



FRP FIBER GLASS WALKWAY

FIBERGLASS ADVANTAGE



ทางเดินบนหลังคา สำหรับงาน Solar Roof

- BASOR THAI -

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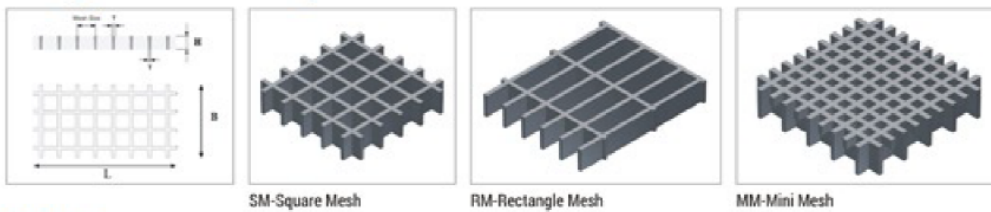
Email : Basor@BasorThai.com

FIBER GLASS GRATING SYSTEM Moulded Grating

Fiber Glass (FRP) is the material with top strength, corrosion resistant in the harshest environment, long life and reliable in safety. Molded Grating meet to application requirement as well as international standards. Produce with the top quality resin material. By comparing with the conventional steel installation, FRP grating deliver more advantages both in engineering and commercial. By comparison, FRP deliver the lower cost of installation, lower maintenance and much longer service life. On top of those advantages, FRP is with self extinguish and UV stabilized.

Be complied with FGMC (Fiberglass Grating Manufacturer's council) and ACMA (American Composite Manufacturing Association)

Variety - Grating Style

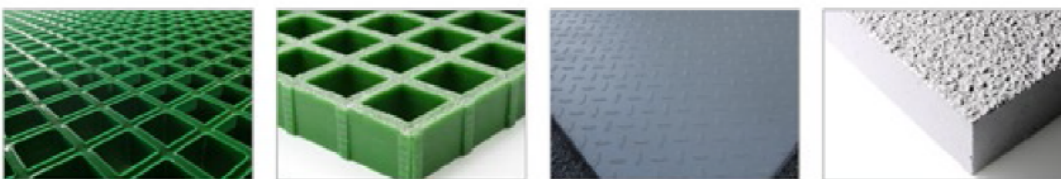


SM-Square Mesh

RM-Rectangle Mesh

MM-Mini Mesh

Variety - Surface Style



Concave/Meniscus Top

Grit Top

Chequered Plate Top

Covered Grit Top

Standard Size - (The custom size is applicable **) - FRP Moulded GRATING system

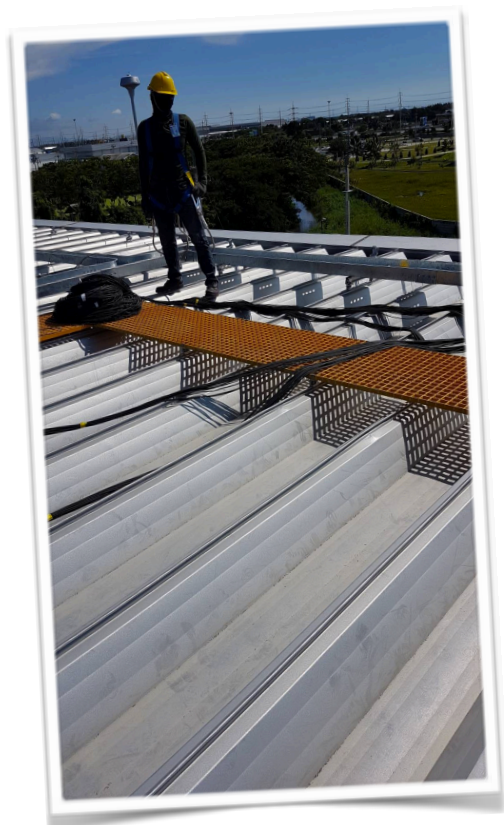
Product Code	Height (MM)	Mesh Size (MM)	Rib Thickness (MM)	Open Area(%)	Sheet Size (MM)
SM 12 x (50 x 50)	12.5	50 x 50	6-5	82	1007 X 2007, 1007 X 4047
SM 25 x (38 x 38)	25	38 x 38	7-5	69	1220 X 3660, 1007 X 2007*, 1007 X 4047*, 1247 X 4047*
RM 25 x (25 x 100)	25	25 x 100	6.35	68	1220 X 3660
SM 30 x (38 x 38)	30	38 x 38	7-5	68	1220 X 3660, 1007 X 2007*, 1007 X 4047*, 1220 X 4045
SM 38 x (38 x 38)	38	38 x 38	7-5	68	1220 X 3660, 1007 X 2007*, 1007 X 4047*, 1247 X 4047*
SM 50 x (50 x 50)	50	50 x 50	8-5	71	1220 X 4068
MM 30 x (20 x 20)	30	20 x 20 (Mini)	7-5	42	2003 X 740

