



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

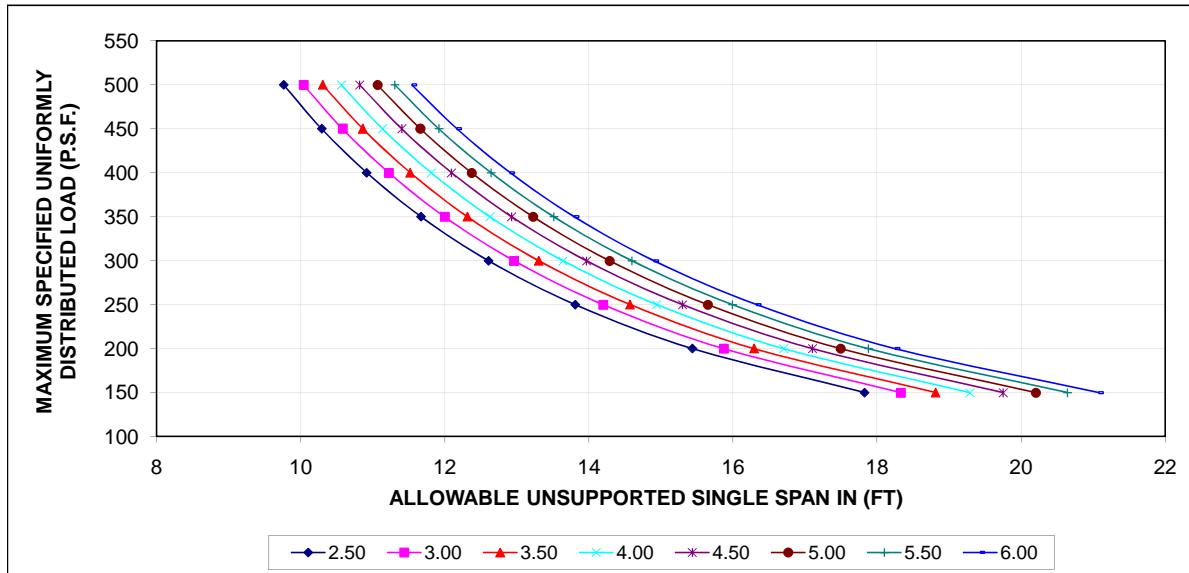
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.18	13.08	12.14	11.32	10.61	9.98	9.43	8.93
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	9.47	9.38	9.24	9.06	8.76	8.33	7.94	7.58
Q	TOTAL DEAD LOAD (NO 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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	17.83	15.44	13.81	12.61	11.67	10.92	10.29	9.76
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	18.33	15.87	14.20	12.96	12.00	11.22	10.58	10.04
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	18.81	16.29	14.57	13.30	12.32	11.52	10.86	10.30
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	19.29	16.70	14.94	13.64	12.63	11.81	11.14	10.56
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	19.75	17.10	15.30	13.96	12.93	12.09	11.40	10.82
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	20.20	17.49	15.65	14.28	13.22	12.37	11.66	11.06
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	20.64	17.88	15.99	14.60	13.51	12.64	11.92	11.31
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	21.08	18.25	16.33	14.90	13.80	12.91	12.17	11.54

Figures shown in yellow to be multiplied by a factor of 0.9 - See Manual (Creep Stress)





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
0.591" 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)	0.0476	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)	0.591	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	0.865	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)	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600
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

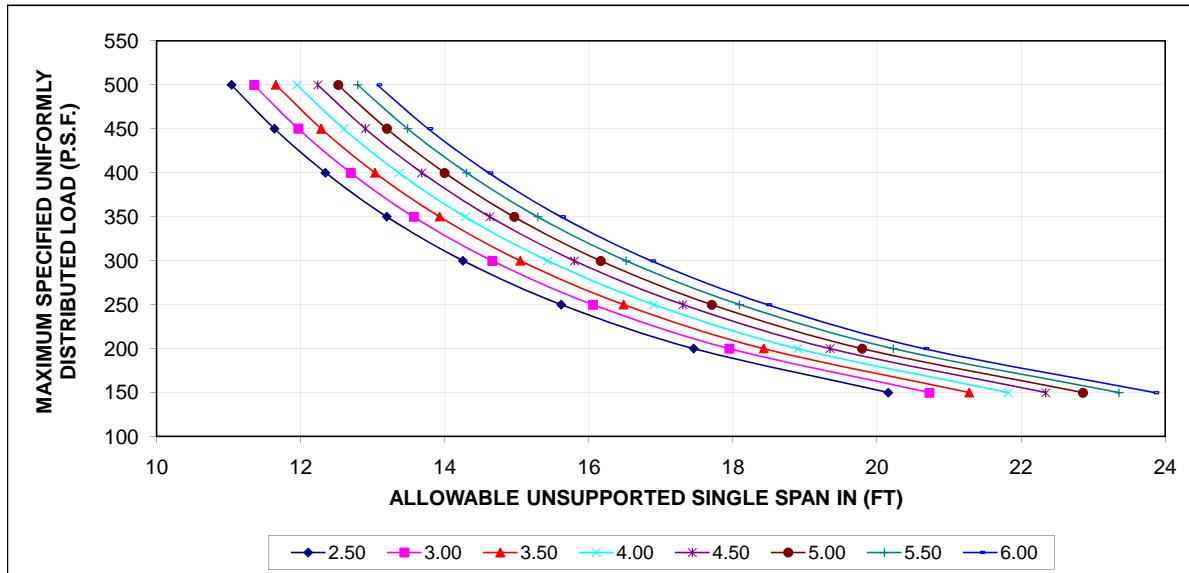
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.16	13.06	12.12	11.31	10.60	9.97	9.42	8.92
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	9.47	9.39	9.23	9.07	8.75	8.32	7.93	7.57
Q	TOTAL DEAD LOAD (NO CONST.).PSF.	53.47	59.72	65.97	72.21	78.46	84.71	90.96	97.20
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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	20.16	17.46	15.61	14.25	13.20	12.34	11.64	11.04
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	20.72	17.95	16.05	14.65	13.57	12.69	11.97	11.35
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	21.28	18.43	16.48	15.04	13.93	13.03	12.28	11.65
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	21.81	18.89	16.90	15.43	14.28	13.36	12.59	11.95
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	22.34	19.35	17.30	15.80	14.63	13.68	12.90	12.24
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	22.85	19.79	17.70	16.16	14.96	13.99	13.19	12.52
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	23.36	20.23	18.09	16.52	15.29	14.30	13.48	12.79
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	23.85	20.65	18.47	16.86	15.61	14.60	13.77	13.06

Figures shown in yellow to be multiplied by a factor of 0.9 - See Manual (Creep Stress)





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 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 _{SO} (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

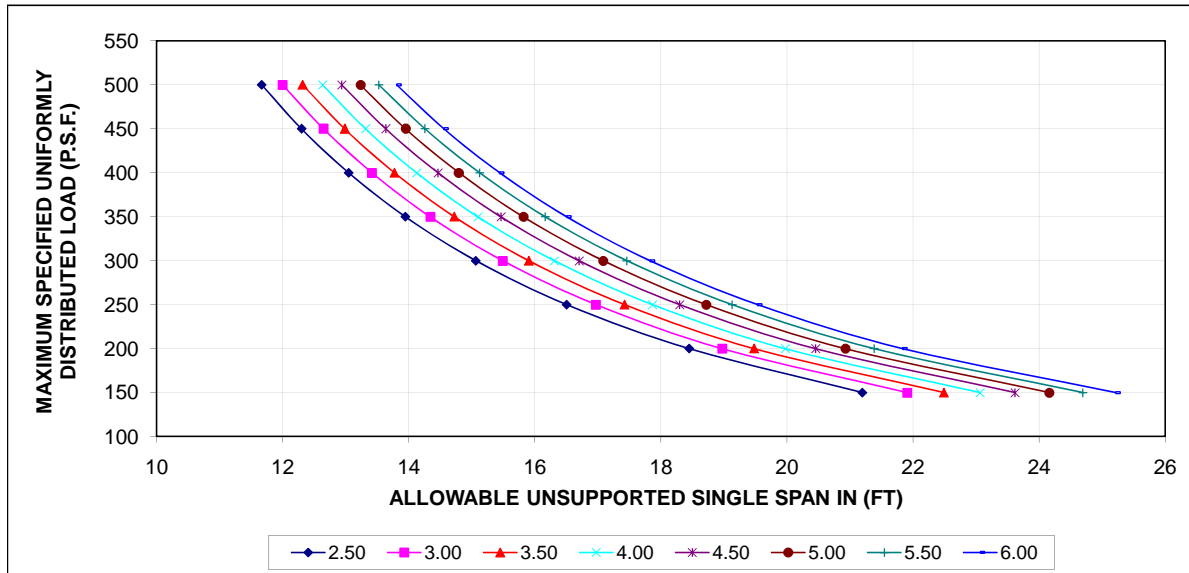
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.13	13.04	12.10	11.29	10.59	9.96	9.41	8.91
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	9.48	9.40	9.22	9.09	8.74	8.31	7.92	7.57
Q	TOTAL DEAD LOAD (NO 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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	21.20	18.45	16.50	15.06	13.95	13.05	12.30	11.67
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	21.90	18.97	16.97	15.49	14.34	13.41	12.65	12.00
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	22.49	19.48	17.42	15.90	14.72	13.77	12.98	12.32
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	23.06	19.97	17.86	16.31	15.10	14.12	13.31	12.63
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	23.62	20.45	18.29	16.70	15.46	14.46	13.64	12.94
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	24.16	20.92	18.71	17.08	15.82	14.80	13.95	13.23
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	24.69	21.38	19.13	17.46	16.17	15.12	14.26	13.52
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	25.21	21.84	19.53	17.83	16.51	15.44	14.56	13.81

Figures shown in yellow to be multiplied by a factor of 0.9 - See Manual (Creep Stress)





