



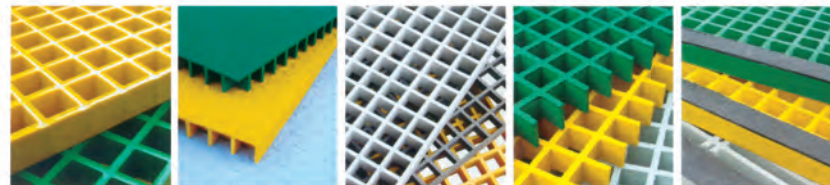
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Nov 2011 Version

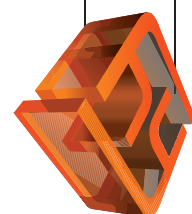


ISO 9001:2008 CERTIFIED
國際品質管理體系標準認可

玻璃纖維創新
環保產品系列

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YEUNG'S
fiberglass
楊氏玻璃纖維公司 est. 1983



DURA®

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top-quality **GRP** products manufactured to
the highest standards and designed to meet
the most demanding specifications

Technical Data Booklet

技術數據手冊

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Excellent Alternative to Stainless Steel
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客戶服務熱線

8222 8882

DSD & WSD Approved Type
此產品已獲香港渠務署
及香港水務署認可





TECHNICAL SPECIFICATIONS

Resin System



Resin type	Resin base	Description	Corrosion resistance	Flame spread Rating BS 476 Part 7	Colors available
VEFR-25	Vinyl ester	Supirior corrosion resistance and retardant	Excellent	Class 1, 25 or less	Dark gray, orange
VEFR-10	Vinyl ester	Supirior corrosion resistance and enhanced retardant	Excellent	Class 1, 10 or less	Dark gray
IFR-25	Vinyl ester	Industrial grade corrosion resistance and fire retardant	Very good	Class 1, 25 or less	Dark gray, Green
IFR-10	Isophthalic polyester	Industrial grade corrosion resistance and extra fire retardant	Very good	Class 1, 10 or less	custom
IFGR-30	Isophthalic polyester	Food grade corrosion resistance and fire retardant	Very good	Class 1, 25 or less	Light gray, light green
OFR-25	Ortho	Moderate corrosion resistance and fire retardant	Moderate	Class 1, 25 or less	Green, yellow light gray, dark gray
MP-5	Phenolic resin	Low smoke and superior fire resistance	Very good	Class 1, 5 or less	Reddish-brown, phenolic painting of the grating can be performed to obtain a gray or red finish
O-CR	Ortho	Moderate corrosion resistance	Moderate	No	Green, yellow light gray, dark gray

Molded gratings

DuraGrat Molded Gratings

DuraGrat Molded grating is manufactured in an open, heated mold system. Continuous E-glass roving's are placed in the mold in alternating layers and completely wetted out with resin. This continuous process produces an integral, one piece construction which provides excellent corrosion resistance as well as bi-directional strength. There are a number of different molds available resulting in a extensive range of panel sizes, thickness and mesh patterns.

Industries

- ☐ Chemical plant and metal finishing;
- ☐ Construction engineering, traffic and transportation
- ☐ Petrochemical engineering, ocean survey, water engineering
- ☐ Food and beverage plants
- ☐ Textile printing and dyeing and electronic industry

Functions :

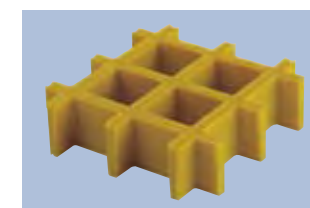
- ☐ Anti-slip floor, stair tread, foot bridge
- ☐ Operation platform, trench cover
- ☐ Security and safety fence, handrail
- ☐ Off-shore oil rig, moor shipyard, shipping deck, ceiling
- ☐ Ramp ladder, scaffold, railway footpath
- ☐ Decorative grid, man-made fountain pool grid
- ☐ Non-conductive and non-magnetic

Advantages :

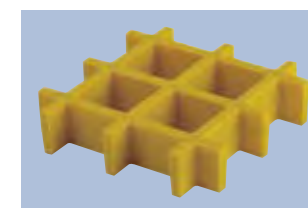
- ☐ Anti-fire
- ☐ Anti-corrosion and anti-aging
- ☐ Anti-slippery
- ☐ Light but high loaded strength
- ☐ Long service life and maintenance free
- ☐ Non-conduction or magnetic
- ☐ Easy installation and rich colors
- ☐ various sizes and colors available



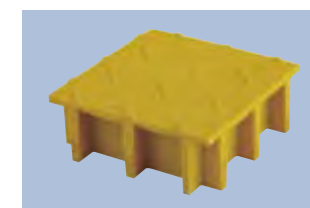
Surfaces



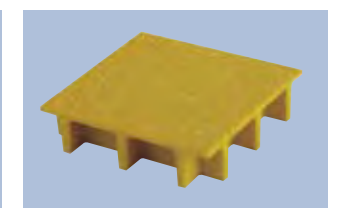
Concave Surface



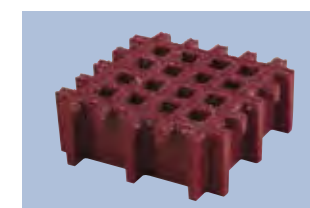
Smooth Surface



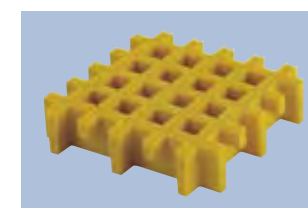
Diamond Top Cover



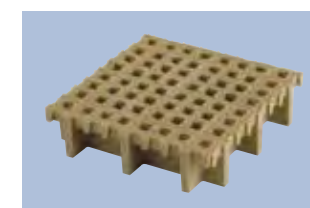
Gritted top Cover



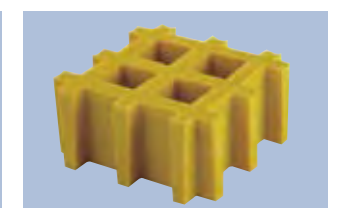
Gritted Surface



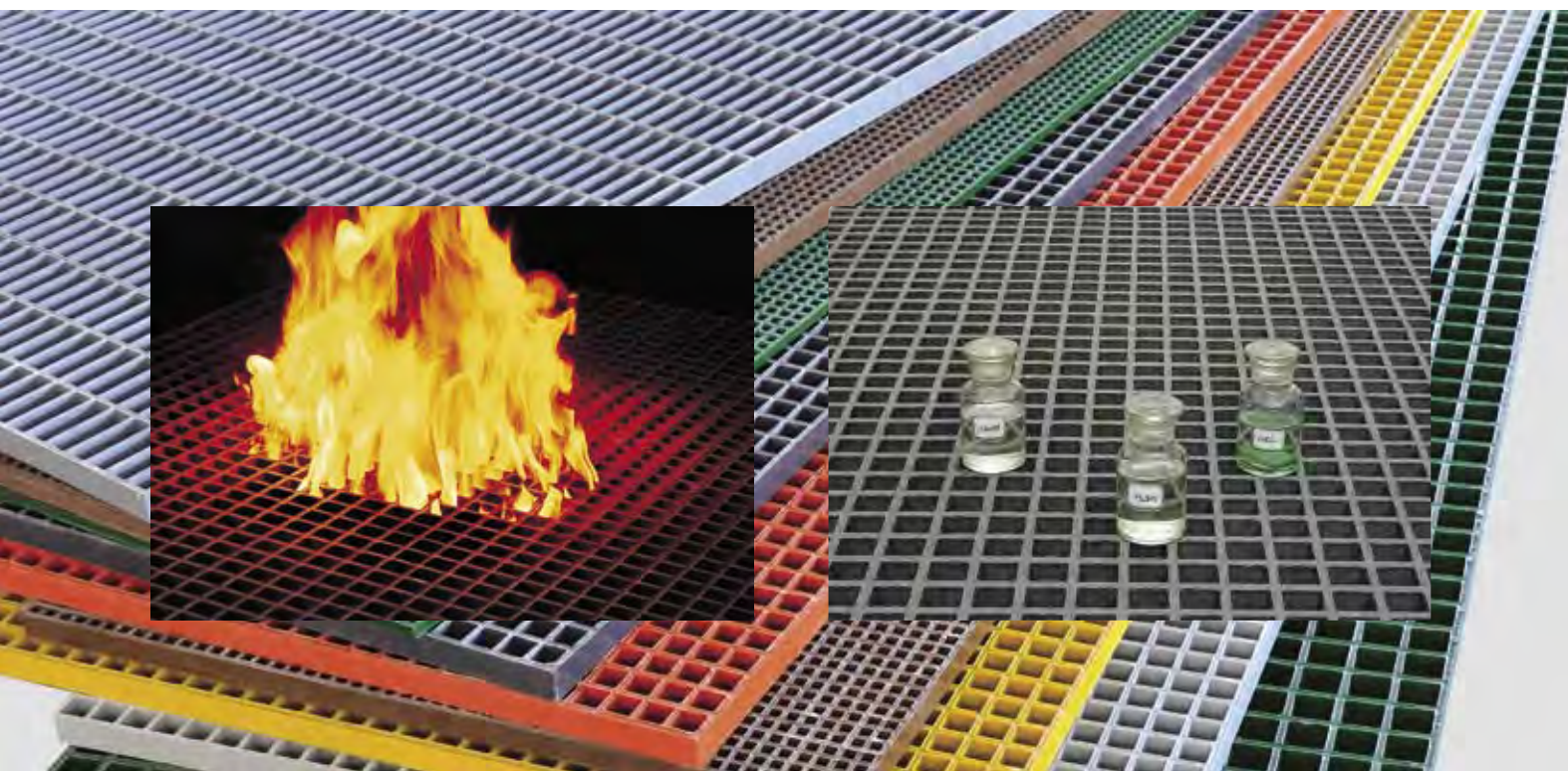
Mini mesh Surface



Micro mesh surface

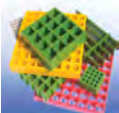


Heavy duty





DuraGrat^(R) Moulded Grating



38mm × 38mm mesh

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	13	6.0/5.0	38×38	1220×3660,1220×4000,1220×2440 , 915×3050,1268×4010	6.0	78
	14	6.0/5.0	38×38	1220×3660,1220×4000,1220×2440 , 915×3050,1268×4010	6.5	78
	20	6.0/5.0	38×38	1220×3660,1220×4000, 1524×4010,997×3012	9.8	65
	25	6.5/5.0	38×38	1220×3660,1220×4010,1524×4010 , 915×3050,1524×4000,997×3012	12.3	68
	30	6.5/5.0	38×38	1220×3660,1220×4010,1524×4026 , 915×3050,1524×4000	14.6	68
	38	7.0/5.0	38×38	1220×3660,1220×4000,1220×2440,9 15×3050,1524×4000,1524×3050, 1000×4000	19.5	68
	50	11.0/9.0 heavy duty	38×38	1220×4010,1220×3660, 1220×2440, 915×3050	42	56
	60	10.5/9.0 heavy duty	38×38	1220×4010,1220×3660,1220×2440, 1232×4014, 915×3050	50.4	54
	70	11.5/9.0 heavy duty	38×38	1230×4010	58.8	49

