Corten A Weathering Steel

1.Weather Resistant Steel

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

2.Corten A is used in structural and architectural applications. Corten A – a weather resistant steel created by alloying copper, chromium and nickel. In addition to this, Corten A has added phosphorous which makes the material best suited for gas flue applications and for aesthetic facials The material is not recommended in heavy load bearing applications – in this case Corten B or S355J2W should be considered.

3.The top layer of the material reacts with atmospheric elements to form a rust coloured protective layer which not only makes the steel virtually maintenance free but also provides a pleasing and consistent finish.

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

Grades & Equivalents

|  |  |
| --- | --- |
| Corten | EN 10025-5:2004 |
| Corten A | S355 J0WP |

5.Chemical Composition

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | C | Si | Mn | P | S | Al | V | Cu | Cr | Ni |
| Corten A | 0.12 | 0.25/0.75 | 0.20/0.50 | 0.07/0.15 | 0.030 | 0.015/0.06 | – | 0.25/0.55 | 0.50/1.25 | 0.65 |

Maximum values unless otherwise stated

6.Mechanical Properties

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Grade | Thickness (mm)Strip Products | Plate Products | Yield StrengthRel N/mm²Minimum | Tensile StrengthRm N/mm²Minimum | ElongationA50 %Minimum |
| Corten A | 2 – 12 | 6 – 12 | 345 | 485 | 20 |

Grade Thickness (mm)

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

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