

## MATERIAL SPECIFICATIONS

<b>Cold Rolled DC01 (Previously CR4)</b>			
<b>BS EN 10130:2006 Cold Rolled low carbon steel flat products</b>			
<b>Maximum chemical composition for flat and long products of Steel grades % by mass</b>			
Carbon (C)	Manganese (Mn)	Phosphorus (P)	Sulphur (S)
0.12	0.6	0.045	0.45
<b>Yield Strength (Re) Min</b>		<b>Tensile Strength (Rm)</b>	<b>Elongation Min</b>
140 MPa		270-410 MPa	28%

<b>Zintec / Electro-Zinc Coated (DC01+ZE2.5/2.5-AC)</b>			
<b>BS EN 10152:2017 DC01 + ZE</b>			
<b>Maximum chemical composition for flat and long products of Steel grades % by mass</b>			
Carbon (C)	Manganese (Mn)	Phosphorus (P)	Sulphur (S)
0.12	0.6	0.045	0.45
<b>Yield Strength (Re) Min</b>		<b>Tensile Strength (Rm)</b>	<b>Elongation Min</b>
140 MPa		270-410 MPa	28%

<b>Galvanised</b>					
<b>BS EN 10346:2015 DX51D-Z275</b>					
Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)	Sulphur (S)	Titanium (Ti)
0.12	0.5	0.6	0.1	0.045	0.3
<b>Yield Strength (Re) Min</b>		<b>Tensile Strength (Rm)</b>		<b>Elongation Min</b>	
Unspecified		250-500 MPa		22%	

<b>S275 JR</b>							
<b>BS EN 10111:2008 (DD11) Hot rolled products of structural steel</b>							
Carbon (C)			Manganese (Mn)	Phosphorus (P)	Sulphur (S)	Nitrogen (N)	Copper (Cu)
≤16 ≤40	>16 ≤40	>40	1.5	0.035	0.035	0.012	0.55
0.21	0.21	0.22					
<b>Upper yield strength (ReH)</b>				<b>Tensile strength (Rm)</b>			
Nominal Thickness (mm)				Nominal Thickness (mm)			
≤16		>16 ≤40		≤3	>3 ≤100		
275 MPa		265 MPa		430-580 MPa		410-560 MPa	