For Panel Size marked with (*) , Mesh Size will be 40 X 40

Comparing FRP with other material - for applications of

PARAMETERS	FIBERGLASS GRATINGS	HOT DIPPED GI	SS
Life Span	High	Moderate	High
Strength To Weight Ratio	High	Low	Low
Life Cycle Cost	Low	High	High
Corrosion Resistivity	Very High	Moderate	High
Chemical Resistivity	Very High	Moderate	High
Electrical Conductivity	Nil	High	High
EMI / RFI Transparency	High	Nil	Nil
Installation Cost	Low	Moderate	Moderate
Handling	Very Easy	Difficult	Difficult
Anti Skid	Available	NA	NA
Colour Range	Available	NA	NA

- » Walkways
- » Platforms
- » Trench covers
- » Staircase
- » Floorings
- » Foot Bridges
- » Step Treads
- » Swimming pool overflow
- » Fencing
- » Elevated car parking
- » Earth pit covers
- » Etc....



ออกแบบมาเฉพาะสำหรับงาน โซลาร์
ทนแดดได้ยาวนานกว่า 25 ปี ไม่ผุกร่อน
เบาเพียง 12.3 Kg/ตารางเมตร แต่รับน้ำหนักได้
มาก

ไม่กรอบ ไม่แตก ไม่หัก มีความยืดหยุ่นสูง

ไม่ติดไฟ ไม่ลามไฟ

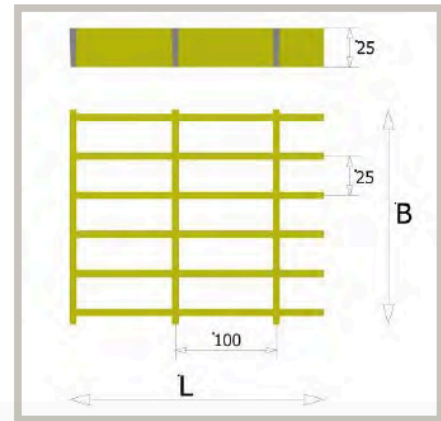
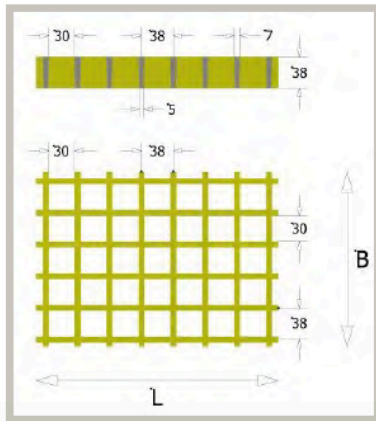
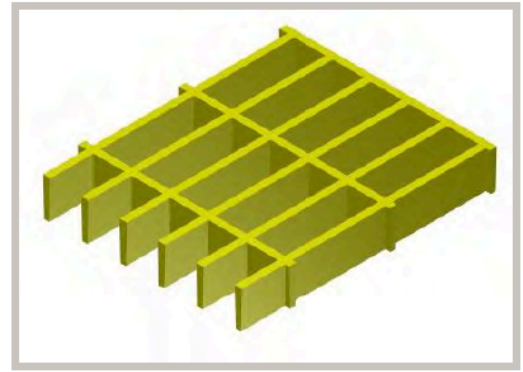
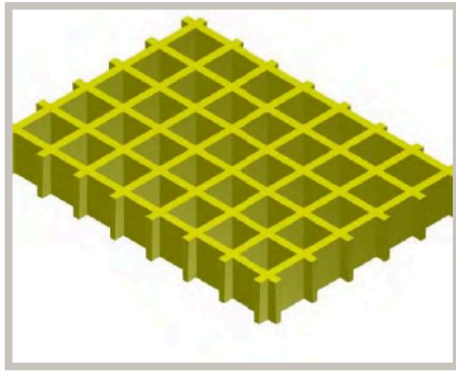
ติดตั้งได้ง่าย เร็ว ไม่ต้องใช้เครนยก

