

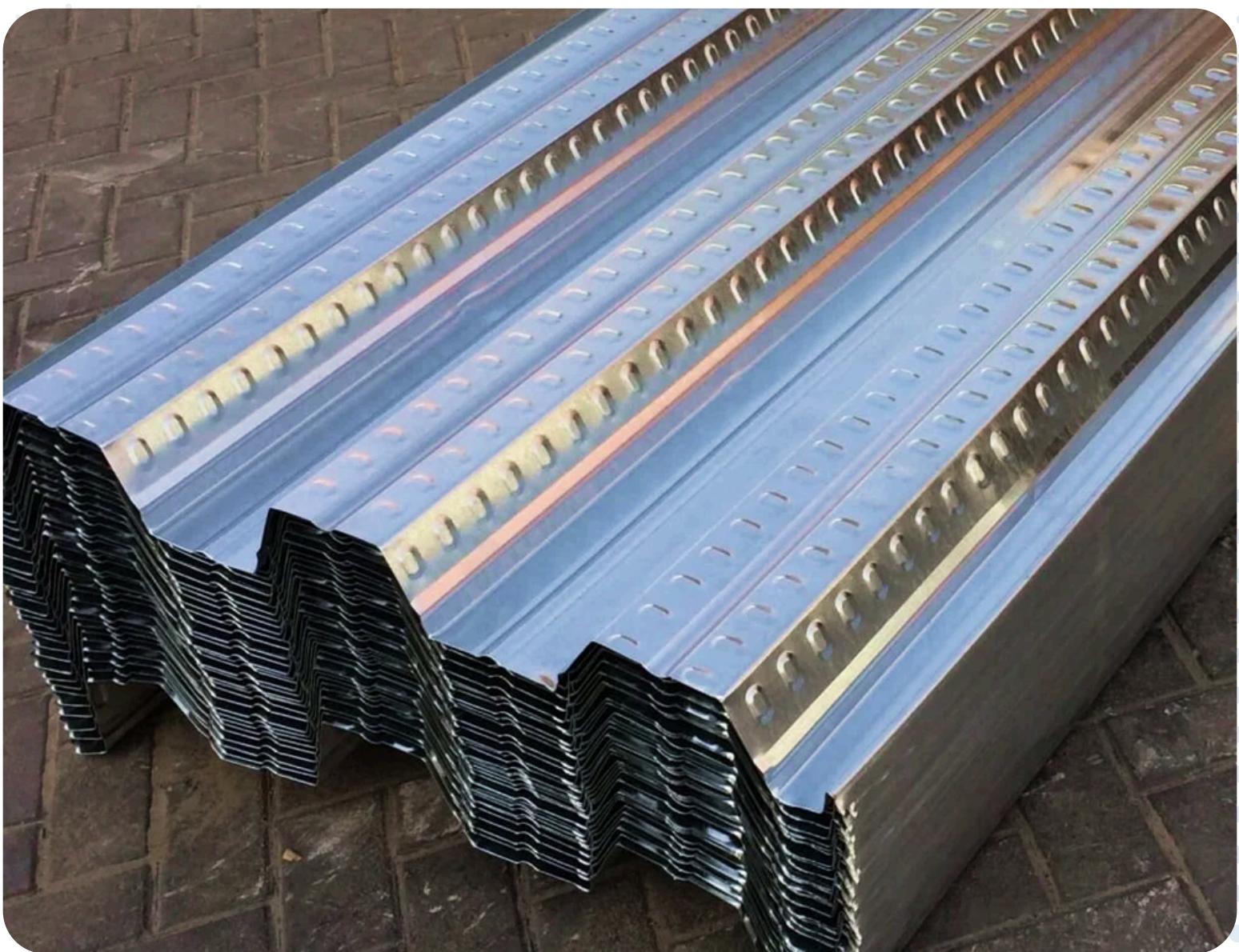


ACIER STEEL PVT. LTD.

