

# SecureSpan™ Pultruded Grating Products

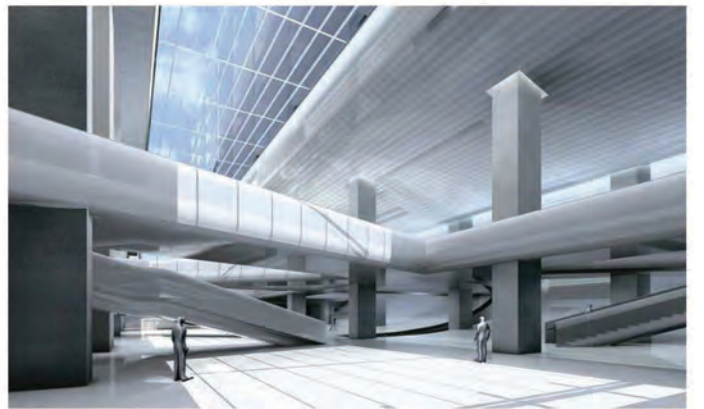
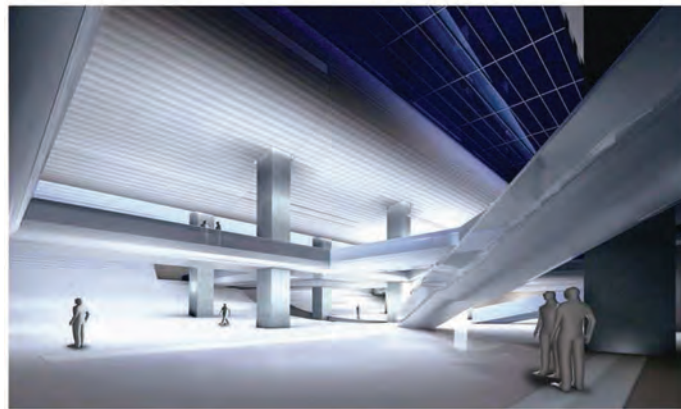


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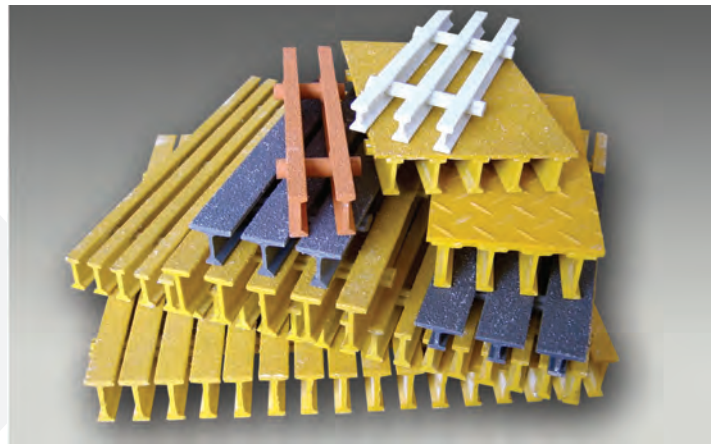
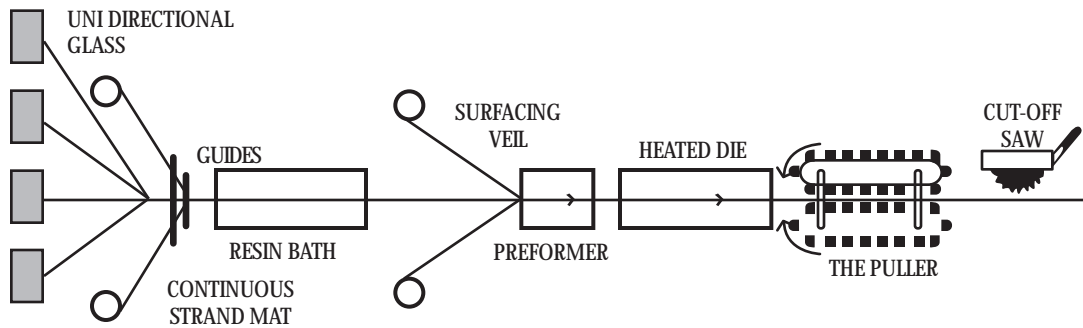




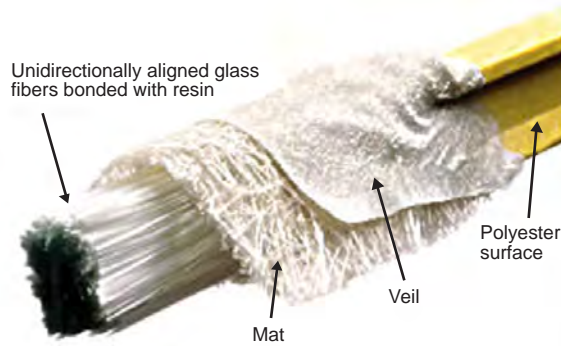
## SecureSpan™ Pultruded Grating Products

Pultruded grating and structural shapes are manufactured through an automated process where continuous fiberglass roving and mat are pulled through guides, a resin bath and pre-formers. They are then wrapped with a synthetic veil before being pulled through a heated die. The individual components of pultruded grating (load bars and each piece of tie bar) are pultruded separately. Load bars are then cut to specified lengths as they exit the machine. They are drilled at 6" or 12" centers for tie bar insertion. They are spaced proportionately for the width of the panel at 3 ft., 4 ft., or 5 ft. Tie bar assemblies are then inserted into the load bar, creating multiple bonded intersections of load bars and tie bars. This provides the security of both a mechanically locked and bonded connection. Finally, both load and tie bars are sealed with corrosion resistant epoxy resin.

Pultruded grating is manufactured with a high percentage of glass within the resin matrix (65% glass to 35% resin). The resulting product has high unidirectional strength, provides increased load capacity over longer spans, and is corrosion resistant. SecureSpan™ Pultruded Grating Products are a lightweight, UV resistant, and durable making them a preferred alternative to steel or aluminum gratings.



# Fiberglass Pultruded Grating Products



## Advantages of pultruded Grating:

- **High Strength:** Manufactured with high percentage of glass within the resin matrix (65% glass to 35% resin). SecureSpan™ Pultruded Grating provides higher strength over longer spans.
- **Exceptionally High Strength to Weight Ratio:** Due to its high strength to weight ratio, SecureSpan™ Pultruded Grating products weigh less compared to steel grating. Weight savings can range from 45% to 65% depending on the type of grating. This enables engineers to downsize supporting structure and cut down expenses for the overall project.
- **High Impact Resistance:** SecureSpan™ Pultruded Grating products can withstand major impacts with minimal structural damage.
- **Corrosion Resistance:** SecureSpan™ Pultruded Grating ensures optimum corrosion resistance from a variety of harsh chemicals. SecureSpan™ is available in premium Isophthalic Polyester and Vinyl Ester resins.
- **UV Resistance:** Resin rich surface and built-in UV inhibitors provide protection against the harmful rays.
- **Anti-Skid:** SecureSpan™ is manufactured with grit surface. This provides a safe, slip-resistant walking surface.
- **Fire-Retardant:** All SecureSpan™ Pultruded Grating products are manufactured with a flame spread rating of 25 or less as tested in accordance to ASTM E-84. These products also meet the self-extinguishing requirements of ASTM D-635.
- **Non-Conductive:** All SecureSpan™ Pultruded Grating products are thermally and electrically nonconductive, providing additional safety for employees.
- **Electronically Transparent:** FRP products do not interfere with electromagnetic and radio waves.
- **Minimal Maintenance:** FRP grating does not need to be maintained like steel grating products.
- **Ease of Fabrication:** SecureSpan™ Pultruded Grating products are light-weight. They can be lifted without heavy equipment and extra workers.



# Pultruded Grating Available Sizes, Resins, & Colors

## SecureSpan™ Pedestrian Pultruded Grating Selection & Details

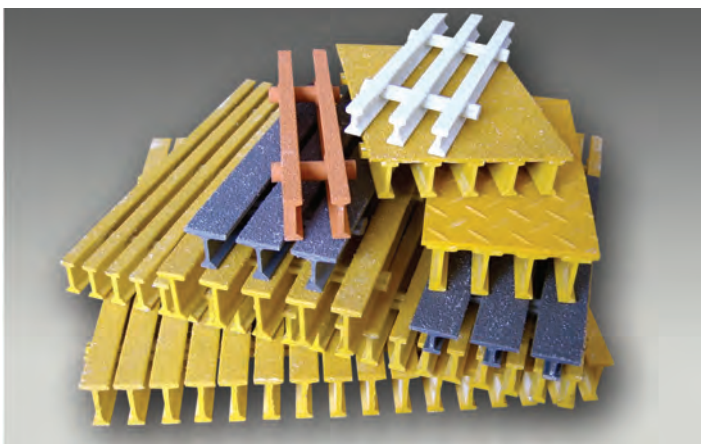
TYPE	THICKNESS	LOAD BAR SPACING	PANEL SIZE	WEIGHT / SQFT	OPEN AREA	COLORS	RESIN
MCT1810	1"	2"	3 Ft x 20 Ft, 4 Ft x 20 Ft	2.39 lbs	18%	Dark Gray, Light Gray, White	ISOFR, VEFR
MCT3310	1"	1.5"	3 Ft x 20 Ft, 4 Ft x 20 Ft	2.25 lbs	33 %	Yellow, Dark Gray	ISOFR, VEFR
MCT3510	1"	2.5"	3 Ft x 20 Ft, 4 Ft x 20 Ft	2 lbs	35 %	Yellow, Dark Gray	ISOFR, VEFR
MCT1715	1.5"	1.2"	3 Ft x 20 Ft, 4 Ft x 20 Ft	3.39 lbs	17 %	Yellow, Dark Gray	ISOFR, VEFR
MCT3315	1.5"	1.52"	3 Ft x 20 Ft, 4 Ft x 20 Ft	2.81 lbs	33 %	Yellow, Dark Gray	ISOFR, VEFR

