



ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) - **IMPERIAL UNITS**

0.0476" Deck
0.394" Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
A	METAL DECK THICK (INCH) (Td)	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476
B	METAL DECK YIELD STRENGTH (KSI)(Fy)	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
C	METAL DECK EFF. (Ix) (IN ⁴)/FT	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09
D	METAL DECK EFF. (Sx) (IN ³)/FT	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
E	METAL DECK (Es)(PSI)	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07
F	# REINFORCING STEEL BAR DIA. (INCH)	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394
G	CONCRETE STRENGTH (f'c) (PSI)	4350	4350	4350	4350	4350	4350	4350	4350
H	CONCRETE (Ec) (PSI)	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06
I	A _F (IN ²)/FT	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865
J	I _{x(F)} (IN ⁴)/FT	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18
K	ALLOWABLE FORCE (LBS/FT)	659	659	659	659	659	659	659	659
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333
N	DEFLECTION CRITERIA *	L/480	L/480	L/480	L/480	L/480	L/480	L/480	L/480

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=58.0KSI

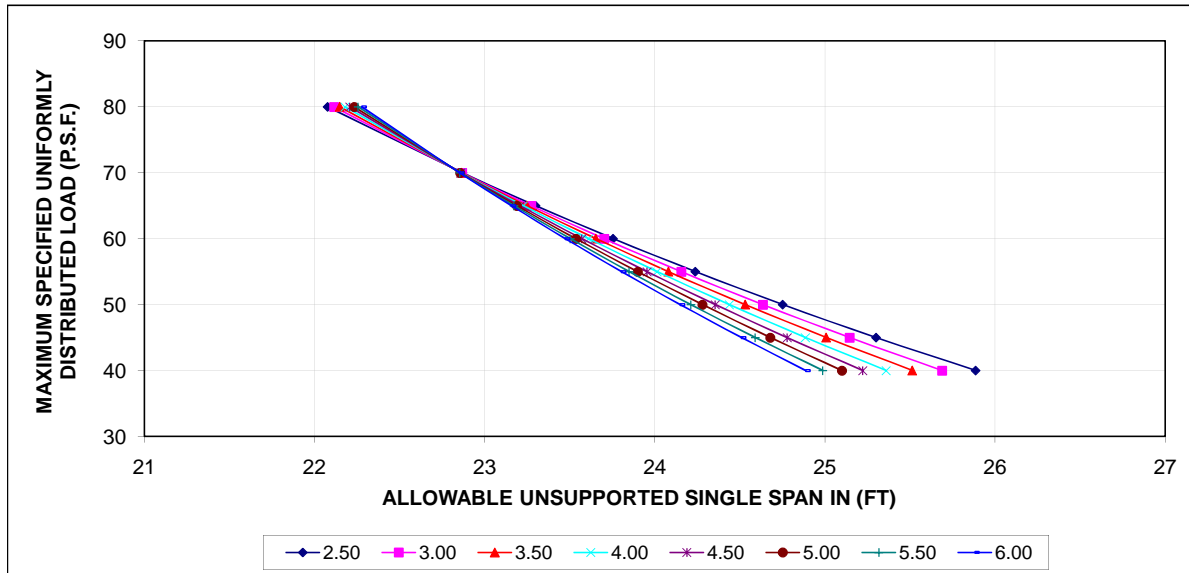
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.18	13.08	12.14	11.32	10.61	9.98	9.43	8.93
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	10.38	9.86	9.78	9.24	8.76	8.33	7.94	7.58
Q	TOTAL DEAD LOAD (NO CONST.).PSF.	53.37	59.62	65.87	72.11	78.36	84.61	90.86	97.10
R	CONCRETE VOLUME. YD ³ /100FT ²	1.240	1.394	1.549	1.703	1.857	2.011	2.166	2.320

C.L. = CONSTRUCTION LOAD (PSF)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (IN)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)							
			40	45	50	55	60	65	70	80
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	25.89	25.30	24.75	24.24	23.76	23.30	22.87	22.08
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	25.69	25.14	24.63	24.15	23.70	23.27	22.87	22.11
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	25.51	25.01	24.53	24.08	23.65	23.25	22.86	22.15
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	25.36	24.89	24.44	24.01	23.61	23.23	22.86	22.18
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	25.22	24.78	24.35	23.95	23.57	23.21	22.86	22.21
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	25.10	24.68	24.28	23.90	23.54	23.19	22.86	22.23
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	24.99	24.59	24.21	23.85	23.50	23.17	22.85	22.26
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	24.89	24.51	24.15	23.80	23.47	23.16	22.85	22.28





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) - IMPERIAL UNITS

0.0476" Deck
0.787" Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
A	METAL DECK THICK (INCH) (Td)	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476
B	METAL DECK YIELD STRENGTH (KSI)(Fy)	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
C	METAL DECK EFF. (Ix) (IN ⁴)/FT	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09
D	METAL DECK EFF. (Sx) (IN ³)/FT	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
E	METAL DECK (Es)(PSI)	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07
F	# REINFORCING STEEL BAR DIA. (INCH)	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787
G	CONCRETE STRENGTH (f'c) (PSI)	4350	4350	4350	4350	4350	4350	4350	4350
H	CONCRETE (Ec) (PSI)	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06
I	A _F (IN ²)/FT	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865
J	I _{x(F)} (IN ⁴)/FT	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18
K	ALLOWABLE FORCE (LBS/FT)	659	659	659	659	659	659	659	659
L	FINAL EFF. CROSS SECT. AREA A _{EO} (IN ²)	0.672	0.672	0.672	0.672	0.672	0.672	0.672	0.672
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333
N	DEFLECTION CRITERIA *	L/480	L/480	L/480	L/480	L/480	L/480	L/480	L/480

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=58.0KSI

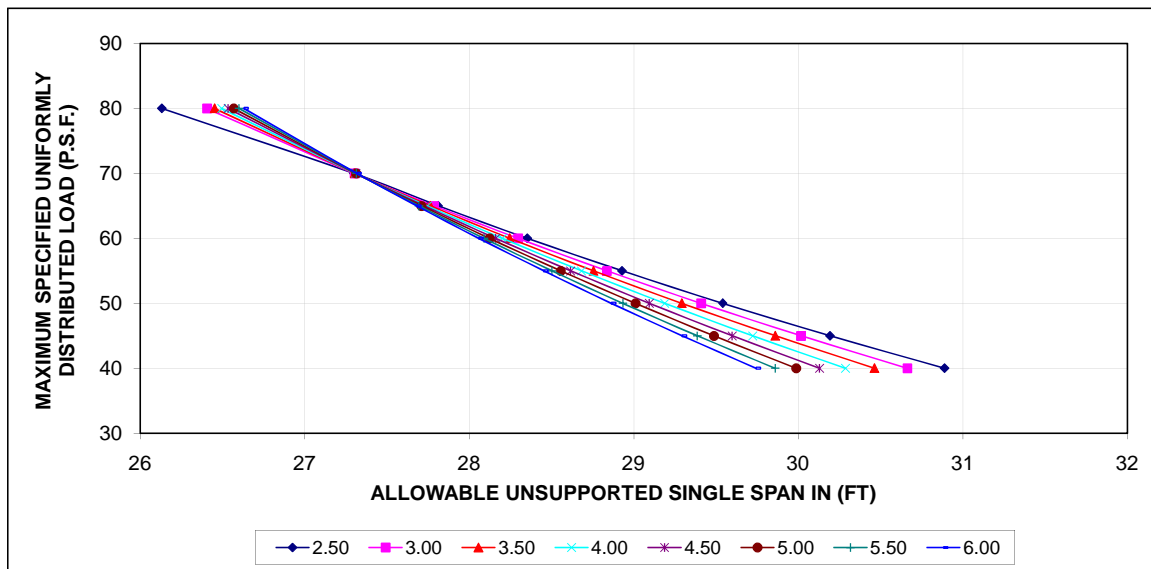
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.13	13.04	12.10	11.29	10.59	9.96	9.41	8.91
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	10.35	9.90	9.75	9.22	8.74	8.31	7.92	7.57
Q	TOTAL DEAD LOAD (NO CONST.).PSF.	53.61	59.86	66.11	72.35	78.60	84.85	91.10	97.34
R	CONCRETE VOLUME. YD ³ /100FT ²	1.231	1.385	1.539	1.693	1.848	2.002	2.156	2.310

C.L. = CONSTRUCTION LOAD (PSF)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (IN)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)							
			40	45	50	55	60	65	70	80
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	30.89	30.19	29.54	28.93	28.35	27.81	27.30	26.13
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	30.66	30.02	29.41	28.84	28.30	27.79	27.30	26.41
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	30.46	29.86	29.29	28.76	28.25	27.76	27.31	26.45
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	30.29	29.72	29.19	28.68	28.20	27.74	27.31	26.50
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	30.13	29.60	29.09	28.62	28.16	27.73	27.31	26.53
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	29.99	29.49	29.01	28.56	28.12	27.71	27.31	26.57
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	29.86	29.39	28.93	28.50	28.09	27.69	27.32	26.60
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	29.74	29.29	28.86	28.45	28.06	27.68	27.32	26.63





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) - **IMPERIAL UNITS**

0.0476" Deck
0.984" Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
A	METAL DECK THICK (INCH) (Td)	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476
B	METAL DECK YIELD STRENGTH (KSI)(Fy)	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
C	METAL DECK EFF. (Ix) (IN ⁴)/FT	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09
D	METAL DECK EFF. (Sx) (IN ³)/FT	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
E	METAL DECK (Es)(PSI)	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07
F	# REINFORCING STEEL BAR DIA. (INCH)	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984
G	CONCRETE STRENGTH (f'c) (PSI)	4350	4350	4350	4350	4350	4350	4350	4350
H	CONCRETE (Ec) (PSI)	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06
I	A _F (IN ²)/FT	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865
J	I _{x(F)} (IN ⁴)/FT	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18
K	ALLOWABLE FORCE (LBS/FT)	659	659	659	659	659	659	659	659
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333
N	DEFLECTION CRITERIA *	L/480	L/480	L/480	L/480	L/480	L/480	L/480	L/480