มีสินค้าพร้อมส่ง ทั่วประเทศ

ไม่นำไฟฟ้า ปลอดภัย ไม่โดนไฟดูด

ไม่ต้องทาสี หรือซ่อมบำรุงใดใด

NOMENCLATURE FOR FRP/GRP MOULDED GRATING



Product Code	Height (MM)	Mesh Size (MM)	Rib Thickness (MM)	Open Area (%)	Sheet Size (MM)
SM 12 X (50 X 50)	12.5	50 X 50	6-5	82	1007 X 2007, 1007 X 4047
SM 25 X (38 X 38)	25	38 X 38	7-5	69	1220 X 3660, 1007 X 2007, 1007 X 4047, 1247 x 4047
RM 25 X (25 X 100)	25	25 X 100	6.35	68	1220 X 3660
SM 30 X (38 X 38)	30	38 X 38	7-5	68	1007 X 2007, 1007 X 4047, 1220 x 4045, 1220 x 3660
SM 38 X (38 X 38)	38	38 X 38	7-5	68	1220 X 3660, 1007 X 2007, 1007 X 4047, 1247 x 4047
SM 50 X (50 X 50)	50	50 X 50	8-6	78	1220 x 4068
MM 30 X (20 X 20)	30	20 X 20 (Mini)	7-5	42	2003 X 740

WHEN PANEL SIZE 1007 X 4047, 1247 X 4047 OR 1007 X 2007, MESH SIZE WILL BE 40 X 40

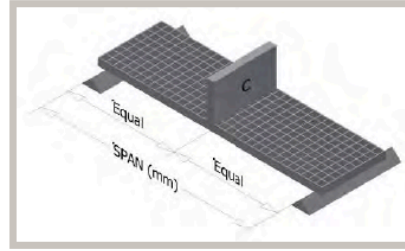
RESIN SYSTEM FOR GRATINGS

Resin Type	Resin Base	Description	Flame spread rating ASTM E84
Type IFR	Isophthalic Polyester	Industrial Grade Corrosion resistance & fire retardant	Class 1, 25 or less
Type I	Isophthalic Polyester	Industrial Grade Corrosion resistance in acidic environment	Non fire retardant
Type V	Vinyl Ester	Superior Corrosion resistance & fire retardant	Class 1, 25 or less
Type P	Phenolic	Low smoke and superior fire retardant	Class 1, 5 or less

LOAD DEFLECTION TABLE

MOULDED GRATINGS

CONCENTRATED LINE LOAD (deflection in mm)



BE basor thai

SM 25 X (38 X 38) : 25MM THICK & SQ. MESH 38MM X 38MM

SPAN	LINE LOAD IN KG/MTR														MAX. REC.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	
400	1.6	2.6	4.2	5.3	6.8	7.9	10.5	13.1							900
600	4.8	8.0	12.8	16.0											600
800	11.3														300

SM 30 X (38 X 38) : 30MM THICK & SQ. MESH 38MM X 38MM

SPAN	LINE LOAD IN KG/MTR														MAX. REC.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	
400	1.0	1.5	2.4	4.2	4.9	6.3	9.6	12.8							1800
600	2.2	3.5	5.8	7.9											900
800	7.1														600

SM 38 X (38 X 38) : 38MM THICK & SQ. MESH 38MM X 38MM

SPAN	LINE LOAD IN KG/MTR														MAX. REC.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	
400	0.6	0.9	1.5	1.9	2.4	2.8	3.7	4.7	7.3	9.3	11.2	13.1	14.9		1900
600	1.6	2.6	4.2	5.3	6.8	7.9	10.5	13.2							1300
800	3.5	5.9	9.5	11.8	15.4										1000
1000	6.9	11.4													700
1200	11.8														500

RM 25 X (25 X 100) : 25MM THICK & SQ. MESH 25MM X 100MM

SPAN	LINE LOAD IN KG/MTR														MAX. REC.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	
400	1.2	2.0	3.2	4.1	5.3	6.1	8.1	10.1	15.8						900
600	3.7	6.1	9.8	12.3	16.0										600
800	8.5	14.2													400
1000															

