	ST203	*	*	3'x5' std	123	5'x8' nylon 4'x6' poly
	22'	3.5"	2"	.125"	1	ST2035	*	*		134	10'x19' nylon 6'x10' poly
	22'	4"	2"	.125"	1	ST204	*	GI22411	4'x6' opt	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	4'x6' std	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	5'x8' opt	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	5'X8' std	110	6'x10' nylon 5'x8' poly
					2	ST33512	CI33512	GI33512		109	6'x10' nylon 5'x8' poly
	33'	5"	3"	.156"	1	ST33521	CI33521	GI33521	6'x10' opt	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	30'x50' nylon 20'x30' poly	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	30'x50' nylon 30'x50' poly	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	30'x50' nylon 30'x50' poly	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	12'x18' 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 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
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 (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.

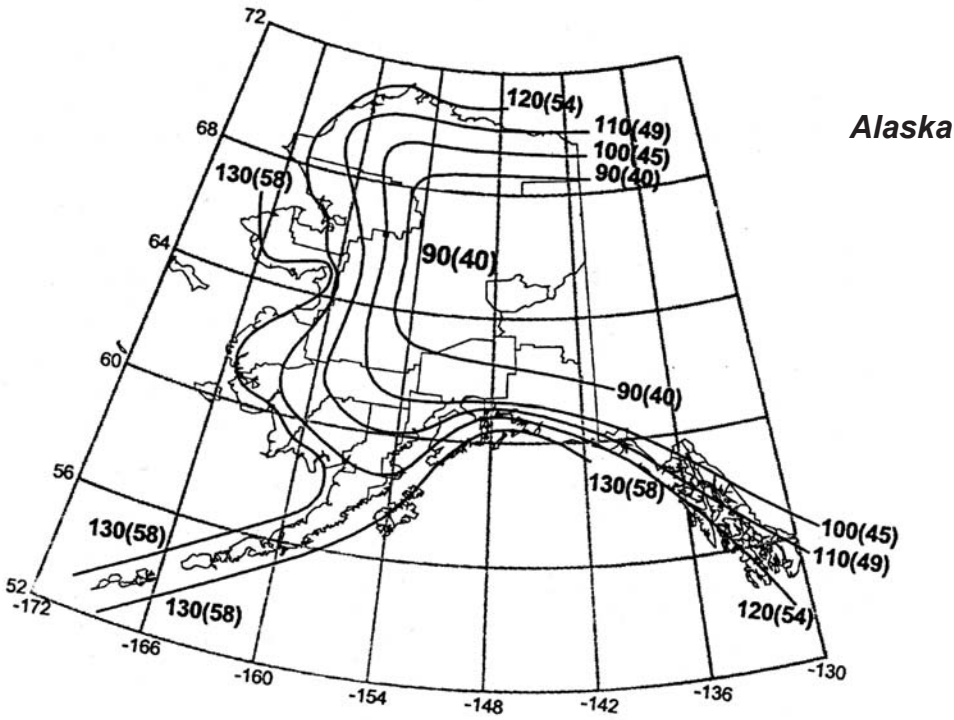
1. (2a) Exp. Height	(2b)* Overall Height	(2c) Butt Dia.	(2d) Top Dia.	(2e) Wall Thickness	# of Shaft Sections	3. (2f) Model Number**			Std Flag Sizes	Unflagged Windspeeds	
						EXTERNAL *** (Patriot Series) cleat	INTERNAL (Commercial Series) winch	GUARDIAN (Guardian Series) cam cleat		MPH	85 MPH
35'	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 8'x12' opt	139	15'x25' nylon 10'x15' poly
					2	ST44822	CI44822	GI44822		180	30'x50' nylon 20'x30' poly
	44'	8"	3.5"	.188"	2	ST44832	CI44832	GI44832		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
50'	55'	8"	3.5"	.188"	3	ST55833	CI55833	*	8'x12' std 10'x15' opt	127	15'x25' nylon 10'x19' poly
					3	ST551033	CI551033	*		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 12'x18' opt	136	20'x30' nylon 12'x18' poly
					3	ST661043	CI661043	*		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
80'	88'	12"	3.9"	.375"	3	ST881263	CI881263	*	12'x18' std 20'x30' opt	171	30'x50' nylon 30'x50' poly