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=58.0KSI

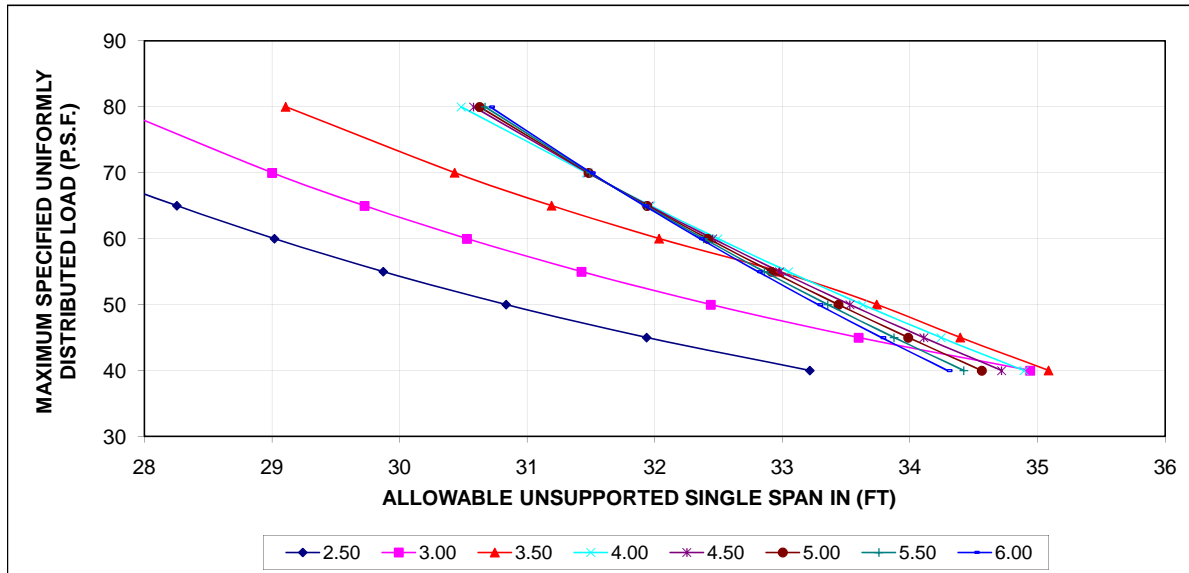
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.10	13.01	12.08	11.27	10.57	9.94	9.39	8.90
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	10.33	9.92	9.74	9.21	8.73	8.30	7.91	7.56
Q	TOTAL DEAD LOAD (NO CONST.) PSF.	53.79	60.04	66.29	72.54	78.78	85.03	91.28	97.53
R	CONCRETE VOLUME. YD ³ /100FT ²	1.224	1.378	1.532	1.686	1.841	1.995	2.149	2.303

C.L. = CONSTRUCTION LOAD (PSF)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (IN)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)							
			40	45	50	55	60	65	70	80
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	33.21	31.94	30.84	29.87	29.02	28.26	27.57	26.37
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	34.94	33.60	32.44	31.43	30.53	29.72	29.00	27.74
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	35.09	34.39	33.74	32.98	32.03	31.19	30.43	29.11
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	34.89	34.24	33.63	33.05	32.49	31.97	31.47	30.48
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	34.72	34.11	33.53	32.98	32.45	31.95	31.48	30.58
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	34.56	33.99	33.44	32.91	32.42	31.94	31.48	30.63
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	34.42	33.88	33.36	32.86	32.38	31.93	31.49	30.67
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	34.29	33.77	33.28	32.81	32.35	31.92	31.50	30.71





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) - **IMPERIAL UNITS**

0.0476" Deck
1.181" Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
A	METAL DECK THICK (INCH) (Td)	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476	0.0476
B	METAL DECK YIELD STRENGTH (KSI)(Fy)	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
C	METAL DECK EFF. (Ix) (IN ⁴)/FT	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09
D	METAL DECK EFF. (Sx) (IN ³)/FT	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
E	METAL DECK (Es)(PSI)	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07
F	# REINFORCING STEEL BAR DIA. (INCH)	1.181	1.181	1.181	1.181	1.181	1.181	1.181	1.181
G	CONCRETE STRENGTH (f'c) (PSI)	4350	4350	4350	4350	4350	4350	4350	4350
H	CONCRETE (Ec) (PSI)	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06
I	A _F (IN ²)/FT	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865
J	I _{x(F)} (IN ⁴)/FT	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18
K	ALLOWABLE FORCE (LBS/FT)	659	659	659	659	659	659	659	659
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333
N	DEFLECTION CRITERIA *	L/480	L/480	L/480	L/480	L/480	L/480	L/480	L/480

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=58.0KSI

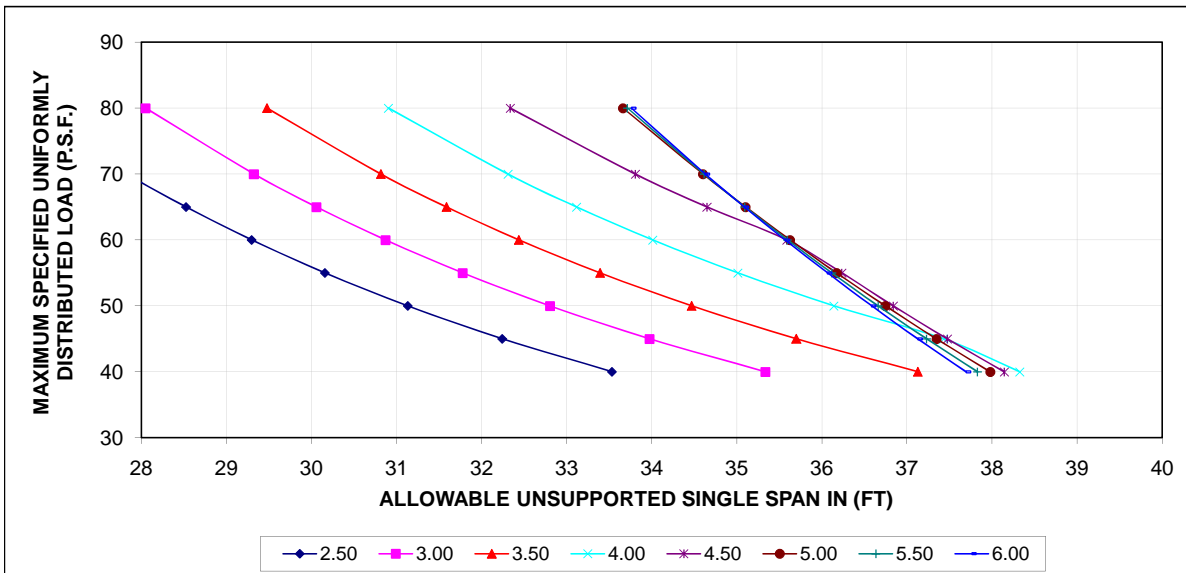
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.06	12.98	12.05	11.25	10.54	9.92	9.37	8.88
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	10.31	9.96	9.72	9.19	8.71	8.29	7.90	7.55
Q	TOTAL DEAD LOAD (NO CONST.)PSF.	54.01	60.26	66.51	72.76	79.00	85.25	91.50	97.75
R	CONCRETE VOLUME. YD ³ /100FT ²	1.215	1.369	1.524	1.678	1.832	1.986	2.141	2.295

C.L. = CONSTRUCTION LOAD (PSF)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (IN)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)							
			40	45	50	55	60	65	70	80
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	33.53	32.24	31.13	30.16	29.30	28.53	27.83	26.62
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	35.33	33.97	32.80	31.78	30.87	30.06	29.32	28.05
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	37.13	35.70	34.47	33.39	32.44	31.59	30.82	29.48
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	38.32	37.43	36.14	35.01	34.01	33.12	32.31	30.90
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	38.14	37.47	36.84	36.23	35.59	34.65	33.81	32.34
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	37.98	37.35	36.74	36.17	35.62	35.10	34.60	33.66
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	37.83	37.23	36.66	36.11	35.59	35.09	34.61	33.71
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	37.69	37.13	36.58	36.06	35.57	35.09	34.63	33.76





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 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) - **IMPERIAL UNITS**

0.0378" Deck
0.394" Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
A	METAL DECK THICK (INCH) (Td)	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378
B	METAL DECK YIELD STRENGTH (KSI)(Fy)	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
C	METAL DECK EFF. (Ix) (IN ⁴)/FT	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
D	METAL DECK EFF. (Sx) (IN ³)/FT	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684
E	METAL DECK (Es)(PSI)	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07
F	# REINFORCING STEEL BAR DIA. (INCH)	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394
G	CONCRETE STRENGTH (f'c) (PSI)	4350	4350	4350	4350	4350	4350	4350	4350
H	CONCRETE (Ec) (PSI)	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06
I	A _F (IN ²)/FT	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687
J	I _{X(F)} (IN ⁴)/FT	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
K	ALLOWABLE FORCE (LBS/FT)	437	437	437	437	437	437	437	437
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=58.0KSI