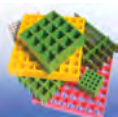
40mm × 40mm mesh

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	25	7.0/5.0	40×40	1007×3007,1007×4047,1527×4047	12.3	67
	30	7.0/5.0	40×40	1527×4047,1007×3007,1007×4047	14.6	67
	38	7.0/5.0	40×40	1527×4047,1247×4047,1007×3007, 1007×4047	19.2	67
	40	7.0/5.0	40×40	1247×4047,1007×3007,1007×4047	19.5	67

50mm × 50mm mesh

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	15	6.0/5.0	50×50	1220×4000,1220×3660,1220×2440	5.9	82
	40	6.8/5.0	50×50	1778×4531,1225×4531	18.2	80
	25	7.0/6.0	50×50	1220×3660,1220×2440,915×3050	11.5	78
	50	8.0/6.0	50×50	1524×4000,1220×3660, 1220×2440,915×3050	23.7	78
	63	8.3/6.0	50×50	1225×4000,1225×3660,1225×2440, 915×3050	28.8	78

Thickness-T



79mm × 79mm mesh

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	23	6.5/5.0	79×79	405×3569	5.7	80

83mm × 83mm mesh

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	25	7.0/5.0	83×83	1007×4007,1007×3007	5.8	84
	38	7.0/5.0	83×83	1007×4007,1007×3007	9.5	84
	40	7.0/5.0	83×83	1007×4007,1007×3007	10.7	84

12.7mm × 12.7mm / 38mm×38mm micro mesh

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	30	7.5&4.5/6.0	12.7×12.7 38×38	1220×3660,1220×2440, 915×3050	22	30

13mm × 13mm / 40mm×40 mm micro mesh

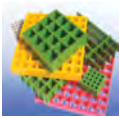
Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	25	6.5/4.5/5.0	13×13 40×40	1247×4047,1007×3007, 1007×4047	17.8	30
	30	6.5/4.5/5.0	13×13 40×40	1527×4047,1247×4047, 1007×3007,1007×4047	18.8	30
	38	7.0/5.0	13×13 40×40	1527×4047,1247×4047, 1007×3007,1007×4047	23.8	30

Thickness-T



DuraGrat[®] Moulded Grating

19mm × 19mm/ 38mm × 38mm mini mesh



Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/ m ²)	Open Rate (%)
	25	6.5/5.0	19×19 38×38	1220×3660,1220×2440,915×3050, 1220×4000,1268×4007	16.8	30
	30	6.5/5.0	19×19 38×38	1220×3660,1220×2440,915×3050, 1220×4000	19.1	30
	38	6.5/5.0	19×19 38×38	1220×3660,1220×2440,915×3050, 1220×4000	23.5	30

20mm × 20mm / 40mm × 40mm mini mesh

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/ m ²)	Open Rate (%)
	14	6.5/5.0	20×20 40×40	1247×4047,1007×3007	10.3	42
	22	6.5/5.0	20×20 40×40	1247×4047,1007×3007, 1527×4047	14.5	42
	25	6.5/5.0	20×20 40×40	1247×4047	16.8	
	30	7.0/5.0	20×20 40×40	1007×4047,1007×3007,1247×4047	18.3	42
	40	7.0/5.0	20×20 40×40	1007×4047,1007×3007,1247×4047	23.7	42

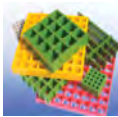
25mm × 25mm / 50mm × 50mm mini mesh

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/ m ²)	Open Rate (%)
	50	8.0/6.0	25×25 50×50	1530×4020	28.5	55

26mm × 26 / 52mm × 52mm mini mesh

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/ m ²)	Open Rate (%)
	30	7.0/6.0	26×26 52×52	1530×4000	15.3	60
	38	6.0/5.0	26×26 52×52	1150×4011	19.5	60

Thickness-*T*



25mm × 50mm

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/ m ²)	Open Rate (%)
	38	11.0/9.0 heavy duty	25×50	1220×3660	30.7	48
	50	12.0/9.0 heavy duty	25×50	1220×3660,1220×1835	41.8	48

25mm × 100mm

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/ m ²)	Open Rate (%)
	25	7.0/5.5	25×100	1007×3007,1007×4007	13.0	67
	25	7.0/5.0	25×100	1220×3660,915×3050	13.83	67
	25	9.5/8.0	25×100	1220×3660,1220×2440,915×3050	19.5	52
	30	7.0/5.5	25×100	1007×3007	15.6	67
	38	8.0/6.0	25×100	1220×3660	22.5	62
	38p	15.0/5.0	25×100	1220×3660	21	62

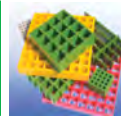
38mm × 100mm

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/ m ²)	Open Rate (%)
	38	8.0/6.0	38×100	1220×3660,1220×2440,915×3050	16.4	65
	50p	8.0/5.0	38×100	1220×3660	15.3	62

Thickness-*T*

DuraGrat^(R) Moulded Grating

25mm × 152mm



Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	38	8.0/6.5	25×152	1220×3660, 1220×2440, 915×3050	22.5	63

35mm × 100mm

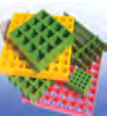
Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	38	8.0/6.5	35×100	1507×4300, 2400×3000	2	63

38mm × 152mm

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	38	8.0/6.0	38×152	1220×3660, 1220×2440, 915×3050	15.92	67
	38 (T-shape)	15.0/8.0	38×152	585×3660, 585×4100	18.6	62

60mm × 220mm

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	40	6.3/5.0	60×220	1788×2238	8.8	67



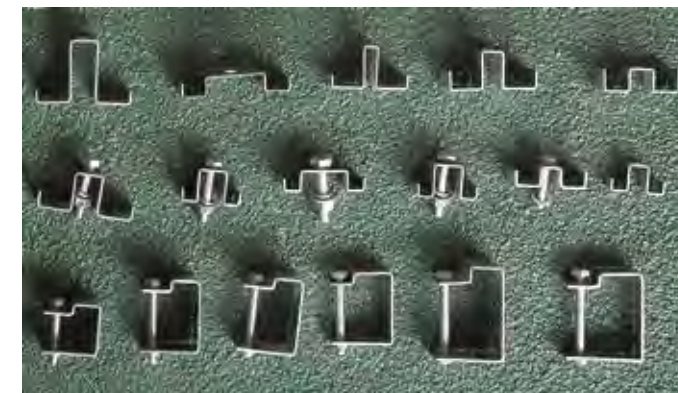
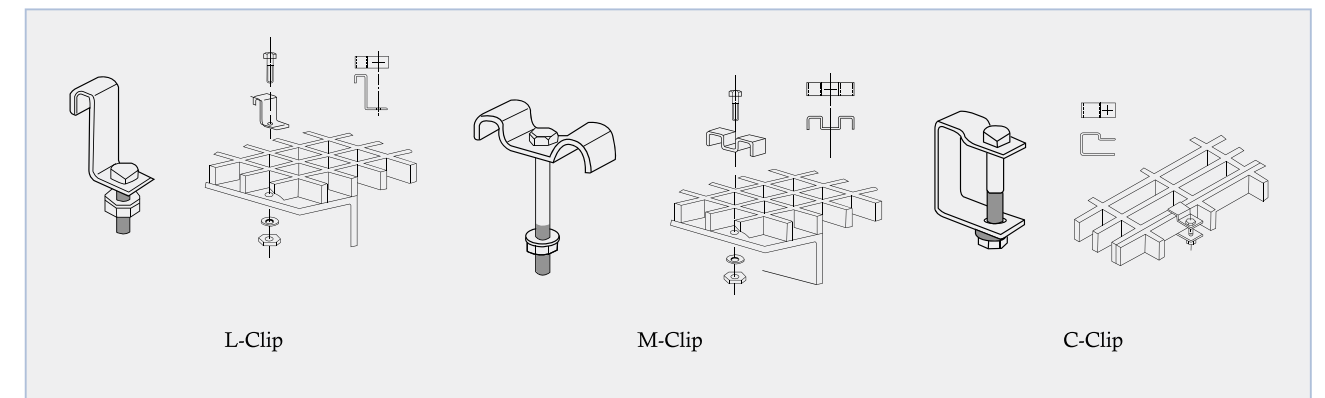
25mm × 152mm

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	38stair treads	7.0/5.0	25×152	565×3050	23.1	62

38mm × 152mm

Legend	Thickness (mm)	Bar thickness (Top/Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m ²)	Open Rate (%)
	38 stair treads	7.0/5.0	38×152	580×3660, 610×3660	17	65

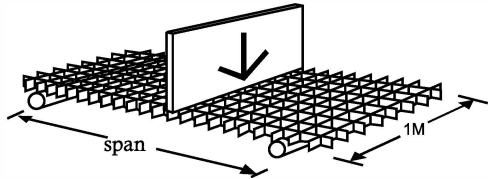
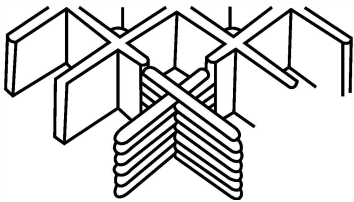
Installation Fixing for Pultruded Gratings





DuraGrat^(R) Moulded Grating

Load and Deflection Tables



Concentrated line load-deflection in mm

38×38×14

Deflection Span (mm)	Kg/m					Break Point
	75	150	300	450	750	
300	0.178	0.336	0.711	1.067	1.778	3129
450	0.553	1.524	2.311	4.826	5.689	2086
600	1.245	1.007	5.334	3.378	---	1565
750	1.956	3.912	8.001	---	---	1252
900	3.734	7.468	---	---	---	1043

	Bar thickness (Top /Bottom) 6.0/5.0 Distance between centers of bearing bars 38 Open Area 65% Weight per square meter 6.9 kg/m ²
Standard panel sizes:1220x4000,1220x3660,1524x4010, 997x3012 Both directions	

38×38×25

Deflection Span (mm)	Kg/m						Break Point
	75	150	300	450	600	750	
450	0.559	1.146	2.159	3.073	4.115	4.75	3910
600	0.864	1.702	3.505	5.156	6.706	8.179	2924
900	2.896	5.918	12.116	18.44	---	---	1948
1200	5.715	111.633	---	---	---	---	1461

	Bar thickness (Top /Bottom) 6.4/5.0 Distance between centers of bearing bars 38 Open Area 68% Weight per square meter 12.3 kg/m ²
Standard panel sizes: 1220x4010,1220x3660,1524x4010, 997x3012 915x3050 Both directions	