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

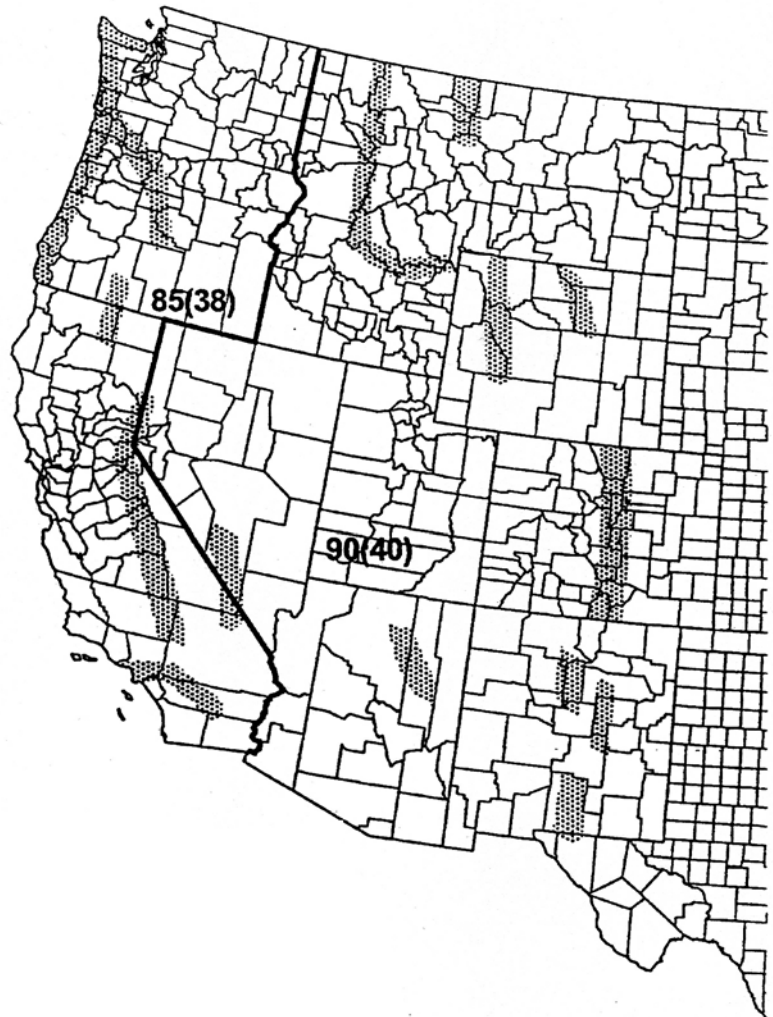
- * Overall shaft lengths include 10% additional length required for standard embedded foundation mounting.
- ** Last digit in model number indicates the number of flagpole sections. (Example: ST881263 has 3 sections.)
- *** To order Commercial External poles with a double truck system change the beginning 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 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'x38' nylon 12'x18' poly	12'x18' nylon 8'x12' poly	10'x15' nylon 6'x10' poly	6'x10' nylon 5'x8' poly	5'x8' nylon 3'x5' poly
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 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 20'x38' 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

