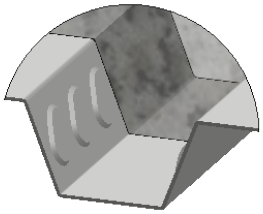
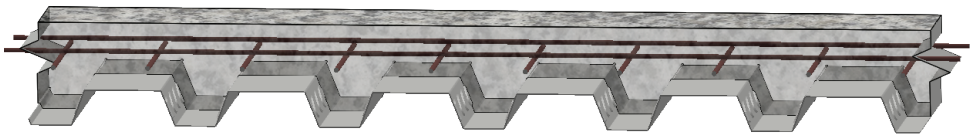
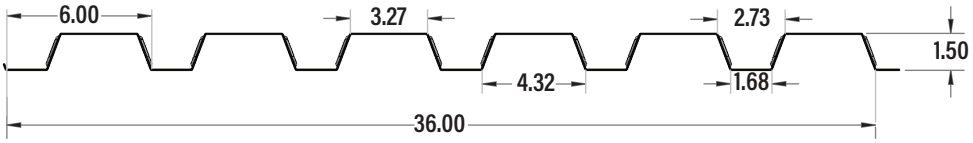
WF-636 FLOOR DECK LAP A







All dimensions are in inches

IMPERIAL

STEEL DECK SECTION PROPERTIES (Per Foot of Width)						
	Base Steel Thickness	Weight	Area	Section Modulus (in^3)		Deflection Inertia
	(in.)	(psf)	(in^2)	Midspan	Support	(in^4)
	0.030	1.68	0.476	0.185	0.189	0.168
	0.036	2.00	0.571	0.226	0.238	0.212
	0.048	2.64	0.759	0.307	0.314	0.286
	0.060	3.28	0.946	0.386	0.388	0.356

COMPOSITE SLAB PROPERTIES (Per Foot of Width)				
Overall Slab Depth, D (in.)				
4.0	4.5	5.0	5.5	6.0
Slab Weight (psf)				
41.6	47.8	54.1	60.3	66.6
Concrete Volume ($yd^3/100ft^2$)				
0.95	1.10	1.25	1.41	1.56

MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOADS (psf)

SLAB DEPTH, D (in.)		4.0			4.5			5.0			5.5			6.0		
BASE (in.)	SPAN (ft)	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
0.030	5'0"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	5'6"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	6'0"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	6'6"	353	353	353	400	400	400	400	400	400	400	400	400	400	400	400
	7'0"	307	307	307	357	357	357	400	400	400	400	400	400	400	400	400
	7'6"	268	268	268	314	314	314	358	358	358	400	400	400	400	400	400
	8'0"	231	231	231	275	275	275	318	318	318	357	357	357	396	396	396
0.036	5'0"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	5'6"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	6'0"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	6'6"	377	377	377	400	400	400	400	400	400	400	400	400	400	400	400
	7'0"	332	332	332	386	386	386	400	400	400	400	400	400	400	400	400
	7'6"	296	296	296	344	344	344	392	392	392	400	400	400	400	400	400
	8'0"	265	265	265	308	308	308	352	352	352	395	395	395	400	400	400
0.048	5'6"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	6'0"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	6'6"	385	385	385	400	400	400	400	400	400	400	400	400	400	400	400
	7'0"	348	348	348	400	400	400	400	400	400	400	400	400	400	400	400
	7'6"	318	318	318	368	368	368	400	400	400	400	400	400	400	400	400
	8'0"	290	290	290	337	337	337	384	384	384	400	400	400	400	400	400
	8'6"	266	266	266	310	310	310	353	353	353	397	397	397	400	400	400
	9'0"	246	246	246	287	287	287	327	327	327	367	367	367	400	400	400
	9'6"	229	229	229	266	266	266	303	303	303	341	341	341	378	378	378
	10'0"	208	208	208	248	248	248	283	283	283	318	318	318	352	352	352
0.060	5'6"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	6'0"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	6'6"	385	385	385	400	400	400	400	400	400	400	400	400	400	400	400
	7'0"	349	349	349	400	400	400	400	400	400	400	400	400	400	400	400
	7'6"	318	318	318	371	371	371	400	400	400	400	400	400	400	400	400
	8'0"	292	292	292	340	340	340	388	388	388	400	400	400	400	400	400
	8'6"	270	270	270	314	314	314	358	358	358	400	400	400	400	400	400
	9'0"	250	250	250	291	291	291	332	332	332	373	373	373	400	400	400
	9'6"	233	233	233	271	271	271	309	309	309	347	347	347	385	385	385
	10'0"	217	217	217	253	253	253	289	289	289	324	324	324	360	360	360

NOTES:
1. One shore support required at midspan in shaded areas.
2. Slab weight includes steel deck and concrete slab, which has been accounted for in load tables.
3. See Composite slab notes and design examples.
4. Prepared by Dr. R.M. Schuster, P.Eng. Distinguished Professor Emeritus, University of Waterloo.

