

SECTION PROPERTIES (Per Foot of Width)

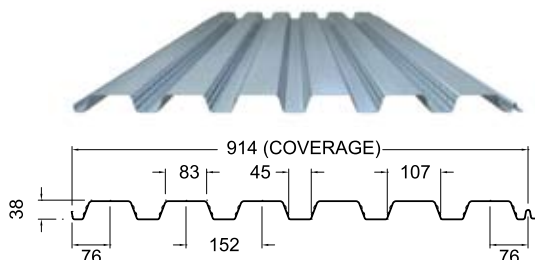
IMPERIAL

THICKNESS		Yield Strength (ksi)	Weight (psf)	Area (in²)	Section Modulus		Deflection Moment of Inertia (in⁴)	Concrete Strength = 3ksi				
					Midspan (in³)	Support (in³)		Overall Slab Depth, D (in)				
Gauge	Base (in)							4.0	4.5	5.0	5.5	6.0
22	0.030	33	1.70	0.482	0.190	0.183	0.164	Slab Weight (psf)				
20	0.036	33	2.03	0.579	0.230	0.232	0.202	40	46	53	59	65
18	0.048	33	2.68	0.772	0.310	0.317	0.276	Concrete Volume (yd³ /100ft²)				
16	0.060	33	3.34	0.964	0.386	0.387	0.342	0.95	1.10	1.25	1.44	1.56

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (psf)

Slab Depth, D (in.)		4.0			4.5			5.0			5.5			6.0		
Base (in.)	Span (ft)	1S	2S	3S	1S	2S	3S	1S	2S	3S	1S	2S	3S	1S	2S	3S
0.030	5.0	382	382	382	443	443	443	504	504	504	566*	566	566	627*	627	627
	5.5	315*	315	315	365*	365	365	416*	416	416	466*	466	466	516*	516	516*
	6.0	263*	263	263	306*	306	306	348*	348*	348*	390*	390*	390*	433*	433*	433*
	6.5	224*	224*	224*	260*	260*	260*	296*	296*	296*	331*	331*	331*	367*	367*	367*
	7.0	192*	192*	192*	223*	223*	223*	254*	254*	254*	285*	285*	285*	316*	316*	316*
	7.5	167*	167*	167*	194*	194*	194*	220*	220*	220*	247*	247*	247*	274*	274*	274*
0.036	8.0	146*	146*	146*	170*	170*	170*	193*	193*	193*	217*	217*	217*	240*	240*	240*
	5.0	386	386	386	448	448	448	510	510	510	572	572	572	634	634	634
	5.5	323	323	323	375	375	375	427	427	427	478	478	478	530*	530	530
	6.0	275	275	275	319*	319	319	363*	363	363	407*	407	407	451*	451	451
	6.5	237*	237	237	275*	275	275	313*	313	313	351*	351*	351*	389*	389*	389*
	7.0	207*	207	207	240*	240	240*	273*	273*	273*	306*	306*	306*	339*	339*	339*
0.048	7.5	182*	182*	182*	211*	211*	211*	241*	241*	241*	270*	270*	270*	299*	299*	299*
	8.0	162*	162*	162*	188*	188*	188*	214*	214*	214*	240*	240*	240*	266*	266*	266*
	5.5	340	340	340	394	394	394	449	449	449	503	503	503	558	558	558
	6.0	297	297	297	344	344	344	392	392	392	440	440	440	487	487	487
	6.5	263	263	263	305	305	305	347	347	347	389	389	389	431*	431	431
	7.0	235	235	235	272	272	272	310*	310	310	348*	348	348	385*	385	385
	7.5	212	212	212	246*	246	246	280*	280	280	314*	314	314	348*	348*	348*
	8.0	193*	193	193	223*	223	223	254*	254*	254	285*	285*	285*	316*	316*	316*
	8.5	176*	176	176	204*	204*	204*	233*	233*	233*	261*	261*	261*	289*	289*	289*
	9.0	162*	162*	162*	188*	188*	188*	214*	214*	214*	240*	240*	240*	266*	266*	266*
0.060	9.5	150*	150*	150*	174*	174*	174*	198*	198*	198*	222*	222*	222*	246*	246*	246*
	10.0	140*	140*	140*	162*	162*	162*	184*	184*	184*	207*	207*	207*	229*	229*	229*
	5.5	340	340	340	394	394	394	449	449	449	503	503	503	558	558	558
	6.0	297	297	297	344	344	344	392	392	392	440	440	440	487	487	487
	6.5	263	263	263	305	305	305	347	347	347	389	389	389	431	431	431
	7.0	235	235	235	272	272	272	310	310	310	348	348	348	385	385	385
	7.5	212	212	212	246	246	246	280	280	280	314	314	314	348*	348	348
	8.0	193	193	193	223	223	223	254*	254	254	285*	285	285	316*	316	316
	8.5	176	176	176	204*	204	204	233*	233	233	261*	261*	261	289*	289*	289*
	9.0	162*	162	162	188*	188	188	214*	214*	214	240*	240*	240*	266*	266*	266*
	9.5	150*	150	150	174*	174*	174*	198*	198*	198*	222*	222*	222*	246*	246*	246*