Building Tomorrow's Infrastructure, Today

Metal Decking Sheets

Composite Floor Deck



Factory Address:

A6/1, Taloja MIDC, Navi Mumbai, Maharashtra 410208

Phone: +91 86557 03383 | Landline: 022-683 27164

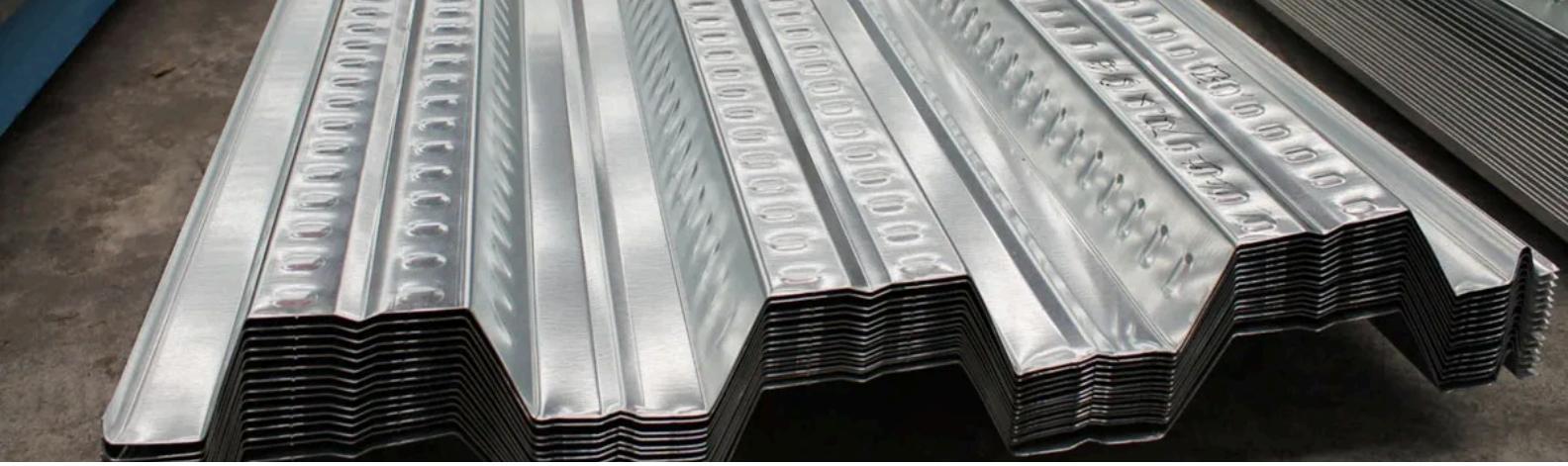
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[Click here for factory location](#)





INTRODUCTION

ACIER STEEL PVT. LTD., A Trusted Name In The Steel Industry, Operates Two Manufacturing Units At Taloja MIDC And Turbhe MIDC, Supported By A Dedicated Sales And Marketing Office In Mumbai. The Company Specializes In Producing Colour Coated Roofing Sheets, Metal Decking Sheets, Z & C Purlins, And Roofing Accessories, Backed By ISO-Grade Quality Standards.

METAL DECKING SHEETS

Metal Decking Sheets Are High-Strength, Corrugated Steel Sheets Used As A Permanent Formwork And Reinforcement For Concrete Slabs. They Reduce Construction Time, Provide Excellent Load-Bearing Capacity, And Add Durability To Structures.

With Two State-Of-The-Art Manufacturing Machines At Taloja MIDC And Raw Material From Trusted Brands Like JSW, TATA, And AMNS, Acier Steel Pvt. Ltd. Manufactures GI Decking Sheets In 0.80 Mm To 1.20 Mm Thickness, Available In 250 MPA And 350 MPA Grades. Widely Used In Multi-Storey Buildings, Commercial Complexes, Malls, Warehouses, Silos, Bridges, Walkways, And Mezzanines, Our Decking Sheets Are Customized To Size, Delivered Quickly (Within 24 Hours), And Designed To Offer Cost-Effective, Long-Term Performance.

