Table: Allowable loads for grating

Material Description	Dimensions (in)	Load		Weight		Beam - deflection (mm)									Grating Deflection
						SPAN (mm)									
		(kPa)	(psf)	(kN)	(Lbs)	1500	2000	2500	3000	3500	4000	4500	5000	5500	Size
Beam I4x3	4x3x0,187x0,312	16,76	350	16,76	3767	4,58	11,87	24,16	42,70	68,74	104,00	148,30	204,34	272,86	reference
Frame	3x3x0,250														below
Stirrup	4,0x5,5														
Beam I6x4	6x4x0,281x0,375	16,76	350	16,76	3767	1,19	3,07	6,25	11,05	17,79	26,79	38,38	52,88	70,61	reference
Frame	3x3x0,250														below
Stirrup	6,0x6,5														
Beam I8x4	8x4x0,281x0,375	16,76	350	16,76	3767	0,61	1,59	3,23	5,71	9,19	13,84	19,82	27,31	36,47	reference
Frame	3x3x0,250														below
Stirrup	8,0x6,5														
												← Not Permitted →			

Reference	Dimensions (in)	Load		Weight		Beam - deflection (mm)									
						SPAN (mm)									
		(kPa)	(psf)	(kN)	(Lbs)	600*	700*	800*	900*	1000	1100	1200	1300	1400	1500
Size 8	1,5x3/16	0,51	10,61	0,51	114,15	0,92	1,46	2,18	3,10	6,06	8,79	12,15	16,22	21,04	26,68
											← Not Permitted →				

(*) Deflection cused by 300lbs concentrated load (50lbs/grating)

Important notice:

- Pumps should not be dropped.
- The pump weight shall be distributed over 1mx1m (1 square meter) in one of the following:
  - Steel plate 1000x1000x10mm, or 38x89mm wood placed on edge and covering a minimum of 1000x1000mm (use 38x140mm for a pump weight of 1000kg)
- The I Beam is Aluminum 6061-T6, the jib shall be limited to a maximum span of /300
- The grating is Aluminum 6063-T5, the jib shall be limited to a maximum span of /200
- Load can be increased with the use of 304 stainless steel or a higher grade Aluminum (contact our engineering dept.)

- The above table is for aluminum landings
  - The above loads can be increased by a factor of 2,8 if using 304 stainless steel instead of aluminum 6061-T6, for a landing of the same dimensions.