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

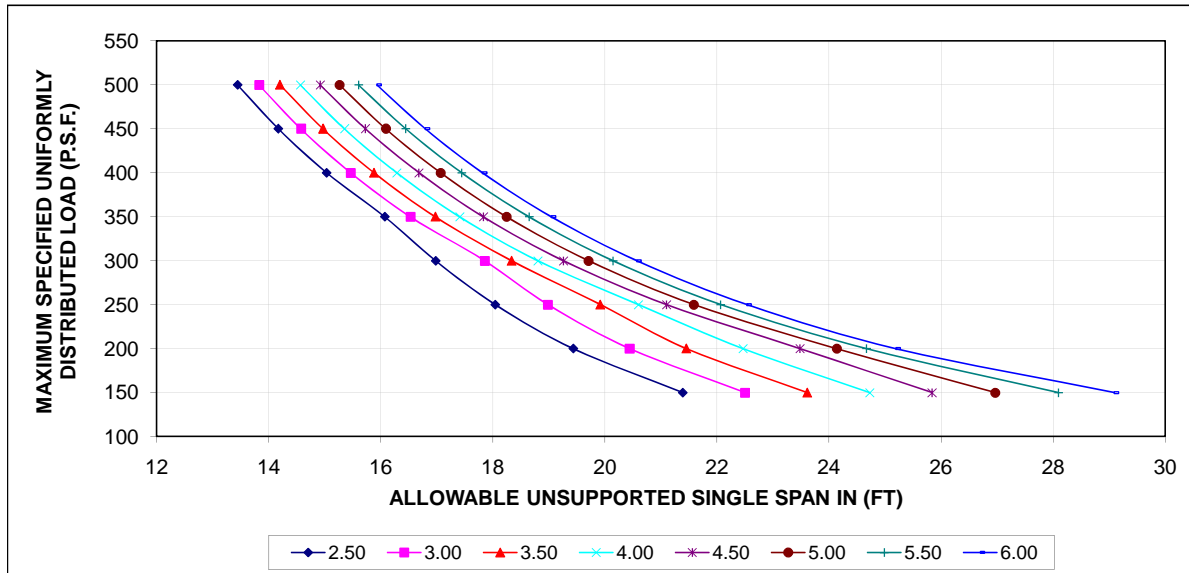
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.10	13.01	12.08	11.27	10.57	9.94	9.39	8.90
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	9.49	9.42	9.21	9.11	8.73	8.30	7.91	7.56
Q	TOTAL DEAD LOAD (NO 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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	21.39	19.43	18.04	16.98	16.07	15.03	14.17	13.45
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	22.50	20.44	18.98	17.85	16.53	15.46	14.58	13.83
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	23.61	21.45	19.92	18.33	16.97	15.88	14.97	14.20
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	24.72	22.47	20.60	18.80	17.41	16.28	15.35	14.56
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	25.84	23.48	21.10	19.26	17.83	16.68	15.72	14.92
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	26.96	24.13	21.59	19.71	18.24	17.07	16.09	15.26
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	28.09	24.67	22.06	20.14	18.65	17.44	16.45	15.60
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	29.09	25.19	22.53	20.57	19.04	17.81	16.80	15.93

Figures shown in yellow to be multiplied by a factor of 0.9 - See Manual (Creep Stress)





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

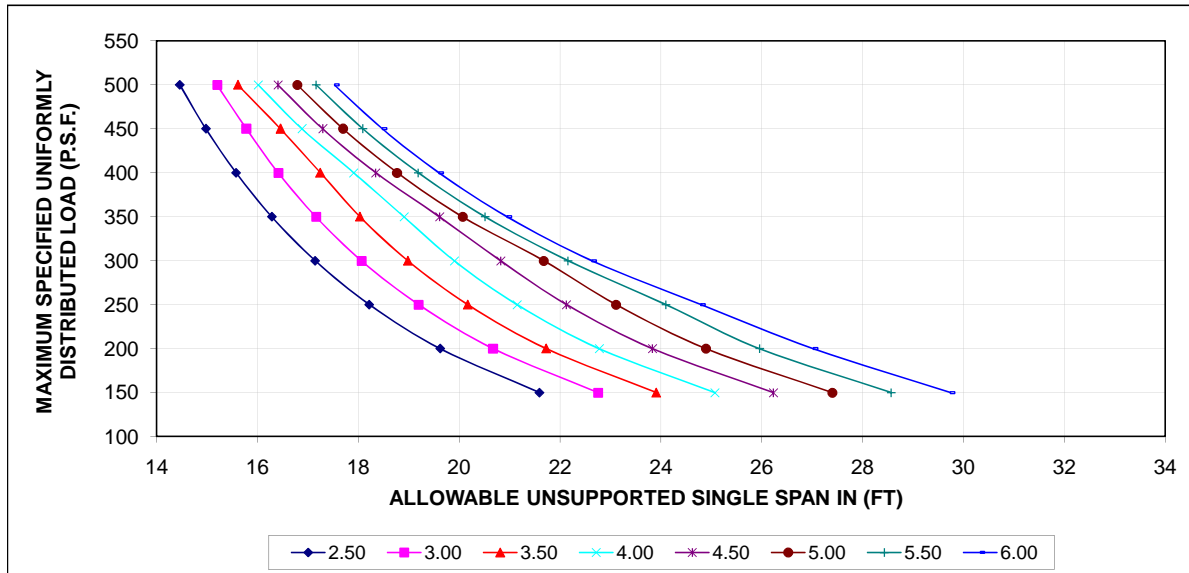
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.06	12.98	12.05	11.25	10.54	9.92	9.37	8.88
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	9.50	9.44	9.19	9.14	8.71	8.29	7.90	7.55
Q	TOTAL DEAD LOAD (NO 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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	21.59	19.62	18.22	17.14	16.29	15.58	14.98	14.46
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	22.75	20.67	19.19	18.06	17.16	16.41	15.78	15.20
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	23.91	21.72	20.17	18.98	18.03	17.25	16.46	15.61
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	25.07	22.78	21.15	19.90	18.90	17.90	16.88	16.01
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	26.23	23.83	22.13	20.82	19.61	18.34	17.29	16.41
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	27.39	24.89	23.11	21.67	20.07	18.77	17.70	16.79
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	28.56	25.95	24.10	22.16	20.51	19.19	18.09	17.16
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	29.74	27.02	24.79	22.63	20.95	19.60	18.48	17.53

Figures shown in yellow to be multiplied by a factor of 0.9 - See Manual (Creep Stress)





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}	1.000	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

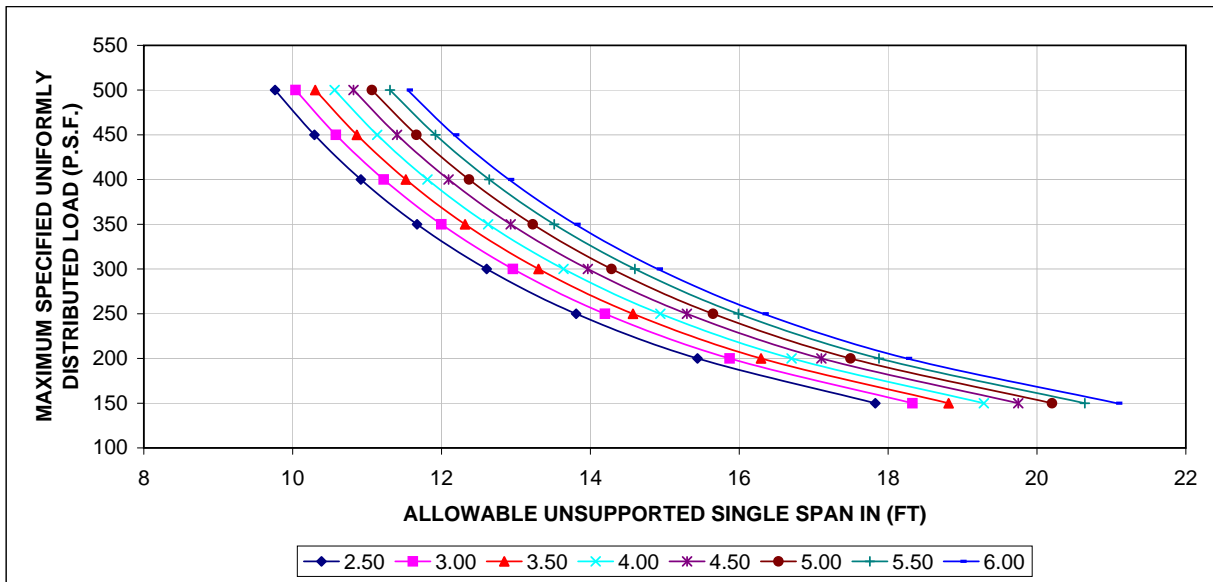
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.18	13.08	12.14	11.32	10.61	9.98	9.43	8.93
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	9.06	9.38	9.47	9.24	8.76	8.33	7.94	7.58
Q	TOTAL DEAD LOAD (NO 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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	17.83	15.44	13.81	12.61	11.67	10.92	10.29	9.76
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	18.33	15.87	14.20	12.96	12.00	11.22	10.58	10.04
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	18.81	16.29	14.57	13.30	12.32	11.52	10.86	10.30
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	19.29	16.70	14.94	13.64	12.63	11.81	11.14	10.56
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	19.75	17.10	15.30	13.96	12.93	12.09	11.40	10.82
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	20.20	17.49	15.65	14.28	13.22	12.37	11.66	11.06
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	20.64	17.88	15.99	14.60	13.51	12.64	11.92	11.31
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	21.08	18.25	16.33	14.90	13.80	12.91	12.17	11.54

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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
0.591" 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)	0.0476	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)	0.591	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	0.865	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)	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600
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

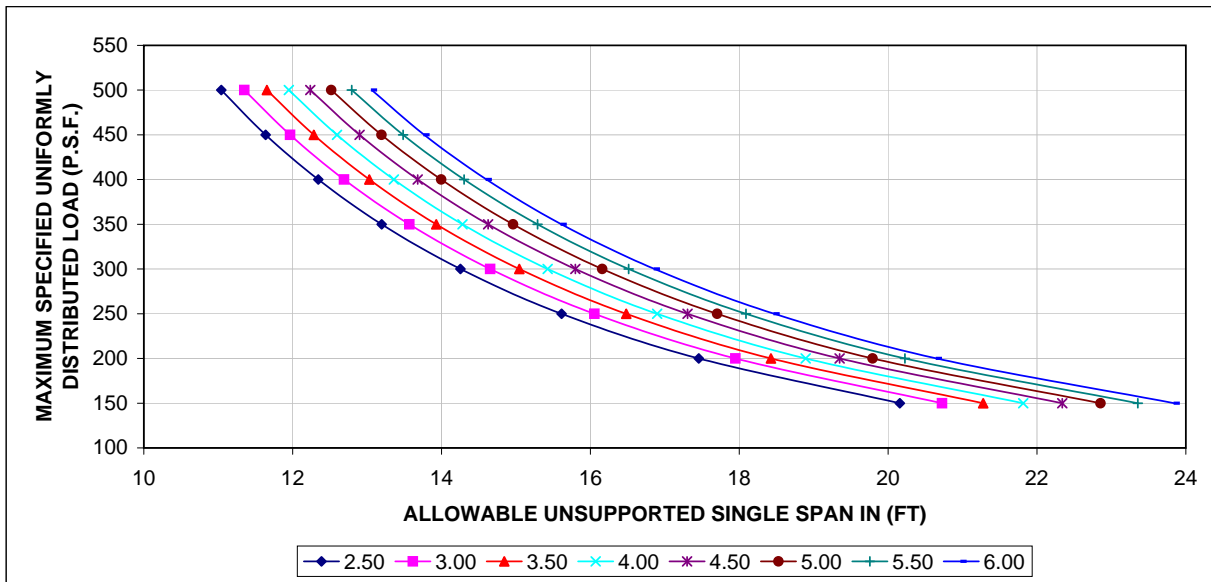
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.16	13.06	12.12	11.31	10.60	9.97	9.42	8.92
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	9.07	9.39	9.47	9.23	8.75	8.32	7.93	7.57
Q	TOTAL DEAD LOAD (NO CONST.).PSF.	53.47	59.72	65.97	72.21	78.46	84.71	90.96	97.20
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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	20.16	17.46	15.61	14.25	13.20	12.34	11.64	11.04
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	20.72	17.95	16.05	14.65	13.57	12.69	11.97	11.35
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	21.28	18.43	16.48	15.04	13.93	13.03	12.28	11.65
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	21.81	18.89	16.90	15.43	14.28	13.36	12.59	11.95
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	22.34	19.35	17.30	15.80	14.63	13.68	12.90	12.24
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	22.85	19.79	17.70	16.16	14.96	13.99	13.19	12.52
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	23.36	20.23	18.09	16.52	15.29	14.30	13.48	12.79
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	23.85	20.65	18.47	16.86	15.61	14.60	13.77	13.06

