

The current *International Building Code & ASCE 7 Chapters 26 Wind Loads: General Requirements & Chapter 29 Wind Loads On Other Structures & Building Appurtenances*, was utilized to calculate wind pressure based on the following:

Design wind velocity 105 mph, ultimate, *Figure 26.5-1A* which covers the entire Central U.S. If we have installations along the East Coast, Gulf Coast, or West Coast additional calculations will be required.

An exposure factor of "C" and a classification of *Low Risk* was utilized to calculate wind pressures. The calculated wind pressure utilized to determine post sizes was 14.56 pounds per square foot.

STEEL LOUVERS:

## **TALIA-80 & TALIA-100**

MAX. POST SPACING:	5'-8" o.c.	
HEIGHT	POST MATERIAL (STEEL)	MIN. EMBEDMENT
up to 7'-0"	HSS - 3 x 2 x 1/8	0'-10"
7'-0" to 9'-0"	HSS - 3 x 2 x 3/16	1'-2" to 1'-6"
9'-0" to 11'-0"	HSS - 4 x 2 x 3/16	2'-0"

OPEN STEEL GRATINGS:

## **STEROPE, PLEIONE, BRITOSTEROPE, DIONE & DANAE**

MAX. POST SPACING:	6'-6" o.c.	
HEIGHT	POST MATERIAL (STEEL)	MIN. EMBEDMENT
up to 5'-0"	BAR 5/16" x 2-1/2"	0'-8"
5'-0" to 8'-0"	BAR 5/16" x 3-1/2"	0'-10"
8'-0" to 10'-0"	HSS - 2 x 2 x 3/16	1'-4"

ALUMINUM LOUVERS:

## **STL-80 & STL-100**

MAX. POST SPACING:	6'-0" o.c.	
HEIGHT	POST MATERIAL (ALUM)	MIN. EMBEDMENT
up to 5'-0"	HSS - 3 x 2 x 1/8	0'-8"
5'-0" to 6'-6"	HSS - 3 x 2 x 3/16	0'-10"
6'-6" to 8'-0"	HSS - 4 x 2 x 3/16	1'-0"
8'-0" to 9'-0"	HSS - 4 x 2 x 1/4	1'-4"

**\*FOR ALUMINUM FENCES HIGHER THAN 9'-0", STEEL POSTS SHOULD BE CONSIDERED**

- Embedments for these posts were calculated assuming properly reinforced structural concrete with a minimum compressive strength of 3000 PSI.
- Post sizes were calculated based on wind load only, if other loads need to be applied additional calculations will be required.