1. Based on ASTM A 653 Structural steel.
2. * Indicates one row of shoring support is required at mid span in each span during pour and curing of concrete.
3. Slab weight includes steel deck and concrete slab, which have already been accounted for in the load table.
4. See Composite Slab Technical Notes and design example for more information. principles were used in accordance with CSA Standard S136-01 Load table prepared by Dr. R.M.Schuster P.Eng University of Waterloo, Ontario, Canada.



CD-156
COMPOSITE DECK

STANDARD

SECTION PROPERTIES (Per Metre of Width)

METRIC

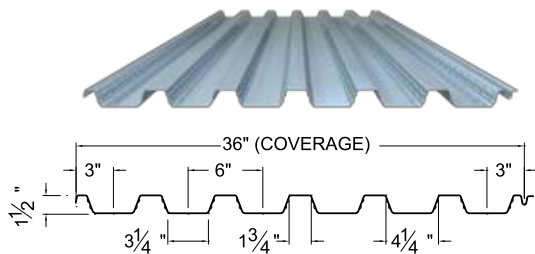
THICKNESS		Yield Strength (MPa)	Weight (kg/m ²)	Area (mm ²)	Section Modulus		Deflection Moment of Inertia (10 ⁶ mm ⁴)	Concrete Strength = 20MPa				
Gauge	Base (mm)				Midspan (10 ³ mm ³)	Support (10 ³ mm ³)		Overall Slab Depth, D (mm)				
								100	110	120	130	140
22	0.762	230	8.3	1021	10.3	10.0	0.247	Slab Weight (kPa)				
20	0.914	230	9.9	1225	12.4	12.6	0.293	1.80	2.03	2.25	2.48	2.70
18	1.219	230	13.1	1633	16.7	17.0	0.382	Concrete Volume (m ³ /10m ²)				
16	1.524	230	16.3	2041	20.8	20.8	0.467	0.76	0.86	0.96	1.06	1.16

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (kPa)