## SecureSpan™ Industrial Pultruded Grating Selection & Details

TYPE	THICKNESS	LOAD BAR SPACING	PANEL SIZE	WEIGHT / SQFT	OPEN AREA	COLORS	RESIN
MCI4010	1"	1"	3 Ft x 20 Ft, 4 Ft x 20 Ft	3.6 lbs	40 %	Yellow, Dark Gray	ISOFR, VEFR
MCI6010	1"	1.5"	3 Ft x 20 Ft, 4 Ft x 20 Ft	2.33 lbs	60 %	Yellow, Dark Gray	ISOFR, VEFR
MCI4015	1.5"	1"	3 Ft x 20 Ft, 4 Ft x 20 Ft	4.5 lbs	40 %	Yellow, Dark Gray	ISOFR, VEFR
MCI6015	1.5"	1.5"	3 Ft x 20 Ft, 4 Ft x 20 Ft	3.30 lbs	60 %	Yellow, Dark Gray	ISOFR, VEFR
MCT3320	2"	1.5"	3 Ft x 20 Ft, 4 Ft x 20 Ft	4.44 lbs	33 %	Yellow, Dark Gray	ISOFR, VEFR
MCT5020	2"	2"	3 Ft x 20 Ft, 4 Ft x 20 Ft	3.43 lbs	50 %	Yellow, Dark Gray	ISOFR, VEFR

## SecureSpan™ Heavy Duty Pultruded Grating Selection & Details

TYPE	THICKNESS	LOAD BAR SPACING	PANEL SIZE	WEIGHT / SQFT	OPEN AREA	COLORS	RESIN
MCHD6010	1"	1.5"	3 Ft x 20 Ft, 4 Ft x 20 Ft	4.05 lbs	60 %	Yellow, Dark Gray	ISOFR, VEFR
MCHD5010	1"	1.2"	3 Ft x 20 Ft, 4 Ft x 20 Ft	4.94 lbs	50 %	Yellow, Dark Gray	ISOFR, VEFR
MCHD4010	1"	1"	3 Ft x 20 Ft, 4 Ft x 20 Ft	5.84 lbs	40 %	Yellow, Dark Gray	ISOFR, VEFR
MCHD6015	1.5"	1.5"	3 Ft x 20 Ft, 4 Ft x 20 Ft	6.25 lbs	60 %	Yellow, Dark Gray	ISOFR, VEFR
MCHD5015	1.5"	1.2"	3 Ft x 20 Ft, 4 Ft x 20 Ft	7.69 lbs	50 %	Yellow, Dark Gray	ISOFR, VEFR
MCHD4015	1.5"	1"	3 Ft x 20 Ft, 4 Ft x 20 Ft	9.13 lbs	40 %	Yellow, Dark Gray	ISOFR, VEFR
MCHD6020	2"	1.5"	3 Ft x 10 Ft, 4 Ft x 10 Ft	8.03 lbs	60 %	Yellow, Dark Gray	ISOFR, VEFR
MCHD5020	2"	1.2"	3 Ft x 20 Ft, 4 Ft x 20 Ft	9.92 lbs	50 %	Yellow, Dark Gray	ISOFR, VEFR
MCHD4020	2"	1"	3 Ft x 20 Ft, 4 Ft x 20 Ft	11.81 lbs	40 %	Yellow, Dark Gray	ISOFR, VEFR
MCHD6025	2.5"	1.5"	3 Ft x 10 Ft, 4 Ft x 10 Ft	10.71 lbs	60 %	Yellow, Dark Gray	ISOFR, VEFR
MCHD5025	2.5"	1.2"	3 Ft x 10 Ft, 4 Ft x 10 Ft	12.56 lbs	50 %	Yellow, Dark Gray	ISOFR, VEFR
MCHD4025	2.5"	1"	3 Ft x 10 Ft, 4 Ft x 10 Ft	14.42 lbs	40 %	Yellow, Dark Gray	ISOFR, VEFR



## SecureSpan™ Pultruded Grating Resins

Mona Composites manufactures molded grating products in following resins:

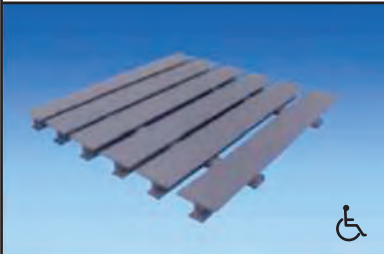
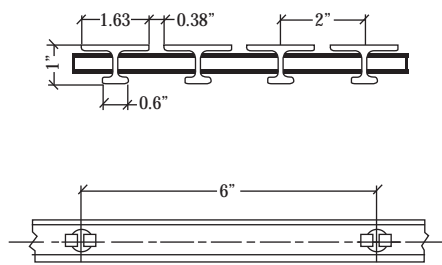
### VINYL ESTER (VFR / VEFR)

Among all available resins, vinyl ester resin provides the most corrosion resistance available throughout the Pultruded Grating industry. It offers outstanding resistance to a wide range of highly corrosive environments, from caustic to acidic. Especially in acidic environments where grating is subjected to frequent and or direct contact with harsh chemicals, Vinyl Ester resin has no match. Standard stock colors are Yellow and Dark Gray. Flame spread rating per ASTM E84 is of 25 or less.

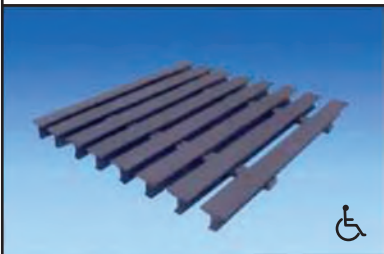
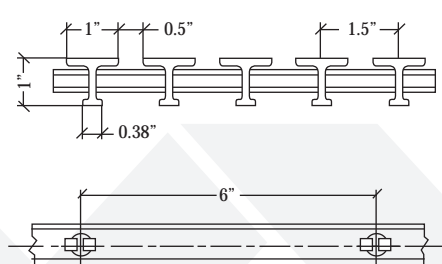
### ISOPHTHALIC POLYESTER (ISOFR)

ISOFR resin is designed with flame spread rating per ASTM E84 of 25 or less. This mid-level resin provides corrosion resistance to grating where it is subjected infrequent contact, splashes, and spills to harsh chemicals. It is available at a lower cost compared to VEFR resin. Standard stock colors are Yellow and Dark Gray.

### ◆ T-Bar 1" Deep 18% Open (MCT1810)

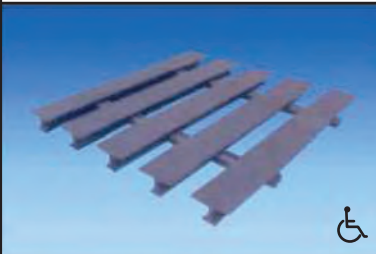
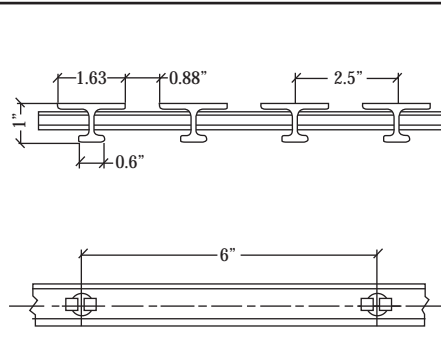
Engineering Properties Per Foot of Width:		$A=2.86 \text{ in}^2$	$I=0.37 \text{ in}^4$	$S_T=1.00 \text{ in}^3$	$S_B=0.59 \text{ in}^3$
		# of Bars:	6		
		Bar Depth:	1"		
Stocked Item		Open Area:	18%		
Panel Sizes Available: 3' x 20', 4' x 20'		Max Width:	5'		
		Load Bar Centers:	2"		
		Approx. Weight:	2.39 lbs/ft <sup>2</sup>		
		Cross Bar Spacing	6"		

### ◆ T-Bar 1" Deep 33% Open (MCT3310)


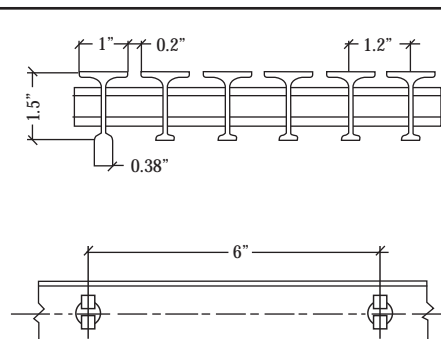
Engineering Properties Per Foot of Width:		$A=2.34 \text{ in}^2$	$I=0.27 \text{ in}^4$	$S_T=0.78 \text{ in}^3$	$S_B=0.42 \text{ in}^3$
		# of Bars:	8		
		Bar Depth:	1"		
Non-Stocked Item (Custom Order)		Open Area:	33%		
Panel Sizes Available: Please Call		Max Width:	5'		
		Load Bar Centers:	1.5"		
		Approx. Weight:	2.39 lbs/ft <sup>2</sup>		
		Cross Bar Spacing	6"		




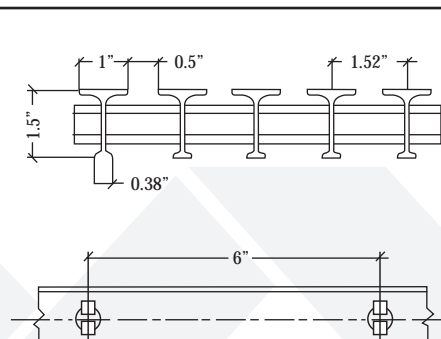
## ◆ T-Bar 1" Deep 35% Open (MCT3510)

Engineering Properties Per Foot of Width:		$A=2.38 \text{ in}^2$	$I=0.31 \text{ in}^4$	$S_T=0.84 \text{ in}^3$	$S_B=0.49 \text{ in}^3$
		# of Bars:	5		
		Bar Depth:	1"		
Non-Stocked Item (Custom Order)		Open Area:	35%		
Panel Sizes Available: Please Call		Max Width:	5'		
		Load Bar Centers:	2.5"		
		Approx. Weight:	2.00 lbs/ft <sup>2</sup>		
		Cross Bar Spacing:	6"		

## ◆ T-Bar 1 1/2" Deep 17% Open (MCT1715)

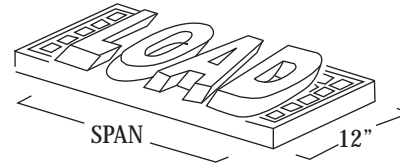
Engineering Properties Per Foot of Width:		$A=3.08 \text{ in}^2$	$I=0.9 \text{ in}^4$	$S_T=1.41 \text{ in}^3$	$S_B=1.05 \text{ in}^3$
		# of Bars:	10		
		Bar Depth:	1.5"		
Non-Stocked Item (Custom Order)		Open Area:	17%		
Panel Sizes Available: Please Call		Max Width:	5'		
		Load Bar Centers:	1.2"		
		Approx. Weight:	3.39 lbs/ft <sup>2</sup>		
		Cross Bar Spacing:	6"		

