

Steel Resistant to Atmospherical Corrosion BS 4360 WR 50 C

WR 50 C steel plate, **BS 4360** WR 50 C steel plate, under **BS 4360** standard, we can regard **BS 4360** WR 50 C steel plate as Steel Resistant to Atmospherical Corrosion WR 50 C steel plate is one mainly of Steel Resistant to Atmospherical Corrosion, WR 50 C steel plate is a weather-resistant structural steel with mechanical properties similar to WR 50 C. By adding Cr, Cu and Ni, it formed oxide layers stick firmly to the work piece surface. This oxide layer prevents further corrosion of the steel.

| WR 50 C UNI | Comparison of steel grades | |
|----------------|----------------------------|------------|
| | UNI | S355J2G1W |
| | DIN17102 | STE355 |
| | NFA 35-502 | - |
| | BS4306 | WR50C |
| | UNI | Fe WR 50 C |

WR 50 C steel plate Chemical analysis -% by mass*

| Grades | C max | Si max | Mn | P max | S max. | Cu max | Cr max | Ni max | V max | Nb max | Al min |
|---------|----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|
| WR 50 C | 0.16 | 0.50 | 0.50-1.50 | 0.035 | 0.035 | 0.25-0.55 | 0.40-0.80 | 0.65 | 0.02-0.12 | 0.015-0.060 | 0.02 |

WR 50 C steel sheet Mechanical properties

| Thickness | Yield Strength ReH[N/mm2] transv.min | Tensile Strength Rm[N/mm2]transv | Fracture Elongation[%]transv. min. | Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J] |
|-----------|--|--|--|---|
| - | 355 | 510-610 | 22 | - |

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