

2.0E LVL Joist

Allowable Loads & Minimum Bearing Lengths. Deflection limited to L/360 or 1/4" Max.

2.0E LVL JOIST ALLOWABLE LOADS AND MINIMUM BEARING LENGTHS

Span (ft)	Thickness (in)		1½" JOIST							1¾" JOIST							2¼" JOIST							
	Depth (in)		3½	4½	5½	6½	7½	9¼	11¼	3½	4½	5½	6½	7½	9¼	11¼	3½	4½	5½	6½	7½	9¼	11¼	
4	Simple Span	Conc + DL [plf]	222	473	864	1428	1856	2115	2114	259	552	1008	1666	2165	2467	2466	333	709	1297	2142	2783	3172	3171	
		Total Load [plf]	591	928	1215	1555	1856	2115	2114	689	1082	1417	1814	2165	2467	2466	886	1392	1822	2332	2783	3172	3171	
	Continuous Spans	Conc + DL [plf]	420	727	933	1186	1418	2105	2905	490	848	1088	1384	1654	2456	3390	630	1091	1399	1779	2126	3158	4358	
		Total Load [plf]	543	727	933	1186	1418	2105	2905	633	848	1088	1384	1654	2456	3390	814	1091	1399	1779	2126	3158	4358	
Minimum End Bearing (in)		1½		1½	2½	3	3½	4	4	1½	1½	2½	3	3½	4	4	1½	1½	2½	3	3½	4	4	
Minimum Intermediate Bearing (in)		3½		3½	3½	5	6¼	7½	7½	3½	3½	3½	5	6¼	7½	7½	3½	3½	3½	5	6¼	7½	7½	
5	Simple Span	Conc + DL [plf]	113	241	442	730	1013	1718	1717	132	281	515	851	1182	2004	2003	169	362	662	1095	1520	2576	2575	
		Total Load [plf]	378	594	853	1123	1310	1718	1717	441	693	995	1310	1528	2004	2003	566	891	1279	1684	1965	2576	2575	
	Continuous Spans	Conc + DL [plf]	214	457	697	866	1006	1456	1930	250	533	814	1010	1174	1699	2252	322	685	1046	1298	1509	2185	2895	
		Total Load [plf]	378	552	697	866	1006	1456	1930	441	644	814	1010	1174	1699	2252	566	828	1046	1298	1509	2185	2895	
Minimum End Bearing (in)		1½		1½	2	2½	3¼	4	4	1½	1½	2	2½	3¼	4	4	1½	1½	2	2½	3¼	4	4	
Minimum Intermediate Bearing (in)		3½		3½	3½	4½	5¼	7¼	7¼	3½	3½	3½	4½	5¼	7¼	7¼	3½	3½	3½	4½	5¼	7¼	7¼	
6	Simple Span	Conc + DL [plf]	65	139	255	421	585	1218	1445	76	162	297	491	683	1421	1686	97	208	382	632	878	1827	2168	
		Total Load [plf]	262	412	592	799	973	1433	1445	305	481	690	933	1136	1672	1686	393	618	887	1199	1460	2150	2168	
	Continuous Spans	Conc + DL [plf]	123	264	482	684	787	1104	1444	144	308	563	798	918	1288	1685	185	395	724	1026	1180	1656	2167	
		Total Load [plf]	262	412	558	684	787	1104	1444	305	481	651	798	918	1288	1685	393	618	838	1026	1180	1656	2167	
Minimum End Bearing (in)		1½		1½	1½	2¼	2¼	4	4	1½	1½	1½	2¼	2¼	4	4	1½	1½	1½	2¼	2¼	4	4	
Minimum Intermediate Bearing (in)		3½		3½	3½	4½	5	7¼	7¼	3½	3½	3½	4½	5	7¼	7¼	3½	3½	3½	4½	5	7¼	7¼	
7	Simple Span	Conc + DL [plf]	87	160	264	368	766	1247		101	186	308	429	893	1455	60	130	239	397	551	1148	1871		
		Total Load [plf]	302	434	587	714	1108	1247		353	506	684	833	1293	1455	288	453	651	880	1072	1663	1871		
	Continuous Spans	Conc + DL [plf]	77	165	303	501	647	890	1154	90	193	353	585	754	1038	1346	116	248	454	752	970	1335	1731	
		Total Load [plf]	192	302	434	566	647	890	1154	224	353	506	660	754	1038	1346	288	453	651	848	970	1335	1731	
Minimum End Bearing (in)		1½		1½	1½	2	2¼	3¼	4	1½	1½	1½	2	2¼	3¼	4	1½	1½	1½	2	2¼	3¼	4	
Minimum Intermediate Bearing (in)		3½		3½	3½	4	4¼	7	7¼	3½	3½	3½	4	4¼	7	7¼	3½	3½	3½	4	4¼	7	7¼	
8	Simple Span	Conc + DL [plf]	54	99	165	230	479	865		63	116	193	268	559	1009		81	149	248	345	719	1297		
		Total Load [plf]	231	332	449	546	848	1097		269	387	523	637	989	1280		346	498	673	819	1272	1646		
	Continuous Spans	Conc + DL [plf]	103	189	314	436	746	960	56	120	221	366	509	870	1120	72	155	284	471	654	1119	1440		
