450mm PRESTRESSED CONCRETE SLAB 09.1312-29 - SAFE LOAD TABLE

Self Weight 818Kg/m - SAFE LOADS are exclusive of self weight

08/05/2019

EFFECTIVE SPAN (see fig A for explanation)		PRELIMINARY UNIFORM SAFE LOAD (0 infilled holes)	SHEAR 0 INFILLED HOLES	BEARING 0 INFILLED HOLES	PRELIMINARY UNIFORM SAFE LOAD (2 infilled holes)	SHEAR* 2 INFILLED HOLES	BEARING 2 INFILLED HOLES	9mm TOP WIRES
meters	feet	Kg/m^2	T/panel	mm	Kg/m^2	T/panel	mm	
3.0	9'10"	13,411	24.14	100	17,289	31.12	100	2
3.5	11'6"	11,376	23.89	100	14,700	30.87	100	2
4.0	13'1"	9,850	23.64	100	12,759	30.62	100	2
4.5	14'9"	8,663	23.39	100	11,248	30.37	100	2
5.0	16'5"	7,713	23.14	100	10,040	30.12	100	2
5.5	18'0"'	6,940	22.90	100	9,055	29.88	100	2
6.0	19'8"	6,292	22.65	100	8,231	29.63	100	2
6.5	21'4"	5,744	22.40	100	7,005	29.38	100	2
7.0	23'0"	5,274	22.15	100	5,939	29.13	100	2
7.5	24'7"	4,867	21.90	100	5,079	28.88	100	2
8.0	26'3"	4,376	21.65	100	4,376	28.63	100	2
8.5	27'11"	3,792	21.40	100	3,792	28.38	100	2
9.0	29'6"	3,304	21.16	100	3,304	28.14	100	2
9.5	31'2"	2,890	20.91	100	2,890	27.89	102	2
10.0	32'10'	2,537	20.66	100	2,537	27.64	104	2
10.5	34'5"	2,233	20.41	100	2,233	27.39	106	2
11.0	36'0"	1,969	20.16	100	1,969	27.14	108	2
11.5	37'9"	1,740	19.91	102	1,740	26.89	110	2
12.0	39'4"	1,538	19.66	104	1,538	26.64	112	2
12.5	41'0"	1,360	19.42	106	1,360	26.40	114	2
13.0	42'8"	1,202	19.17	108	1,202	26.15	116	2
13.5	44'4"	1,061	18.92	110	1,061	25.90	118	2
14.0	45'11"	936	18.67	112	936	25.65	120	2
14.5	47'7"	823	18.42	114	823	25.40	122	2
15.0	49'3"	721	18.17	116	721	25.15	124	2
15.5	50'10"	628	17.92	118	628	24.90	126	2
16.0	52'6"	545	17.68	120	545	24.66	128	2
16.5	54'2"	469	17.43	122	469	24.41	130	2
17.0	55'9"	399	17.18	124	399	24.16	132	2
17.5	57'5"	316	16.93	126	316	23.91	134	2
18.0	59'0"	241	16.68	128	241	23.66	136	2

Notes to Periti:

(A) Load tables conforming to MSA EN 1992-1-2 Eurocode 2: Design of concrete structures - Part 1-1: General with both the safe load values satisfying the serviceability limit state (SLS)

(B) For HC slabs resting on beams, filling of hollows in C30 concrete at supports is recommended.

(C) The min. bearing of HC slabs as per table above is to be 100mm up to a max. of 135mm depending on the loads & strength C30 of suletta.

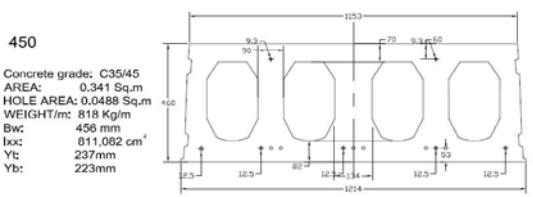
(D) For all load patterns, eg point loads, these are to be converted to equivalent uniform loads.

(E) The selection of *plank* type is the responsibility of the client's *Perit* .

(F) Lengths of slabs longer than 9m to have additional 2 wires of 9 ⌀ in the top corners

* For enhanced shear values each infilled hole has an additional shear value given at 3.49T/hole. Length of infill is to be determined by the project *Perit* .

Fig A



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