

**Planchas Navales**  
**Normas ASTM A-131 Grado A, Cert. Lloyd's**

**Descripción y Usos:**

Producto plano que se adquiere por Laminación de planchones de Acero Estructural Naval que preliminarmente son calentados hasta una temperatura de 1250 °C.

**Composición Química**

| Norma Técnica             | Grado B   |               |            |            |           |
|---------------------------|-----------|---------------|------------|------------|-----------|
|                           | C %       | Mn %          | P %        | S %        | Si %      |
| <b>ASTM A-131 Grado A</b> | 0.21 máx. | 2.5 x % C min | 0.035 máx. | 0.035 máx. | 0.05 máx. |

**Propiedades Mecánicas**

| Norma Técnica             | Límite de Influencia (kg/mm <sup>2</sup> ) | Resistencia la Tracción (Kg/mm <sup>2</sup> ) | Alargamiento (%) | Norma Equivalente            |
|---------------------------|--|---|------------------|------------------------------|
| <b>ASTM A-131 Grado A</b> | 24 min                                     | 41/53 min                                     | 21 min           | LLOYD'S Register Of Shipping |

**Dimensiones y Peso Unitario**

| Sistema Métrico (mm) |       |       | Pesos Teóricos Kg/Pza | Sistema Inglés (pulg/pie) |       |       |
|----------------------|-------|-------|-----------------------|---------------------------|-------|-------|
| Espesor              | Ancho | Largo |                       | Espesor                   | Ancho | Largo |
| 3.0                  | 1,220 | 6,000 | 172.39                | 1/8"                      | 4     | 20    |
| 4.5                  | 1,500 | 6,000 | 317.93                | 3/16"                     | 5     | 20    |
| 6.4                  | 1,800 | 6,000 | 542.59                | 1/4"                      | 6     | 20    |
|                      | 2,400 | 6,000 | 723.46                |                           | 8     |       |
| 8.0                  | 1,800 | 6,000 | 678.24                | 5/16"                     | 6     | 20    |
|                      | 2,400 | 6,000 | 904.32                |                           | 8     |       |
| 9.5                  | 1,800 | 6,000 | 1,026.00              | 3/8"                      | 6     | 20    |
|                      | 2,400 | 6,000 | 1,368.00              |                           | 8     |       |
| 12.5                 | 1,800 | 6,000 | 1,059.75              | 1/2"                      | 6     | 20    |
|                      | 2,400 | 6,000 | 1,073.88              |                           | 8     |       |
| 16.0                 | 1,800 | 6,000 | 1,356.48              | 5/8"                      | 6     | 20    |
|                      | 2,400 | 6,000 | 1,808.64              |                           | 8     |       |
| 19.0                 | 1,800 | 6,000 | 1,610.82              | 3/4"                      | 6     | 20    |
|                      | 2,400 | 6,000 | 2,147.76              |                           | 8     |       |
| 25.0                 | 1,800 | 6,000 | 2,119.50              | 1"                        | 6     | 20    |
|                      | 2,400 | 6,000 | 2,826.00              |                           | 8     |       |

|      |       |       |          |        |   |    |
|------|-------|-------|----------|--------|---|----|
| 32.0 | 1,800 | 6,000 | 2,712.96 | 1 1/4" | 6 | 20 |
|      | 2,400 | 6,000 | 3,617.28 |        | 8 |    |
| 38.0 | 1,800 | 6,000 | 3,221.64 | 1 1/2" | 6 | 20 |
|      | 2,400 | 6,000 | 4,295.52 |        | 8 |    |
| 50.0 | 1,800 | 6,000 | 4,239.00 | 2"     | 6 | 20 |
|      | 2,400 | 6,000 | 5,652.00 |        | 8 |    |