38×38×30

Deflection Span (mm)	Kg/m						Break Point
	75	150	300	450	750	1500	
300	<0.254	<0.254	0.254	0.508	0.762	1.524	9923.4
450	0.254	0.508	1.016	1.524	2.54	---	4827.6
600	0.508	1.27	2.286	3.556	5.842	---	4112.4
750	1.27	2.54	4.826	7.366	12.446	---	3173.7
900	1.778	3.81	7.62	11.43	---	---	2637.3

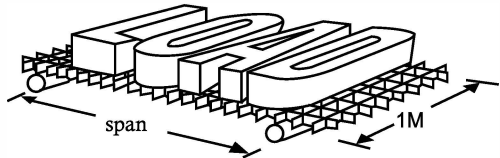
	Bar thickness (Top /Bottom) 6.5/5.0 Distance between centers of bearing bars 38 Open Area 68% Weight per square meter 14.6 kg/m ²
Standard panel sizes: 1220x4010,1220x3660,1524x4000,1524x4026 + 915x3050 Both directions	

38×38×38

Deflection Span (mm)	Kg/m						Break Point
	75	150	300	450	600	750	
300	0.279	0.356	0.483	0.61	0.762	0.889	17116
600	0.356	0.66	1.245	1.85	2.464	3.073	8718
900	0.864	1.803	3.683	5.563	7.417	9.296	5817
1200	2.261	4.749	9.677	14.63	19.583	---	3755
900	1.778	3.81	7.62	11.43	---	---	2637.3

	Bar thickness (Top /Bottom) 7.0/5.0 Distance between centers of bearing bars 38 Open Area 68% Weight per square meter 19.5 kg/m ²
Standard panel sizes:1220x4000,1220x3660,1220x2440,915x3050, 1524x3050,1524x4000 +1000x4000 Both directions	

DuraGrat^(R) Moulded Grating



Uniformed load-deflection in mm

38×38×20

Deflection Span (mm)	Kg/m						Break Point
	350	500	750	1000	1500	2500	
300	<0.254	0.254	0.508	0.508	1.016	1.524	29280
450	1.016	1.524	2.286	3.048	4.572	7.62	12980.8
600	3.084	4.572	7.112	9.398	---	---	7320
750	5.842	8.89	---	---	---	---	4084.8
900	---	---	---	---	---	---	3226.8

38×38×25

Deflection Span (mm)	Kg/m						Break Point
	240	480	980	1450	2450	3650	4880
450	0.66	1.092	1.93	2.769	4.47	6.579	---
600	1.118	2.108	4.14	6.172	10.211	15.265	---
750	2.667	5.387	10.82	16.28	---	---	---
900	5.537	11.176	21.717	---	---	---	---

38×38×30

Deflection Span (mm)	Kg/m						Break Point
	350	500	750	1000	1500	2500	
300	<0.254	<0.254	<0.254	<0.254	0.254	0.508	32500.8
450	0.254	0.508	0.762	1.016	1.524	2.286	21661.2
600	1.06	1.524	2.286	2.794	4.318	7.366	12980.8
750	2.54	3.81	5.842	7.62	11.684	---	8296
900	4.572	7.112	10.668	---	---	---	5758.4

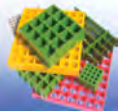
38×38×38

Deflection Span (mm)	Kg/m						Break Point
	240	480	980	1450	2450	3650	4880
300	0.254	0.305	0.381	0.457	0.635	0.838	---
600	0.432	0.813	1.549	2.311	3.8354	5.74	---
900	1.702	3.454	6.959	10.465	17.475	---	---
1200	5.969	12.167	24.511	---	---	---	---
900	---	---	---	---	---	---	---

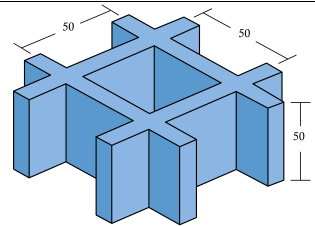


DuraGrat^(R) Moulded Grating

Load and Deflection Tables



50×50×50

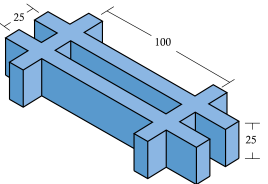


Bar thickness (Top /Bottom)
8.0/6.0
Distance between centers of
bearing bars
50
Open Area
78%
Weight per square meter
23.7 kg/m²

Standard panel sizes:1524x4000,1220x3660 Both directions

Deflection Span (mm)	Kg/m						Break Point
	75	150	300	450	600	750	
300	0.279	0.305	0.406	0.483	0.635	1.041	21727
600	0.356	0.508	0.813	1.128	1.753	3.327	11713
900	0.508	1.118	2.235	3.2	5.156	10.058	7780
1200	0.914	1.93	3.937	5.918	9.957	---	5834
900	1.778	3.81	7.62	11.43	---	---	2637.3

25×100×25

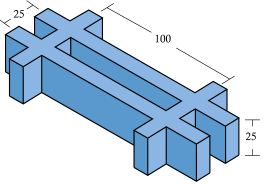


Bar thickness (Top /Bottom)
7.0/5.5
Distance between centers of
bearing bars
25
Open Area
67%
Weight per square meter
13.0 kg/m²

Standard panel sizes:1007x3007 ·1007x4007
Width direction

Deflection Span (mm)	Kg/m						Break Point
	75	150	300	450	600	750	
300	0.33	0.483	0.737	0.991	1.27	1.52	9442
600	0.864	1.727	3.454	5.182	6.909	8.636	4305
750	1.397	2.718	5.105	7.163	9.55	11.938	3589
900	2.413	4.724	8.814	12.369	16.51	20.625	3216
900	1.778	3.81	7.62	11.43	---	---	2637.3

25×100×25

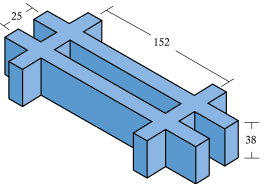


Bar thickness (Top /Bottom)
9.5/8.0
Distance between centers of
bearing bars
25
Open Area
52%
Weight per square meter
19.5 kg/m²

Standard panel sizes: 1220x3660 ·1220x2440 915x3050
Width direction

Deflection Span (mm)	Kg/m						Break Point
	75	150	300	450	750	1500	
300	<0.254	0.254	0.762	1.016	1.27	1.524	10057.5
450	0.508	0.762	1.778	2.54	3.302	4.318	7263.75
600	0.762	1.778	3.556	5.08	6.858	---	5773.75
750	1.524	3.048	6.096	9.144	11.938	---	4842.5
900	2.286	4.826	9.652	---	---	---	4172
1050	3.556	7.112	---	---	---	---	3687.75
1200	5.08	10.16	---	---	---	---	3501.50
900	1.778	3.81	7.62	11.43	---	---	2637.3

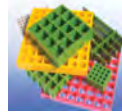
38×152×38



Bar thickness (Top /Bottom)
8.0/6.0
Distance between centers of
bearing bars
38
Open Area
67%
Weight per square meter
15.92 kg/m²

Standard panel sizes:1220x3660 ·1220x2440 915x3050
Length direction,Width direction

Deflection Span (mm)	Kg/m						Break Point
	75	150	300	450	600	750	
300	<0.254	<0.254	0.254	0.508	0.508	0.762	12627.75
450	<0.254	0.254	0.762	1.016	1.524	1.778	9945.75
600	0.254	0.762	1.524	2.286	3.046	3.81	8232.85
750	0.762	1.27	2.794	4.064	5.334	6.604	7040.25
900	1.016	2.286	4.318	6.64	8.636	10.92	6146.25
1050	1.524	3.302	6.604	9.906	---	---	5438.5
1200	2.286	4.826	9.652	---	---	---	5140.5
900	1.778	3.81	7.62	11.43	---	---	2637.3



50×50×50

Deflection Span (mm)	Kg/m						
	240	480	980	1450	2450	3650	4880
300	0.254	0.279	0.33	0.381	0.483	0.737	---
600	0.381	0.584	0.965	1.372	2.134	4.115	---
900	1.194	2.108	3.937	5.766	9.449	18.593	---
1200	2.413	4.928	9.957	14.961	---	---	---
900	---	---	---	---	---	---	---

25×100×25

Deflection Span (mm)	Kg/m						
	240	480	980	1450	2450	3650	4880
300	0.279	0.381	0.533	0.711	1.041	---	1.905
600	0.914	1.854	3.683	5.537	9.22	---	18.466
900	3.632	6.6	12.573	18.542	---	---	---
1050	8.007	14.884	---	---	---	---	---
900	---	---	---	---	---	---	---

25×100×25

Deflection Span (mm)	Kg/m						Break Point
	250	350	300	750	1000	1500	
300	<0.254	<0.254	<0.254	0.254	0.508	0.508	32940
450	0.508	0.508	0.762	1.27	1.524	2.286	18910
600	1.016	1.27	2.032	3.302	4.318	6.35	15860
750	2.286	3.048	4.572	7.112	9.398	---	12688
900	4.572	5.842	8.89	---	---	---	9110.96
1050	7.874	10.16	---	---	---	---	6900.32
1200	12.7	---	---	---	---	---	5734
900	4.572	7.112	10.668	---	---	---	5758.4

38×152×38

Deflection Span (mm)	Kg/m						Break Point
	350	450	750	1000	1500	2500	
300	<0.254	<0.254	<0.254	0.254	0.254	0.508	41358
450	<0.254	0.254	0.508	0.762	1.016	1.778	26962
600	0.508	1.016	1.27	1.778	2.794	4.572	21716
750	1.027	2.032	3.048	4.064	6.35	---	18446.4
900	2.54	4.064	6.096	8.128	12.192	---	13420
1050	4.572	7.112	10.668	---	---	---	10179.68
1200	7.874	11.938	---	---	---	---	8418
900	4.572	7.112	10.668	---	---	---	5758.4