## ◆ T-Bar 1 1/2" Deep 33% Open (MCT3315)

Engineering Properties Per Foot of Width:		$A=2.47 \text{ in}^2$	$I=0.72 \text{ in}^4$	$S_T=1.13 \text{ in}^3$	$S_B=0.84 \text{ in}^3$
		# of Bars:	8		
		Bar Depth:	1.5"		
Non-Stocked Item (Custom Order)		Open Area:	33%		
Panel Sizes Available: Please Call		Max Width:	5'		
		Load Bar Centers:	1.5"		
		Approx. Weight:	2.81 lbs/ft <sup>2</sup>		
		Cross Bar Spacing:	6"		

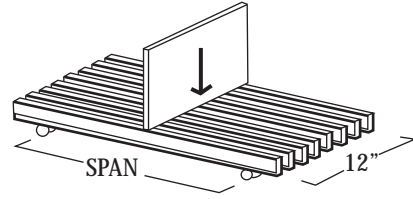
# Pedestrian Grating Deflection Tables

## Pultruded Pedestrian Grating: Uniform Load Deflection Table:



SPAN in inches	STYLE	LOAD IN lbs/ft <sup>2</sup>								Max Rec. Load	Apparent EI x 10 <sup>6</sup> (LB-IN <sup>2</sup> )
		50	100	150	200	250	500	1000	2000		
12	MCT1810	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.05	10,418	0.96
	MCT3310	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03	0.06	7,599	0.70
	MCT3510	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03	0.06	7,620	0.74
	MCT1715	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	13,240	1.89
	MCT3315	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	10,541	1.71
18	MCT1810	<0.01	<0.01	0.01	0.02	0.02	0.05	0.09	0.19	4,562	1.22
	MCT3310	<0.01	0.01	0.02	0.03	0.03	0.06	0.13	0.25	3,314	0.90
	MCT3510	<0.01	0.01	0.02	0.02	0.03	0.06	0.12	0.24	3,339	0.95
	MCT1715	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.04	0.08	5,884	2.72
	MCT3315	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.05	0.10	4,685	2.30
24	MCT1810	0.01	0.03	0.04	0.06	0.07	0.14	0.27		2,582	1.32
	MCT3310	0.02	0.04	0.06	0.07	0.09	0.18	0.36		1,957	0.99
	MCT3510	0.02	0.03	0.05	0.07	0.08	0.17	0.33		1,898	1.08
	MCT1715	<0.01	0.01	0.02	0.02	0.03	0.06	0.11	0.22	3,310	3.20
	MCT3315	<0.01	0.01	0.02	0.03	0.03	0.07	0.14	0.27	2,635	2.65
30	MCT1810	0.03	0.07	0.10	0.13	0.16	0.32			1,626	1.36
	MCT3310	0.04	0.09	0.13	0.17	0.22	0.43			1,258	1.02
	MCT3510	0.04	0.08	0.12	0.15	0.02	0.39			1,204	1.14
	MCT1715	0.01	0.02	0.04	0.05	0.06	0.12	0.25		2,118	3.52
	MCT3315	0.02	0.03	0.05	0.06	0.08	0.16	0.32	0.50	1,687	2.75
36	MCT1810	0.07	0.13	0.20	0.26	0.33				1,137	1.38
	MCT3310	0.09	0.18	0.26	0.35	0.44				883	1.04
	MCT3510	0.08	0.16	0.24	0.31	0.39				835	1.16
	MCT1715	0.03	0.05	0.08	0.10	0.13	0.25			1,471	3.60
	MCT3315	0.03	0.07	0.10	0.13	0.16	0.33			1,171	2.79
42	MCT1810	0.12	0.24	0.36	0.48					835	1.40
	MCT3310	0.16	0.32	0.48						655	1.05
	MCT3510	0.14	0.29	0.43						614	1.18
	MCT1715	0.05	0.09	0.14	0.19	0.23	0.47			1,081	3.62
	MCT3315	0.06	0.12	0.18	0.24	0.30				861	2.83
48	MCT1810	0.20	0.41							638	1.42
	MCT3310	0.27								502	1.06
	MCT3510	0.24	0.48							470	1.20
	MCT1715	0.08	0.16	0.24	0.32	0.40				827	3.64
	MCT3315	0.10	0.20	0.30	0.40	0.50				659	2.86
54	MCT1715	0.13	0.25	0.38	0.50					654	3.66
	MCT3315	0.16	0.32	0.48						521	2.89
60	MCT1715	0.19	0.38							530	3.68
	MCT3315	0.24	0.48							422	2.91
66	MCT1715	0.28								438	3.70
	MCT3315	0.35								348	2.93

# Pedestrian Grating Deflection Tables

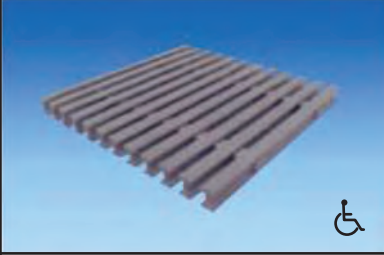
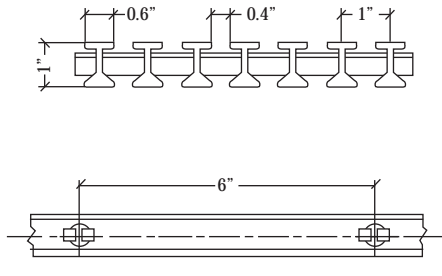


**Pultruded Pedestrian Grating Concentrated Line Load Deflection Table:**

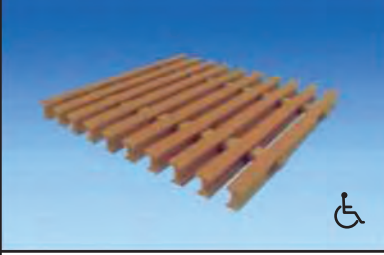
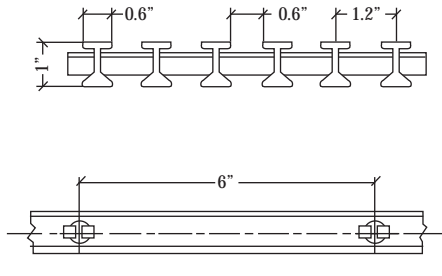
SPAN in inches	STYLE	LOAD IN lbs/ft OF WIDTH								Max Rec. Load	Apparent El x 10 <sup>6</sup> (LB-IN <sup>2</sup> )
		50	100	150	200	250	500	1000	2000		
12	MCT1810	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	0.08	5,112	0.96
	MCT3310	<0.01	<0.01	<0.01	0.01	0.01	0.03	0.05	0.10	1,950	0.70
	MCT3510	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.05	0.10	3,759	0.74
	MCT1715	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	10,343	1.89
	MCT3315	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.04	8,235	1.71
18	MCT1810	<0.01	<0.01	0.01	0.02	0.02	0.05	0.10	0.20	3,408	1.22
	MCT3310	<0.01	0.01	0.02	0.03	0.03	0.07	0.14	0.27	1,300	0.90
	MCT3510	<0.01	0.01	0.02	0.03	0.03	0.06	0.13	0.26	2,506	0.95
	MCT1715	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.04	0.09	6,895	2.72
	MCT3315	<0.01	<0.01	<0.01	0.01	0.01	0.03	0.05	0.11	5,490	2.30
24	MCT1810	0.01	0.02	0.03	0.04	0.05	0.11	0.22	0.44	2,556	1.32
	MCT3310	0.01	0.03	0.04	0.06	0.07	0.15	0.29		975	0.99
	MCT3510	0.01	0.03	0.04	0.05	0.07	0.13	0.27		1,880	1.08
	MCT1715	<0.01	<0.01	0.01	0.02	0.02	0.05	0.09	0.18	5,172	3.20
	MCT3315	<0.01	0.01	0.02	0.02	0.03	0.05	0.11	0.22	4,118	2.65
30	MCT1810	0.02	0.04	0.06	0.08	0.10	0.21	0.41		2,045	1.36
	MCT3310	0.03	0.06	0.08	0.11	0.14	0.28			780	1.02
	MCT3510	0.02	0.05	0.07	0.10	0.12	0.25	0.49		1,504	1.14
	MCT1715	<0.01	0.02	0.02	0.03	0.04	0.08	0.16	0.32	4,137	3.52
	MCT3315	0.01	0.02	0.03	0.04	0.05	0.10	0.20	0.41	3,294	2.75
36	MCT1810	0.04	0.07	0.11	0.14	0.18	0.35			1,704	1.38
	MCT3310	0.05	0.09	0.14	0.19	0.23	0.47			650	1.04
	MCT3510	0.04	0.08	0.13	0.17	0.21	0.42			1,253	1.16
	MCT1715	0.01	0.03	0.04	0.05	0.07	0.14	0.27		3,448	3.60
	MCT3315	0.02	0.03	0.05	0.07	0.09	0.17	0.35		2,745	2.79
42	MCT1810	0.06	0.11	0.17	0.22	0.28				1,461	1.40
	MCT3310	0.07	0.15	0.22	0.29	0.37				557	1.05
	MCT3510	0.07	0.13	0.20	0.26	0.33				1,074	1.18
	MCT1715	0.02	0.04	0.06	0.09	0.11	0.21	0.43		2,955	3.62
	MCT3315	0.03	0.05	0.08	0.11	0.14	0.27			2,353	2.83
48	MCT1810	0.08	0.16	0.24	0.32	0.41				1,278	1.42
	MCT3310	0.11	0.22	0.33	0.43					488	1.06
	MCT3510	0.10	0.19	0.29	0.38	0.48				940	1.20
	MCT1715	0.03	0.06	0.09	0.13	0.16	0.32			2,586	3.64
	MCT3315	0.04	0.08	0.12	0.16	0.20	0.40			2,059	2.86
54	MCT1715	0.04	0.09	0.13	0.18	0.22	0.45			2,298	3.66
	MCT3315	0.06	0.11	0.17	0.23	0.28				1,830	2.89
60	MCT1715	0.06	0.12	0.18	0.24	0.31				2,069	3.68
	MCT3315	0.08	0.15	0.23	0.31	0.39				1,647	2.91
66	MCT1715	0.08	0.16	0.24	0.32	0.40				1,881	3.70
	MCT3315	0.10	0.20	0.31	0.41	0.51				1,497	2.93