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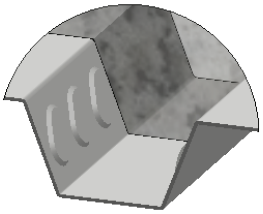

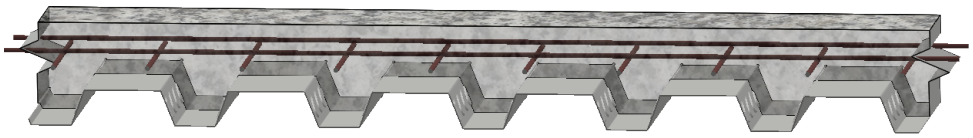

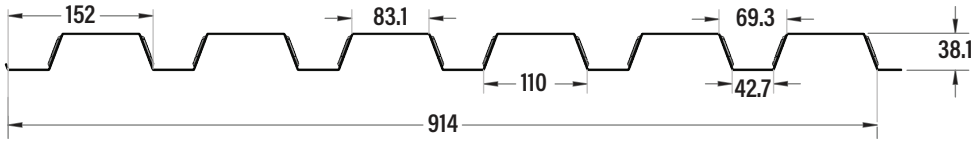

All dimensions are in inches

METRIC

STEEL DECK SECTION PROPERTIES (Per Metre of Width)						COMPOSITE SLAB PROPERTIES (Per Metre of Width)				
Base Steel Thickness (mm)	Mass (kg/m²)	Area (mm²)	Section Modulus (x 10³mm³) Midspan	Section Modulus (x 10³mm³) Support	Deflection Inertia (x10⁶mm⁴)	Overall Slab Depth, D (mm)				
						100	110	120	130	140
						Slab Weight (kPa)				
0.762	8.19	1008	9.25	10.1	0.229	1.88	2.10	2.33	2.55	2.78
0.914	9.75	1207	12.1	12.8	0.290	Concrete Volume (m³/10m²)				
1.22	12.9	1606	16.5	16.9	0.391	0.762	0.862	0.962	1.06	1.16
1.52	16.0	2002	20.8	20.8	0.487					

MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOADS (kPa)

SLAB DEPTH, D (mm)		100			110			120			130			140		
BASE (mm)	SPAN (m)	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
0.762	1.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1.6	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1.8	19.0	19.0	19.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.0	15.6	15.6	15.6	17.6	17.6	17.6	19.6	19.6	19.6	20.0	20.0	20.0	20.0	20.0	20.0
	2.2	13.0	13.0	13.0	14.7	14.7	14.7	16.4	16.4	16.4	18.1	18.1	18.1	19.8	19.8	19.9
	2.4	11.0	11.0	11.0	12.5	12.5	12.5	13.9	13.9	13.9	15.4	15.4	15.4	16.8	16.8	16.8
	2.6	9.4	9.4	9.4	10.7	10.7	10.7	11.9	11.9	11.9	13.2	13.2	13.2	14.4	14.4	14.4
0.914	1.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1.6	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1.8	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.0	18.9	18.9	18.9	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.2	16.2	16.2	16.2	18.3	18.3	18.3	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.4	13.4	13.4	13.4	15.5	15.5	15.5	17.6	17.6	17.6	19.5	19.5	19.5	20.0	20.0	20.0
	2.6	11.2	11.2	11.2	12.9	12.9	12.9	14.7	14.7	14.7	16.5	16.5	16.5	18.3	18.3	18.3
1.22	1.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1.6	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1.8	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.2	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.4	16.9	16.9	16.9	19.8	19.8	19.8	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.6	14.2	14.2	14.2	16.6	16.6	16.6	19.0	19.0	19.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.8	12.0	12.0	12.0	14.1	14.1	14.1	16.2	16.2	16.2	18.2	18.2	18.2	20.0	20.0	20.0
	3.0	9.8	9.8	9.8	12.0	12.0	12.0	13.8	13.8	13.8	15.6	15.6	15.6	17.4	17.4	17.4
1.52	1.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1.6	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1.8	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.2	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.4	19.5	19.5	19.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.6	16.5	16.5	16.5	19.7	19.7	19.7	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2.8	13.2	13.2	13.2	16.7	16.7	16.7	19.4	19.4	19.4	20.0	20.0	20.0	20.0	20.0	20.0
	3.0	10.7	10.7	10.7	14.2	14.2	14.2	16.6	16.6	16.6	18.9	18.9	18.9	20.0	20.0	20.0

NOTES:
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