



BAILEY METAL PRODUCTS LIMITED

1 Caldari Road

Concord, ON L4K 3Z9

CANADA

(905) 738-9267

www.bmp-group.com

COMSLAB FLOOR SYSTEM

CSI Section:

05 00 00 Metals

05 31 00 Steel Decking

05 31 13 Steel Floor Decking

1.0 RECOGNITION

The ComSlab Floor System has been evaluated as floor deck in compliance with IBC Section 2210.1.1. The floor system has been evaluated for composition and structural performance. The ComSlab Floor System evaluated in this report complies with or is a satisfactory alternative to the following codes and regulations:

- 2018, 2015, and 2012 International Building Code® (IBC)
- 2018, 2015, and 2012 International Residential Code® (IRC)
- 2019 California Building Code (CBC) Title 24 Part 2 – attached supplement
- 2020 Florida Building Code, Building (FBC, Building) – attached supplement
- 2014 New York City Building Code (NYCBC) – attached supplement
- 2019 Chicago Building Code (Title 14B) – attached supplement

2.0 LIMITATIONS

Use of the ComSlab Floor System recognized in this report is subject to the following:

2.1 The CS210 and CS120 ComSlab deck systems are manufactured, identified, and installed in accordance with this report, the IBC, and ComSlab's published installation instructions. If there is a conflict between manufacturers' published installation instructions and this report, the more restrictive shall take precedence.

2.2 Concrete-filled sections shall not be used to support loads that are predominantly vibratory except where vibration effects are considered in the structural analyses.

2.3 Use as part of the lateral force-resisting system is beyond the scope of this report.

2.4 Penetrations in the floor system shall be determined by the structural designer and approved by the building official.

2.5 Special inspections shall be provided in accordance with Section 3.4 of this report.

2.6 Calculations and details demonstrating that the loads applied to the decks comply with this report shall be submitted to the building official for approval. Calculations and drawings shall be prepared, signed, and sealed by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.

2.7 Bundles marked in accordance with Section 5.0 of this report provide the material traceability required to conform to the requirements of Section 2202.1 of the 2018 IBC (Section 2203.1 of the 2015 and 2012 IBC) and, for applications under the 2012 IBC, Table 1705.2.2, Item 1 of the 2012 IBC.

3.0 PRODUCT USE

3.1 General: The ComSlab Floor System provides an in-place steel forming system and is used in conjunction with structural concrete topping and reinforcing bars as floors to support the code-required floor loads.

3.2 Design

3.2.1 General: Design for deck-only capacities shall comply with IBC Section 2210 and AISI S100. Section Properties and design base-metal thicknesses are provided in Tables 1, 2, 3, and 4 of this report. The system may also be used where an engineering design is submitted in accordance with Section R301.1.3 of the IRC.

3.2.2 Web Crippling: The ComSlab deck panels shall bear a minimum of 2 inches onto the support structure and a minimum of 4 inches at shoring supports unless a registered professional engineer designs adequate support to prevent web crippling from occurring. Tables 1, 2, 3, and 4 of this report are based on this support condition.

3.2.3 Vertical Loads: The composite deck, concrete fill, and concrete reinforcing resist out-of-plane vertical load and resistance factor design (LRFD) superimposed design live loads as specified in Tables 1, 2, 3, and 4 of this report. The tabulated loads have been reduced by the Load Factor of 1.6. All LRFD superimposed load (dead, live, wind, earthquake, etc.) combinations shall be determined by the structural designer in accordance with IBC Section 1605.2. The results shall be less than the corresponding tabulated design live load.

EXAMPLE:

Steel deck CS120 - Design thickness = 0.0375 in.;
yield stress = 50 ksi
Reinforcing steel - Bar number = 8; yield stress = 60 ksi
Concrete - Normal weight = 145 lb/ft³
Overall slab depth = 10.5 in.
Single span length = 24.0 ft

Applied Loads

Superimposed dead load

- a) Floor finish = 8.5 psf
b) Partitions = 14.5 psf
DL = 23.0 psf

Live load LL = 100 psf

$$\underline{\text{Total applied load}} = \{1.2/1.6(\text{DL}) + \text{LL}\} = \{0.75(23.0) + 100\} = \underline{117 \text{ psf}}$$

From the appropriate table on page 19 of this report, the maximum total load is 138 psf

When the load span exceeds the maximum unshored span in the tables, shoring shall be provided. The shoring shall be designed by the structural designer and shown at specified locations on the construction documents. Shoring removal shall comply with ACI 318-14 26.11.2 or ACI 318-11 6.2. Out-of-plane loads may include upward and downward vertical seismic effects, upward and downward loads due to wind, and downward loads due to transient effects and gravity. The deflections due to the dead weight of the concrete slab shall be determined in accordance with Eq.-1:

$$\Delta_{sw} = \frac{SWDP \times L^4}{10^6} \quad \text{Eq.-1}$$

Where:

Δ_{sw} = deflection due to slab weight, in.
 SWDP = slab weight deflection parameter from load table.
 L = load span, ft.

The maximum superimposed unfactored load that causes the concrete-filled deck to deflect to a specified limit shall be determined in accordance with Eq.-2:

$$W_d = \frac{SLDP \times 10^6}{DC \times (L)^3} \quad \text{Eq.-2}$$

Where:

w_d = Maximum deflection load, psf
 SLDP = Deflection parameter from load table,
 DC = Deflection constant such as 360
 L = Span length, feet

EXAMPLE:

Base steel thickness - 0.0375 in.
Bar number - 9
Slab depth - 10.5 in.
Span length, L, - 24 feet
From table on page 20, SLDP = 778
Assume DC = 360

Using Eq.-2:

$$w_d = \frac{778 \times 10^6}{360 \times (24)^3} = \underline{156 \text{ psf}}$$

For confirmation of values, the appropriate load tables shall be reviewed.

3.2.4 Support Connections: The connection of the deck and end closure to the structure shall be with welds, power-actuated fasteners, or self-drilling screws complying with Section 4.6 of this report and as designed and specified by the registered design professional based on requirements in ANSI/SDI NC. A minimum of one fastener per deck panel is required at each support. Fastener spacing shall be 24 inches on center maximum for supports parallel to the panels. Other fasteners suitable for the deck and supporting member shall be designed and specified by the registered design professional and approved by the building official.

3.3 Installation

3.3.1 Deck Panels: The deck panels shall be fastened to the structural supports with fasteners described in Sections 3.2.4 and 4.6 of this report. The ends of the deck shall bear a minimum of 2 inches onto the support structure. Supports shall be structural steel complying with IBC Chapter 22 and AISC 360; structural concrete complying with IBC Chapter 19 and ACI 318; or structural masonry complying with IBC Chapter 21 and TMS 402. The End Closure shall be fixed to the support structure prior to the decking being installed, using a minimum of one fastener per deck unit. In addition to the main structural fastening, the profile top flanges are fixed to the upper flange of the End Closure using power-actuated or self-drilling fasteners at one per profile. Fasteners shall be driven such that there is tight contact between the fastener head and the attached panels. The male trough flange shall overlap the female trough flange. The fasteners used to connect the side-laps of the panels to each other shall be minimum No. 14 ¼-14x1 self-drilling screws spaced 13.8 inches on center maximum. Every side-lap fastener shall include a ComSlab pre-punched side-lap washer.

3.3.2 Reinforcing: The reinforcing bars shall be placed in each rib profile, with a 1.57-inch clear space between the bottom flange and the underside of the bars. Shrinkage and temperature reinforcement shall be provided above the top of the deck for both directions in accordance with ACI 318-14 24.4 or ACI 318-11 7.12.



3.3.3 Concrete: Concrete placement shall comply with applicable provisions of the IBC and ACI 318. Before concrete placement, steel decking shall be clean and free of dirt, grease, and other debris. Shoring shall be in place before concrete placement at the locations as specified in the tables of this report. The bearing width for the shoring supports shall be 4 inches minimum. Care shall be taken to avoid heaping of concrete in any location. Tables 1, 2, 3, and 4 of this report include construction live loads of 20 psf or 150 plf.

3.4 Special Inspection

3.4.1 Concrete: Continuous and periodic special inspection for concrete and concrete reinforcement shall be in accordance with IBC Section 1705.3. The inspector's duties include sampling and testing, and verification of concrete mixes, reinforcement types and placement, concrete placement, observing sampling of concrete, field testing of fresh concrete, and the making of test specimens.

3.4.2 Steel Deck: Periodic special inspection for steel deck shall be in accordance with IBC Section 1705.2.2. The inspector's duties include verifying that the steel deck panels are of the type, size, grade, and condition specified on the approved plans and specifications and verifying the correct type, size, and location of fasteners, fastener holes, and installation for the type of connection are as specified on approved plans and specifications.

3.4.3 Statement of Special Inspections: A statement of special inspections shall be prepared by the registered design professional in charge and submitted to the building official as set forth in IBC Section 1704.3. The statement shall include the special inspector's duties noted in this section (Section 3.4 of this report).

4.0 PRODUCT DESCRIPTION

4.1 General: The ComSlab Floor System consists of cold-formed steel deck panels and end closures, concrete, reinforcing bars, welded wire reinforcement, and mechanical fasteners. The system complies with ANSI/SDI-NC.

4.2 ComSlab Deck Panels: The ComSlab deck panels are cold-formed from steel sheets into panels that resemble a fluted, flared, hat section with embossments in the webs and flange. The deck panels are available in three design thicknesses, 0.0375 inch, 0.0435 inch, and 0.0495 inch. The ends of the deck are provided with a separate end closure to provide additional web crippling strength and a permanent deck end closure to minimize grout loss during concrete placement. Steel sheets complying with ASTM A653 SS Grade 55 are cold-formed into deck shapes and closure elements having a minimum G90 galvanization coating (total on both surfaces). Panel dimensions and profiles are shown in the tables and figures of this report.

4.3 Concrete Fill: The deck panels are designed to be used with sand-lightweight or normal-weight concrete complying

with IBC Sections 1901 and 1904 and having a minimum 28-day compressive strength of 4,000 psi and proportioned in accordance with ACI 318. Normal-weight structural concrete [$w = 145$ to 150 pcf] shall have aggregate conforming to ASTM C33. Sand lightweight structural concrete [$w = 110$ to 115 pcf] shall have fine aggregate conforming to ASTM C33 and coarse aggregate conforming to ASTM C330. The concrete shall extend a minimum of 2.5 inches above the top surface of the steel deck panel and shall be reinforced with a single reinforcing bar in the bottom of each flute.

4.4 Reinforcing Bars: The reinforcing bars (rebar) shall comply with ASTM A615, A706, or A996, minimum Grade 60, and range in size from No. 3 to No. 11 ($\frac{3}{8}$ inch to $1\frac{3}{8}$ inch diameter).

4.5 Shrinkage and Temperature Control Reinforcement: The reinforcing in the top of the concrete is required for shrinkage and temperature control and shall be with a minimum area of 0.00075 times the area of concrete above the deck, and not less than 6×6 W1.4 x W1.4 steel welded wire plain reinforcement complying with ASTM A1064, placed above the top of the steel deck and positioned towards the top of the slab with a minimum $\frac{3}{4}$ inch cover. In lieu of steel welded wire, fibers may be substituted. The fibers shall be specifically recognized for use in concrete-filled steel decks by an evaluation report issued by an approved evaluation service agency.

4.6 Fasteners: The fasteners used to connect the side-laps of the panels to each other and the end closures to the structure and the deck shall be self-drilling screws complying with Section J4 of AISI S100 (Section E4 of AISI S100 for the 2015 and 2012 IBC) or an evaluation report issued by an approved evaluation service agency. The fasteners used to connect the deck panels to the supporting structure shall be welds, self-drilling screws, or power-actuated fasteners complying with Sections J2, J4, or J5, respectively, of AISI S100 (Sections E2, E4, or E5, respectively, of AISI S100 for the 2015 and 2012 IBC); or an evaluation report issued by an approved evaluation service agency. The capacity of the screws and power-actuated fasteners to the supporting material (steel, concrete, or masonry) shall be documented in an evaluation report issued by an approved evaluation service agency.

4.7 Accessories: End Closures are fabricated using G90 galvanized steel sheet, 0.060 inch in thickness. Side-lap Washers are fabricated using G60 galvanized steel sheet, 0.048 inch in thickness.

5.0 IDENTIFICATION

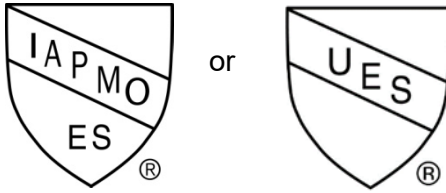
Each bundle of decking is marked with labels with the Bailey Metal Products Limited name, the deck type, the minimum base-metal thickness (uncoated), minimum specified yield strength, the Evaluation Report number ER-277 and one of the IAPMO Uniform ES Marks of Conformity as shown on the next page:



Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023



IAPMO UES ER-277

6.0 SUBSTANTIATING DATA

6.1 Manufacturer's descriptive literature and installation instructions.

6.2 Test reports from laboratories in compliance with ISO/IEC 17025.

6.3 Data in accordance with IAPMO UES EC 007-2020, Evaluation Criteria for Steel Composite, Non-Composite, and Roof Deck Construction.

6.4 Quality Assurance documentation.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on the ComSlab Floor System to assess its conformance to the codes shown in Section 1.0 of this report and documents the product's certification.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 1: CS210 LWC - #3 REBAR									
IMPERIAL UNITS									
Base Steel Thickness = 0.0375"									
Area of Steel Deck Included									
# 3 Rebar	Light Weight Concrete = 110 lb/ft ³								
SLAB WEIGHT (psf)	40.2	44.8	49.3	53.9	58.5	63.1	67.7	72.3	
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	13.6	13.0	12.5	12.1	11.7	11.3	11.0	10.6	
MAX. UNSHORED TWO SPAN (ft)	11.0	10.2	9.5	8.9	8.3	7.8	7.4	7.0	
MAX. UNSHORED THREE SPAN (ft)	12.5	11.6	10.8	10.1	9.5	8.9	8.4	8.0	
I _u (in ⁴)	47.2	54.0	61.2	69.0	77.5	86.6	97	108	
I _c (in ⁴)	18.6	20.7	22.9	25.3	27.9	30.6	33.4	36.4	
DEFLECTION PARAMETER (SLDP)	518	588	662	742	829	922	1023	1132	
DEFLECTION PARAMETER (SWDP)	0.649	0.632	0.615	0.596	0.576	0.555	0.534	0.513	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	184	195	206	216	227	238	249	259
	14.5	170	179	189	199	209	218	228	238
	15.0	157	166	174	183	192	201	210	219
	15.5	145	153	161	169	177	185	193	202
	16.0	134	141	149	156	164	171	178	186
	16.5	124	131	138	144	151	158	165	171
	17.0	115	121	128	134	140	146	152	158
	17.5	107	113	118	124	130	135	141	146
	18.0	100	105	110	115	120	125	130	135
	18.5	93	97	102	107	111	116	121	125
	19.0	86	91	95	99	103	107	112	116
	19.5	80	84	88	92	96	100	104	107
	20.0	75	78	82	85	89	92	96	99
	20.5	70	73	76	79	83	86	89	92
	21.0	65	68	71	74	77	79	82	85
	21.5	61	63	66	68	71	74	76	79
	22.0	57	59	61	64	66	68	70	73
	22.5	53	55	57	59	61	63	65	67
	23.0	49	51	53	55	57	58	60	62
	23.5	46	48	49	51	52	54	55	57
	24.0	43	44	46	47	48	50	51	52
	24.5		41	42	43	45	46	47	48
	25.0				40	41	42	43	44

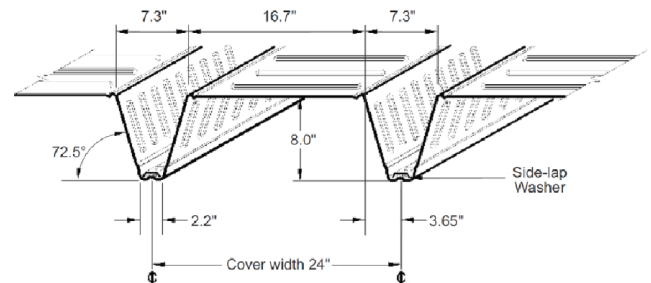
TABLE 1: CS210 LWC - #3 REBAR									
IMPERIAL UNITS									
Base Steel Thickness = 0.0435"									
Area of Steel Deck Included									
# 3 Rebar	Light Weight Concrete = 110 lb/ft ³								
SLAB WEIGHT (psf)	40.6	45.2	49.7	54.3	58.9	63.5	68.1	72.7	
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	16.5	15.9	15.3	14.8	14.3	13.8	13.4	13.0	
MAX. UNSHORED TWO SPAN (ft)	14.6	13.5	12.6	11.7	11.0	10.4	9.8	9.3	
MAX. UNSHORED THREE SPAN (ft)	16.5	15.3	14.3	13.3	12.5	11.8	11.2	10.6	
I _u (in ⁴)	48.1	55.1	62.4	70.4	79.0	88.3	99	110	
I _c (in ⁴)	20.2	22.6	25.1	27.8	30.6	33.7	36.9	40.3	
DEFLECTION PARAMETER (SLDP)	538	611	688	772	862	960	1065	1179	
DEFLECTION PARAMETER (SWDP)	0.643	0.625	0.608	0.589	0.569	0.548	0.527	0.506	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	213	227	240	253	267	280	294	307
	14.5	197	209	221	234	246	258	271	283
	15.0	182	193	204	216	227	238	249	261
	15.5	168	179	189	199	210	220	230	241
	16.0	156	165	175	185	194	204	213	223
	16.5	145	154	162	171	180	189	197	206
	17.0	135	143	151	159	167	175	183	191
	17.5	125	133	140	148	155	162	170	177
	18.0	117	124	130	137	144	151	158	164
	18.5	109	115	122	128	134	140	147	153
	19.0	102	108	113	119	125	131	136	142
	19.5	95	100	106	111	116	121	127	132
	20.0	89	94	99	103	108	113	118	123
	20.5	83	88	92	96	101	105	110	114
	21.0	78	82	86	90	94	98	102	106
	21.5	73	77	80	84	88	91	95	99
	22.0	68	72	75	78	82	85	89	92
	22.5	64	67	70	73	76	79	83	86
	23.0	60	63	65	68	71	74	77	80
	23.5	56	59	61	64	66	69	71	74
	24.0	52	55	57	59	62	64	66	69
	24.5	49	51	53	55	57	60	62	64
	25.0	46	48	50	52	53	55	57	59

TABLE 1: CS210 LWC - #3 REBAR									
IMPERIAL UNITS									
Base Steel Thickness = 0.0495"									
Area of Steel Deck Included									
# 3 Rebar	Light Weight Concrete = 110 lb/ft ³								
SLAB WEIGHT (psf)	41.0	45.6	50.1	54.7	59.3	63.9	68.5	73.1	
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	18.7	18.0	17.3	16.8	16.3	15.8	15.4	15.0	
MAX. UNSHORED TWO SPAN (ft)	18.6	17.2	16.0	15.0	14.1	13.3	12.6	11.9	
MAX. UNSHORED THREE SPAN (ft)	21.1	19.6	18.2	17.0	16.0	15.1	14.3	13.6	
I _u (in ⁴)	49.2	56.2	63.7	71.8	80.6	90.1	101	112	
I _c (in ⁴)	21.9	24.5	27.2	30.2	33.4	36.8	40.4	44.2	
DEFLECTION PARAMETER (SLDP)	559	635	716	803	897	998	1108	1226	
DEFLECTION PARAMETER (SWDP)	0.635	0.618	0.600	0.581	0.561	0.541	0.520	0.499	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	241	257	273	289	306	322	338	354
	14.5	223	237	252	267	282	297	312	326
	15.0	206	220	233	247	260	274	288	301
	15.5	191	203	216	229	241	254	266	279
	16.0	177	189	200	212	224	235	247	258
	16.5	165	176	186	197	208	218	229	240
	17.0	154	163	173	183	193	203	213	222
	17.5	143	152	161	170	180	189	198	207
	18.0	134	142	150	159	167	176	184	193
	18.5	125	133	140	148	156	164	172	179
	19.0	117	124	131	138	146	153	160	167
	19.5	109	116	123	129	136	143	149	156
	20.0	102	109	115	121	127	133	139	146
	20.5	96	102	107	113	119	124	130	136
	21.0	90	95	101	106	111	116	122	127
	21.5	84	89	94	99	104	109	114	119
	22.0	79	84	88	93	97	102	106	111
	22.5	74	79	83	87	91	95	99	104
	23.0	70	74	78	81	85	89	93	97
	23.5	66	69	73	76	80	83	87	90
	24.0	62	65	68	71	75	78	81	84
	24.5	58	61	64	67	70	73	76	79
	25.0	54	57	60	63	65	68	71	73

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 1: CS210 LWC - #3 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 1: CS210 LWC - #4 REBAR									
Base Steel Thickness = 0.0375"									
IMPERIAL UNITS									
Area of Steel Deck Included									
# 4 Rebar									
Light Weight Concrete = 110 lb/ft³									
SLAB WEIGHT (psf)	40.3	44.9	49.5	54.1	58.7	63.2	67.8	72.4	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	13.6	13.0	12.5	12.1	11.6	11.3	10.9	10.6	
MAX. UNSHORED TWO SPAN (ft)	11.0	10.2	9.5	8.9	8.3	7.8	7.4	7.0	
MAX. UNSHORED THREE SPAN (ft)	12.5	11.6	10.8	10.1	9.4	8.9	8.4	8.0	
I _u (in⁴)	48.3	55.2	62.6	70.6	79.2	88.6	99	110	
I _c (in⁴)	20.4	22.8	25.3	27.9	30.8	33.8	37.0	40.3	
DEFLECTION PARAMETER (SLDP)	540	614	692	775	865	963	1067	1181	
DEFLECTION PARAMETER (SWDP)	0.637	0.620	0.603	0.584	0.565	0.545	0.524	0.503	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	225	238	251	264	277	290	304	317
	14.5	207	219	231	243	255	268	280	292
	15.0	192	203	214	225	236	247	258	269
	15.5	178	188	198	208	218	228	238	248
	16.0	165	174	183	193	202	211	221	230
	16.5	153	162	170	179	187	196	204	213
	17.0	143	150	158	166	174	182	190	197
	17.5	133	140	147	154	162	169	176	183
	18.0	124	130	137	144	150	157	164	170
	18.5	116	122	128	134	140	146	152	158
	19.0	108	114	119	125	130	136	142	147
	19.5	101	106	111	116	122	127	132	137
	20.0	95	99	104	109	113	118	123	128
	20.5	89	93	97	102	106	110	114	119
	21.0	83	87	91	95	99	103	107	111
	21.5	78	81	85	89	92	96	99	103
	22.0	73	76	80	83	86	89	93	96
	22.5	68	71	74	77	80	83	86	89
	23.0	64	67	70	72	75	78	80	83
	23.5	60	63	65	68	70	72	75	77
	24.0	56	59	61	63	65	68	70	72
	24.5	53	55	57	59	61	63	65	67
	25.0	50	51	53	55	57	59	60	62
	25.5	47	48	50	51	53	54	56	58
	26.0	44	45	46	48	49	51	52	53
	26.5	41	42	43	44	46	47	48	49
	27.0			40	41	42	43	44	45
	27.5					40	41	42	
	28.0								

TABLE 1: CS210 LWC - #4 REBAR									
Base Steel Thickness = 0.0495"									
IMPERIAL UNITS									
Area of Steel Deck Included									
# 4 Rebar									
Light Weight Concrete = 110 lb/ft³									
SLAB WEIGHT (psf)	41.1	45.7	50.3	54.9	59.4	64.0	68.6	73.2	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	18.7	18.0	17.3	16.8	16.2	15.8	15.3	14.9	
MAX. UNSHORED TWO SPAN (ft)	18.5	17.2	16.0	15.0	14.1	13.3	12.6	11.9	
MAX. UNSHORED THREE SPAN (ft)	21.1	19.5	18.2	17.0	16.0	15.1	14.3	13.5	
I _u (in⁴)	50.2	57.4	65.1	73.4	82.3	92.0	103	114	
I _c (in⁴)	23.6	26.4	29.4	32.6	36.1	39.8	43.7	47.9	
DEFLECTION PARAMETER (SLDP)	581	659	744	834	932	1037	1150	1273	
DEFLECTION PARAMETER (SWDP)	0.625	0.607	0.589	0.570	0.551	0.531	0.510	0.490	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	281	299	318	336	355	374	392	411
	14.5	259	277	294	311	328	345	362	379
	15.0	240	256	272	288	304	319	335	351
	15.5	223	238	252	267	281	296	311	325
	16.0	208	221	234	248	261	275	288	302
	16.5	193	206	218	231	243	256	268	280
	17.0	180	192	203	215	226	238	249	261
	17.5	168	179	190	200	211	222	233	243
	18.0	158	167	177	187	197	207	217	227
	18.5	147	157	166	175	184	193	203	212
	19.0	138	147	155	164	172	181	189	198
	19.5	130	138	146	153	161	169	177	185
	20.0	122	129	136	144	151	159	166	173
	20.5	114	121	128	135	142	149	155	162
	21.0	108	114	120	127	133	139	146	152
	21.5	101	107	113	119	125	131	137	143
	22.0	95	101	106	112	117	123	128	134
	22.5	90	95	100	105	110	115	120	125
	23.0	85	89	94	99	103	108	113	118
	23.5	80	84	88	93	97	102	106	110
	24.0	75	79	83	87	91	95	100	104
	24.5	71	75	78	82	86	90	93	97
	25.0	67	70	74	77	81	84	88	91
	25.5	63	66	69	73	76	79	82	86
	26.0	59	62	65	68	71	74	77	80
	26.5	56	59	62	64	67	70	72	75
	27.0	53	55	58	60	63	65	68	70
	27.5	50	52	54	57	59	61	64	66
	28.0	47	49	51	53	55	57	59	62

TABLE 1: CS210 LWC - #4 REBAR									
Base Steel Thickness = 0.0435"					IMPERIAL UNITS				
# 4 Rebar					Area of Steel Deck Included				
					Light Weight Concrete = 110 lb/ft³				
SLAB WEIGHT (psf)	40.7	45.3	49.9	54.5	59.0	63.6	68.2	72.8	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	16.5	15.9	15.3	14.8	14.3	13.8	13.4	13.0	
MAX. UNSHORED TWO SPAN (ft)	14.5	13.5	12.5	11.7	11.0	10.4	9.8	9.3	
MAX. UNSHORED THREE SPAN (ft)	16.5	15.3	14.2	13.3	12.5	11.8	11.2	10.6	
I _u (in⁴)	49.2	56.3	63.8	71.9	80.7	90.2	101	112	
I _c (in⁴)	22.0	24.6	27.3	30.3	33.4	36.8	40.4	44.1	
DEFLECTION PARAMETER (SLDP)	560	636	717	804	898	999	1109	1227	
DEFLECTION PARAMETER (SWDP)	0.631	0.614	0.596	0.577	0.558	0.538	0.517	0.497	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	253	269	285	301	317	333	349	365
	14.5	234	248	263	278	292	307	322	336
	15.0	216	230	243	257	270	284	297	311
	15.5	201	213	225	238	250	263	275	287
	16.0	187	198	209	221	232	244	255	266
	16.5	174	184	195	205	216	226	237	247
	17.0	162	171	181	191	201	210	220	230
	17.5	151	160	169	178	187	196	205	214
	18.0	141	149	158	166	174	182	191	199
	18.5	132	139	147	155	162	170	178	185
	19.0	123	130	138	145	152	159	166	173
	19.5	116	122	129	135	142	148	155	161
	20.0	108	114	120	127	133	139	145	151
	20.5	102	107	113	118	124	130	135	141
	21.0	95	101	106	111	116	121	127	132
	21.5	90	94	99	104	109	114	118	123
	22.0	84	89	93	98	102	106	111	115
	22.5	79	83	87	91	95	100	104	108
	23.0	74	78	82	86	89	93	97	101
	23.5	70	74	77	80	84	87	91	94
	24.0	66	69	72	75	79	82	85	88
	24.5	62	65	68	71	74	76	79	82
	25.0	58	61	64	66	69	72	74	77
	25.5	55	57	60	62	65	67	69	72
	26.0	52	54	56	58	60	63	65	67
	26.5	49	51	53	55	56	58	60	62
27.0	46	47	49	51	53	55	56	58	
27.5	43	45	46	48	49	51	52	54	
28.0	40	42	43	45	46	47	49	50	



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 1: CS210 LWC - #5 REBAR									
Base Steel Thickness = 0.0375"									
IMPERIAL UNITS									
Area of Steel Deck Included									
# 5 Rebar									
Light Weight Concrete = 110 lb/ft³									
SLAB WEIGHT (psf)	40.5	45.1	49.7	54.3	58.8	63.4	68.0	72.6	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	14.1	13.5	12.9	12.4	12.0	11.6	11.3	11.0	
MAX. UNSHORED TWO SPAN (ft)	11.0	10.1	9.4	8.8	8.3	7.8	7.4	7.0	
MAX. UNSHORED THREE SPAN (ft)	12.5	11.5	10.7	10.0	9.4	8.9	8.4	8.0	
I _u (in⁴)	49.5	56.7	64.3	72.5	81.4	90.9	101	113	
I _c (in⁴)	22.6	25.3	28.1	31.1	34.3	37.7	41.3	45.1	
DEFLECTION PARAMETER (SLDP)	568	645	727	815	910	1012	1122	1241	
DEFLECTION PARAMETER (SWDP)	0.624	0.607	0.589	0.571	0.552	0.532	0.512	0.492	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	285	302	319	336	353	370	387	404
	14.5	263	279	294	310	326	341	357	373
	15.0	244	258	273	287	301	316	330	345
	15.5	227	240	253	266	280	293	306	319
	16.0	211	223	235	247	260	272	284	296
	16.5	196	208	219	230	241	253	264	275
	17.0	183	194	204	215	225	235	246	256
	17.5	171	181	190	200	210	219	229	239
	18.0	160	169	178	187	196	205	214	223
	18.5	150	158	167	175	183	191	200	208
	19.0	141	148	156	164	171	179	187	194
	19.5	132	139	146	153	160	167	175	182
	20.0	124	131	137	144	150	157	163	170
	20.5	117	123	129	135	141	147	153	159
	21.0	110	115	121	127	132	138	143	149
	21.5	103	108	114	119	124	129	135	140
	22.0	97	102	107	112	117	121	126	131
	22.5	92	96	101	105	109	114	118	123
	23.0	86	90	95	99	103	107	111	115
	23.5	81	85	89	93	97	100	104	108
	24.0	77	80	84	87	91	94	98	101
	24.5	72	76	79	82	85	89	92	95
	25.0	68	71	74	77	80	83	86	89
	25.5	65	67	70	73	75	78	81	84
	26.0	61	63	66	68	71	73	76	78
	26.5	58	60	62	64	67	69	71	73
	27.0	54	56	58	60	63	65	67	69
	27.5	51	53	55	57	59	61	62	64
	28.0	48	50	52	53	55	57	58	60

TABLE 1: CS210 LWC - #5 REBAR									
Base Steel Thickness = 0.0435"									
IMPERIAL UNITS									
Area of Steel Deck Included									
# 5 Rebar									
Light Weight Concrete = 110 lb/ft³									
SLAB WEIGHT (psf)	40.9	45.5	50.1	54.7	59.2	63.8	68.4	73.0	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	16.9	16.3	15.7	15.2	14.7	14.2	13.8	13.4	
MAX. UNSHORED TWO SPAN (ft)	14.5	13.4	12.5	11.7	11.0	10.4	9.8	9.3	
MAX. UNSHORED THREE SPAN (ft)	16.5	15.3	14.2	13.3	12.5	11.8	11.1	10.6	
I _u (in⁴)	50.4	57.7	65.5	73.8	82.8	92.6	103	115	
I _c (in⁴)	24.1	27.0	30.1	33.4	36.9	40.6	44.6	48.7	
DEFLECTION PARAMETER (SLDP)	587	666	752	843	942	1048	1162	1285	
DEFLECTION PARAMETER (SWDP)	0.619	0.601	0.583	0.565	0.545	0.526	0.506	0.486	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	314	334	354	374	394	414	434	454
	14.5	291	309	328	346	364	383	401	419
	15.0	270	287	304	321	337	354	371	388
	15.5	251	266	282	298	313	329	344	360
	16.0	233	248	262	277	291	306	320	335
	16.5	218	231	244	258	271	285	298	311
	17.0	203	216	228	240	253	265	278	290
	17.5	190	202	213	225	236	248	259	271
	18.0	178	189	199	210	221	231	242	253
	18.5	167	177	187	197	207	217	227	236
	19.0	157	166	175	184	194	203	212	221
	19.5	147	156	164	173	182	190	199	207
	20.0	138	146	154	162	170	178	186	194
	20.5	130	138	145	153	160	168	175	182
	21.0	123	130	137	143	150	157	164	171
	21.5	116	122	129	135	141	148	154	161
	22.0	109	115	121	127	133	139	145	151
	22.5	103	108	114	120	125	131	137	142
	23.0	97	102	108	113	118	123	128	134
	23.5	92	97	101	106	111	116	121	126
	24.0	87	91	96	100	105	109	114	118
	24.5	82	86	90	95	99	103	107	111
	25.0	77	81	85	89	93	97	101	105
	25.5	73	77	81	84	88	91	95	99
	26.0	69	73	76	79	83	86	89	93
	26.5	66	69	72	75	78	81	84	87
	27.0	62	65	68	71	73	76	79	82
	27.5	59	61	64	67	69	72	74	77
	28.0	56	58	60	63	65	68	70	72

