



Tristate Decking, Inc.
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LRFD UNIFORM LOAD TABLES - AISI 2007 STANDARD / 22 Gauge Roof Deck

PITCH	COVER	DEPTH	THICK	WT	TO	DTS	RS	WEB	BOT	ANGLE	FY	UP	COEF	Nt	Nb	Y7
6.0000	36.0000	1.5000	.0295	2.5880	.0000	.0000	.0000	1.3928	1.5110	65.25	33.00	2.00	240.	0.	0.	1.
WIDTH	END BEAR	INT.BEAR	RADIUS	RADIUS/T	LAP	BO	DBS	W2	W20	DW2S	ysb	REXn	RINn	Vn	Wgt (psf)	
50.34	2.00	4.00	.18750	6.356	4	.000	.000	.750	.000	.000	.853	855.	1537.	2807.	1.68	
LIMITING BEARING REACTIONS, LBS/FT OF DECK WIDTH																
Re2	Re3	Re4	Rin3	Rin4	Rin5	Kh	qs	Ta	Wtp	Wwp	Wbp					
855.	985.	1094.	1400.	1537.	1658.	1.000	1.000	.0295	.000	.000	.000					
POSITIVE BENDING																
Ys	Wst	Ispt	Del	Gma	Beta	Kd	Kloc	Stf.Ang								
.0000	.0000	.000000	.000000	.00	.000	.000	.000	.0								
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-TOP	IA-TOP	Fcr	MA (IN-K)					
.1522	.1936	.7861	31.21	100.00	55.56	100.00	100.00	4.000	.000000	.000000	13.857	6.070				
NEGATIVE BENDING																
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-BOT	IA-BOT	Fcr	MA (IN-K)					
.1777	.2036	.6564	24.81	100.00	100.00	83.89	88.49	4.000	.000000	.000000	40.651	6.382				
POSITIVE DEFLECTION																
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-TOP	IA-TOP	Fcr	MD (IN-K)					
.1641	.2105	.7500	19.78	100.00	69.31	100.00	100.00	4.000	.000000	.000000	13.857	4.160				
NEGATIVE DEFLECTION																
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-BOT	IA-BOT	Fcr	MD (IN-K)					
.1855	.2174	.6761	15.66	100.00	100.00	98.17	92.53	4.000	.000000	.000000	40.651	4.297				

UNIFORM LOAD TABLE

TOTAL LOAD FOR:	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5
SINGLE FLEXURE	161.87	133.77	112.41	95.78	82.58	71.94	63.23	56.01	49.96	44.84	40.47	36.70	33.44	30.60
SINGLE BEARING	342.15	311.04	285.12	263.19	244.39	228.10	213.84	201.26	190.08	180.08	171.07	162.93	155.52	148.76
DUAL SPAN FLEX.	170.18	140.64	118.18	100.70	86.82	75.63	66.48	58.88	52.52	47.14	42.54	38.59	35.16	32.17
DUAL FLEX/SHEAR	170.18	140.64	118.18	100.70	86.82	75.63	66.48	58.88	52.52	47.14	42.54	38.59	35.16	32.17
DUAL BEARING	245.97	223.61	204.97	189.21	175.69	163.98	153.73	144.69	136.65	129.46	122.98	117.13	111.80	106.94
TRIPLE SP. FLEX	212.72	175.80	147.72	125.87	108.53	94.54	83.09	73.61	65.65	58.93	53.18	48.24	43.95	40.21
TRIP FLEX/SHEAR	212.72	175.80	147.72	125.87	108.53	94.54	83.09	73.61	65.65	58.93	53.18	48.24	43.95	40.21
TRIPLE BEARING	279.51	254.10	232.93	215.01	199.65	186.34	174.69	164.42	155.28	147.11	139.76	133.10	127.05	121.53
DEFLECTION	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5
5/384 SINGLE LL	86.1	64.7	49.8	39.2	31.4	25.5	21.0	17.5	14.8	12.5	10.8	9.3	8.1	7.1
1/185 DUAL LL	207.3	155.8	120.0	94.4	75.6	61.4	50.6	42.2	35.6	30.2	25.9	22.4	19.5	17.0
.00688 TRIPL LL	162.9	122.4	94.3	74.1	59.4	48.3	39.8	33.2	27.9	23.7	20.4	17.6	15.3	13.4