# Pultruded Industrial Grating Details


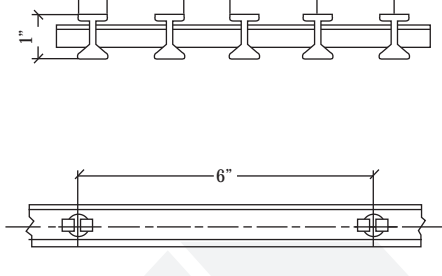
## ◆ I-Bar 1" Deep 40% Open (MCI4010)

Engineering Properties Per Foot of Width:		$A=3.66 \text{ in}^2$	$I=0.46 \text{ in}^4$	$S =0.93 \text{ in}^3$
		# of Bars:	12	
		Bar Depth:	1"	
Stocked Item		Open Area:	40%	
Panel Sizes Available: 4' x 12'		Max Width:	5'	
		Load Bar Centers:	1"	
		Approx. Weight:	3.60 lbs/ft <sup>2</sup>	
		Cross Bar Spacing:	6"	

## ◆ T-Bar 1" Deep 50% Open (MCT5010)

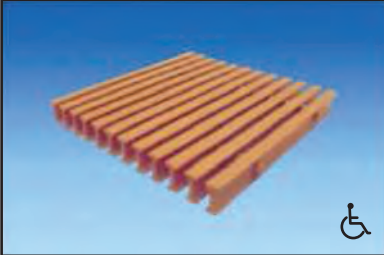
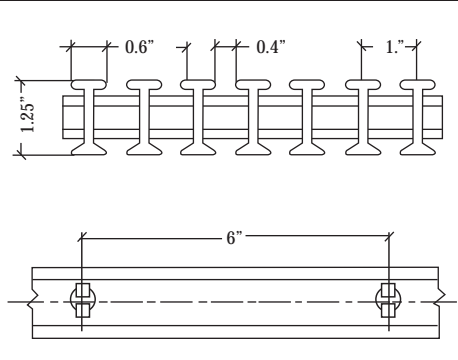
Engineering Properties Per Foot of Width:		$A=3.66 \text{ in}^2$	$I=0.46 \text{ in}^4$	$S =0.93 \text{ in}^3$
		# of Bars:	10	
		Bar Depth:	1"	
Non-Stocked Item (Custom Order)		Open Area:	50%	
Panel Sizes Available: Please Call		Max Width:	5'	
		Load Bar Centers:	1.2"	
		Approx. Weight:	3.02 lbs/ft <sup>2</sup>	
		Cross Bar Spacing:	6"	

## ◆ I-Bar 1" Deep 60% Open (MCI6010)

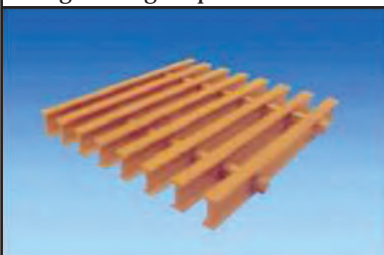
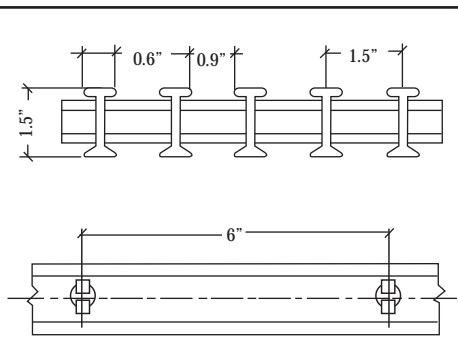
Engineering Properties Per Foot of Width:		$A=2.44 \text{ in}^2$	$I=0.31 \text{ in}^4$	$S=0.62 \text{ in}^3$
		# of Bars:	8	
		Bar Depth:	1"	
Non-Stocked Item (Custom Order)		Open Area:	60%	
Panel Sizes Available: (3'x20'),(4'x20')		Max Width:	5'	
		Load Bar Centers:	1.5"	
		Approx. Weight:	2.33 lbs/ft <sup>2</sup>	
		Cross Bar Spacing:	6"	

# Pultruded Industrial Grating Details


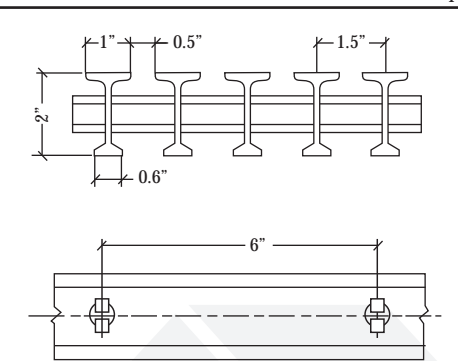
## ◆ I-Bar 1 1/2" Deep 40% Open (MCI4015)

Engineering Properties Per Foot of Width:		$A=4.60 \text{ in}^2$	$I=1.32 \text{ in}^4$	$S=1.76 \text{ in}^3$
		# of Bars:	12	
		Bar Depth:	1.5"	
Non-Stocked Item (Custom Order)		Open Area:	40%	
Panel Sizes Available: 4'x20'		Max Width:	5'	
		Load Bar Centers:	1"	
		Approx. Weight:	4.50 lbs/ft <sup>2</sup>	
		Cross Bar Spacing:	6"	

## ◆ T-Bar 1 1/2" Deep 60% Open (MCI6015)

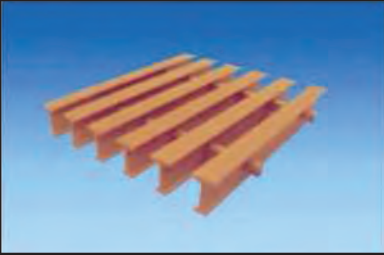
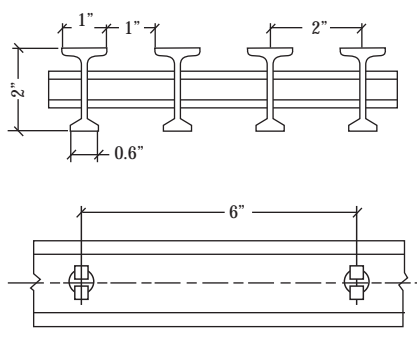
Engineering Properties Per Foot of Width:		$A=3.06 \text{ in}^2$	$I=0.88 \text{ in}^4$	$S=1.17 \text{ in}^3$
		# of Bars:	8	
		Bar Depth:	1.5"	
Non-Stocked Item (Custom Order)		Open Area:	60%	
Panel Sizes Available: (3'x20'), (4'x20')		Max Width:	5'	
		Load Bar Centers:	1.5"	
		Approx. Weight:	3.30 lbs/ft <sup>2</sup>	
		Cross Bar Spacing:	6"	

## ◆ T-Bar 2" Deep 33% Open (MCT3320)

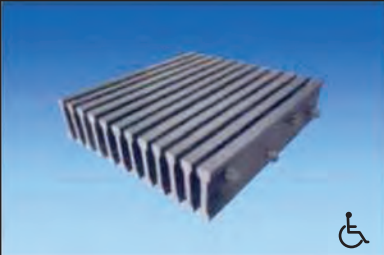
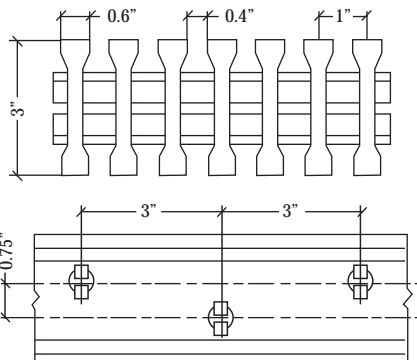
Engineering Properties Per Foot of Width:		$A=4.3 \text{ in}^2$	$I=1.32 \text{ in}^4$	$S_T=2.64 \text{ in}^3$	$S_B=1.76 \text{ in}^3$
		# of Bars:	8		
		Bar Depth:	2"		
Non-Stocked Item (Custom Order)		Open Area:	33%		
Panel Sizes Available: 4'x20'		Max Width:	5'		
		Load Bar Centers:	1.5"		
		Approx. Weight:	4.44 lbs/ft <sup>2</sup>		
		Cross Bar Spacing:	6"		

# Pultruded Industrial Grating Details

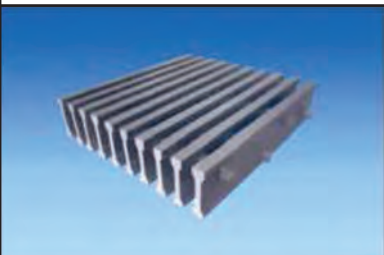
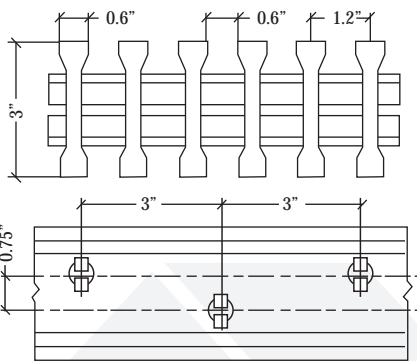
## ◆ T-Bar 2" Deep 50% Open (MCT5020)

Engineering Properties Per Foot of Width:		$A=3.23 \text{ in}^2$	$I=1.58 \text{ in}^4$	$S_T=1.98 \text{ in}^3$	$S_B=1.32 \text{ in}^3$		
	Non-Stocked Item (Custom Order)					# of Bars:	6
						Bar Depth:	2"
Panel Sizes Available: Please Call						Open Area:	50%
						Max Width:	5'
						Load Bar Centers:	2"
						Approx. Weight:	3.43 lbs/ft <sup>2</sup>
						Cross Bar Spacing	6"