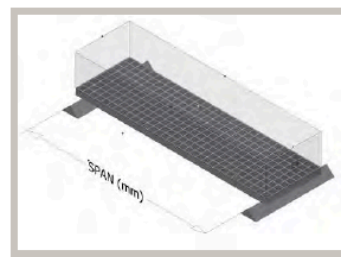
SM 50 X (50 X 50) : 50MM THICK & SQ. MESH 50MM X 50MM

SPAN	LINE LOAD IN KG/MTR														MAX. REC.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	
400	0.3	0.6	0.9	1.1	1.5	1.7	2.3	2.8	4.4	5.7	6.8	7.9	9.1	10.2	2270
600	0.9	1.5	2.4	3.0	3.9	4.5	6.1	7.6	11.8	15.1					1400
800	1.9	3.2	5.2	6.4	8.4	9.7	12.9								1110
1000	3.7	6.1	9.8	12.2	15.9										1100
1200	6.2	10.4													760
1400	9.8														660

NOTES:

1	It is advised not exceed the MAX RECOMMENDED LOAD at any given span. MAX RECOMMENDED LOAD represents a 5:1 factor of safety on ULTIMATE CAPACITY.
2	ULTIMATE CAPACITY represents a complete and total failure of the grating. Max recommended and ultimate loads do not change as a result of adding a 3mm thick covered plate.
3	Walking loads, typically 250-300 kg/m ² maximum are recommended for pedestrian traffic. Deflections for worker comfort are typically limited to the lesser of 10mm or CLEAR SPAN divided by 125; for a firmer feel, limit deflection to the lesser of 6 or CLEAR SPAN divided by 200.
4	The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact or dynamic conditions should be a maximum of ONE-HALF the values shown. Long term loads will result in added deflection due to creep in the material and will also require higher safety factors to ensure acceptable performance. For applications at elevated temperatures, consult our technical team
5	All gratings were tested in accordance with the proposed standard of the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association

MOULDED GRATINGS
UNIFORMLY DISTRIBUTED LOAD
(deflection in mm)



SM 25 X (38 X 38) : 25MM THICK & SQ. MESH 38MM X 38MM

SPAN	UNIFORM DISTRIBUTED LOAD IN KG/SQ.MT														MAX. REC.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	
400	0.4	0.7	1.1	1.3	1.7	2.0	2.6	3.3	5.1	6.6	7.9	9.2	10.5	11.8	4800
600	1.8	3.0	4.8	6.0	7.8	9.0	12.0	15.0							2000
800	5.7	9.5	15.1												900
1000	13.9														500

SM 30 X (38 X 38) : 30MM THICK & SQ. MESH 38MM X 38MM

SPAN	UNIFORM DISTRIBUTED LOAD IN KG/SQ.MT														MAX. REC.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	
400	0.2	0.4	0.8	1.0	1.3	1.9	2.2	2.9	4.5	5.9	6.9	8.5	9.5	10.9	6500
600	1.0	1.5	4.8	2.8	3.9	4.3	6.3	7.4							4300
800	3.9	7.1	8.9												1900
1000	5.5														1100

SM 38 X (38 X 38) : 38MM THICK & SQ. MESH 38MM X 38MM

SPAN	UNIFORM DISTRIBUTED LOAD IN KG/SQ.MT														MAX. REC.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	
400	0.1	0.2	0.4	0.5	0.6	0.7	0.9	1.2	1.8	2.3	2.8	3.3	3.7	4.2	10000
600	0.6	1.0	1.6	2.0	2.6	3.0	3.9	4.9	7.7	9.9	11.8	13.8	15.8		4500
800	1.8	3.0	4.7	5.9	7.7	8.9	11.8	14.8							2600
1000	4.3	7.1	11.4	14.3											1400
1200	8.9	14.8													900

RM 25 X (25 X 100) : 25MM THICK & MESH 25MM X 100MM

SPAN	UNIFORM DISTRIBUTED LOAD IN KG/SQ.MT														MAX. REC.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	
400	0.3	0.5	0.8	1.0	1.3	1.5	2.0	2.5	4.0	5.1	6.1	7.1	8.1	9.1	4800
600	1.4	2.3	3.7	4.6	6.0	6.9	9.2	11.5							2000
800	4.3	7.1	11.3	14.2											1000
1000	10.4														