Chemical resistance chart of molded gratings



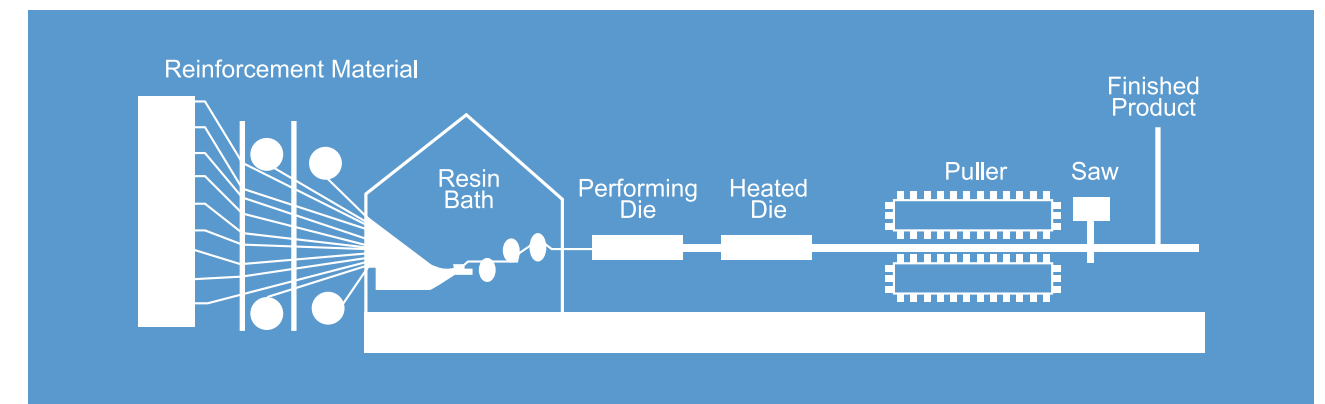
Chemical	Max. Oper. Temp			
	%Conc.	Type 'vinyl'	Type 'Iso'	Type 'Ortho'
Hydrochloric acid	30	82	65	N/R
Nitric acid	35	38	N/R	N/R
Sulphuric acid	25	82	65	N/R
Hydrofluoric acid	10	24	N/R	N/R
Lactic acid	100	82	65	60
Hypochlorous acid	SAT	60	N/R	N/R
Citric acid	ALL	49	N/R	N/R
Potassium hydroxide	10	49	N/R	N/R
Sodium hydroxide	10	82	N/R	N/R
Calcium hydroxide	25	82	65	N/R
Calcium hypochloride	25	82	65	N/R
Ferric chloride	100	82	65	60
Aluminium chloride	ALL	82	65	60
Mercuric chloride	100	82	65	60
Silver nitrate	100	82	65	60
Sodium salt	ALL	24	N/R	N/R
Zinc chloride	ALL	24	24	N/R
Acetone	100	124	N/R	N/R
Chloroform	100	N/R	N/R	N/R
Fuel	All	38	38	38
Nantokite	ALL	82	65	60
Phenols	10	24	N/R	N/R
Ozone	ALL	38	38	38
Bleaching liquid	ALL	82	N/R	N/R
Ammonium hydroxide	30	24	N/R	N/R
Ammonium salt	ALL	24	N/R	N/R
Black sewage	ALL	82	N/R	N/R
Cupric oxide	ALL	52	52	N/R
Glycol	100	82	65	60
Sulfur dioxide	SAT	82	65	60
Sodium phosphate	50	82	N/R	N/R
Water	100	82	65	60
Alum	ALL	82	65	60
Chlorine water	SAT	49	N/R	N/R

ALL-concentrations; SAT-saturated solution; N/R- not recommended; ...-no information available

DuraGrat^(R) Pultruded Gratings

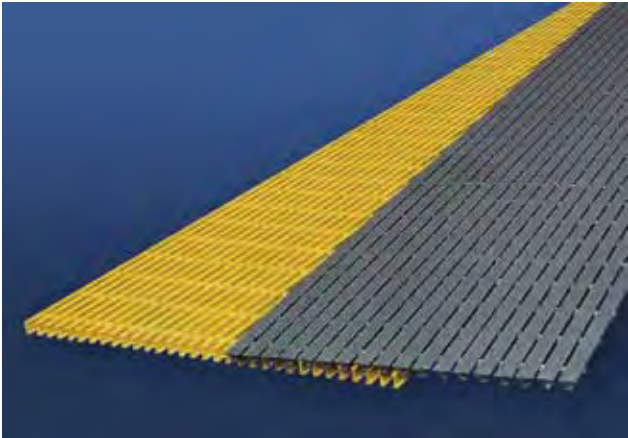


DuraGrat pultruded gratings are panels with open space, assembled, through specially designed process, with “ I ” , “ T ” and “ HL ” shaped bearing bars and interlocked with solid rods or tubes , which are all pultruded



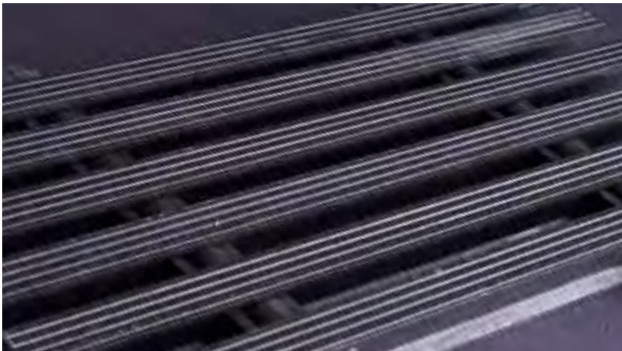
DuraGrat pultruded grating is light-weight, strong, anti-fire chemical and UV resistant, and reduces costly maintenance. Aulland pultruded grating is well suited for highly corrosive environments and offers extended life, eliminating periodic maintenance and extra cost, which is a good alternative compared to steel gratings.





- Advantages of Phenolic grating :
- High anti-fire
 - High anti-corrosion and anti-aging
 - High anti-slippery
 - Light but high loaded strength
 - Long service life and maintenance free
 - Non-conduction or magnetic
 - Easy installation and rich colors
 - Various sizes and colors available

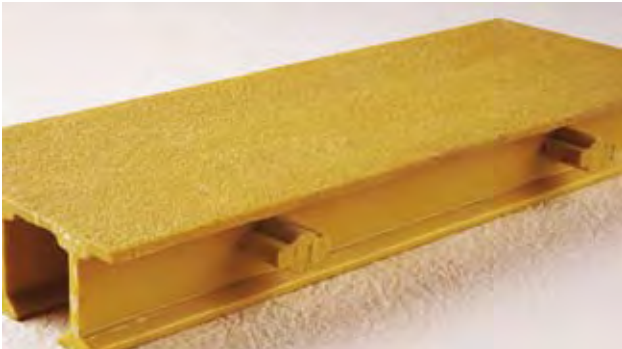
Surfaces



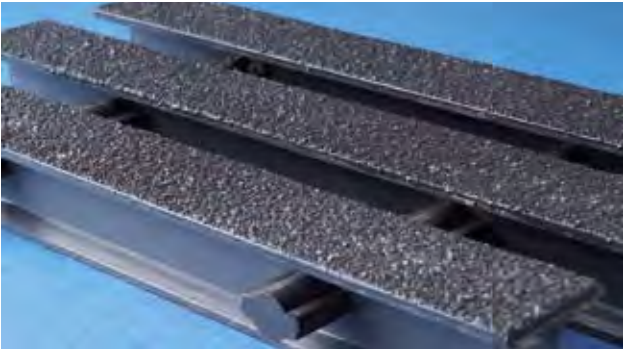
Corrugated Surface



Smooth Surface

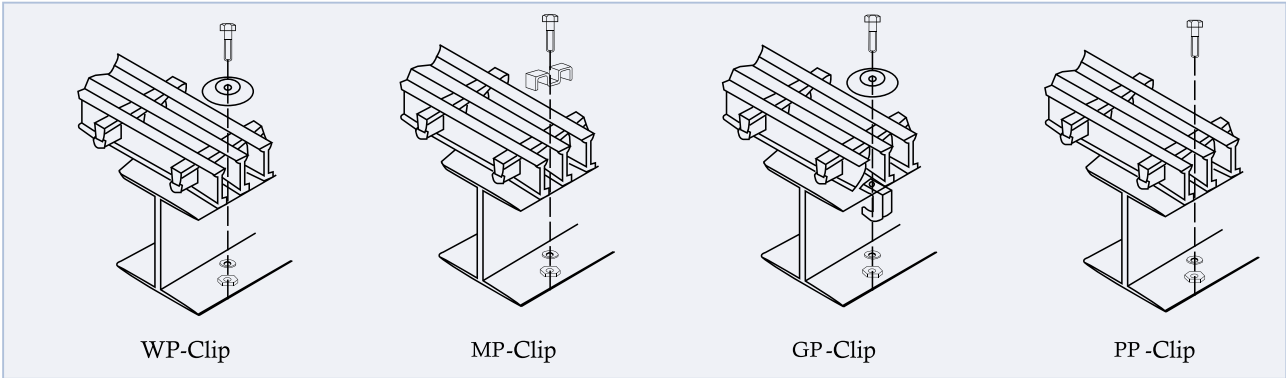


Gritted top cover

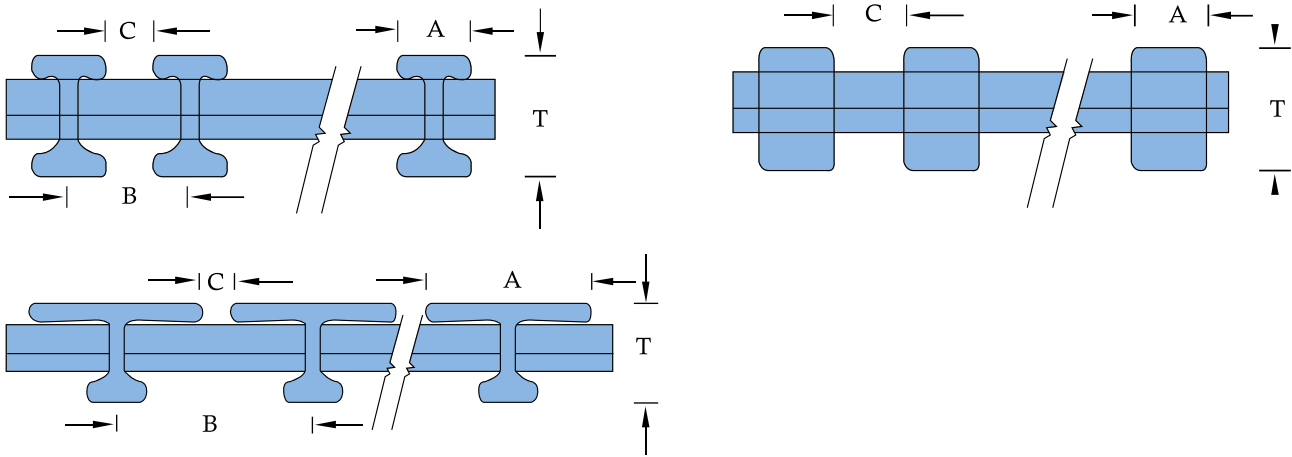


Gritted Surface

Installation Fixing for molded Gratings



Types of DuraGrat Pultruded Gratings

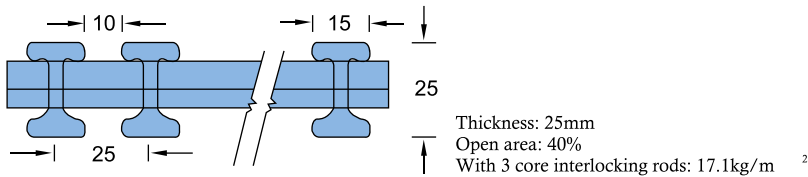
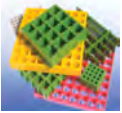