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LRFD UNIFORM LOAD TABLES - AISI 2007 STANDARD / 20 Gauge Roof Deck

PITCH	COVER	DEPTH	THICK	WT	TO	DTS	RS	WEB	BOT	ANGLE	FY	UP	COEF	Nt	Nb	Y7
6.0000	36.0000	1.5000	.0358	2.5880	.0000	.0000	.0000	1.3860	1.5110	65.40	33.00	2.00	240.	0.	0.	1.
WIDTH	END BEAR	INT.BEAR	RADIUS	RADIUS/T	LAP	BO	DBS	W2	W20	DW2S	ysb	REXn	RINn	Vn	Wgt (psf)	
50.38	2.00	4.00	.18750	5.237	4	.000	.000	.750	.000	.000	.853	1219.	2200.	3394.	2.05	
LIMITING BEARING REACTIONS, LBS/FT OF DECK WIDTH																
Re2	Re3	Re4	Rin3	Rin4	Rin5	Kh	qs	Ta	Wtp	Wwp	Wbp					
1219.	1397.	1547.	2011.	2200.	2367.	1.000	1.000	.0358	.000	.000	.000					
POSITIVE BENDING																
Ys	Wst	Ispt	Del	Gma	Beta	Kd	Kloc	Stf.Ang								
.0000	.0000	.000000	.000000	.00	.000	.000	.000	.0								
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-TOP	IA-TOP	Fcr	MA (IN-K)					
.1954	.2528	.7630	33.01	100.00	65.35	100.00	100.00	4.000	.000000	.000000	20.408	7.927				
NEGATIVE BENDING																
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-BOT	IA-BOT	Fcr	MA (IN-K)					
.2232	.2592	.6746	25.85	100.00	100.00	94.78	91.53	4.000	.000000	.000000	59.867	8.125				
POSITIVE DEFLECTION																
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-TOP	IA-TOP	Fcr	MD (IN-K)					
.2118	.2603	.7219	19.77	100.00	82.27	100.00	100.00	4.000	.000000	.000000	20.408	5.143				
NEGATIVE DEFLECTION																
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-BOT	IA-BOT	Fcr	MD (IN-K)					
.2268	.2658	.6824	15.80	100.00	100.00	100.00	95.80	4.000	.000000	.000000	59.867	5.252				

UNIFORM LOAD TABLE

TOTAL LOAD FOR:	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5		
SINGLE FLEXURE	211.38	174.70	146.79	125.08	107.85	93.95	82.57	73.14	65.24	58.55	52.85	47.93	43.67	39.96		
SINGLE BEARING	487.44	443.13	406.20	374.95	348.17	324.96	304.65	286.73	270.80	256.55	243.72	232.11	221.56	211.93		
DUAL SPAN FLEX.	216.67	179.07	150.47	128.21	110.55	96.30	84.64	74.97	66.87	60.02	54.17	49.13	44.77	40.96		
DUAL FLEX/ SHEAR	216.67	179.07	150.47	128.21	110.55	96.30	84.64	74.97	66.87	60.02	54.17	49.13	44.77	40.96		
DUAL BEARING	351.98	319.98	293.32	270.75	251.42	234.65	219.99	207.05	195.55	185.25	175.99	167.61	159.99	153.04		
TRIPLE SP. FLEX	270.84	223.84	188.08	160.26	138.18	120.37	105.80	93.72	83.59	75.03	67.71	61.42	55.96	51.20		
TRIP FLEX/ SHEAR	270.84	223.84	188.08	160.26	138.18	120.37	105.80	93.72	83.59	75.03	67.71	61.42	55.96	51.20		
TRIPLE BEARING	399.98	363.62	333.32	307.68	285.70	266.65	249.99	235.28	222.21	210.52	199.99	190.47	181.81	173.90		
DEFLECTION	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5		
5/384 SINGLE LL	111.1	83.5	64.3	50.6	40.5	32.9	27.1	22.6	19.1	16.2	13.9	12.0	10.4	9.1		
1/185 DUAL LL	267.6	201.1	154.9	121.8	97.5	79.3	65.3	54.5	45.9	39.0	33.5	28.9	25.1	22.0		
.00688 TRIPL LL	210.3	158.0	121.7	95.7	76.6	62.3	51.3	42.8	36.1	30.7	26.3	22.7	19.7	17.3		

