

RAINHAM STEEL

PHONE: 01708 522311 FAX: 01708 559024

Steel Decking

Available in gauges 0.9 and 1.2mm and in two different material grades, referred to as Z28 and Z35.



Effective cover width 610mm per sheet

Z28 Section Properties (per metre width)

Gauge mm	Self Weight		Area mm ²	Inertia cm ⁴	Yna mm	Moment Capacity			Web Capacity		Shear Bond		
	Kg/m ²	kN/m ²				M+ kNm	M- kNm	Mr kNm	Pw kN	Vc kN	Mr -	Kr -	T kN/m ²
0.9	13.2	0.13	1550	50.0	17.1	5.02	5.18	4.53	37.3	91.0	200.0	0.0050	350
1.2	17.4	0.17	2124	74.2	17.3	7.13	7.21	6.57	52.3	122.0	217.7	-0.0037	560

Z35 Section Properties (per metre width)

Gauge mm	Self Weight		Area mm ²	Inertia cm ⁴	Yna mm	Moment Capacity			Web Capacity		Shear Bond		
	Kg/m ²	kN/m ²				M+ kNm	M- kNm	Mr kNm	Pw kN	Vc kN	Mr -	Kr -	T kN/m ²
0.9	13.2	0.13	1550	55.0	17.1	6.28	6.48	5.06	41.8	91.0	200.0	0.0050	350
1.2	17.4	0.17	2124	81.3	17.3	8.91	9.01	7.35	58.5	122.0	217.7	-0.0037	560

When estimating concrete usage we recommend that -8mm is allowed for voids and +span/250mm allowed for pondong. E.g. 150 slab over 3m unpropped... equivalent sold slab= 150-8+3000/250=154mm (approximation only).