

350mm PRESTRESSED CONCRETE SLAB 09.0812-00 - SAFE LOAD TABLE 14/01/2024

Self Weight 669Kg/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"	8,061	14.51	100	10,950	19.71	100	-
3.5	11'6"	6,814	14.31	100	9,291	19.51	100	-
4.0	13'1"	5,879	14.11	100	8,046	19.31	100	-
4.5	14'9"	5,152	13.91	100	6,373	19.11	100	-
5.0	16'5"	4,567	13.70	100	5,050	18.90	100	-
5.5	18'0"	4,072	13.50	100	4,072	18.70	100	-
6.0	19'8"	3,328	13.30	100	3,328	18.50	100	-
6.5	21'4"	2,749	13.10	100	2,749	18.30	100	-
7.0	23'0"	2,289	12.90	100	2,289	18.10	100	-
7.5	24'7"	1,918	12.70	100	1,918	17.90	100	-
8.0	26'3"	1,615	12.49	100	1,615	17.69	100	-

Notes to Periti: Refer also to guidelines: <http://www.gmfprecast.sandbox.local.com.mt/technical-specs>

- (A) Load tables conforming to *MSA EN 1992-1-1 Eurocode 2: Design of concrete structures - Part 1-1: General rules and rules for buildings*, 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 minimum bearing of HC slabs as per table above is to be a minimum of 100mm depending on the loads & strength C30 of padstone suletta, important to have a fair-faced finish to the top surface.
- (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*.
- (F) Embodied carbon is measured per square meter on plan.

Fig. A

350

Concrete Grade: C45
 Area: 0.273m²
 Hole Area: 0.133m²
 Weight / m: 669kg/m
 B_w: 416mm
 I_{xx}: 374,249cm⁴
 Y_t: 180mm
 Y_b: 170mm
 Embodied Carbon: 114kgCO₂e/m²



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

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