Model No	Height Inch (mm)	Top edge width (mm)	Space between (mm)	Clearance width (mm)	Open area (%)	Estimated weight Kg/m ²
I-4010	25	15	25	10	40	17.1
I-5010	25	15	30	15	50	14.2
I-6010A	25	15	38	23	60	11.2
I-6010B	25	8	19.8	11.8	60	12.2
I-4015	38	15	25	10	40	22
I-5015	38	15	30	15	50	19.1
I-6015	38	15	38	23	60	16.2
I-4012	30	15	25	10	40	18.8
I-5012	30	15	30	15	50	15.7
I-6012	30	15	38	23	60	12.6
I-40125	32	15	25	10	40	19.8
I-50125	32	15	30	15	50	17.4
I-60125	32	15	38	23	60	13.5
I-4020	50	15	25	10	40	28.5
I-5020	50	15	30	15	50	24.2
I-6020	50	15	38	23	60	20.1
T-1210	25	38	43.4	5.4	12	14.5
T-1810	25	38	50.8	9.5	18	13.8
T-2510	25	38	50.8	12.7	25	12.3
T-3310	25	41.3	19.7	61	33	11.2
T-3810	25	38	61	23	38	10.2
T-1215	38	38	43.3	5.2	12	19.6
T-2515	38	38	50.8	12.7	25	16.7
T-3815	38	38	61	23	38	14.2
T-3320	50	25.4	38.1	12.7	33	20.3
T-5020	50	25.4	50.8	25.4	50	15.7
HL-4020	50	15	10	10	40	70.4
HL-5020	50	15	15	15	50	52.2
HL-6020	50	15	23	23	60	43.5

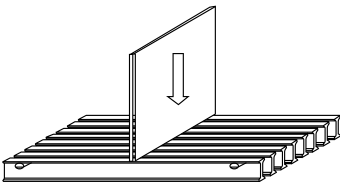


DuraGrat^(R) Pultruded Gratings

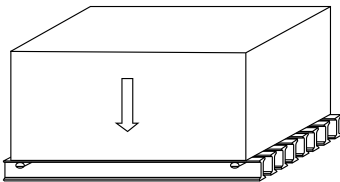
Load and Deflection Tables



I-4010



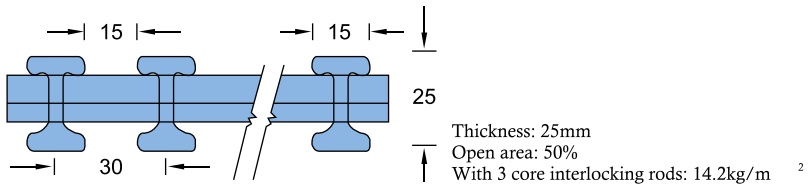
Concentrated line load-deflection in mm



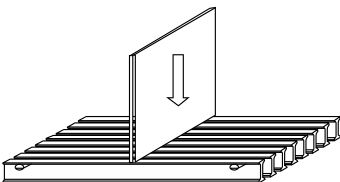
Uniformed load-deflection in mm

Span (mm)	Kg/m						Max load
	300	450	750	1500	3000	5950	
450	--	--	1.02	2.03	4.06	7.62	16593
600	--	--	2.54	4.57	8.89	17.53	12959
900	2.8	4.06	6.6	13.46	26.9	53.85	8639
1200	5.84	8.89	14.73	29.46	59.2	118.11	6420

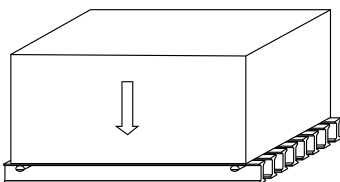
Span (mm)	Kg/m						Max load
	1000	1900	3900	7000	9500	19500	
450	0.25	0.76	1.27	2.29	3.05	6.1	72325
600	1.01	1.27	3.56	6.86	8.89	--	42515
900	4.57	8.38	16.26	--	--	--	18863
1200	14.48	--	--	--	--	--	10507



I-5010



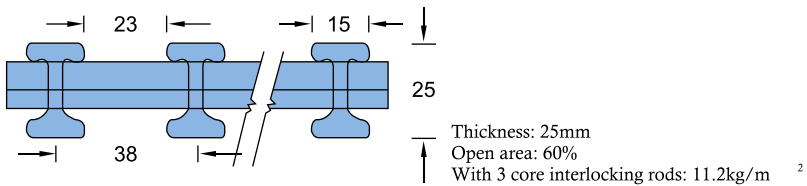
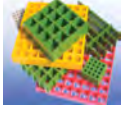
Concentrated line load-deflection in mm



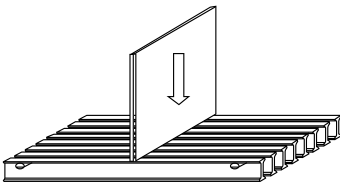
Uniformed load-deflection in mm

Span (mm)	Kg/m						Max load
	300	450	750	1500	3000	5950	
450	--	--	1.02	2.03	4.06	7.62	13808
600	--	--	2.54	4.83	9.4	18.8	10799
900	2.54	4.06	6.86	13.46	27.2	54.1	7194
1200	7.37	10.9	18.92	36.58	73.2	146.05	5362

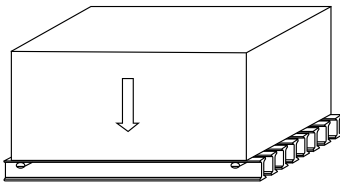
Span (mm)	Kg/m						Max load
	1000	1900	3900	7000	9500	19500	
450	0.51	0.76	1.27	2.54	3.302	6.6	60499
600	1.27	2.29	4.06	5.08	7.26	15.24	35429
900	4.83	8.89	17.27	--	--	--	15638
1200	16.51	--	--	--	--	--	8796



I-6010



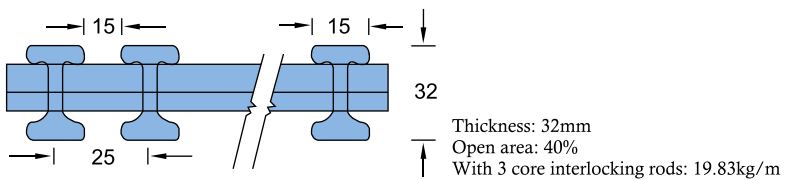
Concentrated line load-deflection in mm



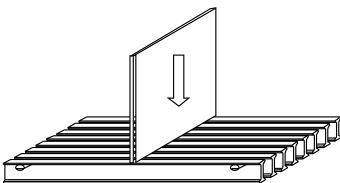
Uniformed load-deflection in mm

Span (mm)	Kg/m						Max load
	300	450	750	1500	3000	5950	
450	--	--	1.52	2.54	4.83	9.65	11067
600	--	--	3.05	5.59	11.2	22.1	8639
900	3.3	4.83	7.87	15.75	31.5	62.99	5750
1200	7.87	11.7	19.3	38.61	77.5	154.69	4275

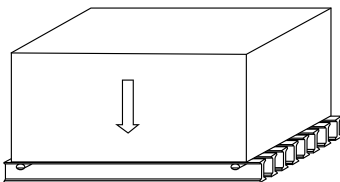
Span (mm)	Kg/m						Max load
	1000	1900	3900	7000	9500	19500	
450	0.51	0.76	1.52	2.79	3.81	7.37	48380
600	1.27	2.29	4.57	8.38	11.18	--	28344
900	5.84	10.92	--	--	--	--	12559
1200	17.78	--	--	--	--	--	6988



I-40125



Concentrated line load-deflection in mm



Uniformed load-deflection in mm

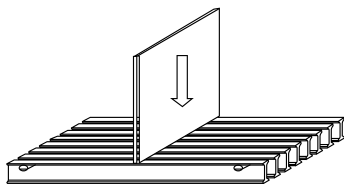
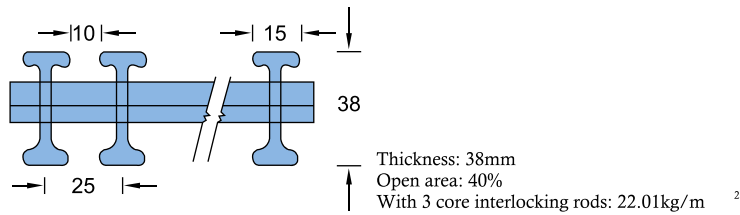
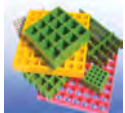
Span (mm)	Kg/m						Max load
	300	450	750	1500	3000	5950	
450	--	--	1.02	2.03	4.06	7.62	13808
600	--	--	2.54	4.83	9.4	18.8	10799
900	2.54	4.06	6.86	13.46	27.2	54.1	7194
1200	7.37	10.9	18.92	36.58	73.2	146.05	5362

Span (mm)	Kg/m								
	300	500	1000	1500	2000	2500	5000	10000	15000
600	0.16	0.27	0.55	0.82	1.09	1.37	2.73	5.47	8.20
800	0.49	0.82	1.63	2.45	3.27	4.08	8.17	--	--
1000	1.16	1.93	3.86	5.79	7.72	9.64	--	--	--
1200	2.32	3.87	7.74	11.62	15.49	--	--	--	--

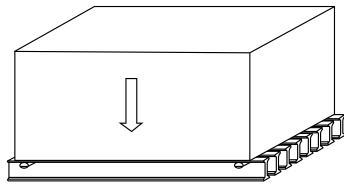


DuraGrat[®] Pultruded Gratings

Load and Deflection Tables



Concentrated line load-deflection in mm

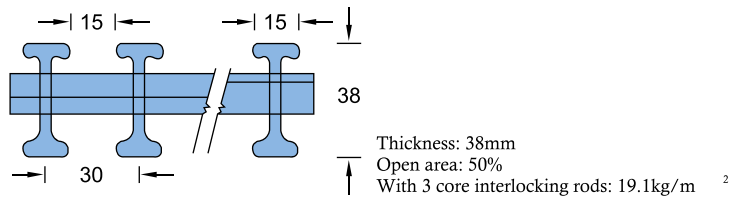


Uniformed load-deflection in mm

I-4015

Span (mm)	Kg/m						Max load
	300	450	750	1500	3000	5950	
450	---	0.25	0.51	0.76	1.52	2.79	26215
600	0.51	0.51	1.02	1.78	3.05	5.84	19661
900	1.02	1.27	2.29	4.32	8.38	16.76	12705
1200	2.03	2.79	4.57	9.4	19.1	37.85	9086