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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 _{SO} (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}	1.000	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

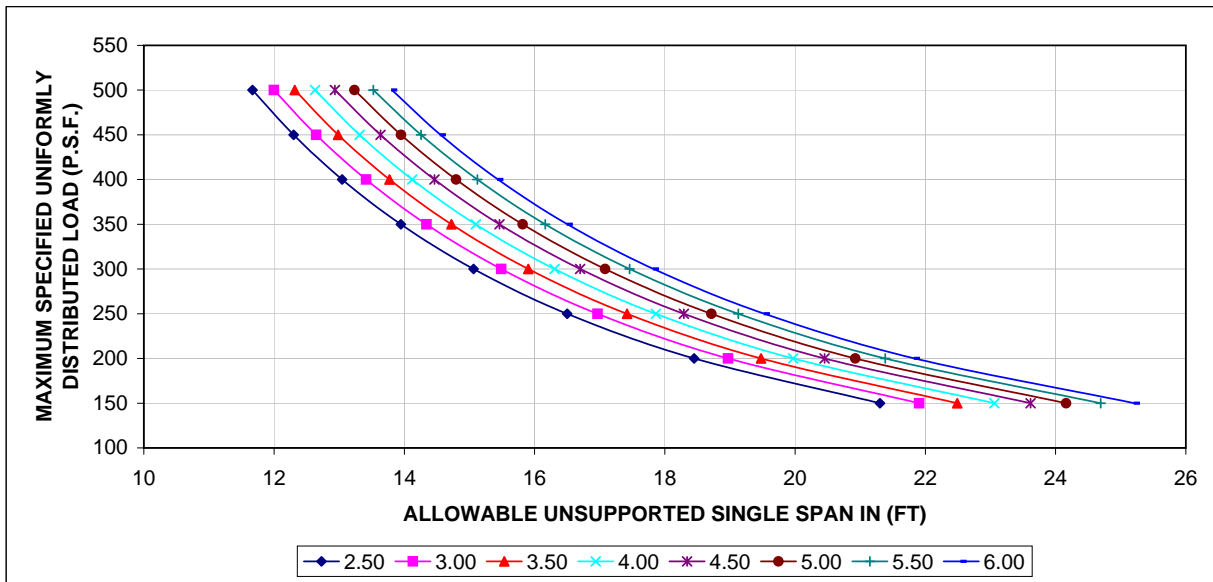
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.13	13.04	12.10	11.29	10.59	9.96	9.41	8.91
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	9.09	9.40	9.48	9.22	8.74	8.31	7.92	7.57
Q	TOTAL DEAD LOAD (NO 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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	21.30	18.45	16.50	15.06	13.95	13.05	12.30	11.67
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	21.90	18.97	16.97	15.49	14.34	13.41	12.65	12.00
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	22.49	19.48	17.42	15.90	14.72	13.77	12.98	12.32
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	23.06	19.97	17.86	16.31	15.10	14.12	13.31	12.63
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	23.62	20.45	18.29	16.70	15.46	14.46	13.64	12.94
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	24.16	20.92	18.71	17.08	15.82	14.80	13.95	13.23
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	24.69	21.38	19.13	17.46	16.17	15.12	14.26	13.52
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	25.21	21.84	19.53	17.83	16.51	15.44	14.56	13.81

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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}	1.000	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

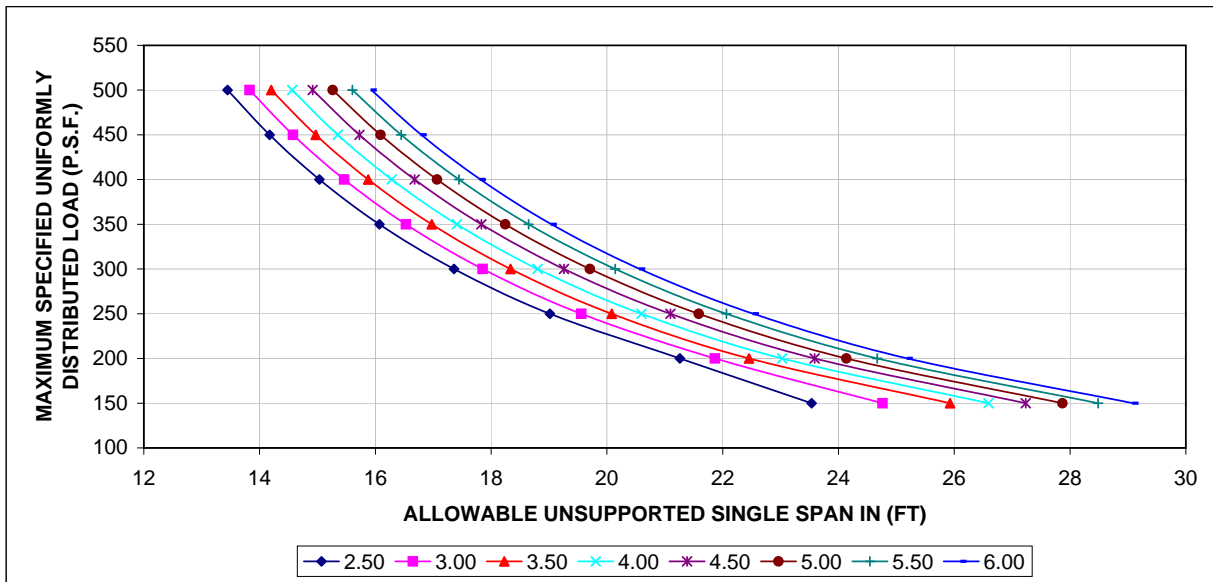
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	14.10	13.01	12.08	11.27	10.57	9.94	9.39	8.90
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	9.11	9.42	9.49	9.21	8.73	8.30	7.91	7.56
Q	TOTAL DEAD LOAD (NO 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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	23.54	21.26	19.01	17.36	16.07	15.03	14.17	13.45
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	24.76	21.86	19.56	17.85	16.53	15.46	14.58	13.83
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	25.93	22.45	20.08	18.33	16.97	15.88	14.97	14.20
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	26.59	23.03	20.60	18.80	17.41	16.28	15.35	14.56
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	27.24	23.59	21.10	19.26	17.83	16.68	15.72	14.92
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	27.87	24.13	21.59	19.71	18.24	17.07	16.09	15.26
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	28.49	24.67	22.06	20.14	18.65	17.44	16.45	15.60
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	29.09	25.19	22.53	20.57	19.04	17.81	16.80	15.93

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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

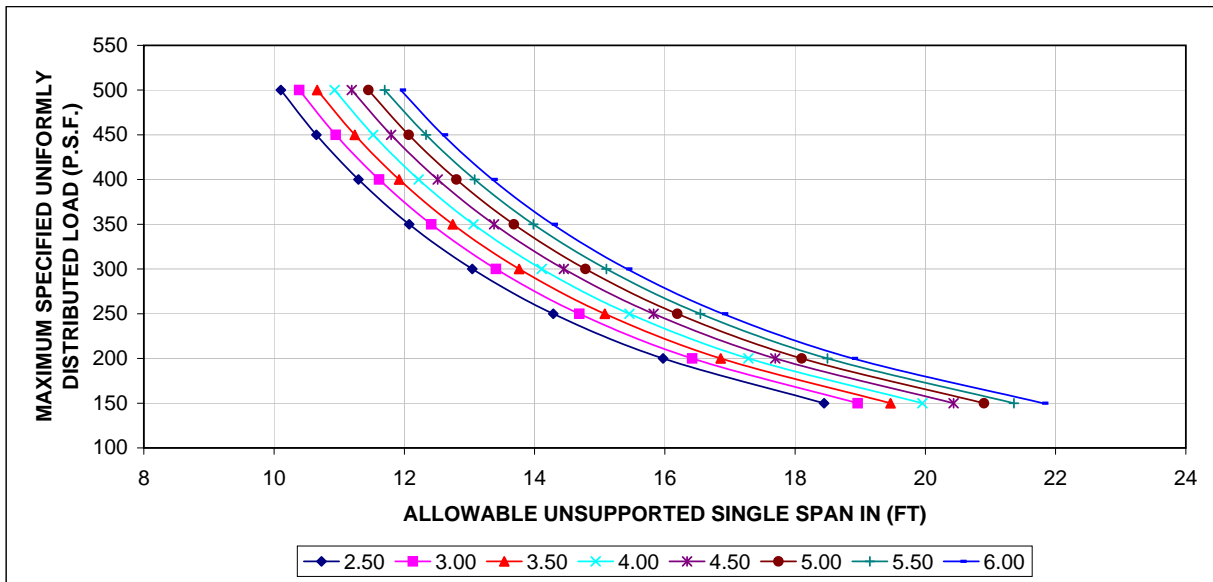
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	9.47	8.73	8.10	7.55	7.07	6.65	6.28	5.95
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	7.37	6.92	6.51	6.15	5.83	5.54	5.28	5.04
Q	TOTAL DEAD LOAD (NO CONST.).PSF.	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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	18.45	15.97	14.29	13.04	12.08	11.30	10.65	10.10
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	18.96	16.42	14.69	13.41	12.41	11.61	10.95	10.39
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	19.47	16.86	15.08	13.76	12.74	11.92	11.24	10.66
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	19.96	17.28	15.46	14.11	13.06	12.22	11.52	10.93
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	20.43	17.70	15.83	14.45	13.38	12.51	11.80	11.19
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	20.90	18.10	16.19	14.78	13.68	12.80	12.07	11.45
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	21.36	18.50	16.54	15.10	13.98	13.08	12.33	11.70
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	21.81	18.89	16.89	15.42	14.28	13.35	12.59	11.94

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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
0.787" 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)	0.0378	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)	0.787	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	0.687	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)	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560
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

