

# MOULDED GRATING

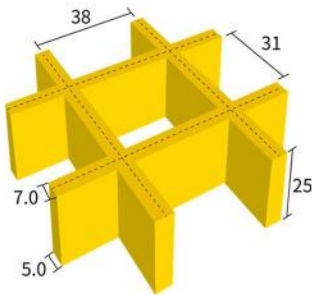
## PRODUCT GUIDE



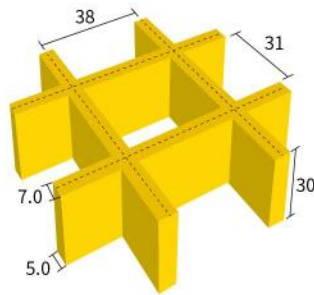


# MOULDED GRATING

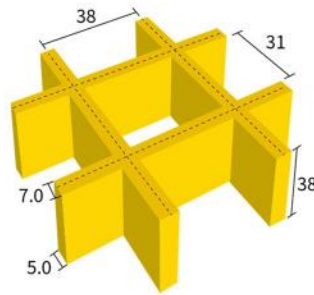
## 38\*38MM MESH SIZE



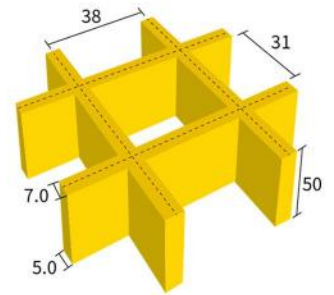
M3825



M3830



M3838



M3850

Product Code	Thickness (mm)	Bar Size (mm)	Bar Thickness (Up/Under)	Panel Size (m)	Weight (Kg/Panel)
M3825	25mm	31*31mm	7.0/5.0	1X4.04m 1.22X3.66m	56
M3830	30mm	31*31mm	7.0/5.0	1.22X3.66m	67
M3838	38mm	31*31mm	7.0/5.0	1X4.04m 1.22X3.66m	87 79
M3850	50mm	31*31mm	7.0/5.0	1.22X3.66m	116

## COLOUR

White	Yellow	Blue	Red
Black	Pink	Grey	Transparent
Green	Pantone	Burgundy	

## RESIN

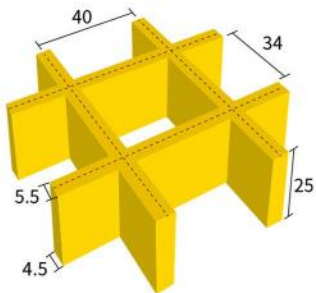
Resin Name	Dimensional Stability	Chemical Resistance	Fire Resistance
Phthalic resin	☆☆☆	☆☆☆	☆☆☆
Isophthalic resin	☆☆☆☆	☆☆☆☆	☆☆☆
Vinyl Resin	☆☆☆☆☆	☆☆☆☆☆	☆☆☆☆☆



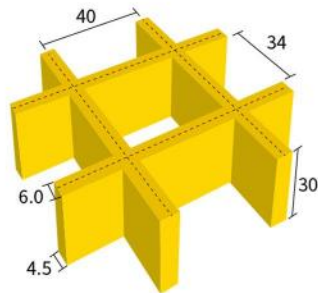


# MOULDED GRATING

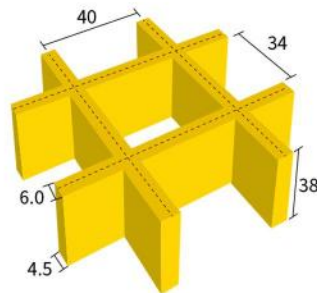
## 40\*40MM MESH SIZE



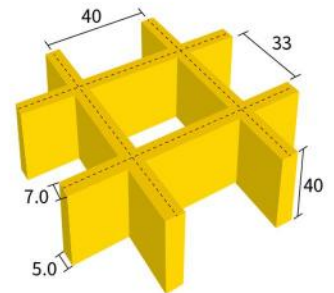
M4025



M4030



M4038



M4040

Product Code	Thickness (mm)	Bar Size (mm)	Bar Thickness (Up/Under)	Panel Size (m)	Weight (Kg/Panel)
M4025	25mm	34*34mm	5.5/4.5	1X4.04m 1.22X3.66m	49 44
M4030	30mm	34*34mm	6.0/4.5	1X4.04m 1.22X3.66m	63
M4038	38mm	34*34mm	6.0/4.5	1X4.04m/1.22X3.66m 1.22X4.92m	78 / 71 105
M4040	40mm	33*33mm	7.0/5.0	1.007*3.007m 1.207*3.007m	102 85

