

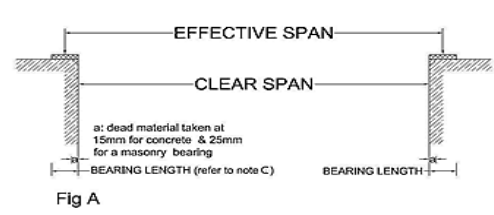
450mm PRESTRESSED CONCRETE SLAB 09.1312-29 - SAFE LOAD TABLE 01/08/2021

Self Weight 794Kg/m - SAFE LOADS are exclusive of self weight (90mins 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"	13,411	20.64	100	17,289	27.62	100	2
3.5	11'6"	11,376	20.42	100	14,700	27.40	100	2
4.0	13'1"	9,850	20.20	100	12,759	27.18	100	2
4.5	14'9"	8,663	19.99	100	11,248	26.97	100	2
5.0	16'5"	7,713	19.77	100	10,040	26.75	100	2
5.5	18'0"	6,925	19.55	100	9,055	26.53	100	2
6.0	19'8"	6,190	19.34	100	8,231	26.32	100	2
6.5	21'4"	5,584	19.12	100	7,433	26.10	100	2
7.0	23'0"	5,076	18.90	100	6,311	25.88	100	2
7.5	24'7"	4,644	18.86	100	5,406	25.66	100	2
8.0	26'3"	4,271	18.47	100	4,665	25.45	100	2
8.5	27'11"	3,792	18.25	100	4,051	25.23	100	2
9.0	29'6"	3,537	18.03	100	3,537	25.01	100	2
9.5	31'2"	3,101	17.81	100	3,101	24.79	100	2
10.0	32'10"	2,730	17.60	100	2,730	24.58	100	2
10.5	34'5"	2,410	17.38	100	2,410	24.36	102	2
11.0	36'0"	2,133	17.16	100	2,133	24.14	105	2
11.5	37'9"	1,891	16.95	100	1,891	23.93	107	2
12.0	39'4"	1,678	16.73	100	1,678	23.71	109	2
12.5	41'0"	1,491	16.51	102	1,491	23.49	111	2
13.0	42'8"	1,325	16.29	104	1,325	23.27	113	2
13.5	44'4"	1,177	16.08	106	1,177	23.06	115	2
14.0	45'11"	1,045	15.86	108	1,045	22.84	117	2
14.5	47'7"	926	15.64	110	926	22.62	119	2
15.0	49'3"	818	15.43	112	818	22.41	121	2
15.5	50'10"	721	15.21	114	721	22.19	123	2
16.0	52'6"	633	14.99	116	633	21.97	125	2
16.5	54'2"	553	14.77	118	553	21.75	127	2
17.0	55'9"	464	14.56	120	464	21.54	129	2
17.5	57'5"	380	14.34	122	380	21.32	131	2
18.0	59'0"	303	14.12	124	303	21.10	133	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 supportings 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, whilst the **actual** shear load needs to be addressed.
- (E) The selection of *plank* type is the responsibility of the client's *Perit*.



450

Concrete grade: C35/45
 AREA: 0.331 Sq.m
 HOLE AREA: 0.0488 Sq.m
 WEIGHT/m: 818 Kg/m
 Bw: 419 mm
 lxx: 807,059 cm²
 Yt: 235mm
 Yb: 225mm

