

# PalmSHIELD: 150 MPH Post Design Charts

## Design Criteria

V = 150 MPH  
Exposure C  
Risk Category = III  
Kzt = 1  
MWFRS Open Sign Structure Case A = 51.3 psf LRFD

G = .85  
Kz = .85  
Kd = .85

## Standard System Post Size Table

Panel Height	Post and Baseplate size (Based on 60" wide panels)
6'	HSS 4"x4"x1/4" Post w/ 10"x10"x3/4" baseplate
7'	HSS 4"x4"x1/4" Post w/ 10"x10"x3/4" baseplate
8'	HSS 4"x4"x1/4" Post w/ 10"x10"x3/4" baseplate
9'	HSS 5"x5"x3/8" Post w/ 10"x10"x1" baseplate
10'	HSS 5"x5"x3/8" Post w/ 10"x10"x1" baseplate
11'	HSS 5"x5"x3/8" Post w/ 10"x10"x1" baseplate
12'	HSS 5"x5"x3/8" Post w/ 10"x10"x1" baseplate
13'	HSS 5"x5"x3/8" Post w/ 10"x10"x1" baseplate
14'	HSS 5"x5"x3/8" Post w/ 10"x10"x1" baseplate

## Standard Gate Post Size Table

Gate Height	Post and Baseplate size (Based on 60" wide panels)
6'	HSS 5"x5"x3/8" Post w/ 10"x10"x1" baseplate
8'	HSS 6"x6"x1/4" Post w/ 12"x12"x3/4" baseplate
10'	HSS 6"x6"x1/4" Post w/ 12"x12"x3/4" baseplate
12'	HSS 8"x8"x1/4" Post w/ 13"x14"x1-1/4" baseplate
14'	HSS 8"x8"x1/4" Post w/ 13"x14"x1-1/4" baseplate

## Base Plate Size & Connection

HSS 4"x4"x1/4" = 10"x10"x3/4" w/ 1/4" fillet weld around column

HSS 5"x5"x3/8" = 10"x10"x1" w/ 3/8" fillet weld around column, max anchor dia. = 3/4", min. 1" edge distance to center of anchor hole

HSS 6"x6"x1/4" = 12"x12"x3/4" w/ 1/4" fillet weld around column

HSS 8"x8"x1/4" = 14"x14"x1-1/4" w/ 1/4" fillet weld around column

## Material

HSS Tube = A500 Grade B

Base Plate = A36 Steel

## American Fence: Post Design Charts

### Design Criteria

V = 150 mph                      G = .85  
 Exposure C                        Kz = .85  
 Risk Category = III                Kd = .85  
 Kzt = 1  
 MWFRS Open Sign Structure Case A = 51.3 psf LRFD

### Standard Post Size Table

Panel Span \ Panel Height	61"	67"
6'-5"	HSS 4x4x1/4	-
7'-10"	-	HSS 4x4x1/4
13'-10"	HSS 5x5x3/8	-

### Standard Gate Post Size Table

		Gate Span			
		55"		63"	
Adj. Panel Span \ Panel Height	61"	67"	61"	67"	
7'-10"	-	-	-	HSS6x6x1/4	
13'-10"	HSS 8x8x1/4	-	-	-	

### Base Plate Size & Connection

HSS 4x4x1/4 = 10"x10"x3/4" w/ 1/4" fillet weld around column  
 HSS 5x5x3/8 = 10"x10"x1" w/ 3/8" fillet weld around column, max anchor dia. = 3/4", min.  
     1" edge distance to center of anchor hole  
 HSS 6x6x1/4 = 12"x12"x3/4" w/ 1/4" fillet weld around column  
 HSS 8x8x1/4 = 14"x14"x1-1/4" w/ 1/4" fillet weld around column



### Material

HSS Tube = A500 Grade B  
 Base Plate = A36 Steel