TABLE 1: CS210 LWC - #5 REBAR					IMPERIAL UNITS					
Base Steel Thickness = 0.0495"					Area of Steel Deck Included					
# 5 Rebar					Light Weight Concrete = 110 lb/ft³					
SLAB WEIGHT (psf)	41.3	45.9	50.5	55.1	59.6	64.2	68.8	73.4		
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	19.1	18.5	17.8	17.2	16.7	16.2	15.8	15.4		
MAX. UNSHORED TWO SPAN (ft)	18.5	17.1	16.0	14.9	14.0	13.2	12.5	11.9		
MAX. UNSHORED THREE SPAN (ft)	21.0	19.5	18.1	17.0	16.0	15.1	14.2	13.5		
I _u (in⁴)	51.4	58.9	66.8	75.3	84.4	94.3	105	117		
I _c (in⁴)	25.7	28.8	32.1	35.6	39.4	43.5	47.8	52.3		
DEFLECTION PARAMETER (SLDP)	607	689	778	872	974	1084	1203	1330		
DEFLECTION PARAMETER (SWDP)	0.613	0.595	0.577	0.558	0.539	0.519	0.499	0.479		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING		MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	SPAN (ft)	14.0	343	366	389	411	434	457	480	502
	14.5	318	339	360	381	402	423	444	465	
	15.0	295	314	334	353	372	392	411	431	
	15.5	274	292	310	328	346	364	382	400	
	16.0	255	272	289	305	322	338	355	372	
	16.5	238	254	269	285	300	315	331	346	
	17.0	223	237	251	266	280	294	309	323	
	17.5	208	222	235	248	262	275	288	302	
	18.0	195	208	220	233	245	257	270	282	
	18.5	183	195	206	218	229	241	253	264	
	19.0	172	183	194	204	215	226	237	248	
	19.5	162	172	182	192	202	212	222	232	
	20.0	152	162	171	181	190	199	209	218	
	20.5	143	152	161	170	179	187	196	205	
	21.0	135	143	152	160	168	176	184	193	
	21.5	128	135	143	151	158	166	174	181	
	22.0	121	128	135	142	149	156	164	171	
	22.5	114	121	127	134	141	147	154	161	
	23.0	108	114	120	126	133	139	145	151	
	23.5	102	108	113	119	125	131	137	143	
	24.0	96	102	107	113	118	124	129	135	
	24.5	91	96	101	107	112	117	122	127	
	25.0	86	91	96	101	105	110	115	120	
	25.5	82	86	91	95	100	104	109	113	
26.0	77	82	86	90	94	98	102	107		
26.5	73	77	81	85	89	93	97	101		
27.0	70	73	77	80	84	88	91	95		
27.5	66	69	73	76	79	83	86	89		
28.0	63	66	69	72	75	78	81	84		



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 1: CS210 LWC - #6 REBAR					IMPERIAL UNITS				
Base Steel Thickness = 0.0375"					Area of Steel Deck Included				
# 6 Rebar					Light Weight Concrete = 110 lb/ft³				
SLAB WEIGHT (psf)	40.7	45.3	49.9	54.5	59.1	63.7	68.2	72.8	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	14.0	13.4	12.9	12.4	12.0	11.6	11.3	11.0	
MAX. UNSHORED TWO SPAN (ft)	10.9	10.1	9.4	8.8	8.3	7.8	7.4	7.0	
MAX. UNSHORED THREE SPAN (ft)	12.4	11.5	10.7	10.0	9.4	8.9	8.4	8.0	
I _u (in⁴)	51.0	58.4	66.3	74.7	83.9	93.7	104	116	
I _c (in⁴)	25.1	28.1	31.3	34.7	38.4	42.2	46.3	50.6	
DEFLECTION PARAMETER (SLDP)	599	681	768	861	962	1069	1185	1310	
DEFLECTION PARAMETER (SWDP)	0.610	0.592	0.574	0.556	0.537	0.518	0.499	0.479	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	345	366	387	408	429	449	470	491
	14.5	320	339	358	377	397	416	435	454
	15.0	297	314	332	350	368	385	403	421
	15.5	276	292	309	325	342	358	374	391
	16.0	257	272	287	303	318	333	348	363
	16.5	240	254	268	282	296	310	324	338
	17.0	224	237	250	263	276	289	303	316
	17.5	210	222	234	246	258	270	283	295
	18.0	197	208	219	231	242	253	264	276
	18.5	185	195	206	216	227	237	247	258
	19.0	173	183	193	203	212	222	232	242
	19.5	163	172	181	190	199	209	218	227
	20.0	154	162	170	179	187	196	204	213
	20.5	145	153	160	168	176	184	192	200
	21.0	136	144	151	159	166	173	181	188
	21.5	129	136	142	149	156	163	170	177
	22.0	122	128	134	141	147	154	160	166
	22.5	115	121	127	133	139	145	151	157
	23.0	109	114	120	125	131	136	142	148
	23.5	103	108	113	118	124	129	134	139
24.0	97	102	107	112	117	121	126	131	
24.5	92	97	101	106	110	115	119	124	
25.0	87	91	96	100	104	108	112	117	
25.5	83	87	90	94	98	102	106	110	
26.0	78	82	86	89	93	96	100	104	
26.5	74	78	81	84	88	91	94	98	
27.0	70	74	77	80	83	86	89	92	
27.5	67	70	73	75	78	81	84	87	
28.0	63	66	69	71	74	77	79	82	
28.5	60	63	65	67	70	72	75	77	
29.0	57	59	61	64	66	68	70	73	
29.5	54	56	58	60	62	64	66	68	
30.0	51	53	55	57	59	61	62	64	

TABLE 1: CS210 LWC - #6 REBAR					IMPERIAL UNITS																															
Base Steel Thickness = 0.0435"					Area of Steel Deck Included																															
# 6 Rebar					Light Weight Concrete = 110 lb/ft³																															
SLAB WEIGHT (psf)	41.1	45.7	50.3	54.9	59.5	64.1	68.6	73.2																												
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34																												
MAX. UNSHORED ONE SPAN (ft)	16.9	16.3	15.7	15.2	14.7	14.2	13.8	13.4																												
MAX. UNSHORED TWO SPAN (ft)	14.5	13.4	12.5	11.7	11.0	10.3	9.8	9.3																												
MAX. UNSHORED THREE SPAN (ft)	16.4	15.2	14.2	13.3	12.5	11.8	11.1	10.6																												
I _u (in⁴)	51.9	59.4	67.4	76.0	85.3	95.3	106	118																												
I _c (in⁴)	26.6	29.8	33.2	36.9	40.8	45.0	49.4	54.1																												
DEFLECTION PARAMETER (SLDP)	617	701	792	888	992	1104	1224	1353																												
DEFLECTION PARAMETER (SWDP)	0.605	0.587	0.569	0.550	0.532	0.512	0.493	0.474																												
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0																												
SHORING		MAXIMUM NOMINAL LOAD (psf)																																		
To be established by the designer.	SPAN (ft)	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0		
		374	347	322	300	279	261	244	228	214	201	189	178	168	158	149	141	133	126	119	113	107	101	96	91	87	82	78	74	70	67	64	60	57		
		398	369	342	318	297	277	259	242	227	213	200	189	178	167	158	149	141	133	126	119	113	107	101	96	91	87	82	78	74	70	67	64	60	57	
		422	391	363	337	314	293	274	256	240	225	212	200	187	177	167	157	148	140	132	125	119	112	106	101	96	91	86	81	77	73	69	66	63	60	
		446	413	383	356	332	309	289	270	253	238	223	210	197	186	175	165	156	147	139	132	124	118	111	106	101	95	90	85	81	76	72	68	65		
		469	435	403	375	349	325	304	284	266	250	234	220	207	195	184	173	164	154	146	138	130	123	117	110	104	99	94	89	84	79	75	71	67		
		493	457	423	394	366	342	319	298	279	262	246	231	217	204	193	181	171	162	153	144	136	129	122	115	109	103	97	92	87	83	78	74	70		
		517	479	444	412	384	358	334	312	292	274	257	242	227	214	201	190	179	169	159	150	142	134	127	120	113	107	101	96	91	86	81	77	72		
		541	500	464	431	401	374	349	326	305	286	269	252	237	223	210	198	186	176	166	157	148	140	132	125	118	111	105	99	94	89	84	79	75		
		565	523	486	453	421	391	366	342	319	298	279	262	246	231	217	204	193	181	171	162	153	144	136	129	122	115	109	103	97	92	87	83	78	74	
		589	546	508	474	441	410	384	358	334	312	292	274	257	242	227	214	201	190	179	169	159	150	142	134	127	120	113	107	101	96	91	86	81	77	
		613	569	530	495	461	430	403	376	351	326	305	286	269	252	237	223	210	198	186	176	166	157	148	140	132	125	118	111	105	99	94	89	84	79	
		637	592	552	516	482	450	423	395	369	344	322	301	282	265	249	234	220	207	195	184	173	164	154	146	138	130	123	117	110	104	99	94	89	84	79
		661	615	574	537	502	470	442	414	388	362	339	317	296	277	260	244	229	215	202	189	178	167	157	147	139	131	123	116	109	103	97	92	87	83	78
		685	638	596	558	522	489	460	431	404	378	354	331	309	289	270	253	238	223	210	197	186	175	165	155	146	137	129	121	114	107	101	96	91	86	81
		709	661	618	579	542	508	478	448	419	392	367	343	320	299	279	260	243	227	213	200	188	176	166	155	146	137	129	121	114	107	101	96	91	86	81
		733	684	640	600	562	527	496	466	436	407	380	355	331	309	289	269	250	233	219	205	192	180	169	158	148	139	131	123	115	108	102	97	92	87	83
		757	707	662	621	582	546	514	483	453	423	395	369	344	321	300	279	260	243	228	214	201	189	178	167	157	147	138	130	122	115	108	102	97	92	87
		781	730	684	642	602	565	532	500	469	439	410	383	357	333	310	289	269	250	233	219	205	192	180	169	158	148	139	131	123	115	108	102	97	92	87
		805	753	706	663	622	584	550	517	486	455	425	397	371	346	322	300	279	260	243	228	214	201	189	178	167	157	147	138	130	122	115	108	102	97	92
	829	776	728	684	643	604	569	536	504	473	442	414	387	361	336	312	291	271	253	238	224	210	197	185	174	163	153	144	135	126	118	110	103	98	93	
	853	800	750	705	664	624	588	554	521	489	458	429	402	375	349	324	302	281	262	245	230	216	202	189	177	166	155	145	136	127	118	110	103	98	93	
	877	823	772	726	684	644	607	572	538	505	473	444	416	389	362	337	314	293	273	255	239	225	211	198	186	174	163	153	144	135	126	118	110	103	98	
	901	846	794	747	704	663	625	589	554	520	487	457	428	401	374	348	323	300	279	260	244	229	215	201	188	176	164	154	145	136	127	118	110	103	98	
	925	869	816	768	724	683	644	607	572	538	504	471	442	414	387	360	334	311	290	271	254	239	225	211	198	186	174	163	153	144	135	126	118	110	103	
	949	892	838	789	744	702	662	624	588	553	518	485	455	426	398	371	345	320	298	277	258	242	227	213	200	187	175	164	154	145	136	127	118	110	103	
	973	915	860	810	764	721	680	641	603	567	531	496	464	434	405	377	350	324	302	281	262	245	230	216	202	189	177	165	155	145	136	127	118	110	103	
	997	938	882	831	784	740	698	658	619	582	545	509	475	444	415	386	358	332	310	289	269	251	235	220	206	192	179	167	156	146	137	128	119	111	104	
	1021	961	904	852	804	759	716	675	635	596	557	520	485	453	423	394	366	340	317	296	276	257	240	225	211	197	184	172	161	151	141	132	123	114	106	
	1045	984	926	873	824	778	734	692	651	611	571	532	495	461	430	400	371	343	318	296	276	257	240	225	211	197	184	172	161	151	141	132	123	114	106	
	1069	1007	948	894	844	797	752	709	668	627	587	547	508	470	438	407	377	349	323	301	281	262	244	228	213	200	186	174	162	151	141	132	123	114	106	
	1093	1030	970	915	864	816	769	724	682	641	600	560	520	481	448	416	386	358	332	310	289	269	250	234	219	205	191	178	166	154	143	133	124	115	107	
	1117	1053	992	936	884	835	787	741	698	656	615	574	534	494	454	421	391	362	335	312	291	271	252	236	221	207	193	180	168	156	145	135	126	117	109	
	1141	1076	1014	957	904	854	805	757	711	668	626	585	544	504	464	430	400	371	343	317	295	275	255	239	224	210	196	182	170	158	146	135	126	117	109	
	1165	1100	1037	979	925	874	824	775	727	683	641	600	559	518	478	443	412	383	355	328	305	284	264	248	232	218	203	189	176	164	152	141	132	123	114	
	1189	1123	1060	1001	946	894	843	793	744	695	653	612	571	530	489	453	422	393	364	337	314	293	273	256	240	225	211	196	183	170	158	146	135	126	117	
	1213	1146	1082	1022	966	913	861	810	760	710	668	627	586	544	503	462	430	400	371	343	317	295	275	258	242	226	212	197	183	171	159	147	136	127	118	
	1237	1169	1104	1043	986	932	879	827	776	725	683	642	600	558	516	475	442	412	383	355	328	305	284	266	250	234	219	204	190	177	165	153	142	133	124	
	1261	1192	1126	1064	1002	947	893	840	788	736	694	652	610	568	525	483	450	420	391	362	335	312	291	274	258	242	226	211	196	182	169	157	145	134	125	
	1285	1215	1148	1085	1022	966	911	857	804	751	700	657	615	572	529	486	453	423	393	364	337	314	293	275	259	243	227	212	197	182	169	157	145	134	125	

TABLE 1: CS210 LWC - #6 REBAR					IMPERIAL UNITS					
Base Steel Thickness = 0.0495"					Area of Steel Deck Included					
# 6 Rebar					Light Weight Concrete = 110 lb/ft³					
SLAB WEIGHT (psf)	41.5	46.1	50.7	55.3	59.9	64.4	69.0	73.6		
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	19.0	18.4	17.8	17.2	16.7	16.2	15.8	15.4		
MAX. UNSHORED TWO SPAN (ft)	18.4	17.1	15.9	14.9	14.0	13.2	12.5	11.9		
MAX. UNSHORED THREE SPAN (ft)	21.0	19.4	18.1	16.9	15.9	15.0	14.2	13.5		
I _u (in⁴)	52.8	60.5	68.7	77.4	86.9	97.0	108	120		
I _c (in⁴)	28.0	31.4	35.1	39.1	43.3	47.7	52.5	57.5		
DEFLECTION PARAMETER (SLDP)	636	723	817	916	1024	1139	1263	1397		
DEFLECTION PARAMETER (SWDP)	0.600	0.581	0.563	0.545	0.526	0.507	0.487	0.468		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING		MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	SPAN (ft)	14.0	402	429	456	482	509	536	562	589
	14.5	373	398	422	447	471	496	521	545	
	15.0	347	369	392	415	438	460	483	506	
	15.5	323	344	365	386	407	428	449	470	
	16.0	301	320	340	360	379	399	418	438	
	16.5	281	299	317	336	354	372	390	408	
	17.0	263	280	297	314	331	348	365	382	
	17.5	246	262	278	294	310	325	341	357	
	18.0	231	246	261	275	290	305	320	334	
	18.5	217	231	245	259	272	286	300	314	
	19.0	204	217	230	243	256	269	282	294	
	19.5	192	204	216	229	241	253	265	277	
	20.0	181	193	204	215	227	238	249	260	
	20.5	171	182	192	203	213	224	235	245	
	21.0	162	171	181	191	201	211	221	231	
	21.5	153	162	171	181	190	199	209	218	
22.0	144	153	162	171	179	188	197	206		
22.5	137	145	153	161	170	178	186	194		
23.0	130	137	145	153	160	168	176	183		
23.5	123	130	137	144	152	159	166	173		
24.0	116	123	130	137	144	150	157	164		
24.5	110	117	123	130	136	142	149	155		
25.0	105	111	117	123	129	135	141	147		
25.5	100	105	111	116	122	128	133	139		
26.0	95	100	105	110	116	121	126	132		
26.5	90	95	100	105	110	115	120	125		
27.0	85	90	95	99	104	109	113	118		
27.5	81	86	90	94	99	103	107	112		
28.0	77	81	85	89	94	98	102	106		
28.5	73	77	81	85	89	93	96	100		
29.0	70	73	77	81	84	88	91	95		
29.5	67	70	73	77	80	83	87	90		
30.0	63	66	70	73	76	79	82	85		



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 1: CS210 LWC - #7 REBAR										
Base Steel Thickness = 0.0375"										
# 7 Rebar										
IMPERIAL UNITS										
Area of Steel Deck Included										
Light Weight Concrete = 110 lb/ft ³										
SLAB WEIGHT (psf)	41.0	45.6	50.2	54.8	59.3	63.9	68.5	73.1		
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	14.0	13.4	12.9	12.4	12.0	11.6	11.3	11.0		
MAX. UNSHORED TWO SPAN (ft)	10.9	10.1	9.4	8.8	8.3	7.8	7.4	7.0		
MAX. UNSHORED THREE SPAN (ft)	12.4	11.5	10.7	10.0	9.4	8.8	8.4	7.9		
I _u (in ⁴)	52.6	60.3	68.5	77.2	86.7	96.8	108	120		
I _c (in ⁴)	27.9	31.2	34.9	38.7	42.9	47.2	51.8	56.7		
DEFLECTION PARAMETER (SLDP)	633	720	813	912	1019	1133	1256	1388		
DEFLECTION PARAMETER (SWDP)	0.595	0.577	0.559	0.541	0.522	0.504	0.485	0.466		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	16.0	310	329	348	366	385	404	422	441	
	16.5	290	307	325	342	359	377	394	412	
	17.0	271	288	304	320	336	352	368	385	
	17.5	254	269	285	300	315	330	345	360	
	18.0	239	253	267	281	295	309	323	337	
	18.5	224	238	251	264	277	290	303	316	
	19.0	211	223	236	248	260	272	285	297	
	19.5	199	210	222	233	245	256	268	279	
	20.0	188	198	209	220	230	241	252	263	
	20.5	177	187	197	207	217	227	237	247	
	21.0	167	177	186	195	205	214	224	233	
	21.5	158	167	176	185	193	202	211	220	
	22.0	150	158	166	174	183	191	199	208	
	22.5	142	150	157	165	173	180	188	196	
	23.0	134	142	149	156	163	171	178	185	
	23.5	127	134	141	148	155	161	168	175	
	24.0	121	127	134	140	146	153	159	166	
	24.5	115	121	127	133	139	145	151	157	
	25.0	109	115	120	126	131	137	143	148	
	25.5	104	109	114	119	125	130	135	140	
	26.0	98	103	108	113	118	123	128	133	
	26.5	94	98	103	107	112	117	121	126	
	27.0	89	93	98	102	106	111	115	119	
	27.5	84.d	89	93	97	101	105	109	113	
	28.0	80.d	84	88	92	96	100	103	107	
	28.5	76.d	80	84	87	91	94	98	101	
	29.0	72.d	76	80	83	86	90	93	96	
	29.5	68.d	73	76	79	82	85	88	91	
	30.0	65.d	69	72	75	78	81	83	86	
	30.5	62.d	66	68	71	74	76	79	82	
	31.0	59.d	63	65	67	70	72	75	77	
	31.5	56.d	60	62	64	66	69	71	73	
	32.0	54.d	57	59	61	63	65	67	69	
	32.5	51.d	54	56	58	60	62	63	65	
	33.0	49.d	51	53	55	56	58	60	62	

TABLE 1: CS210 LWC - #7 REBAR										
Base Steel Thickness = 0.0435"										
# 7 Rebar										
IMPERIAL UNITS										
Area of Steel Deck Included										
Light Weight Concrete = 110 lb/ft ³										
SLAB WEIGHT (psf)	41.4	46.0	50.6	55.2	59.7	64.3	68.9	73.5		
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	16.9	16.3	15.7	15.2	14.7	14.2	13.8	13.4		
MAX. UNSHORED TWO SPAN (ft)	14.4	13.3	12.4	11.6	10.9	10.3	9.8	9.3		
MAX. UNSHORED THREE SPAN (ft)	16.4	15.2	14.1	13.2	12.4	11.7	11.1	10.5		
I _u (in ⁴)	53.4	61.3	69.6	78.5	88.1	98.4	110	122		
I _c (in ⁴)	29.2	32.8	36.6	40.8	45.2	49.8	54.8	60.0		
DEFLECTION PARAMETER (SLDP)	650	740	836	938	1048	1166	1293	1429		
DEFLECTION PARAMETER (SWDP)	0.591	0.572	0.554	0.536	0.517	0.499	0.480	0.461		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	16.0	332	353	374	395	416	437	458	479	
	16.5	310	330	349	369	388	408	427	447	
	17.0	291	309	327	345	363	381	399	418	
	17.5	272	289	306	323	340	357	374	391	
	18.0	256	272	287	303	319	335	351	367	
	18.5	241	255	270	285	300	314	329	344	
	19.0	226	240	254	268	282	296	309	323	
	19.5	213	226	239	252	265	278	291	304	
	20.0	201	213	226	238	250	262	274	286	
	20.5	190	202	213	224	236	247	259	270	
	21.0	180	190	201	212	223	233	244	255	
	21.5	170	180	190	200	210	220	230	240	
	22.0	161	170	180	189	199	208	218	227	
	22.5	153	161	170	179	188	197	206	215	
	23.0	145	153	161	170	178	186	195	203	
	23.5	137	145	153	161	169	177	184	192	
	24.0	130	138	145	152	160	167	175	182	
	24.5	123.d	131	138	145	152	159	166	172	
	25.0	116.d	124	131	137	144	150	157	163	
	25.5	109.d	118	124	130	137	143	149	155	
	26.0	103.d	112	118	124	130	135	141	147	
	26.5	97.d	107	112	118	123	129	134	139	
	27.0	92.d	102	107	112	117	122	127	132	
	27.5	87.d	97	101	106	111	116	121	126	
	28.0	82.d	92	97	101	106	110	115	119	
	28.5	78.d	88	92	96	100	105	109	113	
	29.0	74.d	83	87	91	95	99	103	107	
	29.5	70.d	79	83	87	91	94	98	102	
	30.0	67.d	76	79	83	86	90	93	97	
	30.5	64.d	72	75	79	82	85	88	92	
	31.0	61.d	69	72	75	78	81	84	87	
	31.5	58.d	65	68	71	74	77	80	83	
	32.0	55.d	62	65	68	70	73	76	78	
	32.5	53.d	59	62	64	67	69	72	74	
	33.0	50.d	57	59	61	63	66	68	70	

TABLE 1: CS210 LWC - #7 REBAR					IMPERIAL UNITS				
Base Steel Thickness = 0.0495"					Area of Steel Deck Included				
# 7 Rebar					Light Weight Concrete = 110 lb/ft ³				
SLAB WEIGHT (psf)	41.8	46.4	51.0	55.6	60.1	64.7	69.3	73.9	
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	19.0	18.4	17.8	17.2	16.7	16.2	15.7	15.3	
MAX. UNSHORED TWO SPAN (ft)	18.4	17.0	15.9	14.9	14.0	13.2	12.5	11.8	
MAX. UNSHORED THREE SPAN (ft)	20.9	19.4	18.0	16.9	15.9	15.0	14.2	13.5	
I _u (in ⁴)	54.4	62.4	70.8	79.9	89.6	100.1	111	124	
I _c (in ⁴)	30.6	34.4	38.5	42.8	47.5	52.5	57.7	63.3	
DEFLECTION PARAMETER (SLDP)	669	761	860	965	1078	1200	1331	1471	
DEFLECTION PARAMETER (SWDP)	0.586	0.567	0.549	0.531	0.512	0.493	0.474	0.456	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	16.0	353	376	399	422	445	469	492	515
	16.5	330	352	373	395	416	438	459	481
	17.0	309	329	349	369	389	410	430	450
	17.5	290	309	328	346	365	384	402	421
	18.0	272	290	307	325	343	360	378	395
	18.5	256	273	289	305	322	338	355	371
	19.0	241	257	272	287	303	318	334	349
	19.5	227	242	256	271	285	300	314	328
	20.0	215	228	242	255	269	282	296	309
	20.5	203	216	228	241	254	266	279	292
	21.0	192	204	216	228	240	252	264	276
	21.5	182	193	204	215	227	238	249	260
	22.0	172	183	193	204	214	225	236	246
	22.5	163	173	183	193	203	213	223	233
	23.0	153.d	164	174	183	192	202	211	220
	23.5	143.d	156	165	173	182	191	200	209
	24.0	134.d	148	156	165	173	181	190	198
	24.5	126.d	140	148	156	164	172	180	188
	25.0	119.d	134	141	148	156	163	171	178
	25.5	112.d	127	134	141	148	155	162	169
	26.0	106.d	120.d	127	134	141	147	154	160
	26.5	100.d	114.d	121	128	134	140	146	152
	27.0	94.d	107.d	115	121	127	133	139	145
	27.5	89.d	102.d	110	115	121	127	132	138
	28.0	85.d	96.d	105	110	115	120	126	131
	28.5	80.d	91.d	100	105	110	114	119	124
	29.0	76.d	87.d	95	100	104	109	114	118
	29.5	72.d	82.d	90	95	99	104	108	112
30.0	69.d	78.d	86	90	94	99	103	107	
30.5	65.d	75.d	82	86	90	94	98	101	
31.0	62.d	71.d	78	82	86	89	93	96	
31.5	59.d	68.d	75	78	81	85	88	92	
32.0	57.d	65.d	71	74	78	81	84	87	
32.5	54.d	62.d	68	71	74	77	80	83	
33.0	52.d	59.d	65	67	70	73	76	79	



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

		IMPERIAL UNITS											
		Area of Steel Deck Included											
# 8 Rebar		Light Weight Concrete = 110 lb/ft³											
SLAB WEIGHT (psf)	41.3	45.9	50.5	55.1	59.7	64.2	68.8	73.4					
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34					
MAX. UNSHORED ONE SPAN (ft)	14.0	13.4	12.9	12.4	12.0	11.6	11.3	10.9					
MAX. UNSHORED TWO SPAN (ft)	10.8	10.0	9.4	8.8	8.2	7.8	7.3	7.0					
MAX. UNSHORED THREE SPAN (ft)	12.3	11.4	10.6	10.0	9.4	8.8	8.4	7.9					
I _u (in⁴)	54.2	62.3	70.8	79.9	89.7	100.2	112	124					
I _c (in⁴)	30.7	34.5	38.6	43.0	47.6	52.6	57.8	63.3					
DEFLECTION PARAMETER (SLDP)	668	762	861	967	1080	1202	1332	1472					
DEFLECTION PARAMETER (SWDP)	0.581	0.562	0.544	0.525	0.507	0.489	0.470	0.452					
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0					
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)											
To be established by the designer.	16.0	370	393	416	438	461	484	506	529				
	16.5	346	367	389	410	431	452	473	494				
	17.0	324	344	364	384	403	423	443	462				
	17.5	304	323	341	360	378	396	415	433				
	18.0	286	303	320	338	355	372	389	407				
	18.5	269	285	301	317	334	350	366	382				
	19.0	253	269	284	299	314	329	344	359				
	19.5	239	253	267	282	296	310	324	338				
	20.0	226	239	252	266	279	292	306	319				
	20.5	213	226	238	251	263	276	288	301				
	21.0	200.d	214	225	237	249	261	272	284				
	21.5	187.d	202	213	224	235	246	257	269				
	22.0	174.d	192	202	212	223	233	244	254				
	22.5	163.d	182	191	201	211	221	231	240				
	23.0	153.d	172	182	191	200	209	218	228				
	23.5	143.d	163.d	172	181	190	198	207	216				
	24.0	134.d	153.d	164	172	180	188	196	205				
	24.5	126.d	144.d	156	163	171	179	186	194				
	25.0	119.d	135.d	148	155	162	170	177	184				
	25.5	112.d	128.d	141	148	154	161	168	175				
	26.0	106.d	120.d	134	140	147	153	160	166				
	26.5	100.d	114.d	127	134	140	146	152	158				
	27.0	94.d	108.d	121	127	133	139	144	150				
	27.5	89.d	102.d	115.d	121	126	132	137	143				
	28.0	85.d	96.d	109.d	115	120	126	131	136				
	28.5	80.d	91.d	103.d	110	115	119	124	129				
	29.0	76.d	87.d	98.d	105	109	114	118	123				
	29.5	72.d	82.d	93.d	100	104	108	113	117				
	30.0	69.d	78.d	89.d	95	99	103	107	111				
	30.5	65.d	75.d	84.d	91	94	98	102	106				
	31.0	62.d	71.d	80.d	86	90	94	97	101				
	31.5	59.d	68.d	77.d	82	86	89	92	96				
	32.0	57.d	65.d	73.d	79	82	85	88	91				
	32.5	54.d	62.d	70.d	75	78	81	84	87				
	33.0	52.d	59.d	67.d	71	74	77	80	82				

		IMPERIAL UNITS											
		Area of Steel Deck Included											
# 8 Rebar		Light Weight Concrete = 110 lb/ft³											
SLAB WEIGHT (psf)	42.1	46.7	51.3	55.9	60.5	65.0	69.6	74.2					
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34					
MAX. UNSHORED ONE SPAN (ft)	19.0	18.4	17.7	17.2	16.6	16.2	15.7	15.3					
MAX. UNSHORED TWO SPAN (ft)	18.3	17.0	15.8	14.8	13.9	13.1	12.4	11.8					
MAX. UNSHORED THREE SPAN (ft)	20.8	19.3	18.0	16.8	15.8	14.9	14.1	13.4					
I _u (in⁴)	56.0	64.3	73.1	82.5	92.6	103.4	115	128					
I _c (in⁴)	33.4	37.5	42.0	46.9	52.0	57.5	63.4	69.6					
DEFLECTION PARAMETER (SLDP)	703	801	906	1018	1138	1266	1404	1552					
DEFLECTION PARAMETER (SWDP)	0.573	0.554	0.535	0.517	0.498	0.480	0.461	0.443					
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0					
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)											
To be established by the designer.	16.0	412	439	466	493	520	547	574	602				
	16.5	385	411	436	461	486	512	537	562				
	17.0	361	385	408	432	456	479	503	527				
	17.5	339	361	383	405	427	450	472	494				
	18.0	319	339	360	381	401	422	443	464				
	18.5	300	319	339	358	378	397	417	436				
	19.0	283	301	319	337	356	374	392	410				
	19.5	263.d	284	301	318	335	353	370	387				
	20.0	244.d	268	284	300	317	333	349	365				
	20.5	227.d	254	269	284	299	314	330	345				
	21.0	211.d	240	254	269	283	297	312	326				
	21.5	197.d	224.d	241	254	268	281	295	308				
	22.0	183.d	209.d	228	241	254	267	279	292				
	22.5	171.d	195.d	217	229	241	253	265	277				
	23.0	161.d	183.d	206	217	228	240	251	262				
	23.5	151.d	172.d	194.d	206	217	228	238	249				
	24.0	141.d	161.d	182.d	196	206	216	226	236				
	24.5	133.d	151.d	171.d	186	196	205	215	225				
	25.0	125.d	142.d	161.d	177	186	195	204	214				
	25.5	118.d	134.d	152.d	169	177	186	195	203				
	26.0	111.d	127.d	143.d	161	169	177	185	193				
	26.5	105.d	120.d	135.d	152.d	161	169	176	184				
	27.0	99.d	113.d	128.d	144.d	153	161	168	175				
	27.5	94.d	107.d	121.d	136.d	146	153	160	167				
	28.0	89.d	101.d	115.d	129.d	139	146	152	159				
	28.5	84.d	96.d	109.d	122.d	133	139	145	151				
	29.0	80.d	91.d	103.d	116.d	127	133	139	144				
	29.5	76.d	87.d	98.d	110.d	121	127	132	138				
	30.0	72.d	82.d	93.d	105.d	116	121	126	131				
	30.5	69.d	78.d	89.d	100.d	110	115	120	125				
	31.0	66.d	75.d	84.d	95.d	105	110	115	119				
	31.5	62.d	71.d	81.d	90.d	101	105	109	114				
	32.0	60.d	68.d	77.d	86.d	96	100	104	109				
	32.5	57.d	65.d	73.d	82.d	92	96	100	104				
	33.0	54.d	62.d	70.d	79.d	88	91	95	99				