		Total Load [plf]	231	332	449	546	746	960	171	269	387	523	637	870	1120	220	346	498	673	819	1119	1440		
Minimum End Bearing (in)		1½		1½	1½	2	3¼	4	1½	1½	1½	1½	2	3¼	4	1½	1½	1½	1½	2	3¼	4		
Minimum Intermediate Bearing (in)		3½		3½	3½	4¼	6¼	7¼	3½	3½	3½	3½	4¼	6¼	7¼	3½	3½	3½	3½	4¼	6¼	7¼		
9	Simple Span	Conc + DL [plf]			61	102	142	298	538		71	119	166	348	628		92	153	214	447	807			
		Total Load [plf]			262	354	431	669	952		305	413	503	781	1111		393	531	647	1004	1429			
	Continuous Spans	Conc + DL [plf]		64	117	195	271	565	822		74	137	227	316	660	959		96	176	292	407	848	1233	
		Total Load [plf]		182	262	354	431	642	822		212	305	413	503	750	959		273	393	531	647	964	1233	
Minimum End Bearing (in)		1½		1½	1½	1½	2¼	4		1½	1½	1½	1½	2¼	4		1½	1½	1½	1½	2¼	4		
Minimum Intermediate Bearing (in)		3½		3½	3½	4	6¼	7¼		3½	3½	3½	4	6¼	7¼		3½	3½	3½	4	6¼	7¼		
10	Simple Span	Conc + DL [plf]				66	92	194	352				77	108	227	410			59	99	139	291	527	
		Total Load [plf]				286	349	541	771				334	407	631	899			317	429	523	812	1156	
	Continuous Spans	Conc + DL [plf]			76	127	177	370	667			89	148	206	431	779		62	115	191	265	555	1001	
		Total Load [plf]			212	286	349	541	719			247	334	407	631	838		221	317	429	523	812	1078	
Minimum End Bearing (in)				1½	1½	1½	2¼	3½			1½	1½	1½	2¼	3½		1½	1½	1½	1½	2¼	3½		
Minimum Intermediate Bearing (in)				3½	3½	3½	5¼	7¼			3½	3½	3½	5¼	7¼		3½	3½	3½	3½	5¼	7¼		
11	Simple Span	Conc + DL [plf]				62	132	239				52	73	153	279				67	93	197	358		
		Total Load [plf]				288	447	636				275	336	521	742				354	431	670	954		
	Continuous Spans	Conc + DL [plf]			51	86	120	251	454			60	100	140	293	530			77	129	180	377	682	
		Total Load [plf]			174	236	288	447	636			204	275	336	521	742			262	354	431	670	954	
Minimum End Bearing (in)				1½	1½	1½	2¼	3¼			1½	1½	1½	2¼	3¼			1½	1½	1½	2¼	3¼		
Minimum Intermediate Bearing (in)				3½	3½	3½	5¼	7¼			3½	3½	3½	5¼	7¼			3½	3½	3½	5¼	7¼		
12	Simple Span	Conc + DL [plf]					92	167					50	107	195					65	138	251		
		Total Load [plf]					375	534					281	437	623					362	562	801		
	Continuous Spans	Conc + DL [plf]			60	84	176	320				70	98	206	373			54	90	126	265	479		
		Total Load [plf]			198	241	375	534				231	281	437	623			219	297	362	562	801		
Minimum End Bearing (in)					1½	1½	2¼	3				1½	1½	2¼	3			1½	1½	1½	2¼	3		
Minimum Intermediate Bearing (in)					3½	3½	4¼	6¼				3½	3½	4¼	6¼			3½	3½	3½	4¼	6¼		
13	Simple Span	Conc + DL [plf]					66	120						77	140						99	180		
		Total Load [plf]					319	454						372	530						478	681		
	Continuous Spans	Conc + DL [plf]				60	127	231				50	70	148	269					64	90	191	346	
		Total Load [plf]				205	319	454				196	239	372	530					252	308	478	681	
Minimum End Bearing (in)						1½	2	2¼				1½	1½	2	2¼				1½	1½	2	2¼		
Minimum Intermediate Bearing (in)						3½	4¼	6¼				3½	3½	4¼	6¼				3½	3½	4¼	6¼		
14	Simple Span	Conc + DL [plf]						88							56	103						72	132	
		Total Load [plf]						391							320	456						412	587	
	Continuous Spans	Conc + DL [plf]						94	170						51	109	199					66	140	256
		Total Load [plf]						274	391						206	320	456					265	412	587
Minimum End Bearing (in)							1½	2¼						1½	1½	2¼					1½	1½	2¼	
Minimum Intermediate Bearing (in)							4	5¼						3½	4	5¼					3½	4	5¼	