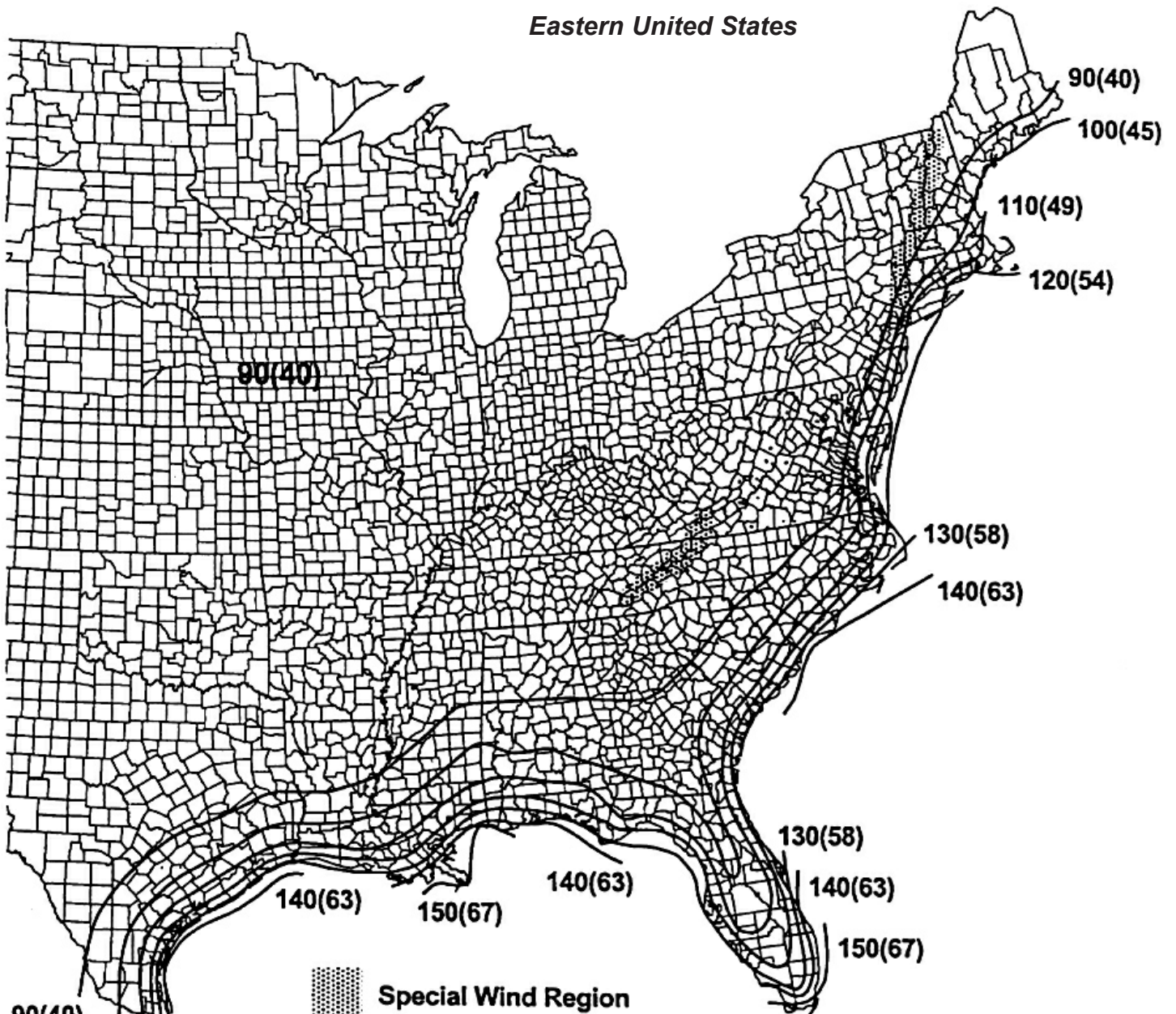
Windspeed Charts



Western United States



Eastern United States



90(40)
100(45) 130(58)
110(49) 120(54)

 **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)

Windspeed charts and information taken from ASCE 7-02, Minimum Design Loads for Buildings and Other Structures, by American Society of Civil Engineers, copyright 2003, published by ASCE. All information is reproduced by permission of the publisher, ASCE.

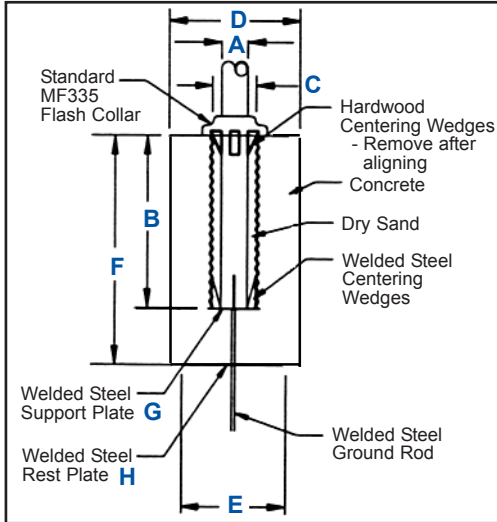
Mounting Methods (EZ Spec Step 4)

Embedded Foundations

Standard mounting method for groundset flagpoles. Embed pole at least 10% of exposed height. Concrete depth 6" beyond base plate on 40' and shorter poles; 12" on 45' and taller poles.