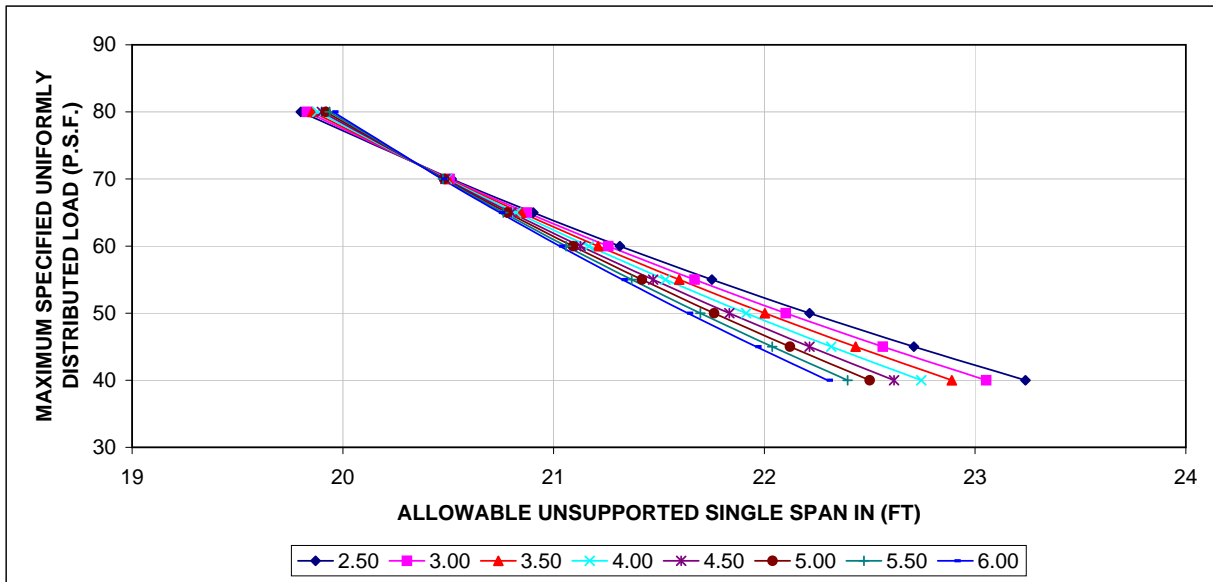
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	9.48	8.74	8.11	7.56	7.08	6.66	6.28	5.95
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	7.38	6.92	6.52	6.16	5.84	5.55	5.29	5.05
Q	TOTAL DEAD LOAD (NO CONST.).PSF.	52.77	59.01	65.26	71.51	77.76	84.00	90.25	96.50
R	CONCRETE VOLUME. YD ³ /100FT ²	1.240	1.394	1.549	1.703	1.857	2.011	2.166	2.320

C.L. = CONSTRUCTION LOAD (PSF)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (IN)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)							
			40	45	50	55	60	65	70	80
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	23.24	22.71	22.21	21.75	21.31	20.90	20.52	19.80
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	23.05	22.56	22.10	21.67	21.26	20.87	20.51	19.83
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	22.89	22.43	22.00	21.60	21.21	20.85	20.50	19.85
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	22.74	22.32	21.91	21.53	21.17	20.82	20.49	19.88
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	22.62	22.21	21.83	21.47	21.13	20.80	20.49	19.90
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	22.50	22.12	21.76	21.42	21.09	20.78	20.48	19.92
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	22.40	22.04	21.70	21.37	21.06	20.76	20.48	19.94
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	22.30	21.96	21.64	21.33	21.03	20.74	20.47	19.95





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) - IMPERIAL UNITS

0.0378" Deck
0.591" Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
A	METAL DECK THICK (INCH) (Td)	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378
B	METAL DECK YIELD STRENGTH (KSI)(Fy)	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
C	METAL DECK EFF. (Ix) (IN ⁴)/FT	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
D	METAL DECK EFF. (Sx) (IN ³)/FT	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684
E	METAL DECK (Es)(PSI)	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07
F	# REINFORCING STEEL BAR DIA. (INCH)	0.591	0.591	0.591	0.591	0.591	0.591	0.591	0.591
G	CONCRETE STRENGTH (f'c) (PSI)	4350	4350	4350	4350	4350	4350	4350	4350
H	CONCRETE (Ec) (PSI)	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06
I	A _F (IN ²)/FT	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687
J	I _{X(F)} (IN ⁴)/FT	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
K	ALLOWABLE FORCE (LBS/FT)	437	437	437	437	437	437	437	437
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=58.0KSI

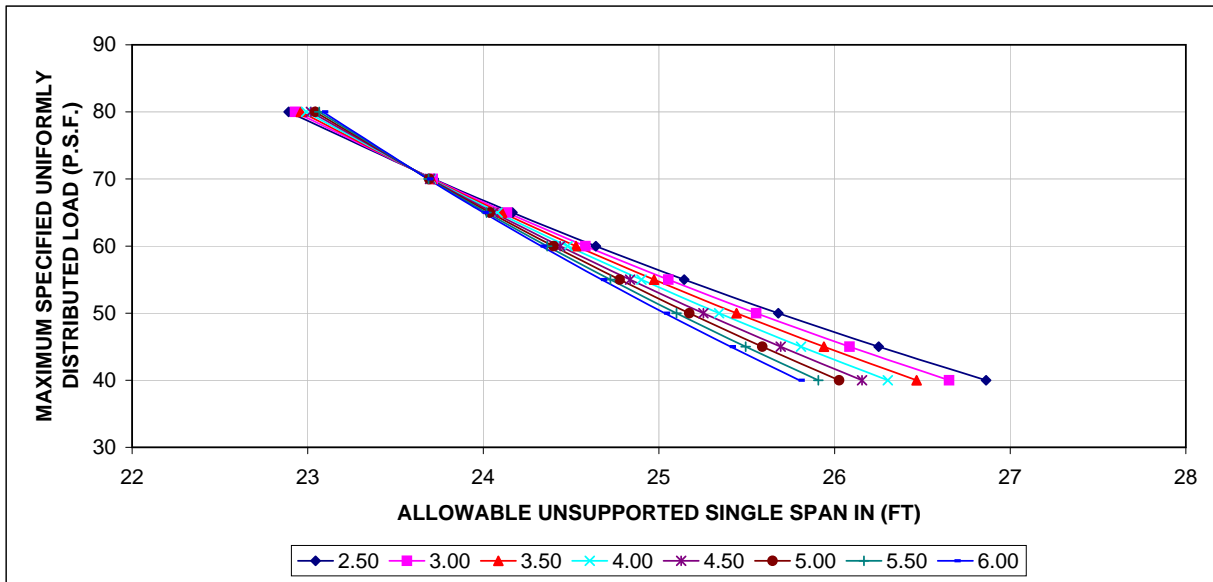
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	9.47	8.73	8.10	7.55	7.07	6.65	6.28	5.95
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	7.37	6.92	6.51	6.15	5.83	5.54	5.28	5.04
Q	TOTAL DEAD LOAD (NO CONST.).PSF.	52.87	59.11	65.36	71.61	77.86	84.10	90.35	96.60
R	CONCRETE VOLUME. YD ³ /100FT ²	1.236	1.390	1.545	1.699	1.853	2.007	2.162	2.316

C.L. = CONSTRUCTION LOAD (PSF)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (IN)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)							
			40	45	50	55	60	65	70	80
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	26.86	26.25	25.68	25.14	24.64	24.17	23.72	22.89
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	26.65	26.09	25.55	25.05	24.58	24.13	23.71	22.93
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	26.47	25.94	25.44	24.97	24.53	24.11	23.71	22.96
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	26.30	25.81	25.34	24.90	24.48	24.08	23.70	22.99
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	26.16	25.69	25.25	24.84	24.44	24.06	23.70	23.02
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	26.03	25.59	25.17	24.78	24.40	24.04	23.69	23.04
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	25.91	25.49	25.10	24.72	24.36	24.02	23.69	23.07
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	25.80	25.41	25.03	24.67	24.33	24.00	23.68	23.09





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) - IMPERIAL UNITS

0.0378" Deck
1.181" Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
A	METAL DECK THICK (INCH) (Td)	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378
B	METAL DECK YIELD STRENGTH (KSI)(Fy)	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
C	METAL DECK EFF. (Ix) (IN ⁴)/FT	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
D	METAL DECK EFF. (Sx) (IN ³)/FT	0.684	0.684	0.684	0.684	0.684	0.684	0.684	0.684
E	METAL DECK (Es)(PSI)	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07	2.95E+07
F	# REINFORCING STEEL BAR DIA. (INCH)	1.181	1.181	1.181	1.181	1.181	1.181	1.181	1.181
G	CONCRETE STRENGTH (f'c) (PSI)	4350	4350	4350	4350	4350	4350	4350	4350
H	CONCRETE (Ec) (PSI)	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06	3.80E+06
I	A _F (IN ²)/FT	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687
J	I _{X(F)} (IN ⁴)/FT	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
K	ALLOWABLE FORCE (LBS/FT)	437	437	437	437	437	437	437	437
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	1.095	1.095	1.095	1.095	1.095	1.095	1.095	1.095
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=58.0KSI