TABLE 1: CS210 LWC - #8 REBAR					IMPERIAL UNITS																																																																																																																																																																																																																																																																																																																																																																																																						
Base Steel Thickness = 0.0435"					Area of Steel Deck Included																																																																																																																																																																																																																																																																																																																																																																																																						
# 8 Rebar					Light Weight Concrete = 110 lb/ft³																																																																																																																																																																																																																																																																																																																																																																																																						
SLAB WEIGHT (psf)	41.7	46.3	50.9	55.5	60.1	64.6	69.2	73.8																																																																																																																																																																																																																																																																																																																																																																																																			
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34																																																																																																																																																																																																																																																																																																																																																																																																			
MAX. UNSHORED ONE SPAN (ft)	16.8	16.2	15.7	15.2	14.6	14.2	13.8	13.4																																																																																																																																																																																																																																																																																																																																																																																																			
MAX. UNSHORED TWO SPAN (ft)	14.3	13.3	12.4	11.6	10.9	10.3	9.7	9.2																																																																																																																																																																																																																																																																																																																																																																																																			
MAX. UNSHORED THREE SPAN (ft)	16.3	15.1	14.1	13.2	12.4	11.7	11.1	10.5																																																																																																																																																																																																																																																																																																																																																																																																			
I _u (in⁴)	55.1	63.3	71.9	81.2	91.1	101.8	113	126																																																																																																																																																																																																																																																																																																																																																																																																			
I _c (in⁴)	32.0	36.0	40.3	44.9	49.8	55.0	60.6	66.4																																																																																																																																																																																																																																																																																																																																																																																																			
DEFLECTION PARAMETER (SLDP)	685	781	883	992	1108	1234	1368	1512																																																																																																																																																																																																																																																																																																																																																																																																			
DEFLECTION PARAMETER (SWDP)	0.578	0.558	0.540	0.521	0.503	0.484	0.466	0.448																																																																																																																																																																																																																																																																																																																																																																																																			
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0																																																																																																																																																																																																																																																																																																																																																																																																			
SHORING		MAXIMUM NOMINAL LOAD (psf)																																																																																																																																																																																																																																																																																																																																																																																																									
To be established by the designer.	SPAN (ft)	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0																																																																																																																																																																																																																																																																																																																																																																							
		391	366	343	322	303	285	268	253	238	221	205	191	179	167	156	147	138	129	122	115	108	102	97	92	87	82	78	74	70	67	64	61	58	55	53																																																																																																																																																																																																																																																																																																																																																																							
		416	389	365	342	321	303	285	269	254	240	227	215	204	190	178	167	157	148	140	131	123	117	110	104	99	94	89	84	80	77	73	70	67	64	61	58	55	53																																																																																																																																																																																																																																																																																																																																																																				
		441	413	386	362	341	320	302	285	269	254	240	227	215	204	194	184	175	166	158	150	142	135	129	123	118	112	106	101	96	92	88	84	81	78	75	71	68	65	63																																																																																																																																																																																																																																																																																																																																																																			
		466	436	408	383	360	338	318	300	283	268	253	240	227	215	204	194	184	175	166	158	150	143	136	130	124	118	112	106	102	97	93	89	85	81	77	73	70	67	64																																																																																																																																																																																																																																																																																																																																																																			
		491	459	430	403	379	356	335	316	298	282	266	252	239	226	214	203	193	184	175	166	158	150	143	136	130	124	118	112	107	103	99	95	91	87	83	80	77	74	71	68																																																																																																																																																																																																																																																																																																																																																																		
		516	482	452	423	398	374	352	332	313	295	279	264	250	237	225	213	202	192	183	174	165	156	148	141	134	127	120	114	109	104	100	96	92	88	84	80	77	74	71	68																																																																																																																																																																																																																																																																																																																																																																		
		541	506	473	444	417	392	369	346	326	307	290	274	259	245	232	220	209	199	190	181	172	163	155	147	140	133	126	119	113	108	103	99	95	91	87	83	80	77	74	71	68																																																																																																																																																																																																																																																																																																																																																																	
		566	529	495	464	436	409	385	361	340	320	302	285	269	254	240	227	215	204	194	184	175	166	158	150	143	136	130	124	118	112	107	103	99	95	91	87	83	80	77	74	71	68																																																																																																																																																																																																																																																																																																																																																																
		591	552	518	486	456	428	402	377	354	332	312	294	277	261	246	232	219	207	196	186	176	167	158	149	141	134	127	120	113	108	103	99	95	91	87	83	80	77	74	71	68																																																																																																																																																																																																																																																																																																																																																																	
		616	575	540	508	478	449	422	396	372	349	327	307	288	270	254	239	225	212	200	189	179	169	160	151	142	135	128	121	114	109	104	100	96	92	88	84	80	77	74	71	68																																																																																																																																																																																																																																																																																																																																																																	
		641	600	563	531	500	470	442	415	390	366	343	322	302	283	265	249	234	220	207	195	184	174	164	155	146	139	132	125	118	112	107	102	98	94	90	86	82	78	75	71	68																																																																																																																																																																																																																																																																																																																																																																	
		666	624	586	553	522	491	462	434	408	383	359	337	316	296	277	260	244	229	215	202	190	179	169	159	150	141	134	127	120	113	108	103	99	95	91	87	83	80	77	74	71	68																																																																																																																																																																																																																																																																																																																																																																
		691	648	609	575	544	513	483	454	427	401	376	353	331	310	290	272	255	240	225	212	200	188	177	167	157	148	140	132	125	118	112	107	102	98	94	90	86	82	78	75	71	68																																																																																																																																																																																																																																																																																																																																																																
		716	672	632	597	565	533	502	472	444	417	391	367	344	322	301	282	264	248	233	219	206	193	181	170	160	151	142	134	127	120	113	108	103	99	95	91	87	83	80	77	74	71	68																																																																																																																																																																																																																																																																																																																																																															
		741	696	655	619	586	553	521	490	461	433	405	379	354	330	307	286	267	250	235	221	207	194	181	169	158	148	139	131	123	116	110	104	99	95	91	87	83	80	77	74	71	68																																																																																																																																																																																																																																																																																																																																																																
		766	720	678	641	606	572	538	505	474	444	415	388	361	336	312	289	269	251	235	220	206	192	178	166	155	145	136	128	120	113	107	101	96	92	88	84	80	77	74	71	68																																																																																																																																																																																																																																																																																																																																																																	
		791	744	701	662	625	589	554	519	486	454	423	393	364	337	311	287	266	247	230	214	200	185	171	157	145	134	125	117	110	103	97	91	86	82	78	74	71	68	65	62	59	56	53	50	47	44	41	38	35	32	29	26	23	20	17	14	11	8	5	2	-1	-4	-7	-10	-13	-16	-19	-22	-25	-28	-31	-34	-37	-40	-43	-46	-49	-52	-55	-58	-61	-64	-67	-70	-73	-76	-79	-82	-85	-88	-91	-94	-97	-100	-103	-106	-109	-112	-115	-118	-121	-124	-127	-130	-133	-136	-139	-142	-145	-148	-151	-154	-157	-160	-163	-166	-169	-172	-175	-178	-181	-184	-187	-190	-193	-196	-199	-202	-205	-208	-211	-214	-217	-220	-223	-226	-229	-232	-235	-238	-241	-244	-247	-250	-253	-256	-259	-262	-265	-268	-271	-274	-277	-280	-283	-286	-289	-292	-295	-298	-301	-304	-307	-310	-313	-316	-319	-322	-325	-328	-331	-334	-337	-340	-343	-346	-349	-352	-355	-358	-361	-364	-367	-370	-373	-376	-379	-382	-385	-388	-391	-394	-397	-400	-403	-406	-409	-412	-415	-418	-421	-424	-427	-430	-433	-436	-439	-442	-445	-448	-451	-454	-457	-460	-463	-466	-469	-472	-475	-478	-481	-484	-487	-490	-493	-496	-499	-502	-505	-508	-511	-514	-517	-520	-523	-526	-529	-532	-535	-538	-541	-544	-547	-550	-553	-556	-559	-562	-565	-568	-571	-574	-577	-580	-583	-586	-589	-592	-595	-598	-601	-604	-607	-610	-613	-616	-619	-622	-625	-628	-631	-634	-637	-640	-643	-646	-649	-652	-655	-658	-661	-664	-667	-670	-673	-676	-679	-682	-685	-688	-691	-694	-697	-700	-703	-706	-709	-712	-715	-718	-721	-724	-727	-730	-733	-736	-739	-742	-745	-748	-751	-754	-757	-760	-763	-766	-769	-772	-775	-778	-781	-784	-787	-790	-793	-796	-799	-802	-805	-808	-811	-814	-817	-820	-823	-826	-829	-832	-835	-838	-841	-844	-847	-850	-853	-856	-859	-862	-865	-868	-871	-874	-877	-880	-883	-886	-889	-892	-895	-898	-901	-904	-907	-910	-913	-916	-919	-922	-925	-928	-931	-934	-937	-940	-943	-946	-949	-952	-955	-958	-961	-964	-967	-970	-973	-976	-979	-982	-985	-988	-991	-994	-997	-1000



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 1: CS210 LWC - #9 REBAR										
Base Steel Thickness = 0.0375"										
# 9 Rebar										
IMPERIAL UNITS										
Area of Steel Deck Included										
Light Weight Concrete = 110 lb/ft³										
SLAB WEIGHT (psf)	41.7	46.3	50.8	55.4	60.0	64.6	69.2	73.8		
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	13.9	13.3	12.8	12.4	11.9	11.6	11.2	10.9		
MAX. UNSHORED TWO SPAN (ft)	10.8	10.0	9.3	8.7	8.2	7.7	7.3	7.0		
MAX. UNSHORED THREE SPAN (ft)	12.3	11.4	10.6	9.9	9.3	8.8	8.3	7.9		
I _u (in⁴)	56.0	64.5	73.4	82.9	93.0	104.0	116	128		
I _c (in⁴)	33.8	38.0	42.6	47.5	52.8	58.3	64.2	70.4		
DEFLECTION PARAMETER (SLDP)	706	806	913	1026	1147	1277	1415	1564		
DEFLECTION PARAMETER (SWDP)	0.567	0.547	0.528	0.510	0.492	0.474	0.456	0.438		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	18.0	336.d	360	381	402	423	444	465	486	
	18.5	310.d	339	358	378	398	417	437	457	
	19.0	286.d	319	338	356	375	393	412	430	
	19.5	265.d	302	319	336	354	371	388	406	
	20.0	245.d	280.d	301	318	334	350	366	383	
	20.5	228.d	260.d	285	300	316	331	346	362	
	21.0	212.d	242.d	270	284	299	313	328	342	
	21.5	197.d	225.d	255.d	269	283	296	310	324	
	22.0	184.d	210.d	238.d	255	268	281	294	307	
	22.5	172.d	197.d	223.d	242	254	267	279	291	
	23.0	161.d	184.d	208.d	230	241	253	264	276	
	23.5	151.d	173.d	195.d	219	229	240	251	262	
	24.0	142.d	162.d	183.d	206.d	218	228	239	249	
	24.5	133.d	152.d	172.d	194.d	207	217	227	237	
	25.0	126.d	143.d	162.d	182.d	197	207	216	225	
	25.5	118.d	135.d	153.d	172.d	188	197	205	214	
	26.0	112.d	127.d	144.d	162.d	179	187	196	204	
	26.5	105.d	120.d	136.d	153.d	171	179	186	194	
	27.0	100.d	114.d	129.d	145.d	162.d	170	178	185	
	27.5	94.d	108.d	122.d	137.d	153.d	162	169	176	
	28.0	89.d	102.d	115.d	130.d	145.d	155	162	168	
	28.5	85.d	97.d	110.d	123.d	138.d	148	154	160	
	29.0	80.d	92.d	104.d	117.d	131.d	141	147	153	
	29.5	76.d	87.d	99.d	111.d	124.d	135	140	146	
	30.0	73.d	83.d	94.d	106.d	118.d	129	134	139	
	30.5	69.d	79.d	89.d	100.d	112.d	123	128	133	
	31.0	66.d	75.d	85.d	96.d	107.d	117	122	127	
	31.5	63.d	72.d	81.d	91.d	102.d	112	117	121	
	32.0	60.d	68.d	77.d	87.d	97.d	107	112	116	
	32.5	57.d	65.d	74.d	83.d	93.d	103	107	111	
	33.0	55.d	62.d	71.d	79.d	89.d	98	102	106	
	33.5	52.d	60.d	67.d	76.d	85.d	94	97	101	
	34.0	50.d	57.d	65.d	73.d	81.d	89	93	96	
	34.5	48.d	55.d	62.d	69.d	78.d	86	89	92	
	35.0	46.d	52.d	59.d	66.d	74.d	82	85	88	

TABLE 1: CS210 LWC - #9 REBAR										
Base Steel Thickness = 0.0435"										
# 9 Rebar										
IMPERIAL UNITS										
Area of Steel Deck Included										
Light Weight Concrete = 110 lb/ft³										
SLAB WEIGHT (psf)	42.1	46.7	51.2	55.8	60.4	65.0	69.6	74.2		
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	16.8	16.2	15.6	15.1	14.6	14.2	13.7	13.3		
MAX. UNSHORED TWO SPAN (ft)	14.3	13.2	12.3	11.6	10.9	10.3	9.7	9.2		
MAX. UNSHORED THREE SPAN (ft)	16.2	15.0	14.0	13.1	12.3	11.7	11.0	10.5		
I _u (in⁴)	56.9	65.4	74.4	84.1	94.4	105.5	117	130		
I _c (in⁴)	35.0	39.4	44.2	49.3	54.8	60.7	66.8	73.4		
DEFLECTION PARAMETER (SLDP)	722	825	933	1049	1174	1307	1449	1602		
DEFLECTION PARAMETER (SWDP)	0.564	0.544	0.525	0.507	0.488	0.470	0.452	0.434		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	18.0	344.d	378	400	423	446	469	491	514	
	18.5	317.d	356	377	398	420	441	462	484	
	19.0	293.d	334.d	355	375	396	416	436	456	
	19.5	271.d	309.d	335	354	373	392	411	430	
	20.0	251.d	286.d	317	335	353	370	388	406	
	20.5	233.d	266.d	300	317	333	350	367	384	
	21.0	217.d	247.d	280.d	300	316	331	347	363	
	21.5	202.d	230.d	261.d	284	299	314	329	344	
	22.0	188.d	215.d	244.d	269	283	298	312	326	
	22.5	176.d	201.d	228.d	256	269	282	296	309	
	23.0	165.d	188.d	213.d	240.d	256	268	281	293	
	23.5	155.d	177.d	200.d	225.d	243	255	267	279	
	24.0	145.d	166.d	188.d	211.d	231	242	254	265	
	24.5	136.d	156.d	176.d	198.d	220	230	241	252	
	25.0	128.d	147.d	166.d	187.d	209.d	219	230	240	
	25.5	121.d	138.d	156.d	176.d	197.d	209	219	228	
	26.0	114.d	130.d	148.d	166.d	185.d	199	208	217	
	26.5	108.d	123.d	139.d	157.d	175.d	190	199	207	
	27.0	102.d	116.d	132.d	148.d	166.d	181	189	198	
	27.5	96.d	110.d	125.d	140.d	157.d	173	181	188	
	28.0	91.d	104.d	118.d	133.d	149.d	165	172	180	
	28.5	87.d	99.d	112.d	126.d	141.d	157.d	165	172	
	29.0	82.d	94.d	106.d	120.d	134.d	149.d	157	164	
	29.5	78.d	89.d	101.d	114.d	127.d	141.d	150	156	
	30.0	74.d	85.d	96.d	108.d	121.d	134.d	143	149	
	30.5	71.d	81.d	91.d	103.d	115.d	128.d	137	143	
	31.0	67.d	77.d	87.d	98.d	109.d	122.d	131	136	
	31.5	64.d	73.d	83.d	93.d	104.d	116.d	125	130	
	32.0	61.d	70.d	79.d	89.d	99.d	111.d	120	125	
	32.5	58.d	67.d	76.d	85.d	95.d	106.d	115	119	
	33.0	56.d	64.d	72.d	81.d	91.d	101.d	110	114	
	33.5	53.d	61.d	69.d	78.d	87.d	97.d	105	109	
	34.0	51.d	58.d	66.d	74.d	83.d	92.d	100	104	
	34.5	49.d	56.d	63.d	71.d	79.d	88.d	96	99	
	35.0	47.d	53.d	60.d	68.d	76.d	85.d	92	95	

TABLE 1: CS210 LWC - #9 REBAR						IMPERIAL UNITS				
Base Steel Thickness = 0.0495"						Area of Steel Deck Included				
# 9 Rebar						Light Weight Concrete = 110 lb/ft³				
SLAB WEIGHT (psf)	42.5	47.1	51.6	56.2	60.8	65.4	70.0	74.6		
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	18.9	18.3	17.7	17.1	16.6	16.1	15.7	15.3		
MAX. UNSHORED TWO SPAN (ft)	18.2	16.9	15.8	14.8	13.9	13.1	12.4	11.8		
MAX. UNSHORED THREE SPAN (ft)	20.7	19.2	17.9	16.8	15.8	14.9	14.1	13.4		
I _u (in⁴)	57.8	66.4	75.6	85.3	95.8	107.0	119	132		
I _c (in⁴)	36.3	40.9	45.9	51.2	56.9	63.0	69.5	76.3		
DEFLECTION PARAMETER (SLDP)	740	844	956	1074	1202	1338	1484	1640		
DEFLECTION PARAMETER (SWDP)	0.561	0.540	0.521	0.503	0.484	0.466	0.448	0.430		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	18.0	352.d	395	419	444	468	493	517	542	
	18.5	325.d	370.d	395	418	441	464	487	510	
	19.0	300.d	342.d	372	394	416	437	459	480	
	19.5	277.d	316.d	352	372	392	413	433	453	
	20.0	257.d	293.d	332.d	351	371	390	409	428	
	20.5	239.d	272.d	308.d	333	351	369	387	405	
	21.0	222.d	253.d	287.d	315	332	349	366	383	
	21.5	207.d	236.d	267.d	298	315	331	347	363	
	22.0	193.d	220.d	249.d	280.d	298	314	329	344	
	22.5	180.d	206.d	233.d	262.d	283	298	312	326	
	23.0	169.d	193.d	218.d	245.d	269	283	296	310	
	23.5	158.d	181.d	205.d	230.d	256	269	282	295	
	24.0	149.d	170.d	192.d	216.d	241.d	256	268	280	
	24.5	140.d	159.d	180.d	203.d	227.d	243	255	267	
	25.0	132.d	150.d	170.d	191.d	214.d	232	243	254	
	25.5	124.d	141.d	160.d	180.d	201.d	221	231	242	
	26.0	117.d	133.d	151.d	170.d	190.d	211	221	230	
	26.5	110.d	126.d	143.d	160.d	179.d	200.d	210	220	
	27.0	104.d	119.d	135.d	152.d	170.d	189.d	201	210	
	27.5	99.d	113.d	128.d	143.d	160.d	179.d	192	200	
	28.0	94.d	107.d	121.d	136.d	152.d	169.d	183	191	
	28.5	89.d	101.d	115.d	129.d	144.d	161.d	175	182	
	29.0	84.d	96.d	109.d	122.d	137.d	152.d	167	174	
	29.5	80.d	91.d	103.d	116.d	130.d	145.d	160	167	
	30.0	76.d	87.d	98.d	111.d	124.d	138.d	153	159	
	30.5	72.d	83.d	94.d	105.d	118.d	131.d	145.d	152	
	31.0	69.d	79.d	89.d	100.d	112.d	125.d	138.d	146	
	31.5	66.d	75.d	85.d	95.d	107.d	119.d	132.d	139	
32.0	63.d	72.d	81.d	91.d	102.d	113.d	126.d	133		
32.5	60.d	68.d	77.d	87.d	97.d	108.d	120.d	127		
33.0	57.d	65.d	74.d	83.d	93.d	103.d	115.d	122		
33.5	55.d	62.d	71.d	79.d	89.d	99.d	110.d	117		
34.0	52.d	60.d	68.d	76.d	85.d	95.d	105.d	112		
34.5	50.d	57.d	65.d	73.d	81.d	91.d	100.d	107		
35.0	48.d	55.d	62.d	70.d	78.d	87.d	96.d	102		



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 1: CS210 LWC - #10 REBAR										
Base Steel Thickness = 0.0375"										
# 10 Rebar										
IMPERIAL UNITS										
Area of Steel Deck Included										
Light Weight Concrete = 110 lb/ft³										
SLAB WEIGHT (psf)	42.1	46.7	51.3	55.9	60.5	65.1	69.6	74.2		
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	13.9	13.3	12.8	12.3	11.9	11.5	11.2	10.9		
MAX. UNSHORED TWO SPAN (ft)	10.7	9.9	9.3	8.7	8.2	7.7	7.3	6.9		
MAX. UNSHORED THREE SPAN (ft)	12.2	11.3	10.5	9.9	9.3	8.8	8.3	7.9		
I _u (in⁴)	58.1	67.0	76.3	86.3	96.9	108.3	121	134		
I _c (in⁴)	37.2	42.0	47.2	52.7	58.6	64.9	71.6	78.6		
DEFLECTION PARAMETER (SLDP)	749	857	972	1093	1224	1363	1512	1671		
DEFLECTION PARAMETER (SWDP)	0.553	0.532	0.513	0.494	0.476	0.458	0.441	0.423		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	18.0	357.d	408.d	454	479	505	531	556	582	
	18.5	329.d	376.d	426.d	452	476	500	524	548	
	19.0	303.d	347.d	393.d	426	449	471	494	516	
	19.5	281.d	321.d	364.d	402	424	445	466	487	
	20.0	260.d	298.d	337.d	380.d	400	420	441	461	
	20.5	242.d	276.d	313.d	353.d	379	398	417	436	
	21.0	225.d	257.d	291.d	328.d	359	377	395	413	
	21.5	209.d	240.d	272.d	306.d	340	357	374	391	
	22.0	195.d	224.d	253.d	285.d	319.d	339	355	371	
	22.5	183.d	209.d	237.d	267.d	298.d	322	337	352	
	23.0	171.d	196.d	222.d	250.d	279.d	306	320	335	
	23.5	160.d	183.d	208.d	234.d	262.d	291	305	318	
	24.0	151.d	172.d	195.d	220.d	246.d	274.d	290	303	
	24.5	142.d	162.d	184.d	207.d	231.d	257.d	276	288	
	25.0	133.d	152.d	173.d	194.d	218.d	242.d	263	275	
	25.5	126.d	144.d	163.d	183.d	205.d	228.d	251	262	
	26.0	118.d	135.d	154.d	173.d	193.d	215.d	239.d	250	
	26.5	112.d	128.d	145.d	163.d	183.d	203.d	226.d	238	
	27.0	106.d	121.d	137.d	154.d	173.d	192.d	213.d	228	
	27.5	100.d	114.d	130.d	146.d	163.d	182.d	202.d	217	
	28.0	95.d	108.d	123.d	138.d	155.d	172.d	191.d	208	
	28.5	90.d	103.d	117.d	131.d	147.d	164.d	181.d	199	
	29.0	85.d	98.d	111.d	125.d	139.d	155.d	172.d	190	
	29.5	81.d	93.d	105.d	118.d	132.d	147.d	164.d	181.d	
	30.0	77.d	88.d	100.d	112.d	126.d	140.d	156.d	172.d	
	30.5	73.d	84.d	95.d	107.d	120.d	133.d	148.d	164.d	
	31.0	70.d	80.d	91.d	102.d	114.d	127.d	141.d	156.d	
	31.5	67.d	76.d	86.d	97.d	109.d	121.d	134.d	148.d	
	32.0	64.d	73.d	82.d	93.d	104.d	116.d	128.d	142.d	
	32.5	61.d	69.d	79.d	88.d	99.d	110.d	122.d	135.d	
	33.0	58.d	66.d	75.d	85.d	95.d	105.d	117.d	129.d	
	33.5	55.d	63.d	72.d	81.d	90.d	101.d	112.d	123.d	
	34.0	53.d	61.d	69.d	77.d	86.d	96.d	107.d	118.d	
	34.5	51.d	58.d	66.d	74.d	83.d	92.d	102.d	113.d	
	35.0	49.d	56.d	63.d	71.d	79.d	88.d	98.d	108.d	
	35.5	47.d	53.d	60.d	68.d	76.d	85.d	94.d	104.d	
	36.0	45.d	51.d	58.d	65.d	73.d	81.d	90.d	99.d	

TABLE 1: CS210 LWC - #10 REBAR										
Base Steel Thickness = 0.0495"										
# 10 Rebar										
IMPERIAL UNITS										
Area of Steel Deck Included										
Light Weight Concrete = 110 lb/ft³										
SLAB WEIGHT (psf)	42.9	47.5	52.1	56.7	61.3	65.9	70.4	75.0		
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	18.9	18.3	17.6	17.1	16.6	16.1	15.7	15.3		
MAX. UNSHORED TWO SPAN (ft)	18.1	16.8	15.7	14.7	13.8	13.1	12.4	11.7		
MAX. UNSHORED THREE SPAN (ft)	20.6	19.1	17.8	16.7	15.7	14.8	14.0	13.3		
I _u (in⁴)	59.8	68.9	78.4	88.7	99.6	111.3	124	137		
I _c (in⁴)	39.5	44.7	50.2	56.2	62.6	69.4	76.6	84.2		
DEFLECTION PARAMETER (SLDP)	781	893	1012	1139	1276	1421	1577	1744		
DEFLECTION PARAMETER (SWDP)	0.548	0.526	0.507	0.488	0.469	0.451	0.434	0.416		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	18.0	372.d	425.d	482.d	520	549	578	607	636	
	18.5	343.d	392.d	444.d	490	517	545	572	599	
	19.0	316.d	362.d	410.d	461.d	488	514	540	565	
	19.5	293.d	335.d	379.d	427.d	461	485	510	534	
	20.0	271.d	310.d	351.d	396.d	436	459	482	505	
	20.5	252.d	288.d	326.d	367.d	411.d	434	456	478	
	21.0	234.d	268.d	304.d	342.d	383.d	412	432	453	
	21.5	218.d	250.d	283.d	318.d	357.d	391	410	429	
	22.0	204.d	233.d	264.d	297.d	333.d	371.d	389	407	
	22.5	191.d	218.d	247.d	278.d	311.d	347.d	370	387	
	23.0	178.d	204.d	231.d	260.d	291.d	324.d	351	368	
	23.5	167.d	191.d	217.d	244.d	273.d	304.d	334	350	
	24.0	157.d	179.d	203.d	229.d	256.d	286.d	317.d	333	
	24.5	148.d	169.d	191.d	215.d	241.d	268.d	298.d	318	
	25.0	139.d	159.d	180.d	203.d	227.d	253.d	280.d	303	
	25.5	131.d	150.d	170.d	191.d	214.d	238.d	264.d	289	
	26.0	123.d	141.d	160.d	180.d	202.d	225.d	249.d	276.d	
	26.5	117.d	133.d	151.d	170.d	190.d	212.d	235.d	260.d	
	27.0	110.d	126.d	143.d	161.d	180.d	201.d	223.d	246.d	
	27.5	104.d	119.d	135.d	152.d	170.d	190.d	211.d	233.d	
	28.0	99.d	113.d	128.d	144.d	161.d	180.d	200.d	221.d	
	28.5	94.d	107.d	121.d	137.d	153.d	171.d	189.d	209.d	
	29.0	89.d	102.d	115.d	130.d	145.d	162.d	180.d	199.d	
	29.5	85.d	97.d	110.d	123.d	138.d	154.d	171.d	189.d	
	30.0	80.d	92.d	104.d	117.d	131.d	146.d	162.d	179.d	
	30.5	76.d	87.d	99.d	112.d	125.d	139.d	154.d	171.d	
	31.0	73.d	83.d	94.d	106.d	119.d	133.d	147.d	163.d	
	31.5	69.d	79.d	90.d	101.d	113.d	126.d	140.d	155.d	
	32.0	66.d	76.d	86.d	97.d	108.d	120.d	134.d	148.d	
	32.5	63.d	72.d	82.d	92.d	103.d	115.d	128.d	141.d	
	33.0	60.d	69.d	78.d	88.d	99.d	110.d	122.d	135.d	
	33.5	58.d	66.d	75.d	84.d	94.d	105.d	117.d	129.d	
	34.0	55.d	63.d	72.d	81.d	90.d	100.d	111.d	123.d	
	34.5	53.d	60.d	68.d	77.d	86.d	96.d	107.d	118.d	
	35.0	51.d	58.d	66.d	74.d	83.d	92.d	102.d	113.d	
	35.5	49.d	55.d	63.d	71.d	79.d	88.d	98.d	108.d	
	36.0	47.d	53.d	60.d	68.d	76.d	85.d	94.d	104.d	

TABLE 1: CS210 LWC - #10 REBAR										IMPERIAL UNITS		
Base Steel Thickness = 0.0435"										Area of Steel Deck Included		
# 10 Rebar										Light Weight Concrete = 110 lb/ft³		
SLAB WEIGHT (psf)	42.5	47.1	51.7	56.3	60.9	65.5	70.0	74.6				
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34				
MAX. UNSHORED ONE SPAN (ft)	16.8	16.1	15.6	15.1	14.6	14.1	13.7	13.3				
MAX. UNSHORED TWO SPAN (ft)	14.2	13.2	12.3	11.5	10.8	10.2	9.7	9.2				
MAX. UNSHORED THREE SPAN (ft)	16.1	15.0	14.0	13.1	12.3	11.6	11.0	10.4				
I _u (in⁴)	58.9	67.9	77.3	87.4	98.2	109.8	122	136				
I _c (in⁴)	38.3	43.3	48.7	54.4	60.6	67.1	74.1	81.4				
DEFLECTION PARAMETER (SLDP)	765	874	991	1116	1249	1391	1544	1707				
DEFLECTION PARAMETER (SWDP)	0.551	0.530	0.510	0.491	0.473	0.455	0.437	0.420				
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0				
SHORING		MAXIMUM NOMINAL LOAD (psf)										
To be established by the designer.	SPAN (ft)											
	18.0	364.4	416.4	472.4	500	527	555	582	609			
	18.5	335.3	384.4	435.4	471	497	523	548	574			
	19.0	310.0	354.4	401.4	444	469	493	517	541			
	19.5	286.8	328.4	371.4	418.4	443	465	488	511			
	20.0	265.0	304.4	344.4	387.4	419	440	462	483			
	20.5	247.4	282.0	320.4	360.4	396	416	437	457			
	21.0	229.4	262.4	297.4	335.4	375.4	395	414	433			
	21.5	214.4	244.4	277.4	312.4	349.4	374	392	410			
	22.0	199.4	228.4	259.4	291.4	326.4	355	372	390			
	22.5	186.4	213.4	242.4	272.4	307.4	337	354	370			
	23.0	175.4	200.4	226.4	255.4	285.4	318.4	336	352			
	23.5	164.4	187.4	212.4	239.4	267.4	298.4	320	334			
	24.0	154.4	176.4	199.4	224.4	251.4	280.4	304	318			
	24.5	144.4	165.4	187.4	211.4	236.4	263.4	290	303			
	25.0	136.4	155.4	176.4	198.4	222.4	247.4	274.4	289			
	25.5	128.4	146.4	166.4	187.4	209.4	233.4	259.4	276			
	26.0	121.4	138.4	157.4	176.4	197.4	220.4	244.4	263			
26.5	114.4	131.4	148.4	167.4	186.4	208.4	230.4	251				
27.0	108.4	123.4	140.4	157.4	176.4	196.4	218.4	240				
27.5	102.4	117.4	132.4	149.4	167.4	186.4	206.4	228.4				
28.0	97.4	111.4	125.4	141.4	158.4	176.4	195.4	216.4				
28.5	92.4	105.4	119.4	134.4	150.4	167.4	185.4	205.4				
29.0	87.4	100.4	113.4	127.4	142.4	158.4	176.4	194.4				
29.5	83.4	95.4	107.4	121.4	135.4	151.4	167.4	185.4				
30.0	79.4	90.4	102.4	115.4	128.4	143.4	159.4	176.4				
30.5	75.4	86.4	97.4	109.4	122.4	136.4	151.4	167.4				
31.0	71.4	82.4	92.4	104.4	116.4	130.4	144.4	159.4				
31.5	68.4	78.4	88.4	99.4	111.4	124.4	137.4	152.4				
32.0	65.4	74.4	84.4	95.4	106.4	118.4	131.4	145.4				
32.5	62.4	71.4	80.4	90.4	101.4	113.4	125.4	138.4				
33.0	59.4	68.4	77.4	86.4	97.4	108.4	119.4	132.4				
33.5	56.4	65.4	73.4	82.4	92.4	103.4	114.4	126.4				
34.0	54.4	62.4	70.4	79.4	88.4	98.4	109.4	121.4				
34.5	52.4	59.4	67.4	75.4	84.4	94.4	104.4	115.4				
35.0	50.4	57.4	64.4	72.4	81.4	90.4	100.4	111.4				
35.5	47.4	54.4	62.4	69.4	78.4	86.4	96.4	106.4				
36.0	46.4	52.4	59.4	66.4	74.4	83.4	92.4	102.4				



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 1: CS210 LWC - #11 REBAR									
Base Steel Thickness = 0.0375"									
# 11 Rebar									
IMPERIAL UNITS									
Area of Steel Deck Included									
Light Weight Concrete = 110 lb/ft³									
SLAB WEIGHT (psf)	42.6	47.2	51.8	56.4	61.0	65.6	70.1	74.7	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	13.8	13.3	12.7	12.3	11.9	11.5	11.2	10.9	
MAX. UNSHORED TWO SPAN (ft)	10.7	9.9	9.2	8.6	8.1	7.7	7.3	6.9	
MAX. UNSHORED THREE SPAN (ft)	12.1	11.2	10.5	9.8	9.2	8.7	8.3	7.8	
I _u (in⁴)	60.1	69.4	79.2	89.7	100.8	112.7	126	139	
I _c (in⁴)	40.5	45.9	51.7	57.9	64.5	71.6	79.0	86.9	
DEFLECTION PARAMETER (SLDP)	791	907	1030	1161	1301	1450	1609	1779	
DEFLECTION PARAMETER (SWDP)	0.541	0.519	0.499	0.480	0.461	0.443	0.426	0.409	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	SPAN (ft)	18.0	377.d	432.d	491.d	553.d	623	654	685
	18.5	347.d	398.d	452.d	509.d	558	587	616	645
	19.0	321.d	367.d	417.d	470.d	527.d	554	581	609
	19.5	296.d	340.d	386.d	435.d	487.d	524	549	575
	20.0	275.d	315.d	358.d	403.d	452.d	495	520	544
	20.5	255.d	293.d	332.d	374.d	419.d	467.d	492	515
	21.0	237.d	272.d	309.d	348.d	390.d	435.d	466	488
	21.5	221.d	254.d	288.d	325.d	364.d	405.d	443	463
	22.0	206.d	237.d	269.d	303.d	339.d	378.d	420.d	440
	22.5	193.d	221.d	251.d	283.d	317.d	354.d	392.d	418
	23.0	181.d	207.d	235.d	265.d	297.d	331.d	367.d	398
	23.5	169.d	194.d	220.d	249.d	278.d	310.d	344.d	378
	24.0	159.d	182.d	207.d	233.d	261.d	291.d	323.d	358.d
	24.5	149.d	171.d	195.d	219.d	246.d	274.d	304.d	336.d
	25.0	141.d	161.d	183.d	206.d	231.d	258.d	286.d	316.d
	25.5	133.d	152.d	173.d	195.d	218.d	243.d	270.d	298.d
	26.0	125.d	143.d	163.d	183.d	206.d	229.d	254.d	281.d
	26.5	118.d	135.d	154.d	173.d	194.d	216.d	240.d	266.d
	27.0	112.d	128.d	145.d	164.d	184.d	205.d	227.d	251.d
	27.5	106.d	121.d	138.d	155.d	174.d	194.d	215.d	238.d
	28.0	100.d	115.d	130.d	147.d	165.d	183.d	204.d	225.d
	28.5	95.d	109.d	124.d	139.d	156.d	174.d	193.d	214.d
	29.0	90.d	103.d	117.d	132.d	148.d	165.d	183.d	203.d
	29.5	86.d	98.d	111.d	126.d	141.d	157.d	174.d	193.d
	30.0	81.d	93.d	106.d	119.d	134.d	149.d	166.d	183.d
	30.5	77.d	89.d	101.d	114.d	127.d	142.d	158.d	174.d
	31.0	74.d	85.d	96.d	108.d	121.d	135.d	150.d	166.d
	31.5	70.d	81.d	92.d	103.d	116.d	129.d	143.d	158.d
	32.0	67.d	77.d	87.d	98.d	110.d	123.d	136.d	151.d
	32.5	64.d	73.d	83.d	94.d	105.d	117.d	130.d	144.d
	33.0	61.d	70.d	80.d	90.d	101.d	112.d	124.d	138.d
	33.5	58.d	67.d	76.d	86.d	96.d	107.d	119.d	131.d
	34.0	56.d	64.d	73.d	82.d	92.d	102.d	114.d	126.d
	34.5	54.d	61.d	70.d	79.d	88.d	98.d	109.d	120.d
	35.0	51.d	59.d	67.d	75.d	84.d	94.d	104.d	115.d
	35.5	49.d	56.d	64.d	72.d	81.d	90.d	100.d	110.d
	36.0	47.d	54.d	61.d	69.d	77.d	86.d	96.d	106.d