Slab Depth, D (mm)		100			110			120			130			140		
Base (mm)	Span (m)	1S	2S	3S	1S	2S	3S	1S	2S	3S	1S	2S	3S	1S	2S	3S
0.762	1.5	18.5	18.5	18.5	20.9	20.9	20.9	23.3	23.3	23.3	25.7	25.7	25.7	28.1	28.1	28.1
	1.6	16.3	16.3	16.3	18.4	18.4	18.4	20.5	20.5	20.5	22.6*	22.6	22.6	24.7*	24.7	24.7
	1.8	12.8*	12.8	12.8	14.4*	14.4	14.4	16.1*	16.1	16.1	17.7*	17.7	17.7	19.4*	19.4*	19.4*
	2.0	10.3*	10.3	10.3	11.6*	11.6*	11.6*	13.0*	13.0*	13.0*	14.3*	14.3*	14.3*	15.6*	15.6*	15.6*
	2.2	8.5*	8.5*	8.5*	9.6*	9.6*	9.6*	10.7*	10.7*	10.7*	11.8*	11.8*	11.8*	12.9*	12.9*	12.9*
	2.4	7.1*	7.1*	7.1*	8.0*	8.0*	8.0*	8.9*	8.9*	8.9*	9.8*	9.8*	9.8*	10.8*	10.8*	10.8*
0.914	2.6	6.0*	6.0*	6.0*	6.8*	6.8*	6.8*	7.6*	7.6*	7.6*	8.3*	8.3*	8.3*	9.1*	9.1*	9.1*
	1.5	16.1	16.1	16.1	18.2	18.2	18.2	20.3	20.3	20.3	22.4	22.4	22.4	24.5	24.5	24.5
	1.6	14.3	14.3	14.3	16.2	16.2	16.2	18.0	18.0	18.0	19.9	19.9	19.9	21.7	21.7	21.7
	1.8	11.5	11.5	11.5	13.0	13.0	13.0	14.5	14.5	14.5	16.0*	16.0	16.0	17.5*	17.5	17.5
	2.0	9.5*	9.5	9.5	10.7*	10.7	10.7	11.9*	11.9	11.9	13.2*	13.2	13.2	14.4*	14.4	14.4*
	2.2	8.0*	8.0	8.0	9.0*	9.0	9.0*	10.0*	10.0*	10.0*	11.1*	11.1*	11.1*	12.1*	12.1*	12.1*
1.219	2.4	6.8*	6.8*	6.8*	7.7*	7.7*	7.7*	8.6*	8.6*	8.6*	9.5*	9.5*	9.5*	10.4*	10.4*	10.4*
	2.6	5.9*	5.9*	5.9*	6.7*	6.7*	6.7*	7.4*	7.4*	7.4*	8.2*	8.2*	8.2*	9.0*	9.0*	9.0*
	1.5	19.0	19.0	19.0	21.4	21.4	21.4	23.9	23.9	23.9	26.3	26.3	26.3	28.7	28.7	28.7
	1.6	17.1	17.1	17.1	19.3	19.3	19.3	21.5	21.5	21.5	23.7	23.7	23.7	26.0	26.0	26.0
	1.8	14.2	14.2	14.2	16.1	16.1	16.1	17.9	17.9	17.9	19.8	19.8	19.8	21.6	21.6	21.6
	2.0	12.1	12.1	12.1	13.7	13.7	13.7	15.3	15.3	15.3	16.8	16.8	16.8	18.4	18.4	18.4
1.524	2.2	10.5	10.5	10.5	11.9	11.9	11.9	13.2	13.2	13.2	14.6*	14.6	14.6	15.9*	15.9	15.9
	2.4	9.2*	9.2	9.2	10.4*	10.4	10.4	11.6*	11.6	11.6	12.8*	12.8	12.8	14.0*	14.0*	14.0
	2.6	8.2*	8.2	8.2	9.3*	9.3	9.3	10.3*	10.3*	10.3*	11.4*	11.4*	11.4*	12.4*	12.4*	12.4*
	2.8	7.4*	7.4*	7.4*	8.3*	8.3*	8.3*	9.3*	9.3*	9.3*	10.2*	10.2*	10.2*	11.2*	11.2*	11.2*
	3.0	6.7*	6.7*	6.7*	7.5*	7.5*	7.5*	8.4*	8.4*	8.4*	9.3*	9.3*	9.3*	10.1*	10.1*	10.1*
	1.5	19.0	19.0	19.0	21.4	21.4	21.4	23.9	23.9	23.9	26.3	26.3	26.3	28.7	28.7	28.7
1.524	1.6	17.1	17.1	17.1	19.3	19.3	19.3	21.5	21.5	21.5	23.8	23.8	23.8	26.0	26.0	26.0
	1.8	14.3	14.3	14.3	16.1	16.1	16.1	17.9	17.9	17.9	19.8	19.8	19.8	21.6	21.6	21.6
	2.0	12.1	12.1	12.1	13.7	13.7	13.7	15.3	15.3	15.3	16.8	16.8	16.8	18.4	18.4	18.4
	2.2	10.5	10.5	10.5	11.9	11.9	11.9	13.2	13.2	13.2	14.6	14.6	14.6	15.9	15.9	15.9
	2.4	9.2	9.2	9.2	10.4	10.4	10.4	11.6	11.6	11.6	12.8	12.8	12.8	14.0*	14.0	14.0
	2.6	8.2	8.2	8.2	9.3*	9.3	9.3	10.3*	10.3	10.3	11.4*	11.4	11.4	12.4*	12.4	12.4
1.524	2.8	7.4*	7.4	7.4	8.3*	8.3	8.3	9.3*	9.3*	9.3	10.2*	10.2*	10.2	11.2*	11.2*	11.2*
	3.0	6.7*	6.7*	6.7	7.5*	7.5*	7.5*	8.4*	8.4*	8.4*	9.3*	9.3*	9.3*	10.1*	10.1*	10.1*

1. Based on ASTM A 653M Structural steel.
 2. * Indicates one row of shoring support is required at mid span in each span during pour and curing of concrete.
 3. Slab weight includes steel deck and concrete slab, which have already been accounted for in the load table.
 4. See Composite Slab Technical Notes and design example for more information.
- principles were used in accordance with CSA Standard S136-01 Load table prepared by Dr. R.M.Schuster P.Eng University of Waterloo, Ontario, Canada.