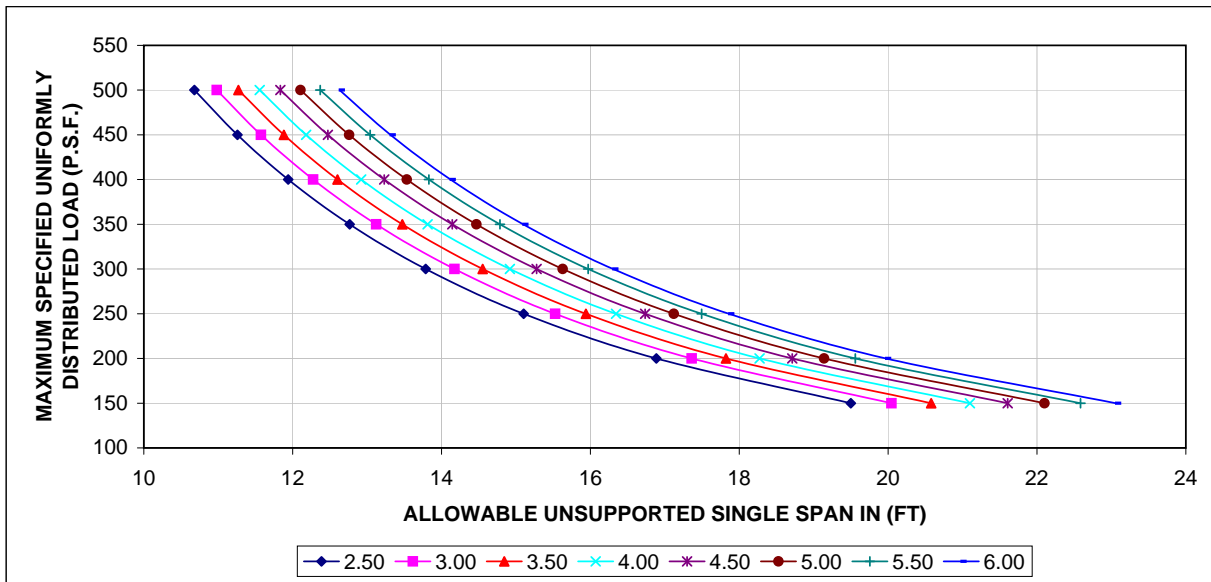
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	9.45	8.71	8.08	7.54	7.06	6.64	6.27	5.94
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	7.36	6.91	6.50	6.15	5.83	5.54	5.28	5.04
Q	TOTAL DEAD LOAD (NO CONST.).PSF.	53.01	59.25	65.50	71.75	78.00	84.24	90.49	96.74
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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	19.50	16.89	15.10	13.79	12.76	11.94	11.26	10.68
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	20.05	17.36	15.53	14.17	13.12	12.28	11.57	10.98
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	20.58	17.82	15.94	14.55	13.47	12.60	11.88	11.27
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	21.10	18.27	16.34	14.92	13.81	12.92	12.18	11.56
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	21.61	18.71	16.74	15.28	14.14	13.23	12.47	11.83
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	22.10	19.14	17.12	15.63	14.47	13.53	12.76	12.11
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	22.59	19.56	17.49	15.97	14.79	13.83	13.04	12.37
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	23.06	19.97	17.86	16.31	15.10	14.12	13.31	12.63

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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
0.984" 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)	0.0378	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)	0.984	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	0.687	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)	0.760	0.760	0.760	0.760	0.760	0.760	0.760	0.760
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

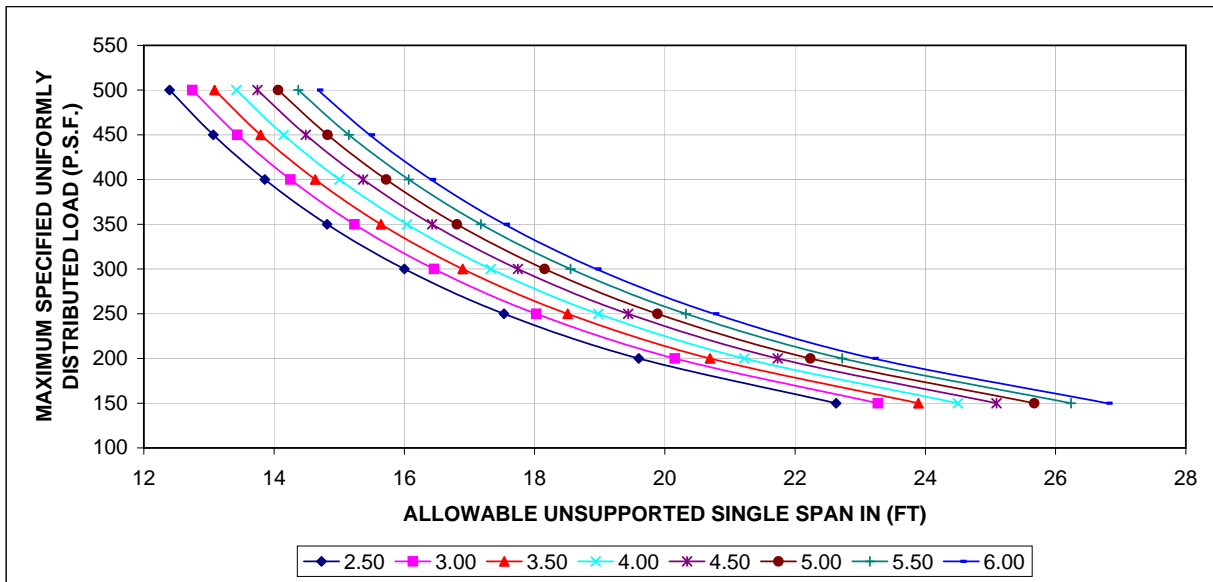
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	9.42	8.69	8.07	7.52	7.05	6.63	6.26	5.93
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	7.35	6.89	6.49	6.14	5.82	5.53	5.27	5.03
Q	TOTAL DEAD LOAD (NO CONST.).PSF.	53.19	59.43	65.68	71.93	78.18	84.42	90.67	96.92
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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	22.63	19.60	17.53	16.00	14.82	13.86	13.07	12.40
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	23.27	20.15	18.03	16.45	15.23	14.25	13.44	12.75
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	23.89	20.69	18.51	16.90	15.64	14.63	13.80	13.09
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	24.50	21.22	18.98	17.32	16.04	15.00	14.15	13.42
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	25.09	21.73	19.44	17.74	16.43	15.37	14.49	13.74
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	25.67	22.23	19.89	18.15	16.81	15.72	14.82	14.06
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	26.24	22.72	20.32	18.55	17.18	16.07	15.15	14.37
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	26.79	23.20	20.75	18.95	17.54	16.41	15.47	14.67

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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

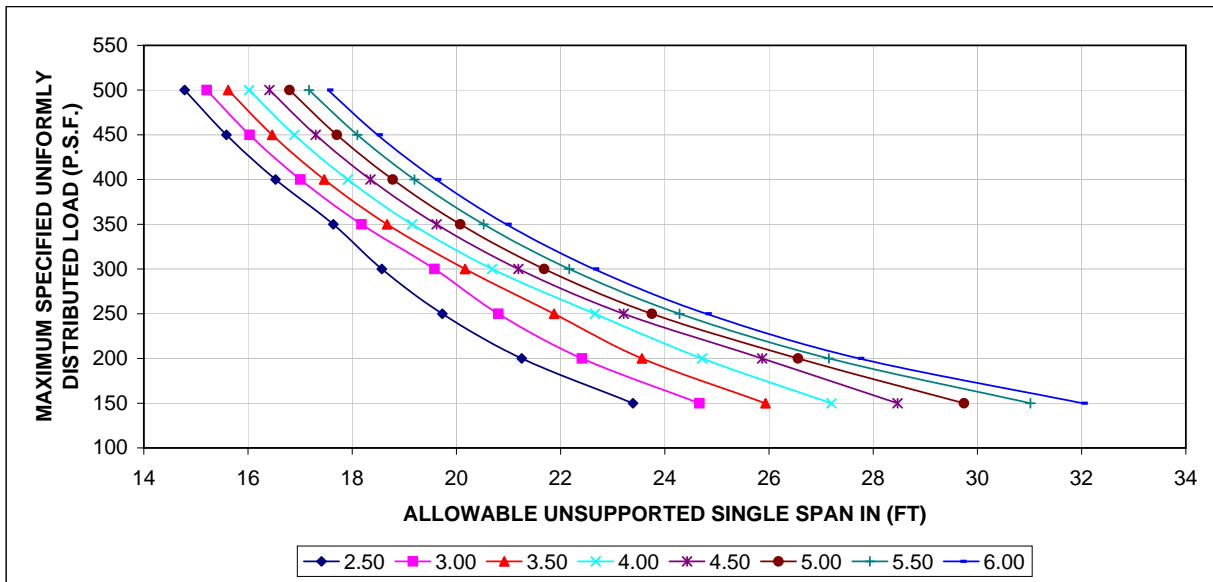
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (IN)							
		2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
O	MAX. UNSHORED SPAN (C.L.21PSF).FT.	9.40	8.67	8.05	7.51	7.03	6.62	6.25	5.92
P	MAX. UNSHORED SPAN (C.L.42PSF).FT.	7.33	6.88	6.48	6.13	5.81	5.52	5.26	5.03
Q	TOTAL DEAD LOAD (NO CONST.).PSF.	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)							
			150	200	250	300	350	400	450	500
1	ALLOW. SINGLE UNSUP. SPAN - FT.	2.50	23.39	21.25	19.73	18.57	17.64	16.53	15.58	14.78
2	ALLOW. SINGLE UNSUP. SPAN - FT.	3.00	24.66	22.41	20.80	19.58	18.18	17.00	16.03	15.21
3	ALLOW. SINGLE UNSUP. SPAN - FT.	3.50	25.93	23.56	21.87	20.17	18.67	17.46	16.47	15.62
4	ALLOW. SINGLE UNSUP. SPAN - FT.	4.00	27.20	24.71	22.66	20.68	19.15	17.91	16.89	16.02
5	ALLOW. SINGLE UNSUP. SPAN - FT.	4.50	28.47	25.87	23.21	21.19	19.62	18.35	17.30	16.41
6	ALLOW. SINGLE UNSUP. SPAN - FT.	5.00	29.74	26.56	23.75	21.68	20.07	18.78	17.70	16.80
7	ALLOW. SINGLE UNSUP. SPAN - FT.	5.50	31.02	27.15	24.28	22.17	20.52	19.20	18.10	17.17
8	ALLOW. SINGLE UNSUP. SPAN - FT.	6.00	32.02	27.73	24.80	22.64	20.96	19.61	18.48	17.54

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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

1.21mm 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)	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}	1.000	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