## ◆ I-Bar 3" Deep 60% Open (MCHDI6030)

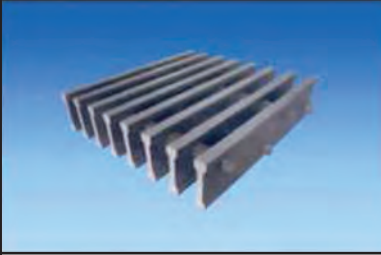
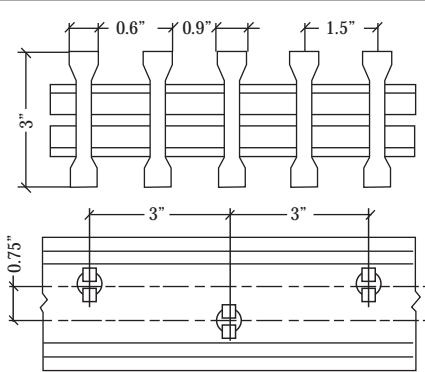
Engineering Properties Per Foot of Width:		$A=3.06 \text{ in}^2$	$I=0.88 \text{ in}^4$	$S=1.17 \text{ in}^3$			
	Non-Stocked Item (Custom Order)					# of Bars:	8
						Bar Depth:	1.5"
Panel Sizes Available: (3'x20'), (4'x20')						Open Area:	60%
						Max Width:	5'
						Load Bar Centers:	1.5"
						Approx. Weight:	3.30 lbs/ft <sup>2</sup>
						Cross Bar Spacing	6"

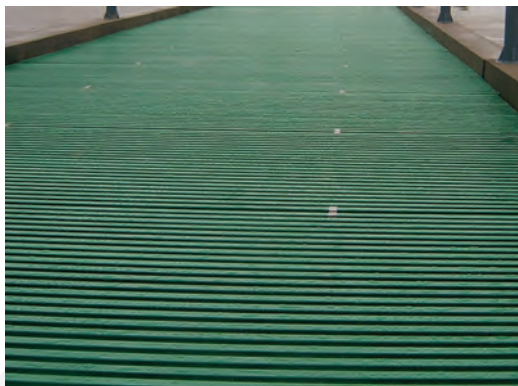
## ◆ I-Bar 3" Deep 50% Open (MCHDI5030)

Engineering Properties Per Foot of Width:		$A=9.75 \text{ in}^2$	$I=11.47 \text{ in}^4$	$S=7.65 \text{ in}^3$			
	Non-Stocked Item (Custom Order)					# of Bars:	10
						Bar Depth:	3"
Panel Sizes Available: Please Call						Open Area:	50%
						Max Width:	5'
						Load Bar Centers:	1.2"
						Approx. Weight:	10.85 lbs/ft <sup>2</sup>
						Cross Bar Spacing	3"

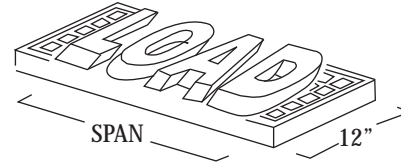
# Pultruded Industrial Grating Details

## ◆ I-Bar 3" Deep 40% Open (MCHDI4030)

Engineering Properties Per Foot of Width:		$A=11.18 \text{ in}^2$	$I=13.76 \text{ in}^4$	$S=9.18 \text{ in}^3$
		# of Bars:	8	
		Bar Depth:	3"	
Non-Stocked Item (Custom Order)		Open Area:	40%	
Panel Sizes Available: Please Call		Max Width:	5'	
		Load Bar Centers:	1"	
		Approx. Weight:	12.35 lbs/ft <sup>2</sup>	
		Cross Bar Spacing:	3"	



# Pultruded Industrial Grating Deflection Tables



**Pultruded Industrial Grating:  
Uniform Load Deflection Table:**

SPAN in inches	STYLE	LOAD IN lbs/ft <sup>2</sup>								Max Rec. Load	Apparent El x 10 <sup>6</sup> (LB-IN <sup>2</sup> )
		50	100	150	200	250	500	1000	2000		
12	MCI4010 ㄩ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	17,605	1.80
	MCI6010	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.04	7,944	1.10
	MCI4015 ㄩ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	21,051	3.00
	MCI6015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	13,992	2.46
	MCT3320 ㄩ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	20,269	3.60
	MCT5020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	23,936	1.80
	MCHDI4030 ㄩ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	76,262	12.45
	MCHDI5030	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	59,802	8.56
MCHDI6030	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	44,333	6.85	
18	MCI4010 ㄩ	<0.01	<0.01	<0.01	0.01	0.01	0.03	0.05	0.11	7,969	2.10
	MCI6010	<0.01	<0.01	0.01	0.02	0.02	0.04	0.08	0.17	5,296	1.38
	MCI4015 ㄩ	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.05	14,559	4.88
	MCI6015	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	0.07	7,016	3.23
	MCT3320 ㄩ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	13,524	6.07
	MCT5020	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	0.06	8,624	4.15
	MCHDI4030 ㄩ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	33,894	19.96
	MCHDI5030	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	26,578	15.02
MCHDI6030	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	19,703	11.68	
24	MCI4010 ㄩ	<0.01	0.02	0.02	0.03	0.04	0.08	0.16	0.32	3,961	2.28
	MCI6010	0.01	0.02	0.04	0.05	0.06	0.12	0.23	0.47	2,935	1.54
	MCI4015 ㄩ	<0.01	<0.01	<0.01	0.01	0.02	0.03	0.06	0.12	7,136	5.90
	MCI6015	<0.01	<0.01	0.01	0.02	0.02	0.05	0.09	0.18	4,585	3.91
	MCT3320 ㄩ	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.05	0.09	7,398	7.89
	MCT5020	<0.01	<0.01	<0.01	0.01	0.02	0.03	0.06	0.12	6,468	6.17
	MCHDI4030 ㄩ	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	19,066	26.81
	MCHDI5030	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	14,950	21.12
MCHDI6030	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.04	11,083	16.68	
30	MCI4010 ㄩ	0.02	0.04	0.06	0.07	0.09	0.19	0.37		2,574	2.37
	MCI6010	0.03	0.05	0.08	0.11	0.14	0.27			1,845	1.63
	MCI4015 ㄩ	<0.01	0.01	0.02	0.03	0.03	0.07	0.14	0.28	4,405	6.40
	MCI6015	0.01	0.02	0.03	0.04	0.05	0.10	0.21	0.42	2,831	4.24
	MCT3320 ㄩ	<0.01	<0.01	0.01	0.02	0.02	0.05	0.09	0.19	5,437	9.32
	MCT5020	<0.01	0.01	0.18	0.02	0.03	0.06	0.12	0.24	4,242	7.35
	MCHDI4030 ㄩ	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	0.05	12,202	32.86
	MCHDI5030	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03	0.07	9,568	26.84
MCHDI6030	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.04	0.08	7,093	20.78	
36	MCI4010 ㄩ	0.04	0.08	0.11	0.15	0.19	0.38			1,791	2.42
	MCI6010	0.06	0.11	0.17	0.22	0.27				1,281	1.66
	MCI4015 ㄩ	0.01	0.03	0.04	0.06	0.07	0.14	0.27		3,161	6.66
	MCI6015	0.02	0.04	0.06	0.08	0.10	0.21	0.41		2,006	4.41
	MCT3320 ㄩ	<0.01	0.02	0.03	0.04	0.05	0.09	0.18	0.36	3,612	10.10
	MCT5020	0.01	0.02	0.03	0.05	0.06	0.12	0.23	0.46	2,946	7.95
	MCHDI4030 ㄩ	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.05	0.10	8,474	37.90
	MCHDI5030	<0.01	<0.01	<0.01	0.01	0.01	0.03	0.06	0.11	6,645	32.25
MCHDI6030	<0.01	<0.01	0.01	0.01	0.02	0.04	0.07	0.14	4,926	25.24	



# Pultruded Industrial Grating Deflection Tables



**Pultruded Industrial Grating:  
Uniform Load Deflection Table:**

SPAN in inches	STYLE	LOAD IN lbs/ft <sup>2</sup>								Max Rec. Load	Apparent El x 10 <sup>6</sup> (LB-IN <sup>2</sup> )	
		50	100	150	200	250	500	1000	2000			
42	MCI4010 Ⓡ	0.07	0.14	0.21	0.28	0.35					1,314	2.44
	MCI6010	0.10	0.20	0.30	0.40	0.50					943	1.68
	MCI4015 Ⓡ	0.03	0.05	0.08	0.10	0.13	0.25	0.50			2,292	6.75
	MCI6015	0.04	0.08	0.11	0.15	0.19	0.38				1,454	4.47
	MCT3320 Ⓡ	0.02	0.03	0.05	0.06	0.08	0.16	0.32			2,635	10.60
	MCT5020	0.02	0.04	0.06	0.08	0.10	0.20	0.41			2,153	8.31
	MCHDI4030 Ⓡ	<0.01	<0.01	<0.01	0.02	0.02	0.04	0.08	0.16		6,226	42.09
	MCHDI5030	<0.01	<0.01	0.01	0.02	0.02	0.05	0.09	0.18		4,882	36.75
	MCHDI6030	<0.01	0.01	0.02	0.02	0.03	0.06	0.11	0.23		3,619	29.42
48	MCI4010 Ⓡ	0.12	0.24	0.35	0.47						1,004	2.45
	MCI6010	0.17	0.34								721	1.70
	MCI4015 Ⓡ	0.04	0.09	0.13	0.17	0.21	0.42				1,746	6.81
	MCI6015	0.06	0.13	0.19	0.26	0.32					1,117	4.58
	MCT3320 Ⓡ	0.03	0.05	0.08	0.10	0.13	0.26				2,030	11.06
	MCT5020	0.03	0.07	0.10	0.14	0.17	0.34				1,672	8.55
	MCHDI4030 Ⓡ	<0.01	0.01	0.02	0.03	0.03	0.06	0.13	0.25		4,766	45.51
	MCHDI5030	<0.01	0.01	0.02	0.03	0.04	0.07	0.14	0.29		3,738	40.14
	MCHDI6030	<0.01	0.02	0.03	0.04	0.04	0.09	0.18	0.35		2,771	32.70
54	MCI4010 Ⓡ	0.19	0.38								792	2.46
	MCI6010	0.27									571	1.72
	MCI4015 Ⓡ	0.07	0.14	0.20	0.27	0.34					1,387	6.83
	MCI6015	0.10	0.20	0.31	0.41	0.51					885	4.52
	MCT3320 Ⓡ	0.04	0.08	0.12	0.16	0.21	0.41				1,600	11.26
	MCT5020	0.05	0.11	0.16	0.21	0.27					1,310	8.65
	MCHDI4030 Ⓡ	<0.01	0.02	0.03	0.04	0.05	0.10	0.19	0.38		3,766	48.27
	MCHDI5030	0.01	0.02	0.03	0.04	0.05	0.11	0.21	0.43		2,953	43.00
	MCHDI6030	0.01	0.03	0.04	0.05	0.07	0.13	0.26			2,189	35.00
60	MCI4010 Ⓡ	0.28									712	2.47
	MCI6010	0.40									514	1.74
	MCI4015 Ⓡ	0.10	0.21	0.31	0.41	0.51					1,124	6.85
	MCI6015	0.16	0.31	0.47							717	4.54
	MCT3320 Ⓡ	0.06	0.12	0.19	0.25	0.31					1,295	11.36
	MCT5020	0.08	0.16	0.24	0.32	0.40					1,062	8.75
	MCHDI4030 Ⓡ	0.01	0.03	0.04	0.06	0.07	0.14	0.28			3,050	50.22
	MCHDI5030	0.02	0.03	0.05	0.06	0.08	0.16	0.31			2,392	44.86
	MCHDI6030	0.02	0.04	0.06	0.08	0.10	0.19	0.39			1,773	36.30
66	MCI4015 Ⓡ	0.15	0.30	0.45							928	6.87
	MCI6015	0.23	0.45								592	4.55
	MCT3320 Ⓡ	0.09	0.18	0.27	0.36	0.45					1,070	11.46
	MCT5020	0.12	0.23	0.35	0.47						881	8.78
	MCHDI4030 Ⓡ	0.02	0.04	0.06	0.08	0.10	0.20	0.40			2,521	51.62
	MCHDI5030	0.02	0.04	0.07	0.09	0.11	0.22	0.45			1,977	46.00
	MCHDI6030	0.03	0.06	0.08	0.11	0.14	0.28				1,466	37.40