## COLOUR

White

Yellow

Blue

Red

Black

Pink

Grey

Transparent

Green

Pantone

Burgundy

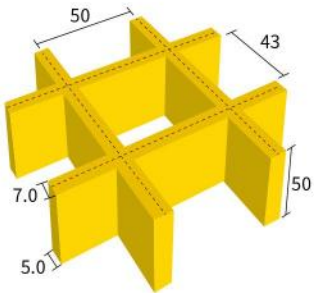
## RESIN

Resin Name	Dimensional Stability	Chemical Resistance	Fire Resistance
Phthalic resin	☆☆☆	☆☆☆	☆☆☆
Isophthalic resin	☆☆☆☆	☆☆☆☆	☆☆☆
Vinyl Resin	☆☆☆☆☆	☆☆☆☆☆	☆☆☆☆☆



# MOULDED GRATING

## 50\*50MM MESH SIZE



M5050

Product Code	Thickness (mm)	Bar Size (mm)	Bar Thickness (Up/Under)	Panel Size (m)	Weight (Kg/Panel)
M5050	50mm	43*43mm	7.0/5.0	1X4.04m 1.22X3.66m	103 93

## COLOUR

White 	Yellow 	Blue 	Red 
Black 	Pink 	Grey 	Transparent 
Green 	Pantone 	Burgundy 	

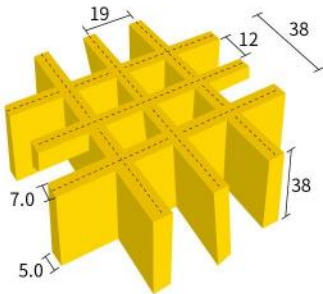
## RESIN

Resin Name	Dimensional Stability	Chemical Resistance	Fire Resistance
Phthalic resin	☆☆☆	☆☆☆	☆☆☆
Isophthalic resin	☆☆☆☆	☆☆☆☆	☆☆☆
Vinyl Resin	☆☆☆☆☆	☆☆☆☆☆	☆☆☆☆☆



# MOULDED GRATING

## 19\*19MM MESH SIZE



M1938

Product Code	Thickness (mm)	Bar Size (mm)	Bar Thickness (Up/Under)	Panel Size (m)	Weight (Kg/Panel)
M1938	38mm	12*12mm	7.0/5.0	1.22X3.66m	108

## COLOUR

White	Yellow	Blue	Red
Black	Pink	Grey	Transparent
Green	Pantone	Burgundy	

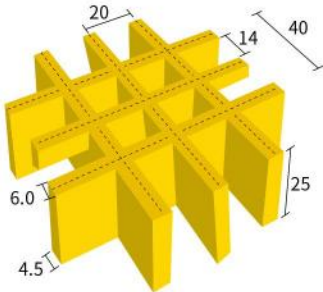
## RESIN

Resin Name	Dimensional Stability	Chemical Resistance	Fire Resistance
Phthalic resin	☆☆☆	☆☆☆	☆☆☆
Isophthalic resin	☆☆☆☆	☆☆☆☆	☆☆☆
Vinyl Resin	☆☆☆☆☆	☆☆☆☆☆	☆☆☆☆☆



# MOULDED GRATING

## 20\*20MM MESH SIZE



M2025

Product Code	Thickness (mm)	Bar Size (mm)	Bar Thickness (Up/Under)	Panel Size (m)	Weight (Kg/Panel)
M2025	25mm	14*14mm	6.0/4.5	1.247x4.047m	74

## COLOUR

White	Yellow	Blue	Red
Black	Pink	Grey	Transparent
Green	Pantone	Burgundy	

## RESIN

Resin Name	Dimensional Stability	Chemical Resistance	Fire Resistance
Phthalic resin	☆☆☆	☆☆☆	☆☆☆
Isophthalic resin	☆☆☆☆	☆☆☆☆	☆☆☆
Vinyl Resin	☆☆☆☆☆	☆☆☆☆☆	☆☆☆☆☆