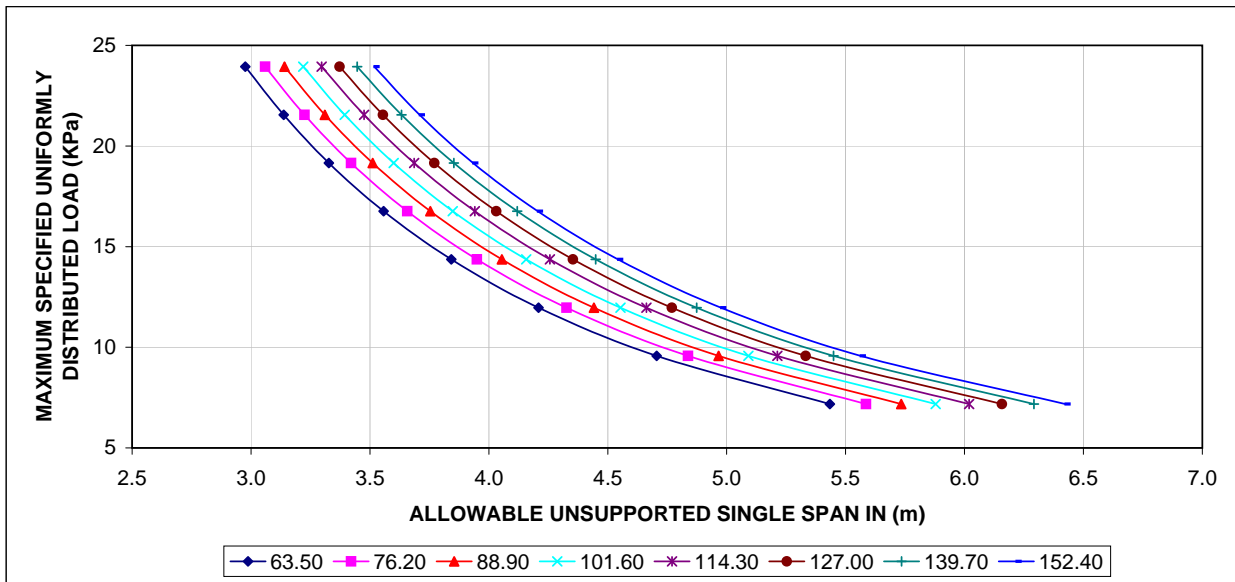
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	4.32	3.99	3.70	3.45	3.23	3.04	2.87	2.72
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.76	2.86	2.89	2.82	2.67	2.54	2.42	2.31
Q	TOTAL 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)							
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94
			1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	5.43	4.71	4.21	3.84	3.56
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	5.59	4.84	4.33	3.95	3.66	3.42	3.23	3.06
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	5.73	4.97	4.44	4.05	3.75	3.51	3.31	3.14
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	5.88	5.09	4.55	4.16	3.85	3.60	3.39	3.22
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	6.02	5.21	4.66	4.26	3.94	3.69	3.48	3.30
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	6.16	5.33	4.77	4.35	4.03	3.77	3.55	3.37
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	6.29	5.45	4.87	4.45	4.12	3.85	3.63	3.45
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	6.42	5.56	4.98	4.54	4.21	3.93	3.71	3.52

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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

1.21mm 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)	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 _{SO} (IN ²)	387	387	387	387	387	387	387	387
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

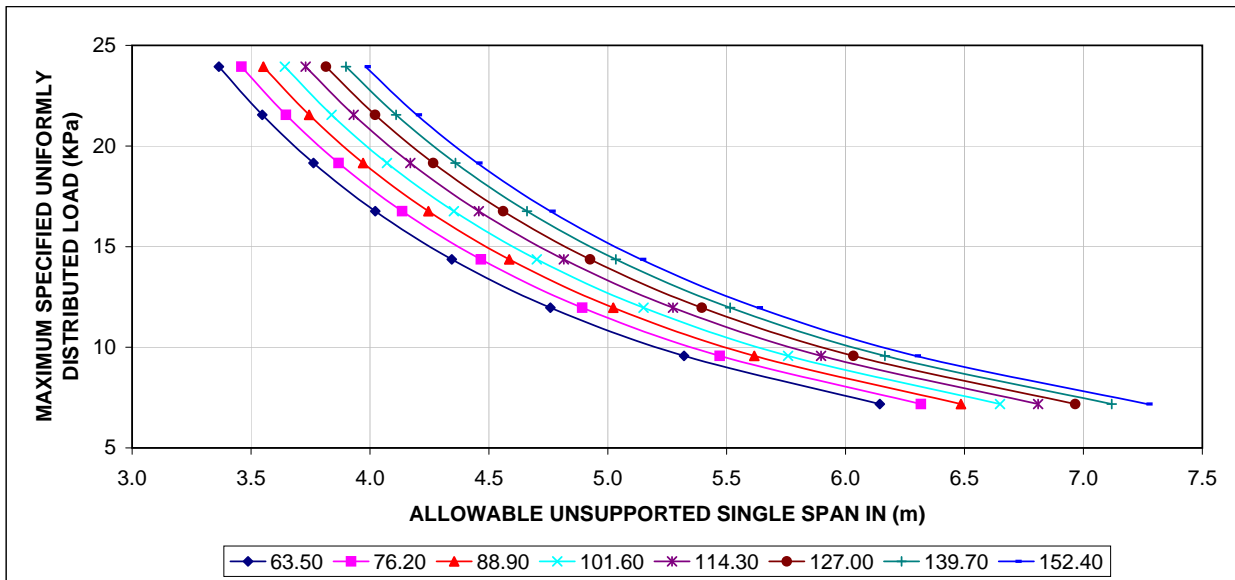
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	4.32	3.98	3.70	3.45	3.23	3.04	2.87	2.72
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.77	2.86	2.89	2.81	2.67	2.54	2.42	2.31
Q	TOTAL 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)								
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94	
			1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	6.14	5.32	4.76	4.34	4.02	3.76
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	6.32	5.47	4.89	4.47	4.14	3.87	3.65	3.46	
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	6.49	5.62	5.02	4.59	4.25	3.97	3.74	3.55	
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	6.65	5.76	5.15	4.70	4.35	4.07	3.84	3.64	
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	6.81	5.90	5.27	4.81	4.46	4.17	3.93	3.73	
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	6.97	6.03	5.40	4.93	4.56	4.27	4.02	3.82	
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	7.12	6.17	5.51	5.03	4.66	4.36	4.11	3.90	
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	7.27	6.29	5.63	5.14	4.76	4.45	4.20	3.98	

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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

1.21mm 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)	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}	1.000	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

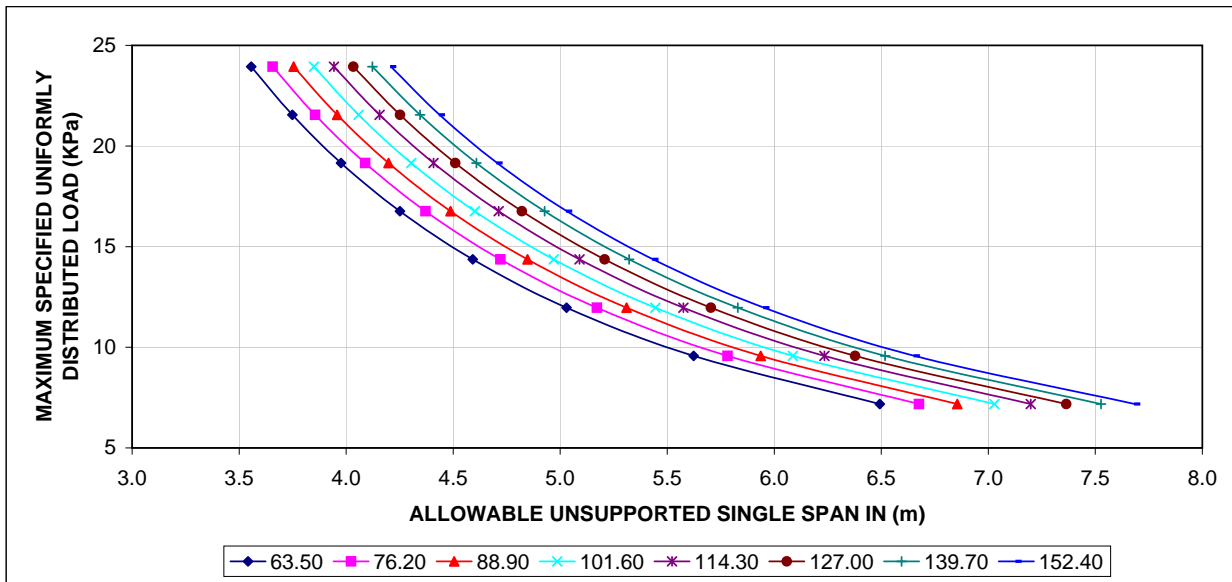
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	4.31	3.97	3.69	3.44	3.23	3.04	2.87	2.72
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.77	2.87	2.89	2.81	2.66	2.53	2.41	2.31
Q	TOTAL 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)								
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94	
			1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	6.49	5.62	5.03	4.59	4.25	3.98
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	6.68	5.78	5.17	4.72	4.37	4.09	3.85	3.66	
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	6.85	5.94	5.31	4.85	4.49	4.20	3.96	3.75	
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	7.03	6.09	5.44	4.97	4.60	4.30	4.06	3.85	
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	7.20	6.23	5.58	5.09	4.71	4.41	4.16	3.94	
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	7.36	6.38	5.70	5.21	4.82	4.51	4.25	4.03	
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	7.53	6.52	5.83	5.32	4.93	4.61	4.35	4.12	
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	7.69	6.66	5.95	5.43	5.03	4.71	4.44	4.21	

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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

1.21mm 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)	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)	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	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)	581	581	581	581	581	581	581	581
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

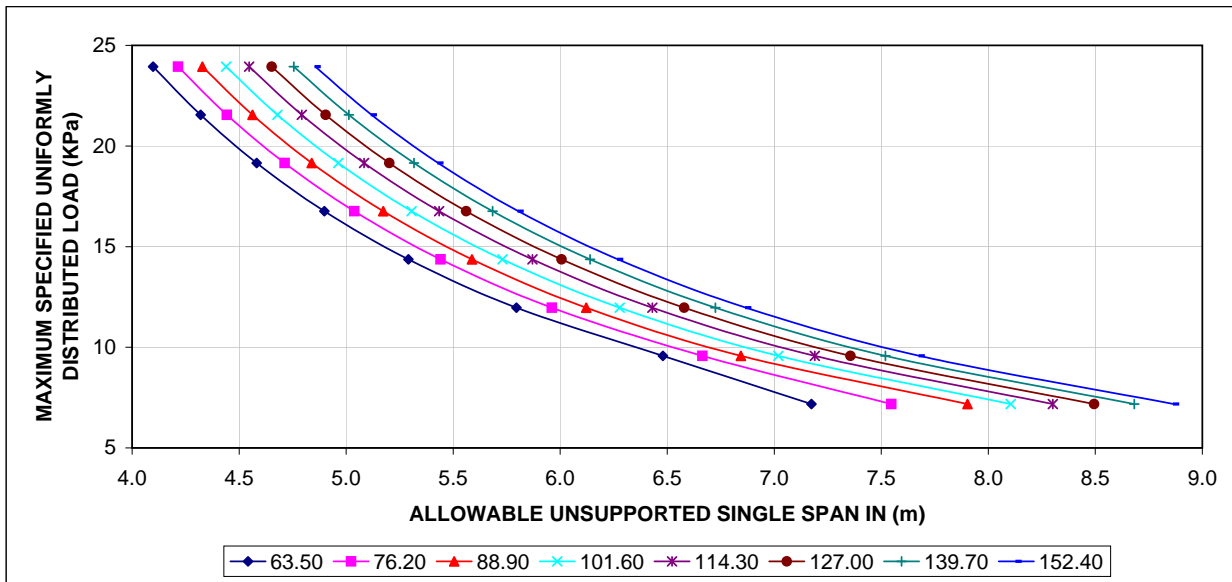
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	4.30	3.97	3.68	3.44	3.22	3.03	2.86	2.71
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.78	2.87	2.89	2.81	2.66	2.53	2.41	2.30
Q	TOTAL 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)								
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94	
			1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	7.17	6.48	5.80	5.29	4.90	4.58
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	7.55	6.66	5.96	5.44	5.04	4.71	4.44	4.21	
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	7.90	6.84	6.12	5.59	5.17	4.84	4.56	4.33	
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	8.10	7.02	6.28	5.73	5.31	4.96	4.68	4.44	
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	8.30	7.19	6.43	5.87	5.43	5.08	4.79	4.55	
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	8.49	7.36	6.58	6.01	5.56	5.20	4.90	4.65	
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	8.68	7.52	6.73	6.14	5.68	5.32	5.01	4.76	
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	8.87	7.68	6.87	6.27	5.80	5.43	5.12	4.86	