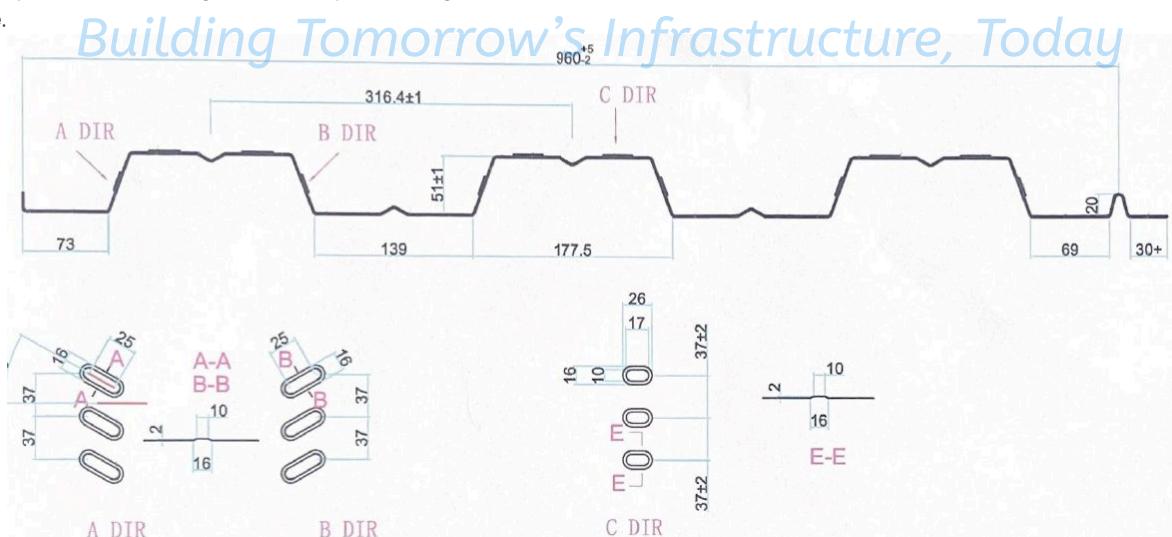
At Acier Steel, We Specialize In Customized Sizes, Quick Delivery Usually Within 24 Hours, And Cost-Effective Solutions, Ensuring Every Project Is Completed With Strength, Reliability, And Long-Term Performance.

TECHNICAL SPECIFICATIONS

ACIER METAL DECKING SHEETS Are Manufactured With Advanced Roll-Forming Technology To Ensure Precision, Strength, And Durability.

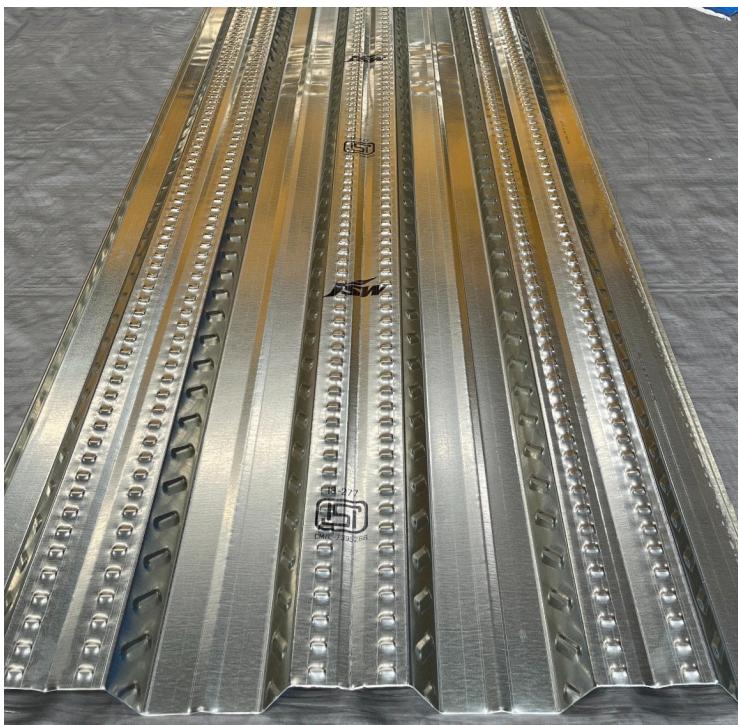
- **CREST HIGH: 51 Mm**
- **Thickness Range: 0.80 Mm To 1.20 Mm**
- **Width: 980–1000 Mm Width, Effective Cover ~960 Mm)**
- **Length: Up To 12,000 Mm (CUSTOMIZATION UPTO 12000 MM)**
- **Grades: 250 MPA & 350 MPA (As Per Requirement)**
- **Material: High-Strength Galvanized Steel Conforming To IS:277**
- **Finish: Galvanized**
- **Coating Options: 80 GSM, 120 GSM, 275 GSM**
- **Brand Options: TATA, JSW, AMNS**

We Also Provide Customized Sizes And Ensure Decking Sheets Are Supplied In A Ready- To-Use Format, Minimizing Wastage And Ensuring Faster Erection At Site.



