

525mm PRESTRESSED CONCRETE SLAB 09.1412-29 - SAFE LOAD TABLE								01/08/2021
Self Weight 1051Kg/m - SAFE LOADS are exclusive of self weight (2hrs fire resistance)								
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"	16,517	26.76	100	20,539	34.00	100	2
3.5	11'6"	14,005	26.47	100	17,453	33.71	100	2
4.0	13'1"	12,121	26.18	100	15,138	33.42	100	2
4.5	14'9"	10,659	25.90	100	13,341	33.14	100	2
5.0	16'5"	9,487	25.61	100	11,900	32.85	100	2
5.5	18'0"	8,530	25.34	100	10,724	32.58	100	2
6.0	19'8"	7,731	25.05	100	9,742	32.29	100	2
6.5	21'4"	7,054	24.76	100	8,910	32.00	100	2
7.0	23'0"	6,476	24.48	100	7,737	31.72	100	2
7.5	24'7"	5,973	24.19	100	6,618	31.43	100	2
8.0	26'3"	5,536	23.91	100	5,702	31.15	101	2
8.5	27'11"	4,581	23.63	100	4,581	30.87	103	2
9.0	29'6"	4,308	23.34	100	4,308	30.58	105	2
9.5	31'2"	3,770	23.06	100	3,770	30.30	107	2
10.0	32'10'	3,310	22.77	100	3,310	30.01	109	2
10.5	34'5"	2,915	22.49	102	2,915	29.73	111	2
11.0	36'0"	2,572	22.20	104	2,572	29.44	113	2
11.5	37'9"	2,273	21.92	106	2,273	29.16	115	2
12.0	39'4"	2,011	21.64	108	2,011	28.88	117	2
12.5	41'0"	1,779	21.35	110	1,779	28.59	119	2
13.0	42'8"	1,574	21.06	112	1,574	28.30	121	2
13.5	44'4"	1,391	20.78	114	1,391	28.02	123	2
14.0	45'11"	1,227	20.49	116	1,227	27.73	125	2
14.5	47'7"	1,080	20.21	118	1,080	27.45	127	2
15.0	49'3"	947	19.93	121	947	27.17	129	2
15.5	50'10"	827	19.64	123	827	26.88	131	2
16.0	52'6"	719	19.36	125	719	26.60	133	2
16.5	54'2"	619	19.07	127	619	26.31	135	2
17.0	55'9"	529	18.79	129	529	26.03	137	2
17.5	57'5"	446	18.50	131	446	25.74	139	2
18.0	59'0"	370	18.22	133	370	25.46	141	2

Notes to Periti: Refer also to guidelines: www.gmfprecast.com

- (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 137.5mm 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, whilst the **actual** shear load needs to be addressed.
- (E) The selection of *plank* type is the responsibility of the client's *Perit*.



Fig A

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AREA: 0.439 Sq.m
HOLE AREA: 0.0427 Sq.m
WEIGHT/m: 1051 Kg/m
Bw: 524 mm
lxx: 1,282,535 cmf
Yt: 274mm
Yb: 252mm