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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

1.21mm 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)	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}	1.000	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

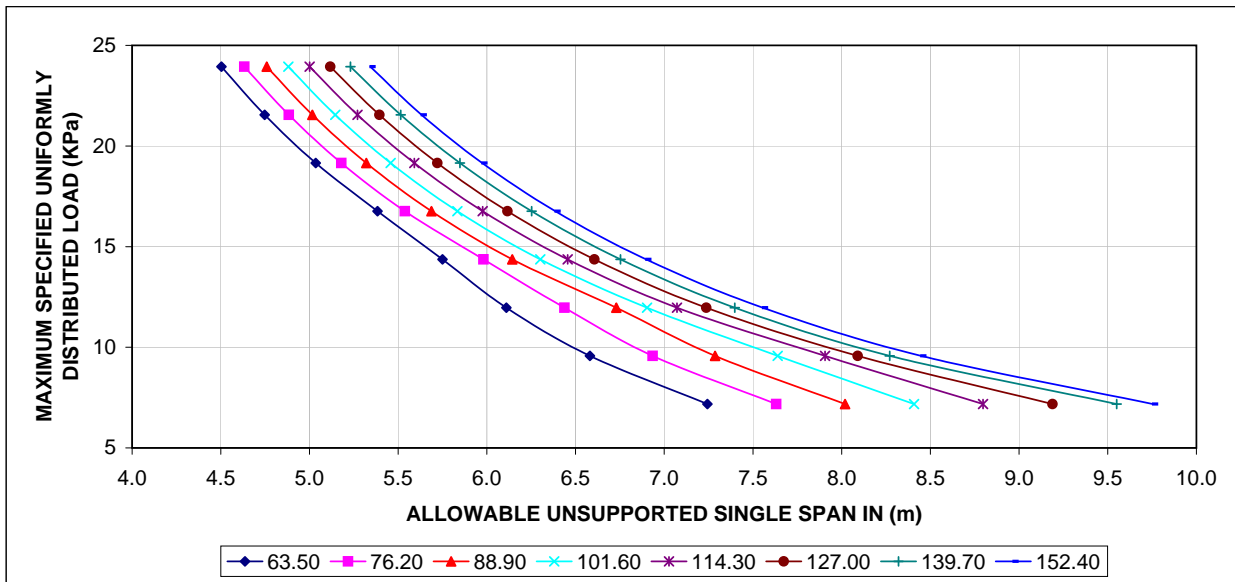
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	4.28	3.95	3.67	3.43	3.21	3.02	2.86	2.71
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.79	2.88	2.90	2.80	2.66	2.53	2.41	2.30
Q	TOTAL 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)								
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94	
			1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	7.24	6.58	6.11	5.75	5.38	5.04
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	7.63	6.93	6.44	5.98	5.54	5.18	4.88	4.63	
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	8.02	7.29	6.73	6.14	5.69	5.32	5.02	4.76	
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	8.41	7.64	6.90	6.30	5.83	5.46	5.15	4.88	
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	8.80	7.91	7.07	6.46	5.98	5.59	5.27	5.00	
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	9.19	8.09	7.24	6.61	6.12	5.72	5.39	5.12	
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	9.55	8.27	7.40	6.75	6.25	5.85	5.51	5.23	
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	9.75	8.45	7.56	6.90	6.39	5.97	5.63	5.34	

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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 (p) (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

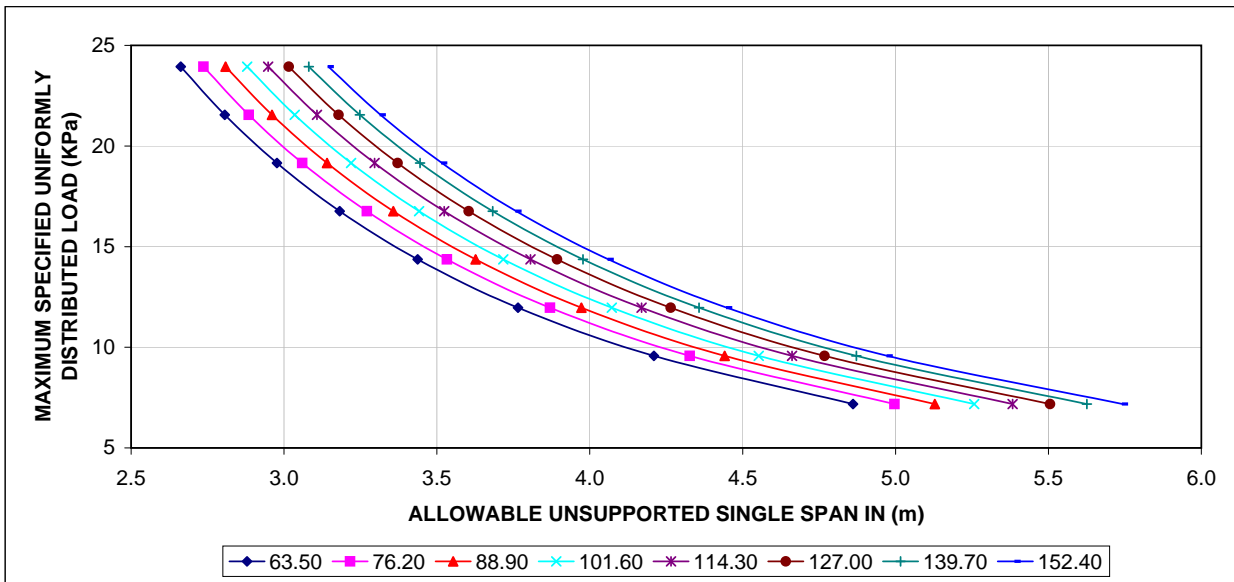
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	2.89	2.66	2.47	2.30	2.16	2.03	1.92	1.81
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.25	2.11	1.99	1.88	1.78	1.69	1.61	1.54
Q	TOTAL 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)								
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94	
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	4.86	4.21	3.77	3.44	3.18	2.98	2.81	2.66	
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	5.00	4.33	3.87	3.53	3.27	3.06	2.88	2.74	
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	5.13	4.44	3.97	3.63	3.36	3.14	2.96	2.81	
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	5.26	4.55	4.07	3.72	3.44	3.22	3.04	2.88	
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	5.38	4.66	4.17	3.81	3.52	3.30	3.11	2.95	
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	5.51	4.77	4.26	3.89	3.60	3.37	3.18	3.02	
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	5.63	4.87	4.36	3.98	3.68	3.44	3.25	3.08	
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	5.74	4.97	4.45	4.06	3.76	3.52	3.32	3.15	

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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

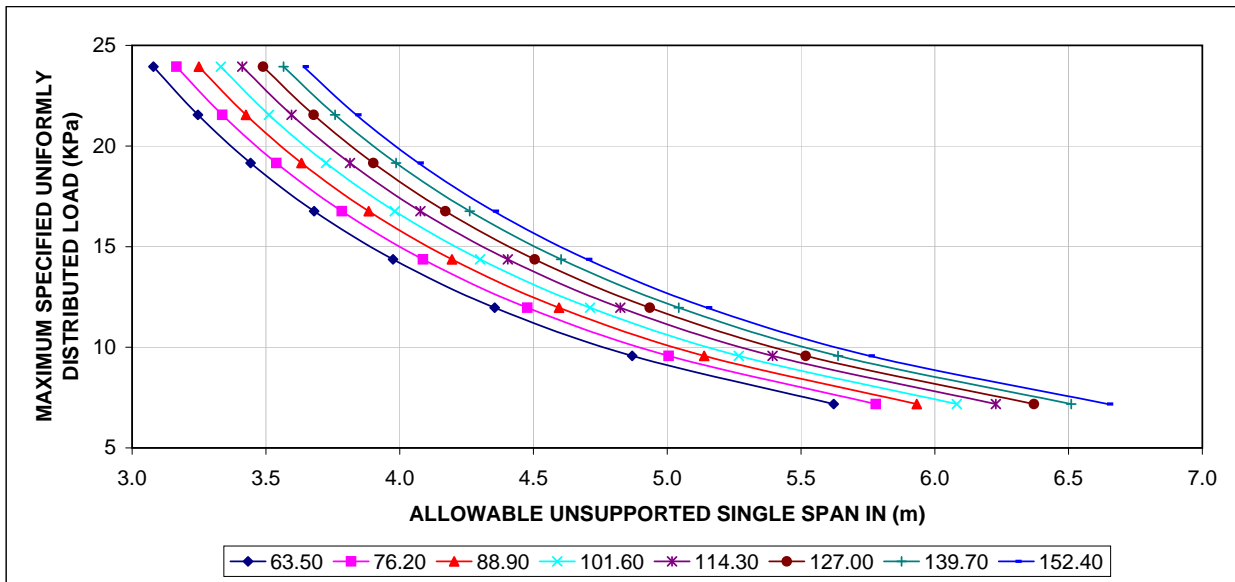
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	2.89	2.66	2.47	2.30	2.16	2.03	1.91	1.81
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.25	2.11	1.99	1.88	1.78	1.69	1.61	1.54
Q	TOTAL 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)							
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	5.62	4.87	4.35	3.98	3.68	3.44	3.25	3.08
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	5.78	5.01	4.48	4.09	3.78	3.54	3.34	3.17
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	5.93	5.14	4.60	4.20	3.88	3.63	3.43	3.25
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	6.08	5.27	4.71	4.30	3.98	3.72	3.51	3.33
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	6.23	5.39	4.82	4.40	4.08	3.81	3.60	3.41
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	6.37	5.52	4.93	4.50	4.17	3.90	3.68	3.49
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	6.51	5.64	5.04	4.60	4.26	3.99	3.76	3.57
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	6.65	5.76	5.15	4.70	4.35	4.07	3.84	3.64