SM 50 X (50 X 50) : 50MM THICK & SQ. MESH 50MM X 50MM

SPAN	UNIFORM DISTRIBUTED LOAD IN KG/SQ.MT														MAX. REC.
In mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	
400	0.1	0.1	0.2	0.3	0.4	0.4	0.6	0.7	1.1	1.4	1.7	2.0	2.3	2.6	11300
600	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.3	1.6	2.0	2.3	2.6	2.9	4600
800	0.3	0.2	0.9	1.1	1.5	1.7	2.3	2.8	4.4	5.7	6.8	8.0	9.1	10.2	2780
1000	2.3	3.8	6.1	7.7	9.9	11.5	15.3								1810
1200	4.7	7.8	12.5	15.6											980
1400	8.5	14.2													790

NOTES:

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4	The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact or dynamic conditions should be a maximum of ONE-HALF the values shown. Long term loads will result in added deflection due to creep in the material and will also require higher safety factors to ensure acceptable performance. For applications at elevated temperatures, consult our technical team
5	All gratings were tested in accordance with the proposed standard of the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association

MOULDED GRATINGS

POINT LOAD

(deflection in mm)



SM 25 X (38 X 38) : 25MM THICK & SQ. MESH 38MM X 38MM

SPAN In mm	POINT LOAD IN KG					
	100	225	350	450	700	900
450	0.5	1.0	1.5	2.0	3.0	4.0
600	1.2	3.0	4.5	6.1	9.1	12.4
750	2.2	6.1	8.8	11.4		
900	3.3	8.3	12.4	16.7		
1050	6.1	15.4				
1150	7.3					

SM 30 X (38 X 38) : 30MM THICK & SQ. MESH 38MM X 38MM

SPAN In mm	POINT LOAD IN KG					
	100	225	350	450	700	900
450	0.3	0.5	0.9	1.0	2.7	3.5
600	0.9	1.1	2.5	2.7	8.1	9.2
750	1.1	2.2	5.2	8.9		
900	2.6	4.9	8.5	13.8		
1050	4.1	7.5				
1150	6.5					

SM 38 X (38 X 38) : 38MM THICK & SQ. MESH 38MM X 38MM

SPAN In mm	POINT LOAD IN KG					
	100	225	350	450	700	900
450	<0.25	0.2	0.5	0.7	1.0	1.5
600	0.5	1.0	1.5	2.0	3.0	3.8
750	0.7	1.7	2.5	3.3	5.0	6.6
900	1.0	2.5	3.8	5.3	7.8	10.4
1050	1.5	3.8	5.8	7.8	11.6	15.4
1150	2.0	5.0	7.3	9.9	14.9	

RM 25 X (25 X 100) : 25MM THICK & MESH 25MM X 100MM

SPAN In mm	POINT LOAD IN KG					
	100	225	350	450	700	900
450	0.2	1.0	1.2	1.7	2.7	3.8
600	1.0	2.2	3.5	4.8	7.1	9.4
750	1.7	4.5	6.8	9.4	13.9	
900	2.7	7.3	10.9	14.4		
1050	4.3	10.9	16.5			

SM 50 X (50 X 50) : 50MM THICK & SQ. MESH 50MM X 50MM

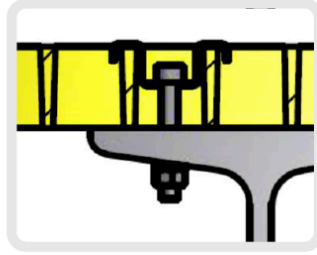
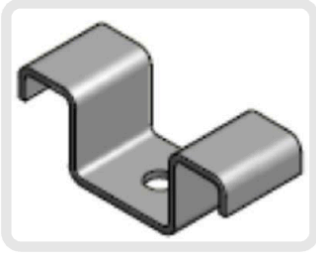
SPAN In mm	POINT LOAD IN KG					
	100	225	350	450	700	900
450	0.7	0.5	0.5	0.8	1.3	1.5
600	0.2	0.8	1.0	1.3	2.0	2.6
750	0.5	1.0	1.5	2.3	3.3	4.3
900	0.5	1.5	2.3	3.0	4.6	6.1
1050	0.8	2.3	3.3	4.3	6.6	8.9
1150	1.2	2.5	3.8	5.0	7.6	10.2