Concrete Diameter

Top of concrete should be 5 times the diameter of the pole, minimum. The bottom of the diameter should be 4 times the diameter of the pole, minimum.



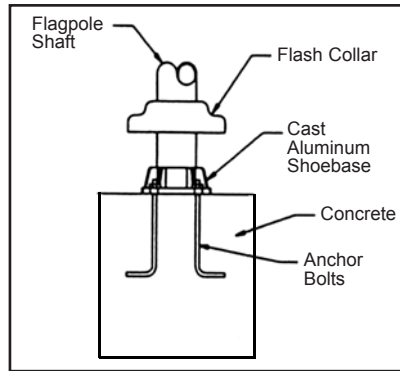
O/A Hght.	Exp. Hght.	Butt Dia.	Tube Lght.	Tube I.D.	Hole Dia.	Min. Bottom Dia.	Excav. Depth	Support Plate	Rest Plate
		A	B	C	D	E	F	G	H
22'	20'	4"	2'	6"	20"	16"	2'	8" x 8"	N/A
23'	20'	5"	3'	8"	25"	20"	4'	10" x 10"	6" x 6"
27'	25'	4"	2.5'	6"	20"	16"	2.5'	8" x 8"	N/A
28'	25'	5"	3'	8"	25"	20"	4'	10" x 10"	6" x 6"
28'	25'	5.5"	3'	8"	27.5"	22"	4'	10" x 10"	6" x 6"
28'	25'	6"	3'	10"	30"	24"	4'	12" x 12"	6" x 6"
33'	30'	5"	3'	8"	25"	20"	4'	10" x 10"	6" x 6"
33'	30'	6"	3'	10"	30"	24"	4'	12" x 12"	6" x 6"
38.5'	35'	6"	3.5'	10"	30"	24"	4.5'	12" x 12"	6" x 6"
38.5'	35'	7"	3.5'	10"	35"	28"	4.5'	12" x 12"	6" x 6"
44'	40'	7"	4'	10"	35"	28"	5'	12" x 12"	6" x 6"
44'	40'	8"	4'	12"	40"	32"	5'	14" x 14"	6" x 6"
49.5'	45'	8"	4.5'	12"	40"	32"	5.5'	14" x 14"	6" x 6"
55'	50'	8"	5'	12"	40"	32"	6'	14" x 14"	6" x 6"
55'	50'	10"	5'	15"	50"	40"	6'	18" x 18"	6" x 6"
66'	60'	10"	6'	15"	50"	40"	7'	18" x 18"	6" x 6"
66'	60'	12"	6'	15"	60"	48"	7'	18" x 18"	6" x 6"
77'	70'	10"	7'	15"	50"	40"	8'	18" x 18"	6" x 6"
77'	70'	12"	7'	15"	60"	48"	8'	18" x 18"	6" x 6"
88'	80'	12"	8'	15"	60"	48"	9'	18" x 18"	6" x 6"

Surface Mounted Foundations (EZ Spec Step 1c)

Shoebase Mounting

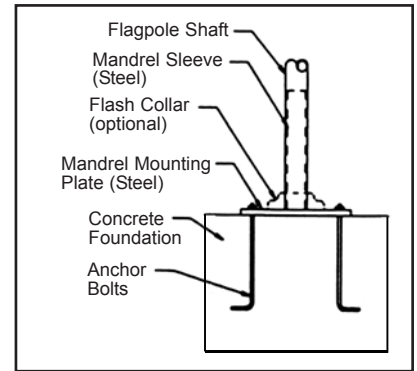
Cast aluminum shoebase is welded to the flagpole. Entire unit is placed over anchor bolts that have been cast in concrete. Pole is secured using nuts and washers above and below shoebase.

A hinged tilting shoebase is available for 5" and 6" butt diameter poles.



Mandrel Mounting

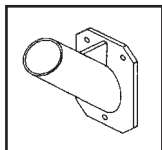
When special mountings are required, the mandrel type mounting can be utilized. Each is custom designed according to application and size. Applications include roofs and plazas, as well as others. Foundation may be a concrete slab.



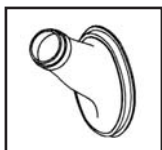
Wall Mounted Foundations (EZ Spec Step 1d)

A variety of brackets is available.