TABLE 1: CS210 LWC - #11 REBAR									
Base Steel Thickness = 0.0435"									
# 11 Rebar									
IMPERIAL UNITS									
Area of Steel Deck Included									
Light Weight Concrete = 110 lb/ft³									
SLAB WEIGHT (psf)	43.0	47.6	52.2	56.8	61.4	66.0	70.5	75.1	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	16.7	16.1	15.5	15.0	14.5	14.1	13.7	13.3	
MAX. UNSHORED TWO SPAN (ft)	14.1	13.1	12.2	11.4	10.8	10.2	9.6	9.1	
MAX. UNSHORED THREE SPAN (ft)	16.0	14.9	13.9	13.0	12.2	11.6	10.9	10.4	
I _u (in⁴)	60.9	70.3	80.2	90.8	102.1	114.1	127	141	
I _c (in⁴)	41.6	47.1	53.1	59.5	66.3	73.6	81.3	89.5	
DEFLECTION PARAMETER (SLDP)	806	924	1049	1182	1325	1477	1640	1813	
DEFLECTION PARAMETER (SWDP)	0.539	0.517	0.496	0.477	0.459	0.441	0.423	0.406	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	SPAN (ft)	18.0	384.d	440.d	500.d	563.d	614	647	711
	18.5	354.d	405.d	460.d	519.d	579	609	640	671
	19.0	326.d	374.d	425.d	479.d	536.d	575	604	633
	19.5	302.d	346.d	393.d	443.d	496.d	544	571	598
	20.0	280.d	321.d	364.d	410.d	460.d	513.d	540	566
	20.5	260.d	298.d	338.d	381.d	427.d	476.d	511	536
	21.0	242.d	277.d	315.d	355.d	397.d	443.d	485	508
	21.5	225.d	258.d	293.d	330.d	370.d	413.d	458.d	482
	22.0	210.d	241.d	274.d	308.d	346.d	385.d	428.d	458
	22.5	197.d	225.d	256.d	288.d	323.d	360.d	400.d	435
	23.0	184.d	211.d	239.d	270.d	302.d	337.d	374.d	414
	23.5	173.d	198.d	224.d	253.d	284.d	316.d	351.d	388.d
	24.0	162.d	186.d	211.d	238.d	266.d	297.d	329.d	364.d
	24.5	152.d	174.d	198.d	223.d	250.d	279.d	310.d	343.d
	25.0	143.d	164.d	186.d	210.d	236.d	263.d	291.d	322.d
	25.5	135.d	155.d	176.d	198.d	222.d	247.d	275.d	304.d
	26.0	127.d	146.d	166.d	187.d	209.d	233.d	259.d	287.d
	26.5	120.d	138.d	157.d	176.d	198.d	220.d	245.d	271.d
	27.0	114.d	130.d	148.d	167.d	187.d	208.d	231.d	256.d
	27.5	108.d	123.d	140.d	158.d	177.d	197.d	219.d	242.d
	28.0	102.d	117.d	133.d	150.d	168.d	187.d	207.d	229.d
	28.5	97.d	111.d	126.d	142.d	159.d	177.d	197.d	218.d
	29.0	92.d	105.d	119.d	135.d	151.d	168.d	187.d	207.d
	29.5	87.d	100.d	113.d	128.d	143.d	160.d	177.d	196.d
	30.0	83.d	95.d	108.d	122.d	136.d	152.d	169.d	187.d
	30.5	79.d	90.d	103.d	116.d	130.d	145.d	161.d	178.d
	31.0	75.d	86.d	98.d	110.d	124.d	138.d	153.d	169.d
	31.5	72.d	82.d	93.d	105.d	118.d	131.d	146.d	161.d
	32.0	68.d	78.d	89.d	100.d	112.d	125.d	139.d	154.d
	32.5	65.d	75.d	85.d	96.d	107.d	120.d	133.d	147.d
	33.0	62.d	71.d	81.d	91.d	102.d	114.d	127.d	140.d
	33.5	60.d	68.d	77.d	87.d	98.d	109.d	121.d	134.d
	34.0	57.d	65.d	74.d	84.d	94.d	104.d	116.d	128.d
	34.5	55.d	62.d	71.d	80.d	90.d	100.d	111.d	123.d
	35.0	52.d	60.d	68.d	77.d	86.d	96.d	106.d	117.d
	35.5	50.d	57.d	65.d	73.d	82.d	92.d	102.d	113.d
	36.0	48.d	55.d	62.d	70.d	79.d	88.d	98.d	108.d

TABLE 1: CS210 LWC - #11 REBAR					IMPERIAL UNITS					
Base Steel Thickness = 0.0495"					Area of Steel Deck Included					
# 11 Rebar					Light Weight Concrete = 110 lb/ft³					
SLAB WEIGHT (psf)	43.4	48.0	52.6	57.2	61.8	66.4	70.9	75.5		
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	18.8	18.2	17.6	17.0	16.5	16.1	15.6	15.2		
MAX. UNSHORED TWO SPAN (ft)	18.0	16.7	15.6	14.6	13.8	13.0	12.3	11.7		
MAX. UNSHORED THREE SPAN (ft)	20.5	19.0	17.7	16.6	15.6	14.8	14.0	13.3		
I _u (in⁴)	61.7	71.3	81.3	92.0	103.4	115.6	129	143		
I _c (in⁴)	42.8	48.4	54.6	61.2	68.2	75.7	83.7	92.1		
DEFLECTION PARAMETER (SLDP)	822	942	1069	1205	1350	1505	1671	1849		
DEFLECTION PARAMETER (SWDP)	0.537	0.514	0.493	0.474	0.456	0.438	0.420	0.403		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	MAXIMUM NOMINAL LOAD (psf)									
To be established by the designer.	SPAN (ft)	18.0	392.d	449.d	509.d	574.d	635	669	703	738
		18.5	361.d	413.d	469.d	529.d	592.d	631	663	695
		19.0	333.d	381.d	433.d	488.d	547.d	596	626	656
		19.5	308.d	353.d	400.d	451.d	506.d	563	592	620
		20.0	285.d	327.d	371.d	418.d	469.d	523.d	560	587
		20.5	265.d	304.d	345.d	388.d	435.d	485.d	530	556
		21.0	247.d	282.d	321.d	361.d	405.d	452.d	501.d	527
		21.5	230.d	263.d	299.d	337.d	377.d	421.d	467.d	500
		22.0	214.d	246.d	279.d	314.d	352.d	393.d	436.d	475
		22.5	200.d	230.d	261.d	294.d	329.d	367.d	408.d	451.d
		23.0	188.d	215.d	244.d	275.d	308.d	344.d	382.d	422.d
		23.5	176.d	202.d	229.d	258.d	289.d	322.d	358.d	396.d
		24.0	165.d	189.d	215.d	242.d	271.d	302.d	336.d	371.d
		24.5	155.d	178.d	202.d	228.d	255.d	284.d	316.d	349.d
		25.0	146.d	167.d	190.d	214.d	240.d	268.d	297.d	329.d
		25.5	138.d	158.d	179.d	202.d	226.d	252.d	280.d	310.d
		26.0	130.d	149.d	169.d	190.d	213.d	238.d	264.d	292.d
		26.5	123.d	141.d	160.d	180.d	202.d	225.d	249.d	276.d
		27.0	116.d	133.d	151.d	170.d	191.d	212.d	236.d	261.d
	27.5	110.d	126.d	143.d	161.d	180.d	201.d	223.d	247.d	
	28.0	104.d	119.d	135.d	152.d	171.d	190.d	211.d	234.d	
	28.5	99.d	113.d	128.d	145.d	162.d	181.d	201.d	222.d	
	29.0	94.d	107.d	122.d	137.d	154.d	171.d	190.d	211.d	
	29.5	89.d	101.d	116.d	130.d	146.d	163.d	181.d	200.d	
	30.0	85.d	97.d	110.d	124.d	139.d	155.d	172.d	190.d	
	30.5	80.d	92.d	105.d	118.d	132.d	147.d	164.d	181.d	
	31.0	77.d	88.d	100.d	112.d	126.d	140.d	156.d	172.d	
	31.5	73.d	84.d	95.d	107.d	120.d	134.d	149.d	164.d	
	32.0	70.d	80.d	91.d	102.d	114.d	128.d	142.d	157.d	
	32.5	67.d	76.d	86.d	97.d	109.d	122.d	135.d	150.d	
	33.0	64.d	73.d	83.d	93.d	104.d	116.d	129.d	143.d	
	33.5	61.d	70.d	79.d	89.d	100.d	111.d	123.d	137.d	
	34.0	58.d	67.d	76.d	85.d	95.d	106.d	118.d	131.d	
	34.5	56.d	64.d	72.d	82.d	91.d	102.d	113.d	125.d	
	35.0	53.d	61.d	69.d	78.d	87.d	98.d	108.d	120.d	
	35.5	51.d	58.d	66.d	75.d	84.d	93.d	104.d	115.d	
	36.0	49.d	56.d	64.d	72.d	80.d	90.d	100.d	110.d	



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 2: CS210 NWC - #3 REBAR									
IMPERIAL UNITS									
Base Steel Thickness = 0.0375"									
Area of Steel Deck Included									
# 3 Rebar									
Normal Weight Concrete = 145 lb/ft ³									
SLAB WEIGHT (psf)	52.1	58.1	64.1	70.2	76.2	82.3	88.3	94.4	
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	12.2	11.7	11.2	10.8	10.4	10.1	9.8	9.5	
MAX. UNSHORED TWO SPAN (ft)	9.1	8.4	7.7	7.2	6.7	6.3	6.0	5.6	
MAX. UNSHORED THREE SPAN (ft)	10.3	9.5	8.8	8.2	7.7	7.2	6.8	6.3	
I _u (in ⁴)	54.6	62.5	70.9	80.0	89.9	100.6	112	125	
I _c (in ⁴)	19.1	21.2	23.5	26.0	28.6	31.3	34.3	37.3	
DEFLECTION PARAMETER (SLDP)	579	658	743	834	932	1038	1153	1278	
DEFLECTION PARAMETER (SWDP)	0.728	0.709	0.690	0.669	0.647	0.624	0.600	0.575	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	175	185	195	204	214	223	233	243
	14.5	161	169	178	187	195	204	213	221
	15.0	148	155	163	171	179	187	194	202
	15.5	136	143	150	157	164	171	178	185
	16.0	125	131	138	144	150	157	163	169
	16.5	115	121	127	132	138	144	149	155
	17.0	106	111	116	122	127	132	137	142
	17.5	98	103	107	112	116	121	125	130
	18.0	91	95	99	103	107	111	115	119
	18.5	84	87	91	94	98	102	105	109
	19.0	77	80	84	87	90	93	96	99
	19.5	71	74	77	80	83	85	88	91
	20.0	66	68	71	73	76	78	80	83
	20.5	61	63	65	67	69	71	73	75
	21.0	56	58	60	62	63	65	67	69
	21.5	52	53	55	56	58	59	61	62
	22.0	48	49	50	51	53	54	55	56
	22.5	44	45	46	47	48	49	50	51
	23.0	40	41	42	43	43	44	45	45
	23.5								
	24.0								
	24.5								
	25.0								

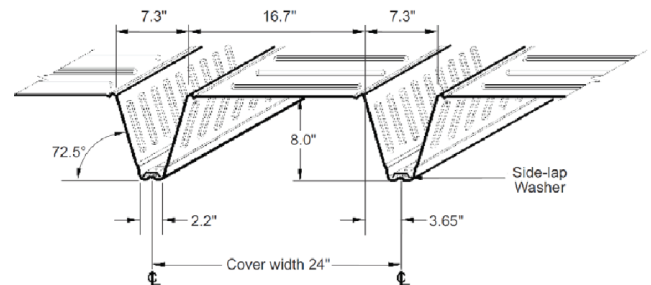
TABLE 2: CS210 NWC - #3 REBAR									
IMPERIAL UNITS									
Base Steel Thickness = 0.0435"									
Area of Steel Deck Included									
# 3 Rebar									
Normal Weight Concrete = 145 lb/ft ³									
SLAB WEIGHT (psf)	52.5	58.5	64.5	70.6	76.6	82.7	88.7	94.8	
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	15.0	14.3	13.7	13.2	12.7	12.3	11.9	11.6	
MAX. UNSHORED TWO SPAN (ft)	12.1	11.1	10.3	9.6	8.9	8.4	7.9	7.5	
MAX. UNSHORED THREE SPAN (ft)	13.7	12.6	11.7	10.9	10.2	9.5	9.0	8.5	
I _u (in ⁴)	55.5	63.6	72.2	81.4	91.5	102.4	114	127	
I _c (in ⁴)	20.8	23.2	25.8	28.5	31.5	34.6	37.9	41.4	
DEFLECTION PARAMETER (SLDP)	600	682	770	865	967	1078	1197	1327	
DEFLECTION PARAMETER (SWDP)	0.721	0.702	0.682	0.661	0.639	0.616	0.592	0.568	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	204	216	229	241	254	266	278	291
	14.5	188	199	210	221	233	244	255	266
	15.0	173	183	193	203	214	224	234	244
	15.5	159	169	178	187	196	206	215	224
	16.0	147	155	164	172	181	189	198	206
	16.5	136	144	151	159	167	174	182	189
	17.0	126	133	140	147	154	160	167	174
	17.5	116	123	129	135	142	148	154	161
	18.0	108	114	119	125	131	136	142	148
	18.5	100	105	110	116	121	126	131	136
	19.0	93	97	102	107	111	116	121	125
	19.5	86	90	95	99	103	107	111	115
	20.0	80	84	87	91	95	99	103	106
	20.5	74	78	81	84	88	91	94	98
	21.0	69	72	75	78	81	84	87	90
	21.5	64	67	69	72	74	77	80	82
	22.0	59	62	64	66	69	71	73	75
	22.5	55	57	59	61	63	65	67	69
	23.0	51	53	54	56	58	60	61	63
	23.5	47	49	50	51	53	54	56	57
	24.0	43	45	46	47	48	50	51	52
	24.5	40	41	42	43	44	45	46	47
	25.0					40	41	42	42

TABLE 2: CS210 NWC - #3 REBAR									
IMPERIAL UNITS									
Base Steel Thickness = 0.0495"									
Area of Steel Deck Included									
# 3 Rebar									
Normal Weight Concrete = 145 lb/ft ³									
SLAB WEIGHT (psf)	52.9	58.9	64.9	71.0	77.0	83.1	89.1	95.2	
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	17.0	16.3	15.7	15.1	14.6	14.1	13.7	13.3	
MAX. UNSHORED TWO SPAN (ft)	15.4	14.2	13.1	12.2	11.4	10.7	10.1	9.6	
MAX. UNSHORED THREE SPAN (ft)	17.5	16.1	14.9	13.9	13.0	12.2	11.5	10.9	
I _u (in ⁴)	56.6	64.8	73.5	82.9	93.1	104.2	116	129	
I _c (in ⁴)	22.5	25.2	28.0	31.1	34.4	37.9	41.6	45.5	
DEFLECTION PARAMETER (SLDP)	622	707	799	897	1003	1118	1242	1376	
DEFLECTION PARAMETER (SWDP)	0.713	0.694	0.674	0.653	0.631	0.608	0.585	0.561	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	232	247	262	277	292	307	322	337
	14.5	214	227	241	255	269	282	296	310
	15.0	197	210	222	235	247	260	272	285
	15.5	182	193	205	216	228	239	251	262
	16.0	168	179	189	200	210	221	231	242
	16.5	156	166	175	185	194	204	213	223
	17.0	145	153	162	171	180	188	197	206
	17.5	134	142	150	158	166	174	182	190
	18.0	125	132	139	147	154	161	169	176
	18.5	116	123	129	136	143	149	156	163
	19.0	108	114	120	126	132	138	145	151
	19.5	100	106	112	117	123	128	134	139
	20.0	93	99	104	109	114	119	124	129
	20.5	87	92	96	101	106	110	115	119
	21.0	81	85	89	94	98	102	106	110
	21.5	76	79	83	87	91	94	98	102
	22.0	70	74	77	81	84	87	91	94
	22.5	66	69	72	75	78	81	84	87
	23.0	61	64	66	69	72	75	77	80
	23.5	57	59	62	64	66	69	71	74
	24.0	53	55	57	59	61	63	66	68
	24.5	49	51	53	55	57	58	60	62
	25.0	46	47	49	50	52	54	55	57

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 2: CS210 NWC - #3 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 2: CS210 NWC - #4 REBAR									
Base Steel Thickness = 0.0375"									
IMPERIAL UNITS									
# 4 Rebar									
Normal Weight Concrete = 145 lb/ft³									
SLAB WEIGHT (psf)	52.2	58.3	64.3	70.3	76.4	82.4	88.5	94.5	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	12.2	11.7	11.2	10.8	10.4	10.1	9.8	9.5	
MAX. UNSHORED TWO SPAN (ft)	9.1	8.4	7.7	7.2	6.7	6.3	6.0	5.6	
MAX. UNSHORED THREE SPAN (ft)	10.3	9.5	8.8	8.2	7.6	7.2	6.8	6.3	
I _u (in⁴)	55.6	63.7	72.3	81.6	91.7	102.6	115	127	
I _c (in⁴)	21.0	23.4	26.0	28.7	31.6	34.7	38.0	41.4	
DEFLECTION PARAMETER (SLDP)	603	685	773	868	970	1080	1199	1328	
DEFLECTION PARAMETER (SWDP)	0.716	0.697	0.678	0.657	0.635	0.613	0.589	0.566	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	216	228	240	252	264	276	288	300
	14.5	198	209	220	231	242	253	264	275
	15.0	183	193	203	213	223	232	242	252
	15.5	169	178	187	196	205	214	223	232
	16.0	156	164	172	180	189	197	205	213
	16.5	144	152	159	167	174	181	189	196
	17.0	134	140	147	154	161	167	174	181
	17.5	124	130	136	142	148	154	161	167
	18.0	115	120	126	132	137	143	148	154
	18.5	107	112	117	122	127	132	137	142
	19.0	99	104	108	113	117	122	126	131
	19.5	92	96	100	104	108	112	116	120
	20.0	86	89	93	97	100	104	107	111
	20.5	80	83	86	89	93	96	99	102
	21.0	74	77	80	83	85	88	91	94
	21.5	69	71	74	76	79	81	84	86
	22.0	64	66	68	71	73	75	77	79
	22.5	59	61	63	65	67	69	71	73
	23.0	55	57	58	60	62	63	65	67
	23.5	51	53	54	55	57	58	59	61
	24.0	48	49	50	51	52	53	54	55
	24.5	44	45	46	47	48	49	49	50
	25.0	41	41	42	43	43	44	45	45
	25.5						40	41	41
	26.0								
	26.5								
	27.0								
	27.5								
	28.0								

TABLE 2: CS210 NWC - #4 REBAR									
Base Steel Thickness = 0.0435"									
IMPERIAL UNITS									
# 4 Rebar									
Normal Weight Concrete = 145 lb/ft³									
SLAB WEIGHT (psf)	52.6	58.7	64.7	70.7	76.8	82.8	88.9	94.9	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	15.0	14.3	13.7	13.2	12.7	12.3	11.9	11.6	
MAX. UNSHORED TWO SPAN (ft)	12.0	11.1	10.3	9.5	8.9	8.4	7.9	7.5	
MAX. UNSHORED THREE SPAN (ft)	13.7	12.6	11.6	10.8	10.1	9.5	9.0	8.5	
I _u (in⁴)	56.6	64.8	73.6	83.0	93.2	104.3	116	130	
I _c (in⁴)	22.7	25.3	28.1	31.2	34.4	37.9	41.5	45.4	
DEFLECTION PARAMETER (SLDP)	623	709	800	898	1004	1119	1242	1376	
DEFLECTION PARAMETER (SWDP)	0.709	0.690	0.671	0.650	0.628	0.606	0.582	0.559	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	244	259	274	289	303	318	333	348
	14.5	225	238	252	265	279	293	306	320
	15.0	207	220	232	245	257	269	282	294
	15.5	192	203	214	226	237	248	260	271
	16.0	178	188	198	209	219	229	239	250
	16.5	165	174	183	193	202	212	221	231
	17.0	153	161	170	179	187	196	205	213
	17.5	142	150	158	166	173	181	189	197
	18.0	132	139	146	154	161	168	175	182
	18.5	123	129	136	143	149	156	162	169
	19.0	114	120	126	132	138	144	150	156
	19.5	107	112	118	123	129	134	139	145
	20.0	99	104	109	114	119	124	129	134
	20.5	93	97	102	106	111	115	120	124
	21.0	87	91	95	99	103	107	111	115
	21.5	81	84	88	92	96	99	103	107
	22.0	75	79	82	85	89	92	95	99
	22.5	70	73	76	79	82	85	88	91
	23.0	66	68	71	74	76	79	81	84
	23.5	61	64	66	68	71	73	75	78
	24.0	57	59	61	63	65	67	69	71
	24.5	53	55	57	59	60	62	64	66
	25.0	49	51	53	54	56	57	59	60
	25.5	46	47	49	50	51	53	54	55
	26.0	43	44	45	46	47	48	49	50
	26.5		41	41	42	43	44	45	46
	27.0						40	41	42
	27.5								
	28.0								

TABLE 2: CS210 NWC - #4 REBAR									
Base Steel Thickness = 0.0495"									
IMPERIAL UNITS									
# 4 Rebar									
Normal Weight Concrete = 145 lb/ft³									
SLAB WEIGHT (psf)	53.0	59.1	65.1	71.1	77.2	83.2	89.3	95.3	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	17.0	16.3	15.7	15.1	14.6	14.1	13.7	13.3	
MAX. UNSHORED TWO SPAN (ft)	15.4	14.1	13.1	12.2	11.4	10.7	10.1	9.6	
MAX. UNSHORED THREE SPAN (ft)	17.5	16.1	14.9	13.9	13.0	12.2	11.5	10.9	
I _u (in⁴)	57.6	66.0	74.9	84.5	94.9	106.1	118	132	
I _c (in⁴)	24.4	27.2	30.3	33.7	37.2	41.0	45.1	49.3	
DEFLECTION PARAMETER (SLDP)	645	733	828	929	1039	1158	1286	1424	
DEFLECTION PARAMETER (SWDP)	0.702	0.683	0.663	0.642	0.621	0.598	0.575	0.552	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	272	289	307	324	342	359	377	394
	14.5	251	267	283	299	315	331	347	363
	15.0	232	246	261	276	290	305	320	334
	15.5	214	228	241	255	268	282	295	309
	16.0	199	211	223	236	248	260	273	285
	16.5	184	196	207	218	230	241	253	264
	17.0	171	182	192	203	213	224	234	244
	17.5	160	169	179	188	198	207	217	227
	18.0	149	157	166	175	184	193	201	210
	18.5	139	147	155	163	171	179	187	195
	19.0	129	137	144	152	159	167	174	181
	19.5	121	128	134	141	148	155	162	169
	20.0	113	119	125	132	138	144	150	157
	20.5	105	111	117	123	129	134	140	146
	21.0	99	104	109	114	120	125	130	136
	21.5	92	97	102	107	112	116	121	126
	22.0	86	91	95	100	104	108	113	117
	22.5	81	85	89	93	97	101	105	109
	23.0	76	79	83	87	90	94	97	101
	23.5	71	74	77	81	84	87	91	94
	24.0	66	69	72	75	78	81	84	87
	24.5	62	65	67	70	73	75	78	81
	25.0	58	60	63	65	67	70	72	75
	25.5	54	56	58	60	63	65	67	69
	26.0	51	52	54	56	58	60	62	64
	26.5	47	49	50	52	54	55	57	59
	27.0	44	45	47	48	50	51	52	54
	27.5	41	42	43	45	46	47	48	49
	28.0			40	41	42	43	44	45

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 2: CS210 NWC - #5 REBAR									
IMPERIAL UNITS									
Base Steel Thickness = 0.0375"									
Area of Steel Deck Included									
Normal Weight Concrete = 145 lb/ft ³									
# 5 Rebar									
SLAB WEIGHT (psf)	52.4	58.4	64.5	70.5	76.6	82.6	88.7	94.7	
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	12.6	12.1	11.6	11.1	10.7	10.4	10.1	9.8	
MAX. UNSHORED TWO SPAN (ft)	9.1	8.3	7.7	7.2	6.7	6.3	5.9	5.6	
MAX. UNSHORED THREE SPAN (ft)	10.3	9.5	8.8	8.2	7.6	7.2	6.8	6.3	
I _u (in ⁴)	56.9	65.2	74.1	83.6	93.9	105.0	117	130	
I _c (in ⁴)	23.3	26.0	28.9	32.0	35.3	38.8	42.5	46.4	
DEFLECTION PARAMETER (SLDP)	631	718	810	910	1016	1132	1256	1390	
DEFLECTION PARAMETER (SWDP)	0.702	0.683	0.664	0.644	0.622	0.600	0.577	0.554	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	276	292	307	323	339	355	371	387
	14.5	254	269	283	298	312	327	341	356
	15.0	235	248	262	275	288	301	315	328
	15.5	218	230	242	254	266	278	291	303
	16.0	202	213	224	235	246	257	269	280
	16.5	187	198	208	218	228	238	249	259
	17.0	174	184	193	202	212	221	230	240
	17.5	162	171	179	188	196	205	214	222
	18.0	151	159	167	175	183	190	198	206
	18.5	141	148	155	163	170	177	184	191
	19.0	132	138	145	151	158	165	171	178
	19.5	123	129	135	141	147	153	159	165
	20.0	115	121	126	131	137	142	148	153
	20.5	108	113	118	123	128	133	138	143
	21.0	101	105	110	114	119	123	128	133
	21.5	94	98	103	107	111	115	119	123
	22.0	88	92	96	99	103	107	111	114
	22.5	83	86	89	93	96	100	103	106
	23.0	77	80	83	87	90	93	96	99
	23.5	72	75	78	81	83	86	89	92
	24.0	68	70	73	75	78	80	82	85
	24.5	64	66	68	70	72	74	76	79
	25.0	59	61	63	65	67	69	71	73
	25.5	56	57	59	61	62	64	65	67
	26.0	52	53	55	56	58	59	60	62

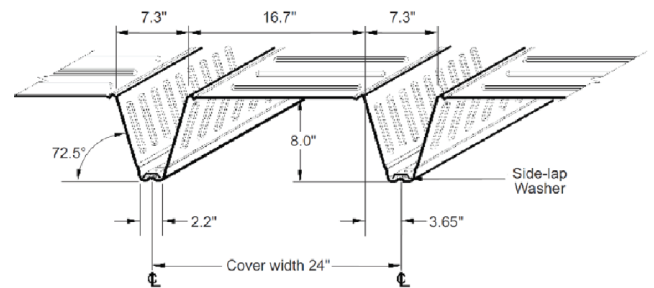
TABLE 2: CS210 NWC - #5 REBAR									
IMPERIAL UNITS									
Base Steel Thickness = 0.0495"									
Area of Steel Deck Included									
Normal Weight Concrete = 145 lb/ft ³									
# 5 Rebar									
SLAB WEIGHT (psf)	53.2	59.2	65.3	71.3	77.4	83.4	89.4	95.5	
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	17.5	16.7	16.1	15.6	15.0	14.5	14.1	13.7	
MAX. UNSHORED TWO SPAN (ft)	15.3	14.1	13.1	12.2	11.4	10.7	10.1	9.5	
MAX. UNSHORED THREE SPAN (ft)	17.4	16.0	14.9	13.8	12.9	12.2	11.5	10.9	
I _u (in ⁴)	58.9	67.5	76.6	86.4	97.0	108.5	121	135	
I _c (in ⁴)	26.5	29.7	33.1	36.8	40.7	44.9	49.3	54.0	
DEFLECTION PARAMETER (SLDP)	672	764	863	969	1084	1207	1340	1484	
DEFLECTION PARAMETER (SWDP)	0.689	0.670	0.650	0.630	0.608	0.586	0.564	0.541	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	334	356	377	399	421	442	464	486
	14.5	309	329	349	368	388	408	428	448
	15.0	286	304	323	341	359	377	396	414
	15.5	265	282	299	316	333	349	366	383
	16.0	246	262	278	293	309	324	340	355
	16.5	229	244	258	272	287	301	315	330
	17.0	214	227	240	253	267	280	293	306
	17.5	200	212	224	236	248	261	273	285
	18.0	186	198	209	220	232	243	254	266
	18.5	174	185	195	206	216	227	237	248
	19.0	163	173	183	192	202	212	221	231
	19.5	153	162	171	180	189	198	207	216
	20.0	143	152	160	168	177	185	193	202
	20.5	135	142	150	158	165	173	181	188
	21.0	126	133	141	148	155	162	169	176
	21.5	119	125	132	138	145	152	158	165
	22.0	112	118	124	130	136	142	148	154
	22.5	105	111	116	122	127	133	139	144
	23.0	99	104	109	114	119	125	130	135
	23.5	93	98	102	107	112	117	121	126
	24.0	87	92	96	101	105	109	114	118
	24.5	82	86	90	94	98	102	106	110
	25.0	77	81	85	88	92	96	100	103
	25.5	73	76	80	83	86	90	93	96
	26.0	69	72	75	78	81	84	87	90

TABLE 2: CS210 NWC - #5 REBAR									
IMPERIAL UNITS									
Base Steel Thickness = 0.0435"									
Area of Steel Deck Included									
Normal Weight Concrete = 145 lb/ft ³									
# 5 Rebar									
SLAB WEIGHT (psf)	52.8	58.8	64.9	70.9	77.0	83.0	89.0	95.1	
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	15.4	14.8	14.1	13.6	13.1	12.7	12.3	11.9	
MAX. UNSHORED TWO SPAN (ft)	12.0	11.1	10.2	9.5	8.9	8.4	7.9	7.5	
MAX. UNSHORED THREE SPAN (ft)	13.7	12.6	11.6	10.8	10.1	9.5	9.0	8.5	
I _u (in ⁴)	57.9	66.3	75.3	84.9	95.4	106.7	119	132	
I _c (in ⁴)	24.9	27.8	31.0	34.4	38.0	41.9	45.9	50.2	
DEFLECTION PARAMETER (SLDP)	651	741	836	939	1050	1169	1298	1437	
DEFLECTION PARAMETER (SWDP)	0.696	0.677	0.657	0.637	0.615	0.593	0.571	0.548	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	305	324	343	362	381	400	418	437
	14.5	282	299	316	334	351	368	385	403
	15.0	261	277	293	308	324	340	356	372
	15.5	242	256	271	285	300	314	329	344
	16.0	224	238	251	265	278	291	305	318
	16.5	209	221	233	246	258	270	282	295
	17.0	194	206	217	228	240	251	262	274
	17.5	181	192	202	212	223	233	244	254
	18.0	169	179	188	198	207	217	227	236
	18.5	158	167	176	184	193	202	211	220
	19.0	148	156	164	172	180	188	197	205
	19.5	138	146	153	161	168	176	183	191
	20.0	129	136	143	150	157	164	171	178
	20.5	121	128	134	140	147	153	159	166
	21.0	114	120	125	131	137	143	149	155
	21.5	107	112	117	123	128	134	139	144
	22.0	100	105	110	115	120	125	130	135
	22.5	94	98	103	107	112	117	121	126
	23.0	88	92	96	101	105	109	113	117
	23.5	83	87	90	94	98	102	105	109
	24.0	78	81	85	88	91	95	98	102
	24.5	73	76	79	82	85	89	92	95
	25.0	69	71	74	77	80	83	85	88
	25.5	64	67	69	72	74	77	79	82
	26.0	60	63	65	67	69	72	74	76