Advantages Of Our GI Decking Sheets

- **High Load Capacity** – Available In 250 MPA And 350 MPA Grades For Strong Structural Support
- **Faster Slab Casting** – Eliminates The Need For Temporary Shuttering, Reducing Labor And Project Time
- **Excellent Bonding** – Uniform Embossments Provide Better Grip Between Sheet And Concrete
- **Corrosion Resistance** – Choose From 80 GSM, 120 GSM, Or 275 GSM Galvanized Coating
- **Custom Lengths Available** – Cut-To-Size Sheets Reduce On-Site Cutting And Wastage
- **Durable Material** – Manufactured Using Premium-Grade Steel From JSW, TATA, And AMNS Strong Structural Support



RIGHT SCREWS FOR DECKING SHEETS

Complete Your Project With The Right Fasteners

Every Strong Structure Deserves Equally Strong Fasteners. Our Self-Drilling Screws Are Engineered For Decking Sheet Installation, Ensuring Long-Lasting Performance, Secure Grip, And Hassle-Free Fixing.



12G - 24TPI - 32mm

DRILLS UPTO 12MM STEEL

Key Features

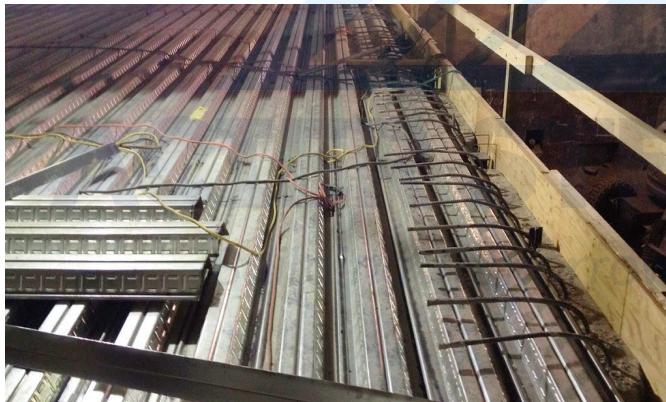
- **Epoxy Coated** – Excellent Corrosion Resistance
- **High Drilling Capacity** – 12G, 24 TPI Drills Up To 12 Mm Steel
- **Strong Grip** – Secure Fastening For Metal Decking Sheets
- **Easy Installation** – Self-Drilling Tip Saves Time & Labor On-Site
- **Reliable Performance** – Best Quality Steel For Heavy-Duty Use
- **Convenient Packing** – 250 Pcs Per Box For Bulk Projects

Trusted For Quality & Reliability

The Perfect Choice For Metal Decking Sheet Applications.

Why Decking Sheets Are Preferred Over Conventional Shuttering

Modern Construction Demands Speed, Strength, And Efficiency. Traditional Shuttering Methods Are Time-Consuming, Labor-Intensive, And Generate High Wastage. In Comparison, Metal Decking Sheets Act As Both Permanent Shuttering And Reinforcement, Offering Faster Slab Casting, Reduced Manpower, And Long-Term Durability. This Makes Decking Sheets The Smarter, Cost-Effective Choice For Multi-Storey Buildings, Warehouses, And Large Infrastructure Projects.



Feature	Metal Decking Sheets	Conventional Shuttering
⌚ Slab Casting Speed	✓ Quick – no removal required	✗ Slow – requires fixing and removal
👷 Labor Requirement	✓ Low – minimal manpower needed	✗ High – carpenters and removal team
♻️ Material Wastage	✓ Minimal – cut-to-size sheets	✗ High wastage of timber/ply
⚡ Strength & Support	✓ Permanent tensile reinforcement	✗ Temporary, no strength contribution
🔒 Durability	✓ Long-term, remains part of structure	✗ Removed after use, no lasting benefit
💰 Cost Efficiency	✓ Saves time + labor → lower cost	✗ More labor + time → higher cost