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LRFD UNIFORM LOAD TABLES - AISI 2007 STANDARD / 18 Gauge Roof Deck

PITCH	COVER	DEPTH	THICK	WT	TO	DTS	RS	WEB	BOT	ANGLE	FY	UP	COEF	Nt	Nb	Y7
6.0000	36.0000	1.5000	.0474	2.5880	.0000	.0000	.0000	1.3734	1.5110	65.68	33.00	2.00	240.	0.	0.	1.
WIDTH	END BEAR	INT.BEAR	RADIUS	RADIUS/T	LAP	BO	DBS	W2	W20	DW2S	ysb	REXn	RINn	Vn	Wgt (psf)	
50.45	2.00	4.00	.18750	3.956	4	.000	.000	.750	.000	.000	.853	2034.	3690.	4463.	2.71	
LIMITING BEARING REACTIONS, LBS/FT OF DECK WIDTH																
Re2	Re3	Re4	Rin3	Rin4	Rin5	Kh	qs	Ta	Wtp	Wwp	Wbp					
2034.	2316.	2555.	3389.	3690.	3956.	1.000	1.000	.0474	.000	.000	.000					
POSITIVE BENDING																
Ys	Wst	Ispt	Del	Gma	Beta	Kd	Kloc	Stf.Ang								
.0000	.0000	.00000	.00000	.00	.000	.000	.000	.0								
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-TOP	IA-TOP	Fcr	MA (IN-K)					
.2831	.3437	.7237	33.02	100.00	83.92	100.00	100.00	4.000	.000000	.000000	35.775	10.774				
NEGATIVE BENDING																
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-BOT	IA-BOT	Fcr,	MA (IN-K)					
.3009	.3502	.6881	26.43	100.00	100.00	100.00	96.24	4.000	.000000	.000000	104.950	10.980				
POSITIVE DEFLECTION																
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-TOP	IA-TOP	Fcr	MD (IN-K)					
.3015	.3512	.6891	19.78	100.00	100.00	100.00	100.00	4.000	.000000	.000000	35.775	6.940				
NEGATIVE DEFLECTION																
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-BOT	IA-BOT	Fcr	MD (IN-K)					
.3015	.3512	.6891	15.86	100.00	100.00	100.00	100.00	4.000	.000000	.000000	104.950	6.940				

UNIFORM LOAD TABLE

TOTAL LOAD FOR:	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5
SINGLE FLEXURE	287.32	237.45	199.53	170.01	146.59	127.70	112.23	99.42	88.68	79.59	71.83	65.15	59.36	54.31
SINGLE BEARING	813.43	739.48	677.86	625.72	581.02	542.29	508.39	478.49	451.91	428.12	406.72	387.35	369.74	353.67
DUAL SPAN FLEX.	292.80	241.98	203.33	173.25	149.39	130.13	114.37	101.31	90.37	81.11	73.20	66.39	60.50	55.35
DUAL FLEX/ SHEAR	292.80	241.98	203.33	173.25	149.39	130.13	114.37	101.31	90.37	81.11	73.20	66.39	60.50	55.35
DUAL BEARING	590.43	536.76	492.03	454.18	421.74	393.62	369.02	347.31	328.02	310.75	295.22	281.16	268.38	256.71
TRIPLE SP. FLEX	366.00	302.48	254.16	216.57	186.73	162.67	142.97	126.64	112.96	101.38	91.50	82.99	75.62	69.19
TRIP FLEX/ SHEAR	366.00	302.48	254.16	216.57	186.73	162.67	142.97	126.64	112.96	101.38	91.50	82.99	75.62	69.19
TRIPLE BEARING	670.95	609.95	559.12	516.11	479.25	447.30	419.34	394.67	372.75	353.13	335.47	319.50	304.98	291.72
DEFLECTION	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5
5/384 SINGLE LL	158.1	118.8	91.5	72.0	57.6	46.8	38.6	32.2	27.1	23.0	19.8	17.1	14.8	13.0
1/185 DUAL LL	380.8	286.1	220.4	173.3	138.8	112.8	93.0	77.5	65.3	55.5	47.6	41.1	35.8	31.3
.00688 TRIPL LL	299.2	224.8	173.2	136.2	109.0	88.7	73.0	60.9	51.3	43.6	37.4	32.3	28.1	24.6

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LRFD UNIFORM LOAD TABLES - AISI 2007 STANDARD / 16 Gauge Roof Deck

