|  |  |  |
| --- | --- | --- |
| **WinTess** | | |
| **Combinación de Carga :1.4 + 1.5 + SISY + 1.1 VIEN X + 1.1 VIEN Y** | | |
| Sobrecarga = 20 kg/m² + Carga Accidental: 40 kg/m2 | | |
| Viento X = 64.7 km/h | Viento Y = 16.4 km/h | Viento total = 66.74 km/h |
| Tipo de edificio = Abierto (3) > Sin c=0 | | |
| Pretensado de la membrana = 0.08/0.08 % | | |
| Peso de los cables = 29.9 kg | | |
| Peso de los tubos = 464.7 kg | | |
| Peso de la membrana = 34.3 kg | | |

Tabla 2

Tabla 3

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **BARRAS** |  |  |  |  |
|  |  | **Axial (T)** | **Tensión (kg/cm²)** | **Ratio** |
| 2 | Ø110·5\_A36 | -0.107 | 1789.2 | 1.27 |
| 6 | Ø90·4\_A36 | -0.209 | 1425 | 1.04 |
| 8 | Ø90·4\_A36 | -0.207 | 1413.6 | 1.03 |
| 10 | Ø90·4\_A36 | -0.151 | 790.3 | 0.59 |
| 11 | Ø90·4\_A36 | -0.465 | 828.7 | 0.65 |
| 12 | Ø90·4\_A36 | -0.215 | 1374.7 | 1.01 |
| 15 | Ø90·4\_A36 | -0.449 | 750.6 | 0.59 |
| 16 | Ø90·4\_A36 | -0.216 | 1437.7 | 1.05 |
| 22 | Ø90·4\_A36 | 0.074 | 964.5 | 0.68 |
| 23 | Ø90·4\_A36 | 0.194 | 716.7 | 0.5 |
| 25 | Ø90·4\_A36 | 0.101 | 889.5 | 0.62 |

Tabla 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TRACCIÓN MAXIMA EN LA MEMBRANA** | | | | | |
| **Barra** | **Nudos** | **T/metro** | | **kg/5cm** | **Ratio** |
| 56 | 120-135 | 1.07 | | 73.5 | 0.90 |
| TRACCIÓN EN LOS CABLES DE RELINGA | | | | | |
| **Cable** | **T** | **Ratio** | **Barra** | | |
| 1 | 1.860 | .11 | 2,3 (18mm)Galv | | |
| 2 | 1.857 | 0.12 | 1,4 (18mm)Galv | | |
| 3 | 1.593 | 0.25 | 5,6,7,8 (18mm)Galv | | |

Tabla 5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **BARRAS** |  |  |  |  |
|  | **Modelo Experimental: 8.5 metros** | **Proyecto Final: 15.5 metros** | **Ratio 1: Modelo** | **Ratio 2: Proyecto** |
| 2 | Ø110·5\_A36 | Ø152·5\_A36 | 1.27 | 1.05 |
| 6 | Ø90·4\_A36 | Ø75·4\_A36 | 1.04 | .95 |
| 8 | Ø90·4\_A36 | Ø75·4\_A36 | 1.03 | .97 |
| 10 | Ø90·4\_A36 | Ø75·4\_A36 | 0.59 | 0.39 |
| 11 | Ø90·4\_A36 | Ø75·4\_A36 | 0.65 | 0.58 |
| 12 | Ø90·4\_A36 | Ø75·4\_A36 | 1.01 | .93 |
| 15 | Ø90·4\_A36 | Ø75·4\_A36 | 0.59 | 0.45 |
| 16 | Ø90·4\_A36 | Ø75·4\_A36 | 1.05 | .99 |
| 22 | Ø90·4\_A36 | Ø75·4\_A36 | 0.68 | 0.52 |
| 23 | Ø90·4\_A36 | Ø75·4\_A36 | 0.5 | 0.47 |
| 25 | Ø90·4\_A36 | Ø75·4\_A36 | 0.62 | 0.39 |

Tabla 6

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TRACCIÓN MAXIMA EN LA MEMBRANA** | | | | |
| **Barra** | **Nudos** | **T/metro** | **kg/5cm** | **Ratio** |
| 56 | 120-135 | 1.07 | 73.5 | 0.90 |
| TRACCIÓN EN LOS CABLES DE RELINGA | | | | |
| **Cable** | **T** | **Ratio** | **Barra** | |
| 1 | 1.250 | .10 | 2,3 (18mm)Galv | |
| 2 | 1.357 | 0.095 | 1,4 (18mm)Galv | |
| 3 | 1.193 | 0.15 | 5,6,7,8 (18mm)Galv | |