250mm PRESTRESSED CONCRETE SLAB 29.512-00 - SAFE LOAD TABLE

Self Weight 358Kg/m - SAFE LOADS are exclusive of self weight (90mins fire resistance)

10/05/2018

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"	4,195	7.55	75	5,828	10.49	75	–
3.5	11'6"	3,543	7.44	75	4,943	10.38	75	–
4.0	13'1"	3,054	7.33	75	4,279	10.27	75	–
4.5	14'9"	2,678	7.23	75	3,767	10.17	75	–
5.0	16'5"	2,373	7.12	75	3,091	10.06	75	–
5.5	18'0"'	2,124	7.01	75	2,500	9.95	75	–
6.0	19'8"	1,917	6.90	75	2,050	9.84	75	–
6.5	21'4"	1,701	6.79	75	1,701	9.73	75	–
7.0	23'0"	1,423	6.69	75	1,423	9.63	75	–
7.5	24'7"	1,119	6.58	75	1,119	9.52	75	–
8.0	26'3"	1,016	6.47	75	1,016	9.41	75	–
8.5	27'11"	864	6.36	75	864	9.30	75	–
9.0	29'6"	737	6.25	75	737	9.19	75	–
9.5	31'2"	629	6.15	75	629	9.09	76	–
SPANS BELOW TO APPLY SHED TYPE ROOFING ONLY								
10.0	32'10'	537	6.04	75	537	8.98	78	–
10.5	34'5"	458	5.93	77	458	8.87	80	–
11.0	36'0"	389	5.82	79	389	8.76	82	–
11.5	37'9"	330	5.71	81	330	8.65	84	–
12.0	39'4"	277	5.61	83	277	8.55	86	–

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 75mm up to a max. of 100mm 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 1.47T/hole. Length of infill is to be determined by the project *Perit* .

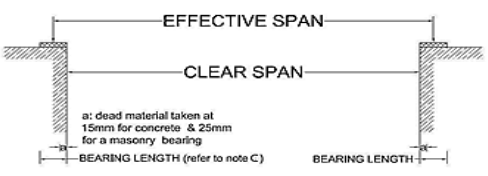
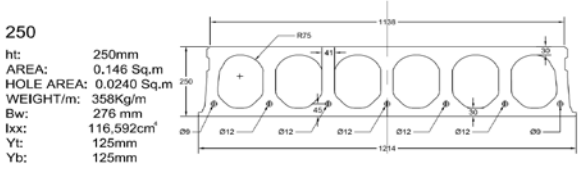


Fig A



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