



Types H6, HA6, H7.5, HA7.5 LS4.5, LS6, LS7.5



Note:
Fy = 40 ksi

LONG SPAN ROOF DECK DATA BAS E																	
ATTRIBUTE		TYPE H				TYPE LS 4.5				TYPE LS 6.0				TYPE LS 7.5			
		H6, HA6		H7.5, HA 7.5		16	14	12	10	16	14	12	10	16	14	12	10
Note	Gage	18	16	18	16	16	14	12	10	16	14	12	10	16	14	12	10
	Thickness	.0474	.0598	.0474	.0598	.0598	.0747	.1046	.1345	.0598	.0747	.1046	.1345	.0598	.0747	.1046	.1345
	Weight, psf	4.3	5.5	4.8	6.1	4.9	6.1	8.6	11.0	5.5	6.9	9.6	12.4	6.1	7.7	10.7	13.8
1	I _p in. ⁴	6.69	8.76	11.21	14.70	4.84	6.06	8.45	10.82	9.45	11.87	16.55	21.19	15.94	20.04	27.94	35.77
1	I _n in. ⁴	7.41	9.43	12.11	15.56	4.86	6.06	8.45	10.82	9.52	11.87	16.55	21.19	16.08	20.04	27.94	35.77
1	S _p in. ³	1.97	2.61	2.65	3.54	1.94	2.46	3.44	4.38	2.85	3.70	5.18	6.60	3.85	5.07	7.10	9.04
1	S _n in. ³	2.05	2.67	2.64	3.47	2.00	2.49	3.44	4.38	3.00	3.74	5.18	6.60	4.11	5.11	7.10	9.04
2	R2 lbs.	760	1180	720	1130	1230	1860	3470	5540	1170	1780	3360	5390	1120	1720	3270	5260
3	R3 lbs.	860	1340	820	1280	1390	2090	3880	6150	1330	2010	3760	5980	1270	1940	3650	5840
4	R4 lbs.	950	1470	910	1410	1530	2290	4220	6660	1460	2200	4090	6480	1400	2130	3980	6330
5	R5 lbs.	1030	1580	980	1520	1650	2460	4520	7120	1570	2370	4380	6920	1510	2290	4260	6760
6	V, lbs.	3290	6630	2610	5260	6730	9330	12980	16570	6700	10500	17680	22620	5300	10350	20600	28670
7	Max.1 span	25'9"	27'6"	29'3"	31'4"	23'9"	25'1"	27'3"	29'0"	28'1"	29'9"	32'3"	34'0"	32'0"	33'10"	34'0"	34'0"
8	Max. Cant.	9'4"	10'2"	10'10"	11'6"	8'0"	8'10"	9'9"	10'6"	10'1"	10'9"	11'10"	12'10"	11'9"	12'7"	13'0"	13'6"

Types H6, HA6, H7.5, HA7.5 LS4.5, LS6, LS7.5



LONG SPAN ROOF DECK DATA BAS E																	
ATTRIBUTE		TYPE H				TYPE LS 4.5				TYPE LS 6.0				TYPE LS 7.5			
		H6, HA6		H7.5, HA 7.5		16	14	12	10	16	14	12	10	16	14	12	10
Note	Gage	18	16	18	16	16	14	12	10	16	14	12	10	16	14	12	10
	Thickness	.0474	.0598	.0474	.0598	.0598	.0747	.1046	.1345	.0598	.0747	.1046	.1345	.0598	.0747	.1046	.1345
	Weight, psf	4.3	5.5	4.8	6.1	4.9	6.1	8.6	11.0	5.5	6.9	9.6	12.4	6.1	7.7	10.7	13.8
1	I _p in. ⁴	6.69	8.76	11.21	14.70	4.84	6.06	8.45	10.82	9.45	11.87	16.55	21.19	15.94	20.04	27.94	35.77
1	I _n in. ⁴	7.41	9.43	12.11	15.56	4.86	6.06	8.45	10.82	9.52	11.87	16.55	21.19	16.08	20.04	27.94	35.77
1	S _p in. ³	1.97	2.61	2.65	3.54	1.94	2.46	3.44	4.38	2.85	3.70	5.18	6.60	3.85	5.07	7.10	9.04
1	S _n in. ³	2.05	2.67	2.64	3.47	2.00	2.49	3.44	4.38	3.00	3.74	5.18	6.60	4.11	5.11	7.10	9.04
2	R2 lbs.	1160	1800	1110	1730	1880	2840	5310	8470	1790	2730	5140	8240	1720	2640	5000	8040
3	R3 lbs.	1320	2040	1260	1960	2120	3200	5930	9410	2030	3080	5750	9150	1950	2970	5590	8930
4	R4 lbs.	1460	2240	1390	2160	2330	3500	6460	10200	2230	3370	6260	9920	2140	3250	6080	9680
5	R5 lbs.	1570	2420	1500	2330	2520	3770	6920	10890	2410	3630	6710	10590	2310	3500	6520	10340
6	V, lbs.	5010	10080	3970	7990	10230	14190	19720	25180	10190	15970	26880	34380	8060	15740	31310	43580
7	Max.1 span	25'9"	27'6"	29'3"	31'4"	23'9"	25'1"	27'3"	29'0"	28'1"	29'9"	32'3"	34'0"	32'0"	33'10"	34'0"	34'0"
8	Max. Cant.	9'4"	10'2"	10'10"	11'6"	8'0"	8'10"	9'9"	10'6"	10'1"	10'9"	11'10"	12'10"	11'9"	12'7"	13'0"	13'6"