PITCH	COVER	DEPTH	THICK	WT	TO	DTS	RS	WEB	BOT	ANGLE	FY	UP	COEF	Nt	Nb	Y7
6.0000	36.0000	1.5000	.0598	2.5880	.0000	.0000	.0000	1.3598	1.5110	65.99	33.00	2.00	240.	0.	0.	1.
WIDTH	END BEAR	INT.BEAR	RADIUS	RADIUS/T	LAP	BO	DBS	W2	W20	DW2S	ysb	REXn	RINn	Vn	Wgt (psf)	
50.53	2.00	4.00	.18750	3.135	4	.000	.000	.750	.000	.000	.853	3107.	5658.	5589.	3.43	
LIMITING BEARING REACTIONS, LBS/FT OF DECK WIDTH																
Re2	Re3	Re4	Rin3	Rin4	Rin5	Kh	qs	Ta	Wtp	Wwp	Wbp					
3107.	3520.	3868.	5217.	5658.	6046.	1.000	1.000	.0598	.000	.000	.000					
POSITIVE BENDING																
Ys	Wst	Ispt	Del	Gma	Beta	Kd	Kloc	Stf.Ang								
.0000	.0000	.000000	.000000	.00	.000	.000	.000	.0								
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-TOP	IA-TOP	Fcr	MA (IN-K)					
.3800	.4403	.6968	33.02	100.00	99.16	100.00	100.00	4.000	.000000	.000000	56.941	13.803				
NEGATIVE BENDING																
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-BOT	IA-BOT	Fcr	MA (IN-K)					
.3811	.4408	.6951	26.53	100.00	100.00	100.00	100.00	4.000	.000000	.000000	167.042	13.818				
POSITIVE DEFLECTION																
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-TOP	IA-TOP	Fcr	MD (IN-K)					
.3811	.4408	.6951	19.76	100.00	100.00	100.00	100.00	4.000	.000000	.000000	56.941	8.710				
NEGATIVE DEFLECTION																
IX	SX	Y TEN-FT	EWEB	ETOP	EBOT	ELAP	K	IS-BOT	IA-BOT	Fcr	MD (IN-K)					
.3811	.4408	.6951	15.88	100.00	100.00	100.00	100.00	4.000	.000000	.000000	167.042	8.710				

UNIFORM LOAD TABLE

TOTAL LOAD FOR:	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5
SINGLE FLEXURE	368.09	304.21	255.62	217.80	187.80	163.59	143.78	127.37	113.61	101.96	92.02	83.47	76.05	69.58
SINGLE BEARING	1242.84	1129.86	1035.70	956.03	887.74	828.56	776.78	731.08	690.47	654.13	621.42	591.83	564.93	540.37
DUAL SPAN FLEX.	368.47	304.52	255.88	218.03	188.00	163.77	143.93	127.50	113.73	102.07	92.12	83.55	76.13	69.65
DUAL FLEX/SHEAR	368.47	304.52	255.88	218.03	188.00	163.77	143.93	127.50	113.73	102.07	92.12	83.55	76.13	69.65
DUAL BEARING	905.23	822.94	754.36	696.33	646.59	603.49	565.77	532.49	502.91	476.44	452.62	431.06	411.47	393.58
TRIPLE SP. FLEX	460.59	380.65	319.85	272.54	235.00	204.71	179.92	159.37	142.16	127.59	115.15	104.44	95.16	87.07
TRIP FLEX/SHEAR	460.59	380.65	319.85	272.54	235.00	204.71	179.92	159.37	142.16	127.59	115.15	104.44	95.16	87.07
TRIPLE BEARING	1028.67	935.16	857.23	791.29	734.76	685.78	642.92	605.10	571.48	541.41	514.34	489.84	467.58	447.25
DEFLECTION	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5
5/384 SINGLE LL	199.9	150.2	115.7	91.0	72.8	59.2	48.8	40.7	34.3	29.1	25.0	21.6	18.8	16.4
1/185 DUAL LL	481.5	361.7	278.6	219.2	175.5	142.7	117.5	98.0	82.6	70.2	60.2	52.0	45.2	39.6
.00688 TRIPL LL	378.3	284.2	218.9	172.2	137.9	112.1	92.4	77.0	64.9	55.2	47.3	40.8	35.5	31.1

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