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 2: CS210 NWC - #5 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 2: CS210 NWC - #6 REBAR									
Base Steel Thickness = 0.0375"									
IMPERIAL UNITS									
# 6 Rebar									
Area of Steel Deck Included									
Normal Weight Concrete = 145 lb/ft³									
SLAB WEIGHT (psf)	52.6	58.7	64.7	70.8	76.8	82.8	88.9	94.9	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	12.6	12.0	11.5	11.1	10.7	10.4	10.1	9.8	
MAX. UNSHORED TWO SPAN (ft)	9.0	8.3	7.7	7.2	6.7	6.3	5.9	5.5	
MAX. UNSHORED THREE SPAN (ft)	10.3	9.5	8.8	8.2	7.6	7.2	6.7	6.3	
I _u (in⁴)	58.4	67.0	76.1	85.9	96.4	107.9	120	134	
I _c (in⁴)	26.0	29.0	32.3	35.9	39.6	43.6	47.7	52.2	
DEFLECTION PARAMETER (SLDP)	664	756	853	958	1070	1191	1322	1462	
DEFLECTION PARAMETER (SWDP)	0.687	0.668	0.649	0.628	0.607	0.586	0.564	0.541	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	336	356	376	396	415	435	455	475
	14.5	311	329	347	365	383	401	420	438
	15.0	288	304	321	338	354	371	388	404
	15.5	267	282	298	313	328	344	359	374
	16.0	248	262	276	290	304	319	333	347
	16.5	231	244	257	270	283	296	309	322
	17.0	215	227	239	251	263	275	287	299
	17.5	201	212	223	234	245	256	267	278
	18.0	188	198	208	218	228	239	249	259
	18.5	176	185	194	204	213	223	232	241
	19.0	165	173	182	191	199	208	217	225
	19.5	154	162	170	178	186	194	202	210
	20.0	145	152	159	167	174	182	189	196
	20.5	136	143	149	156	163	170	177	183
	21.0	128	134	140	146	153	159	165	171
	21.5	120	126	131	137	143	149	154	160
	22.0	113	118	123	129	134	139	145	150
	22.5	106	111	116	121	125	130	135	140
	23.0	100	104	109	113	118	122	127	131
	23.5	94	98	102	106	110	114	118	123
	24.0	88	92	96	100	103	107	111	115
	24.5	83	87	90	93	97	100	104	107
	25.0	78	81	85	88	91	94	97	100
	25.5	74	77	79	82	85	88	91	93
	26.0	69	72	74	77	80	82	85	87
	26.5	65	68	70	72	74	77	79	81
	27.0	62	64	66	68	70	72	74	76
	27.5	58	60	61	63	65	67	69	70
	28.0	54	56	58	59	61	62	64	65
	28.5	51	53	54	55	57	58	59	61
	29.0	48	49	50	51	53	54	55	56

TABLE 2: CS210 NWC - #6 REBAR									
Base Steel Thickness = 0.0495"									
IMPERIAL UNITS									
# 6 Rebar									
Area of Steel Deck Included									
Normal Weight Concrete = 145 lb/ft³									
SLAB WEIGHT (psf)	53.4	59.5	65.5	71.6	77.6	83.6	89.7	95.7	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	17.4	16.7	16.1	15.5	15.0	14.5	14.1	13.7	
MAX. UNSHORED TWO SPAN (ft)	15.3	14.1	13.0	12.2	11.4	10.7	10.1	9.5	
MAX. UNSHORED THREE SPAN (ft)	17.4	16.0	14.8	13.8	12.9	12.1	11.5	10.8	
I _u (in⁴)	60.4	69.2	78.6	88.6	99.5	111.3	124	138	
I _c (in⁴)	29.0	32.6	36.4	40.4	44.8	49.4	54.3	59.5	
DEFLECTION PARAMETER (SLDP)	703	800	904	1015	1135	1264	1403	1553	
DEFLECTION PARAMETER (SWDP)	0.675	0.656	0.636	0.616	0.595	0.573	0.551	0.529	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	394	419	445	470	496	521	547	572
	14.5	364	388	411	435	458	482	505	529
	15.0	338	359	381	403	424	446	468	489
	15.5	314	334	354	374	394	414	434	454
	16.0	292	310	329	347	366	384	403	421
	16.5	272	289	306	323	341	358	375	392
	17.0	254	270	286	302	317	333	349	365
	17.5	237	252	267	282	296	311	326	340
	18.0	222	236	250	263	277	291	304	318
	18.5	208	221	234	246	259	272	284	297
	19.0	195	207	219	231	243	254	266	278
	19.5	183	194	205	216	227	238	249	260
	20.0	172	183	193	203	213	223	234	244
	20.5	162	172	181	191	200	210	219	229
	21.0	153	161	170	179	188	197	206	214
	21.5	144	152	160	168	177	185	193	201
	22.0	136	143	151	158	166	174	181	189
	22.5	128	135	142	149	156	163	170	178
	23.0	121	127	134	140	147	154	160	167
	23.5	114	120	126	132	138	145	151	157
	24.0	107	113	119	125	130	136	142	147
	24.5	102	107	112	117	123	128	133	139
	25.0	96	101	106	111	116	120	125	130
	25.5	91	95	100	104	109	113	118	122
	26.0	86	90	94	98	102	107	111	115
	26.5	81	85	89	93	96	100	104	108
	27.0	77	80	84	87	91	94	98	101
	27.5	72	76	79	82	85	89	92	95
	28.0	68	71	74	77	80	83	86	89
	28.5	65	67	70	73	75	78	81	84
	29.0	61	63	66	68	71	73	76	78

TABLE 2: CS210 NWC - #6 REBAR						IMPERIAL UNITS			
Base Steel Thickness = 0.0435"						Area of Steel Deck Included			
# 6 Rebar	Normal Weight Concrete = 145 lb/ft³								
SLAB WEIGHT (psf)	53.0	59.1	65.1	71.2	77.2	83.2	89.3	95.3	
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	15.4	14.7	14.1	13.6	13.1	12.7	12.3	11.9	
MAX. UNSHORED TWO SPAN (ft)	12.0	11.0	10.2	9.5	8.9	8.4	7.9	7.5	
MAX. UNSHORED THREE SPAN (ft)	13.6	12.5	11.6	10.8	10.1	9.5	9.0	8.5	
I _u (in⁴)	59.3	68.0	77.3	87.2	97.9	109.5	122	136	
I _c (in⁴)	27.5	30.8	34.3	38.1	42.2	46.5	51.0	55.8	
DEFLECTION PARAMETER (SLDP)	683	777	878	986	1102	1227	1362	1507	
DEFLECTION PARAMETER (SWDP)	0.682	0.662	0.643	0.622	0.601	0.580	0.558	0.536	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	14.0	365	388	411	433	456	479	502	524
	14.5	338	359	380	400	421	442	463	484
	15.0	313	332	351	371	390	409	428	447
	15.5	291	308	326	344	361	379	397	415
	16.0	270	287	303	319	336	352	368	385
	16.5	252	267	282	297	312	327	342	357
	17.0	235	249	263	277	291	305	319	333
	17.5	219	232	245	258	271	284	297	310
	18.0	205	217	229	241	253	265	277	289
	18.5	192	203	214	225	236	248	259	270
	19.0	180	190	201	211	221	231	242	252
	19.5	169	179	188	198	207	217	226	236
	20.0	159	168	176	185	194	203	212	220
	20.5	149	157	165	174	182	190	198	206
	21.0	140	148	155	163	171	178	186	193
	21.5	132	139	146	153	160	167	174	181
	22.0	124	131	137	144	150	157	163	170
	22.5	117	123	129	135	141	147	153	159
	23.0	110	116	121	127	133	138	144	149
	23.5	104	109	114	119	125	130	135	140
24.0	98	103	108	112	117	122	126	131	
24.5	92	97	101	106	110	114	119	123	
25.0	87	91	95	99	103	107	111	115	
25.5	82	86	90	93	97	101	104	108	
26.0	78	81	84	88	91	95	98	101	
26.5	73	76	79	82	86	89	92	95	
27.0	69	72	75	78	80	83	86	89	
27.5	65	68	70	73	75	78	80	83	
28.0	61	64	66	68	71	73	75	77	
28.5	58	60	62	64	66	68	70	72	
29.0	55	56	58	60	62	64	66	67	



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

# 7 Rebar	IMPERIAL UNITS									
	Area of Steel Deck Included									
	Normal Weight Concrete = 145 lb/ft ³									
SLAB WEIGHT (psf)	52.9	58.9	65.0	71.0	77.1	83.1	89.2	95.2		
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	12.6	12.0	11.5	11.1	10.7	10.4	10.0	9.8		
MAX. UNSHORED TWO SPAN (ft)	9.0	8.3	7.7	7.2	6.7	6.3	5.9	5.5		
MAX. UNSHORED THREE SPAN (ft)	10.3	9.4	8.7	8.1	7.6	7.1	6.7	6.3		
I _u (in ⁴)	60.1	69.0	78.4	88.4	99.3	111.0	124	138		
I _c (in ⁴)	28.8	32.3	36.1	40.1	44.3	48.8	53.6	58.6		
DEFLECTION PARAMETER (SLDP)	700	797	900	1011	1130	1258	1395	1543		
DEFLECTION PARAMETER (SWDP)	0.672	0.652	0.633	0.613	0.592	0.571	0.549	0.528		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	16.0	301	319	337	354	372	389	407	425	
	16.5	281	297	314	330	346	362	379	395	
	17.0	263	278	293	308	323	338	353	368	
	17.5	246	259	273	287	301	315	329	343	
	18.0	230	243	256	269	282	295	308	320	
	18.5	216	228	240	252	264	276	288	300	
	19.0	202	213	225	236	247	258	269	280	
	19.5	190	200	211	221	231	242	252	263	
	20.0	179	188	198	208	217	227	236	246	
	20.5	168	177	186	195	204	213	222	231	
	21.0	158	167	175	183	192	200	208	217	
	21.5	149	157	165	172	180	188	196	203	
	22.0	141	148	155	162	169	177	184	191	
	22.5	133	139	146	153	159	166	173	179	
	23.0	125	132	138	144	150	156	162	169	
	23.5	118	124	130	136	141	147	153	159	
	24.0	112	117	123	128	133	138	144	149	
	24.5	106	111	116	121	125	130	135	140	
	25.0	100	105	109	114	118	123	127	132	
	25.5	95	99	103	107	111	116	120	124	
	26.0	90	93	97	101	105	109	113	116	
	26.5	85	88	92	95	99	102	106	109	
	27.0	80	83	87	90	93	96	100	103	
	27.5	76	79	82	85	88	91	94	96	
	28.0	72	74	77	80	82	85	88	91	
	28.5	68	70	73	75	78	80	82	85	
	29.0	64	66	69	71	73	75	77	80	
	29.5	61	63	65	67	69	71	73	75	
	30.0	57	59	61	63	64	66	68	70	
	30.5	54	56	57	59	60	62	64	65	
	31.0	51	53	54	55	57	58	59	61	
	31.5	48	50	51	52	53	54	55	57	
	32.0	46	47	48	49	50	51	52	53	
	32.5	43	44	45	45	46	47	48	49	
	33.0	41	41	42	43	43	44	45	45	

# 7 Rebar	IMPERIAL UNITS									
	Area of Steel Deck Included									
	Normal Weight Concrete = 145 lb/ft ³									
SLAB WEIGHT (psf)	53.3	59.3	65.4	71.4	77.5	83.5	89.6	95.6		
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	15.4	14.7	14.1	13.6	13.1	12.6	12.2	11.9		
MAX. UNSHORED TWO SPAN (ft)	11.9	11.0	10.2	9.5	8.9	8.3	7.9	7.4		
MAX. UNSHORED THREE SPAN (ft)	13.6	12.5	11.6	10.8	10.1	9.5	8.9	8.5		
I _u (in ⁴)	61.0	70.0	79.5	89.7	100.8	112.7	126	140		
I _c (in ⁴)	30.3	34.0	38.0	42.2	46.8	51.6	56.7	62.1		
DEFLECTION PARAMETER (SLDP)	718	818	924	1038	1161	1292	1434	1587		
DEFLECTION PARAMETER (SWDP)	0.667	0.647	0.627	0.607	0.586	0.565	0.544	0.522		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	16.0	323	343	363	383	402	422	442	462	
	16.5	301	320	338	357	375	393	412	430	
	17.0	282	299	316	333	350	367	384	401	
	17.5	264	279	295	311	327	343	359	374	
	18.0	247	262	276	291	306	321	335	350	
	18.5	232	245	259	273	286	300	314	327	
	19.0	218	230	243	256	269	281	294	307	
	19.5	204	216	228	240	252	264	276	288	
	20.0	192	203	215	226	237	248	259	270	
	20.5	181	192	202	212	222	233	243	253	
	21.0	171	180	190	200	209	219	228	238	
	21.5	161	170	179	188	197	206	215	224	
	22.0	152	160	169	177	186	194	202	211	
	22.5	144	151	159	167	175	183	190	198	
	23.0	136	143	150	158	165	172	179	187	
	23.5	128	135	142	149	155	162	169	176	
	24.0	121	128	134	140	147	153	159	165	
	24.5	115	121	127	132	138	144	150	156	
	25.0	109	114	120	125	131	136	141	147	
	25.5	103	108	113	118	123	128	133	138	
	26.0	98	102	107	112	116	121	126	130	
	26.5	92	97	101	105	110	114	118	123	
	27.0	88	92	96	100	104	108	112	116	
	27.5	83	87	90	94	98	102	105	109	
	28.0	79	82	85	89	92	96	99	103	
	28.5	74	78	81	84	87	90	93	96	
	29.0	71	73	76	79	82	85	88	91	
	29.5	67	69	72	75	77	80	83	85	
	30.0	63	66	68	71	73	75	78	80	
	30.5	60	62	64	66	69	71	73	75	
	31.0	57	59	61	63	65	67	69	70	
	31.5	54	55	57	59	61	62	64	66	
	32.0	51	52	54	55	57	59	60	62	
	32.5	48	49	51	52	54	55	56	58	
	33.0	45	47	48	49	50	51	53	54	

TABLE 2: CS210 NWC - #7 REBAR					IMPERIAL UNITS				
Base Steel Thickness = 0.0495"					Area of Steel Deck Included				
# 7 Rebar					Normal Weight Concrete = 145 lb/ft ³				
SLAB WEIGHT (psf)	53.7	59.7	65.8	71.8	77.9	83.9	89.9	96.0	
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	17.4	16.7	16.1	15.5	15.0	14.5	14.1	13.6	
MAX. UNSHORED TWO SPAN (ft)	15.3	14.0	13.0	12.1	11.3	10.7	10.1	9.5	
MAX. UNSHORED THREE SPAN (ft)	17.3	16.0	14.8	13.8	12.9	12.1	11.4	10.8	
I _u (in ⁴)	62.0	71.1	80.8	91.1	102.3	114.4	128	142	
I _c (in ⁴)	31.8	35.7	39.9	44.4	49.3	54.4	59.9	65.6	
DEFLECTION PARAMETER (SLDP)	738	840	949	1067	1193	1328	1474	1631	
DEFLECTION PARAMETER (SWDP)	0.661	0.641	0.621	0.601	0.580	0.559	0.538	0.517	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	16.0	344	366	388	410	432	454	476	498
	16.5	321	342	362	382	403	423	444	464
	17.0	300	319	338	357	376	395	414	433
	17.5	281	299	316	334	352	369	387	405
	18.0	264	280	296	313	329	346	362	378
	18.5	247	263	278	293	309	324	339	354
	19.0	232	247	261	275	289	304	318	332
	19.5	219	232	245	259	272	285	299	312
	20.0	206	218	231	243	256	268	280	293
	20.5	194	206	217	229	240	252	264	275
	21.0	183	194	205	216	226	237	248	259
	21.5	173	183	193	203	213	223	234	244
	22.0	163	173	182	192	201	211	220	230
	22.5	154	163	172	181	190	199	207	216
	23.0	146	154	162	171	179	187	196	204
23.5	138	146	153	161	169	177	185	192	
24.0	131	138	145	152	160	167	174	181	
24.5	124	130	137	144	151	158	164	171	
25.0	117	124	130	136	143	149	155	162	
25.5	111	117	123	129	135	141	147	152	
26.0	105	111	116	122	127	133	138	144	
26.5	100	105	110	115	120	126	131	136	
27.0	95	100	104	109	114	119	123	128	
27.5	90	94	99	103	108	112	117	121	
28.0	85	89	94	98	102	106	110	114	
28.5	81	85	89	92	96	100	104	108	
29.0	77	80	84	87	91	94	98	102	
29.5	73	76	79	83	86	89	92	96	
30.0	69	72	75	78	81	84	87	90	
30.5	66	68	71	74	77	79	82	85	
31.0	62	65	67	70	72	75	77	80	
31.5	59	61	64	66	68	70	73	75	
32.0	56	58	60	62	64	66	68	71	
32.5	53	55	57	59	60	62	64	66	
33.0	50	52	54	55	57	59	60	62	



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

# 8 Rebar	IMPERIAL UNITS									
	Area of Steel Deck Included									
	Normal Weight Concrete = 145 lb/ft ³									
SLAB WEIGHT (psf)	53.2	59.3	65.3	71.3	77.4	83.4	89.5	95.5		
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	12.6	12.0	11.5	11.1	10.7	10.4	10.0	9.8		
MAX. UNSHORED TWO SPAN (ft)	9.0	8.3	7.7	7.1	6.7	6.3	5.9	5.5		
MAX. UNSHORED THREE SPAN (ft)	10.2	9.4	8.7	8.1	7.6	7.1	6.7	6.3		
I _u (in ⁴)	61.9	71.1	80.8	91.2	102.4	114.6	128	142		
I _c (in ⁴)	31.9	35.9	40.1	44.6	49.4	54.5	59.9	65.5		
DEFLECTION PARAMETER (SLDP)	738	841	951	1069	1195	1330	1475	1631		
DEFLECTION PARAMETER (SWDP)	0.656	0.636	0.616	0.596	0.576	0.555	0.535	0.514		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	16.0	361	383	404	426	448	469	491	513	
	16.5	337	357	377	397	418	438	458	478	
	17.0	315	334	353	371	390	409	427	446	
	17.5	295	313	330	347	365	382	399	417	
	18.0	277	293	309	325	342	358	374	390	
	18.5	260	275	290	305	320	335	350	365	
	19.0	245	259	273	287	301	315	329	343	
	19.5	230	243	256	269	282	296	309	322	
	20.0	217	229	241	253	266	278	290	302	
	20.5	204	216	227	239	250	261	273	284	
	21.0	193	204	214	225	236	246	257	268	
	21.5	182	192	202	212	222	232	242	252	
	22.0	172	182	191	200	209	219	228	237	
	22.5	163	172	180	189	198	206	215	224	
	23.0	154	162	170	179	187	195	203	211	
	23.5	146	154	161	169	176	184	192	199	
	24.0	138	145	153	160	167	174	181	188	
	24.5	131	138	144	151	158	164	171	178	
	25.0	124	131	137	143	149	155	161	168	
	25.5	118	124	130	135	141	147	153	158	
	26.0	112	117	123	128	133	139	144	150	
	26.5	106	111	116	121	126	131	136	141	
	27.0	101	106	110	115	120	124	129	134	
	27.5	96	100	105	109	113	117	122	126	
	28.0	91	95	99	103	107	111	115	119	
	28.5	87	90	94	98	101	105	109	113	
	29.0	82	86	89	92	96	99	103	106	
	29.5	78	81	84	88	91	94	97	100	
	30.0	74	77	80	83	86	89	92	95	
	30.5	70	73	76	78	81	84	86	89	
	31.0	67	69	72	74	77	79	82	84	
	31.5	64	66	68	70	72	75	77	79	
	32.0	60	62	64	66	68	70	72	74	
	32.5	57	59	61	63	65	66	68	70	
	33.0	54	56	58	59	61	62	64	66	

# 8 Rebar	IMPERIAL UNITS									
	Area of Steel Deck Included									
	Normal Weight Concrete = 145 lb/ft ³									
SLAB WEIGHT (psf)	53.6	59.7	65.7	71.7	77.8	83.8	89.9	95.9		
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	15.3	14.7	14.1	13.5	13.1	12.6	12.2	11.9		
MAX. UNSHORED TWO SPAN (ft)	11.9	11.0	10.2	9.5	8.9	8.3	7.8	7.4		
MAX. UNSHORED THREE SPAN (ft)	13.5	12.5	11.5	10.8	10.1	9.5	8.9	8.4		
I _u (in ⁴)	62.7	72.0	81.9	92.5	103.9	116.1	129	144		
I _c (in ⁴)	33.3	37.4	41.9	46.7	51.7	57.1	62.9	68.9		
DEFLECTION PARAMETER (SLDP)	755	861	974	1095	1224	1363	1513	1673		
DEFLECTION PARAMETER (SWDP)	0.652	0.632	0.612	0.592	0.571	0.550	0.530	0.509		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	16.0	382	406	430	454	478	502	526	549	
	16.5	357	379	401	424	446	468	490	512	
	17.0	334	355	375	396	417	437	458	478	
	17.5	313	332	351	371	390	409	428	447	
	18.0	294	312	329	347	365	383	401	419	
	18.5	276	293	309	326	343	359	376	393	
	19.0	259	275	291	306	322	337	353	369	
	19.5	244	259	273	288	303	317	332	346	
	20.0	230	244	257	271	285	298	312	326	
	20.5	217	230	243	255	268	281	294	307	
	21.0	205	217	229	241	253	265	277	289	
	21.5	194	205	216	227	239	250	261	272	
	22.0	183	194	204	215	225	236	246	257	
	22.5	173	183	193	203	213	223	232	242	
	23.0	164	173	183	192	201	210	220	229	
	23.5	156	164	173	182	190	199	207	216	
	24.0	148	156	164	172	180	188	196	204	
	24.5	140	148	155	163	170	178	185	193	
	25.0	133	140	147	154	161	168	175	183	
	25.5	126	133	139	146	153	159	166	173	
	26.0	119.d	126	132	138	145	151	157	163	
	26.5	113.d	120	125	131	137	143	149	155	
	27.0	107.d	114	119	124	130	135	141	146	
	27.5	101.d	108	113	118	123	128	133	138	
	28.0	96.d	102	107	112	117	121	126	131	
	28.5	91.d	97	102	106	111	115	119	124	
	29.0	86.d	93	97	101	105	109	113	117	
	29.5	82.d	88	92	96	99	103	107	111	
	30.0	78.d	84	87	91	94	98	101	105	
	30.5	74.d	79	83	86	89	92	96	99	
	31.0	70.d	75	78	81	84	88	91	94	
	31.5	67.d	72	74	77	80	83	86	88	
	32.0	64.d	68	71	73	76	78	81	83	
	32.5	61.d	65	67	69	72	74	76	79	
	33.0	58.d	61	63	66	68	70	72	74	

TABLE 2: CS210 NWC - #8 REBAR					IMPERIAL UNITS				
Base Steel Thickness = 0.0495"					Area of Steel Deck Included				
# 8 Rebar					Normal Weight Concrete = 145 lb/ft ³				
SLAB WEIGHT (psf)	54.0	60.1	66.1	72.1	78.2	84.2	90.3	96.3	
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34	
MAX. UNSHORED ONE SPAN (ft)	17.4	16.7	16.1	15.5	15.0	14.5	14.0	13.6	
MAX. UNSHORED TWO SPAN (ft)	15.2	14.0	13.0	12.1	11.3	10.6	10.0	9.5	
MAX. UNSHORED THREE SPAN (ft)	17.3	15.9	14.7	13.7	12.9	12.1	11.4	10.8	
I _u (in ⁴)	63.7	73.1	83.2	93.9	105.4	117.8	131	146	
I _c (in ⁴)	34.7	39.1	43.7	48.8	54.1	59.8	65.9	72.3	
DEFLECTION PARAMETER (SLDP)	774	883	998	1122	1255	1398	1551	1716	
DEFLECTION PARAMETER (SWDP)	0.647	0.626	0.606	0.586	0.566	0.545	0.524	0.504	
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)							
To be established by the designer.	16.0	403	429	455	481	507	533	559	585
	16.5	376	400	425	449	473	497	522	546
	17.0	352	375	397	420	442	465	487	510
	17.5	330	351	372	393	414	435	456	477
	18.0	310	329	349	369	388	408	427	447
	18.5	291	309	328	346	364	383	401	419
	19.0	274	291	308	325	342	360	377	394
	19.5	258	274	290	306	322	338	354	370
	20.0	243	258	273	288	303	318	333	348
	20.5	230	244	258	272	286	300	314	328
	21.0	217	230	243	256	270	283	296	309
	21.5	205	217	230	242	255	267	279	292
	22.0	194	206	217	229	240	252	264	275
	22.5	184	195	205	216	227	238	249	260
	23.0	174	184	195	205	215	225	236	246
	23.5	165	175	184	194	204	213	223	232
	24.0	156.d	166	175	184	193	202	211	220
	24.5	146.d	157	166	174	183	191	200	208
	25.0	138.d	149	157	165	173	181	189	197
25.5	130.d	141	149	157	164	172	179	187	
26.0	122.d	134	141	148	156	163	170	177	
26.5	116.d	128	134	141	148	154	161	167	
27.0	109.d	121	128	134	140	146	152	159	
27.5	103.d	115	121	127	133	139	144	150	
28.0	98.d	110	115	121	126	131	137	142	
28.5	93.d	104	109	115	120	125	130	135	
29.0	88.d	99	104	109	114	118	123	128	
29.5	84.d	94	99	103	108	112	117	121	
30.0	80.d	90	94	98	102	106	111	115	
30.5	76.d	85	89	93	97	101	105	109	
31.0	72.d	81	85	88	92	96	99	103	
31.5	69.d	77	81	84	87	91	94	97	
32.0	66.d	73	77	80	83	86	89	92	
32.5	63.d	70	73	76	78	81	84	87	
33.0	60.d	66	69	72	74	77	80	82	



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

		IMPERIAL UNITS									
		Area of Steel Deck Included									
# 9 Rebar		Normal Weight Concrete = 145 lb/ft³									
SLAB WEIGHT (psf)	53.6	59.6	65.7	71.7	77.7	83.8	89.8	95.9			
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34			
MAX. UNSHORED ONE SPAN (ft)	12.5	12.0	11.5	11.1	10.7	10.3	10.0	9.7			
MAX. UNSHORED TWO SPAN (ft)	9.0	8.2	7.6	7.1	6.7	6.3	5.9	5.5			
MAX. UNSHORED THREE SPAN (ft)	10.2	9.4	8.7	8.1	7.6	7.1	6.7	6.3			
I _u (in⁴)	63.7	73.3	83.5	94.3	105.9	118.4	132	147			
I _c (in⁴)	35.2	39.6	44.4	49.5	54.9	60.6	66.7	73.1			
DEFLECTION PARAMETER (SLDP)	778	888	1006	1131	1265	1408	1562	1728			
DEFLECTION PARAMETER (SWDP)	0.641	0.620	0.600	0.580	0.560	0.540	0.519	0.499			
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0			
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)									
To be established by the designer.	18.0	330	350	370	390	409	429	449	469		
	18.5	310	329	347	366	384	403	422	440		
	19.0	292	309	327	344	361	379	396	414		
	19.5	275	292	308	324	340	356	373	389		
	20.0	260	275	290	305	321	336	351	366		
	20.5	245	260	274	288	302	317	331	345		
	21.0	232	245	259	272	285	299	312	325		
	21.5	217.d	232	244	257	270	282	295	307		
	22.0	203.d	219	231	243	255	267	278	290		
	22.5	190.d	208	219	230	241	252	263	274		
	23.0	178.d	197	207	218	228	239	249	259		
	23.5	167.d	187	197	206	216	226	236	245		
	24.0	156.d	177	186	196	205	214	223	232		
	24.5	147.d	168.d	177	186	194	203	211	220		
	25.0	138.d	158.d	168	176	184	192	200	208		
	25.5	130.d	149.d	160	167	175	182	190	198		
	26.0	123.d	140.d	152	159	166	173	180	187		
	26.5	116.d	133.d	144	151	157	164	171	178		
	27.0	110.d	125.d	137	143	150	156	162	168		
	27.5	104.d	119.d	130	136	142	148	154	160		
	28.0	98.d	112.d	124	129	135	141	146	152		
	28.5	93.d	107.d	118	123	128	133	139	144		
	29.0	89.d	101.d	112	117	122	127	132	136		
	29.5	84.d	96.d	107	111	116	120	125	129		
	30.0	80.d	91.d	102	106	110	114	119	123		
	30.5	76.d	87.d	97	101	105	109	113	116		
	31.0	73.d	83.d	92	96	99	103	107	110		
	31.5	69.d	79.d	88	91	94	98	101	105		
	32.0	66.d	75.d	83	87	90	93	96	99		
	32.5	63.d	72.d	79	82	85	88	91	94		
	33.0	60.d	69.d	75	78	81	84	86	89		
	33.5	57.d	66.d	72	74	77	79	82	84		
	34.0	55.d	63.d	68	70	73	75	77	80		
	34.5	53.d	60.d	65	67	69	71	73	75		
	35.0	50.d	58.d	62	63	65	67	69	71		

		IMPERIAL UNITS									
		Area of Steel Deck Included									
# 9 Rebar		Normal Weight Concrete = 145 lb/ft³									
SLAB WEIGHT (psf)	54.4	60.4	66.5	72.5	78.5	84.6	90.6	96.7			
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34			
MAX. UNSHORED ONE SPAN (ft)	17.3	16.6	16.0	15.5	15.0	14.5	14.0	13.6			
MAX. UNSHORED TWO SPAN (ft)	15.2	14.0	12.9	12.1	11.3	10.6	10.0	9.5			
MAX. UNSHORED THREE SPAN (ft)	17.2	15.9	14.7	13.7	12.8	12.1	11.4	10.8			
I _u (in⁴)	65.5	75.4	85.8	96.8	108.8	121.6	136	150			
I _c (in⁴)	37.8	42.7	47.9	53.4	59.4	65.7	72.4	79.5			
DEFLECTION PARAMETER (SLDP)	813	928	1051	1182	1323	1473	1635	1809			
DEFLECTION PARAMETER (SWDP)	0.633	0.611	0.591	0.571	0.551	0.531	0.510	0.490			
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0			
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)									
To be established by the designer.	18.0	362	385	408	432	455	478	502	525		
	18.5	340	362	384	406	428	449	471	493		
	19.0	320	341	361	382	402	423	443	464		
	19.5	302	321	341	360	379	398	417	437		
	20.0	282.d	303	321	339	357	375	393	411		
	20.5	262.d	286	303	320	337	354	371	388		
	21.0	244.d	271	287	303	319	335	351	366		
	21.5	227.d	256	271	286	301	316	331	346		
	22.0	212.d	242.d	257	271	285	299	313	327		
	22.5	198.d	226.d	243	257	270	283	297	310		
	23.0	186.d	212.d	231	243	256	268	281	293		
	23.5	174.d	199.d	219	231	243	254	266	278		
	24.0	163.d	187.d	208	219	230	241	252	264		
	24.5	154.d	175.d	197	208	218	229	239	250		
	25.0	145.d	165.d	187.d	198	207	217	227	237		
	25.5	136.d	156.d	176.d	188	197	206	216	225		
	26.0	129.d	147.d	166.d	179	187	196	205	214		
	26.5	121.d	139.d	157.d	170	178	187	195	203		
	27.0	115.d	131.d	148.d	162	169	177	185	193		
	27.5	109.d	124.d	140.d	154	161	169	176	183		
	28.0	103.d	117.d	133.d	146	153	160	167	174		
	28.5	98.d	111.d	126.d	139	146	153	159	166		
	29.0	93.d	106.d	120.d	133	139	145	151	158		
	29.5	88.d	100.d	114.d	127	132	138	144	150		
	30.0	84.d	96.d	108.d	121	126	132	137	143		
	30.5	80.d	91.d	103.d	115	120	125	130	136		
	31.0	76.d	87.d	98.d	109	114	119	124	129		
	31.5	72.d	83.d	93.d	104	109	113	118	123		
	32.0	69.d	79.d	89.d	99	104	108	112	117		
	32.5	66.d	75.d	85.d	95	99	103	107	111		
	33.0	63.d	72.d	81.d	90	94	98	101	105		
	33.5	60.d	69.d	78.d	86	89	93	96	100		
	34.0	57.d	66.d	74.d	82	85	88	92	95		
	34.5	55.d	63.d	71.d	78	81	84	87	90		
	35.0	53.d	60.d	68.d	74	77	80	83	86		

Base Steel Thickness = 0.0435"					IMPERIAL UNITS						
					Area of Steel Deck Included						
# 9 Rebar					Normal Weight Concrete = 145 lb/ft³						
SLAB WEIGHT (psf)	54.0	60.0	66.1	72.1	78.1	84.2	90.2	96.3			
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34			
MAX. UNSHORED ONE SPAN (ft)	15.3	14.7	14.1	13.5	13.0	12.6	12.2	11.9			
MAX. UNSHORED TWO SPAN (ft)	11.9	10.9	10.1	9.4	8.8	8.3	7.8	7.4			
MAX. UNSHORED THREE SPAN (ft)	13.5	12.4	11.5	10.7	10.0	9.4	8.9	8.4			
I _u (in⁴)	64.6	74.3	84.6	95.5	107.3	120.0	134	148			
I _c (in⁴)	36.5	41.1	46.1	51.4	57.1	63.1	69.5	76.3			
DEFLECTION PARAMETER (SLDP)	795	908	1028	1156	1293	1440	1598	1768			
DEFLECTION PARAMETER (SWDP)	0.637	0.616	0.596	0.576	0.556	0.535	0.515	0.495			
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0			
SHORING		MAXIMUM NOMINAL LOAD (psf)									
To be established by the designer.	SPAN (ft)	18.0	346	368	389	411	433	454	476	497	
	18.5	325	346	366	386	406	427	447	467		
	19.0	306	325	344	363	382	401	420	439		
	19.5	289	307	324	342	360	378	395	413		
	20.0	273	289	306	323	339	356	373	389		
	20.5	256.d	273	289	304	320	336	351	367		
	21.0	238.d	258	273	288	302	317	332	346		
	21.5	222.d	244	258	272	286	299	313	327		
	22.0	207.d	231	244	257	270	283	296	309		
	22.5	194.d	219	231	244	256	268	280	292		
	23.0	182.d	207.d	219	231	242	254	265	277		
	23.5	170.d	194.d	208	219	230	240	251	262		
	24.0	160.d	182.d	197	207	218	228	238	248		
	24.5	150.d	171.d	187	197	207	216	226	235		
	25.0	141.d	161.d	178	187	196	205	214	223		
	25.5	133.d	152.d	169	178	186	195	203	212		
	26.0	126.d	143.d	161	169	177	185	193	201		
	26.5	119.d	136.d	153	160	168	176	183	191		
	27.0	112.d	128.d	145.d	153	160	167	174	181		
	27.5	106.d	121.d	137.d	145	152	158	165	172		
28.0	101.d	115.d	130.d	138	144	151	157	163			
28.5	95.d	109.d	123.d	131	137	143	149	155			
29.0	91.d	103.d	117.d	125	131	136	142	147			
29.5	86.d	98.d	111.d	119	124	129	135	140			
30.0	82.d	93.d	106.d	113	118	123	128	133			
30.5	78.d	89.d	101.d	108	112	117	122	126			
31.0	74.d	85.d	96.d	103	107	111	116	120			
31.5	71.d	81.d	91.d	98	102	106	110	114			
32.0	67.d	77.d	87.d	93	97	101	104	108			
32.5	64.d	73.d	83.d	89	92	96	99	103			
33.0	61.d	70.d	79.d	84	88	91	94	97			
33.5	59.d	67.d	76.d	80	83	86	89	92			
34.0	56.d	64.d	73.d	76	79	82	85	87			
34.5	54.d	61.d	70.d	73	75	78	80	83			
35.0	52.d	59.d	67	69	71	74	76	78			



EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

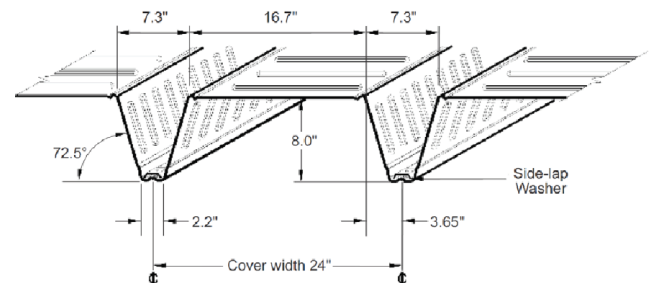
		IMPERIAL UNITS									
		Area of Steel Deck Included									
# 10 Rebar		Normal Weight Concrete = 145 lb/ft ³									
SLAB WEIGHT (psf)	54.0	60.1	66.1	72.2	78.2	84.2	90.3	96.3			
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34			
MAX. UNSHORED ONE SPAN (ft)	12.5	12.0	11.5	11.0	10.7	10.3	10.0	9.7			
MAX. UNSHORED TWO SPAN (ft)	8.9	8.2	7.6	7.1	6.6	6.2	5.9	5.5			
MAX. UNSHORED THREE SPAN (ft)	10.1	9.3	8.6	8.1	7.5	7.1	6.7	6.2			
I _u (in ⁴)	65.9	75.9	86.5	97.8	109.9	122.9	137	152			
I _c (in ⁴)	38.9	43.9	49.3	55.1	61.2	67.7	74.6	81.9			
DEFLECTION PARAMETER (SLDP)	824	943	1068	1203	1346	1500	1664	1840			
DEFLECTION PARAMETER (SWDP)	0.625	0.603	0.583	0.563	0.543	0.523	0.503	0.483			
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0			
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)									
To be established by the designer.	18.0	393.d	418	443	467	492	516	541	565		
	18.5	362.d	393	416	439	462	485	508	531		
	19.0	334.d	371	392	414	435	457	478	500		
	19.5	309.d	350	370	390	410	430	451	471		
	20.0	286.d	327.d	349	368	387	406	425	444		
	20.5	266.d	304.d	330	348	366	383	401	419		
	21.0	247.d	283.d	312	329	346	362	379	396		
	21.5	230.d	263.d	295	311	327	343	359	375		
	22.0	215.d	246.d	279.d	295	310	325	340	354		
	22.5	201.d	230.d	261.d	280	294	308	322	336		
	23.0	188.d	215.d	244.d	265	278	292	305	318		
	23.5	176.d	202.d	229.d	252	264	277	289	302		
	24.0	166.d	189.d	215.d	239	251	263	275	286		
	24.5	156.d	178.d	202.d	227.d	238	250	261	272		
	25.0	147.d	168.d	190.d	214.d	227	237	248	258		
	25.5	138.d	158.d	179.d	201.d	216	225	235	245		
	26.0	130.d	149.d	169.d	190.d	205	214	224	233		
	26.5	123.d	141.d	159.d	180.d	195	204	213	222		
	27.0	116.d	133.d	151.d	170.d	186	194	203	211		
	27.5	110.d	126.d	143.d	161.d	177	185	193	201		
	28.0	104.d	119.d	135.d	152.d	169	176	184	191		
	28.5	99.d	113.d	128.d	144.d	161	168	175	182		
	29.0	94.d	107.d	122.d	137.d	153.d	160	167	173		
	29.5	89.d	102.d	116.d	130.d	146.d	153	159	165		
	30.0	85.d	97.d	110.d	124.d	138.d	145	151	157		
	30.5	81.d	92.d	105.d	118.d	132.d	139	144	150		
	31.0	77.d	88.d	100.d	112.d	126.d	132	137	143		
	31.5	73.d	84.d	95.d	107.d	120.d	126	131	136		
	32.0	70.d	80.d	91.d	102.d	114.d	120	125	129		
	32.5	67.d	76.d	86.d	97.d	109.d	115	119	123		
	33.0	64.d	73.d	83.d	93.d	104.d	109	113	117		
	33.5	61.d	70.d	79.d	89.d	99.d	104	108	112		
	34.0	58.d	67.d	76.d	85.d	95.d	99	103	106		
	34.5	56.d	64.d	72.d	81.d	91.d	95	98	101		
	35.0	53.d	61.d	69.d	78.d	87	90	93	96		
	35.5	51.d	59.d	66.d	75.d	83	86	89	92		
	36.0	49.d	56.d	64.d	72.d	79	82	84	87		

		IMPERIAL UNITS									
		Area of Steel Deck Included									
# 10 Rebar		Normal Weight Concrete = 145 lb/ft ³									
SLAB WEIGHT (psf)	54.4	60.5	66.5	72.6	78.6	84.6	90.7	96.7			
CONCRETE VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34			
MAX. UNSHORED ONE SPAN (ft)	15.3	14.6	14.0	13.5	13.0	12.6	12.2	11.8			
MAX. UNSHORED TWO SPAN (ft)	11.8	10.9	10.1	9.4	8.8	8.3	7.8	7.4			
MAX. UNSHORED THREE SPAN (ft)	13.4	12.4	11.5	10.7	10.0	9.4	8.9	8.4			
I _u (in ⁴)	66.7	76.9	87.6	99.0	111.3	124.4	139	154			
I _c (in ⁴)	40.1	45.3	50.9	56.9	63.3	70.1	77.3	84.9			
DEFLECTION PARAMETER (SLDP)	840	961	1089	1226	1373	1530	1698	1879			
DEFLECTION PARAMETER (SWDP)	0.622	0.600	0.579	0.559	0.539	0.519	0.499	0.479			
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0			
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)									
To be established by the designer.	18.0	400.d	435	462	488	514	540	567	593		
	18.5	369.d	410	434	459	484	508	533	557		
	19.0	340.d	386	409	432	455	478	502	525		
	19.5	315.d	360.d	386	408	429	451	473	494		
	20.0	292.d	334.d	364	385	405	426	446	466		
	20.5	271.d	310.d	344	364	383	402	421	440		
	21.0	252.d	288.d	326	344	362	380	398	416		
	21.5	235.d	269.d	304.d	326	343	360	377	394		
	22.0	219.d	251.d	284.d	309	325	341	357	373		
	22.5	205.d	234.d	266.d	293	308	323	338	353		
	23.0	192.d	219.d	249.d	278	292	306	321	335		
	23.5	180.d	206.d	233.d	263.d	277	291	304	318		
	24.0	169.d	193.d	219.d	246.d	263	276	289	302		
	24.5	159.d	182.d	206.d	232.d	250	262	275	287		
	25.0	149.d	171.d	194.d	218.d	238	250	261	272		
	25.5	141.d	161.d	183.d	205.d	227	237	248	259		
	26.0	133.d	152.d	172.d	194.d	216	226	236	246		
	26.5	125.d	143.d	163.d	183.d	205.d	215	225	234		
	27.0	119.d	136.d	154.d	173.d	194.d	205	214	223		
	27.5	112.d	128.d	146.d	164.d	183.d	195	204	213		
	28.0	106.d	122.d	138.d	155.d	174.d	186	194	202		
	28.5	101.d	115.d	131.d	147.d	165.d	177	185	193		
	29.0	96.d	109.d	124.d	140.d	156.d	169	176	184		
	29.5	91.d	104.d	118.d	133.d	149.d	161	168	175		
	30.0	86.d	99.d	112.d	126.d	141.d	154	160	167		
	30.5	82.d	94.d	107.d	120.d	134.d	147	153	159		
	31.0	78.d	90.d	102.d	114.d	128.d	140	146	152		
	31.5	75.d	85.d	97.d	109.d	122.d	134	139	145		
	32.0	71.d	81.d	92.d	104.d	116.d	128	133	138		
	32.5	68.d	78.d	88.d	99.d	111.d	122	127	132		
	33.0	65.d	74.d	84.d	95.d	106.d	116	121	125		
	33.5	62.d	71.d	80.d	91.d	101.d	111	115	120		
	34.0	59.d	68.d	77.d	87.d	97.d	106	110	114		
	34.5	57.d	65.d	74.d	83.d	93.d	101	105	109		
	35.0	54.d	62.d	71.d	79.d	89.d	96	100	103		
	35.5	52.d	60.d	68.d	76.d	85.d	92	95	99		
	36.0	50.d	57.d	65.d	73.d	82.d	87	91	94		

NOTES:

- The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
- See maximum unshored span conditions above to establish the number of shores required.
- "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
- "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
- I_u is the uncracked moment of inertia based on equivalent steel
- I_c is the cracked moment of inertia based on equivalent steel
- An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 2: CS210 NWC - #10 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 2: CS210 NWC - #11 REBAR										
Base Steel Thickness = 0.0375"										
#11 Rebar										
IMPERIAL UNITS										
Area of Steel Deck Included										
Normal Weight Concrete = 145 lb/ft³										
SLAB WEIGHT (psf)	54.5	60.6	66.6	72.7	78.7	84.7	90.8	96.8		
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	12.5	11.9	11.4	11.0	10.6	10.3	10.0	9.7		
MAX. UNSHORED TWO SPAN (ft)	8.9	8.2	7.6	7.1	6.6	6.2	5.8	5.5		
MAX. UNSHORED THREE SPAN (ft)	10.1	9.3	8.6	8.0	7.5	7.1	6.6	6.2		
I _u (in⁴)	68.1	78.6	89.6	101.4	114.0	127.6	142	158		
I _c (in⁴)	42.5	48.2	54.2	60.7	67.5	74.9	82.6	90.8		
DEFLECTION PARAMETER (SLDP)	870	997	1132	1275	1428	1593	1768	1956		
DEFLECTION PARAMETER (SWDP)	0.611	0.588	0.567	0.546	0.526	0.507	0.487	0.468		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	18.0	414.d	475.d	520	549	579	609	638	668	
	18.5	382.d	437.d	490	517	545	573	601	628	
	19.0	352.d	404.d	458.d	488	514	540	566	592	
	19.5	326.d	373.d	424.d	460	485	509	534	558	
	20.0	302.d	346.d	393.d	435	458	481	504	527	
	20.5	280.d	321.d	365.d	411.d	433	455	477	498	
	21.0	261.d	299.d	339.d	382.d	410	430	451	471	
	21.5	243.d	279.d	316.d	356.d	388	408	427	446	
	22.0	227.d	260.d	295.d	333.d	368	386	405	423	
	22.5	212.d	243.d	276.d	311.d	348.d	367	384	401	
	23.0	199.d	228.d	258.d	291.d	326.d	348	365	381	
	23.5	186.d	213.d	242.d	273.d	306.d	331	346	362	
	24.0	175.d	200.d	227.d	256.d	287.d	315	329	344	
	24.5	164.d	188.d	214.d	241.d	270.d	299	313	327	
	25.0	155.d	177.d	201.d	227.d	254.d	283.d	298	311	
	25.5	146.d	167.d	190.d	214.d	239.d	267.d	284	296	
	26.0	137.d	158.d	179.d	202.d	226.d	252.d	270	282	
	26.5	130.d	149.d	169.d	190.d	213.d	238.d	258	269	
	27.0	123.d	141.d	160.d	180.d	202.d	225.d	246	257	
	27.5	116.d	133.d	151.d	170.d	191.d	213.d	235	245	
	28.0	110.d	126.d	143.d	161.d	181.d	202.d	224.d	233	
	28.5	104.d	120.d	136.d	153.d	171.d	191.d	212.d	223	
	29.0	99.d	114.d	129.d	145.d	163.d	181.d	201.d	213	
	29.5	94.d	108.d	122.d	138.d	155.d	172.d	191.d	203	
	30.0	89.d	103.d	116.d	131.d	147.d	164.d	182.d	194	
	30.5	85.d	98.d	111.d	125.d	140.d	156.d	173.d	185	
	31.0	81.d	93.d	106.d	119.d	133.d	148.d	165.d	177	
	31.5	77.d	89.d	101.d	113.d	127.d	142.d	157.d	169	
	32.0	74.d	84.d	96.d	108.d	121.d	135.d	150.d	162	
	32.5	70.d	81.d	92.d	103.d	116.d	129.d	143.d	155	
	33.0	67.d	77.d	87.d	99.d	110.d	123.d	137.d	148	
	33.5	64.d	74.d	84.d	94.d	106.d	118.d	131.d	141	
	34.0	61.d	70.d	80.d	90.d	101.d	113.d	125.d	135	
	34.5	59.d	67.d	77.d	86.d	97.d	108.d	120.d	129	
	35.0	56.d	65.d	73.d	83.d	93.d	103.d	115.d	123	
	35.5	54.d	62.d	70.d	79.d	89.d	99.d	110.d	118	
	36.0	52.d	59.d	67.d	76.d	85.d	95.d	105.d	113	

TABLE 2: CS210 NWC - #11 REBAR										
Base Steel Thickness = 0.0495"										
#11 Rebar										
IMPERIAL UNITS										
Area of Steel Deck Included										
Normal Weight Concrete = 145 lb/ft³										
SLAB WEIGHT (psf)	55.3	61.4	67.4	73.5	79.5	85.5	91.6	97.6		
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	17.3	16.6	16.0	15.4	14.9	14.4	14.0	13.6		
MAX. UNSHORED TWO SPAN (ft)	15.0	13.8	12.8	12.0	11.2	10.5	9.9	9.4		
MAX. UNSHORED THREE SPAN (ft)	17.0	15.7	14.6	13.6	12.7	12.0	11.3	10.7		
I _u (in⁴)	69.8	80.5	91.8	103.9	116.8	130.6	146	162		
I _c (in⁴)	44.9	50.9	57.3	64.2	71.5	79.4	87.7	96.5		
DEFLECTION PARAMETER (SLDP)	902	1033	1173	1322	1481	1652	1834	2030		
DEFLECTION PARAMETER (SWDP)	0.605	0.582	0.560	0.539	0.519	0.500	0.480	0.461		
SLAB THICKNESS (in.)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0		
SHORING	SPAN (ft)	MAXIMUM NOMINAL LOAD (psf)								
To be established by the designer.	18.0	430.d	492.d	556	589	622	655	688	721	
	18.5	396.d	453.d	515.d	554	585	617	648	679	
	19.0	365.d	419.d	475.d	523	552	581	610	640	
	19.5	338.d	387.d	439.d	493	521	548	576	604	
	20.0	313.d	359.d	407.d	459.d	492	518	544	570	
	20.5	291.d	333.d	378.d	426.d	466	490	515	539	
	21.0	271.d	310.d	352.d	396.d	441	464	487	510	
	21.5	252.d	289.d	328.d	369.d	414.d	440	462	483	
	22.0	235.d	270.d	306.d	345.d	386.d	417	438	458	
	22.5	220.d	252.d	286.d	322.d	361.d	396	416	435	
	23.0	206.d	236.d	268.d	302.d	338.d	376	395	413	
	23.5	193.d	221.d	251.d	283.d	317.d	354.d	375	393	
	24.0	181.d	208.d	236.d	266.d	298.d	332.d	357	374	
	24.5	170.d	195.d	222.d	250.d	280.d	312.d	340	356	
	25.0	160.d	184.d	209.d	235.d	263.d	294.d	324	339	
	25.5	151.d	173.d	196.d	221.d	248.d	277.d	307.d	323	
	26.0	143.d	163.d	185.d	209.d	234.d	261.d	290.d	307	
	26.5	135.d	154.d	175.d	197.d	221.d	247.d	274.d	293	
	27.0	127.d	146.d	166.d	187.d	209.d	233.d	259.d	280	
	27.5	121.d	138.d	157.d	177.d	198.d	221.d	245.d	267	
	28.0	114.d	131.d	148.d	167.d	187.d	209.d	232.d	255	
	28.5	108.d	124.d	141.d	159.d	178.d	198.d	220.d	244.d	
	29.0	103.d	118.d	134.d	151.d	169.d	188.d	209.d	231.d	
	29.5	98.d	112.d	127.d	143.d	160.d	179.d	198.d	220.d	
	30.0	93.d	106.d	121.d	136.d	152.d	170.d	189.d	209.d	
	30.5	88.d	101.d	115.d	129.d	145.d	162.d	180.d	199.d	
	31.0	84.d	96.d	109.d	123.d	138.d	154.d	171.d	189.d	
	31.5	80.d	92.d	104.d	117.d	132.d	147.d	163.d	180.d	
	32.0	76.d	88.d	99.d	112.d	126.d	140.d	156.d	172.d	
	32.5	73.d	84.d	95.d	107.d	120.d	134.d	148.d	164.d	
	33.0	70.d	80.d	91.d	102.d	114.d	128.d	142.d	157.d	
	33.5	67.d	76.d	87.d	98.d	109.d	122.d	136.d	150.d	
	34.0	64.d	73.d	83.d	93.d	105.d	117.d	130.d	143.d	
	34.5	61.d	70.d	79.d	89.d	100.d	112.d	124.d	137.d	
	35.0	58.d	67.d	76.d	86.d	96.d	107.d	119.d	131.d	
	35.5	56.d	64.d	73.d	82.d	92.d	103.d	114.d	126.d	
	36.0	54.d	62.d	70.d	79.d	88.d	98.d	109.d	121.d	

TABLE 2: CS210 NWC - #11 REBAR										
Base Steel Thickness = 0.0435"										
#11 Rebar										
IMPERIAL UNITS										
Area of Steel Deck Included										
Normal Weight Concrete = 145 lb/ft³										
SLAB WEIGHT (psf)	54.9	61.0	67.0	73.1	79.1	85.1	91.2	97.2		
CONCRETE VOLUME (yd³/100ft²)	1.26	1.41	1.57	1.72	1.88	2.03	2.18	2.34		
MAX. UNSHORED ONE SPAN (ft)	15.2	14.6	14.0	13.5	13.0	12.6	12.2	11.8		
MAX. UNSHORED TWO SPAN (ft)	11.7	10.8	10.0	9.4	8.8	8.2	7.8	7.4		
MAX. UNSHORED THREE SPAN (ft)	13.3	12.3	11.4	10.6	10.0	9.4	8.8	8.4		
I _u (in⁴)	68.9	79.5	90.7	102.6	115.3	129.0	144	160		
I _c (in⁴)	43.7	49.5	55.7	62.4	69.5	77.1	85.1	93.6		



Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

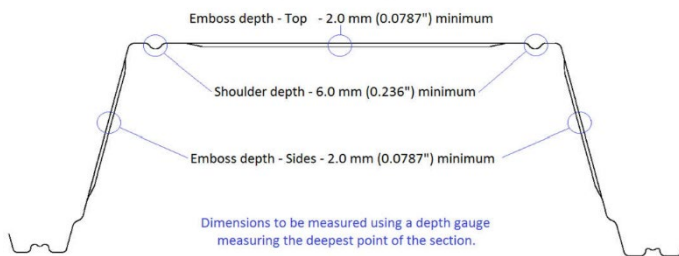
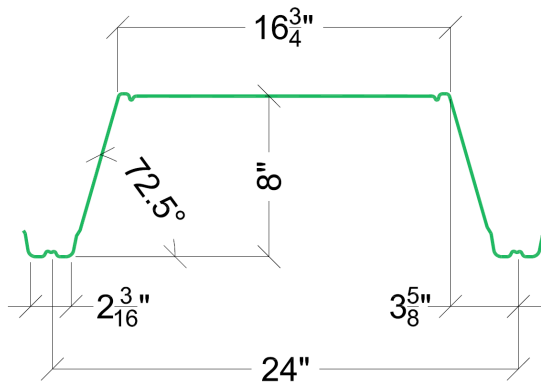
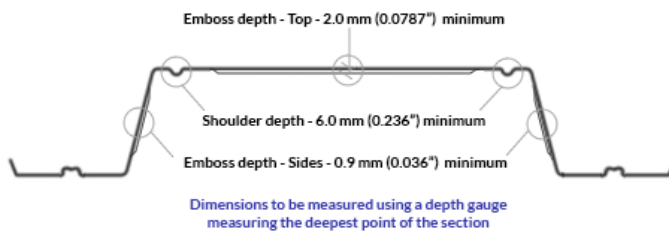
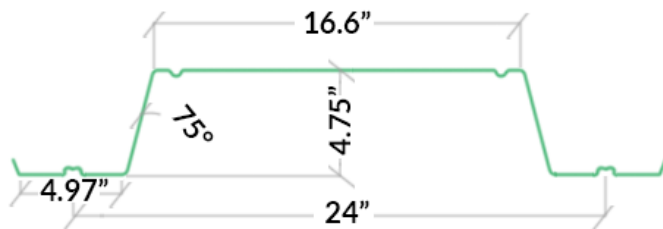


FIGURE 2 – ComSlab 120 Floor Deck





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 3: CS120 LWC - #3 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0375 in.							
Rebar # 3	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	36.7	39.0	43.6	48.1	52.7	57.3	61.9
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.6	12.3	11.7	11.3	10.9	10.5	10.2
MAX. UNSHORED 2 SPAN (ft)	13.3	12.8	11.8	11.0	10.3	9.60	9.10
MAX. UNSHORED 3 SPAN (ft)	14.8	14.4	13.4	12.5	11.6	10.9	10.3
I _u in ⁴	22.5	24.7	29.6	35.1	41.4	48.6	56.6
I _c in ⁴	9.40	10.1	11.7	13.5	15.4	17.4	19.6
DEFL. PARAMETER (LLDP)	251	274	325	382	447	519	599
DEFL. PARAMETER (SWDP)	1.24	1.20	1.12	1.05	0.971	0.900	0.834
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	118	126	140	155	170	185
	15.0	99	106	118	131	143	156
	16.0	84	89	100	110	121	131
	17.0	71	76	85	94	103	112
	18.0	61	64	72	80	87	95
	19.0	52	55	61	68	74	81
	20.0	44	47	52	58	63	69
	21.0			44	49	54	58
	22.0				41	45	49
	23.0					41	45
	24.0						
	25.0						
	26.0						
	27.0						
	28.0						
	29.0						
	30.0						

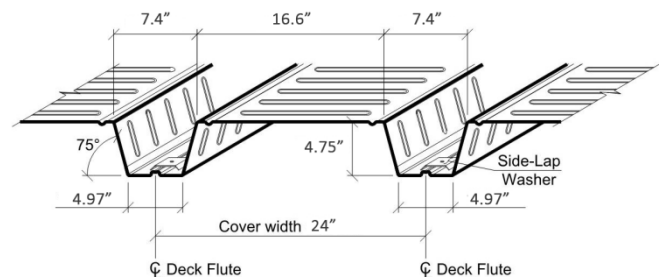
TABLE 3: CS120 LWC - #3 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0435 in.							
Rebar # 3	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	37.1	39.4	43.9	48.5	53.1	57.7	62.3
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	13.5	13.2	12.6	12.1	11.7	11.3	10.9
MAX. UNSHORED 2 SPAN (ft)	15.7	15.3	14.6	14.0	13.1	12.3	11.6
MAX. UNSHORED 3 SPAN (ft)	15.9	15.5	14.8	14.2	13.6	13.2	12.7
I _u in ⁴	22.9	25.1	30.0	35.6	42.0	49.2	57.4
I _c in ⁴	10.0	10.8	12.5	14.4	16.5	18.7	21.1
DEFL. PARAMETER (LLDP)	259	283	335	394	460	534	617
DEFL. PARAMETER (SWDP)	1.24	1.20	1.12	1.04	0.964	0.894	0.828
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	135	143	160	178	195	212
	15.0	114	121	135	150	165	179
	16.0	96	103	115	127	140	152
	17.0	82	88	98	109	119	130
	18.0	70	75	84	93	102	111
	19.0	60	64	72	80	88	95
	20.0	52	55	62	68	75	82
	21.0	44	47	53	59	65	70
	22.0		40	45	50	55	60
	23.0				43	47	51
	24.0					40	44
	25.0						
	26.0						
	27.0						
	28.0						
	29.0						
	30.0						

TABLE 3: CS120 LWC - #3 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0495 in.							
Rebar # 3	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	37.4	39.7	44.3	48.9	53.5	58.1	62.7
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	14.4	14.1	13.4	12.9	12.4	12.0	11.6
MAX. UNSHORED 2 SPAN (ft)	16.5	16.2	15.5	14.9	14.3	13.8	13.4
MAX. UNSHORED 3 SPAN (ft)	16.7	16.4	15.7	15.1	14.5	14.0	13.5
I _u in ⁴	23.3	25.6	30.6	36.3	42.7	50.0	58.2
I _c in ⁴	10.7	11.5	13.4	15.4	17.7	20.1	22.6
DEFL. PARAMETER (LLDP)	267	292	346	407	475	551	636
DEFL. PARAMETER (SWDP)	1.23	1.19	1.11	1.03	0.955	0.886	0.821
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	151	160	180	200	219	239
	15.0	128	136	153	169	186	203
	16.0	109	116	130	144	159	173
	17.0	93	99	111	124	136	148
	18.0	80	85	96	106	117	127
	19.0	69	73	83	92	101	110
	20.0	59	63	71	79	87	95
	21.0	51	55	62	68	75	82
	22.0	44	47	53	59	65	71
	23.0		41	46	51	56	61
	24.0				44	48	53
	25.0					41	45
	26.0						42
	27.0						
	28.0						
	29.0						
	30.0						

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 3: CS120 LWC - #3 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 3: CS120 LWC - #4 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0375 in.							
Rebar # 4	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	36.8	39.1	43.7	48.3	52.9	57.5	62.0
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.6	12.3	11.7	11.3	10.9	10.5	10.2
MAX. UNSHORED 2 SPAN (ft)	13.3	12.8	11.8	11.0	10.2	9.60	9.00
MAX. UNSHORED 3 SPAN (ft)	14.7	14.4	13.4	12.4	11.6	10.9	10.3
I _y in ⁴	22.8	25.1	30.0	35.6	42.0	49.3	57.4
I _e in ⁴	10.0	10.8	12.6	14.5	16.5	18.8	21.2
DEFL. PARAMETER (LLDP)	258	282	335	394	461	535	618
DEFL. PARAMETER (SWDP)	1.23	1.19	1.11	1.03	0.960	0.890	0.824
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	142	151	168	185	202	220
	15.0	120	127	142	157	171	186
	16.0	102	108	121	133	146	158
	17.0	87	93	103	114	125	135
	18.0	75	79	89	98	107	116
	19.0	64	68	76	84	92	100
	20.0	55	59	66	72	79	86
	21.0	48	51	56	62	68	74
	22.0	41	44	48	53	58	63
	23.0			42	46	50	54
	24.0					43	46
	25.0						42
	26.0						
	27.0						
	28.0						
	29.0						
	30.0						

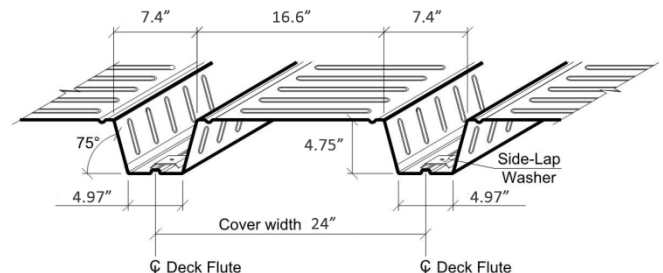
TABLE 3: CS120 LWC - #4 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0435 in.							
Rebar # 4	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	37.2	39.5	44.1	48.7	53.3	57.8	62.4
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	13.5	13.2	12.6	12.1	11.7	11.3	10.9
MAX. UNSHORED 2 SPAN (ft)	15.7	15.3	14.6	14.0	13.1	12.3	11.6
MAX. UNSHORED 3 SPAN (ft)	15.8	15.4	14.8	14.2	13.6	13.2	12.7
I _y in ⁴	23.2	25.5	30.5	36.2	42.6	49.9	58.2
I _e in ⁴	10.6	11.5	13.3	15.4	17.6	20.0	22.6
DEFL. PARAMETER (LLDP)	266	290	344	405	474	550	635
DEFL. PARAMETER (SWDP)	1.23	1.18	1.10	1.03	0.953	0.884	0.819
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	158	168	188	207	227	247
	15.0	134	142	159	176	193	209
	16.0	114	122	136	150	164	179
	17.0	98	104	117	129	141	153
	18.0	85	90	100	111	122	132
	19.0	73	78	87	96	105	114
	20.0	63	67	75	83	91	99
	21.0	55	58	65	72	79	86
	22.0	47	50	56	62	68	74
	23.0	41	44	49	54	59	64
	24.0			42	46	51	55
	25.0					44	48
	26.0						41
	27.0						
	28.0						
	29.0						
	30.0						

TABLE 3: CS120 LWC - #4 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0495 in.							
Rebar # 4	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	37.6	39.9	44.5	49.1	53.6	58.2	62.8
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	14.4	14.0	13.4	12.9	12.4	12.0	11.6
MAX. UNSHORED 2 SPAN (ft)	16.5	16.2	15.5	14.9	14.3	13.8	13.4
MAX. UNSHORED 3 SPAN (ft)	16.7	16.4	15.7	15.1	14.5	14.0	13.5
I _y in ⁴	23.6	25.9	31.0	36.8	43.3	50.7	59.0
I _e in ⁴	11.3	12.2	14.2	16.4	18.8	21.4	24.2
DEFL. PARAMETER (LLDP)	274	300	355	418	488	567	654
DEFL. PARAMETER (SWDP)	1.22	1.17	1.09	1.02	0.945	0.876	0.812
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	174	185	207	229	251	273
	15.0	148	157	176	195	214	233
	16.0	126	135	151	167	183	199
	17.0	109	116	130	144	157	171
	18.0	94	100	112	124	136	148
	19.0	81	87	97	108	118	129
	20.0	71	75	84	94	103	112
	21.0	62	66	73	81	89	97
	22.0	54	57	64	71	78	85
	23.0	47	50	56	62	68	74
	24.0	41	43	48	54	59	64
	25.0			42	47	51	56
	26.0				40	44	48
	27.0						42
	28.0						
	29.0						
	30.0						

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_e is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 3: CS120 LWC - #4 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 3: CS120 LWC - #5 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0375 in.							
Rebar # 5	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	37.0	39.3	43.9	48.5	53.1	57.6	62.2
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.5	12.2	11.7	11.2	10.8	10.5	10.1
MAX. UNSHORED 2 SPAN (ft)	13.3	12.7	11.8	10.9	10.2	9.60	9.00
MAX. UNSHORED 3 SPAN (ft)	14.7	14.4	13.4	12.4	11.6	10.9	10.3
I_u in ⁴	23.2	25.5	30.5	36.2	42.7	50.1	58.4
I_c in ⁴	10.7	11.6	13.5	15.7	18.0	20.4	23.1
DEFL. PARAMETER (LLDP)	267	292	347	408	478	555	641
DEFL. PARAMETER (SWDP)	1.22	1.18	1.10	1.02	0.947	0.878	0.813
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	171	182	202	223	243	284
	15.0	146	154	172	189	207	241
	16.0	125	132	147	162	177	207
	17.0	107	114	126	139	152	178
	18.0	93	98	109	120	131	153
	19.0	80	85	95	104	114	133
	20.0	70	74	82	91	99	115
	21.0	61	64	72	79	86	100
	22.0	53	56	62	69	75	87
	23.0	46	49	54	60	65	76
	24.0	40	42	47	52	56	66
	25.0			41	45	49	57
	26.0				42	46	49
	27.0						42
	28.0						
	29.0						
	30.0						