STEELWAY
BUILDING SYSTEMS



CD-156
COMPOSITE DECK

INVERTED

SECTION PROPERTIES (Per Foot of Width)

IMPERIAL

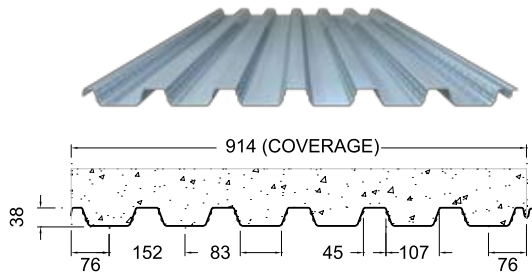
THICKNESS		Yield Strength (ksi)	Weight (psf)	Area (in²)	Section Modulus		Deflection Moment of Inertia (in⁴)	Concrete Strength = 3ksi				
					Midspan (in³)	Support (in³)		Overall Slab Depth, D (in)				
Gauge	Base (in)							4.0	4.5	5.0	5.5	6.0
22	0.030	33	1.70	0.482	0.189	0.183	0.180	Slab Weight (psf)				
20	0.036	33	2.03	0.579	0.237	0.224	0.213	45	51	58	64	70
18	0.048	33	2.68	0.772	0.311	0.302	0.278	Concrete Volume (yd³/100ft²)				
16	0.060	33	3.34	0.964	0.380	0.377	0.339	1.06	1.22	1.37	1.52	1.68

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (psf)

Slab Depth, D (in.)		4.0			4.5			5.0			5.5			6.0		
Base (in.)	Span (ft)	1S	2S	3S	1S	2S	3S	1S	2S	3S	1S	2S	3S	1S	2S	3S
0.030	5.0	434	434	434	498	498	498	563*	563	563	627*	627	627	691*	691	691
	5.5	353*	353	353	405*	405	405	457*	457	457	510*	510	510*	562*	562*	562*
	6.0	292*	292	292	335*	335*	335*	378*	378*	378*	421*	421*	421*	464*	464*	464*
	6.5	244*	244*	244*	280*	280*	280*	317*	317*	317*	353*	353*	353*	389*	389*	389*
	7.0	207*	207*	207*	238*	238*	238*	268*	268*	268*	299*	299*	299*	330*	330*	330*
	7.5	177*	177*	177*	203*	203*	203*	230*	230*	230*	256*	256*	256*	282*	282*	282*
0.036	8.0	153*	153*	153*	176*	176*	176*	198*	198*	198*	221*	221*	221*	244*	244*	244*
	5.0	468	468	468	538	538	538	607	607	607	677	677	677	746	746	746
	5.5	382	382	382	439	439	439	496	496	496	553	553	553	610*	610	610
	6.0	318	318	318	365*	365	365	412*	412	412	459*	459	459	506*	506*	506
	6.5	267*	267	267	307*	307	307	347*	347	347	386*	386*	386*	426*	426*	426*
	7.0	228*	228	228	262*	262*	262*	295*	295*	295*	329*	329*	329*	363*	363*	363*
0.048	7.5	196*	196*	196*	225*	225*	225*	254*	254*	254*	283*	283*	283*	312*	312*	312*
	8.0	170*	170*	170*	195*	195*	195*	221*	221*	221*	246*	246*	246*	271*	271*	271*
	5.5	440	440	440	505	505	505	571	571	571	636	636	636	701	701	701
	6.0	368	368	368	423	423	423	477	477	477	532	532	532	587	587	587
	6.5	312	312	312	359	359	359	405	405	405	452	452	452	498*	498	498
	7.0	268	268	268	308	308	308	348*	348	348	388*	388	388	427*	427	427
0.060	7.5	233*	233	233	267*	267	267	302*	302	302	336*	336*	336	371*	371*	371*
	8.0	203*	203	203	234*	234*	234	264*	264*	264*	294*	294*	294*	324*	324*	324*
	8.5	179*	179*	179	206*	206*	206*	233*	233*	233*	260*	260*	260*	286*	286*	286*
	9.0	159*	159*	159*	183*	183*	183*	207*	207*	207*	230*	230*	230*	254*	254*	254*
	9.5	142*	142*	142*	164*	164*	164*	185*	185*	185*	206*	206*	206*	227*	227*	227*
	10.0	128*	128*	128*	147*	147*	147*	166*	166*	166*	185*	185*	185*	204*	204*	204*
	5.5	439	439	439	504	504	504	570	570	570	635	635	635	701	701	701
	6.0	367	367	367	422	422	422	477	477	477	532	532	532	586	586	586
	6.5	312	312	312	358	358	358	405	405	405	451	451	451	497	497	497
	7.0	268	268	268	307	307	307	347	347	347	387	387	387	427	427	427