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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)
 # REINFORCING BAR Fy0=400MPa

OUTPUT SECTION #1

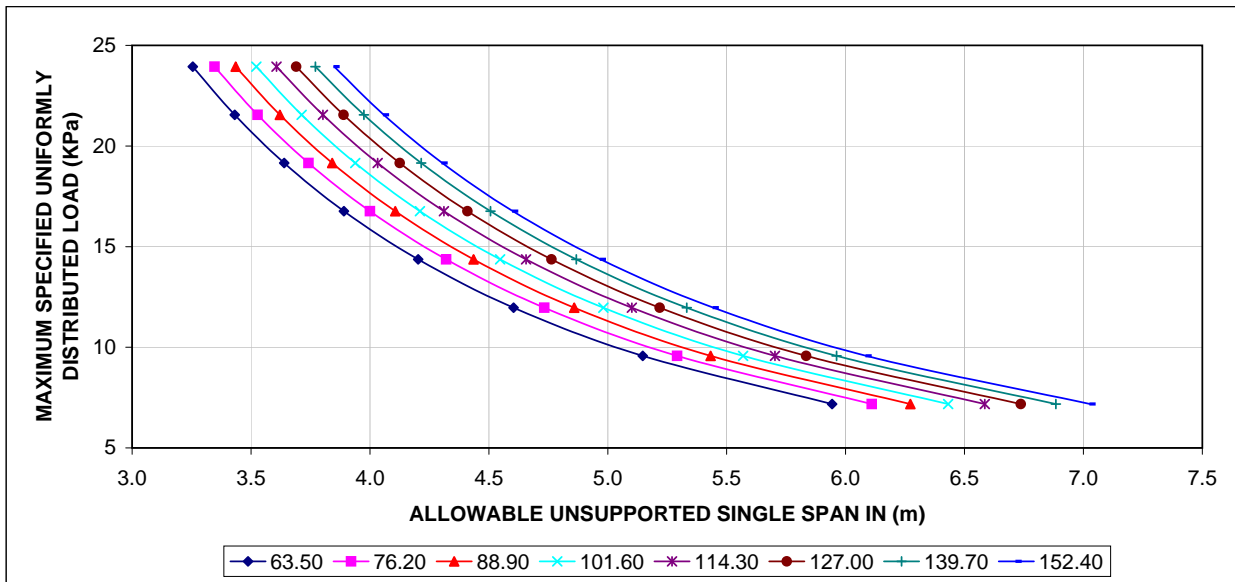
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	2.88	2.66	2.46	2.30	2.15	2.02	1.91	1.81
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.24	2.10	1.98	1.87	1.78	1.69	1.61	1.54
Q	TOTAL 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)								
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94	
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	5.94	5.15	4.60	4.20	3.89	3.64	3.43	3.26	
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	6.11	5.29	4.73	4.32	4.00	3.74	3.53	3.35	
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	6.27	5.43	4.86	4.44	4.11	3.84	3.62	3.44	
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	6.43	5.57	4.98	4.55	4.21	3.94	3.71	3.52	
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	6.59	5.70	5.10	4.66	4.31	4.03	3.80	3.61	
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	6.74	5.83	5.22	4.76	4.41	4.13	3.89	3.69	
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	6.88	5.96	5.33	4.87	4.51	4.22	3.97	3.77	
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	7.03	6.09	5.44	4.97	4.60	4.30	4.06	3.85	

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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

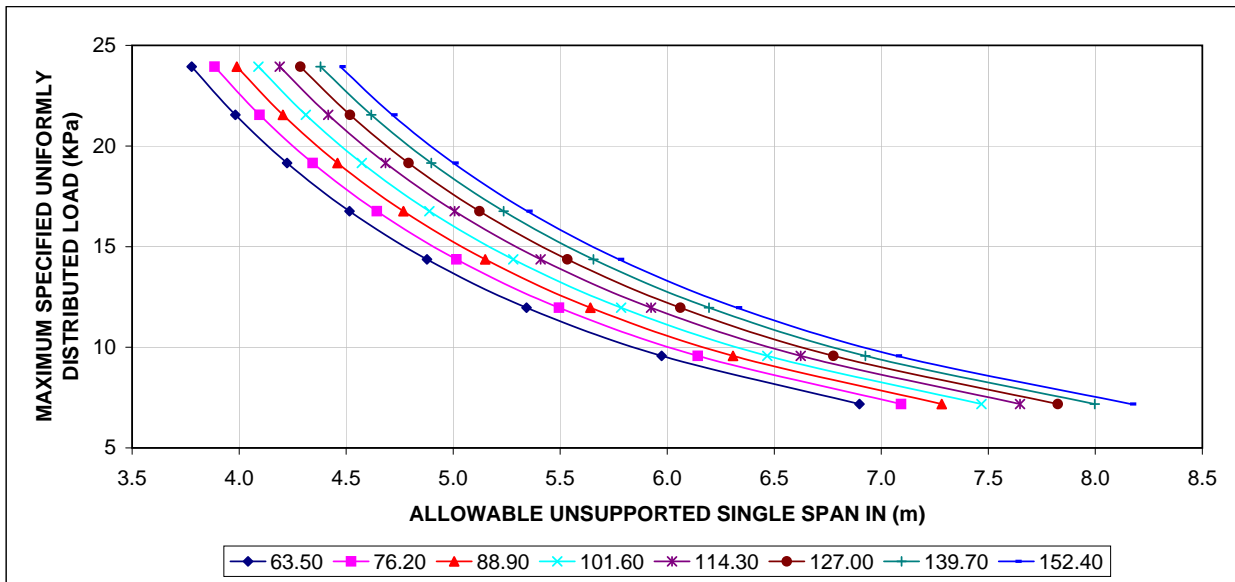
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	2.87	2.65	2.46	2.29	2.15	2.02	1.91	1.81
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.24	2.10	1.98	1.87	1.77	1.69	1.61	1.53
Q	TOTAL 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)							
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	6.90	5.97	5.34	4.88	4.52	4.22	3.98	3.78
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	7.09	6.14	5.49	5.02	4.64	4.34	4.10	3.88
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	7.28	6.31	5.64	5.15	4.77	4.46	4.20	3.99
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	7.47	6.47	5.78	5.28	4.89	4.57	4.31	4.09
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	7.65	6.62	5.92	5.41	5.01	4.68	4.42	4.19
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	7.82	6.78	6.06	5.53	5.12	4.79	4.52	4.29
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	8.00	6.93	6.19	5.66	5.24	4.90	4.62	4.38
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	8.17	7.07	6.33	5.77	5.35	5.00	4.71	4.47

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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

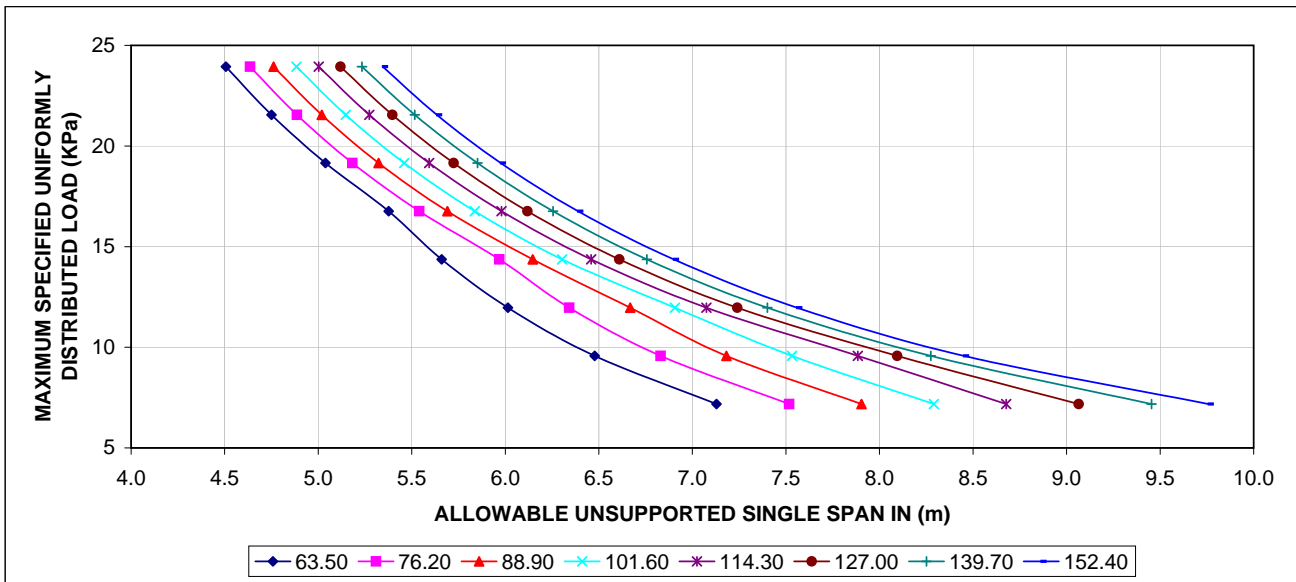
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	2.86	2.64	2.45	2.29	2.14	2.02	1.90	1.80
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.23	2.10	1.98	1.87	1.77	1.68	1.60	1.53
Q	TOTAL 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)							
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94
			1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	7.13	6.48	6.01	5.66	5.38
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	7.52	6.83	6.34	5.97	5.54	5.18	4.89	4.64
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	7.90	7.18	6.67	6.15	5.69	5.32	5.02	4.76
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	8.29	7.53	6.91	6.30	5.84	5.46	5.15	4.88
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	8.68	7.88	7.07	6.46	5.98	5.59	5.27	5.00
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	9.07	8.09	7.24	6.61	6.12	5.72	5.40	5.12
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	9.45	8.27	7.40	6.76	6.26	5.85	5.52	5.23
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	9.76	8.45	7.56	6.90	6.39	5.98	5.63	5.34

FIGURES TO BE MULTIPLIED BY (0.9) - SHOWN IN YELLOW - SEE MANUAL (CREEP STRESS)





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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

