

350mm PRESTRESSED CONCRETE SLAB 09.1412-29 - SAFE LOAD TABLE								08/05/2019
Self Weight 648Kg/m - SAFE LOADS are exclusive of self weight								
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"	10,111	18.20	100	13,000	23.40	100	2
3.5	11'6"	8,572	18.00	100	11,048	23.20	100	2
4.0	13'1"	7,417	17.80	100	9,584	23.00	100	2
4.5	14'9"	6,519	17.60	100	8,445	22.80	100	2
5.0	16'5"	5,800	17.40	100	7,533	22.60	100	2
5.5	18'0"	5,212	17.20	100	6,583	22.40	100	2
6.0	19'8"	4,722	17.00	100	5,439	22.20	100	2
6.5	21'4"	4,308	16.80	100	4,548	22.00	100	2
7.0	23'0"	3,842	16.60	100	3,842	21.80	100	2
7.5	24'7"	3,272	16.40	100	3,272	21.60	100	2
8.0	26'3"	2,806	16.20	100	2,806	21.40	100	2
8.5	27'11"	2,419	16.00	100	2,419	21.20	100	2
9.0	29'6"	2,095	15.80	100	2,095	21.00	100	2
9.5	31'2"	1,821	15.61	100	1,821	20.81	100	2
10.0	32'10"	1,587	15.41	100	1,587	20.61	100	2
10.5	34'5"	1,385	15.21	100	1,385	20.41	100	2
11.0	36'0"	1,211	15.01	100	1,211	20.21	100	2
11.5	37'9"	1,059	14.81	100	1,059	20.01	101	2
12.0	39'4"	925	14.61	100	925	19.81	103	2
12.5	41'0"	807	14.41	100	807	19.61	105	2
13.0	42'8"	674	14.21	100	674	19.41	107	2
13.5	44'4"	560	14.01	102	560	19.21	109	2
14.0	45'11"	459	13.81	104	459	19.01	111	2
14.5	47'7"	370	13.61	106	370	18.81	113	2
15.0	49'3"	292	13.41	108	292	18.61	115	2
15.5	50'10"	222	13.21	110	222	18.41	117	2
16.0	52'6"	159	13.02	112	159	18.22	119	2
16.5	54'2"	103	12.82	114	103	18.02	121	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 2.60T/hole. Length of infill is to be determined by the project *Perit*.

Fig A

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Concrete grade: C35/45
 AREA: 0.270 Sq.m
 HOLE AREA: 0.0342 Sq.m
 WEIGHT/m: 648 Kg/m
 Bw: 406 mm
 bxc: 371,751cm⁴
 Yc: 170mm
 Ybc: 160mm