Span Load Tables Steel Grade S250

Span	Gauge (mm)	Span (m) Results are Maximum Load (kg/m ²)																			
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90
Single	0.7	741	674	617	570	529	494	463	436	394	-	-	-	-	-	-	-	-	-	-	-
	0.8	954	868	795	734	682	636	597	548	489	439	396	-	-	-	-	-	-	-	-	-
	0.9	1192	1084	994	917	852	795	745	662	590	530	478	434	395	-	-	-	-	-	-	-
	1.0	1453	1321	1211	1118	1038	969	882	782	697	626	565	512	467	427	392	-	-	-	-	-
	1.2	2039	1854	1700	1569	1457	1330	1169	1036	924	829	748	679	618	566	520	479	443	403	-	-
Double	0.7	715	635	569	513	466	425	391	360	-	-	-	-	-	-	-	-	-	-	-	-
	0.8	910	807	722	651	591	540	495	456	422	392	365	-	-	-	-	-	-	-	-	-
	0.9	1113	987	882	795	721	657	602	554	512	475	442	413	386	362	-	-	-	-	-	-
	1.0	1323	1171	1045	941	852	776	710	653	603	559	519	484	453	424	398	375	-	-	-	-
	1.2	1774	1566	1394	1252	1131	1028	939	862	794	734	681	634	592	554	520	489	460	434	411	389
Multiple	0.7	831	739	663	599	545	498	458	423	392	364	-	-	-	-	-	-	-	-	-	-
	0.8	1057	940	843	761	692	632	581	536	496	461	430	402	377	-	-	-	-	-	-	-
	0.9	1296	1150	1030	930	844	771	708	652	604	560	522	488	457	429	404	381	-	-	-	-
	1.0	1542	1367	1223	1102	999	912	836	769	711	660	614	573	536	503	473	446	421	-	-	-
	1.2	2073	1833	1635	1470	1331	1211	1108	1018	940	870	808	753	704	660	619	583	549	519	491	465

Span Load Tables Steel Grade S350

Span	Gauge (mm)	Span (m) Results are Maximum Load (kg/m ²)																			
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90
Single	0.7	876	796	730	674	625	584	547	515	486	452	408	370	-	-	-	-	-	-	-	-
	0.8	1130	1027	942	869	807	753	706	665	628	588	528	456	397	-	-	-	-	-	-	-
	0.9	1411	1283	1176	1086	1008	941	882	830	784	708	621	537	467	409	-	-	-	-	-	-
	1.0	1719	1562	1432	1322	1228	1146	1074	1011	923	829	718	620	539	472	415	368	-	-	-	-
	1.2	2412	2193	2010	1855	1723	1608	1507	1374	1225	1081	927	800	696	609	536	474	422	377	-	-
Double	0.7	824	729	651	586	530	483	442	407	375	-	-	-	-	-	-	-	-	-	-	-
	0.8	1052	930	830	747	676	616	563	518	478	443	412	384	-	-	-	-	-	-	-	-
	0.9	1304	1153	1029	925	838	763	698	641	592	548	509	475	444	416	390	367	-	-	-	-
	1.0	1573	1390	1240	1115	1009	918	840	772	712	659	612	571	533	499	469	441	416	393	372	-
	1.2	2147	1895	1688	1616	1370	1245	1138	1045	963	891	827	770	718	672	631	593	559	527	499	472
Multiple	0.7	960	851	761	686	622	568	520	479	443	411	382	-	-	-	-	-	-	-	-	-
	0.8	1226	1087	971	875	794	724	663	611	564	523	487	454	425	399	375	-	-	-	-	-
	0.9	1520	1347	1204	1085	988	897	822	756	699	648	603	563	526	494	464	437	413	390	369	-
	1.0	1835	1625	1452	1307	1185	1080	989	910	841	780	725	676	633	593	558	525	495	468	436	392
	1.2	2508	2218	1979	1780	1611	1467	1343	1234	1139	1055	980	914	854	800	751	707	667	628	563	507