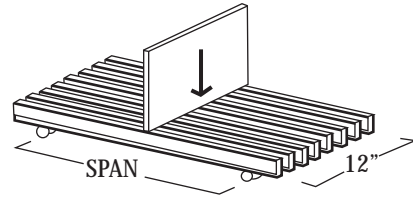
# Pultruded Industrial Grating Deflection Tables

## Pultruded Industrial Grating: Uniform Load Deflection Table:



SPAN in inches	STYLE	LOAD IN lbs/ft <sup>2</sup>								Max Rec. Load	Apparent El x 10 <sup>6</sup> (LB-IN <sup>2</sup> )	
		50	100	150	200	250	500	1000	2000			
72	MCI4015 &	0.21	0.42								779	6.88
	MCI6015	0.32									498	4.56
	MCT3320	0.13	0.25	0.38	0.51						899	11.50
	MCT5020 &	0.17	0.33	0.50							740	8.80
	MCHDI4030	0.03	0.06	0.08	0.11	0.14	0.28				2,118	52.62
	MCHDI5030 &	0.03	0.06	0.09	0.12	0.16	0.31				1,661	47.00
	MCHDI6030	0.04	0.08	0.11	0.15	0.19	0.38				1,231	38.30
84	MCHDI4030 &	0.05	0.10	0.15	0.20	0.25	0.50				1,556	54.11
	MCHDI5030	0.06	0.11	0.17	0.22	0.28					1,220	48.40
	MCHDI6030	0.07	0.14	0.21	0.27	0.34					905	39.50
96	MCHDI4030 &	0.08	0.17	0.25	0.33	0.42					1192	55.32
	MCHDI5030	0.09	0.19	0.28	0.38	0.47					934	49.10
	MCHDI6030	0.11	0.23	0.34	0.46						693	40.20

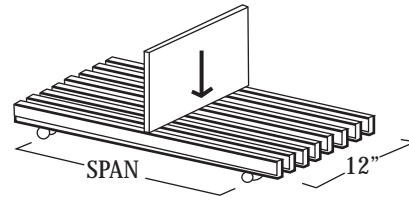
# Pultruded Industrial Grating Deflection Tables



Pultruded Industrial Grating Concentrated Line Load Deflection Table:

SPAN in inches	STYLE	LOAD IN lbs/ft OF WIDTH								Max Rec. Load	Apparent El x 10 <sup>6</sup> (LB-IN <sup>2</sup> )
		50	100	150	200	250	500	1000	2000		
12	MCI4010 &	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.04	8.028	1.80
	MCI6010	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	0.07	5.755	1.10
	MCI4015 &	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	14,034	3.00
	MCI6015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	8,958	1.99
	MCT3320 &	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	16,215	3.60
	MCT5020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	13,302	1.80
	MCHDI4030 &	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	59,580	12.45
	MCHDI5030	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	46,720	8.56
	MCHDI6030	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	34,635	6.85
18	MCI4010 &	<0.01	<0.01	<0.01	0.01	0.01	0.03	0.06	0.12	5,352	2.10
	MCI6010	<0.01	<0.01	0.01	0.02	0.02	0.04	0.09	0.18	3,850	1.38
	MCI4015 &	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.05	9,356	4.88
	MCI6015	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	0.08	5,972	3.23
	MCT3320 &	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.04	10,810	6.07
	MCT5020	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	0.06	8,686	4.15
	MCHDI4030 &	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	39,720	19.96
	MCHDI5030	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	31,147	15.02
	MCHDI6030	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	23,090	11.68
24	MCI4010 &	<0.01	0.01	0.02	0.03	0.03	0.06	0.13	0.25	4,014	2.28
	MCI6010	<0.01	0.02	0.03	0.04	0.05	0.09	0.19	0.37	2,888	1.54
	MCI4015 &	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.05	0.10	7,017	5.90
	MCI6015	<0.01	<0.01	0.01	0.01	0.02	0.04	0.07	0.15	4,479	3.91
	MCT3320 &	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	0.07	8,108	7.89
	MCT5020	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.05	0.09	6,651	6.17
	MCHDI4030 &	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	29,790	26.81
	MCHDI5030	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	23,360	21.12
	MCHDI6030	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03	17,318	16.68
30	MCI4010 &	0.01	0.02	0.04	0.05	0.06	0.12	0.24	0.47	3,211	2.37
	MCI6010	0.02	0.03	0.05	0.07	0.09	0.17	0.35	0.50	2,310	1.63
	MCI4015 &	<0.01	<0.01	0.01	0.02	0.02	0.04	0.09	0.18	5,614	6.40
	MCI6015	<0.01	0.01	0.02	0.03	0.03	0.07	0.13	0.27	3,853	4.24
	MCT3320 &	<0.01	<0.01	<0.01	0.01	0.02	0.03	0.06	0.12	6,486	9.32
	MCT5020	<0.01	<0.01	0.01	0.02	0.02	0.04	0.08	0.15	5,321	7.35
	MCHDI4030 &	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03	23,832	32.86
	MCHDI5030	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.04	18,688	26.84
	MCHDI6030	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	0.05	13,854	20.78
36	MCI4010 &	0.02	0.04	0.06	0.08	0.10	0.20	0.40		2,676	2.42
	MCI6010	0.03	0.06	0.09	0.12	0.15	0.29	0.41		1,925	1.66
	MCI4015 &	<0.01	0.01	0.02	0.03	0.04	0.07	0.15	0.29	4,678	6.66
	MCI6015	0.01	0.02	0.03	0.04	0.06	0.11	0.22	0.44	2,986	4.46
	MCT3320 &	<0.01	<0.01	0.01	0.02	0.02	0.05	0.10	0.19	5,405	10.10
	MCT5020	<0.01	0.01	0.02	0.02	0.03	0.06	0.12	0.24	4,434	7.95
	MCHDI4030 &	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	0.05	19,860	37.90
	MCHDI5030	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03	0.06	15,573	32.25
	MCHDI6030	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	0.08	11,545	25.24

# Pultruded Industrial Grating Deflection Tables

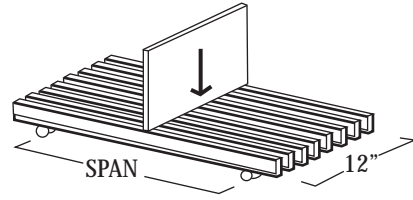


Pultruded Industrial Grating  
Concentrated Line Load Deflection Table:

