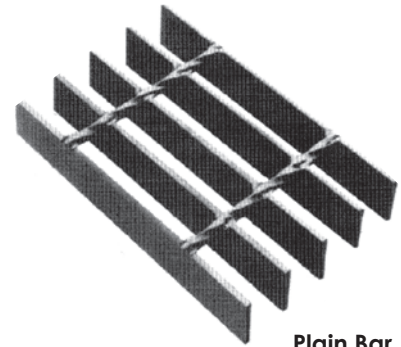


# Gratings

# Floor Grating (Serrated / Plain)

## PLAIN

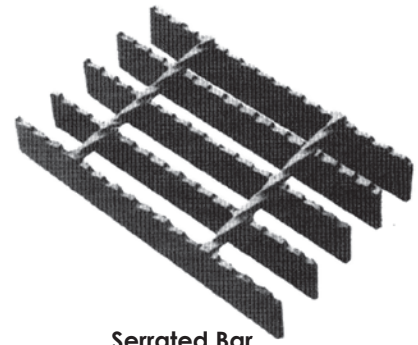
In its standard form, grating is supplied with plain load bearing bars and 6mm square twisted cross rods.



Plain Bar

## SERRATED

Serrated grating is available with most standard load bearing bars. The serrations are formed by placing a series of notches along the upper edge of the load bar, thus enhancing the non-slip characteristics of the grating. When serrated grating is required it must be nominated. Use should be made of the serrated conversion factors when determining load bearing and spanning capacity.



Serrated Bar

## TREATMENT

Galvanised - this finish ensures that the entire surface area is protected by a uniform layer of zinc and therefore is suitable for the majority of applications. Hot dip galvanising conforms to the following equivalent standards: AS1650, BS729 and ASTM A123. The minimum average coating required by these standards is 610gms/sq metre.

## APPLICATIONS

Stairways, walkways, catwalks, pedestrian ramp, machine access platform etc.

## PROCESS

Steel gratings are manufactured using a simultaneous application of heat and pressure on the load bar and cross bar at their intersection points, welding them together.

Section Size	Serial Size	Mass	Pitch	Type
ft	inch	kg/m <sup>2</sup>	mm	
3' x 20'	1" x 3/16"	28.4	40 x 100	twisted / straight
	1-1/4" x 3/16"	35.4		
	1-1/2" x 3/16"	43.2		cross / round bar
	1-3/4" x 3/16"	---		
	2" x 3/16"	53		

\* Singapore standard nominal size is 0.9m x 6.1m long (3' x 20').

\* Specification: BS 4592 Part 1 1995, ASTM A36.....

# Expanded Metals

(Metric units)

Category	Material Type	Mesh Opening		Thickness	Strand	Weight	Standard Sheet	
		SWM	LWM			±10%	SWM	LWM
		(mm)	(mm)	(mm)	(mm)	(kg/m2)	(mm)	(mm)
Fine Meshes	Steel	9	29	1.0	1.5	2.69	2440	1220
	Steel	9	29	2.0	1.5	5.50	2440	1220
	Steel	16	38	1.0	2.0	2.00	2440	1220
	Steel	16	38	1.5	2.0	3.15	2440	1220
	Steel	22	57	1.5	2.8	3.06	2440	1220
	Steel	22	57	2.0	2.8	3.90	2440	1220
	Steel	32	38	2.0	2.0	2.00	2440	1220
	Steel	35	76	2.0	3.0	2.65	2440	1220
Medium Meshes	Steel	22	57	3.0	3.5	7.30	2440	1220
	Steel	35	76	3.0	4.5	6.60	2440	1220
	Steel	42	115	3.0	6.0	8.00	2440	1220
	Steel	50	152	3.0	3.0	2.83	2440	1220
	Steel	50	152	3.0	5.0	4.71	2440	1220
	Steel	50	152	5.0	5.0	7.05	2440	1220
	Steel	75	200	3.0	7.5	5.20	2440	1220
Ballustrade Meshes	Steel	25	40/81	3.0	3.2	6.05	2440	1220
	Aluminium	25	40/81	3.0	3.2	2.09	2440	1220
	Steel	30	50/110	3.0	3.3	5.90	2440	1220
Walkway Meshes	Steel	30	75	3.0	8.0	12.55	2440	1220
	Steel	34	76	4.5	5.0	11.11	2440	1220
	Steel	25	75	5.0	7.5	23.50	2440	1220
	Steel	42	135	5.0	8.0	14.95	2440	1220
	Steel	30	75	5.0	10.5	27.50	2440	1220
	Steel	45	135	5.0	11.0	19.50	2440	1220
Louvre Meshes	Steel	16	76	1.0	6.3	7.49	2440	1220
	Steel	16	76	1.5	6.3	10.40	2440	1220

\* Specification normally refers to steel but can be manufactured in aluminium and stainless steel.

\* Sheet tolerance: SWM + 50mm - 0mm

\* LWM + 0mm - 19mm

Notation: LWM = Long Way of Mesh

SWM = Short Way of Mesh