| Connection Type | Material Gauge | Fastener Size | Actual Load | Allowable Load | Number Required |
|---|---|---|---|---|---|
| Header Brace 1/Header | 0.036 | 1/4-14 T/3 | 1103 | 372 | 3 |
| Endwall Panel/Base | 0.036 | 1/4-14 T/3 | 183 | 439 | 2 |
| Endwall Panel/Arch | 0.036 | #12-14 T/2 | 183 | 150 | 2 |

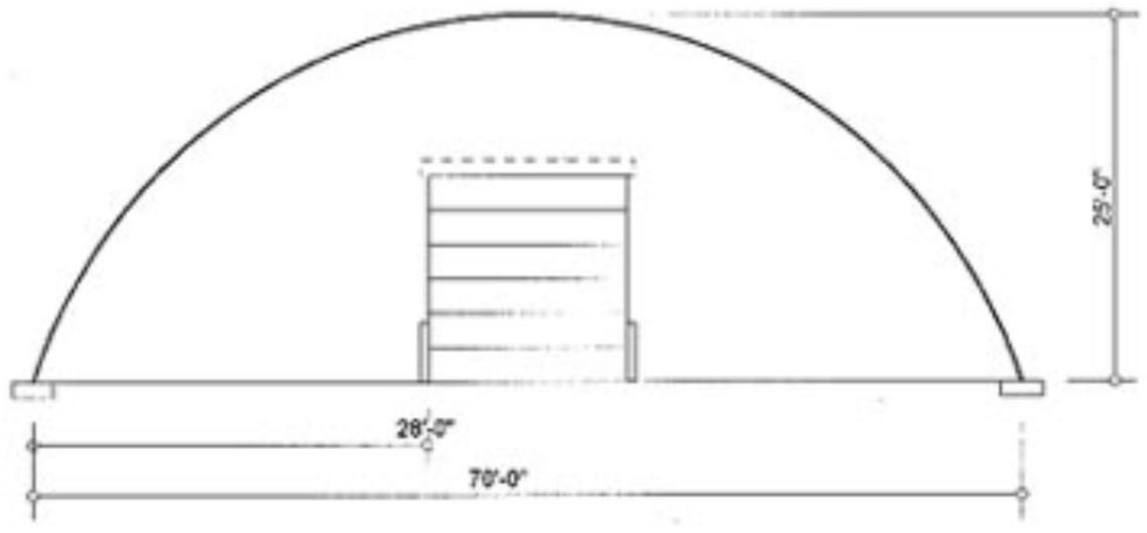
**GENERAL INFORMATION**

Arch Central Angle = 142.15 deg
Arch Length = 92.70 ft

Vehicular Door Type - Overhead Door
Vehicular Door Size - 14' (w) x 14' (h)

**DESIGN PARAMETERS**

Panel : Model 600
Material : 0.036 in. ASTM A653, Grade D
Arch Span : 70.000 ft
Arch Height: 25.000 ft
Arch Radius: 37.000 ft
Dead Load : 2.00 psf
Live Load : 20.00 psf
Snow Load : 20.00 psf (ground)
Snow Load : 16.00 psf (design) [Is =0.80, Ce = 1.00]
Wind Load : 11.45 psf (design) [Iw = 0.87]
Wind Speed : 80 mph Exposure C
Open Category: E
Topography (Kz):1
Wind Shielding (Ks):1
Seismic Coefficient: 0.05
Building Category: (1) Ags/Temp




| Member | Section | Actual | Allowable | Ratio |
|---|---|---|---|---|
| Door Header | Model 600 | W = 81 plf | W = 141 plf | 0.57 |
| Door Jamb | Model 600 x 4 5/8 | W = 103 plf | W = 145 plf | 0.71 |
| Brace 1 | Dietrich 600CSS20 x14.61 ft | P = 1103 lbs | P = 1540 lbs | 0.72 |
| Brace 2 | Dietrich 600CSS20 x14.61 ft | P = 1103 lbs | P = 1540 lbs | 0.72 |

**Global Steel**

**Example**

Colorado Springs, CO

DATE: 01-11-2000
TIME: 11:58
ENGR: KWW
FILE: EXAMPLE
NUMBER: 1

D2