SPAN in inches	STYLE	LOAD IN lbs/ft OF WIDTH								Max Rec. Load	Apparent El x 10 <sup>6</sup> (LB-IN <sup>2</sup> )
		50	100	150	200	250	500	1000	2000		
42	MCI4010 &	0.03	0.06	0.09	0.13	0.16	0.32			2,294	2.44
	MCI6010	0.05	0.09	0.14	0.18	0.23	0.46			1,650	1.68
	IMCI4015 &	0.01	0.02	0.03	0.05	0.06	0.11	0.23	0.46	4,010	6.75
	MCI6015	0.02	0.03	0.05	0.07	0.09	0.17	0.35		2,559	4.47
	MCT3320 &	<0.01	0.01	0.02	0.03	0.04	0.07	0.15	0.29	4,633	10.60
	MCT5020	<0.01	0.02	0.03	0.04	0.05	0.09	0.19	0.37	3,801	8.31
	MCHDI4030 &	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	0.07	17,203	42.09
	MCHDI5030	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.04	0.08	13,439	36.75
	MCHDI6030	<0.01	<0.01	<0.01	0.01	0.01	0.03	0.05	0.10	9,896	29.42
48	MCI4010 &	0.05	0.09	0.14	0.19	0.24	0.47			2,007	2.45
	MCI6010	0.07	0.14	0.20	0.27	0.34				1,444	1.70
	MCI4015 &	0.02	0.03	0.05	0.07	0.08	0.17	0.34		3,509	6.81
	MCI6015	0.03	0.05	0.08	0.10	0.13	0.26	0.51		2,240	4.51
	MCT3320 &	0.01	0.02	0.03	0.04	0.05	0.10	0.21	0.42	4,054	11.06
	MCT5020	0.01	0.03	0.04	0.05	0.07	0.13	0.27		3,326	8.55
	MCHDI4030 &	<0.01	<0.01	<0.01	0.01	0.01	0.03	0.05	0.10	14,895	45.51
	MCHDI5030	<0.01	<0.01	<0.01	0.01	0.01	0.03	0.06	0.11	11,680	40.14
	MCHDI6030	<0.01	<0.01	0.01	0.01	0.02	0.04	0.07	0.14	8,659	32.70
54	MCI4010 &	0.07	0.13	0.20	0.27	0.33				1,784	2.46
	MCI6010	0.10	0.19	0.29	0.38	0.48				1,283	1.72
	MCI4015 &	0.02	0.05	0.07	0.10	0.12	0.24	0.48		3,119	6.83
	MCI6015	0.04	0.07	0.11	0.15	0.18	0.36			1,991	4.52
	MCT3320 &	0.01	0.03	0.04	0.06	0.07	0.15	0.29		3,603	11.26
	MCT5020	0.02	0.04	0.06	0.08	0.09	0.19	0.38		2,956	8.65
	MCHDI4030 &	<0.01	<0.01	0.01	0.01	0.02	0.03	0.07	0.14	13,240	48.27
	MCHDI5030	<0.01	<0.01	0.01	0.02	0.02	0.04	0.08	0.15	10,382	43.00
	MCHDI6030	<0.01	<0.01	0.01	0.02	0.02	0.05	0.09	0.19	7,697	35.00
60	MCI4010 &	0.09	0.18	0.27	0.36	0.46				1,606	2.47
	MCI6010	0.13	0.26	0.39						1,155	1.74
	MCI4015 &	0.03	0.07	0.10	0.13	0.16	0.33			2,807	6.85
	MCI6015	0.05	0.10	0.15	0.20	0.25	0.50			1,792	4.54
	MCT3320 &	0.02	0.04	0.06	0.08	0.10	0.20	0.40		3,243	11.36
	MCT5020	0.03	0.05	0.08	0.10	0.13	0.26	0.51		2,660	8.75
	MCHDI4030 &	<0.01	<0.01	0.01	0.02	0.02	0.04	0.09	0.18	11,916	50.22
	MCHDI5030	<0.01	0.01	0.02	0.02	0.03	0.05	0.10	0.20	9,344	44.86
	MCHDI6030	<0.01	0.01	0.02	0.02	0.03	0.06	0.12	0.25	6,927	36.30
66	MCI4010 &	0.12	0.24	0.36	0.48					1,460	2.48
	MCI6010	0.17	0.34	0.51						1,050	1.75
	MCI4015 &	0.04	0.09	0.13	0.17	0.22	0.44			2,552	6.87
	MCI6015	0.07	0.13	0.20	0.26	0.33				1,629	4.55
	MCT3320 &	0.03	0.05	0.08	0.10	0.13	0.26			2,948	11.46
	MCT5020	0.03	0.07	0.10	0.14	0.17	0.34			2,419	8.78
	MCHDI4030 &	<0.01	0.01	0.02	0.02	0.03	0.06	0.12	0.23	10,833	51.62
	MCHDI5030	<0.01	0.01	0.02	0.03	0.03	0.07	0.13	0.26	8,495	46.62
	MCHDI6030	<0.01	0.02	0.02	0.03	0.04	0.08	0.16	0.32	6,297	37.40

# Pultruded Industrial Grating Deflection Tables

Pultruded Industrial Grating  
Concentrated Line Load Deflection Table:



SPAN in inches	STYLE	LOAD IN lbs/ft OF WIDTH								Max Rec. Load	Apparent El x 10 <sup>6</sup> (LB-IN <sup>2</sup> )
		50	100	150	200	250	500	1000	2000		
72	MCI4010 Ⓢ	0.16	0.31	0.47						1,338	2.49
	MCI6010	0.22	0.44							962	1.76
	MCI4015 Ⓢ	0.06	0.11	0.17	0.23	0.28				2,339	6.88
	MCI6015	0.09	0.17	0.26	0.34	0.43				1,493	4.56
	MCT3320 Ⓢ	0.03	0.07	0.10	0.14	0.17	0.34			2,703	11.50
	MCT5020	0.04	0.09	0.13	0.18	0.22	0.44			2,217	8.80
	MCHDI4030 Ⓢ	<0.01	0.01	0.02	0.03	0.04	0.07	0.15	0.30	9,930	52.62
	MCHDI5030	<0.01	0.02	0.02	0.03	0.04	0.08	0.17	0.33	7,787	47.00
MCHDI6030	0.01	0.02	0.03	0.04	0.05	0.10	0.20	0.41	5,773	38.30	
84	MCHDI4030 Ⓢ	0.01	0.02	0.03	0.05	0.06	0.11	0.23	0.46	8,511	54.11
	MCHDI5030	0.01	0.03	0.04	0.05	0.06	0.13	0.26	0.51	6,674	48.40
	MCHDI6030	0.02	0.03	0.05	0.06	0.08	0.16	0.31		4,948	39.50
96	MCHDI4030 Ⓢ	0.02	0.03	0.05	0.07	0.08	0.17	0.33		7,448	55.32
	MCHDI5030	0.02	0.04	0.06	0.08	0.09	0.19	0.38		5,840	49.10
	MCHDI6030	0.02	0.05	0.07	0.09	0.11	0.23	0.46		4,329	40.20

# Grating Hold Down Clips

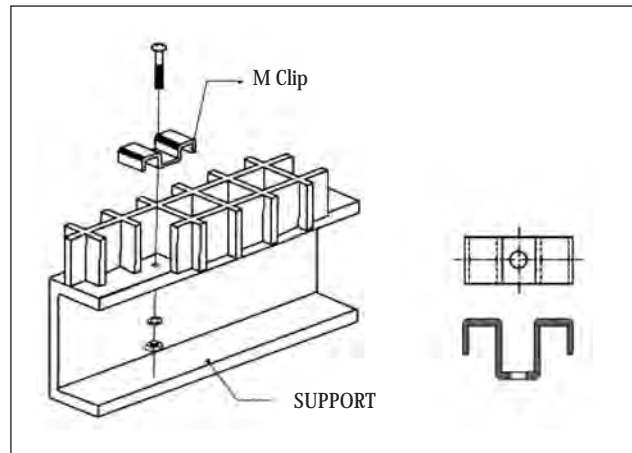


## Molded & Pultruded Grating Clips

Mona Composites supplies a number of different types of 316SS clips to attach gratings to supporting members. Although the clips are illustrated here with molded grating products, similar clips are available for our pultruded grating as well. Contact Mona Composites for more information.

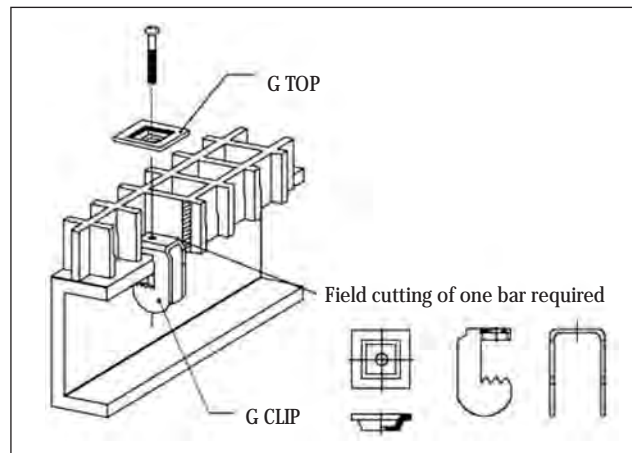
## M Clips

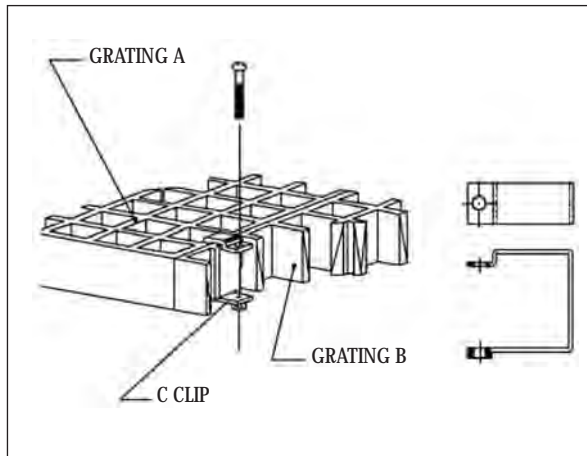
"M" Clips clamp two load bars to the supporting member. This provides excellent hold down capability. "M" Clips are recommended for stair treads and most molded and pultruded gratings.



## G Clips

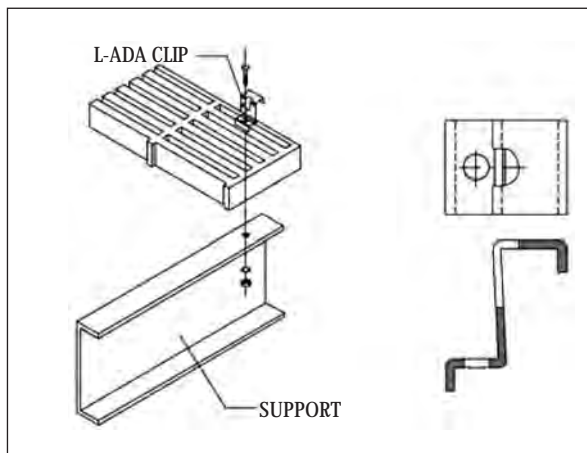
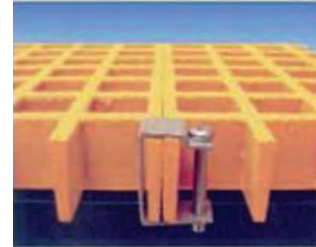
"G" Clips are used to attach grating to any structural support without drilling for bolts. This not only provides excellent bidirectional holding capability for molded square mesh grating but also reduces installation labor cost.





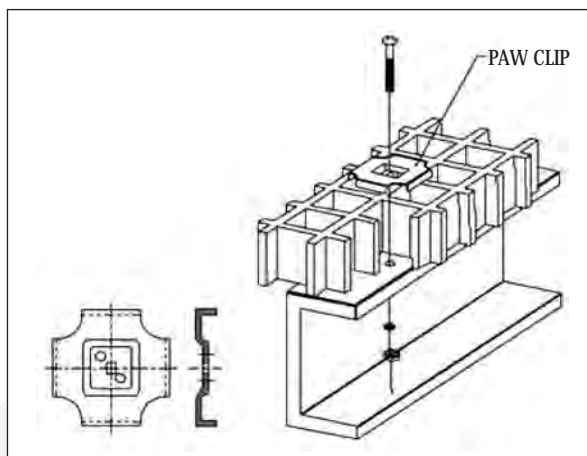
## C Clips

"C" Clips are designed to attach two panels of molded gratings together. This helps minimize differential deflections when joints fall between supports.