Notes:

- Table values are for beam orientation except for shaded cells.
- Span is measured from center to center of supports.
- Table values for Conc + DL (concrete plus dead load) are limited by deflection equal to the lesser of 1/4 inch or span/360.
- Table values have been adjusted by $C_M = 0.90$ for unprotected use. Total Load has also been adjusted by $C_D = 1.25$ for construction load duration.
- Table values are for joist spacings of 24 inches on center or less.
- Continuous Spans values are based on the worst case of 2 or 3 equal, continuous spans. Use sizing software or consult a professional engineer when a continuous span is less than half the length of an adjacent span, when loading is not uniform, or when design conditions are otherwise outside the scope of this table.

How To Use These Tables:

- Determine the Conc + DL (concrete plus dead load) and Total Load in pounds per lineal foot (plf) that must be supported by the formwork. Neglect joist weight.
- Select a table that matches the width of the joist under consideration.
- Select a span from the first column.
- Select Simple Span or Continuous Spans from the second column.
- Scan across the table for a pair of Conc + DL and Total Load values that exceed the design requirements identified in Step 1.
- Support across the full width of each joist is required. Verify that the required Minimum End/Intermediate Bearing length can be provided. If not, consider wider joists and return to Step 2.
- Select the joist depth at the top of the column that satisfies the criteria provided by Steps 5 and 6.

2.0E LVL Joist

Allowable Loads & Minimum Bearing Lengths. Deflection limited to L/360 or 1/4" Max.