# MOULDED GRATING

## URFACE TREATMENT

### DIAGRAM



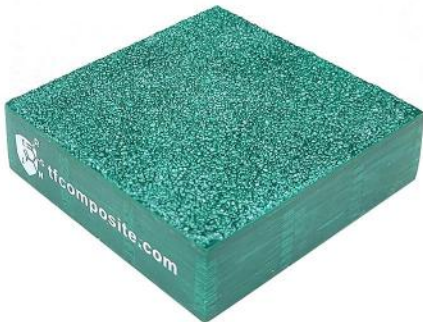
Flat surface



Gritted surface



Concave surface



Solid top-gritted surface



Solid top-diamond surface



Solid top-flat surface



Mini mesh



Heavy-duty

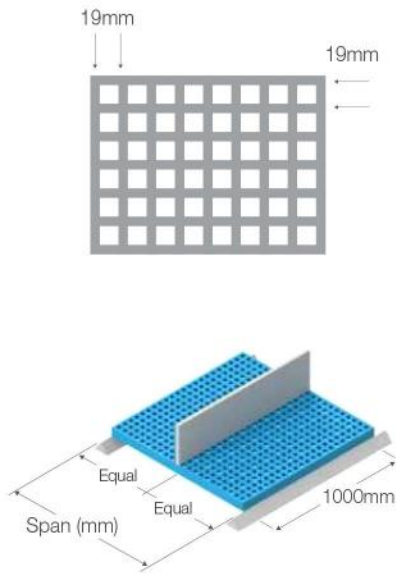


Transparent color

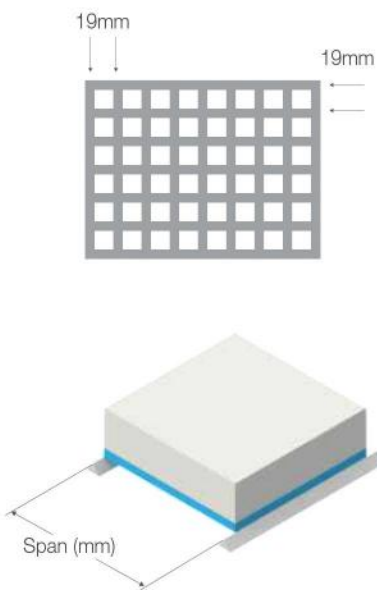


# MINI MESH & HEEL GUARD LOAD TABLES

Tables below are loading tables for both Mini Mesh(19\*19)and Mini Mesh(20\*20). These tables are calculated using a line load and a Uniformly Distributed Load acting at the different span widths and the various thicknesses.



SPAN mm	CODE	THK. mm	Concentrated Line Load kN/m - Deflection in mm							
			1.5	1.8	2.7	3.5	4.5	7	10	13
300	M2025	25	<0.5	<0.5	<0.5	0.5	0.7	1.1	1.5	2
	M1938	38	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.9	1.1
450	M2025	25	0.8	0.9	1.4	1.8	2.3	3.6	5.2	6.7
	M1938	38	<0.5	<0.5	<0.5	0.5	0.7	1.1	1.5	2
600	M2025	25	1.8	2.2	3.3	4.3	5.5	8.6	12.3	
	M1938	38	0.5	0.6	1	1.2	1.6	2.5	3.6	4.6
900	M2025	25	6.2	7.5	11.2					
	M1938	38	1.8	2.2	3.2	4.2	5.4	8.4	12	
1200	M2025	25	14.7							
	M1938	38	4.3	5.1	7.7	10	12.8			



SPAN mm	CODE	THK. mm	Uniform Distributed Load kPa - Deflection in mm)							
			1.5	2.5	3	5	7.5	10	15	20
300	M2025	25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6
	M1938	38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
450	M2025	25	<0.5	<0.5	<0.5	0.7	1.1	1.5	2.2	2.9
	M1938	38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.8
600	M2025	25	0.7	1.2	1.4	2.3	3.5	4.6	6.9	9.2
	M1938	38	<0.5	<0.5	<0.5	0.7	1	1.3	2	2.7
900	M2025	25	3.5	5.8	7	11.7				
	M1938	38	1	1.7	2	3.4	5.1	5.8	10.2	13.5
1200	M2025	25	11							
	M1938	38	3.2	5.3	6.4	10.7	16			