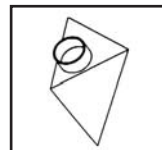
Outrigger Wall Mount Brackets



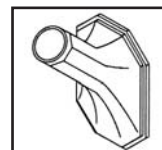
OR-145
30° to 60°
butt dia. 5" max.
fabricated



OR-332
45°
butt dia. 4.5" max.
cast aluminum



OR-337
30°
butt dia. 4" max.
fabricated

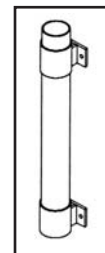


OR-430
45°
butt dia. 5" max.
cast aluminum

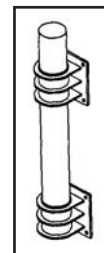
Vertical Wall Mount Brackets

Distance between brackets is at minimum 10% of pole length.

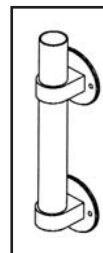
V-100



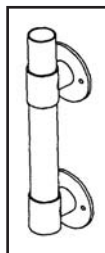
V-319



V-320



V-330



Note

Morgan-Francis can fabricate custom brackets. Call for information.

Nautical / Counter Balanced Tilting Flagpoles

Nautical Flagpoles (EZ Spec Step 1e)

Nautical aluminum flagpoles are ideal for displaying special pennants. They are also highly recommended for Yacht clubs, marinas, Naval and Marine bases or seashore and lakeside homes. We recommend protecting flagpoles located by water with a special finish (such as white paint).

Nautical, Single Mast Series

Included as standard...

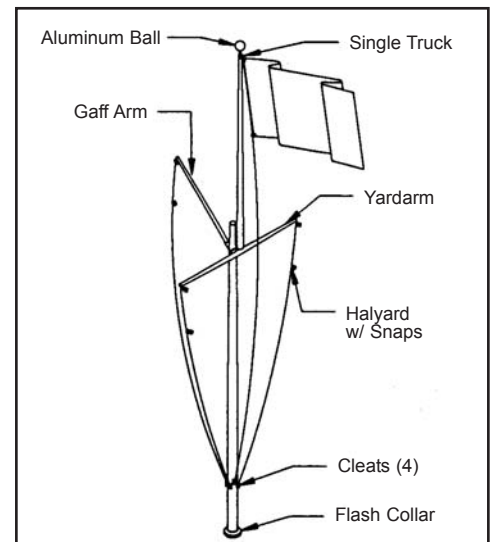
- ◆ single revolving cast aluminum truck
- ◆ gold anodized aluminum ball
- ◆ 9" cast aluminum cleat
- ◆ #10 (5/16") polypro
- ◆ #12 (3/8") polypro for 50'+ poles
- ◆ spun aluminum flash collar
- ◆ standard foundation tube
- ◆ chrome-plated snaps with covers
- ◆ standard yardarm and fittings

Nautical, Double Mast Series

Included as standard...

All of the items listed for single mast nautical plus...

- ◆ standard gaff arm and fittings



Nautical Pole Dimensions

Note for table below: Ship Weight-1 is for single mast nautical pole with yardarm; Ship Weight-2 is for the gaff arm only.