## L Clips

This lighter duty clip is used to hold one load bar to the support for lighter loads. It is available for both molded and pultruded gratings.



## PAW Clips

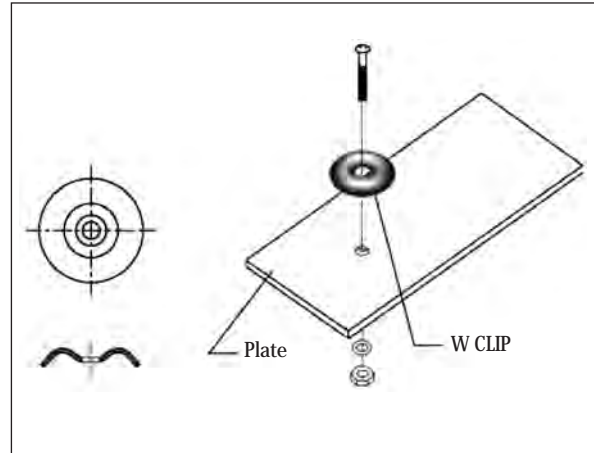
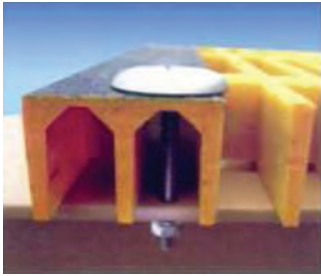
Mona Composites "PAW" Clip is used to maximize the hold down capacity of square mesh molded grating. These clips clamp 4 load bars to the support, offering excellent bidirectional resistance to loads from seismic or other lateral forces.



# Molded & Pultruded Grating Clips

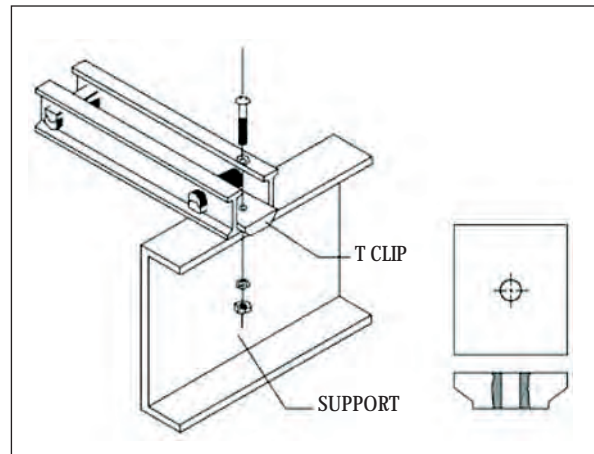
## W Clips

"W" Clips are used to attach FRP plates, COVERED Molded or pultruded grating pieces to support members.



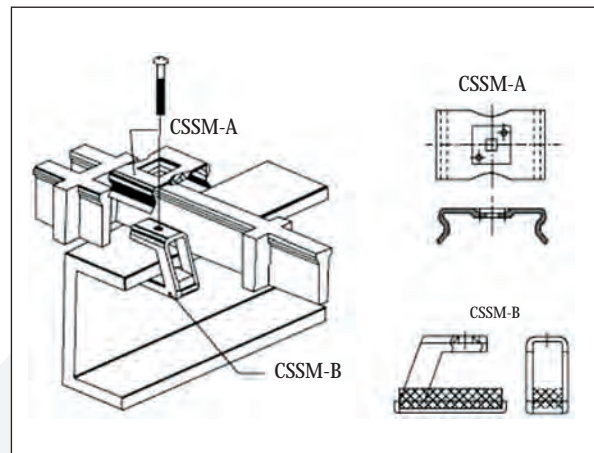
## T Clips

"T" Clips are utilized when clips have to be below the pultruded grating surface. These clips should be specified in pairs as shown.



## CSSM Clips - Plan A

Developed by our design team, the CSSM system is ideal for applications where vibration is an issue. This is a modified "G" Clip where jaw teeth that can damage steel coatings are replaced with a hard Neoprene Pad. Tightening the clip builds in a "spring" that minimizes loosening.





# Chemical Resistance Chart

CHEMICAL ENVIRONMENT	% CONCENTRATION	TEMPERATURE	POLYESTER	ISOPHTHALIC	VINYLESTER
Acetic Acid	50	MAX	NR	NR	R
Acetone	100	75	NR	NR	NR
Alcohols	100	120	NR	NR	NR
Alum	ALL	MAX	R	NR	120
Aluminum Chloride	ALL	MAX	NR	NR	120
Aluminum Fluoride	20	75	SS	SS	R
Ammonium Hydroxide	30	75	NR	NR	R
Ammonium Salts-Neutral	ALL	120	R	R	R
Ammonium Salts-Aggressive	ALL	75	SSI	SSI	SSF
Aromatic Solvents	ALL	75	NR	NR	TEST
Barium Salts	ALL	MAX	R	R	R
Benzene	100	140	NR	SSI	SSI
Black Liquor (Pulp Mill)	ALL	MAX	NR	SSI	R
Bleach Liquor (Pulp Mill)	ALL	MAX	NR	SSI	R
Calcium Hydroxide	25	MAX	SSI	SSF	R
Calcium Hypochlorite	ALL	MAX	NR	SSI	R
Calcium Salts	ALL	MAX	R	R	R
Carbon Tetrachloride	100	75	NR	SSI	R
Chlorinated Hydrocarbons	100	75	TEST	TEST	TEST
Chlorine Dioxide	SAT	140	NR	NR	R
Chlorine Water	SAT	120	TEST	SSI	R
Chlorine, Wet	SAT	MAX	NR	NR	R
Chlorobenzene	100	75	NR	NR	SSF
Chlorobenzene	ALL	Up to 100	NR	NR	R
Chloroform	100	75	NR	NR	NR
Chromic Acid	50	140	NR	SSF	SSF
Citric Acid	ALL	MAX	R	R	R
Copper Cyanide Plating	ALL	125	SSI	SSF	R
Copper Salts	ALL	MAX	R	R	R
Crude Oil (Sweet or Sour)	ALL	MAX	R	R	R
Dichlorobenzene	100	75	NR	NR	NR
Ethers		75	NR	NR	NR
Ferric Chloride	100	MAX	R	R	R
Ferric Salts	ALL	MAX	R	R	R
Fluoride Salts+HCl	ALL	75	NR	SSF	R
Fluosilicic Acid	10	75	SSF	SSF	R
Formaldehyde	37	150	SSI	SSI	R
Formic Acid	25	100	SSI	SSF	R
Fuel (Diesel, Jet, Gasoline)	ALL	100	R	R	R
Glycerine	100	MAX	R	R	R
Green Liquor (Pulp Mill)	ALL	MAX	NR	NR	R
Hydrobromic Acid	48	MAX	NR	SSF	SSF
Hydrochloric Acid	10	MAX	NR	NR	R
Hydrochloric Acid	30	MAX	NR	NR	R
Hydrochloric Acid (concentrated)	ALL	Up to 180	NR	NR	SSI
Hydrocyanic Acid	ALL	MAX	NR	NR	R
Hydrofluoric Acid	20	75	NR	NR	SSF
Hydrogen Peroxide	30	75	NR	R	R
Lactic Acid	100	MAX	NR	R	R
Lime Slurry	SAT	MAX	R	R	R
Lithium Chloride	AT	MAX	NR	NR	NR
Lithium Salts	ALL	MAX	R	R	R
Magnesium Salts	ALL	MAX	R	R	R
Maleic Acid	100	MAX	NR	SSF	R
Mercury Chloride	100	MAX	R	R	R
Nickel Salts	ALL	MAX	R	R	R
Nitric Acid	20	120	SSI	SSF	R
Nitric Acid	35	100	NR	NR	R
Nitric Acid	40	Ambient	NR	NR	SSI
Nitric, Hydrofluoric	20:2	75	NR	NR	SSI
Nitrous Acid	10	75	R	R	R
Ozone for Sewage Treatment		100	R	R	R
Phenol	10	75	NR	NR	R
Phenol	88	Ambient	NR	NR	SSF
Phosphoric Acid	85	MAX	SSF	R	R
Phosphoric Acid, Super	115	MAX	TEST	SSI	R
Potassium Hydroxide	10	120	NR	SSI	R
Potassium Salts	ALL	MAX	R	R	R
Silver Nitrate	100	MAX	R	R	R
Sodium Cyanide	ALL	75	R	R	R
Sodium Hydroxide	50	MAX	NR	NR	120
Sodium Hydroxide	10	MAX	NR	NR	120
Sodium Hypochlorite (Stable)	10	100	SSI	SSF	R
Sodium Salts-Neutral	ALL	MAX	R	R	R
Sodium Salts-Aggressive	ALL	75	TEST	SSI	SSF
Sulfur Dioxide	SAT	MAX	NR	NR	R
Sulfuric Acid	25	MAX	NR	R	R
Sulfuric Acid	50	MAX	NR	NR	NR
Sulfuric Acid	75	100	NR	SSI	R
Toluene	100	120	NR	SSI	SSF
Trichloroethane1,1,1	ALL	75	NR	SSI	SSF
Trisodium Phosphate	50	MAX	SSI	SSI	R
Water (Fresh, Salt, Moderate D.I.)	100	MAX	R	R	R
Wet Chlorine/Hydrochloric Acid	10-20	Up to 350	NR	NR	SSF
White Liquor (Pulp Mill)	ALL	MAX	NR	NR	R
Zinc Chloride Plating	ALL	75	NR	SSF	R
Zinc Salts	100	MAX	R	R	R

NR = NOT RESISTANT

R = RESISTANT

SSI = SPLASHES & SPILLS INFREQUENT

SSF = SPLASHES & SPILLS FREQUENT

TEST = TEST ON PRODUCT



3936A Dunvale Road,

Houston, TX 77063

Tel : 832-831-9828

Fax : 832-831-9829

Cell : 281-813-9487

Email : [sales@monacomposites.com](mailto:sales@monacomposites.com)

Web : [www.monacomposites.com](http://www.monacomposites.com)