2.0E LVL JOIST ALLOWABLE LOADS AND MINIMUM BEARING LENGTHS

Span (ft)	Thickness (in)		2½" JOIST						3½" JOIST							
	Depth (in)		3½	4½	5½	6½	7½	9½	11½	3½	4½	5½	6½	7½	9½	11½
4	Simple Span	Conc + DL [plf]	370	788	1441	2380	3093	3525	3523	518	1103	2017	3332	4330	4935	4933
		Total Load [plf]	985	1546	2025	2591	3093	3525	3523	839	2165	2834	3628	4330	4935	4933
	Continuous Spans	Conc + DL [plf]	700	1212	1555	1977	2363	3509	4842	665	1697	2177	2768	3308	4913	6779
		Total Load [plf]	905	1212	1555	1977	2363	3509	4842	665	1697	2177	2768	3308	4913	6779
	Minimum End Bearing (in)		1½	1½	2¼	3	3½	4	4	1½	1½	2¼	3	3½	4	4
Minimum Intermediate Bearing (in)		3½	3½	3½	5	6¼	7¼	7¼	3½	3½	3½	5	6¼	7¼	7¼	
5	Simple Span	Conc + DL [plf]	188	402	736	1216	1689	2863	2861	264	563	1030	1703	2365	4008	4006
		Total Load [plf]	629	990	1421	1871	2183	2863	2861	546	1386	1990	2620	3057	4008	4006
	Continuous Spans	Conc + DL [plf]	357	761	1162	1443	1677	2427	3217	500	1066	1627	2020	2348	3398	4504
		Total Load [plf]	629	920	1162	1443	1677	2427	3217	510	1289	1627	2020	2348	3398	4504
	Minimum End Bearing (in)		1½	1½	2	2¾	3¼	4	4	1½	1½	2	2¾	3¼	4	4
Minimum Intermediate Bearing (in)		3½	3½	3½	4½	5¼	7¼	7¼	3½	3½	3½	4½	5¼	7¼	7¼	
6	Simple Span	Conc + DL [plf]	108	231	424	702	975	2030	2408	151	324	594	983	1366	2841	3372
		Total Load [plf]	436	687	986	1332	1622	2389	2408	378	961	1380	1865	2271	3344	3372
	Continuous Spans	Conc + DL [plf]	206	439	804	1140	1311	1840	2407	288	615	1126	1596	1836	2576	3370
		Total Load [plf]	436	687	931	1140	1311	1840	2407	378	961	1303	1596	1836	2576	3370
	Minimum End Bearing (in)		1½	1½	1¾	2¼	2¾	4	4	1½	1½	1¾	2¼	2¾	4	4
Minimum Intermediate Bearing (in)		3½	3½	3½	4¼	5	7¼	7¼	3½	3½	3½	4¼	5	7¼	7¼	
7	Simple Span	Conc + DL [plf]	67	145	266	441	613	1276	2079	94	203	372	617	858	1786	2911
		Total Load [plf]	320	504	723	978	1191	1847	2079	277	705	1013	1369	1667	2586	2911
	Continuous Spans	Conc + DL [plf]	129	276	505	835	1078	1483	1923	180	386	707	1169	1509	2076	2692
		Total Load [plf]	320	504	723	943	1078	1483	1923	277	705	1013	1320	1509	2076	2692
	Minimum End Bearing (in)		1½	1½	1¾	2	2¼	3¾	4	1½	1½	1¾	2	2¼	3¾	4
Minimum Intermediate Bearing (in)		3½	3½	3½	4	4¾	7	7	3½	3½	3½	4	4¾	7	7	
8	Simple Span	Conc + DL [plf]		90	166	275	383	799	1441	58	126	232	385	536	1119	2018
		Total Load [plf]		385	553	748	910	1413	1829	211	539	774	1047	1275	1978	2560
	Continuous Spans	Conc + DL [plf]	80	172	316	523	727	1243	1600	112	241	442	732	1018	1740	2240
		Total Load [plf]	244	385	553	748	910	1243	1600	211	539	774	1047	1275	1740	2240
	Minimum End Bearing (in)		1½	1½	1¾	1¾	2	3¼	4	1½	1½	1¾	1¾	2	3¼	4
Minimum Intermediate Bearing (in)		3½	3½	3½	3¾	4½	6¾	7¾	3½	3½	3½	3¾	4½	6¾	7¾	
9	Simple Span	Conc + DL [plf]		55	102	170	237	497	897		77	143	238	332	695	1256
		Total Load [plf]		304	436	590	718	1115	1587		425	611	826	1006	1561	2222
	Continuous Spans	Conc + DL [plf]		106	196	325	452	942	1370	69	149	274	455	633	1319	1918
		Total Load [plf]		304	436	590	718	1071	1370	166	425	611	826	1006	1499	1918
	Minimum End Bearing (in)		1½	1½	1¾	1¾	2¾	4	4	1½	1½	1¾	1¾	2¾	4	4
Minimum Intermediate Bearing (in)			3½	3½	3½	4	6¾	7¾	3½	3½	3½	3¾	4	6¾	7¾	
10	Simple Span	Conc + DL [plf]			66	110	154	324	586			92	154	216	453	820
		Total Load [plf]			353	477	581	902	1284			494	668	813	1263	1798
	Continuous Spans	Conc + DL [plf]		69	127	212	295	616	1112		96	178	296	413	863	1557
		Total Load [plf]		245	353	477	581	902	1198		343	494	668	813	1263	1677
	Minimum End Bearing (in)			1½	1¾	1¾	1¾	2½	3½		1½	1¾	1¾	1¾	2½	3½
Minimum Intermediate Bearing (in)			3½	3½	3½	3¾	5¾	7¾		3½	3½	3¾	3¾	5¾	7¾	
11	Simple Span	Conc + DL [plf]				74	104	219	398			61	104	145	307	557
		Total Load [plf]				393	479	744	1060			407	551	671	1042	1484
	Continuous Spans	Conc + DL [plf]			86	143	200	419	757		64	120	201	280	587	1060
		Total Load [plf]			291	393	479	744	1060		283	407	551	671	1042	1484
	Minimum End Bearing (in)				1¾	1¾	1¾	2¼	3¼		1¾	1¾	1¾	1¾	2¼	3¼
Minimum Intermediate Bearing (in)				3½	3½	3½	5¼	7¼		3½	3½	3¾	3¾	5¼	7¼	
12	Simple Span	Conc + DL [plf]				51	72	153	279				71	101	214	390
		Total Load [plf]				330	402	625	890				462	563	874	1246
	Continuous Spans	Conc + DL [plf]			60	100	140	294	533			83	140	196	412	746
		Total Load [plf]			244	330	402	625	890			341	462	563	874	1246
	Minimum End Bearing (in)				1¾	1¾	1¾	2¼	3			1¾	1¾	1¾	2¼	3
Minimum Intermediate Bearing (in)				3½	3½	3½	4¾	6¾			3½	3½	3¾	4¾	6¾	
13	Simple Span	Conc + DL [plf]					51	109	200				50	71	153	281
		Total Load [plf]					342	531	757				393	479	744	1060
	Continuous Spans	Conc + DL [plf]				71	100	212	385			59	100	140	297	539
		Total Load [plf]				281	342	531	757			290	393	479	744	1060
	Minimum End Bearing (in)				1¾	1¾	1¾	2	2¾			1¾	1¾	1¾	2	2¾
Minimum Intermediate Bearing (in)				3½	3½	3½	4¾	6¾			3½	3½	3¾	4¾	6¾	
14	Simple Span	Conc + DL [plf]						80	147					51	112	206
		Total Load [plf]						457	652					412	640	912
	Continuous Spans	Conc + DL [plf]				52	73	156	284				73	103	218	398
		Total Load [plf]				241	294	457	652				338	412	640	912
	Minimum End Bearing (in)				1¾	1¾	1¾	2½	2½				1¾	1¾	1¾	2½
Minimum Intermediate Bearing (in)				3½	3½	3½	4	5¾				3½	3½	4	5¾	