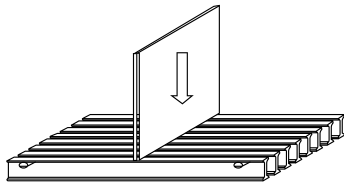
Span (mm)	Kg/m						Max load
	1000	1900	3900	7000	9500	19500	
450	0.25	0.25	0.76	1.27	1.52	3.3	114645
600	0.51	0.76	1.52	2.79	3.81	7.62	64506
900	1.52	2.79	5.33	10.2	13.46	---	27757
1200	---	8.64	---	---	---	---	14905



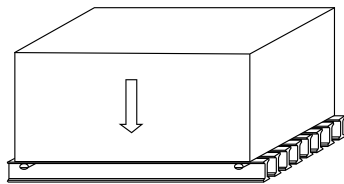
I-5015

Span (mm)	Kg/m						Max load
	300	450	750	1500	3000	5950	
450	--	0.25	0.51	1.02	1.78	3.3	21836
600	0.51	0.51	1.02	1.78	3.56	6.86	16385
900	1.02	1.52	2.54	5.08	9.91	20.07	10576
1200	2.29	3.56	5.84	11.94	23.4	46.99	7567

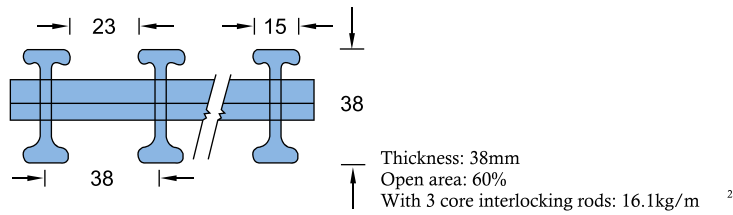
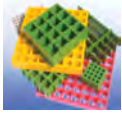
Span (mm)	Kg/m						Max load
	1000	1900	3900	7000	9500	19500	
450	0.25	0.51	0.76	1.27	1.778	3.56	95537
600	0.51	0.76	1.52	3.05	4.06	8.13	53755
900	1.78	3.3	6.1	11.7	15.49	--	23164
1200	5.59	10.69	--	--	--	--	12422



Concentrated line load-deflection in mm



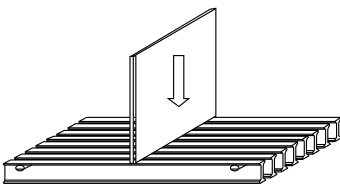
Uniformed load-deflection in mm



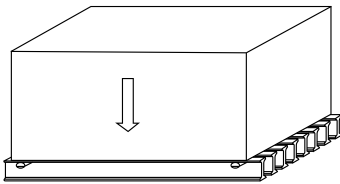
I-6015

Span (mm)	Kg/m						Max load
	300	450	750	1500	3000	5950	
450	--	0.25	0.51	0.76	2.03	3.81	17472
600	0.51	0.76	1.02	2.29	4.32	8.38	13108
900	1.27	2.03	3.3	6.1	12.5	25.15	8460
1200	2.79	4.32	7.11	14.22	28.5	56.9	6047

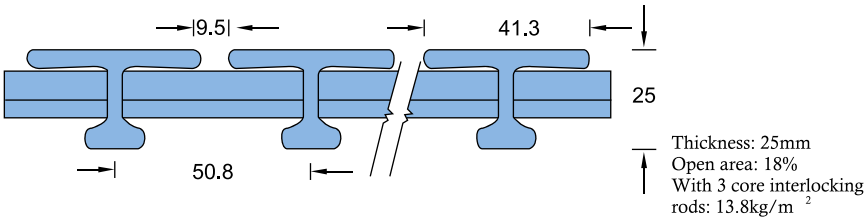
Span (mm)	Kg/m						Max load
	1000	1900	3900	7000	9500	19500	
450	0.25	0.25	0.76	1.27	1.78	3.56	76430
600	0.51	1.02	1.789	3.3	4.57	8.89	43004
900	2.29	4.06	7.87	14.7	--	--	18570
1200	6.6	12.95	--	--	--	--	9920



Concentrated line load-deflection in mm



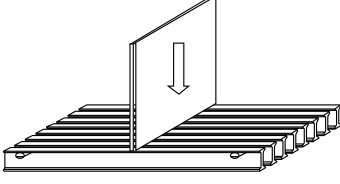
Uniformed load-deflection in mm



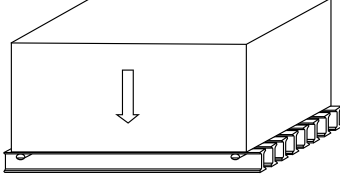
T-1810

Span (mm)	Kg/m						Max load
	300	500	800	1500	2000	2500	
400	0.40	0.67	1.07	2.00	2.67	3.34	5900
600	1.24	2.06	3.30	8.25	--	--	2300
800	2.76	4.59	7.35	13.78	--	--	2300
1000	5.16	8.60	13.76	--	--	--	2200

Span (mm)	Kg/m						Max load
	300	500	800	1500	2000	2500	
400	0.10	0.17	0.27	0.50	0.67	0.83	29600
600	0.46	0.77	1.24	2.32	3.10	3.87	12700
800	1.38	2.30	3.67	6.89	9.18	11.48	7300
1000	3.22	5.37	8.60	--	--	--	4600



Concentrated line load-deflection in mm

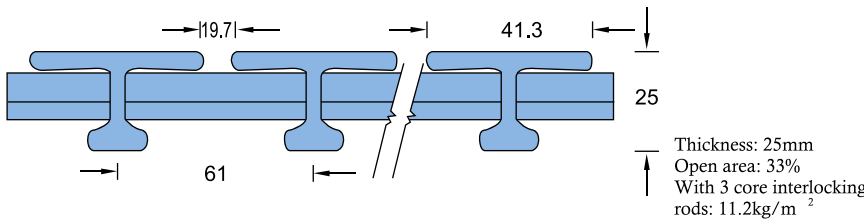


Uniformed load-deflection in mm

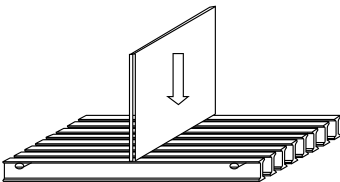


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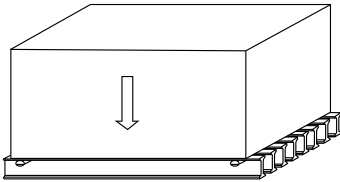
Load and Deflection Tables



T-3310



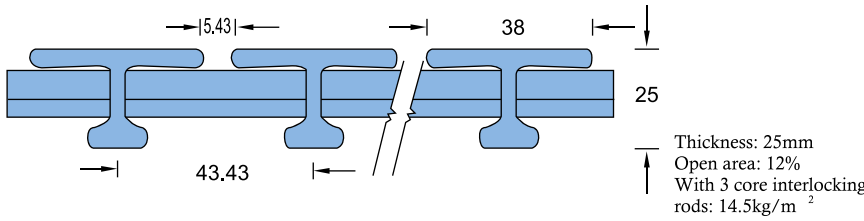
Concentrated line load-deflection in mm



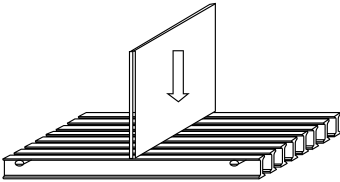
Uniformed load-deflection in mm

Span (mm)	Kg/m						Max load
	300	450	750	1500	3000	5950	
450	0.584	0.86	1.448	2.87	5.74	--	10309
600	1.27	1.93	3.226	6.452	--	--	7731
900	4.013	5.99	10.06	--	--	--	5024
1200	8.992	--	--	--	--	--	3620

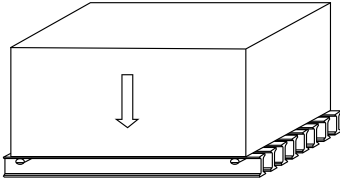
Span (mm)	Kg/m						Max load
	1000	1900	3900	7000	9500	19500	
450	0.56	1.069	2.134	4.039	5.23	--	45076
600	1.63	3.226	6.542	12.12	--	--	25363
900	7.52	15.04	--	--	--	--	10971
1200	--	--	--	--	--	--	5938



T-1210



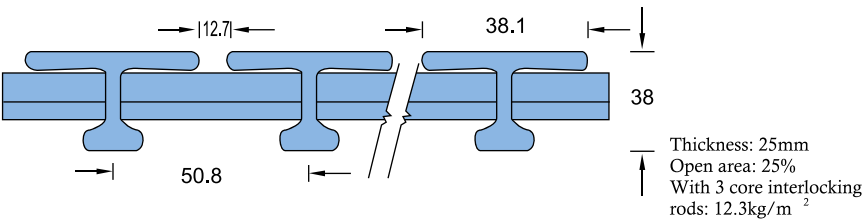
Concentrated line load-deflection in mm



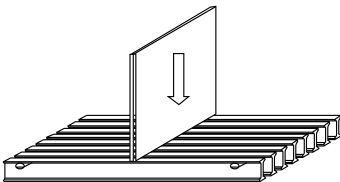
Uniformed load-deflection in mm

Span (mm)	Kg/m						Max load
	150	300	450	750	1500	3000	
450	0.254	0.508	0.762	1.27	2.286	4.826	6481.5
600	0.508	1.016	1.524	2.286	4.826	9.652	4857.4
900	1.524	3.048	4.826	7.874	--	--	3233.3
1200	3.556	7.366	10.922	--	--	--	2428.7

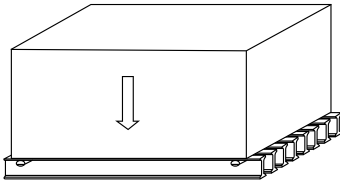
Span (mm)	Kg/m						Max load
	450	950	1450	2400	4850	9500	
450	<0.254	0.254	0.762	1.016	2.286	4.572	14932.8
600	0.508	1.27	1.778	3.048	6.096	12.92	11175.2
900	2.794	5.842	8.89	--	--	--	7076
1200	9.144	--	--	--	--	--	3562.4



T-2510



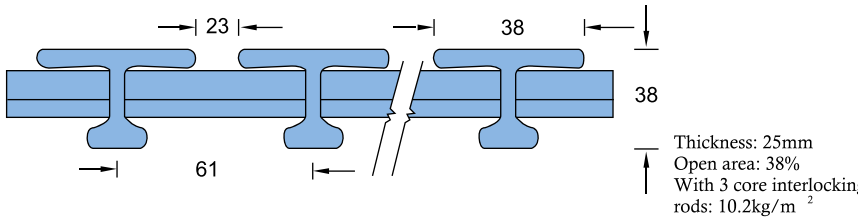
Concentrated line load-deflection in mm



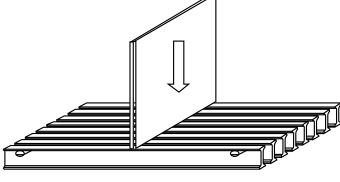
Uniformed load-deflection in mm

Span (mm)	Kg/m						Max load
	150	300	450	750	1500	3000	
450	0.254	0.508	0.762	1.27	2.794	5.588	4619
600	0.508	1.016	1.778	2.794	5.588	11.43	3471.7
900	1.778	3.556	5.588	9.144	--	--	2309.5
1200	2.032	4.318	8.382	12.7	--	--	1728.4