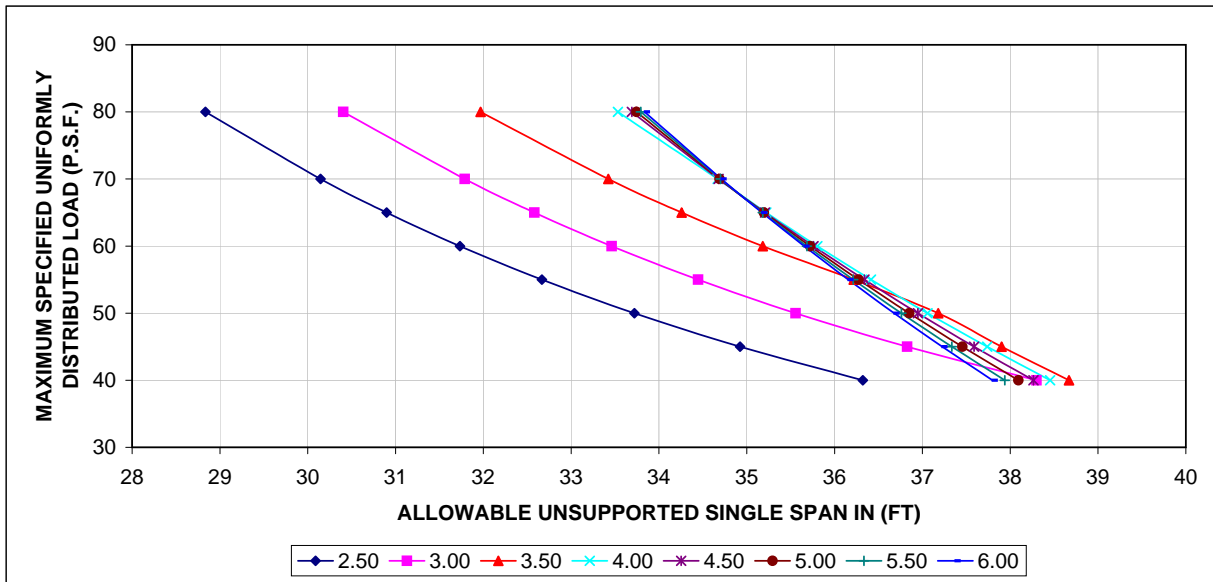
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	9.40	8.67	8.05	7.51	7.03	6.62	6.25	5.92
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	7.33	6.88	6.48	6.13	5.81	5.52	5.26	5.03
Q	TOTAL DEAD LOAD (NO CONST.).PSF.	53.41	59.66	65.90	72.15	78.40	84.65	90.89	97.14
R	CONCRETE VOLUME. YD ³ /100FT ²	1.215	1.369	1.524	1.678	1.832	1.986	2.141	2.295

C.L. = CONSTRUCTION LOAD (PSF)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (IN)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (P.S.F)							
			40	45	50	55	60	65	70	80
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	36.32	34.92	33.72	32.67	31.73	30.90	30.15	28.83
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	38.30	36.83	35.56	34.45	33.46	32.58	31.79	30.41
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	38.67	37.90	37.18	36.22	35.18	34.26	33.42	31.97
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	38.45	37.74	37.06	36.41	35.80	35.22	34.67	33.53
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	38.26	37.59	36.95	36.34	35.76	35.21	34.68	33.69
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	38.09	37.46	36.85	36.27	35.72	35.19	34.69	33.74
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	37.94	37.34	36.76	36.21	35.69	35.18	34.70	33.79
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	37.80	37.23	36.68	36.16	35.65	35.17	34.71	33.84





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) -METRIC UNITS

1.21 mm Deck
10 mm Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
A	METAL DECK THICK (mm) (Td)	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
B	METAL DECK YIELD STRENGTH (KPa)(Fy)	280	280	280	280	280	280	280	280
C	METAL DECK EFF. (Ix) (mm ⁴)/m	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06
D	METAL DECK EFF. (Sx) (mm ³)/m	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04
E	METAL DECK (Es)(KPa)	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08
F	# REINFORCING STEEL BAR DIA. (mm)	10	10	10	10	10	10	10	10
G	CONCRETE STRENGTH (f'c) (KPa)	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04
H	CONCRETE (Ec) (KPa)	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07
I	A _F (mm ²)/m	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917
J	I _{x(f)} (mm ⁴)/m	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06
K	ALLOWABLE FORCE (KN/m)	9.617	9.617	9.617	9.617	9.617	9.617	9.617	9.617
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	301	301	301	301	301	301	301	301
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333
N	DEFLECTION CRITERIA *	L/480	L/480	L/480	L/480	L/480	L/480	L/480	L/480

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=400MPa

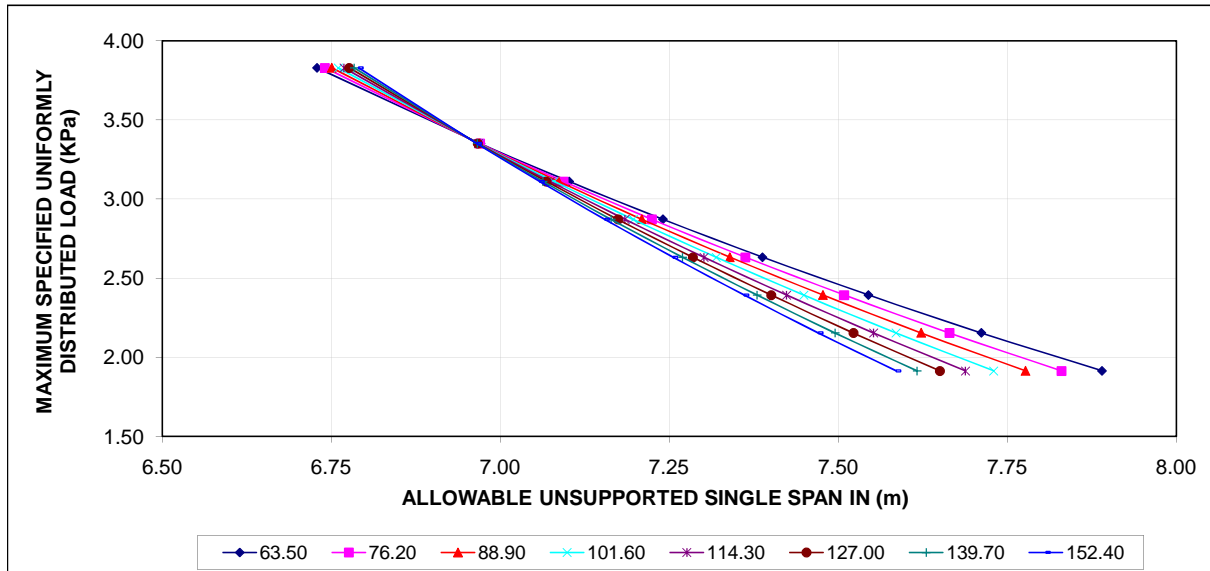
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	4.32	3.99	3.70	3.45	3.23	3.04	2.87	2.72
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	3.16	3.01	2.98	2.82	2.67	2.54	2.42	2.31
Q	TOTAL DEAD LOAD (NO CONST.)KPa.	2.555	2.855	3.154	3.453	3.752	4.051	4.350	4.649
R	CONCRETE VOLUME. m ³ /10m ²	1.021	1.147	1.274	1.401	1.528	1.655	1.782	1.909

C.L. = CONSTRUCTION LOAD (Pa)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (mm)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)							
			1.92	2.15	2.39	2.63	2.87	3.11	3.35	3.83
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	7.89	7.71	7.54	7.39	7.24	7.10	6.97	6.73
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	7.83	7.66	7.51	7.36	7.22	7.09	6.97	6.74
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	7.78	7.62	7.48	7.34	7.21	7.09	6.97	6.75
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	7.73	7.59	7.45	7.32	7.20	7.08	6.97	6.76
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	7.69	7.55	7.42	7.30	7.18	7.07	6.97	6.77
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	7.65	7.52	7.40	7.28	7.17	7.07	6.97	6.78
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	7.62	7.50	7.38	7.27	7.16	7.06	6.97	6.78
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	7.59	7.47	7.36	7.26	7.15	7.06	6.97	6.79





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) -METRIC UNITS

1.21 mm Deck
15 mm Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
A	METAL DECK THICK (mm) (Td)	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
B	METAL DECK YIELD STRENGTH (KPa)(Fy)	280	280	280	280	280	280	280	280
C	METAL DECK EFF. (Ix) (mm ⁴)/m	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06
D	METAL DECK EFF. (Sx) (mm ³)/m	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04
E	METAL DECK (Es)(KPa)	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08
F	# REINFORCING STEEL BAR DIA. (mm)	15	15	15	15	15	15	15	15
G	CONCRETE STRENGTH (f'c) (KPa)	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04
H	CONCRETE (Ec) (KPa)	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07
I	A _F (mm ²)/m	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917
J	I _{x(F)} (mm ⁴)/m	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06
K	ALLOWABLE FORCE (KN/m)	9.617	9.617	9.617	9.617	9.617	9.617	9.617	9.617
L	FINAL EFF. CROSS SECT. AREA A _{EO} (IN ²)	387	387	387	387	387	387	387	387
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333
N	DEFLECTION CRITERIA *	L/480	L/480	L/480	L/480	L/480	L/480	L/480	L/480