Building Tomorrow's Infrastructure, Today

Span Load Tables Steel Grade S550

Span	Gauge (mm)	Span (m) Results are Maximum Load (kg/m ²)																				
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
Single	0.7	1099	999	915	845	785	732	687	646	603	513	440	380	330	289	254	225	200	179	160	144	130
	0.8	1417	1288	1181	1090	1012	944	885	833	725	616	528	456	397	347	306	270	240	215	192	173	156
	0.9	1769	1608	1474	1381	1263	1179	1106	1012	852	725	621	537	467	409	360	318	283	253	226	204	184
	1.0	2155	1959	1796	1658	1539	1437	1347	1169	985	837	718	620	539	472	415	368	327	292	262	235	213
	1.2	3024	2749	2520	2326	2160	2016	1810	1509	1271	1081	927	800	696	609	536	474	422	377	338	304	275
Double	0.7	1032	913	815	733	664	605	553	509	470	435	405	377	353	331	310	292	276	260	247	234	217
	0.8	1328	1175	1050	944	855	779	713	656	606	561	522	487	455	426	401	377	356	336	318	289	261
	0.9	1655	1465	1308	1177	1067	972	890	818	756	700	651	607	568	532	500	471	444	420	377	340	307
	1.0	1999	1769	1579	1421	1287	1172	1073	987	911	844	785	731	684	641	602	567	534	486	436	392	355
	1.2	2743	2425	2163	1944	1759	1600	1464	1345	1241	1149	1067	994	929	870	817	768	703	628	563	507	458
Multiple	0.7	1202	1065	953	859	779	710	651	600	554	514	479	447	418	392	369	347	328	298	267	240	217
	0.8	1547	1372	1227	1106	1003	915	839	773	715	663	617	576	539	506	476	448	401	358	321	289	261
	0.9	1928	1710	1530	1379	1251	1141	1047	964	891	827	770	719	673	631	594	530	471	421	377	340	307
	1.0	2330	2065	1847	1664	1510	1377	1263	1162	1075	997	928	866	810	760	692	613	545	486	436	392	355
	1.2	3200	2834	2532	2280	2066	1883	1725	1587	1466	1359	1264	1179	1102	1015	894	791	703	628	563	507	458

Span Load Tables Criteria

- Deflection limit = span/130
- Based upon un-propped construction
- Spans are centre to centre of 100mm supports
- 1.5 load factor included assuming all loading is imposed in accordance with Eurocodes

Slab Depth Tables Steel Grade S250

Span (m) Results are Maximum Overall Slab Depth (mm)

Span	Gauge (mm)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
Single	0.7	243	218	197	179	163	150	138	128	112	-	-	-	-	-	-	-	-	-	-	-	-
	0.8	323	291	263	240	220	203	188	170	148	129	113	-	-	-	-	-	-	-	-	-	-
	0.9	413	372	338	309	284	263	244	213	186	163	143	127	112	-	-	-	-	-	-	-	-
	1.0	511	461	419	384	354	328	295	257	225	199	176	156	139	124	110	-	-	-	-	-	-
	1.2	731	661	603	554	511	464	403	352	310	275	244	218	195	175	158	142	129	114	-	-	-
Double	0.7	233	203	178	157	139	124	111	100	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.8	306	268	236	209	186	167	150	135	123	111	101	-	-	-	-	-	-	-	-	-	-
	0.9	383	335	296	263	235	211	190	172	156	142	130	119	109	100	-	-	-	-	-	-	-
	1.0	462	404	357	317	284	255	230	209	190	173	158	145	133	123	113	104	-	-	-	-	-
	1.2	631	552	488	434	388	349	316	287	261	239	219	201	185	171	158	146	135	126	117	108	101
Multiple	0.7	277	242	214	190	169	152	136	123	111	101	-	-	-	-	-	-	-	-	-	-	-
	0.8	362	318	281	250	224	202	182	165	151	137	126	115	105	-	-	-	-	-	-	-	-
	0.9	452	397	352	314	281	254	230	209	191	174	160	147	135	125	115	107	-	-	-	-	-
	1.0	544	478	424	378	340	306	278	253	231	211	194	179	165	152	141	131	121	113	105	-	-
	1.2	744	653	579	516	464	419	380	346	316	290	267	246	227	211	195	182	169	158	147	137	127

Slab Depth Tables Steel Grade S350

Span (m) Results are Maximum Overall Slab Depth (mm)