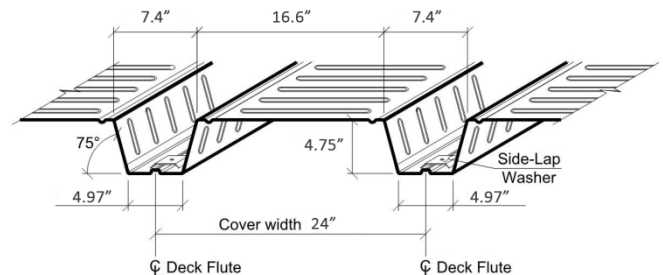
TABLE 3: CS120 LWC - #5 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0435 in.							
Rebar # 5	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	37.4	39.7	44.3	48.9	53.4	58.0	62.6
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	13.5	13.2	12.6	12.1	11.6	11.2	10.9
MAX. UNSHORED 2 SPAN (ft)	15.6	15.2	14.6	14.0	13.1	12.3	11.6
MAX. UNSHORED 3 SPAN (ft)	15.8	15.4	14.7	14.1	13.6	13.1	12.7
I_u in ⁴	23.5	25.8	31.0	36.8	43.3	50.8	59.1
I_c in ⁴	11.3	12.2	14.3	16.5	19.0	21.6	24.5
DEFL. PARAMETER (LLDP)	274	300	356	419	490	569	658
DEFL. PARAMETER (SWDP)	1.21	1.17	1.09	1.01	0.941	0.872	0.808
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	187	199	221	244	267	313
	15.0	159	169	189	208	228	267
	16.0	137	145	162	178	195	229
	17.0	118	125	140	154	168	197
	18.0	102	108	121	133	146	171
	19.0	89	94	105	116	127	149
	20.0	77	82	92	101	111	129
	21.0	68	72	80	88	97	113
	22.0	59	63	70	77	84	99
	23.0	52	55	61	67	74	86
	24.0	45	48	53	59	64	76
	25.0		42	47	51	56	66
	26.0			41	45	49	57
	27.0					43	46
	28.0						43
	29.0						
	30.0						

TABLE 3: CS120 LWC - #5 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0495 in.							
Rebar # 5	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	37.8	40.1	44.7	49.2	53.8	58.4	63.0
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	14.4	14.0	13.4	12.9	12.4	12.0	11.6
MAX. UNSHORED 2 SPAN (ft)	16.5	16.2	15.5	14.9	14.3	13.8	13.4
MAX. UNSHORED 3 SPAN (ft)	16.7	16.3	15.7	15.0	14.5	14.0	13.5
I_u in ⁴	24.0	26.3	31.5	37.4	44.0	51.5	60.0
I_c in ⁴	11.9	12.9	15.1	17.5	20.1	22.9	26.0
DEFL. PARAMETER (LLDP)	282	309	366	431	504	586	676
DEFL. PARAMETER (SWDP)	1.20	1.16	1.08	1.01	0.933	0.865	0.801
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	203	215	240	266	291	342
	15.0	173	184	205	227	248	292
	16.0	148	158	176	195	213	251
	17.0	128	136	152	168	184	217
	18.0	111	118	132	146	160	188
	19.0	97	103	115	127	140	164
	20.0	85	90	101	111	122	143
	21.0	74	79	88	98	107	126
	22.0	65	69	77	86	94	110
	23.0	57	61	68	75	82	97
	24.0	50	53	60	66	72	85
	25.0	44	47	52	58	64	75
	26.0		41	46	51	56	66
	27.0			40	44	49	57
	28.0					43	46
	29.0						40
	30.0						

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 3: CS120 LWC - #5 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 3: CS120 LWC - #6 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0375 in.							
Rebar # 6	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	37.3	39.5	44.1	48.7	53.3	57.9	62.5
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.5	12.2	11.7	11.2	10.8	10.5	10.1
MAX. UNSHORED 2 SPAN (ft)	13.2	12.7	11.7	10.9	10.2	9.60	9.00
MAX. UNSHORED 3 SPAN (ft)	14.7	14.3	13.3	12.4	11.6	10.9	10.2
I _u in ⁴	23.6	25.9	31.1	36.9	43.6	51.1	59.5
I _c in ⁴	11.5	12.5	14.6	17.0	19.5	22.3	25.3
DEFL. PARAMETER (LLDP)	276	302	360	424	497	577	667
DEFL. PARAMETER (SWDP)	1.21	1.16	1.08	1.01	0.933	0.864	0.801
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	206	218	243	267	291	316
	15.0	176	186	207	228	249	269
	16.0	151	160	178	196	214	232
	17.0	131	138	154	169	185	200
	18.0	114	120	134	147	160	174
	19.0	99	105	117	128	140	152
	20.0	87	92	102	112	122	133
	21.0	76	81	89	98	107	116
	22.0	67	71	79	86	94	102
	23.0	59	62	69	76	83	90
	24.0	52	55	61	67	73	79
	25.0	45	48	53	59	64	69
	26.0		42	47	51	56	61
	27.0			41	45	49	53
	28.0				43	46	50
	29.0					40	43
	30.0						

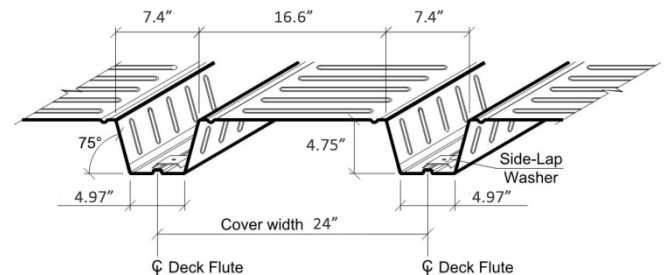
TABLE 3: CS120 LWC - #6 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0495 in.							
Rebar # 6	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	38.0	40.3	44.9	49.5	54.1	58.6	63.2
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	14.3	14.0	13.4	12.8	12.4	11.9	11.6
MAX. UNSHORED 2 SPAN (ft)	16.5	16.1	15.5	14.8	14.3	13.8	13.4
MAX. UNSHORED 3 SPAN (ft)	16.6	16.3	15.6	15.0	14.4	13.9	13.5
I _u in ⁴	24.3	26.7	32.0	38.0	44.8	52.5	61.1
I _c in ⁴	12.7	13.8	16.1	18.8	21.6	24.7	28.1
DEFL. PARAMETER (LLDP)	291	319	379	447	523	607	701
DEFL. PARAMETER (SWDP)	1.19	1.15	1.07	0.992	0.920	0.853	0.790
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	236	251	280	309	338	368
	15.0	202	215	240	265	290	315
	16.0	174	185	206	228	250	271
	17.0	151	160	179	198	216	235
	18.0	132	140	156	172	189	205
	19.0	115	122	137	151	165	179
	20.0	101.d	107	120	133	145	158
	21.0	87.d	95	106	117	128	139
	22.0	76.d	83.d	93	103	113	123
	23.0	66.d	73.d	83	91	100	109
	24.0	58.d	64.d	73	81	88	96
	25.0	52.d	57.d	65	71	78	85
	26.0	46.d	50.d	57	63	69	75
	27.0	41.d	45.d	51	56	61	67
	28.0		40	45	49	54	59
	29.0				44	48	52
	30.0					42	46

TABLE 3: CS120 LWC - #6 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0435 in.							
Rebar # 6	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	37.6	39.9	44.5	49.1	53.7	58.3	62.8
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	13.5	13.1	12.6	12.1	11.6	11.2	10.9
MAX. UNSHORED 2 SPAN (ft)	15.6	15.2	14.5	14.0	13.1	12.3	11.6
MAX. UNSHORED 3 SPAN (ft)	15.8	15.4	14.7	14.1	13.6	13.1	12.7
I _u in ⁴	23.9	26.3	31.5	37.4	44.1	51.7	60.2
I _c in ⁴	12.0	13.1	15.3	17.8	20.5	23.5	26.6
DEFL. PARAMETER (LLDP)	283	310	369	435	509	591	683
DEFL. PARAMETER (SWDP)	1.20	1.16	1.08	1.00	0.927	0.859	0.796
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	221	235	261	288	315	342
	15.0	189	201	223	246	269	292
	16.0	163	173	192	212	232	251
	17.0	141	150	167	184	201	218
	18.0	123	130	145	160	175	189
	19.0	107	114	127	140	153	166
	20.0	94	100	111	122	134	145
	21.0	83	88	98	108	118	128
	22.0	73	77	86	95	104	112
	23.0	64	68	76	84	91	99
	24.0	57	60	67	74	81	87
	25.0	50	53	59	65	71	77
	26.0	44	47	52	57	63	68
	27.0		41	46	51	55	60
	28.0			40	44	49	53
	29.0					43	46
	30.0						40

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 3: CS120 LWC - #6 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 3: CS120 LWC - #7 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0375 in.							
Rebar # 7	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	37.5	39.8	44.4	49.0	53.6	58.1	62.7
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.5	12.2	11.7	11.2	10.8	10.4	10.1
MAX. UNSHORED 2 SPAN (ft)	13.2	12.6	11.7	10.9	10.2	9.50	9.00
MAX. UNSHORED 3 SPAN (ft)	14.7	14.3	13.3	12.4	11.5	10.8	10.2
I _u in ⁴	24.0	26.4	31.7	37.7	44.5	52.1	60.7
I _c in ⁴	12.3	13.4	15.8	18.4	21.3	24.4	27.7
DEFL. PARAMETER (LLDP)	286	313	374	441	517	602	696
DEFL. PARAMETER (SWDP)	1.19	1.15	1.07	0.991	0.919	0.851	0.788
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	245	260	289	318	346	375
	15.0	210	222	247	272	297	321
	16.0	181	192	213	234	256	277
	17.0	157	166	185	204	222	241
	18.0	136.d	145	161	178	194	210
	19.0	116.d	127.d	141	156	170	184
	20.0	99.d	109.d	124	137	149	162
	21.0	86.d	94.d	110	121	132	143
	22.0	75.d	82.d	97	107	116	126
	23.0	65.d	72.d	85.d	95	103	112
	24.0	57.d	63.d	75.d	84	91	99
	25.0	51.d	56.d	66.d	74	81	88
	26.0	45.d	50.d	59.d	66	72	78
	27.0	40.d	44.d	53.d	59	64	69
	28.0			47	52	56	61
	29.0			42	46	50	54
	30.0				40	44	48

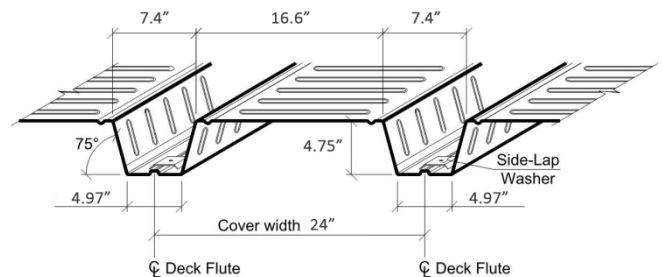
TABLE 3: CS120 LWC - #7 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0435 in.							
Rebar # 7	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	37.9	40.2	44.8	49.4	53.9	58.5	63.1
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	13.4	13.1	12.5	12.0	11.6	11.2	10.9
MAX. UNSHORED 2 SPAN (ft)	15.6	15.2	14.5	13.9	13.0	12.2	11.5
MAX. UNSHORED 3 SPAN (ft)	15.7	15.4	14.7	14.1	13.6	13.1	12.7
I _u in ⁴	24.3	26.8	32.1	38.2	45.0	52.8	61.4
I _c in ⁴	12.8	14.0	16.5	19.2	22.2	25.5	29.0
DEFL. PARAMETER (LLDP)	292	321	382	451	529	615	711
DEFL. PARAMETER (SWDP)	1.19	1.15	1.06	0.986	0.914	0.846	0.783
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	260	276	307	338	370	401
	15.0	223	236	263	290	317	344
	16.0	192	204	227	250	273	297
	17.0	165.d	177	197	217	238	258
	18.0	139.d	153.d	172	190	208	225
	19.0	118.d	130.d	151	167	182	198
	20.0	102.d	111.d	133.d	147	160	174
	21.0	88.d	96.d	115.d	130	142	154
	22.0	76.d	84.d	100.d	115	126	136
	23.0	67.d	73.d	87.d	102	111	121
	24.0	59.d	64.d	77.d	91	99	107
	25.0	52.d	57.d	68.d	80.d	88	96
	26.0	46.d	51.d	60.d	71.d	78	85
	27.0	41.d	45.d	54.d	64.d	70	76
	28.0		41.d	48.d	57	62	67
	29.0			44.d	50	55	60
	30.0				45	49	53

TABLE 3: CS120 LWC - #7 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0495 in.							
Rebar # 7	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	38.3	40.6	45.2	49.7	54.3	58.9	63.5
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	14.3	14.0	13.4	12.8	12.3	11.9	11.6
MAX. UNSHORED 2 SPAN (ft)	16.4	16.1	15.4	14.8	14.3	13.8	13.3
MAX. UNSHORED 3 SPAN (ft)	16.6	16.3	15.6	15.0	14.4	13.9	13.5
I _u in ⁴	24.7	27.2	32.6	38.8	45.7	53.5	62.3
I _c in ⁴	13.4	14.6	17.2	20.1	23.2	26.7	30.3
DEFL. PARAMETER (LLDP)	300	329	392	463	542	631	729
DEFL. PARAMETER (SWDP)	1.18	1.14	1.06	0.979	0.907	0.840	0.778
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	274	291	325	359	392	426
	15.0	235	250	279	308	337	366
	16.0	203	216	241	266	291	316
	17.0	170.d	186.d	209	231	253	275
	18.0	143.d	157.d	183	202	221	240
	19.0	122.d	133.d	159.d	178	194	211
	20.0	104.d	114.d	136.d	157	171	186
	21.0	90.d	99.d	118.d	139	152	165
	22.0	78.d	86.d	102.d	121	135	146
	23.0	69.d	75.d	90.d	106.d	120	130
	24.0	60.d	66.d	79.d	93.d	107	116
	25.0	53.d	59.d	70.d	82.d	95	103
	26.0	47.d	52.d	62.d	73.d	85	92
	27.0	42.d	46.d	55.d	65.d	76	82
	28.0		42.d	50.d	59.d	68	73
	29.0			45.d	53.d	60	65
	30.0			40.d	48.d	54	58

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 3: CS120 LWC - #7 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 3: CS120 LWC - #8 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0375 in.							
Rebar # 8	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	37.8	40.1	44.7	49.3	53.9	58.5	63.0
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.5	12.2	11.6	11.2	10.8	10.4	10.1
MAX. UNSHORED 2 SPAN (ft)	13.1	12.6	11.6	10.8	10.1	9.50	9.00
MAX. UNSHORED 3 SPAN (ft)	14.6	14.3	13.2	12.3	11.5	10.8	10.2
I _u in ⁴	24.4	26.9	32.3	38.5	45.4	53.3	62.1
I _c in ⁴	13.2	14.4	17.0	19.9	23.1	26.5	30.2
DEFL. PARAMETER (LLDP)	296	325	388	459	539	628	726
DEFL. PARAMETER (SWDP)	1.18	1.14	1.06	0.977	0.904	0.837	0.775
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	288	305	339	374	408	442
	15.0	243.d	262	291	321	350	379
	16.0	200.d	220.d	252	277	303	328
	17.0	167.d	184.d	219	241	264	286
	18.0	141.d	155.d	185.d	211	231	250
	19.0	120.d	131.d	157.d	186	203	220
	20.0	103.d	113.d	135.d	159.d	179	194
	21.0	89.d	97.d	116.d	138.d	159	172
	22.0	77.d	85.d	101.d	120.d	141.d	153
	23.0	67.d	74.d	89.d	105.d	123.d	136
	24.0	59.d	65.d	78.d	92.d	108.d	121
	25.0	53.d	58.d	69.d	82.d	96.d	109
	26.0	47.d	51.d	61.d	73.d	85.d	97
	27.0	42.d	46.d	55.d	65.d	76.d	87
	28.0		41.d	49.d	58.d	68.d	78
	29.0			44.d	52.d	61.d	69
	30.0				47.d	55.d	62

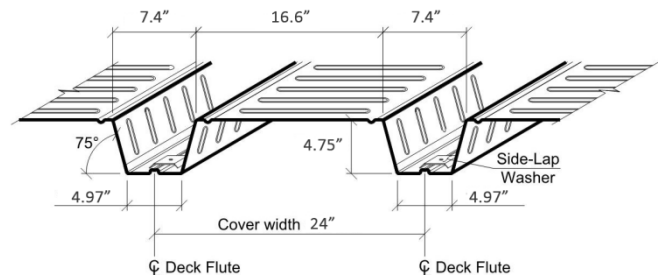
TABLE 3: CS120 LWC - #8 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0435 in.							
Rebar # 8	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	38.2	40.5	45.1	49.7	54.3	58.8	63.4
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	13.4	13.1	12.5	12.0	11.6	11.2	10.8
MAX. UNSHORED 2 SPAN (ft)	15.5	15.2	14.5	13.9	13.0	12.2	11.5
MAX. UNSHORED 3 SPAN (ft)	15.7	15.3	14.7	14.1	13.5	13.1	12.7
I _u in ⁴	24.7	27.2	32.7	39.0	46.0	53.9	62.8
I _c in ⁴	13.7	14.9	17.7	20.7	24.0	27.6	31.4
DEFL. PARAMETER (LLDP)	302	332	396	469	550	641	741
DEFL. PARAMETER (SWDP)	1.18	1.13	1.05	0.972	0.900	0.833	0.771
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	302	320	357	394	430	467
	15.0	249.d	273.d	307	338	370	401
	16.0	205.d	225.d	265	293	320	347
	17.0	171.d	188.d	224.d	255	279	302
	18.0	144.d	158.d	189.d	223	244	265
	19.0	122.d	134.d	161.d	190.d	215	233
	20.0	105.d	115.d	138.d	163.d	190	206
	21.0	91.d	99.d	119.d	141.d	165.d	183
	22.0	79.d	87.d	103.d	122.d	144.d	163
	23.0	69.d	76.d	91.d	107.d	126.d	145
	24.0	61.d	67.d	80.d	94.d	111.d	129
	25.0	54.d	59.d	70.d	83.d	98.d	114
	26.0	48.d	52.d	63.d	74.d	87.d	101
	27.0	43.d	47.d	56.d	66.d	78.d	90
	28.0		42.d	50.d	59.d	70.d	81
	29.0			45.d	53.d	63.d	73
	30.0			41.d	48.d	57.d	66

TABLE 3: CS120 LWC - #8 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0495 in.							
Rebar # 8	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	38.6	40.9	45.5	50.1	54.6	59.2	63.8
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	14.3	13.9	13.3	12.8	12.3	11.9	11.5
MAX. UNSHORED 2 SPAN (ft)	16.4	16.1	15.4	14.8	14.2	13.8	13.3
MAX. UNSHORED 3 SPAN (ft)	16.6	16.2	15.6	15.0	14.4	13.9	13.5
I _u in ⁴	25.1	27.7	33.2	39.5	46.6	54.6	63.6
I _c in ⁴	14.2	15.5	18.4	21.5	25.0	28.7	32.8
DEFL. PARAMETER (LLDP)	310	340	406	480	563	656	758
DEFL. PARAMETER (SWDP)	1.17	1.13	1.04	0.966	0.894	0.827	0.765
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	314.d	335	374	413	452	491
	15.0	255.d	280.d	322	355	389	422
	16.0	210.d	231.d	275.d	308	337	366
	17.0	175.d	192.d	230.d	268	294	319
	18.0	148.d	162.d	193.d	229.d	257	280
	19.0	125.d	138.d	164.d	195.d	227	247
	20.0	108.d	118.d	141.d	167.d	196.d	218
	21.0	93.d	102.d	122.d	144.d	169.d	194
	22.0	81.d	89.d	106.d	125.d	147.d	171
	23.0	71.d	78.d	93.d	110.d	129.d	150
	24.0	62.d	68.d	82.d	97.d	113.d	132
	25.0	55.d	60.d	72.d	85.d	100.d	117
	26.0	49.d	54.d	64.d	76.d	89.d	104
	27.0	44.d	48.d	57.d	68.d	79.d	93
	28.0		43.d	51.d	61.d	71.d	83
	29.0			46.d	55.d	64.d	75
	30.0			42.d	49.d	58.d	67

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 3: CS120 LWC - #8 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 3: CS120 LWC - #9 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0375 in.							
Rebar # 9	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	38.2	40.5	45.1	49.7	54.2	58.8	63.4
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.4	12.1	11.6	11.2	10.8	10.4	10.1
MAX. UNSHORED 2 SPAN (ft)	13.0	12.5	11.6	10.8	10.1	9.50	8.90
MAX. UNSHORED 3 SPAN (ft)	14.6	14.2	13.2	12.3	11.5	10.8	10.1
I _u in ⁴	24.8	27.4	33.0	39.3	46.4	54.5	63.5
I _c in ⁴	14.0	15.4	18.3	21.5	25.0	28.8	32.9
DEFL. PARAMETER (LLDP)	306	336	403	478	562	655	758
DEFL. PARAMETER (SWDP)	1.17	1.13	1.04	0.963	0.891	0.824	0.762
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	309.d	340.d	395	436	476	516
	15.0	252.d	277.d	332.d	375	409	444
	16.0	207.d	228.d	273.d	324.d	355	385
	17.0	173.d	190.d	228.d	270.d	310	336
	18.0	146.d	160.d	192.d	228.d	268.d	295
	19.0	124.d	136.d	163.d	194.d	228.d	260
	20.0	106.d	117.d	140.d	166.d	195.d	227.d
	21.0	92.d	101.d	121.d	143.d	169.d	196.d
	22.0	80.d	88.d	105.d	125.d	147.d	171.d
	23.0	70.d	77.d	92.d	109.d	128.d	150.d
	24.0	61.d	68.d	81.d	96.d	113.d	132.d
	25.0	54.d	60.d	72.d	85.d	100.d	116.d
	26.0	48.d	53.d	64.d	76.d	89.d	104.d
	27.0	43.d	47.d	57.d	67.d	79.d	92.d
	28.0		43.d	51.d	60.d	71.d	83.d
	29.0			46.d	54.d	64.d	75.d
	30.0			41.d	49.d	58.d	67.d

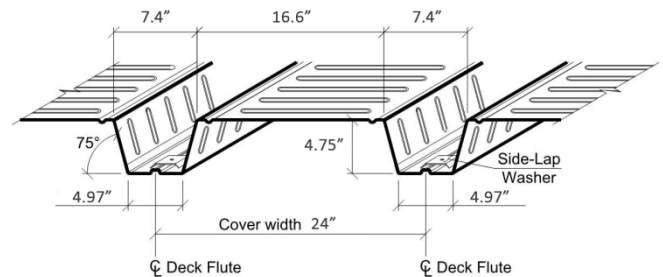
TABLE 3: CS120 LWC - #9 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0495 in.							
Rebar # 9	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	39.0	41.3	45.8	50.4	55.0	59.6	64.2
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	14.2	13.9	13.3	12.8	12.3	11.9	11.5
MAX. UNSHORED 2 SPAN (ft)	16.4	16.0	15.4	14.8	14.2	13.7	13.3
MAX. UNSHORED 3 SPAN (ft)	16.5	16.2	15.5	14.9	14.4	13.9	13.4
I _u in ⁴	25.6	28.2	33.9	40.3	47.6	55.8	65.0
I _c in ⁴	15.1	16.5	19.6	23.0	26.8	30.9	35.3
DEFL. PARAMETER (LLDP)	320	351	421	498	585	682	789
DEFL. PARAMETER (SWDP)	1.16	1.12	1.03	0.953	0.881	0.814	0.753
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	323.d	356.d	426.d	474	519	564
	15.0	263.d	289.d	346.d	408	447	486
	16.0	217.d	238.d	285.d	338.d	388	422
	17.0	181.d	199.d	238.d	282.d	331.d	368
	18.0	152.d	167.d	200.d	237.d	279.d	324
	19.0	129.d	142.d	170.d	202.d	237.d	276.d
	20.0	111.d	122.d	146.d	173.d	203.d	237.d
	21.0	96.d	105.d	126.d	149.d	176.d	205.d
	22.0	83.d	92.d	110.d	130.d	153.d	178.d
	23.0	73.d	80.d	96.d	114.d	134.d	156.d
	24.0	64.d	71.d	85.d	100.d	118.d	137.d
	25.0	57.d	62.d	75.d	89.d	104.d	121.d
	26.0	51.d	56.d	66.d	79.d	92.d	108.d
	27.0	45.d	50.d	59.d	70.d	83.d	96.d
	28.0	40.d	44.d	53.d	63.d	74.d	86.d
	29.0		40.d	48.d	57.d	67.d	78.d
	30.0			43.d	51.d	60.d	70.d

TABLE 3: CS120 LWC - #9 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0435 in.							
Rebar # 9	Light Weight Concrete = 110 lb/ft ³						
SLAB WEIGHT (psf)	38.6	40.9	45.5	50.0	54.6	59.2	63.8
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	13.4	13.0	12.5	12.0	11.6	11.2	10.8
MAX. UNSHORED 2 SPAN (ft)	15.5	15.1	14.5	13.8	12.9	12.2	11.5
MAX. UNSHORED 3 SPAN (ft)	15.7	15.3	14.6	14.0	13.5	13.1	12.6
I _u in ⁴	25.2	27.7	33.4	39.8	47.0	55.1	64.2
I _c in ⁴	14.5	15.9	18.9	22.2	25.8	29.8	34.1
DEFL. PARAMETER (LLDP)	312	343	411	487	573	668	773
DEFL. PARAMETER (SWDP)	1.17	1.12	1.04	0.959	0.887	0.820	0.758
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	316.d	347.d	412	455	498	540
	15.0	257.d	282.d	338.d	391	428	465
	16.0	212.d	233.d	279.d	331.d	371	403
	17.0	176.d	194.d	232.d	276.d	324.d	352
	18.0	149.d	163.d	196.d	232.d	273.d	309
	19.0	126.d	139.d	167.d	197.d	232.d	270.d
	20.0	108.d	119.d	143.d	169.d	199.d	232.d
	21.0	94.d	103.d	123.d	146.d	172.d	200.d
	22.0	81.d	90.d	107.d	127.d	149.d	174.d
	23.0	71.d	78.d	94.d	111.d	131.d	152.d
	24.0	63.d	69.d	83.d	98.d	115.d	134.d
	25.0	55.d	61.d	73.d	87.d	102.d	119.d
	26.0	49.d	54.d	65.d	77.d	91.d	106.d
	27.0	44.d	48.d	58.d	69.d	81.d	94.d
	28.0		43.d	52.d	62.d	72.d	84.d
	29.0			47.d	56.d	65.d	76.d
	30.0			42.d	50.d	59.d	69.d

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 3: CS120 LWC - #9 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

Rebar # 3	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	47.5	50.5	56.6	62.6	68.7	74.7	80.7
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	11.3	11.1	10.6	10.1	9.70	9.40	9.10
MAX. UNSHORED 2 SPAN (ft)	11.1	10.6	9.70	9.00	8.30	7.80	7.30
MAX. UNSHORED 3 SPAN (ft)	12.6	12.0	11.0	10.2	9.50	8.90	8.30
I _u in ⁴	22.5	24.7	29.6	35.1	41.4	48.6	56.6
I _c in ⁴	9.40	10.1	11.7	13.5	15.4	17.4	19.6
DEFL. PARAMETER (LLDP)	251	274	325	382	447	519	599
DEFL. PARAMETER (SWDP)	1.61	1.56	1.46	1.36	1.26	1.17	1.09
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	110	117	131	144	158	172
	15.0	91	97	108	120	131	142
	16.0	76	81	90	100	109	118
	17.0	63	67	75	83	91	99
	18.0	52	56	62	69	75	82
	19.0	43	46	52	57	62	68
	20.0			42	47	51	56
	21.0					42	45
	22.0						
	23.0						
	24.0						
	25.0						
	26.0						
	27.0						
	28.0						
	29.0						
	30.0						

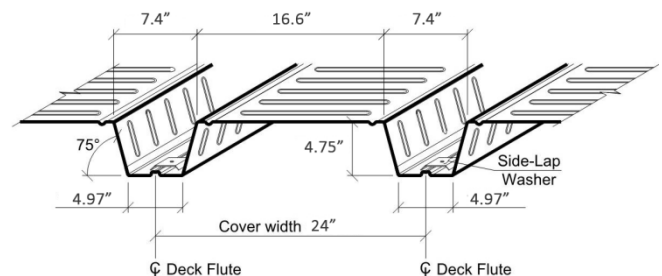
Rebar # 3	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	47.9	50.9	57.0	63.0	69.0	75.1	81.1
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.2	11.9	11.3	10.9	10.4	10.1	9.70
MAX. UNSHORED 2 SPAN (ft)	14.1	13.6	12.5	11.5	10.7	10.0	9.40
MAX. UNSHORED 3 SPAN (ft)	14.2	13.9	13.2	12.7	12.2	11.4	10.7
I _u in ⁴	22.9	25.1	30.0	35.6	42.0	49.2	57.4
I _c in ⁴	10.0	10.8	12.5	14.4	16.5	18.7	21.1
DEFL. PARAMETER (LLDP)	259	283	335	394	460	534	617
DEFL. PARAMETER (SWDP)	1.60	1.55	1.45	1.35	1.25	1.16	1.08
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	126	134	151	167	183	199
	15.0	105	112	126	139	153	166
	16.0	88	94	105	117	128	139
	17.0	74	79	88	98	107	117
	18.0	62	66	74	82	90	98
	19.0	52	56	62	69	76	82
	20.0	44	46	52	58	63	69
	21.0			43	48	53	57
	22.0					43	47
	23.0						41
	24.0						
	25.0						
	26.0						
	27.0						
	28.0						
	29.0						
	30.0						

Rebar # 3	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	48.3	51.3	57.3	63.4	69.4	75.5	81.5
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	13.0	12.6	12.1	11.5	11.1	10.7	10.4
MAX. UNSHORED 2 SPAN (ft)	15.0	14.6	13.9	13.3	12.8	12.3	11.7
MAX. UNSHORED 3 SPAN (ft)	15.1	14.8	14.1	13.5	12.9	12.5	12.1
I _u in ⁴	23.3	25.6	30.6	36.3	42.7	50.0	58.2
I _c in ⁴	10.7	11.5	13.4	15.4	17.7	20.1	22.6
DEFL. PARAMETER (LLDP)	267	292	346	407	475	551	636
DEFL. PARAMETER (SWDP)	1.58	1.53	1.43	1.33	1.24	1.15	1.07
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	142	152	170	189	208	226
	15.0	119	127	143	158	174	190
	16.0	101	107	120	134	147	160
	17.0	85	91	102	113	124	135
	18.0	72	77	86	96	105	114
	19.0	61	65	73	81	89	97
	20.0	51	55	62	68	75	82
	21.0	43	46	52	58	63	69
	22.0			43	48	53	58
	23.0				40	44	48
	24.0						43
	25.0						
	26.0						
	27.0						
	28.0						
	29.0						
	30.0						

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 4: CS120 NWC - #3 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 4: CS120 NWC - #4 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0375 in.							
Rebar # 4	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	47.7	50.7	56.7	62.8	68.8	74.8	80.9
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	11.3	11.0	10.5	10.1	9.70	9.40	9.10
MAX. UNSHORED 2 SPAN (ft)	11.1	10.6	9.70	9.00	8.30	7.80	7.30
MAX. UNSHORED 3 SPAN (ft)	12.6	12.0	11.0	10.2	9.50	8.80	8.30
I _u in ⁴	22.8	25.1	30.0	35.6	42.0	49.3	57.4
I _c in ⁴	10.0	10.8	12.6	14.5	16.5	18.8	21.2
DEFL. PARAMETER (LLDP)	258	282	335	394	461	535	618
DEFL. PARAMETER (SWDP)	1.59	1.54	1.44	1.34	1.25	1.16	1.08
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	134	142	158	174	191	207
	15.0	112	119	132	146	159	173
	16.0	94	100	111	122	134	145
	17.0	79	84	94	103	113	122
	18.0	67	71	79	87	95	103
	19.0	56	60	66	73	80	87
	20.0	47	50	56	61	67	73
	21.0		42	47	51	56	61
	22.0				43	46	50
	23.0					41	44
	24.0						
	25.0						
	26.0						
	27.0						
	28.0						
	29.0						
	30.0						

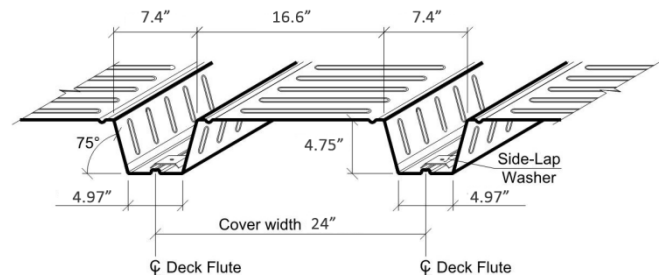
TABLE 4: CS120 NWC - #4 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0435 in.							
Rebar # 4	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	48.0	51.1	57.1	63.1	69.2	75.2	81.3
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.2	11.9	11.3	10.9	10.4	10.1	9.70
MAX. UNSHORED 2 SPAN (ft)	14.1	13.6	12.4	11.5	10.7	10.0	9.40
MAX. UNSHORED 3 SPAN (ft)	14.2	13.9	13.2	12.7	12.1	11.4	10.7
I _u in ⁴	23.2	25.5	30.5	36.2	42.6	49.9	58.2
I _c in ⁴	10.6	11.5	13.3	15.4	17.6	20.0	22.6
DEFL. PARAMETER (LLDP)	266	290	344	405	474	550	635
DEFL. PARAMETER (SWDP)	1.58	1.53	1.43	1.33	1.24	1.15	1.07
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	150	159	178	196	215	234
	15.0	126	134	149	165	181	196
	16.0	106	113	126	139	153	166
	17.0	90	96	107	118	129	140
	18.0	76	81	91	100	110	119
	19.0	65	69	77	85	93	101
	20.0	55	58	65	72	79	86
	21.0	47	49	55	61	67	73
	22.0		42	47	51	56	61
	23.0				43	47	51
	24.0					42	46
	25.0						
	26.0						
	27.0						
	28.0						
	29.0						
	30.0						