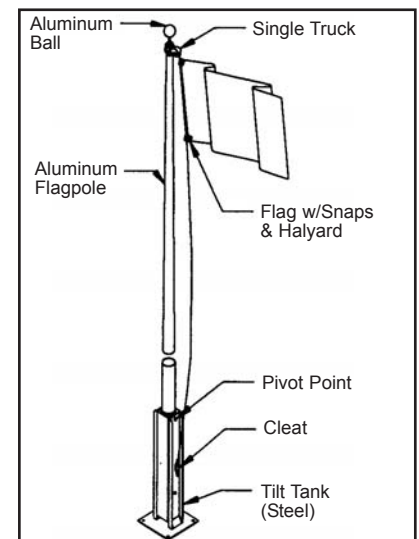
Flagpole Model #	Exp. Hght	Butt Dia.	Top Dia.	Wall Thick	Yardarm Dimensions			Ship Wght-1	Gaff Dimensions			Ship Wght-2
					Length	Center	Ends		Length	Butt	Top	
N23531	20'	5"	3"	.188"	6.5'	3"	2"	126#	5.5'	3"	2"	18#
N285531	25'	5.5"	3.5"	.188"	6.5'	3"	2"	160	5.5'	3"	2"	20
N28621	25'	6"	3.5"	.156"	6.5'	3"	2"	132	5.5'	3"	2"	20
N28631	25'	6"	3.5"	.188"	6.5'	3"	2"	170	5.5'	3"	2"	20
N33632	30'	6"	3.5"	.188"	8.5'	3.5"	2"	195	6.5'	3"	2"	23
N33642	30'	6"	3.5"	.250"	8.5'	3.5"	2"	245	6.5'	3"	2"	23
N385732	35'	7"	3.5"	.188"	9.5'	3.5"	2"	270	7.5'	3"	2"	27
N385742	35'	7"	3.5"	.250"	9.5'	3.5"	2"	334	7.5'	3"	2"	27
N44832	40'	8"	3.5"	.188"	11'	3.5"	2"	337	9'	3"	2"	32
N44842	40'	8"	3.5"	.250"	11'	3.5"	2"	414	9'	3"	2"	32
N495842	45'	8"	3.5"	.250"	12'	4"	2.5"	446	9'	3.5"	2"	32
N551043	50'	10"	4"	.250"	13.5'	4"	2.5"	598	10'	3.5"	2"	36
N661243	60'	12"	4"	.250"	15'	5"	3"	705	12'	3.5"	2"	43
N771243	70'	12"	4"	.250"	16.5'	5"	3"	805	14'	3.5"	2"	50
N881263	80'	12"	4"	.375"	18'	5"	3"	1,070	16'	3.5"	2"	57

Counter Balanced Tilt Tank Flagpole (EZ Spec Step 1f)

Counter balanced tilting, anchor bolt mounted flagpoles are easy to maintain since the flagpole can be raised and lowered by removing the locking bolts. The tilting flagpole consists of an aluminum cone tapered pole, aluminum ball, truck top, polypropylene halyard, swivel snaps, aluminum cleat, powder coat painted steel counter balance unit, locking bolts, and anchor bolts.

For the smaller flagpoles, a non-counter balanced tilting shoebase is available. See "Shoebase Mounting" on page 12.

Total Exp. Hght.	Diameter			Sq. Base Plate	Holes "On" Center		Channel Width	Anchor Bolts	Weight	
	Butt	Top	Ball		"On"	Center			Pole	Tilt Tank
20'	5"	3"	5"	16"x1/2"	12"	6"	3/4"x15"	70#	450#	
25'	5"	3"	5"	18"x1/2"	14"	6"	3/4"x15"	100	600	
25'	6"	3.5"	6"	18"x1/2"	14"	7"	3/4"x15"	115	700	
30'	5"	3"	5"	20"x1/2"	16"	6"	3/4"x15"	120	725	
30'	6"	3.5"	6"	20"x1/2"	16"	7"	3/4"x25"	125	750	
35'	6"	3.5"	6"	22"x1/2"	18"	7"	3/4"x25"	150	800	
35'	7"	3.5"	6"	22"x1/2"	18"	8"	3/4"x25"	170	850	
40'	7"	3.5"	6"	24"x1/2"	20"	8"	1"x36"	200	975	
40'	8"	3.5"	8"	24"x1/2"	20"	9"	1"x36"	225	1050	



Finishes, Finials, Flash Collars and Bases

Flagpole Finishes (EZ Spec Step 5)

Morgan-Francis offers a finish to complement any building design, including structures with architectural significance. Various paint finishes are also available. Call us for special requirements.



Satin Brushed
Standard finish.



Light Bronze Anodized



Dark Bronze Anodized



Clear Anodized



Medium Bronze Anodized



Black Anodized

Note Please contact us for actual samples of anodized colors for a more accurate color representation.

Finials (EZ Spec Step 6)

The gold anodized aluminum ball is our standard finial. Other flagpole finials are also available as shown below. Contact us for spec sheets or information about the variety of eagles, crosses and other specialty items that can be purchased.



Spun Aluminum Ball
 ♦ standard finial
 ♦ provided in gold anodized
 ♦ 14 gauge aluminum
 ♦ 1/2 - 13 threaded rod
 ♦ locking nut



Stainless Steel
Available in #4 finish or mirror finish.



Eagles
Different sizes available.