Span	Gauge (mm)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
Single	0.7	294	264	239	218	200	184	170	158	147	134	118	103	-	-	-	-	-	-	-	-	-
	0.8	389	351	318	291	268	247	230	214	200	185	163	135	113	-	-	-	-	-	-	-	-
	0.9	495	447	407	372	343	318	296	276	259	230	197	165	139	117	-	-	-	-	-	-	-
	1.0	611	552	503	461	426	395	368	344	311	275	233	196	166	141	119	101	-	-	-	-	-
	1.2	872	789	720	662	612	568	530	480	424	369	311	264	224	192	164	141	121	104	-	-	-
Double	0.7	274	239	209	185	164	146	131	117	105	-	-	-	-	-	-	-	-	-	-	-	-
	0.8	360	314	277	245	218	196	176	159	144	130	119	108	-	-	-	-	-	-	-	-	-
	0.9	455	398	351	312	279	251	226	205	186	170	155	142	130	120	110	102	-	-	-	-	-
	1.0	556	487	430	383	343	309	279	254	231	211	194	178	164	151	139	129	119	111	103	-	-
	1.2	772	677	599	533	478	432	391	356	325	298	274	252	233	215	200	185	173	161	150	140	131
Multiple	0.7	326	285	251	222	198	178	160	144	131	119	108	-	-	-	-	-	-	-	-	-	-
	0.8	426	373	330	293	263	236	214	194	176	161	147	135	124	114	105	-	-	-	-	-	-
	0.9	536	471	417	372	334	301	273	248	227	207	190	175	161	149	138	128	119	110	102	-	-
	1.0	655	575	510	456	409	370	336	306	280	257	236	218	201	186	173	161	149	139	127	111	-
	1.2	908	798	708	633	570	515	468	427	391	360	332	306	284	264	245	228	213	199	174	153	134

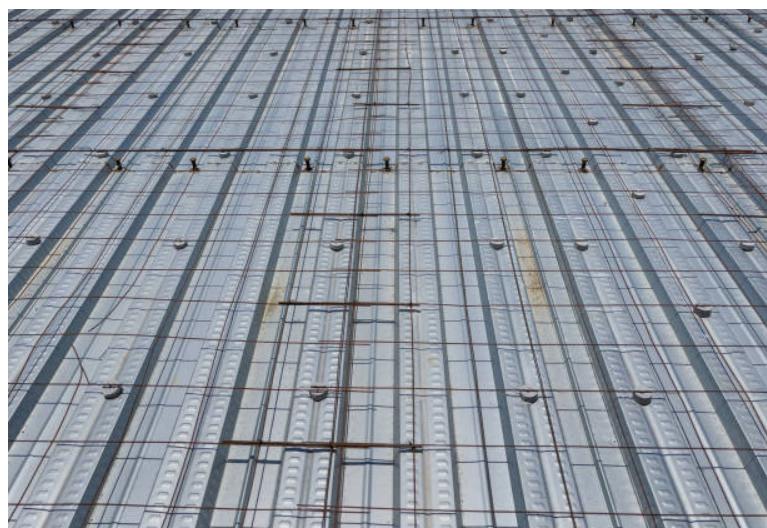
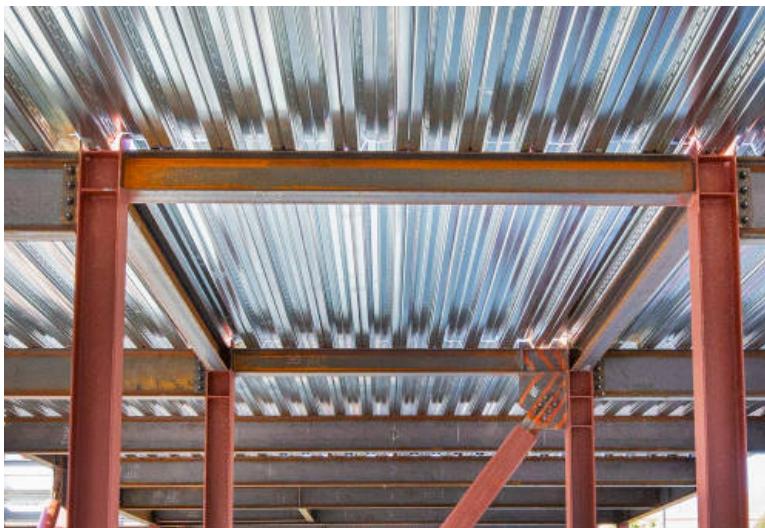
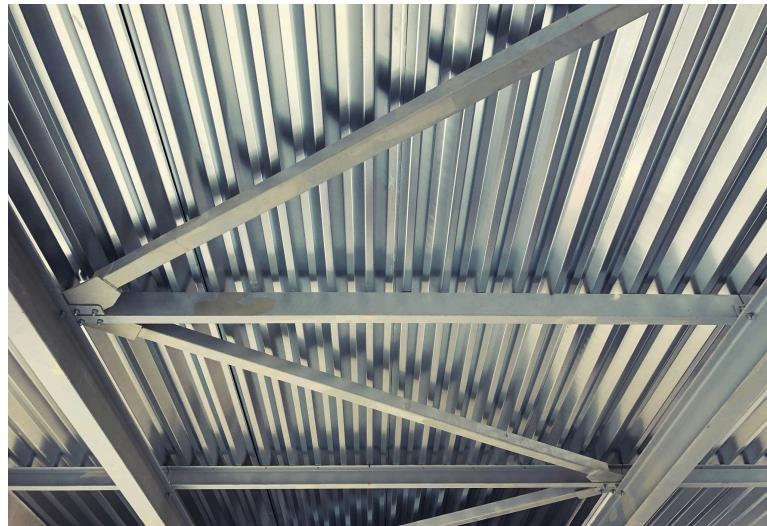
Slab Depth Tables Steel Grade S550