LONG SPAN ROOF DECK DATABASE NOTES:

1. I_p, I_n, S_p and S_n are the section properties per foot of width. These values were calculated using the AISI Specifications. The subscripts denote positive or negative bending.
2. Allowable end reaction per foot of deck width using 2" bearing for ASD and the factored nominal reaction for LRFD.
3. Allowable end reaction per foot of deck width using 3" bearing for ASD and the factored nominal reaction for LRFD.
4. Allowable end reaction per foot of deck width using 4" bearing for ASD and the factored nominal reaction for LRFD.
5. Allowable end reaction per foot of deck width using 5" bearing for ASD and the factored nominal reaction for LRFD.
6. Allowable vertical shear per foot of width and the factored nominal shear for LRFD. Do not confuse this with horizontal diaphragm shear strength. Table values of 2, 3, 4, 5 and 6 have been multiplied by the appropriate factor for the LRFD tables.
7. Maximum recommended single span for roofs are based on SDI and OSHA criteria and production limits.
8. Maximum recommended cantilever span based on SDI criteria. Values are sensitive to adjacent spans as they are controlled by deflection. For this table, adjacent spans are assumed to be at least 2 times greater than the cantilever span. Call if more precise calculation is needed.

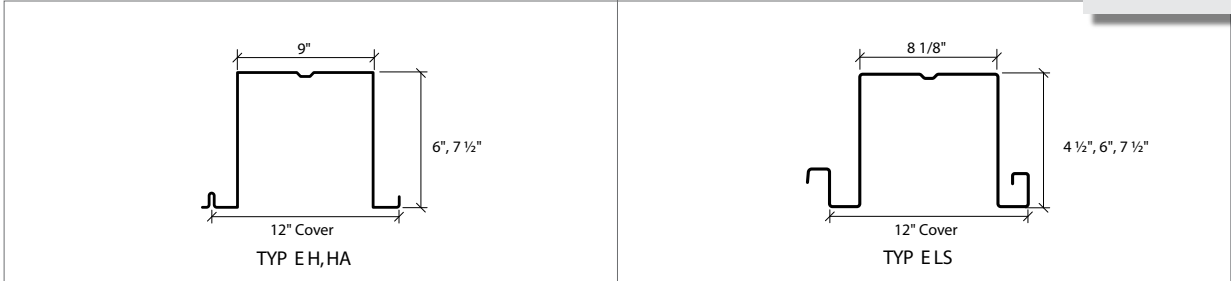
GENERAL NOTES:

- A. All long span roof decks have interlocking side laps. Type HA means the decks are acoustic; acoustic LS is not available. Better side lap connections are obtained by screwing or welding through the flat side laps and this is the recommended type. Button punching often is specified for cosmetic concerns. The type LS side lap is concealed. Both sides of interlocking side lap must be fastened at supports.
- B. Information not provided on this chart may be obtained from Canam Engineering offices.



