500mm PRESTRESSED CONCRETE SLAB 09.1312-29 - SAFE LOAD TABLE

Self Weight 981Kg/m - SAFE LOADS are exclusive of self weight

20/09/2018

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"	15,578	25.24	100	19,512	32.32	100	2
3.5	11'6"	13,210	24.97	100	16,581	32.05	100	2
4.0	13'1"	11,434	24.70	100	14,384	31.78	100	2
4.5	14'9"	10,052	24.43	100	12,674	31.51	100	2
5.0	16'5"	8,947	24.16	100	11,307	31.24	100	2
5.5	18'0"'	8,043	23.89	100	10,188	30.97	100	2
6.0	19'8"	7,289	23.62	100	9,256	30.70	100	2
6.5	21'4"	6,651	23.35	100	8,217	30.43	100	2
7.0	23'0"	6,105	23.08	100	6,964	30.16	100	2
7.5	24'7"	5,631	22.81	100	5,953	29.89	100	2
8.0	26'3"	5,126	22.54	100	5,126	29.62	100	2
8.5	27'11"	4,440	22.27	100	4,440	29.35	101	2
9.0	29'6"	3,866	22.00	100	3,866	29.08	103	2
9.5	31'2"	3,379	21.73	100	3,379	28.81	105	2
10.0	32'10'	2,964	21.47	100	2,964	28.55	107	2
10.5	34'5"	2,607	21.20	100	2,607	28.28	109	2
11.0	36'0"	2,297	20.93	102	2,297	28.01	111	2
11.5	37'9"	2,027	20.66	104	2,027	27.74	113	2
12.0	39'4"	1,790	20.39	106	1,790	27.47	115	2
12.5	41'0"	1,580	20.12	108	1,580	27.20	117	2
13.0	42'8"	1,395	19.85	110	1,395	26.93	119	2
13.5	44'4"	1,230	19.58	112	1,230	26.66	121	2
14.0	45'11"	1,082	19.31	114	1,082	26.39	123	2
14.5	47'7"	949	19.04	116	949	26.12	125	2
15.0	49'3"	829	18.77	118	829	25.85	127	2
15.5	50'10"	721	18.50	120	721	25.58	129	2
16.0	52'6"	623	18.23	122	623	25.31	131	2
16.5	54'2"	533	17.96	124	533	25.04	133	2
17.0	55'9"	451	17.69	126	451	24.77	135	2
17.5	57'5"	376	17.42	128	376	24.50	137	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 3.54T/hole. Length of infill is to be determined by the project *Perit* .

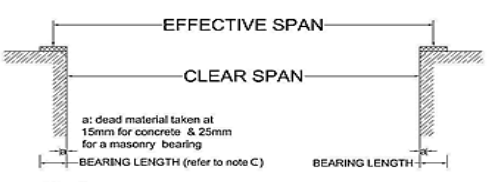
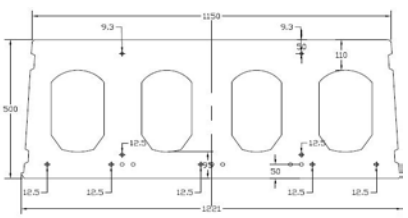


Fig A

500

Concrete grade: C35/45
AREA: 0.409 Sq.m
HOLE AREA: 0.0452 Sq.m
WEIGHT/m: 981 Kg/m
Bw: 518 mm
Ixx: 1,105,001 cm^4
Yt: 250mm
Yb: 250mm



GMF Precast Ltd

Address: St Mary Street, Maghtab NXR 65 15, Malta.

www.gmfprecast.com Email:gmf@gmfprecast.com
Mob: 99437538 Tel: 21434682 Fax: 21437419