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=400MPa

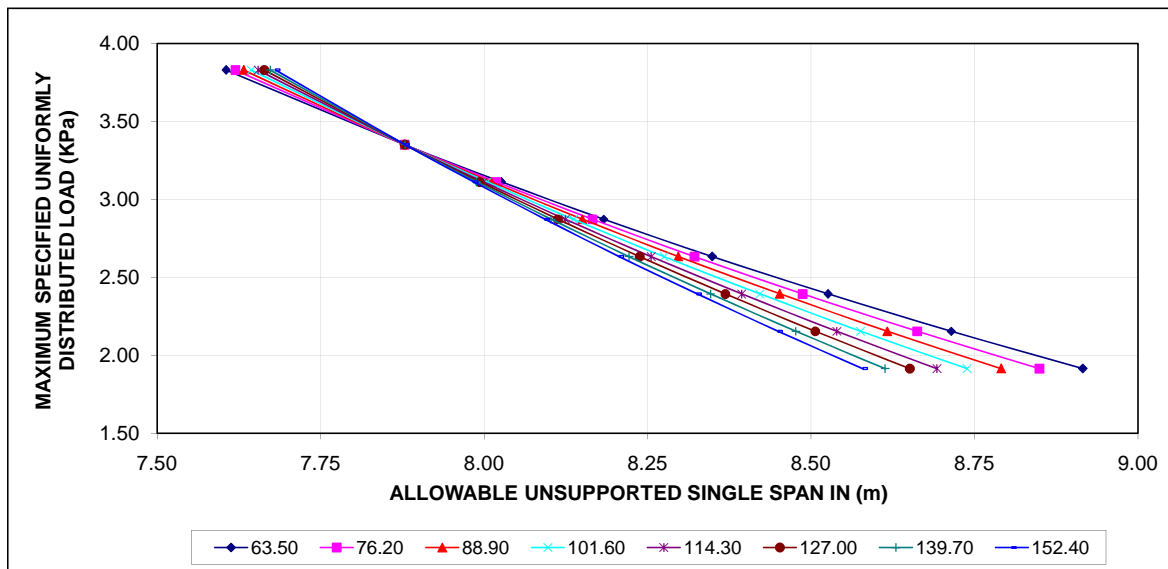
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L. 1.006KPa).m.	4.32	3.98	3.70	3.45	3.23	3.04	2.87	2.72
P	MAX. UNSHORED SPAN (C.L. 2.011KPa).m.	3.16	3.01	2.98	2.81	2.67	2.54	2.42	2.31
Q	TOTAL DEAD LOAD (NO CONST.) KPa.	2.560	2.859	3.158	3.458	3.757	4.056	4.355	4.654
R	CONCRETE VOLUME. m ³ /10m ²	1.017	1.144	1.271	1.398	1.525	1.652	1.779	1.906

C.L. = CONSTRUCTION LOAD (Pa)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (mm)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)							
			1.92	2.15	2.39	2.63	2.87	3.11	3.35	3.83
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	8.92	8.71	8.53	8.35	8.18	8.03	7.88	7.61
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	8.85	8.66	8.49	8.32	8.17	8.02	7.88	7.62
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	8.79	8.62	8.45	8.30	8.15	8.01	7.88	7.63
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	8.74	8.58	8.42	8.28	8.14	8.00	7.88	7.64
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	8.69	8.54	8.39	8.26	8.12	8.00	7.88	7.65
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	8.65	8.51	8.37	8.24	8.11	7.99	7.88	7.66
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	8.61	8.48	8.35	8.22	8.10	7.99	7.88	7.67
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	8.58	8.45	8.33	8.21	8.09	7.98	7.88	7.68





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) -METRIC UNITS

1.21 mm Deck
20 mm Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
A	METAL DECK THICK (mm) (Td)	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
B	METAL DECK YIELD STRENGTH (KPa)(Fy)	280	280	280	280	280	280	280	280
C	METAL DECK EFF. (Ix) (mm ⁴)/m	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06
D	METAL DECK EFF. (Sx) (mm ³)/m	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04
E	METAL DECK (Es)(KPa)	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08
F	# REINFORCING STEEL BAR DIA. (mm)	20	20	20	20	20	20	20	20
G	CONCRETE STRENGTH (f'c) (KPa)	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04
H	CONCRETE (Ec) (KPa)	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07
I	A _F (mm ²)/m	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917
J	I _{x(f)} (mm ⁴)/m	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06
K	ALLOWABLE FORCE (KN/m)	9.617	9.617	9.617	9.617	9.617	9.617	9.617	9.617
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	434	434	434	434	434	434	434	434
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333
N	DEFLECTION CRITERIA *	L/480	L/480	L/480	L/480	L/480	L/480	L/480	L/480

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=400MPa

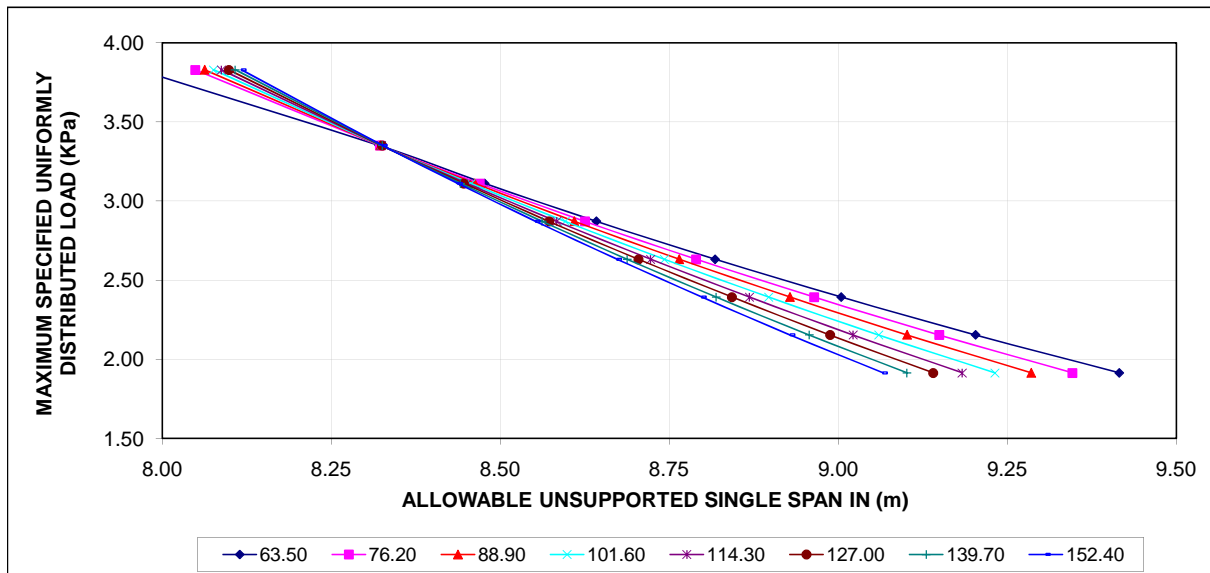
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	4.31	3.97	3.69	3.44	3.23	3.04	2.87	2.72
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	3.16	3.02	2.97	2.81	2.66	2.53	2.41	2.31
Q	TOTAL DEAD LOAD (NO CONST.).KPa.	2.567	2.866	3.165	3.464	3.763	4.063	4.362	4.661
R	CONCRETE VOLUME. m ³ /10m ²	1.013	1.140	1.267	1.394	1.521	1.648	1.775	1.901

C.L. = CONSTRUCTION LOAD (Pa)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (mm)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)							
			1.92	2.15	2.39	2.63	2.87	3.11	3.35	3.83
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	9.42	9.20	9.00	8.82	8.64	8.48	8.32	7.97
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	9.35	9.15	8.96	8.79	8.62	8.47	8.32	8.05
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	9.29	9.10	8.93	8.76	8.61	8.46	8.32	8.06
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	9.23	9.06	8.90	8.74	8.60	8.46	8.32	8.08
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	9.18	9.02	8.87	8.72	8.58	8.45	8.32	8.09
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	9.14	8.99	8.84	8.70	8.57	8.45	8.33	8.10
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	9.10	8.96	8.82	8.69	8.56	8.44	8.33	8.11
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	9.07	8.93	8.80	8.67	8.55	8.44	8.33	8.12





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) -METRIC UNITS

1.21 mm Deck
25 mm Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
A	METAL DECK THICK (mm) (Td)	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
B	METAL DECK YIELD STRENGTH (KPa)(Fy)	280	280	280	280	280	280	280	280
C	METAL DECK EFF. (I _x) (mm ⁴)/m	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06
D	METAL DECK EFF. (S _x) (mm ³)/m	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04
E	METAL DECK (E _s)(KPa)	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08
F	# REINFORCING STEEL BAR DIA. (mm)	25	25	25	25	25	25	25	25
G	CONCRETE STRENGTH (f'c) (KPa)	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04
H	CONCRETE (E _c) (KPa)	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07
I	A _F (mm ²)/m	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917
J	I _{x(p)} (mm ⁴)/m	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06
K	ALLOWABLE FORCE (KN/m)	9.617	9.617	9.617	9.617	9.617	9.617	9.617	9.617
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	581	581	581	581	581	581	581	581
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333
N	DEFLECTION CRITERIA *	L/480	L/480	L/480	L/480	L/480	L/480	L/480	L/480