NOTES:

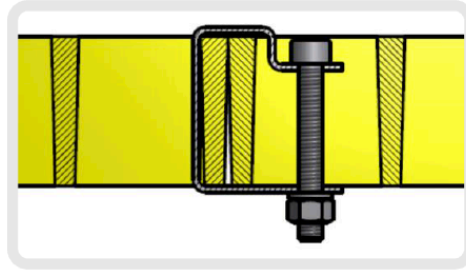
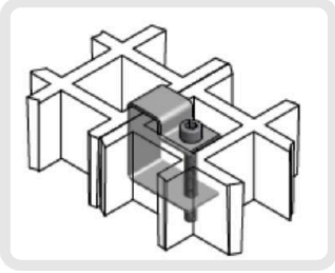
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5	All gratings were tested in accordance with the proposed standard of the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association

ACCESSORIES

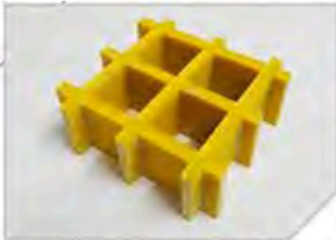
M CLIP – FOR FIXING MOULDED GRATING WITH SUPPORT STRUCTURE (ORDERING CODE: ASMGC-38)



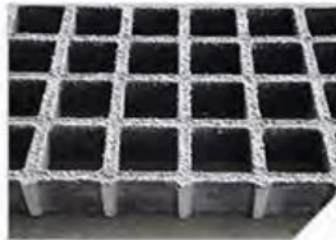
C CLAMP – FOR FIXING TWO MOULDED GRATING PANELS (ORDERING CODE: ASMGC-C-25/38)



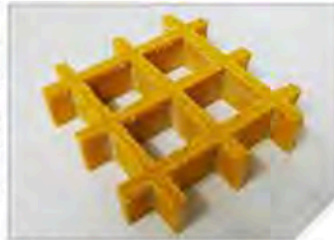
TYPES OF SURFACE FINISH OF GRATING



Concave Top : Suitable for wet & oily conditions



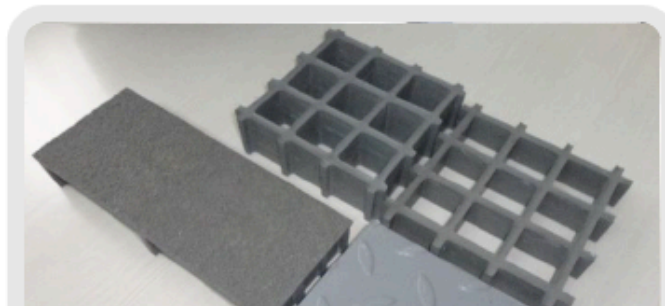
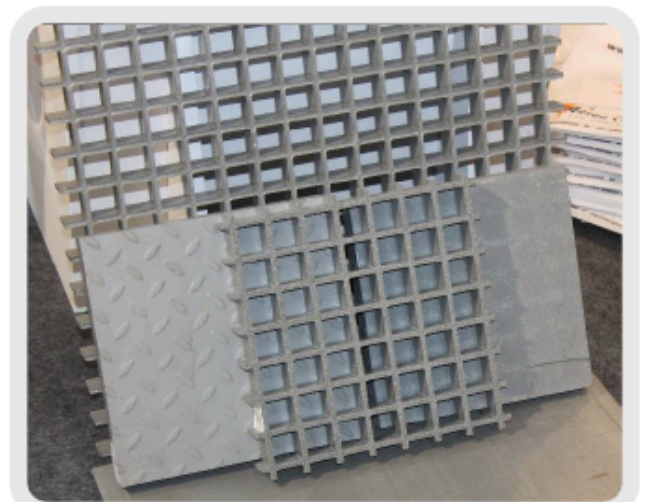
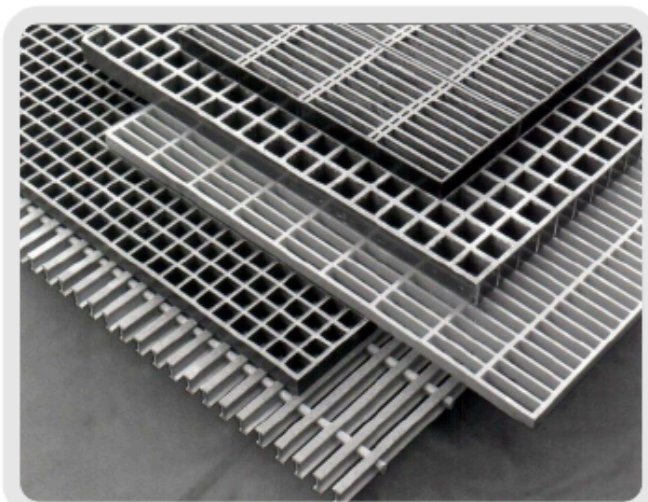
Inbuilt Grit : A quartz grit finish applied in the mould during manufacture.