Note

Other finishes available: gold painted, satin brushed, clear anodized, bronze anodized, bronze painted, black painted



Copper Ball or Gold Leaf Copper



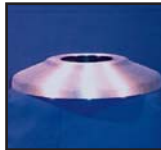
Crosses
Many varieties available.

Flash Collars (EZ Spec Step 6)

Flash collars add a decorative flair in classic or contemporary design. Our standard collar is the spun aluminum MF3350 and is available in finishes to match the pole. The other two collars shown are optional models.



MF3350 16 Gauge Spun Aluminum
Butt Dia. Collar
 3" - 4" 12" dia.
 5" - 7" 14" dia.
 8" 16" dia.
 10" - 12" 20" dia.

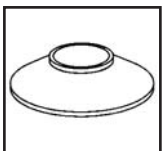


MF3353 Standard Cast Aluminum
Butt Dia. Collar
 5" - 7" 14" dia.
 8" - 12" 18" dia.

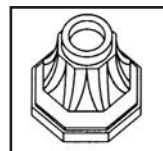


MF3351 Aluminum High Profile
Butt Dia. Collar
 3" - 8" 15.5" dia.
 10" - 12" 26" dia.

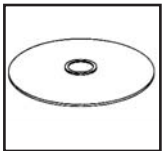
Optional Cast or Fabricated Aluminum Bases (EZ Spec Step 6)



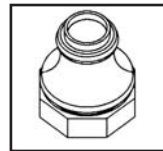
MF3354
Butt Dia. Base Dia. Height
 MF3354 5" - 8" 18" 6 1/2"



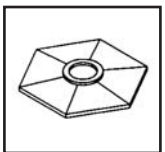
MF3340
Butt Dia. Base Dia. Height
 MF3340 7" - 10" 30" 15"



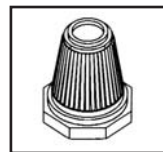
MF3361, MF3362
Butt Dia. Base Dia. Height
 MF3361 5" - 8 5/8" 24" 3 1/2"
 MF3362 5" - 8 5/8" 30" 3 1/2"



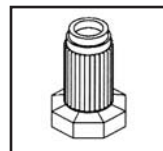
MF3333
Butt Dia. Base Dia. Height
 MF3333-1 5" - 6" 16" rd, oct. 11"
 MF3333-2 7" - 8" 20" rd, oct. 15 1/2"



MF3380
Butt Dia. Base Dia. Height
 MF3380-1 8" 19" 4"
 MF3380-2 10" - 12" 23" 4"



MF3358
Butt Dia. Base Dia. Height
 MF3358 5" - 10" 22" 22"



MF3375
Butt Dia. Base Dia. Height
 MF3375 5" - 7" 15" 24"

Note

Other designs or custom designs are available. Please contact us.

Flagpole Lights / Halyards / Flags

Lighting (EZ Spec Step 6)

Morgan-Francis cylinder lights are the ideal way to display a flag 24-hours a day, as well as eliminating the need to raise and lower the flag daily. The rugged aluminum cylinder is 18" long and 6" in diameter to mount on all butt diameters. Wiring is inside the pole. Conduit protects wiring on the Commercial Internal model. These lights accept one or two 135-150 watt incandescent flood lamps for up and/or down illumination.



A Word About Halyard Materials

Polypropylene

Widely used, economical and the standard used by many flagpole manufacturers; polypropylene rope is available from Morgan-Francis in **silver, black or white**.

Nylon

Stronger, greater elasticity and good UV resistance; nylon rope is available from Morgan-Francis in **white**.

Polyester

Excellent UV resistance, abrasion resistance and strong wet or dry, polyester rope is available from Morgan-Francis in **white**.

A Word About Our Flags

Morgan-Francis Flagpoles is proud to partner with Valley Forge Flags to provide quality flags designed for outdoor use. All flags are crafted from special made fabrics which are woven and dyed for flag use and exceed U.S. Government Specifications for material and workmanship. Morgan-Francis will supply Valley Forge flags whenever possible. Below is a list of our outdoor U.S. flags. We also provide State, Territory, Military and other specialty flags. Please call to receive a copy of our flag catalog.



