

HDG PERFORMANCE ACROSS CORROSION ZONES

TYPICAL CORROSIVITY CATEGORIES AND CORROSION RATES OF STEEL AND ZINC				TYPICAL SERVICE LIFE (YEARS) FOR HOT DIP GALVANIZED ARTICLES TO AS/NZS 4680				
Corrosivity Category and Typical Environment		Corrosion Rate (µm/year)		Fabricated article thickness (mm) and coating specification as per AS/NZS 4680				
				≤ 1.5	> 1.5 and ≤ 3.0	> 3.0 and ≤ 6.0	> 6.0	>> 6.0*
		Mild steel	Zinc	45 µm 320 g/m ²	55 µm 390 g/m ²	70 µm 500 g/m ²	85 µm 600 g/m ²	125 µm 900 g/m ²
C1	Dry	≤1.3	≤0.1	100+	100+	100+	100+	100+
C2	Arid/Urban inland	>1.3 to ≤25	>0.1 to ≤0.7	64-100+	78-100+	100+	100+	100+
C3	Coastal or industrial	>25 to ≤50	>0.7 to ≤2.1	21-64	26-78	33-100	40-100+	60-100+
C4	Calm sea-shore	>50 to ≤80	>2.1 to ≤4.2	11-21	13-26	17-33	20-40	30-60
C5	Surf sea-shore	>80 to ≤200	>4.2 to ≤8.4	5-11	7-13	8-17	10-20	15-30
CX	Off-shore	>200 to ≤700	>8.4 to ≤25	2-5	2-7	3-8	3-10	5-15