

# GP 12 Triangle Truss

60 degree Equilateral Triangle  
constructed of 6061-T6 aluminum in USA

## Tubes:

### Main Chords:

Chords are constructed of 2" outside diameter tubes with a wall thickness of 0.125" (1/8") on two lower chords and 0.157" on single upper chord.

### Bottom Horizontals:

Horizontals are constructed of 2" x 1/8" tube.

### Diagonals:

Diagonals are made from 1 inch outside diameter tubes with a wall thickness of 0.125" (1/8").

## Box:

### End Bracing Box:

End bracing is constructed of 2 inch x 1 inch box with a wall thickness of 0.125" (1/8"). Corners of box have a 3mm radius.

## End plates:

### GP 12 triangular end plates:

End plates are 10mm (0.394") thick.

## Fasteners:

Truss is fastened together using (3) 5/8" UNC x 2" Bolt sets (grade 8).

## Welding:

Thomas truss is welded by certified welders in accordance with American National Standard ANSI/AWS D1.2.

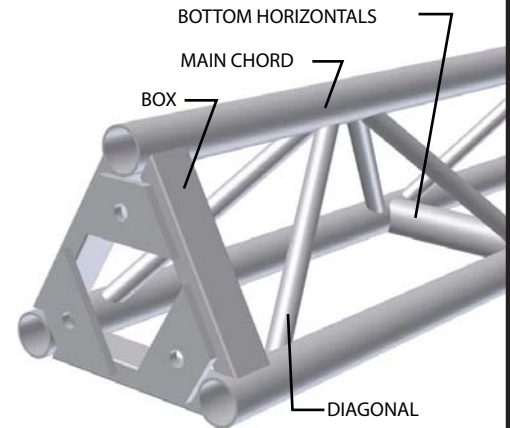
## Design and Manufacturing:

In accordance with the applicable sections of ANSI E1.2, "Design, Manufacture and Use of Aluminum Trusses and Towers"

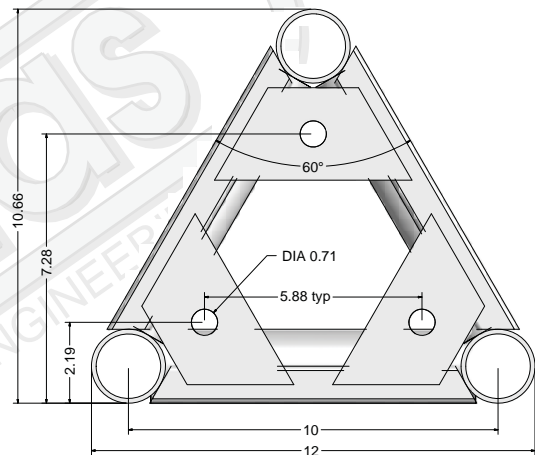
## Loading:

SPAN	SWT	UDL	CPL	Deflection
(ft)	(lb)	(lb)	(lb)	(inches)
10'	42	5058	2529	0.41
20'	84	2323*	1452*	1.50
30'	126	1032*	645*	2.25
40'	168	580*	363*	3.00

\*Indicates loads limited by deflection of  $\frac{\text{span}}{160}$



End View of GP 12 Triangular Truss



End Dimensions of GP 12 Triangular

\*Note: Dims are in inches