Determining Flag Size

The length of the flag should be at least 1/4 the height of the pole. For example, a 40' pole requires a 6'x10' flag or larger. This guideline applies to poles that are 20' and larger.

Generally speaking, most residential flags are 3'x5' or 4'x6'. Most small industrial and commercial buildings use either a 5'x8' or 6'x10' flag. Major industrial, municipal and government buildings require 8'x12' and larger. However, the size of the pole is the determining factor.

The following table shows the appropriate size of flag for public display.

Exposed Flagpole Height	Flag Size
20'	3'x5' or 4'x6'
25'	4'x6' or 5'x8'
30'-35'	5'x8' or 6'x10'
40'-45'	6'x10' or 8'x12'
50'	8'x12' or 10'x15'
60'-65'	10'x15' or 10'x19'
70'-80'	10'x19' or 12'x18'
90'-100'	20'x38' or 30'x50'



Outdoor U.S. Flags - Nylon / Polyester / Cotton

Size	PERMA-NYL® (nylon) Item #	KORALEX II™ (polyester) Item #	BEST™ (cotton) Item #	Notes Const.
2'x3'	FLAG0203USN	----	FLAG0203USC	(1)
3'x5'	FLAG0305USN	FLAG0305USP	FLAG0305USC	(1)
4'x6'	FLAG0406USN	FLAG0406USP	FLAG0406USC	(1)
5'x8'	FLAG0508USN	FLAG0508USP	FLAG0508USC	(1)
6'x10'	FLAG0610USN	FLAG0610USP	----	(1)
8'x12'	FLAG0812USN	FLAG0812USP	----	(2)
10'x15'	FLAG1015USN	FLAG1015USP	----	(3) (6)
10'x19'	FLAG1019USN	FLAG1019USP	----	(3) (6)
12'x18'	FLAG1218USN	FLAG1218USP	----	(3) (6)
15'x25'	FLAG1525USN	FLAG1525USP	----	(4) (6)
20'x30'	FLAG2030USN	FLAG2030USP	----	(4) (6)
20'x38'	FLAG2038USN	FLAG2038USP	----	(4) (6)
30'x50'	FLAG3050USN	FLAG3050USP	----	(5) (6)
30'x60'	FLAG3060USN	FLAG3060USP	----	(5) (6)

Construction Notes: (1) 2 grommets (2) No grommets, roped heading (3) 1 grommet, roped heading (4) 3 grommets and roped heading (5) 7 grommets and roped heading (6) Box tacked

National Installations:

Alaska:	National Oil Well, Phillips Alaska, Kenai
California:	Crystal Cove State Park, Laguna Beach
Delaware:	McDonald's, Bridgeville
Florida:	Bonita Spring Fire Station #2, Bonita Springs
Georgia:	Whitfield Career Academy, Dalton
Hawaii:	Maui Campus, Makawao
Idaho:	Minico High School, Rupert
Illinois:	St. Ann Police Department, St. Ann
Indiana:	NCAA Hall of Fame, Indianapolis
Iowa:	The CU Link Banking Facility, Dubuque
Kentucky:	Cardinal Park, Louisville
Louisiana:	Social Security Admin. Bldg., Bastrop
Maryland:	F.B.I. Field Office, Baltimore Chesapeake Bay Beach Club, Stevensville
Massachusetts:	Westboro State Hospital, Westboro
Michigan:	Air Traffic Control Tower, Fort Gratiot
New Jersey:	City of Atlantic City, Atlantic City
New York:	J.F.K. Airport, Jamaica Terry Hill Golf Course Club, Batavia
North Carolina:	Northern Tool & Equipment, Asheville
Ohio:	Kettering Municipal Court, Kettering
Pennsylvania:	Home Depot #4162, Matmoras Philadelphia Phillies, Philadelphia
Rhode Island:	Hampton Inn & Suites, Middletown
Texas:	BMW Center, San Antonio Arlington Auto Mall, Ft. Worth Dimmit Co. Jail, Carrizo Springs
Virginia:	Virginia Sports Hall of Fame, Portsmouth
Washington:	Girl Scouts Headquarters, Dupont
Washington, D.C.:	Senior Wellness Center
West Virginia:	American Beer Company, Meadow Bluff
Wisconsin:	Marinette Marine Corp., Marinette
Puerto Rico:	San Sebastian Main Post Office, San Sebastian

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