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=400MPa

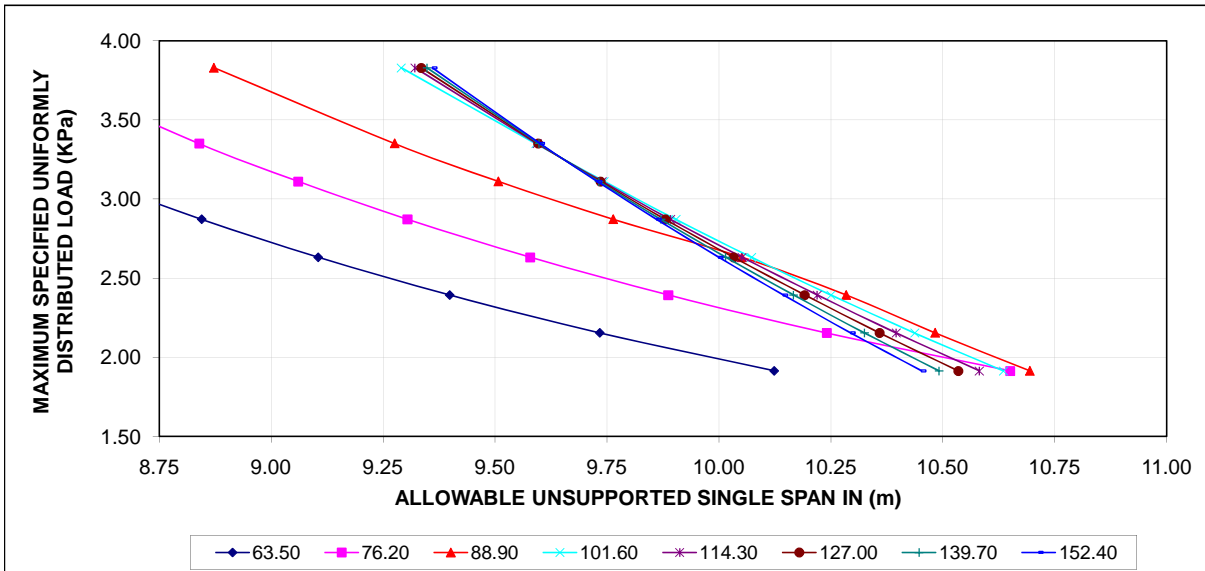
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	4.30	3.97	3.68	3.44	3.22	3.03	2.86	2.71
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	3.15	3.03	2.97	2.81	2.66	2.53	2.41	2.30
Q	TOTAL DEAD LOAD (NO CONST.)KPa.	2.576	2.875	3.174	3.473	3.772	4.071	4.370	4.670
R	CONCRETE VOLUME. m ³ /10m ²	1.007	1.134	1.261	1.388	1.515	1.642	1.769	1.896

C.L. = CONSTRUCTION LOAD (Pa)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (mm)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)							
			1.92	2.15	2.39	2.63	2.87	3.11	3.35	3.83
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	10.12	9.73	9.40	9.10	8.84	8.61	8.40	8.04
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	10.65	10.24	9.89	9.58	9.30	9.06	8.84	8.45
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	10.69	10.48	10.28	10.05	9.76	9.51	9.28	8.87
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	10.63	10.44	10.25	10.07	9.90	9.74	9.59	9.29
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	10.58	10.40	10.22	10.05	9.89	9.74	9.59	9.32
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	10.53	10.36	10.19	10.03	9.88	9.74	9.60	9.34
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	10.49	10.33	10.17	10.02	9.87	9.73	9.60	9.35
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	10.45	10.29	10.14	10.00	9.86	9.73	9.60	9.36





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) -METRIC UNITS

1.21 mm Deck
30 mm Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
A	METAL DECK THICK (mm) (Td)	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
B	METAL DECK YIELD STRENGTH (KPa)(Fy)	280	280	280	280	280	280	280	280
C	METAL DECK EFF. (Ix) (mm ⁴)/m	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06	6.95E+06
D	METAL DECK EFF. (Sx) (mm ³)/m	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04	6.18E+04
E	METAL DECK (Es)(KPa)	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08
F	# REINFORCING STEEL BAR DIA. (mm)	30	30	30	30	30	30	30	30
G	CONCRETE STRENGTH (f'c) (KPa)	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04
H	CONCRETE (Ec) (KPa)	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07
I	A _F (mm ²)/m	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917	1830.917
J	I _{x(f)} (mm ⁴)/m	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06	9.80E+06
K	ALLOWABLE FORCE (KN/m)	9.617	9.617	9.617	9.617	9.617	9.617	9.617	9.617
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	706	706	706	706	706	706	706	706
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.333	1.333	1.333	1.333	1.333	1.333	1.333	1.333
N	DEFLECTION CRITERIA *	L/480	L/480	L/480	L/480	L/480	L/480	L/480	L/480

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=400MPa

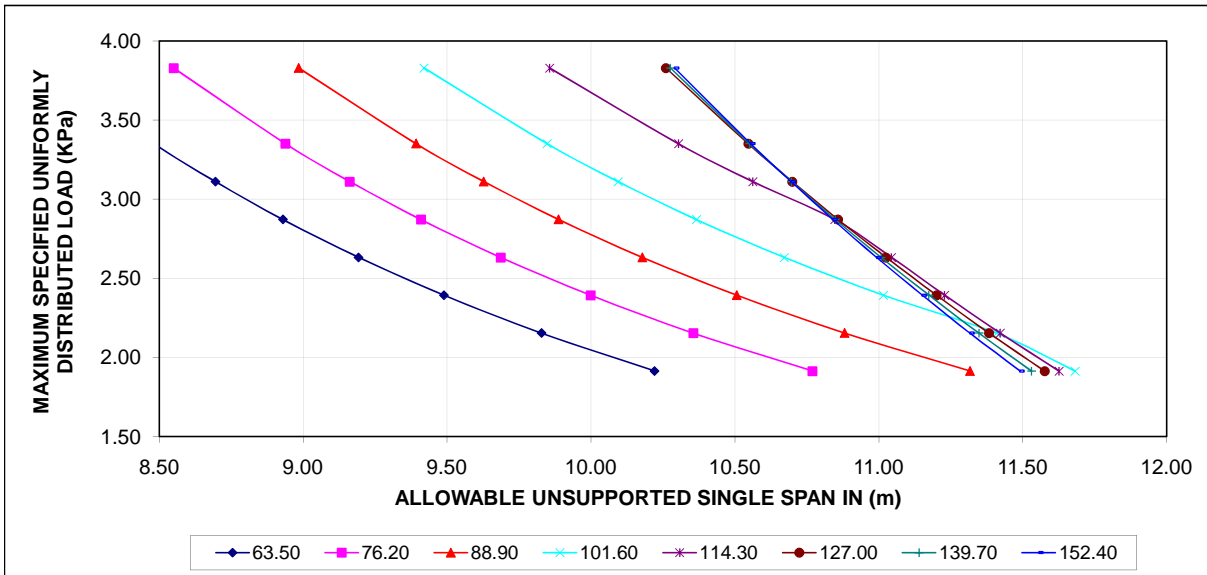
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	4.28	3.95	3.67	3.43	3.21	3.02	2.86	2.71
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	3.14	3.04	2.96	2.80	2.66	2.53	2.41	2.30
Q	TOTAL DEAD LOAD (NO CONST.),KPa.	2.586	2.885	3.184	3.484	3.783	4.082	4.381	4.680
R	CONCRETE VOLUME. m ³ /10m ²	1.000	1.127	1.254	1.381	1.508	1.635	1.762	1.889

C.L. = CONSTRUCTION LOAD (Pa)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (mm)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)							
			1.92	2.15	2.39	2.63	2.87	3.11	3.35	3.83
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	10.22	9.83	9.49	9.19	8.93	8.70	8.48	8.11
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	10.77	10.35	10.00	9.69	9.41	9.16	8.94	8.55
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	11.32	10.88	10.51	10.18	9.89	9.63	9.39	8.98
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	11.68	11.41	11.02	10.67	10.37	10.09	9.85	9.42
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	11.63	11.42	11.23	11.04	10.85	10.56	10.30	9.86
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	11.58	11.38	11.20	11.03	10.86	10.70	10.55	10.26
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	11.53	11.35	11.17	11.01	10.85	10.70	10.55	10.28
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	11.49	11.32	11.15	10.99	10.84	10.69	10.55	10.29





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) -METRIC UNITS

0.96mm Deck
10mm Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
A	METAL DECK THICK (mm) (Td)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
B	METAL DECK YIELD STRENGTH (KPa)(Fy)	280	280	280	280	280	280	280	280
C	METAL DECK EFF. (Ix) (mm ⁴ /m)	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06
D	METAL DECK EFF. (Sx) (mm ³ /m)	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04
E	METAL DECK (Es)(KPa)	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08
F	# REINFORCING STEEL BAR DIA. (mm)	10	10	10	10	10	10	10	10
G	CONCRETE STRENGTH (f'c) (KPa)	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04
H	CONCRETE (Ec) (KPa)	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07
I	A _F (mm ² /m)	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150
J	I _{x(F)} (mm ⁴ /m)	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06
K	ALLOWABLE FORCE (KN/m)	6.378	6.378	6.378	6.378	6.378	6.378	6.378	6.378
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	240	240	240	240	240	240	240	240
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=400MPa

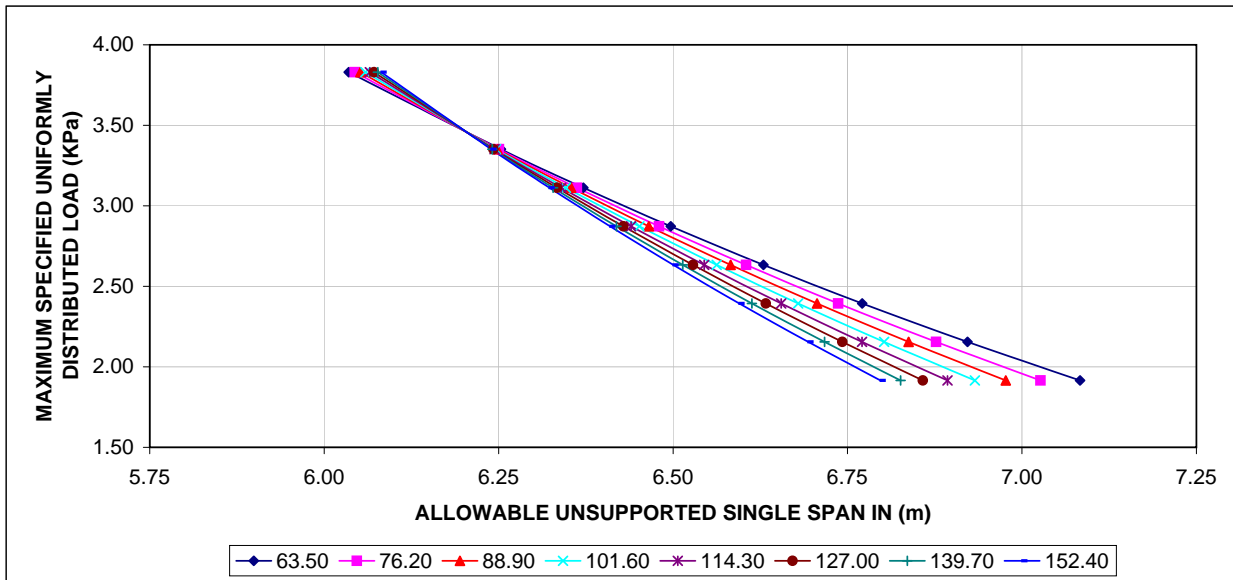
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	2.89	2.66	2.47	2.30	2.16	2.03	1.92	1.81
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.25	2.11	1.99	1.88	1.78	1.69	1.61	1.54
Q	TOTAL DEAD LOAD (NO CONST.)KPa.	2.526	2.826	3.125	3.424	3.723	4.022	4.321	4.620
R	CONCRETE VOLUME. m ³ /10m ²	1.021	1.147	1.274	1.401	1.528	1.655	1.782	1.909