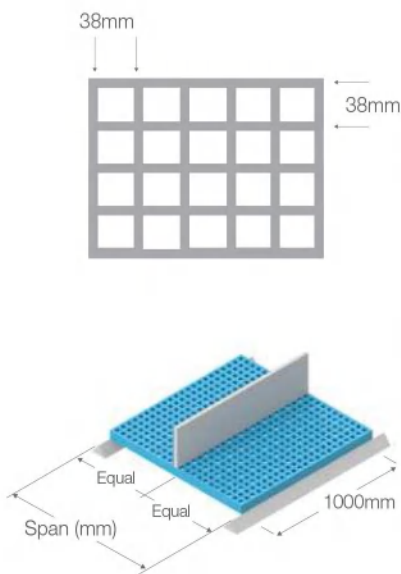




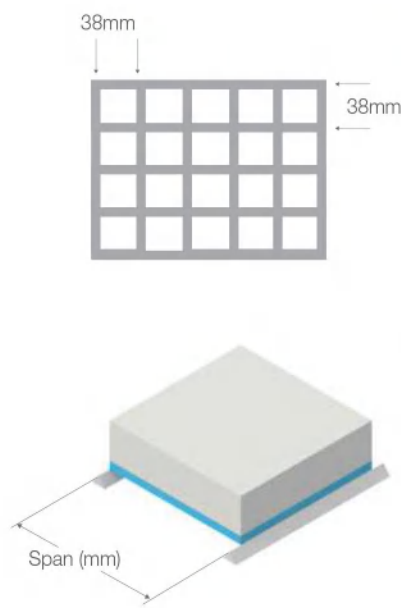
# 38X38 MOULDED GRATING

## LOAD TABLES

The tables below are loading tables for our standard 38x38 moulded grating. The two loading options are Uniformly Distributed Load and a point load approximately equal to the line load.



SPAN mm	CODE	THK. mm	Concentrated Line Load kN/m - Deflection in mm							
			1.5	1.8	2.7	3.5	4.5	7	10	13
300	M3825	25	<0.5	0.6	0.9	1.1	1.5	2.3	3.2	4.2
450	M3825	25	1.6	2.0	3.0	3.8	4.9	7.7	10.9	
	M3830	30	0.7	0.8	1.2	1.6	2.2	3.1	4.4	5.8
600	M3838	38	0.5	0.6	1.0	1.3	1.6	2.5	3.6	4.7
	M3825	25	3.9	4.7	7.0	9.1	11.7			
	M3830	30	1.6	1.9	2.8	3.7	4.7	7.4	10.5	
900	M3838	38	1.3	1.5	2.3	3.0	3.8	6.0	8.5	11.1
	M3850	50	0.7	0.8	1.2	1.6	2.1	3.2	4.6	6.0
	M3825	25	5.3	6.4	9.6	12.4				
	M3830	30	4.3	5.2	7.8	10.1	13.0	20.2		
1200	M3838	38	2.3	2.8	4.2	5.5	7.0	10.9	15.6	
	M3850	50	0.6	0.7	1.1	1.4	1.8	2.8	4.0	5.2
	M3830	30	10.3	12.3						
	M3838	38	5.5	6.7	10.0	12.9				
	M3850	50	1.4	1.7	2.5	3.3	4.2	6.6	9.4	12.3