1. Based on ASTM A 653 Structural steel.
2. * Indicates one row of shoring support is required at mid span in each span during pour and curing of concrete.
3. Slab weight includes steel deck and concrete slab, which have already been accounted for in the load table.
4. See Composite Slab Technical Notes and design example for more information. principles were used in accordance with CSA Standard S136-01 Load table prepared by Dr. R.M.Schuster P.Eng University of Waterloo, Ontario, Canada.

STEELWAY
BUILDING SYSTEMS



CD-156
COMPOSITE DECK

INVERTED

SECTION PROPERTIES (Per Metre of Width)

METRIC

THICKNESS		Yield Strength (MPa)	Weight (kg/m²)	Area (mm²)	Section Modulus		Deflection Moment of Inertia (10⁶mm⁴)	Concrete Strength = 20MPa				
					Midspan (10³mm³)	Support (10³mm³)		Overall Slab Depth, D (mm)				
100	110							120	130	140		
Slab Weight (kPa)												
Gauge	Base (mm)											
22	0.762	230	8.3	1021	10.3	10.0	0.245					
20	0.914	230	9.9	1225	12.8	12.1	0.291	2.01	2.24	2.47	2.69	2.92
18	1.219	230	13.1	1633	16.7	16.3	0.379	Concrete Volume (m³/10m²)				
16	1.524	230	16.3	2041	20.5	20.3	0.464	0.86	0.96	1.06	1.16	1.26

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (kPa)