C.L. = CONSTRUCTION LOAD (Pa)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (mm)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)							
			1.92	2.15	2.39	2.63	2.87	3.11	3.35	3.83
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	7.08	6.92	6.77	6.63	6.50	6.37	6.25	6.04
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	7.03	6.88	6.74	6.60	6.48	6.36	6.25	6.04
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	6.98	6.84	6.71	6.58	6.47	6.35	6.25	6.05
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	6.93	6.80	6.68	6.56	6.45	6.35	6.25	6.06
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	6.89	6.77	6.65	6.54	6.44	6.34	6.24	6.07
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	6.86	6.74	6.63	6.53	6.43	6.33	6.24	6.07
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	6.83	6.72	6.61	6.51	6.42	6.33	6.24	6.08
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	6.80	6.69	6.59	6.50	6.41	6.32	6.24	6.08





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) -METRIC UNITS

0.96mm Deck
15mm Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
A	METAL DECK THICK (mm) (Td)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
B	METAL DECK YIELD STRENGTH (KPa)(Fy)	280	280	280	280	280	280	280	280
C	METAL DECK EFF. (Ix) (mm ⁴ /m)	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06
D	METAL DECK EFF. (Sx) (mm ³ /m)	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04
E	METAL DECK (Es)(KPa)	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08
F	# REINFORCING STEEL BAR DIA. (mm)	15	15	15	15	15	15	15	15
G	CONCRETE STRENGTH (f'c) (KPa)	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04
H	CONCRETE (Ec) (KPa)	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07
I	A _F (mm ² /m)	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150
J	I _{x(F)} (mm ⁴ /m)	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06
K	ALLOWABLE FORCE (KN/m)	6.378	6.378	6.378	6.378	6.378	6.378	6.378	6.378
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	323	323	323	323	323	323	323	323
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=400MPa

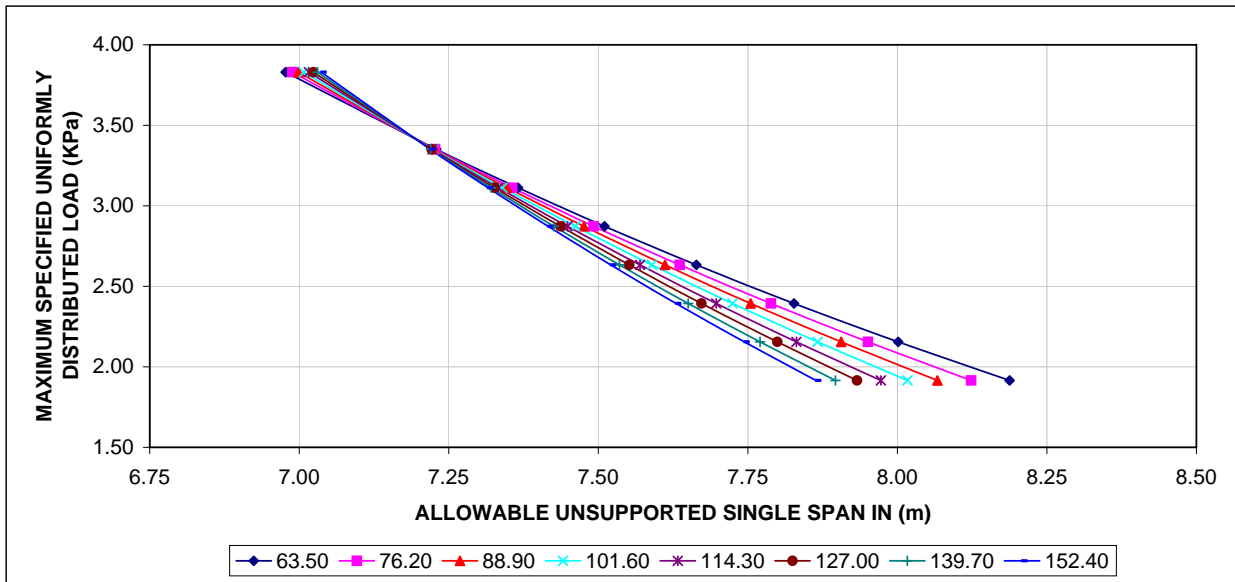
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	2.89	2.66	2.47	2.30	2.16	2.03	1.91	1.81
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.25	2.11	1.99	1.88	1.78	1.69	1.61	1.54
Q	TOTAL DEAD LOAD (NO CONST.)KPa.	2.531	2.830	3.129	3.429	3.728	4.027	4.326	4.625
R	CONCRETE VOLUME. m ³ /10m ²	1.017	1.144	1.271	1.398	1.525	1.652	1.779	1.906

C.L. = CONSTRUCTION LOAD (Pa)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (mm)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)							
			1.92	2.15	2.39	2.63	2.87	3.11	3.35	3.83
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	8.19	8.00	7.83	7.66	7.51	7.37	7.23	6.98
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	8.12	7.95	7.79	7.64	7.49	7.36	7.23	6.99
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	8.07	7.91	7.75	7.61	7.48	7.35	7.23	7.00
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	8.02	7.87	7.72	7.59	7.46	7.34	7.22	7.01
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	7.97	7.83	7.70	7.57	7.45	7.33	7.22	7.02
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	7.93	7.80	7.67	7.55	7.44	7.33	7.22	7.02
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	7.90	7.77	7.65	7.54	7.43	7.32	7.22	7.03
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	7.86	7.74	7.63	7.52	7.42	7.32	7.22	7.04





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) -METRIC UNITS

0.96mm Deck
20mm Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
A	METAL DECK THICK (mm) (Td)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
B	METAL DECK YIELD STRENGTH (KPa)(Fy)	280	280	280	280	280	280	280	280
C	METAL DECK EFF. (Ix) (mm ⁴)/m	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06
D	METAL DECK EFF. (Sx) (mm ³)/m	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04
E	METAL DECK (Es)(KPa)	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08
F	# REINFORCING STEEL BAR DIA. (mm)	20	20	20	20	20	20	20	20
G	CONCRETE STRENGTH (f'c) (KPa)	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04
H	CONCRETE (Ec) (KPa)	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07
I	A _F (mm ²)/m	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150
J	I _{x(F)} (mm ⁴)/m	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06
K	ALLOWABLE FORCE (KN/m)	6.378	6.378	6.378	6.378	6.378	6.378	6.378	6.378
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	361	361	361	361	361	361	361	361
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)

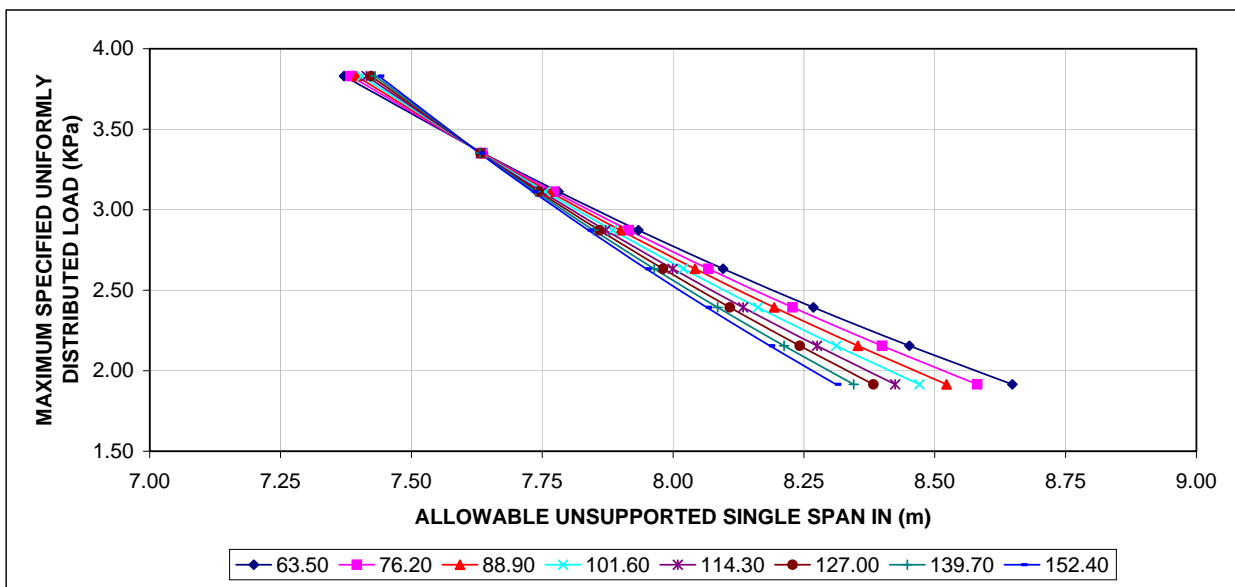
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	2.88	2.66	2.46	2.30	2.15	2.02	1.91	1.81
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.24	2.10	1.98	1.87	1.78	1.69	1.61	1.54
Q	TOTAL DEAD LOAD (NO CONST.).KPa.	2.538	2.837	3.136	3.435	3.734	4.034	4.333	4.632
R	CONCRETE VOLUME. m ³ /10m ²	1.013	1.140	1.267	1.394	1.521	1.648	1.775	1.901