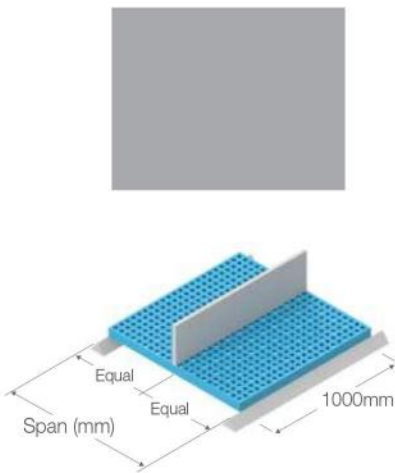


SPAN mm	CODE	THK. mm	Concentrated Line Load kN/m - Deflection in mm							
			1.5	2.5	3	5	7.5	10	15	20
300	M3825	25	<0.5	<0.5	<0.5	<0.5	<0.5	2.3	3.2	4.2
450	M3825	25	<0.5	0.8	0.9	1.5	2.3	3.1	4.6	6.1
	M3830	30	<0.5	<0.5	<0.5	0.6	0.9	1.2	1.9	2.5
600	M3838	38	<0.5	<0.5	<0.5	0.5	0.8	1.0	1.5	2.0
	M3825	25	1.5	2.4	2.9	4.9	7.3	9.7		
	M3830	30	0.6	1.0	1.2	2.0	3.0	3.9	5.9	7.9
900	M3838	38	<0.5	0.8	1.0	1.6	2.4	3.2	4.8	6.4
	M3850	50	<0.5	<0.5	0.5	0.9	1.3	1.7	2.6	3.5
	M3825	25	7.4	12.3	14.8	24.6				
	M3830	30	2.4	4.1	4.9	8.1	12.2	16.2		
1200	M3838	38	1.3	2.2	2.6	4.4	6.6	8.8	13.2	
	M3850	50	<0.5	0.6	0.7	1.1	1.7	2.2	3.4	4.5
	M3830	30	7.7	12.8						
	M3838	38	4.2	6.9	8.3	13.9				
	M3850	50	1.1	1.8	2.1	3.5	5.3	7.1	10.6	14.2

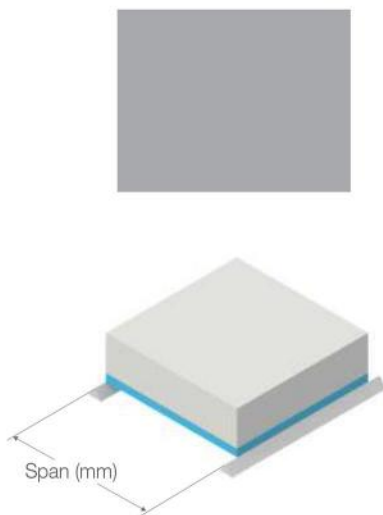


# SOLID TOP 3MM MOULDED GRATING LOAD TABLES

Top grid 38x38 with 3mm solid top. Various grating thickness as noted. For square mesh grating, point load is approximately equal to line load.



SPAN mm	CODE	THK. mm	Concentrated Line Load kN/m - Deflection in mm							
			1.5	2.5	3	5	7.5	10	15	20
450	M3828	28	<0.5	0.5	0.8	1.1	1.4	2.1	3.0	3.9
	M3833	33	<0.5	<0.5	<0.5	0.6	0.8	1.2	1.8	2.3
	M3841	41	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	1.0	1.3
600	M3828	28	1.1	1.3	1.9	2.5	3.2	5.0	7.1	
	M3833	33	0.6	0.8	1.1	1.5	1.9	2.9	4.2	5.5
	M3841	41	<0.5	<0.5	0.6	0.8	1.0	1.6	2.3	3.0
900	M3828	28	3.6	4.3	6.5	8.4	10.8			
	M3833	33	2.1	2.6	3.8	5.0	6.4			
	M3841	41	1.2	1.4	2.1	2.7	3.5	5.5	7.8	10.2
1200	M3828	28	8.6	10.3						
	M3833	33	5.0	6.1	9.1	11.8				
	M3841	41	2.8	3.3	5.0	6.5	8.3			



SPAN mm	CODE	THK. mm	Concentrated Line Load kN/m - Deflection in mm							
			1.5	2.5	3	5	7.5	10	15	20
450	M3828	28	<0.5	<0.5	<0.5	<0.5	0.6	0.8	1.3	1.7
	M3833	33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	1.0
	M3841	41	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
600	M3828	28	<0.5	0.7	0.8	1.3	2.0	2.7	4.0	5.4
	M3833	33	<0.5	<0.5	<0.5	0.8	1.2	1.6	2.4	3.2
	M3841	41	<0.5	<0.5	<0.5	<0.5	0.7	0.9	1.3	1.7
900	M3828	28	2.0	3.4	4.1	6.8	10.2	13.6		
	M3833	33	1.2	2.0	2.4	4.0	6.0	8.0	12.0	
	M3841	41	0.7	1.1	1.3	2.2	3.3	4.4	6.6	8.8
1200	M3828	28	6.4	10.7	12.9					
	M3833	33	3.8	6.3	7.6	12.6				
	M3841	41	2.1	3.5	4.2	6.9	10.4	10.4	13.9	

Consideration in the selection of FRP grating, particularly for walkways, is deflection rather than the ultimate strength. This is because even though FRP grating has a high ultimate strength it has a relatively low modulus of elasticity compared to steel and aluminium.

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