Note:
Fy = 40 ksi

Long Span Deck



Types H6, HA6, H7.5 and HA7.5

		SINGL E SPAN CO NDITION, (Total Load, psf/ Load Producing L/240											OR 1", psf)				
Type	Gage	18"0"	19"0"	20"0"	21"0"	22"0"	23"0"	24"0"	25"0"	26"0"	27"0"	28"0"	29"0"	30"0"	31"0"	32"0"	
H6	ASD	18	84/75	80/64	76/55	71/45	65/38	60/31	55/26	50/22	47/19						
		16	129/99	116/84	104/72	95/59	86/49	79/41	73/35	67/29	62/25	57/22	53/19	50/16	46/14	43/12	41/11
	LRFD	18	129/75	122/64	116/55	110/45	103/38	94/31	87/26	80/22	74/19						
		16	200/99	183/84	165/72	150/59	137/49	125/41	115/35	106/29	98/25	91/22	84/19	79/16	73/14	69/12	65/11
H7.5	ASD	18	80/126	76/107	72/92	69/76	65/63	63/53	60/44	58/38	55/32	53/28	51/24	50/21	47/18		
		16	126/166	119/141	113/121	108/99	103/82	98/69	94/58	90/49	84/42	78/36	72/31	67/27	63/24	59/21	55/18
	LRFD	18	123/126	117/107	111/92	106/76	101/63	97/53	93/44	89/38	85/32	82/28	79/24	77/21	74/18		
		16	192/166	182/141	173/121	165/99	157/82	150/69	144/58	138/49	133/42	123/36	114/31	107/27	100/24	93/21	88/18

Types LS4.5, LS6 and LS7.5

		SINGL E SPAN CO NDITION, (Total Load, psf/ Load Producing L/240											OR 1", psf)						
Type	Gage	18"0"	19"0"	20"0"	21"0"	22"0"	23"0"	24"0"	25"0"	26"0"	27"0"	28"0"	29"0"	30"0"	31"0"	32"0"	33"0"	34"0"	
LS4.5	ASD	16	96/54	86/46	78/40	70/33	64/27	59/23	54/19										
		14	121/68	109/58	98/50	89/41	81/34	74/28	68/24	63/20	58/17								
		12	170/95	152/81	138/69	125/57	114/47	104/40	96/33	88/28	81/24	76/21	70/18						
	LRFD	16	216/122	194/104	175/89	159/73	145/61	132/51	122/43	112/36	104/31	96/27	89/23	83/20					
		14	152/54	136/46	123/40	111/33	102/27	93/23	85/19										
		12	269/95	241/81	218/69	198/57	180/47	165/40	151/33	139/28	129/24	120/21	111/18						
LS6.0	ASD	16	130/106	123/90	114/78	103/64	94/53	86/44	79/37	73/32	67/27	63/23	58/20	54/18					
		14	183/134	164/114	148/97	134/80	122/67	112/56	103/47	95/40	88/34	81/29	76/25	70/22	66/19				
		12	256/186	230/158	207/136	188/112	171/93	157/78	144/66	133/56	123/48	114/41	106/35	99/31	92/27	86/24	81/21	76/18	
	LRFD	16	326/239	293/203	264/174	239/143	218/119	200/99	183/84	169/71	156/61	145/52	135/45	126/39	117/34	110/30	103/27	97/23	91/21
		14	199/106	188/90	179/78	164/64	149/53	136/44	125/37	116/32	107/27	99/23	92/20	86/18					
		12	289/134	260/114	234/97	213/80	194/67	177/56	163/47	150/40	139/34	129/29	120/25	111/22	104/19				
LS7.5	ASD	16	405/186	364/158	328/136	298/112	271/93	248/78	228/66	210/56	194/48	180/41	167/35	156/31	146/27	137/24	128/21	121/18	
		14	516/239	463/203	418/174	379/143	345/119	316/99	290/84	268/71	247/61	229/52	213/45	199/39	186/34	174/30	163/27	154/23	145/21
		12	124/179	118/153	112/131	107/108	102/89	97/75	93/63	90/54	86/46	83/39	79/34	73/30	68/26	64/23	60/20		
	LRFD	16	191/179	181/153	172/131	164/108	156/89	150/75	143/63	138/54	132/46	127/39	123/34	116/30	108/26	101/23	95/20		
		14	293/226	278/192	264/164	251/135	240/112	230/94	220/79	206/67	190/58	176/50	164/43	153/37	143/32	134/28	125/25	118/22	111/20
		12	555/315	498/267	450/229	408/189	372/157	340/131	312/111	288/94	266/80	247/69	229/60	214/52	200/45	187/40	176/35	165/31	156/27
10	707/403	634/342	573/294	519/242	473/201	433/168	398/142	366/120	339/103	314/88	292/76	272/66	254/58	238/51	224/45	210/40	198/35		

- Yellow shading indicates areas where web crippling controls.
- Areas marked with this symbol exceed SDI recommended maximum spans. (see database)

LONGSPAN LOAD TABLES

