525mm PRESTRESSED CONCRETE SLAB 09.1312-29 - SAFE LOAD TABLE

Self Weight 1051Kg/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"	16,145	26.15	100	20,167	33.39	100	2
3.5	11'6"	13,691	25.88	100	17,138	33.12	100	2
4.0	13'1"	11,846	25.59	100	14,863	32.83	100	2
4.5	14'9"	10,415	25.31	100	13,097	32.55	100	2
5.0	16'5"	9,267	25.02	100	11,680	32.26	100	2
5.5	18'0"'	8,327	24.73	100	10,521	31.97	100	2
6.0	19'8"	7,547	24.45	100	9,559	31.69	100	2
6.5	21'4"	6,885	24.17	100	8,550	31.41	100	2
7.0	23'0"	6,317	23.88	100	7,242	31.12	100	2
7.5	24'7"	5,827	23.60	100	6,187	30.84	100	2
8.0	26'3"	5,324	23.31	100	5,324	30.55	100	2
8.5	27'11"	4,608	23.03	100	4,608	30.27	102	2
9.0	29'6"	4,008	22.74	100	4,008	29.98	104	2
9.5	31'2"	3,501	22.46	100	3,501	29.70	106	2
10.0	32'10'	3,068	22.18	100	3,068	29.42	108	2
10.5	34'5"	2,695	21.89	101	2,695	29.13	110	2
11.0	36'0"	2,372	21.61	103	2,372	28.85	112	2
11.5	37'9"	2,090	21.32	106	2,090	28.56	114	2
12.0	39'4"	1,842	21.03	108	1,842	28.27	116	2
12.5	41'0"	1,624	20.75	110	1,624	27.99	118	2
13.0	42'8"	1,430	20.47	112	1,430	27.71	120	2
13.5	44'4"	1,258	20.19	114	1,258	27.43	122	2
14.0	45'11"	1,103	19.90	116	1,103	27.14	124	2
14.5	47'7"	965	19.61	118	965	26.85	126	2
15.0	49'3"	840	19.33	120	840	26.57	129	2
15.5	50'10"	727	19.04	122	727	26.28	131	2
16.0	52'6"	624	18.77	124	624	26.01	133	2
16.5	54'2"	530	18.48	126	530	25.72	135	2
17.0	55'9"	445	18.19	128	445	25.43	137	2
17.5	57'5"	367	17.91	130	367	25.15	139	2
18.0	59'0"	295	17.62	132	295	24.86	141	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 3.62T/hole. Length of infill is to be determined by the project *Perit* .

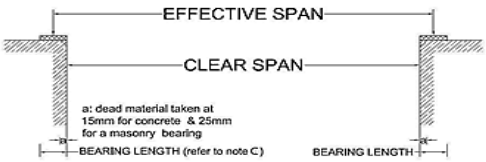
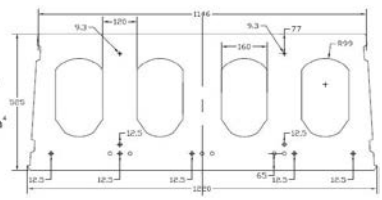


Fig A

525
Concrete grade: C35/45
AREA: 0.439 Sq.m
HOLE AREA: 0.0427 Sq.m
WEIGHT/m: 1051 Kg/m
Bw: 524 mm
Ixx: 1,282,535 cm^4
Yt: 274mm
Yb: 252mm



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