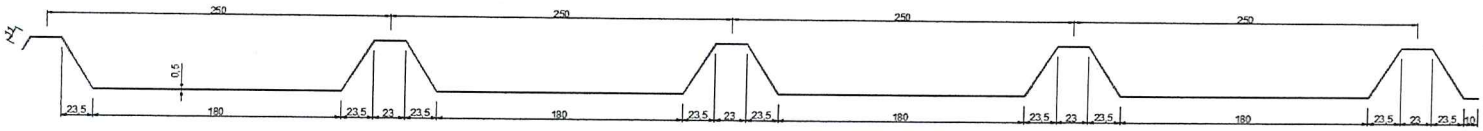
مركز التصميمات و الاستشارات الهندسية
أستاذ دكتور/ أحمد محمود خليفة



- SECTION PROPERTIES:

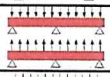
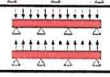
Steel Nominal Thickness mm	Nominal Weight kg/m²	Cross section Area cm²	Effective Top In Compression				Effective Bottom In Compression				Shear
			I_x	Z_x-top	Z_x-Bott.	Ma	I_x	Z_x-top	Z_x-Bott.	Ma	Va
			Cm^4	Cm^3	Cm^3	t.cm	Cm^4	Cm^3	Cm^3	t.cm	ton
0.5	4.9	6.25	11	3.83	11.8	6.7	6.04	3.26	3.2	5.62	1.5

Grade DX51D : Material conforming to EN 10346 Grade DX51D MTC Yield Strength => 300 Mpa.

Effective section and allowable calculated according to Egyptian code of practice for steel construction and bridges (Allowable stress design).

All properties are calculated for 1.0m width for all panels.

- LOAD TABLE [Kg/m²]:

Steel Nominal Thickness mm	Loading Case	Span in cm										
		100	110	120	125	135	145	150	160	170	175	180
0.50 mm 5 Ribs Steel Sheets DX51D Steel Sheets		428	354	297	274	235	204	190	167	148	140	132
		403	333	280	257	220	191	178	157	140	130	123
		536	442	372	342	300	254	237	208	184	174	164
		449	371	312	287	246	261	199	175	155	146	138
		536	442	372	342	300	254	237	208	184	174	164
		448	369	310	286	245	292	198	175	155	146	138

دكتور مهندس
احمد محمود احمد خليفة
قيد: ١٤/١٠٢٠ سجل هندسي: ٤/١٦٢٩

ت / ٠١٠٠١٩٥٩١٦٨ - مكتب 03/4240750 - 03/4245709
٢٧ ميدان فيكتور عمانويل - امام نادى سموحة – الأسكندرية
E mail: khalifa2030@yahoo.com