TABLE 4: CS120 NWC - #4 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0495 in.							
Rebar # 4	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	48.4	51.4	57.5	63.5	69.6	75.6	81.6
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.9	12.6	12.0	11.5	11.1	10.7	10.3
MAX. UNSHORED 2 SPAN (ft)	15.0	14.6	13.9	13.3	12.8	12.3	11.7
MAX. UNSHORED 3 SPAN (ft)	15.1	14.7	14.1	13.5	12.9	12.5	12.1
I _u in ⁴	23.6	25.9	31.0	36.8	43.3	50.7	59.0
I _c in ⁴	11.3	12.2	14.2	16.4	18.8	21.4	24.2
DEFL. PARAMETER (LLDP)	274	300	355	418	488	567	654
DEFL. PARAMETER (SWDP)	1.56	1.51	1.42	1.32	1.23	1.14	1.06
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	166	176	197	218	239	260
	15.0	140	149	166	184	202	220
	16.0	118	126	141	156	171	186
	17.0	101	107	120	133	146	158
	18.0	86	91	102	113	124	135
	19.0	73	78	87	97	106	115
	20.0	63	67	75	83	91	99
	21.0	53	57	64	71	77	84
	22.0	45	48	54	60	66	72
	23.0		41	46	51	56	61
	24.0				43	47	51
	25.0					43	46
	26.0						
	27.0						
	28.0						
	29.0						
	30.0						

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 4: CS120 NWC - #4 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

Base Steel Thickness = 0.0375 in.							
Rebar # 5	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	47.8	50.9	56.9	62.9	69.0	75.0	81.1
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	11.3	11.0	10.5	10.1	9.70	9.40	9.10
MAX. UNSHORED 2 SPAN (ft)	11.0	10.5	9.70	8.90	8.30	7.80	7.30
MAX. UNSHORED 3 SPAN (ft)	12.5	12.0	11.0	10.2	9.50	8.80	8.30
I _u in ⁴	23.2	25.5	30.5	36.2	42.7	50.1	58.4
I _c in ⁴	10.7	11.6	13.5	15.7	18.0	20.4	23.1
DEFL. PARAMETER (LLDP)	267	292	347	408	478	555	641
DEFL. PARAMETER (SWDP)	1.58	1.52	1.42	1.33	1.23	1.14	1.06
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	163	173	192	212	231	251
	15.0	138	146	162	178	195	211
	16.0	117	123	137	151	165	179
	17.0	99	105	117	128	140	152
	18.0	85	90	100	109	119	129
	19.0	72	76	85	93	102	110
	20.0	62	65	72	80	87	94
	21.0	53	56	62	68	74	80
	22.0	45	47	53	58	63	68
	23.0		40	44	49	53	57
	24.0				41	45	48
	25.0						43
	26.0						
	27.0						
	28.0						
	29.0						
	30.0						

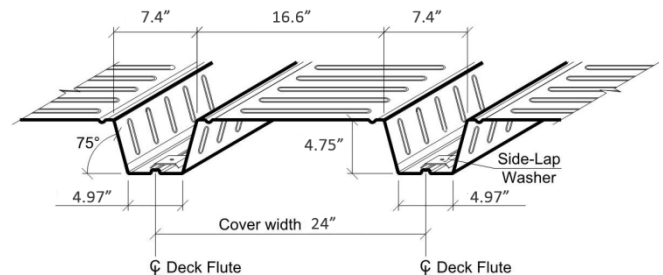
Base Steel Thickness = 0.0495 in.							
Rebar # 5	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	48.6	51.6	57.7	63.7	69.8	75.8	81.8
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.9	12.6	12.0	11.5	11.1	10.7	10.3
MAX. UNSHORED 2 SPAN (ft)	14.9	14.6	13.9	13.3	12.8	12.3	11.6
MAX. UNSHORED 3 SPAN (ft)	15.1	14.7	14.0	13.5	12.9	12.5	12.1
I _u in ⁴	24.0	26.3	31.5	37.4	44.0	51.5	60.0
I _c in ⁴	11.9	12.9	15.1	17.5	20.1	22.9	26.0
DEFL. PARAMETER (LLDP)	282	309	366	431	504	586	676
DEFL. PARAMETER (SWDP)	1.55	1.50	1.40	1.30	1.21	1.12	1.04
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	194	207	231	255	279	303
	15.0	165	175	195	216	236	257
	16.0	140	149	167	184	201	219
	17.0	120	128	143	158	173	187
	18.0	103	110	122	135	148	161
	19.0	89	94	106	117	128	139
	20.0	77	81	91	101	110	120
	21.0	66	70	79	87	95	103
	22.0	57	61	68	75	82	89
	23.0	49	52	58	64	71	77
	24.0	42	45	50	55	60	66
	25.0			43	47	52	56
	26.0					44	48
	27.0						40
	28.0						
	29.0						
	30.0						

Base Steel Thickness = 0.0435 in.							
Rebar # 5	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	48.2	51.2	57.3	63.3	69.4	75.4	81.5
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.2	11.9	11.3	10.8	10.4	10.1	9.70
MAX. UNSHORED 2 SPAN (ft)	14.1	13.5	12.4	11.5	10.7	10.0	9.40
MAX. UNSHORED 3 SPAN (ft)	14.2	13.9	13.2	12.7	12.1	11.3	10.6
I _u in ⁴	23.5	25.8	31.0	36.8	43.3	50.8	59.1
I _c in ⁴	11.3	12.2	14.3	16.5	19.0	21.6	24.5
DEFL. PARAMETER (LLDP)	274	300	356	419	490	569	658
DEFL. PARAMETER (SWDP)	1.56	1.51	1.41	1.31	1.22	1.13	1.05
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	179	190	212	234	255	277
	15.0	151	160	179	197	216	234
	16.0	129	136	152	168	183	199
	17.0	110	116	130	143	156	170
	18.0	94	100	111	122	134	145
	19.0	81	86	95	105	115	125
	20.0	69	73	82	90	99	107
	21.0	59	63	70	77	85	92
	22.0	51	54	60	66	72	79
	23.0	44	46	51	57	62	67
	24.0			44	48	53	57
	25.0				41	44	48
	26.0						40
	27.0						
	28.0						
	29.0						
	30.0						

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 4: CS120 NWC - #5 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 4: CS120 NWC - #6 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0375 in.							
Rebar # 6	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	48.1	51.1	57.1	63.2	69.2	75.3	81.3
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	11.3	11.0	10.5	10.1	9.70	9.40	9.10
MAX. UNSHORED 2 SPAN (ft)	11.0	10.5	9.70	8.90	8.30	7.80	7.30
MAX. UNSHORED 3 SPAN (ft)	12.5	12.0	11.0	10.1	9.40	8.80	8.30
I _u in ⁴	23.6	25.9	31.1	36.9	43.6	51.1	59.5
I _c in ⁴	11.5	12.5	14.6	17.0	19.5	22.3	25.3
DEFL. PARAMETER (LLDP)	276	302	360	424	497	577	667
DEFL. PARAMETER (SWDP)	1.56	1.50	1.40	1.31	1.21	1.12	1.04
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	198	210	233	256	279	303
	15.0	168	178	197	217	237	256
	16.0	143	151	168	185	202	218
	17.0	123	130	144	158	173	187
	18.0	106	112	124	136	148	161
	19.0	91	96	107	117	128	139
	20.0	79	83	92	101	110	119
	21.0	68	72	80	87	95	103
	22.0	59	62	69	76	82	89
	23.0	51	54	59	65	71	77
	24.0	44	46	51	56	61	66
	25.0			44	48	52	56
	26.0				41	44	48
	27.0						40
	28.0						
	29.0						
	30.0						

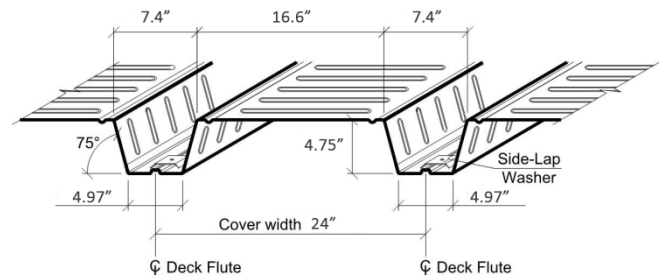
TABLE 4: CS120 NWC - #6 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0435 in.							
Rebar # 6	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	48.5	51.5	57.5	63.6	69.6	75.6	81.7
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.1	11.8	11.3	10.8	10.4	10.1	9.70
MAX. UNSHORED 2 SPAN (ft)	14.0	13.5	12.4	11.5	10.7	10.0	9.30
MAX. UNSHORED 3 SPAN (ft)	14.2	13.8	13.2	12.6	12.1	11.3	10.6
I _u in ⁴	23.9	26.3	31.5	37.4	44.1	51.7	60.2
I _c in ⁴	12.0	13.1	15.3	17.8	20.5	23.5	26.6
DEFL. PARAMETER (LLDP)	283	310	369	435	509	591	683
DEFL. PARAMETER (SWDP)	1.55	1.49	1.39	1.30	1.20	1.12	1.03
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	213	226	252	277	303	329
	15.0	181	192	214	235	257	279
	16.0	155	164	183	201	220	238
	17.0	133	141	157	173	189	205
	18.0	115	121	135	149	163	176
	19.0	99	105	117	129	141	153
	20.0	86	91	101	112	122	132
	21.0	75	79	88	97	106	115
	22.0	65	69	76	84	92	99
	23.0	56	59	66	73	79	86
	24.0	49	51	57	63	69	74
	25.0	42	44	49	54	59	64
	26.0			42	47	51	55
	27.0					43	47
	28.0						43
	29.0						
	30.0						

TABLE 4: CS120 NWC - #6 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0495 in.							
Rebar # 6	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	48.8	51.9	57.9	63.9	70.0	76.0	82.1
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.9	12.6	12.0	11.5	11.1	10.7	10.3
MAX. UNSHORED 2 SPAN (ft)	14.9	14.5	13.9	13.3	12.8	12.3	11.6
MAX. UNSHORED 3 SPAN (ft)	15.1	14.7	14.0	13.4	12.9	12.5	12.0
I _u in ⁴	24.3	26.7	32.0	38.0	44.8	52.5	61.1
I _c in ⁴	12.7	13.8	16.1	18.8	21.6	24.7	28.1
DEFL. PARAMETER (LLDP)	291	319	379	447	523	607	701
DEFL. PARAMETER (SWDP)	1.53	1.48	1.38	1.28	1.19	1.11	1.03
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	228	242	270	298	326	355
	15.0	194	206	230	254	278	301
	16.0	166	176	197	217	238	258
	17.0	143	152	169	187	204	222
	18.0	124	131	146	162	177	192
	19.0	107	114	127	140	153	166
	20.0	93	99	110	122	133	145
	21.0	81	86	96	106	116	126
	22.0	71	75	84	92	101	110
	23.0	61	65	73	80	88	95
	24.0	53	57	63	70	76	83
	25.0	46	49	55	61	66	72
	26.0	40	43	48	52	57	62
	27.0			41	45	49	54
	28.0					42	46
	29.0						42
	30.0						

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 4: CS120 NWC - #6 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

Rebar # 7	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	48.3	51.4	57.4	63.5	69.5	75.5	81.6
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	11.3	11.0	10.5	10.1	9.70	9.40	9.10
MAX. UNSHORED 2 SPAN (ft)	11.0	10.5	9.60	8.90	8.30	7.70	7.30
MAX. UNSHORED 3 SPAN (ft)	12.5	11.9	10.9	10.1	9.40	8.80	8.30
I _u in ⁴	24.0	26.4	31.7	37.7	44.5	52.1	60.7
I _c in ⁴	12.3	13.4	15.8	18.4	21.3	24.4	27.7
DEFL. PARAMETER (LLDP)	286	313	374	441	517	602	696
DEFL. PARAMETER (SWDP)	1.54	1.48	1.38	1.28	1.19	1.11	1.03
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	237	251	279	307	334	390
	15.0	202	214	237	261	285	332
	16.0	173	183	203	224	244	284
	17.0	149	158	175	193	210	245
	18.0	129	137	152	167	182	212
	19.0	112	119	132	145	158	184
	20.0	98	103	115	126	137	160
	21.0	85	90	100	110	120	139
	22.0	74	79	87	96	104	122
	23.0	65	69	76	84	91	106
	24.0	57	60	66	73	79	92
	25.0	49	52	58	64	69	80
	26.0	43	45	50	55	60	70
	27.0			43	48	52	60
	28.0				41	45	52
	29.0					41	44
	30.0						

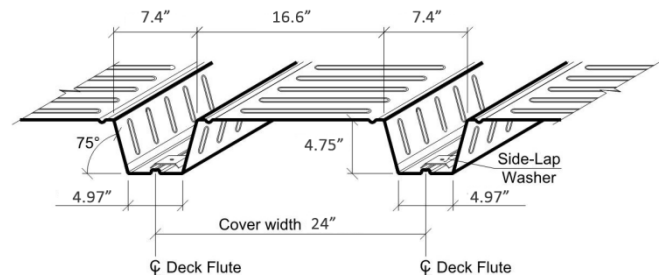
Rebar # 7	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	48.7	51.7	57.8	63.8	69.9	75.9	82.0
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.1	11.8	11.3	10.8	10.4	10.0	9.70
MAX. UNSHORED 2 SPAN (ft)	14.0	13.4	12.4	11.4	10.6	9.90	9.30
MAX. UNSHORED 3 SPAN (ft)	14.2	13.8	13.2	12.6	12.1	11.3	10.6
I _u in ⁴	24.3	26.8	32.1	38.2	45.0	52.8	61.4
I _c in ⁴	12.8	14.0	16.5	19.2	22.2	25.5	29.0
DEFL. PARAMETER (LLDP)	292	321	382	451	529	615	711
DEFL. PARAMETER (SWDP)	1.53	1.48	1.37	1.28	1.18	1.10	1.02
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	252	267	297	327	358	418
	15.0	215	227	253	279	305	356
	16.0	184	195	217	239	262	306
	17.0	159	168	188	207	226	264
	18.0	138	146	163	179	196	229
	19.0	118.d	127	141	156	170	199
	20.0	102.d	111	123	136	149	174
	21.0	88.d	96.d	108	119	130	152
	22.0	76.d	84.d	95	104	114	133
	23.0	67.d	73.d	83	91	100	116
	24.0	59.d	64.d	73	80	87	102
	25.0	52.d	57.d	63	70	76	89
	26.0	46.d	50	55	61	66	78
	27.0	41	43	48	53	58	67
	28.0			42	46	50	58
	29.0					43	47
	30.0						43

Rebar # 7	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	49.1	52.1	58.2	64.2	70.3	76.3	82.3
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.9	12.6	12.0	11.5	11.1	10.7	10.3
MAX. UNSHORED 2 SPAN (ft)	14.9	14.5	13.8	13.3	12.8	12.3	11.6
MAX. UNSHORED 3 SPAN (ft)	15.1	14.7	14.0	13.4	12.9	12.4	12.0
I _u in ⁴	24.7	27.2	32.6	38.8	45.7	53.5	62.3
I _c in ⁴	13.4	14.6	17.2	20.1	23.2	26.7	30.3
DEFL. PARAMETER (LLDP)	300	329	392	463	542	631	729
DEFL. PARAMETER (SWDP)	1.51	1.46	1.36	1.26	1.17	1.09	1.01
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	266	282	315	348	380	446
	15.0	227	241	269	297	325	380
	16.0	195	207	231	255	279	327
	17.0	169	179	200	220	241	282
	18.0	143.d	155	173	191	209	245
	19.0	122.d	133.d	151	167	182	214
	20.0	104.d	114.d	132	146	160	187
	21.0	90.d	99.d	116	128	140	164
	22.0	78.d	86.d	102	112	123	144
	23.0	69.d	75.d	89	99	108	126
	24.0	60.d	66.d	78	87	95	111
	25.0	53.d	59.d	69	76	83	97
	26.0	47.d	52.d	60	67	73	85
	27.0	42.d	46.d	53	58	64	75
	28.0		41	46	51	56	65
	29.0				44	48	57
	30.0					42	49

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 4: CS120 NWC - #7 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

TABLE 4: CS120 NWC - #8 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0375 in.							
Rebar # 8	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	48.7	51.7	57.7	63.8	69.8	75.8	81.9
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	11.3	11.0	10.5	10.1	9.70	9.30	9.00
MAX. UNSHORED 2 SPAN (ft)	10.9	10.5	9.60	8.90	8.30	7.70	7.20
MAX. UNSHORED 3 SPAN (ft)	12.4	11.9	10.9	10.1	9.40	8.80	8.20
I _u in ⁴	24.4	26.9	32.3	38.5	45.4	53.3	62.1
I _c in ⁴	13.2	14.4	17.0	19.9	23.1	26.5	30.2
DEFL. PARAMETER (LLDP)	296	325	388	459	539	628	726
DEFL. PARAMETER (SWDP)	1.52	1.47	1.36	1.26	1.17	1.09	1.01
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	280	296	330	363	396	429
	15.0	239	253	281	310	338	366
	16.0	200.d	218	242	266	291	315
	17.0	167.d	184.d	210	231	252	273
	18.0	141.d	155.d	182	201	219	237
	19.0	120.d	131.d	157.d	175	191	207
	20.0	103.d	113.d	135.d	153	167	181
	21.0	89.d	97.d	116.d	135	147	159
	22.0	77.d	85.d	101.d	118	129	140
	23.0	67.d	74.d	89.d	104	114	123
	24.0	59.d	65.d	78.d	92	100	108
	25.0	53.d	58.d	69.d	81	88	95
	26.0	47.d	51.d	61.d	71	78	84
	27.0	42.d	46.d	55.d	63	68	74
	28.0		41.d	49.d	55	60	65
	29.0			44	48	52	56
	30.0				42	45	49

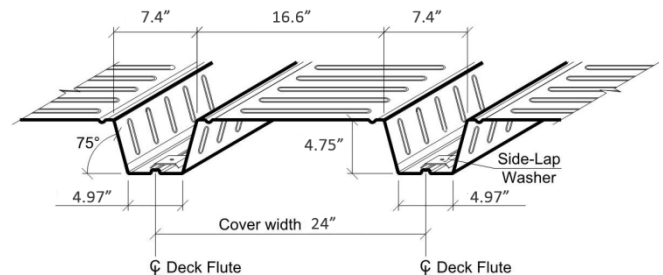
TABLE 4: CS120 NWC - #8 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0435 in.							
Rebar # 8	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	49.0	52.1	58.1	64.1	70.2	76.2	82.3
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.1	11.8	11.3	10.8	10.4	10.0	9.70
MAX. UNSHORED 2 SPAN (ft)	14.0	13.4	12.3	11.4	10.6	9.90	9.30
MAX. UNSHORED 3 SPAN (ft)	14.1	13.8	13.2	12.6	12.0	11.3	10.6
I _u in ⁴	24.7	27.2	32.7	39.0	46.0	53.9	62.8
I _c in ⁴	13.7	14.9	17.7	20.7	24.0	27.6	31.4
DEFL. PARAMETER (LLDP)	302	332	396	469	550	641	741
DEFL. PARAMETER (SWDP)	1.51	1.46	1.35	1.26	1.16	1.08	1.00
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	294	312	347	383	418	454
	15.0	249.d	266	297	327	358	388
	16.0	205.d	225.d	256	282	308	334
	17.0	171.d	188.d	221	244	267	289
	18.0	144.d	158.d	189.d	213	232	252
	19.0	122.d	134.d	161.d	186	203	220
	20.0	105.d	115.d	138.d	163.d	178	193
	21.0	91.d	99.d	119.d	141.d	157	170
	22.0	79.d	87.d	103.d	122.d	138	150
	23.0	69.d	76.d	91.d	107.d	122	132
	24.0	61.d	67.d	80.d	94.d	108	117
	25.0	54.d	59.d	70.d	83.d	95	103
	26.0	48.d	52.d	63.d	74.d	84	91
	27.0	43.d	47.d	56.d	66.d	74	80
	28.0		42.d	50.d	59.d	65	71
	29.0			45.d	52	57	62
	30.0			41.d	46	50	54

TABLE 4: CS120 NWC - #8 REBAR							
IMPERIAL UNITS							
Base Steel Thickness = 0.0495 in.							
Rebar # 8	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	49.4	52.4	58.5	64.5	70.6	76.6	82.7
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.9	12.5	12.0	11.5	11.0	10.7	10.3
MAX. UNSHORED 2 SPAN (ft)	14.9	14.5	13.8	13.2	12.7	12.3	11.6
MAX. UNSHORED 3 SPAN (ft)	15.0	14.7	14.0	13.4	12.9	12.4	12.0
I _u in ⁴	25.1	27.7	33.2	39.5	46.6	54.6	63.6
I _c in ⁴	14.2	15.5	18.4	21.5	25.0	28.7	32.8
DEFL. PARAMETER (LLDP)	310	340	406	480	563	656	758
DEFL. PARAMETER (SWDP)	1.50	1.45	1.34	1.25	1.15	1.07	0.992
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	308	327	365	402	440	478
	15.0	255.d	279	312	344	377	409
	16.0	210.d	231.d	269	297	325	353
	17.0	175.d	192.d	230.d	257	282	306
	18.0	148.d	162.d	193.d	224	246	267
	19.0	125.d	138.d	164.d	195.d	215	233
	20.0	108.d	118.d	141.d	167.d	189	205
	21.0	93.d	102.d	122.d	144.d	166	181
	22.0	81.d	89.d	106.d	125.d	147	160
	23.0	71.d	78.d	93.d	110.d	129.d	141
	24.0	62.d	68.d	82.d	97.d	113.d	125
	25.0	55.d	60.d	72.d	85.d	100.d	111
	26.0	49.d	54.d	64.d	76.d	89.d	98
	27.0	44.d	48.d	57.d	68.d	79.d	87
	28.0		43.d	51.d	61.d	70	77
	29.0			46.d	55.d	62	67
	30.0			42.d	49.d	55	59

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 4: CS120 NWC - #8 Rebar





EVALUATION REPORT

Number: 277

Originally Issued: 06/10/2016

Revised: 07/27/2022

Valid Through: 06/30/2023

Rebar # 9	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	49.0	52.0	58.1	64.1	70.2	76.2	82.3
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	11.2	11.0	10.5	10.0	9.70	9.30	9.00
MAX. UNSHORED 2 SPAN (ft)	10.9	10.4	9.60	8.80	8.20	7.70	7.20
MAX. UNSHORED 3 SPAN (ft)	12.4	11.8	10.9	10.1	9.40	8.70	8.20
I _u in ⁴	24.8	27.4	33.0	39.3	46.4	54.5	63.5
I _c in ⁴	14.0	15.4	18.3	21.5	25.0	28.8	32.9
DEFL. PARAMETER (LLDP)	306	336	403	478	562	655	758
DEFL. PARAMETER (SWDP)	1.51	1.45	1.34	1.24	1.15	1.07	0.988
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	309.d	340.d	386	425	464	503
	15.0	252.d	277.d	330	364	397	431
	16.0	207.d	228.d	273.d	314	343	372
	17.0	173.d	190.d	228.d	270.d	298	323
	18.0	146.d	160.d	192.d	228.d	260	282
	19.0	124.d	136.d	163.d	194.d	228.d	247
	20.0	106.d	117.d	140.d	166.d	195.d	217
	21.0	92.d	101.d	121.d	143.d	169.d	192
	22.0	80.d	88.d	105.d	125.d	147.d	170
	23.0	70.d	77.d	92.d	109.d	128.d	150.d
	24.0	61.d	68.d	81.d	96.d	113.d	132.d
	25.0	54.d	60.d	72.d	85.d	100.d	116.d
	26.0	48.d	53.d	64.d	76.d	89.d	104.d
	27.0	43.d	47.d	57.d	67.d	79.d	92.d
	28.0		43.d	51.d	60.d	71.d	83.d
	29.0			46.d	54.d	64.d	73
	30.0			41.d	49.d	58.d	65

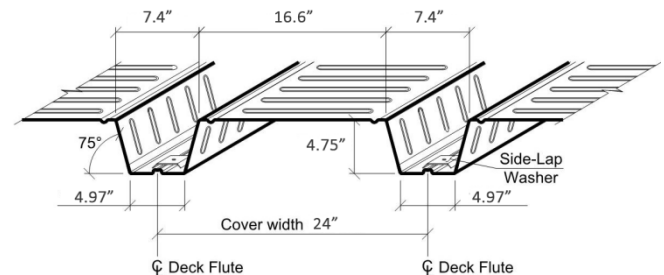
Rebar # 9	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	49.8	52.8	58.8	64.9	70.9	77.0	83.0
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.8	12.5	12.0	11.5	11.0	10.6	10.3
MAX. UNSHORED 2 SPAN (ft)	14.8	14.5	13.8	13.2	12.7	12.3	11.5
MAX. UNSHORED 3 SPAN (ft)	15.0	14.6	14.0	13.4	12.9	12.4	12.0
I _u in ⁴	25.6	28.2	33.9	40.3	47.6	55.8	65.0
I _c in ⁴	15.1	16.5	19.6	23.0	26.8	30.9	35.3
DEFL. PARAMETER (LLDP)	320	351	421	498	585	682	789
DEFL. PARAMETER (SWDP)	1.49	1.43	1.32	1.23	1.14	1.05	0.974
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	323.d	356.d	419	463	507	551
	15.0	263.d	289.d	346.d	397	435	473
	16.0	217.d	238.d	285.d	338.d	376	409
	17.0	181.d	199.d	238.d	282.d	327	355
	18.0	152.d	167.d	200.d	237.d	279.d	311
	19.0	129.d	142.d	170.d	202.d	237.d	273
	20.0	111.d	122.d	146.d	173.d	203.d	237.d
	21.0	96.d	105.d	126.d	149.d	176.d	205.d
	22.0	83.d	92.d	110.d	130.d	153.d	178.d
	23.0	73.d	80.d	96.d	114.d	134.d	156.d
	24.0	64.d	71.d	85.d	100.d	118.d	137.d
	25.0	57.d	62.d	75.d	89.d	104.d	121.d
	26.0	51.d	56.d	66.d	79.d	92.d	108.d
	27.0	45.d	50.d	59.d	70.d	83.d	96.d
	28.0	40.d	44.d	53.d	63.d	74.d	86.d
	29.0		40.d	48.d	57.d	67.d	78.d
	30.0			43.d	51.d	60.d	70.d

Rebar # 9	Normal Weight Concrete = 145 lb/ft ³						
SLAB WEIGHT (psf)	49.4	52.4	58.5	64.5	70.6	76.6	82.6
CONCRETE VOLUME (yd ³ /100ft ²)	1.15	1.22	1.38	1.53	1.69	1.84	1.99
MAX. UNSHORED 1 SPAN (ft)	12.1	11.8	11.2	10.8	10.4	10.0	9.70
MAX. UNSHORED 2 SPAN (ft)	14.0	13.3	12.3	11.4	10.6	9.90	9.30
MAX. UNSHORED 3 SPAN (ft)	14.1	13.8	13.1	12.6	12.0	11.2	10.5
I _u in ⁴	25.2	27.7	33.4	39.8	47.0	55.1	64.2
I _c in ⁴	14.5	15.9	18.9	22.2	25.8	29.8	34.1
DEFL. PARAMETER (LLDP)	312	343	411	487	573	668	773
DEFL. PARAMETER (SWDP)	1.50	1.44	1.34	1.24	1.15	1.06	0.982
SLAB THICKNESS (in.)	7.25	7.50	8.0	8.50	9.0	9.50	10.0
SHORING	SPAN (ft)	MAXIMUM SPECIFIED LOADS (psf)					
To be established by the designer.	14.0	316.d	347.d	402	444	486	527
	15.0	257.d	282.d	338.d	381	416	452
	16.0	212.d	233.d	279.d	329	360	390
	17.0	176.d	194.d	232.d	276.d	312	339
	18.0	149.d	163.d	196.d	232.d	273.d	296
	19.0	126.d	139.d	167.d	197.d	232.d	260
	20.0	108.d	119.d	143.d	169.d	199.d	229
	21.0	94.d	103.d	123.d	146.d	172.d	200.d
	22.0	81.d	90.d	107.d	127.d	149.d	174.d
	23.0	71.d	78.d	94.d	111.d	131.d	152.d
	24.0	63.d	69.d	83.d	98.d	115.d	134.d
	25.0	55.d	61.d	73.d	87.d	102.d	119.d
	26.0	49.d	54.d	65.d	77.d	91.d	106.d
	27.0	44.d	48.d	58.d	69.d	81.d	94.d
	28.0		43.d	52.d	62.d	72.d	84.d
	29.0			47.d	56.d	65.d	76.d
	30.0			42.d	50.d	59.d	69.d

NOTES:

1. The "SLAB WEIGHT" is made up of the self-weight of the steel deck, the reinforcing bar, and the concrete slab, which has been accounted for in the strength values of the load table.
2. See maximum unshored span conditions above to establish the number of shores required.
3. "d" next to values in the Table indicates instantaneous deflection controls due to superimposed loads.
4. "SLAB THICKNESS" is measured from the top of the concrete to the bottom of the steel deck.
5. I_u is the uncracked moment of inertia based on equivalent steel
6. I_c is the cracked moment of inertia based on equivalent steel
7. An explanation of deflection parameters SLDP & SWDP is in the example on page 2.

TABLE 4: CS120 NWC - #9 Rebar





CALIFORNIA SUPPLEMENT

BAILEY METAL PRODUCTS LIMITED

1 Caldari Road
Concord, ON L4K 3Z9
CANADA
(905) 738-9267
www.bmp-group.com

COMSLAB FLOOR SYSTEM

CSI Section:

05 00 00 Metals
05 31 00 Steel Decking
05 31 13 Steel Floor Decking

1.0 RECOGNITION

The ComSlab Floor System evaluated in IAPMO UES ER-277 and this supplement, complies with the following codes, subject to the additional requirements in Section 2.0 of this supplement:

- 2019 California Building Code (CBC), Title 24 Part 2.

2.0 LIMITATIONS

Use of the ComSlab Floor System recognized in ER-277 and this report supplement are subject to the following limitations:

2.1 The design and installation of the ComSlab Floor System shall be in accordance with the 2018 International Building Code, as noted in ER-277.

2.2 Special Inspections are required in accordance with CBC Sections 1705.2 and 1705A.2, Steel Construction, and Sections 1705.3 and 1705A.3, Concrete Construction.

2.3 Structural Observation is required in accordance with CBC Sections 1704.6 and 1704A.6.

2.4 Concrete materials shall comply with CBC Sections 1909.2 and 1903A, and 2016 CBC Section 1910A.

2.5 This supplement expires concurrently with ER-277.

For additional information about this evaluation report please visit
www.uniform-es.org or email us at info@uniform-es.org



FLORIDA SUPPLEMENT

BAILEY METAL PRODUCTS LIMITED

1 Caldari Road

Concord, ON L4K 3Z9

CANADA

(905) 738-9267

www.bmp-group.com

COMSLAB FLOOR SYSTEM

CSI Section:

05 00 00 Metals

05 31 00 Steel Decking

05 31 13 Steel Floor Decking

1.0 RECOGNITION

The ComSlab Floor System evaluated in IAPMO UES ER-277 and this supplement, complies with the following code, subject to the additional requirements in Section 2.0 of this supplement:

- 2020 Florida Building Code, Building (FBC, Building)

2.0 LIMITATIONS

Use of the ComSlab Floor System recognized in ER-277 and this report supplement are subject to the following limitations:

2.1 The design and installation of the ComSlab Floor System shall be in accordance with the 2018 International Building Code, as noted in ER-277.

2.2 Special Inspections are required for threshold buildings in accordance with FBC, Building Section 110.8.

2.3 Installations in high-velocity hurricane zones (HVHZ) are subject to applicable provisions in the FBC, Building Section 2222.

2.4 Verification shall be provided that a quality assurance agency audits the manufacturer's quality assurance program and audits the production quality of products, in accordance with Section (5)(d) of Florida Rule 61G20-3.008. The quality assurance agency shall be approved by the Commission (or the building official when the report holder does not possess an approval from the Commission).

2.5 This supplement expires concurrently with ER-277.

For additional information about this evaluation report please visit

www.uniform-es.org or email us at info@uniform-es.org



CITY OF NEW YORK SUPPLEMENT

BAILEY METAL PRODUCTS LIMITED

1 Caldari Road

Concord, ON L4K 3Z9

Canada

(905) 738-9267

www.bmp-group.com

COMSLAB FLOOR SYSTEM

CSI Section:

05 00 00 Metals

05 31 00 Steel Decking

05 31 13 Steel Floor Decking

1.0 RECOGNITION

The ComSlab Floor System evaluated in IAPMO UES ER-277 and this supplement, complies with the following code, subject to the additional requirements in Section 2.0 of this supplement:

- 2014 New York City Building Code (NYCBC)
Section 2209.2

2.0 LIMITATIONS

Use of the ComSlab Floor System recognized in ER-277 and this report supplement are subject to the following limitations:

2.1 The design, installation, and inspection of the ComSlab Floor System shall be in accordance with the 2012 International Building Code, as noted in ER-277.

2.2 Special Inspections are required in accordance with NYCBC Sections 1704.1, Sections 1704.3, Steel Construction, and 1704.4 Concrete Construction.

2.3 This supplement expires concurrently with ER-277.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org



CITY OF CHICAGO SUPPLEMENT

BAILEY METAL PRODUCTS LIMITED

1 Caldari Road
Concord, ON L4K 3Z9
Canada
(905) 738-9267
www.bmp-group.com

COMSLAB FLOOR SYSTEM

CSI Section:

05 00 00 Metals
05 31 00 Steel Decking
05 31 13 Steel Floor Decking

1.0 RECOGNITION

The ComSlab Floor System evaluated in IAPMO UES ER-277 and this supplement, complies with the following code, subject to the additional requirements in Section 2.0 of this supplement:

- 2019 Chicago Building Code (Title 14B)

2.0 LIMITATIONS

Use of the ComSlab Floor System recognized in ER-277 and this report supplement are subject to the following limitations:

2.1 The design, installation, and inspection of the ComSlab Floor System shall be in accordance with the 2018 International Building Code, as noted in ER-277.

2.2 A statement of special inspections shall be prepared by the registered design professional in responsible charge and submitted to the building official as set forth in Sections 1704.2.3 and 1704.3 of the Chicago Building Code.

2.3 Structural observations shall be provided where required by Sections 1706.1 or 1706.2 of the Chicago Building Code.

2.4 This supplement expires concurrently with ER-277.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org