Notes:

- Table values are for beam orientation except for shaded cells. Values in shaded cells are for either plank or beam orientation.
- Span is measured from center to center of supports.
- Table values for Conc + DL (concrete plus dead load) are limited by deflection equal to the lesser of ¼ inch or span/360.
- Table values have been adjusted by $C_M = 0.90$ for unprotected use. Total Load has also been adjusted by $C_D = 1.25$ for construction load duration.
- Table values are for joist spacings of 24 inches on center or less.
- Continuous Spans values are based on the worst case of 2 or 3 equal, continuous spans. Use sizing software or consult a professional engineer when a continuous span is less than half the length of an adjacent span, when loading is not uniform, or when design conditions are otherwise outside the scope of this table.

How To Use These Tables:

- Determine the Conc + DL (concrete plus dead load) and Total Load in pounds per lineal foot (plf) that must be supported by the formwork. Neglect joist weight.
- Select a table that matches the width of the joist under consideration.
- Select a span from the first column.
- Select Simple Span or Continuous Spans from the second column.
- Scan across the table for a pair of Conc + DL and Total Load values that exceed the design requirements identified in Step 1.
- Support across the full width of each joist is required. Verify that the required Minimum End/Intermediate Bearing length can be provided. If not, consider wider joists and return to Step 2.
- Select the joist depth at the top of the column that satisfies the criteria provided by Steps 5 and 6.

2.0E LVL Double Ledger

Allowable Loads and Minimum Bearing Lengths. Deflection limited to L/360 or 1/4" Max.