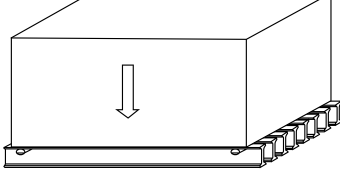
Span (mm)	Kg/m						Max load
	450	950	1450	2400	4850	9500	
450	0.254	0.508	0762	1.27	2.54	5.08	10638.4
600	0.762	1.524	2.032	3.556	7.112	--	8003.2
900	3.556	6.858	10.414	--	--	--	5075.2
1200	10.668	--	--	--	--	--	2830.4



T-3810



Concentrated line load-deflection in mm



Uniformed load-deflection in mm

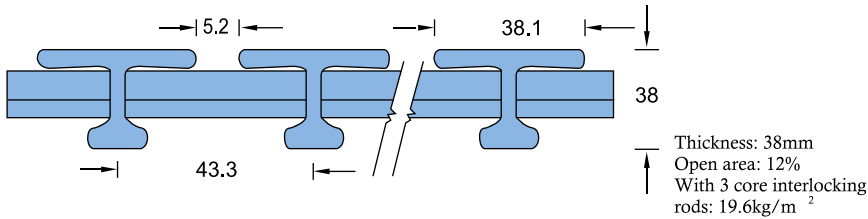
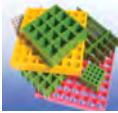
Span (mm)	Kg/m						Max load
	300	450	750	1500	3000	5950	
450	0.711	1.02	1.727	3.454	6.91	--	8600
600	1.549	2.34	3.886	7.747	--	--	6427
900	4.826	7.21	--	--	--	--	4180
1200	10.77	--	--	--	--	--	3018

Span (mm)	Kg/m						Max load
	1000	1900	3900	7000	9500	19500	
450	0.66	1.295	2.616	5.004	6.53	--	37624
600	1.96	3.886	7.772	--	--	--	21087
900	9.02	--	--	--	--	--	9158
1200	6.6	12.95	--	--	--	--	9920

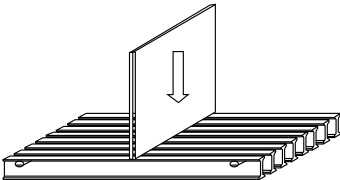


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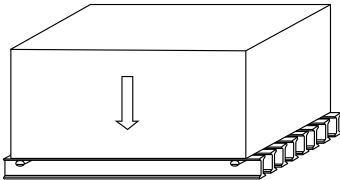
Load and Deflection Tables



T-1215



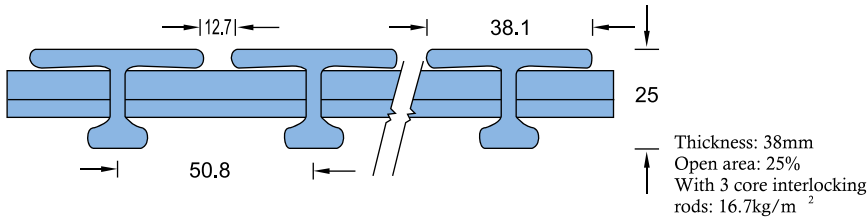
Concentrated line load-deflection in mm



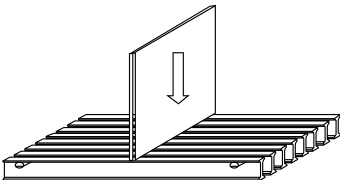
Uniformed load-deflection in mm

Span (mm)	Kg/m						Max load
	150	300	450	750	1500	3000	
450	<0.254	0.254	0.254	0.508	1.016	1.778	8791
600	<0.254	0.254	0.508	0.762	1.778	3.556	7032.8
900	0.508	1.016	1.524	2.794	5.334	10.668	4678.6
1200	1.27	2.54	3.555	6.096	12.192	--	3516.4

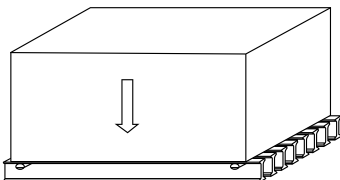
Span (mm)	Kg/m						Max load
	450	950	1450	2400	4850	9500	
450	<0.254	0.254	0.254	0.508	1.016	1.778	19227.2
600	0.254	0.508	0.762	1.016	2.286	4.318	14396
900	1.016	2.032	3.048	5.08	10.16	--	9613.6
1200	3.048	6.096	9.144	--	--	--	5758.4



T-2515



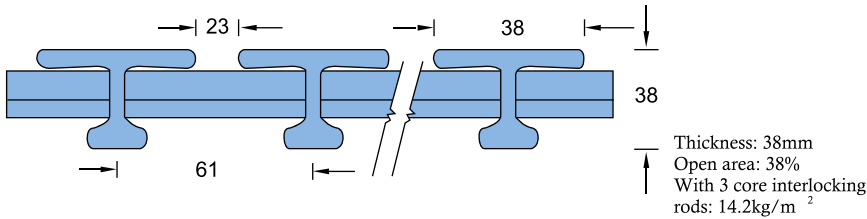
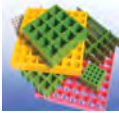
Concentrated line load-deflection in mm



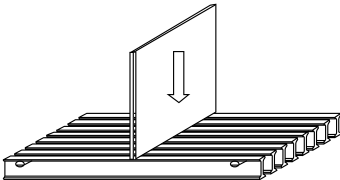
Uniformed load-deflection in mm

Span (mm)	Kg/m						Max load
	150	300	450	750	1500	3000	
450	<0.254	0.254	0.254	0.508	1.016	2.286	7539.4
600	0.254	0.508	0.508	1.016	2.032	4.064	6019.6
900	0.508	1.27	1.778	3.048	6.35	12.446	4023
1200	1.524	2.794	4.318	7.112	--	--	3009.8

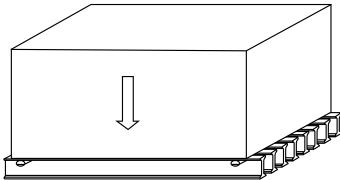
Span (mm)	Kg/m						Max load
	450	950	1450	2400	4850	9500	
450	<0.254	0.254	0.254	0.508	1.016	2.032	16494.4
600	0.254	0.508	0.762	1.27	2.54	5.08	12346.4
900	1.27	2.286	3.556	5.842	11.684	--	8247.2
1200	3.556	7.112	10.668	--	--	--	4928.8



T-3815



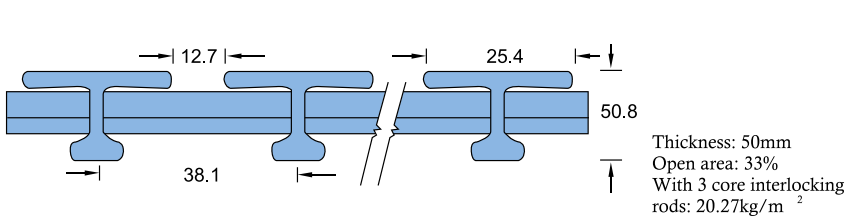
Concentrated line load-deflection in mm



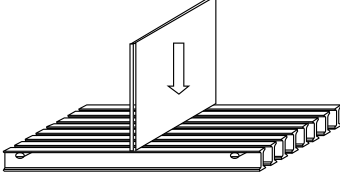
Uniformed load-deflection in mm

Span (mm)	Kg/m						Max load
	150	300	450	750	1500	3000	
450	0.254	0.254	0.508	0.762	1.27	2.54	6287.8
600	0.254	0.508	0.762	1.27	2.286	4.826	5021.3
900	0.762	1.524	2.286	3.81	7.62	--	3352.5
1200	1.778	3.302	5.08	8.382	--	--	2503.2

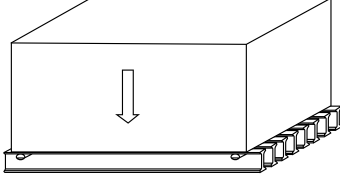
Span (mm)	Kg/m						Max load
	450	950	1450	2400	4850	9500	
450	<0.254	0.254	0.254	0.508	1.27	2.54	13712.8
600	0.254	0.508	1.01	1.524	3.048	6.096	10296.8
900	1.524	2.794	4.318	7.112	--	--	6880.8
1200	4.318	8.382	12.7	--	--	--	4099.2



T-3320



Concentrated line load-deflection in mm



Uniformed load-deflection in mm

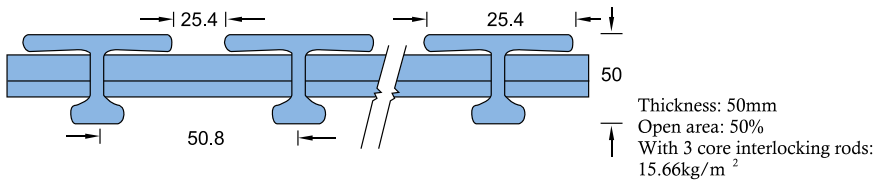
Span (mm)	Kg/m						Max load
	300	450	750	1500	3000	5950	
600	--	0.25	0.51	1.02	1.78	3.3	16876
900	0.51	0.76	1.27	2.29	4.57	9.4	7492
1200	1.02	1.52	2.29	4.83	9.91	19.56	4215
1500	1.78	2.79	4.57	9.14	18.3	36.58	2696

Span (mm)	Kg/m						Max load
	1000	1900	3900	7000	9500	19500	
600	0.25	0.51	0.76	1.52	2.03	4.06	55368
900	0.76	1.52	3.05	5.59	7.73	14.99	36895
1200	2.29	4.57	9.4	--	--	--	27659
1500	5.0	9.91	--	--	--	--	22137

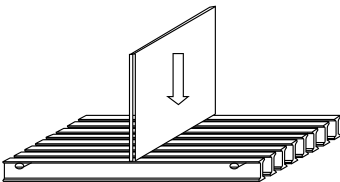


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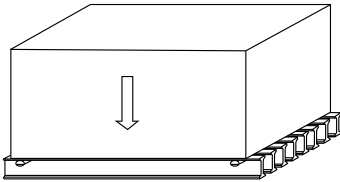
Load and Deflection Tables