C.L. = CONSTRUCTION LOAD (Pa)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (mm)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)							
			1.92	2.15	2.39	2.63	2.87	3.11	3.35	3.83
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	8.65	8.45	8.27	8.10	7.93	7.78	7.64	7.37
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	8.58	8.40	8.23	8.07	7.92	7.77	7.64	7.38
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	8.52	8.35	8.19	8.04	7.90	7.76	7.63	7.40
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	8.47	8.31	8.16	8.02	7.88	7.76	7.63	7.41
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	8.42	8.28	8.13	8.00	7.87	7.75	7.63	7.41
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	8.38	8.24	8.11	7.98	7.86	7.74	7.63	7.42
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	8.35	8.21	8.09	7.96	7.85	7.74	7.63	7.43
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	8.31	8.18	8.06	7.95	7.84	7.73	7.63	7.44





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) -METRIC UNITS

0.96mm Deck
25mm Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
A	METAL DECK THICK (mm) (Td)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
B	METAL DECK YIELD STRENGTH (KPa)(Fy)	280	280	280	280	280	280	280	280
C	METAL DECK EFF. (Ix) (mm ⁴ /m)	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06
D	METAL DECK EFF. (Sx) (mm ³ /m)	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04
E	METAL DECK (Es)(KPa)	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08
F	# REINFORCING STEEL BAR DIA. (mm)	25	25	25	25	25	25	25	25
G	CONCRETE STRENGTH (f'c) (KPa)	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04
H	CONCRETE (Ec) (KPa)	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07
I	A _F (mm ² /m)	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150
J	I _{x(F)} (mm ⁴ /m)	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06
K	ALLOWABLE FORCE (KN/m)	6.378	6.378	6.378	6.378	6.378	6.378	6.378	6.378
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	490	490	490	490	490	490	490	490
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=400MPa

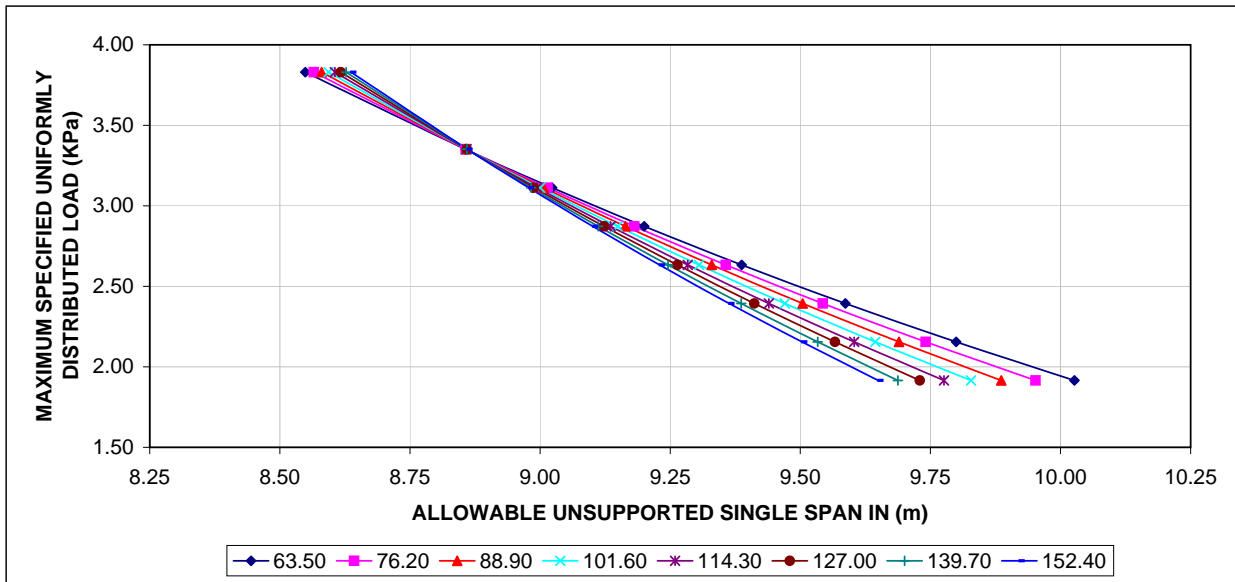
OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	2.87	2.65	2.46	2.29	2.15	2.02	1.91	1.81
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.24	2.10	1.98	1.87	1.77	1.69	1.61	1.53
Q	TOTAL DEAD LOAD (NO CONST.)KPa.	2.547	2.846	3.145	3.444	3.743	4.042	4.341	4.641
R	CONCRETE VOLUME. m ³ /10m ²	1.007	1.134	1.261	1.388	1.515	1.642	1.769	1.896

C.L. = CONSTRUCTION LOAD (Pa)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (mm)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)							
			1.92	2.15	2.39	2.63	2.87	3.11	3.35	3.83
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	10.03	9.80	9.59	9.39	9.20	9.02	8.86	8.55
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	9.95	9.74	9.54	9.36	9.18	9.01	8.86	8.57
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	9.89	9.69	9.50	9.33	9.16	9.01	8.86	8.58
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	9.83	9.64	9.47	9.31	9.15	9.00	8.86	8.59
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	9.78	9.60	9.44	9.28	9.14	8.99	8.86	8.61
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	9.73	9.57	9.41	9.26	9.12	8.99	8.86	8.62
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	9.69	9.53	9.39	9.25	9.11	8.98	8.86	8.63
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	9.65	9.50	9.36	9.23	9.10	8.98	8.86	8.64





ULTRA-BOND COMPOSITE FLOOR DECK
 MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)
 INCLUDES DEAD AND CONSTRUCTION LOAD CARRIED
 BY METAL DECK *(NOT SHOWN IN TABLES)*
 LIMIT STATE DESIGN (LSD) -METRIC UNITS

0.96mm Deck
30mm Rebar

INPUT SECTION:

ITEM	DESCRIPTION OR SECTION PROPERTIES	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
A	METAL DECK THICK (mm) (Td)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
B	METAL DECK YIELD STRENGTH (KPa)(Fy)	280	280	280	280	280	280	280	280
C	METAL DECK EFF. (Ix) (mm ⁴ /m)	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06	4.60E+06
D	METAL DECK EFF. (Sx) (mm ³ /m)	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04	3.68E+04
E	METAL DECK (Es)(KPa)	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08	2.03E+08
F	# REINFORCING STEEL BAR DIA. (mm)	30	30	30	30	30	30	30	30
G	CONCRETE STRENGTH (f'c) (KPa)	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04	3.00E+04
H	CONCRETE (Ec) (KPa)	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07	2.62E+07
I	A _F (mm ² /m)	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150	1454.150
J	I _{x(F)} (mm ⁴ /m)	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06	7.78E+06
K	ALLOWABLE FORCE (KN/m)	6.378	6.378	6.378	6.378	6.378	6.378	6.378	6.378
L	FINAL EFF. CROSS SECT. AREA A _{SO} (IN ²)	706	706	706	706	706	706	706	706
M	DEFLECTION CRITERIA K _{1,2,3,4}	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

* DEFLECTION CRITERIA: L/360 (K₁=1), L/480 (K₂=1.333), L/600 (K₃=1.670) OR L/720 (K₄=2.0)
 # REINFORCING BAR Fy0=400MPa

OUTPUT SECTION #1

ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	2.86	2.64	2.45	2.29	2.14	2.02	1.90	1.80
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.23	2.10	1.98	1.87	1.77	1.68	1.60	1.53
Q	TOTAL DEAD LOAD (NO CONST.)KPa.	2.557	2.856	3.155	3.455	3.754	4.053	4.352	4.651
R	CONCRETE VOLUME. m ³ /10m ²	1.000	1.127	1.254	1.381	1.508	1.635	1.762	1.889

C.L. = CONSTRUCTION LOAD (Pa)

OUTPUT SECTION #2: PLOT DATA - AND INPUT SECTION AS SHOWN #

ITEM	DESCRIPTION	(hf) OR (hc) (mm)	# MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOAD (KPa)							
			1.92	2.15	2.39	2.63	2.87	3.11	3.35	3.83
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	11.07	10.64	10.28	9.96	9.67	9.42	9.19	8.79
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	11.67	11.22	10.84	10.50	10.20	9.93	9.69	9.27
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	11.79	11.55	11.33	11.04	10.72	10.44	10.19	9.74
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	11.72	11.50	11.30	11.10	10.91	10.74	10.57	10.22
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	11.66	11.46	11.26	11.08	10.90	10.73	10.57	10.27
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	11.61	11.42	11.23	11.06	10.89	10.73	10.57	10.29
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	11.56	11.38	11.20	11.04	10.88	10.72	10.58	10.30
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	11.52	11.35	11.18	11.02	10.87	10.72	10.58	10.31