2.0E LVL ALLOWABLE LOADS AND MINIMUM BEARING LENGTHS—DOUBLE LEDGER

Span [ft]	Condition	DOUBLE 1½" LEDGER					DOUBLE 1¾" LEDGER					DOUBLE 2¼" LEDGER					DOUBLE 2½" LEDGER				
		Depth [in]					Depth [in]					Depth [in]					Depth [in]				
		5½	6½	7¼	9¼	11¼	5½	6½	7¼	9¼	11¼	5½	6½	7¼	9¼	11¼	5½	6½	7¼	9¼	11¼
6	Conc + DL [plf]	509	843	1171	2436	3568	594	983	1366	2841	4162	764	1264	1756	3653	5352	849	1404	1951	4059	5946
	Total Load [plf]	1137	1537	1872	2867	3568	1327	1793	2184	3344	4162	1706	2306	2807	4300	5352	1896	2562	3119	4778	5946
	Min. Bearing [in]	3	3	3	4	5	3	3	3	4	5	3	3	3	4	5	3	3	3	4	5
7	Conc + DL [plf]	319	529	735	1531	2759	372	617	858	1786	3218	479	793	1103	2297	4138	532	881	1225	2552	4598
	Total Load [plf]	835	1128	1374	2131	3033	974	1316	1603	2486	3538	1252	1692	2060	3197	4549	1391	1880	2289	3552	5055
	Min. Bearing [in]	3	3	3	3½	5	3	3	3	3½	5	3	3	3	3½	5	3	3	3	3½	5
8	Conc + DL [plf]	330	460	959	1729		232	385	536	1119	2018	298	495	689	1438	2594	331	550	766	1598	2882
	Total Load [plf]	862	1050	1630	2320		744	1006	1225	1902	2707	957	1294	1575	2445	3480	1063	1437	1751	2717	3867
	Min. Bearing [in]	3	3	3	4-1/4		3	3	3	3	4-1/4	3	3	3	3	4-1/4	3	3	3	3	4-1/4
9	Conc + DL [plf]	204	285	596	1076		238	332	695	1256		306	427	894	1614		204	340	475	993	1794
	Total Load [plf]	680	829	1286	1831		794	967	1501	2136		1021	1243	1930	2747		839	1134	1381	2144	3052
	Min. Bearing [in]	3	3	3	3-3/4		3	3	3	3-3/4		3	3	3	3-3/4		3	3	3	3	3-3/4
10	Conc + DL [plf]			389	703			216	453	820			277	583	1055			220	308	648	1172
	Total Load [plf]			1041	1482			782	1214	1729			1005	1561	2222			917	1117	1734	2469
	Min. Bearing [in]			3	3-1/2			3	3	3-1/2			3	3	3-1/2			3	3	3	3-1/2
11	Conc + DL [plf]			263	477			307	557				395	716				207	438	796	
	Total Load [plf]			859	1223			1002	1427				1288	1834				921	1431	2038	
	Min. Bearing [in]			3	3-1/4			3	3-1/4				3	3-1/4				3	3	3-1/4	
12	Conc + DL [plf]				335			214	390				275	502					306	558	
	Total Load [plf]				1026			841	1197				1081	1539					1201	1710	
	Min. Bearing [in]				3			3	3				3	3					3	3	

Notes:

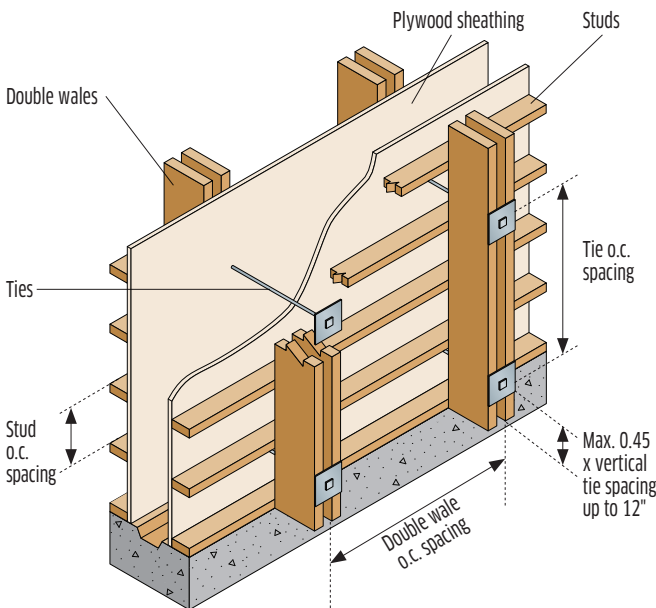
- Table values are for beam orientation.
- Span is measured from center to center of supports.
- Table values for Conc + DL (concrete plus dead load) are limited by deflection equal to the lesser of 1/4 inch or span/360.
- Table values have been adjusted by $C_M = 0.90$ for unprotected use. Total Load has also been adjusted by $C_D = 1.25$ for construction load duration.
- Use sizing software or consult a professional engineer when loading is not uniform or when design conditions are otherwise outside the scope of this table.

How To Use These Tables:

- Determine the Conc + DL (concrete plus dead load) and Total Load in pounds per lineal foot (plf) that must be supported by the formwork. Neglect ledger weight.
- Select a table that matches the ledger under consideration.
- Select a span from the first column.
- Scan across the table for a pair of Conc + DL and Total Load values that exceed the design requirements identified in Step 1. If none are found, choose a wider ledger and return to Step 2.
- Support across the full width of the ledger is required. Verify that the required Min. Bearing length can be provided. If not, consider a wider ledger and return to Step 2.
- Select the ledger depth at the top of the column that satisfies the criteria provided by Steps 4 and 5.

Wall and Column Forms

TYPICAL WALL FORM ASSEMBLY



DOUBLE WALE ASSEMBLY FOR WALL APPLICATIONS