Span (m) Results are Maximum Overall Slab Depth (mm)

Span	Gauge (mm)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
Single	0.7	378	340	309	282	260	240	223	207	191	157	130	107	-	-	-	-	-	-	-	-	-
	0.8	498	449	409	374	345	320	297	278	237	196	163	135	113	-	-	-	-	-	-	-	-
	0.9	630	569	519	476	440	408	380	345	284	236	197	165	139	117	-	-	-	-	-	-	-
	1.0	775	701	640	588	543	504	471	403	334	278	233	196	166	141	119	101	-	-	-	-	-
	1.2	1102	999	912	839	776	722	644	531	441	369	311	264	224	192	164	141	121	104	-	-	-
Double	0.7	353	308	271	240	214	192	172	156	141	128	116	106	-	-	-	-	-	-	-	-	-
	0.8	464	407	359	320	286	257	232	211	192	175	160	147	135	124	114	106	-	-	-	-	-
	0.9	587	515	456	407	365	329	299	272	248	227	209	192	177	164	152	140	130	121	105	-	-
	1.0	717	630	558	499	448	405	367	335	306	281	258	238	220	204	190	176	164	146	127	111	-
	1.2	996	876	777	695	625	565	514	469	430	395	364	337	312	290	270	252	227	199	174	153	134
Multiple	0.7	417	366	323	288	258	232	209	190	173	158	144	132	121	112	103	-	-	-	-	-	-
	0.8	547	481	426	381	342	309	280	255	233	213	196	181	167	154	143	132	114	-	-	-	-
	0.9	690	608	540	483	435	393	358	326	299	275	253	234	217	201	187	163	141	122	105	-	-
	1.0	841	742	659	590	532	482	439	401	368	339	313	289	268	249	224	194	168	146	127	111	-
	1.2	1169	1031	917	822	741	672	612	560	515	474	438	406	378	345	299	260	227	199	174	153	134

Span Depth Table Criteria

- This table is based upon concrete poured to a constant thickness and does not take account of deflection of the decking or supporting beams – as a guide, to account for the deflection of the decking, a volume of span/250 should be added to the figures indicated in the Concrete Volume and Weight table
- Concrete weight indicated does not include the weight of the deck profile
- Concrete weight is based upon concrete density of 26kN/m³
- Overall slab depth includes deck profile
- Deflection limit = span/130
- Based upon un-propped construction
- Construction imposed load is taken as 1.5kN/m²
- Spans are centre to centre of 100mm supports



ACIER STEEL PVT. LTD.
Building Tomorrow's Infrastructure, Today

Factory & Manufacturing Units

-  A6/1, Taloja MIDC,
Navi Mumbai, Maharashtra 410208, India
-  C411, TTC Industrial Area, Turbhe MIDC,
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