FORTECO™
LIGHTWEIGHT COMPOSITE FRAMING

COMPOSITE STEEL/CONCRETE LOAD TABLES

3" Concrete Topping f'c = 4000 psi | **Spacing: 24"** | **G60 Galvanized Steel Fy = 50 ksi**

Series:	LCF12-18		LCF12-16		LCF12-14		LCF12-12		LCF14-18		LCF14-16		LCF14-14		LCF14-12	
Depth (in) - Gauge	12" - 18 ga		12" - 16 ga		12" - 14 ga		12" - 12 ga		14" - 18 ga		14" - 16 ga		14" - 14 ga		14" - 12 ga	
Approximate Weight (lb/ft)	5.47		6.84		8.52		11.85		6.12		7.66		9.54		13.27	
Span (ft)	Allowable Superimposed Live Load (Dead Load = 20psf) Superimposed Live Load at L/480 (Deflection @ Allow. load)															
12	817	1004														
13	681	785														
14	573	625	725	755					734	887						
15	486	504	618	610					626	717						
16	414	412	531	499	671	601			538	587	683	711				
17	355	340	458	413	582	498			465	486	594	589				
18	305	283	397	345	508	416	721	547	403	407	518	493	657	595		
19	263	238	346	290	445	351	636	462	352	343	455	417	579	503		
20	227	201	302	246	392	298	564	394	307	291	401	354	512	428	727	562
21	197	171	264	210	346	255	501	337	269	249	354	303	455	367	650	483
22	170	146	232	180	306	219	447	291	236	214	313	261	406	317	583	417
23	146	125	203	155	271	189	400	252	207	184	278	226	362	275	524	363
24	126	108	178	134	240	164	359	219	182	160	247	197	324	239	473	317
25	108	93	156	116	213	143	323	192	160	139	220	172	291	209	428	278
26	92	81	136	101	189	125	290	168	140	122	195	150	261	184	388	245
27	78	70	119	88	168	109	261	148	122	106	174	132	235	162	352	217
28	65	61	103	77	149	96	236	131	107	93	154	116	211	143	320	192
29	53	53	89	67	132	84	213	116	93	82	137	103	190	127	291	171
30	43	L/499	76	59	116	74	192	103	80	72	121	91	171	113	265	153
31	34	L/531	65	51	102	65	173	91	68	64	107	81	153	100	242	136
32	25	L/574	55	45	89	58	156	81	58	56	94	71	137	89	220	122
33			45	39	78	51	140	72	48	L/487	82	63	123	80	201	110
34			37	34	67	45	126	64	39	L/511	72	56	110	71	183	99
35			29	L/489	58	39	113	57	31	L/541	62	50	98	64	167	89
36			21	L/529	49	35	101	51	24	L/580	53	44	87	57	152	80
37					41	30	90	45			45	39	77	51	138	72
38					33	26	80	40			37	35	68	45	126	65
39					26	23	70	36			30	30	59	40	114	59
40					20	20	61	32			23	L/516	51	36	103	53
41							53	28					44	32	93	48
42							46	25					37	28	84	43
43							39	22					30	25	75	39
44							32	19					24	22	67	35
45							26	16							60	31
46							21	14							52	28
47															46	25
48															40	22
49															34	20
50															28	17
51															23	15
52																

Notes:
1. Load values are based on a steel yield strength of 50 ksi and a joist spacing of 24" o.c. For different load conditions, joist spacing or steel material strengths please contact Lightweight Structures, LLC for custom engineering design.
2. This table is to be used as a guide for determining depth and steel sizes for various span and distributed load conditions. Calculations are based on allowable stress design for composite steel-concrete construction. Contact Lightweight Structures, LLC for engineering an pricing for a particular application.

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