Corten B Weathering Steel

1.Weather Resistant Steel

Corten Steel | Corten A | Corten B | S355J0WP | S355J0W | S355J2W

2.More suitable for heavy load bearing structures, Corten B is available from Chian United Iron Steel Co.,LTD . Corten B – a weather resistant steel which is better suited for heavy and load bearing structures.

3.The material forms its own protective layer when exposed to atmospheric elements. Essentially, the top layer corrodes which then protects the steel beneath it. The natural finish does not normally require any form of maintenance such as painting, which makes the material a highly cost effective alternative to other structural steels.

4.Painting and maintenance will be required if the structure is is continually wet as a protective layer will not form. An good example is where the base of the structure meets with the ground or is partially submerged.

5.Please refer to the technical specifications below...

Grades & Equivalents

|  |  |
| --- | --- |
| Corten | EN 10025-5:2004 |
| Corten B | S355J2W |

6.Chemical Composition

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | C | Si | Mn | P | S | Al | V | Cu | Cr | Ni |
| Corten B | 0.19 | 0.30/0.65 | 0.80/1.25 | 0.035 | 0.030 | 0.020/0.06 | 0.02/0.10 | 0.25/0.40 | 0.40/0.65 | 0.40 |

Maximum values unless otherwise stated

7.Mechanical Properties

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Grade | Thickness (mm)  Strip Products | Plate Products | Yield Strength Rel N/mm² Minimum | Tensile Strength Rm N/mm² Minimum | Elongation A50 % Minimum |
| Corten B | 2 – 13 | 6 – 40 | 345 | 485 | 19 |

Grade Thickness (mm)

(Please note: the technical information above is for guidance only – for exact specifications please check with our Sales Team)

8.For more information about Corten B weather resistant steel or to receive a prices and further specifications, please contact us.