Applied Grit : A quartz grit sealed with a tough, long wearing epoxy coat.



Chequered Plate / Grit Top



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ปลอดภัยกับคน ใช้ทนอยู่นาน
ดูดีสวยงาม ติดตั้งได้ไว

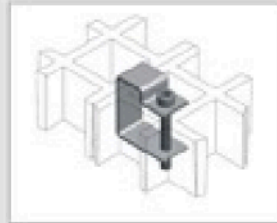


Installation Accessories

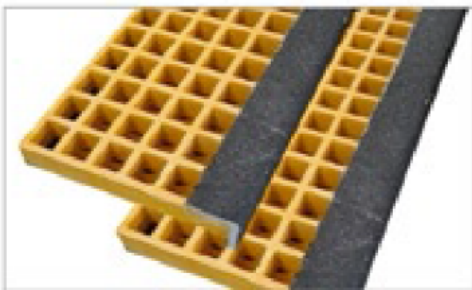
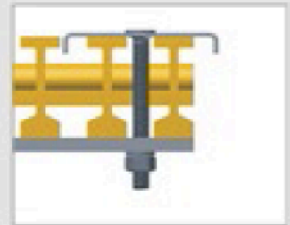
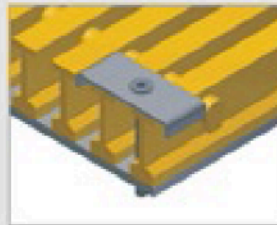
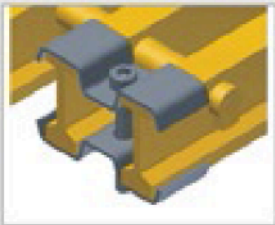
M-CLIP FOR MOLDED GRATING



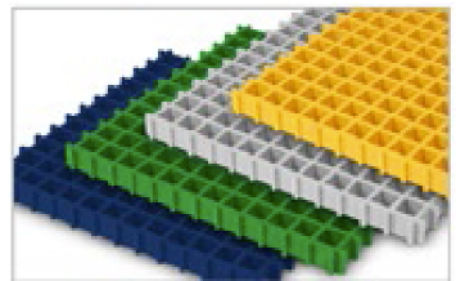
C-CLAMP FOR MOLDED GRATING



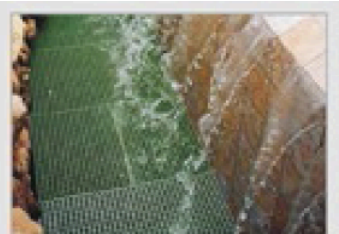
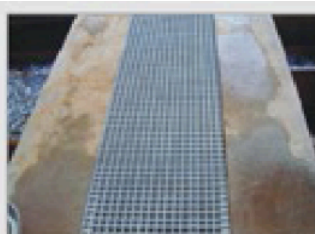
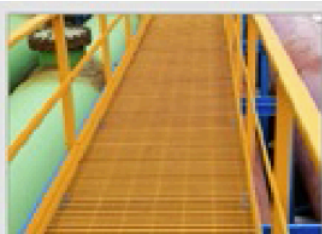
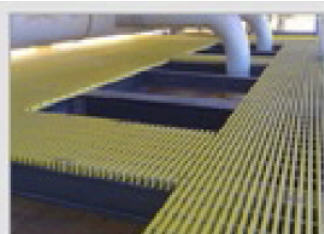
M-CLIP FOR PULTRUDED GRATING



Anti Slip Tape



Colors available



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