Slab Depth, D (mm)		100			110			120			130			140		
Base (mm)	Span (m)	1S	2S	3S	1S	2S	3S	1S	2S	3S	1S	2S	3S	1S	2S	3S
0.762	1.5	21.3	21.3	21.3	23.8	23.8	23.8	26.3	26.3	26.3	28.8	28.8	28.8	31.3*	31.3	31.3
	1.6	18.5	18.5	18.5	20.7	20.7	20.7	22.9*	22.9	22.9	25.1*	25.1	25.1	27.3*	27.3	27.3
	1.8	14.3*	14.3	14.3	16.0*	16.0	16.0	17.7*	17.7	17.7	19.4*	19.4*	19.4*	21.1*	21.1*	21.1*
	2.0	11.3*	11.3*	11.3*	12.7*	12.7*	12.7*	14.0*	14.0*	14.0*	15.3*	15.3*	15.3*	16.7*	16.7*	16.7*
	2.2	9.2*	9.2*	9.2*	10.2*	10.2*	10.2*	11.3*	11.3*	11.3*	12.4*	12.4*	12.4*	13.5*	13.5*	13.5*
	2.4	7.5*	7.5*	7.5*	8.4*	8.4*	8.4*	9.3*	9.3*	9.3*	10.2*	10.2*	10.2*	11.1*	11.1*	11.1*
0.914	2.6	6.2*	6.2*	6.2*	7.0*	7.0*	7.0*	7.7*	7.7*	7.7*	8.5*	8.5*	8.5*	9.2*	9.2*	9.2*
	1.5	22.9	22.9	22.9	25.6	25.6	25.6	28.3	28.3	28.3	31.0	31.0	31.0	33.7	33.7	33.7
	1.6	20.0	20.0	20.0	22.3	22.3	22.3	24.7	24.7	24.7	27.1	27.1	27.1	29.4	29.4	29.4
	1.8	15.5	15.5	15.5	17.4	17.4	17.4	19.2	19.2	19.2	21.1*	21.1	21.1	22.9*	22.9	22.9
	2.0	12.4*	12.4	12.4	13.9*	13.9	13.9	15.3*	15.3	15.3	16.8*	16.8	16.8	18.3*	18.3*	18.3*
	2.2	10.1*	10.1	10.1	11.3*	11.3*	11.3*	12.5*	12.5*	12.5*	13.7*	13.7*	13.7*	14.8*	14.8*	14.8*
1.219	2.4	8.3*	8.3*	8.3*	9.3*	9.3*	9.3*	10.3*	10.3*	10.3*	11.3*	11.3*	11.3*	12.3*	12.3*	12.3*
	2.6	7.0*	7.0*	7.0*	7.8*	7.8*	7.8*	8.6*	8.6*	8.6*	9.5*	9.5*	9.5*	10.3*	10.3*	10.3*
	1.5	26.1	26.1	26.1	29.2	29.2	29.2	32.3	32.3	32.3	35.4	35.4	35.4	38.5	38.5	38.5
	1.6	22.9	22.9	22.9	25.6	25.6	25.6	28.3	28.3	28.3	31.0	31.0	31.0	33.7	33.7	33.7
	1.8	18.0	18.0	18.0	20.1	20.1	20.1	22.2	22.2	22.2	24.2	24.2	24.2	26.5	26.5	26.5
	2.0	14.5	14.5	14.5	16.2	16.2	16.2	17.9	17.9	17.9	19.6	19.6	19.6	21.3	21.3	21.3
1.524	2.2	11.9	11.9	11.9	13.3	13.3	13.3	14.7*	14.7	14.7	16.1*	16.1	16.1	17.5*	17.5	17.5
	2.4	9.9*	9.9	9.9	11.1*	11.1	11.1	12.3*	12.3	12.3	13.5*	13.5	13.5	14.6*	14.6*	14.6*
	2.6	8.4*	8.4*	8.4	9.4*	9.4*	9.4*	10.4*	10.4*	10.4*	11.4*	11.4*	11.4*	12.4*	12.4*	12.4*
	2.8	7.2*	7.2*	7.2*	8.1*	8.1*	8.1*	8.9*	8.9*	8.9*	9.8*	9.8*	9.8*	10.6*	10.6*	10.6*
	3.0	6.3*	6.3*	6.3*	7.0*	7.0*	7.0*	7.7*	7.7*	7.7*	8.5*	8.5*	8.5*	9.2*	9.2*	9.2*
	1.5	26.1	26.1	26.1	29.2	29.2	29.2	32.3	32.3	32.3	35.4	35.4	35.4	38.5	38.5	38.5
1.524	1.6	22.9	22.9	22.9	25.6	25.6	25.6	28.3	28.3	28.3	31.0	31.0	31.0	33.7	33.7	33.7
	1.8	18.0	18.0	18.0	20.1	20.1	20.1	22.2	22.2	22.2	24.4	24.4	24.4	26.5	26.5	26.5
	2.0	14.5	14.5	14.5	16.2	16.2	16.2	17.9	17.9	17.9	19.6	19.6	19.6	21.3	21.3	21.3
	2.2	11.9	11.9	11.9	13.3	13.3	13.3	14.7	14.7	14.7	16.1	16.1	16.1	17.5	17.5	17.5
	2.4	9.9	9.9	9.9	11.1	11.1	11.1	12.3	12.3	12.3	13.5*	13.5	13.5	14.6*	14.6	14.6
	2.6	8.4*	8.4	8.4	9.4*	9.4	9.4	10.4*	10.4	10.4	11.4*	11.4	11.4	12.4*	12.4*	12.4
1.524	2.8	7.2*	7.2	7.2	8.1*	8.1*	8.1	8.9*	8.9*	8.9*	9.8*	9.8*	9.8*	10.6*	10.6*	10.6*
	3.0	6.3*	6.3*	6.3*	7.0*	7.0*	7.0*	7.7*	7.7*	7.7*	8.5*	8.5*	8.5*	9.2*	9.2*	9.2*

1. Based on ASTM A 653M Structural steel.
 2. * Indicates one row of shoring support is required at mid span in each span during pour and curing of concrete.
 3. Slab weight includes steel deck and concrete slab, which have already been accounted for in the load table.
 4. See Composite Slab Technical Notes and design example for more information.
- principles were used in accordance with CSA Standard S136-01 Load table prepared by Dr. R.M.Schuster P.Eng University of Waterloo, Ontario, Canada.

STEELWAY
BUILDING SYSTEMS