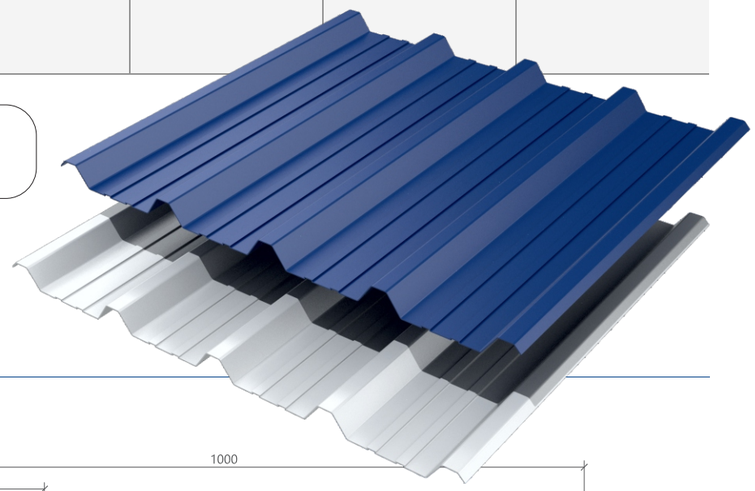
Single Skin Profile Sheet

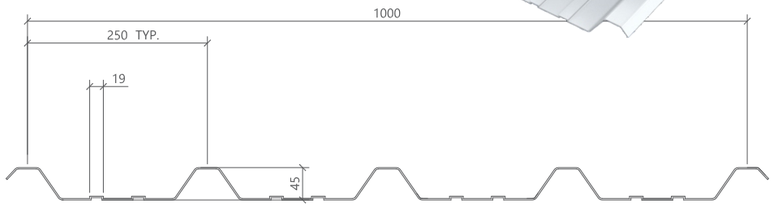
Specification

Top Skin Sheet / Liner Sheet			Surface Coating	
Aluminium	**GI**	**Alu Zinc**	**Weather-Side**	**Reverse-Side**
0.4mm - 0.9mm thickness A3105/A3003 as per Client Project Specification	0.28mm - 0.70mm or 29gauge - 21 gauge as per Client Project Specification ASTM A653 or other equivalent standards like JIS 3302 , EN10326 / 10327, IS 277either Zinc Coating G40 120gms/m² G60 180gms/m² G90 275gms/m²	0.4mm - 0.9mm thickness as per Client Project Specification ASTM A792 with Coating AZ60-AZ180	Polyester top-coat 20 micron over 5 micron of nominal epoxy primer PVDF, Plastisol, ARS shall be applied as per Client Project Specification Top coat color "RAL 9002" or as per Client Sepcified RAL Color	Epoxy Primer 5 - 7 microns Other coating shall be applied as per Client Project Specification Prime coat color "RAL 7035"or as per Client Sepcified RAL Color

AM 45/250®



Design Information



Sectional Properties : AM 45/250® Aluminum

Thickness (mm)	Self weight (kg/m²)	Moment of Resistance (KN-m/m)		Moment of Inertia (cm⁴/m)
		Positive	Negative	
0.50	1.670	0.253	0.248	7.52
0.60	1.980	0.347	0.340	10.1
0.70	2.310	0.440	0.431	12.7
0.80	2.630	0.527	0.516	14.9
0.90	2.960	0.600	0.588	16.9
1.00	3.290	0.660	0.647	18.6

Material : Aluminium sheets conforming to Grade AA-3105, Temper H-16

Aluminium: Permissible Span (mm)

U. D. unfactored Loads KN/LM	Single Span			Double Span			Triple Span		
	Deflection			Deflection			Deflection		
	L/100	L/150	L/200	L/100	L/150	L/200	L/100	L/150	L/200
0.50 mm Thick									
0.50	**2005**	1754	1593	**2133**	**2133**	**2133**	2192	1915	1740
0.75	**1637**	1532	1392	**1741**	**1741**	**1741**	1915	1673	1520
1.00	**1418**	1392	1265	**1508**	**1508**	**1508**	**1686**	1520	1381
1.50	**1157**	**1157**	1105	**1231**	**1231**	**1231**	**1377**	1328	1206
2.00	**1002**	**1002**	**1002**	**1066**	**1066**	**1066**	**1192**	**1192**	1096
2.50	**897**	**897**	**897**	**954**	**954**	**954**	**1066**	**1066**	1017
0.60 mm Thick									
0.50	2217	1936	1759	**2368**	**2368**	**2358**	2421	2115	1921
0.75	**1924**	1692	1537	**1933**	**1933**	**1933**	2115	1847	1678
1.00	**1666**	1537	1396	**1674**	**1674**	**1674**	**1872**	1678	1525
1.50	**1361**	1343	1220	**1367**	**1367**	**1367**	**1528**	1466	1332
2.00	**1178**	**1178**	1108	**1184**	**1184**	**1184**	**1324**	**1324**	1210
2.50	**1054**	**1054**	**1029**	**1059**	**1059**	**1059**	**1184**	**1184**	1124
0.70 mm Thick									
0.50	2390	2088	1897	**2577**	**2577**	2543	2610	2280	2071
0.75	2088	1824	1657	**2104**	**2104**	**2104**	2280	1991	1809
1.00	**1882**	1657	1505	**1823**	**1823**	**1823**	**2038**	1809	1644
1.50	**1537**	1447	1315	**1488**	**1488**	**1488**	**1664**	1581	1436
2.00	**1331**	1315	1195	**1289**	**1289**	**1289**	**1441**	1436	1305
2.50	**1190**	**1190**	1109	**1153**	**1153**	**1153**	**1289**	**1289**	1211
0.80 mm Thick									
0.50	2521	2202	2001	**2790**	**2790**	2682	2753	2405	2185
0.75	2202	1924	1748	**2278**	**2278**	**2278**	2405	2101	1909
1.00	2001	1748	1588	**1973**	**1973**	**1973**	2185	1909	1734
1.50	**1677**	1527	1387	**1611**	**1611**	**1611**	**1875**	1667	1515
2.00	**1452**	1387	1260	**1395**	**1395**	**1395**	**1624**	1515	1376
2.50	**1299**	1288	1170	**1248**	**1248**	**1248**	**1452**	1406	1278
0.90 mm Thick									
0.50	2629	2297	2087	**2969**	**2969**	2797	2871	2508	2278
0.75	2297	2006	1823	**2425**	**2425**	**2425**	2508	2191	1990
1.00	2087	1823	1656	**2100**	**2100**	**2100**	2278	1991	1808
1.50	**1792**	1592	1447	**1714**	**1714**	**1714**	**1917**	1739	1580
2.00	**1552**	1447	1314	**1485**	**1485**	**1485**	**1660**	1580	1435
2.50	**1388**	1343	1220	**1328**	**1328**	**1328**	**1485**	1467	1332
1.00 mm Thick									
0.50	2714	2371	2154	**3115**	**3115**	2888	2964	2589	2352
0.75	2371	2071	1882	**2543**	**2543**	2523	2589	2262	2055
1.00	2154	1882	1710	**2203**	**2203**	**2203**	2352	2055	1867
1.50	**1880**	1644	1494	**1799**	**1799**	**1799**	**2011**	1795	1631
2.00	**1628**	1494	1357	**1558**	**1558**	**1558**	**1741**	1631	1482
2.50	**1457**	1387	1260	**1393**	**1393**	**1393**	**1558**	1514	1376

Figures in bold represent spans that are governed by bending moment.
Calculations are based on BS 8118 - Part 1 (1998) and on a limiting stress 170 N/MM2