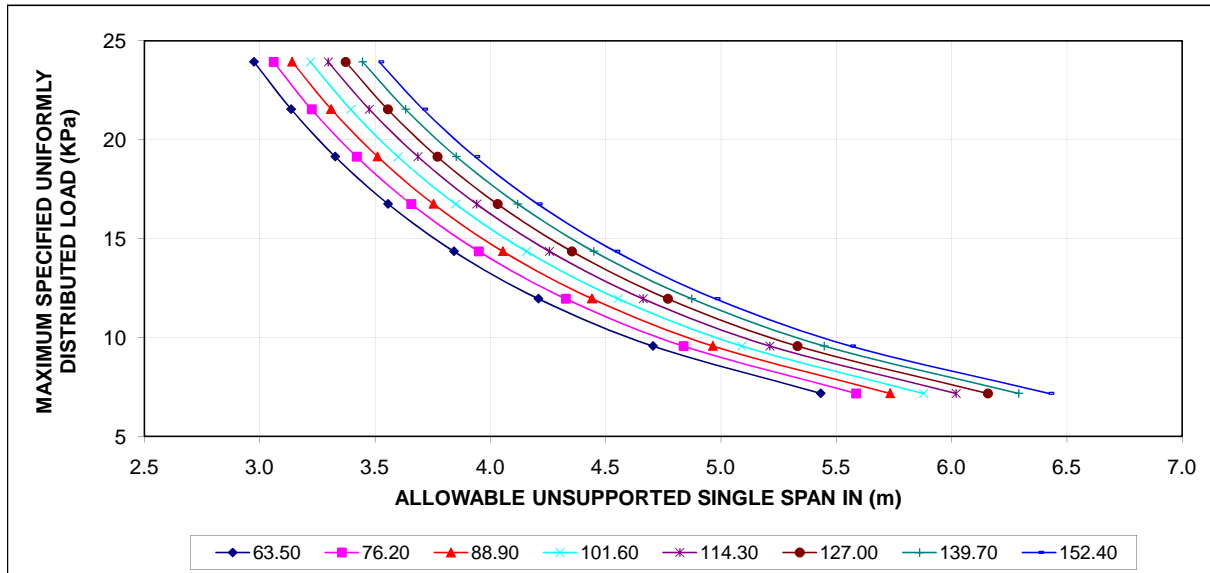
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	4.32	3.99	3.70	3.45	3.23	3.04	2.87	2.72
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.89	2.86	2.82	2.76	2.67	2.54	2.42	2.31
Q	TOTAL 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)							
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	5.43	4.71	4.21	3.84	3.56	3.33	3.14	2.98
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	5.59	4.84	4.33	3.95	3.66	3.42	3.23	3.06
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	5.73	4.97	4.44	4.05	3.75	3.51	3.31	3.14
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	5.88	5.09	4.55	4.16	3.85	3.60	3.39	3.22
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	6.02	5.21	4.66	4.26	3.94	3.69	3.48	3.30
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	6.16	5.33	4.77	4.35	4.03	3.77	3.55	3.37
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	6.29	5.45	4.87	4.45	4.12	3.85	3.63	3.45
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	6.42	5.56	4.98	4.54	4.21	3.93	3.71	3.52

Figures shown in blue to be multiplied by a factor of 0.9 - See Manual (Creep Stress)





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

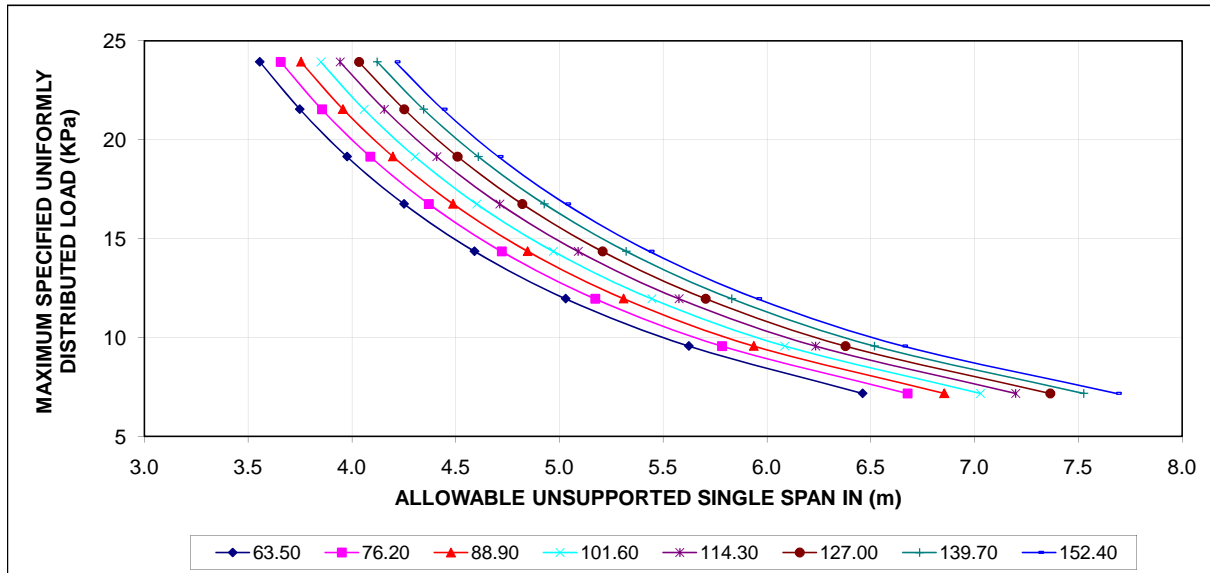
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	4.31	3.97	3.69	3.44	3.23	3.04	2.87	2.72
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.89	2.87	2.81	2.77	2.66	2.53	2.41	2.31
Q	TOTAL 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)							
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	6.46	5.62	5.03	4.59	4.25	3.98	3.75	3.56
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	6.68	5.78	5.17	4.72	4.37	4.09	3.85	3.66
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	6.85	5.94	5.31	4.85	4.49	4.20	3.96	3.75
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	7.03	6.09	5.44	4.97	4.60	4.30	4.06	3.85
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	7.20	6.23	5.58	5.09	4.71	4.41	4.16	3.94
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	7.36	6.38	5.70	5.21	4.82	4.51	4.25	4.03
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	7.53	6.52	5.83	5.32	4.93	4.61	4.35	4.12
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	7.69	6.66	5.95	5.43	5.03	4.71	4.44	4.21

Figures shown in blue to be multiplied by a factor of 0.9 - See Manual (Creep Stress)





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. (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)	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)	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)	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

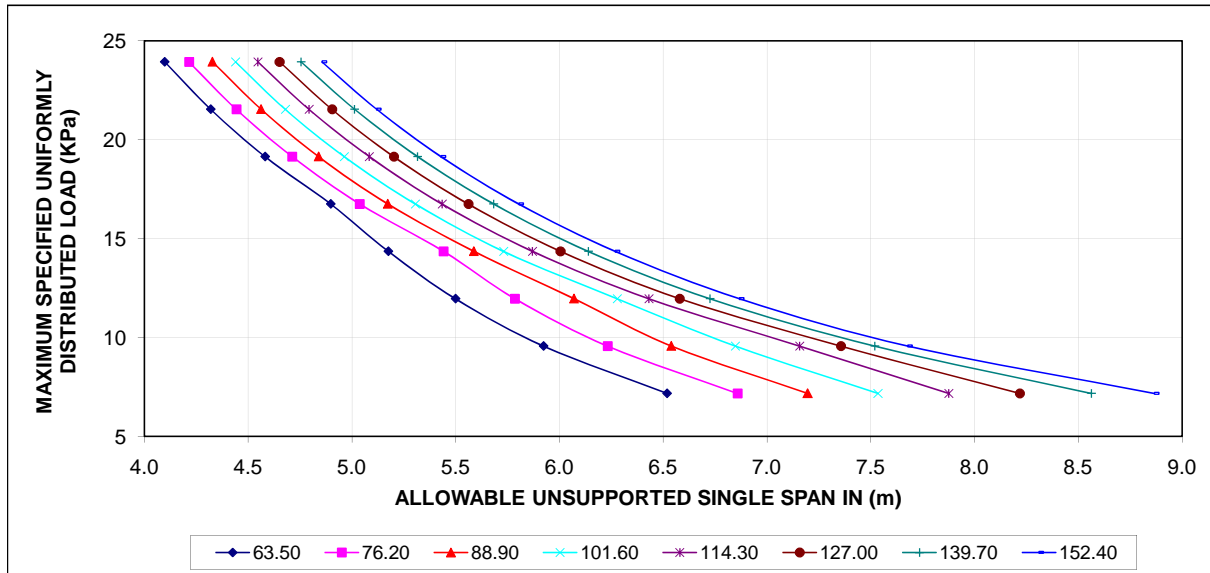
ITEM	DESCRIPTION	CONCRETE COVER ABOVE TOP OF METAL DECK (hf) OR (hc) (mm)							
		63.50	76.20	88.90	101.60	114.30	127.00	139.70	152.40
O	MAX. UNSHORED SPAN (C.L.1.006KPa).m.	4.30	3.97	3.68	3.44	3.22	3.03	2.86	2.71
P	MAX. UNSHORED SPAN (C.L.2.011KPa).m.	2.89	2.87	2.81	2.78	2.66	2.53	2.41	2.30
Q	TOTAL 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)							
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	6.52	5.92	5.50	5.18	4.90	4.58	4.32	4.10
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	6.86	6.23	5.79	5.44	5.04	4.71	4.44	4.21
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	7.20	6.54	6.07	5.59	5.17	4.84	4.56	4.33
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	7.54	6.85	6.28	5.73	5.31	4.96	4.68	4.44
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	7.88	7.16	6.43	5.87	5.43	5.08	4.79	4.55
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	8.22	7.36	6.58	6.01	5.56	5.20	4.90	4.65
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	8.56	7.52	6.73	6.14	5.68	5.32	5.01	4.76
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	8.87	7.68	6.87	6.27	5.80	5.43	5.12	4.86

Figures shown in blue to be multiplied by a factor of 0.9 - See Manual (Creep Stress)





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.	2.90	2.88	2.80	2.79	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)							
			7.182	9.576	11.97	14.364	16.758	19.152	21.546	23.94
1	ALLOW. SINGLE UNSUP. SPAN - m.	63.50	6.58	5.98	5.55	5.23	4.96	4.75	4.57	4.41
2	ALLOW. SINGLE UNSUP. SPAN - m.	76.20	6.93	6.30	5.85	5.51	5.23	5.00	4.81	4.63
3	ALLOW. SINGLE UNSUP. SPAN - m.	88.90	7.29	6.62	6.15	5.79	5.50	5.26	5.02	4.76
4	ALLOW. SINGLE UNSUP. SPAN - m.	101.60	7.64	6.94	6.45	6.07	5.76	5.46	5.15	4.88
5	ALLOW. SINGLE UNSUP. SPAN - m.	114.30	7.99	7.26	6.74	6.35	5.98	5.59	5.27	5.00
6	ALLOW. SINGLE UNSUP. SPAN - m.	127.00	8.35	7.59	7.04	6.61	6.12	5.72	5.39	5.12
7	ALLOW. SINGLE UNSUP. SPAN - m.	139.70	8.71	7.91	7.34	6.75	6.25	5.85	5.51	5.23
8	ALLOW. SINGLE UNSUP. SPAN - m.	152.40	9.06	8.24	7.56	6.90	6.39	5.97	5.63	5.34

Figures shown in blue to be multiplied by a factor of 0.9 - See Manual (Creep Stress)

