

FLOOR DECKING

Our floor decking boasts of an interlocking feature, which makes it an efficient and cost effective option in multi-storey buildings whenever a high strength concrete floor is required. The decking is normally fastened to the supporting beam by arc spot welding or by shooting steel pins with washers.

Standard concrete is poured into the decking with wire mesh and reinforcing bars used as optional requirements to minimise surface cracking due to shrinkage. After the concrete attains the proper strength, the full live load is shared by the steel and concrete in a highly efficient manner.

Compared to other floor decking systems, CSM's system saves on time and eliminates the need for sealing of the floor's underside.

CSM's decking is zinc coated, which affords a high level of corrosion resistance and conforms to ASTM specifications.



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FLOOR DECKING

PROPERTIES

Nominal thickness of material	Nominal width		Nominal mass per unit length	Largest span without support
mm	mm	(inch)	kg/m	
0.96	625	24.6	6.47	See load table below

NOTES: 1. The standard length of all decking is 6.096m (20 feet) nominal. Tolerance : + 10mm, -5mm
2. The thickness of the material is the total of the steel and the zinc coating.
3. Special cuts can be provided.

LOAD TABLE (Kg/m²) calculated according to BS 5950: Part 4:1994 and Part 6:1995 for uniform loading of single span; concrete cube strength 20 Mpa; concrete density 2400 kg/m³ (wet), 2350 kg/m³ (dry)

Span	Thickness of concrete above metal ribs				
	m	50.8 mm (2")	63.5 mm (2.5")	76.2 mm (3")	88.9 mm (3.5")
1.8	1321	(2677)*	1549 (3200)	1776 (3724)	2004 (4247)
2.0	1022	(2113)	1203 (2532)	1383 (2951)	1564 (3369)
2.2	802	(1697)	948 (2039)	1094 (2380)	1239 (2722)
2.4	636	(1382)	755 (1665)	874 (1948)	993 (2231)
2.6	507	(1138)	605 (1375)	703 (1612)	802 (1850)
2.8	405	(945)	487 (1146)	568 (1347)	650 (1548)
3.0	323	(790)	392 (962)	460 (1134)	528 (1305)
3.2	248	(656)	306 (803)	363 (951)	420 (1099)

Key

italics: excess sag when wet

*no parentheses: without shear studs parentheses: with full shear connection

Note ; values below line results in excess sag when wet

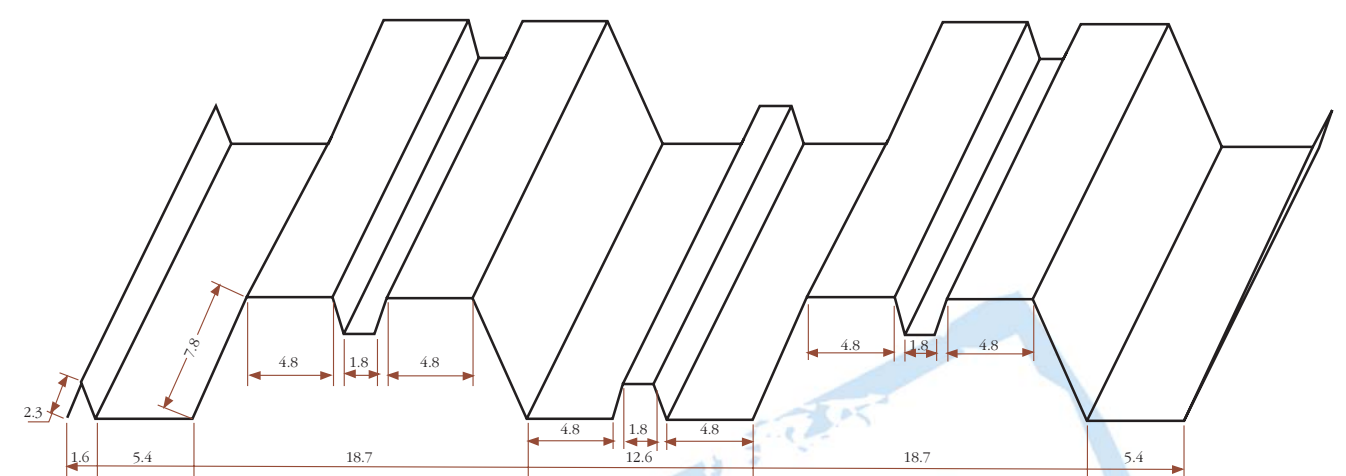
RAW MATERIAL : Hot-Dipped Zinc-Coated (Galvanised) Cold Rolled Steel Sheets - ASTM A 924 M -99 ; ASTM A 653 M - 99

STEEL MECHANICAL PROPERTIES

Min. yield strength	Min. tensile strength	Min. elongation in 50 mm	Bend test ratio of inside bend diameter to thickness
M Pa	M Pa	%	
255	360	18	2

Zinc coating mass: 275 g/m² Triple Spot total of both sides

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Industrial Floor Decking