T-5020



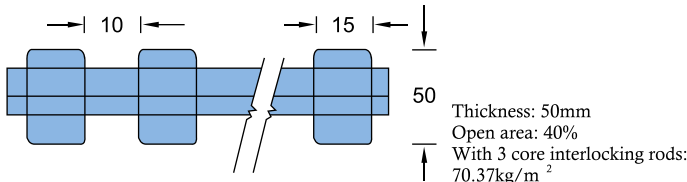
Concentrated line load-deflection in mm



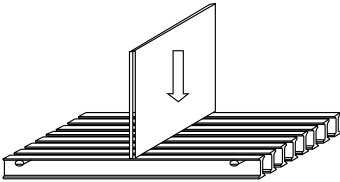
Uniformed load-deflection in mm

Span (mm)	Kg/m						Max load
	300	450	750	1500	3000	5950	
600	0.25	0.51	0.76	1.27	2.29	4.57	--
900	0.76	1.27	1.78	3.3	6.1	12.19	--
1200	1.52	2.29	3.56	6.6	13.5	27.18	--
1500	2.54	3.81	6.35	12.45	24.6	49.53	--

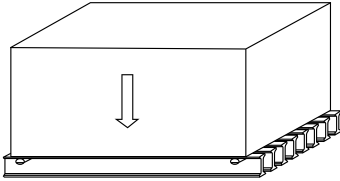
Span (mm)	Kg/m						Max load
	1000	1900	3900	7000	9500	19500	
600	0.51	0.76	1.27	2.29	3.05	6.35	--
900	1.02	2.03	3.81	6.86	9.4	--	--
1200	3.3	6.35	12.45	--	--	--	--
1500	6.86	13.46	--	--	--	--	--



HL-4020



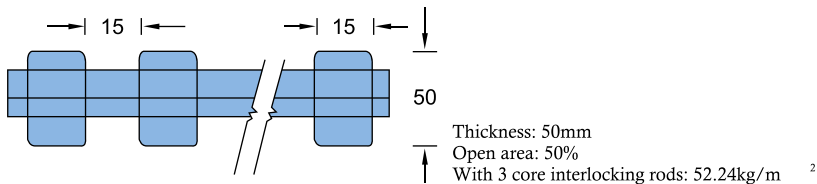
Concentrated line load-deflection in mm



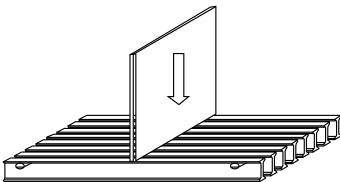
Uniformed load-deflection in mm

Span (mm)	Kg/m								
	150	300	450	750	1500	3000	4500	6000	7500
600	0.03404	0.06807	0.0851	0.1532	0.3063	0.5956	0.90195	1.1914	1.4977
750	0.0511	0.1021	0.1702	0.2723	0.5446	1.0892	1.6337	2.1954	2.7399
900	0.0851	0.1872	0.2723	0.4595	0.91897	1.8379	2.7399	3.6589	4.5779
1200	0.2212	0.4255	0.7722	1.0721	2.1443	4.2885	6.4328	8.5772	10.7214

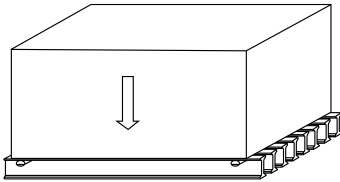
Span (mm)	Kg/m								
	450	950	1450	2450	4850	9800	14500	19500	24400
600	0.03404	0.0681	0.11913	0.1872	0.3744	0.7489	1.1232	1.4976	1.85496
750	0.0851	0.1702	0.2553	0.4255	0.8509	1.7019	2.5697	3.4206	4.2715
900	0.1702	0.3404	0.51054	0.8509	1.7188	3.4377	5.1394	6.8583	8.57707
1200	0.5446	1.07213	1.6167	2.6888	5.3607	10.7214	--	--	--



HL-5020



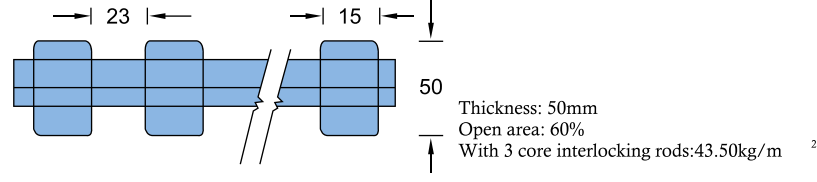
Concentrated line load-deflection in mm



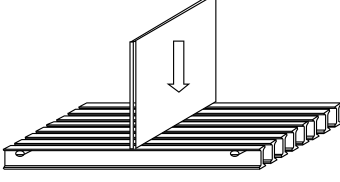
Uniformed load-deflection in mm

Span (mm)	Kg/m								
	150	300	450	750	1500	3000	4500	6000	7500
600	0.0406	0.0813	0.1016	0.1829	0.3658	0.7112	1.077	1.4225	1.7883
750	0.06096	0.1219	0.2032	0.3251	0.6502	1.3005	1.9507	2.6214	3.2716
900	0.1016	0.2235	0.32512	0.5486	1.0973	2.1946	3.2715	4.3689	5.4662
1200	0.2642	0.508	0.77216	1.2802	2.5603	5.1206	7.68096	10.2414	12.8017

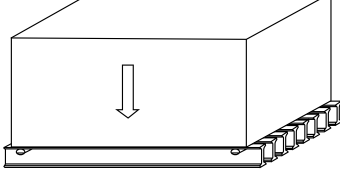
Span (mm)	Kg/m								
	450	950	1450	2450	4850	9800	14500	19500	24400
600	0.0406	0.0813	0.1422	0.2235	0.447	0.8942	1.3411	1.7881	2.2149
750	0.1016	0.2032	0.3048	0.508	1.016	2.033	3.0683	4.0843	5.1003
900	0.2032	0.4064	0.6096	1.016	2.0523	4.1047	6.1366	8.1889	10.2413
1200	0.6502	1.2802	1.9304	3.2106	6.4008	12.8017	--	--	--



HL-6020



Concentrated line load-deflection in mm



Uniformed load-deflection in mm

Span (mm)	Kg/m								
	150	300	450	750	1500	3000	4500	6000	7500
600	0.0508	0.1016	0.127	0.2286	0.4572	0.889	1.3462	1.779	2.2353
750	0.0762	0.1524	0.254	0.4046	0.8128	1.6256	2.4384	3.2767	4.0895
900	0.127	0.2794	0.4064	0.6858	1.3716	2.7432	4.0894	5.462	6.8327
1200	0.3302	0.635	0.9652	1.6002	3.2004	6.4008	9.6012	12.8017	16.003

Span (mm)	Kg/m								
	450	950	1450	2450	4850	9800	14500	19500	24400
600	0.0508	0.1016	0.1778	0.2794	0.5588	1.1177	1.6764	2.2352	2.7686
750	0.127	0.254	0.381	0.635	1.27	2.55	3.8354	5.1054	6.3754
900	0.254	0.508	0.762	1.27	2.5654	5.1309	7.6708	10.2362	12.8016
1200	0.8128	1.6002	2.413	4.0132	8.001	16.003	--	--	--



DuraPro Structural Profiles



Chemical resistance chart of Pultruded profiles

Chemical	Type 'vinyl'		Type 'Iso'	
	%Conc.	Max. Oper. Temp	%Conc.	Max. Oper. Temp
Acetic acid	50	180/82	50	125/52
Benzonic acid	SAT	200/93	SAT	150/66
Chromate	10	120/49	5	70/21
Citric acid	ALL	200/93	ALL	170/77
Hydrobromic acid	50	120/49	50	120/49
Hydrocihloric acid	37	100/38	37	75/24
Lactic acid	ALL	200/93	SAT	170/77
Nirate	20	100/38	20	70/21
Oxalic acid	ALL	120/96	ALL	75/24
Perchloric acid	30	80/27	N/R	N/R
Phosphate	100	200/93	100	120/49
Sulfuric acid	75	100/38	25	75/24
Tartaric acid	ALL	200/93	ALL	170/77
Vineger	100	200/93	100	170/77
Ammonium hydroxide	28	100/38	28	N/R
OH	100	170/77	100	160/71

borax	SAT	200/93	SAT	170/77
Ammonium oxidation	ALL	190/88	ALL	170/77
Ammonium bicarbonate	50	150/65	15	125/52
Ammonium sulfate	ALL	200/93	ALL	170/77
Calcium carbonate	ALL	180/82	SAT	170/77
Calcium nitrate	ALL	200/93	ALL	180/82
Copper chloride	ALL	200/93	ALL	170/77
Copper cyanide	ALL	200/93	ALL	170/77
Copper nitrate	ALL	200/93	ALL	170/77
Ferric chloride	ALL	200/93	ALL	170/77
Ferrous chloride	ALL	200/93	ALL	170/77
Lithium chloride	SAT	200/93	SAT	150/66
Magnesium chloride	ALL	200/93	ALL	170/77
Magnesium nitrate	ALL	180/82	ALL	150/66
Magnesium sulfate	ALL	190/88	ALL	170/77
Mercuric chloride	100	190/88	100	150/66
Calomel	ALL	180/82	ALL	140/60
Nickel chloride	ALL	200/93	ALL	170/77
Nickel sulfate	ALL	200/93	ALL	170/77
Potassium chloride	ALL	200/93	ALL	170/77
Potassium dichromate	ALL	200/93	ALL	170/77
Potassium nitrate	ALL	200/93	ALL	170/77
Potassium sulfate	ALL	200/93	ALL	170/77
Sodium acetate	ALL	200/93	ALL	160/71
Sodium bisulfate	ALL	200/93	ALL	170/77
Sodium bromide	ALL	200/93	ALL	170/77
Sodium chlorine	ALL	200/93	ALL	170/77
Sodium cyanide	25	150/66	N/R	N/R
Sodium nitrate	ALL	200/93	ALL	170/77
Sodium sulfate	ALL	200/93	ALL	170/77
Stannic chloride	ALL	200/93	ALL	170/77
Zinc nitrate	ALL	190/88	ALL	160/71
Phenoxin	100	200/93	N/R	170/77
Chlorine	...	75/24	...	N/R
Chlorine water	SAT	170/77	SAT	140/60
Ethanol	50	180/82	50	80/27
Diethylene glycol	100	90/32	100	75/24
formaldehyde	ALL	200/93	50	90/32
gasoline	100	100/38	100	75/24
glucose	100	150/65	100	80/27
Glycerol	100	200/93	100	170/77
Peroxide	30	200/93	5	150/66
Diethylpropanediol	ALL	100/38	ALL	100/38
Distilled water	100	200/93	100	170/77
Benzene	N/R	180/82	N/R	170/77

ALL-concentrations; SAT-saturated solution; N/R- not recommended; ...-no information available



DuraPro Structural Profiles



View/instance	Type	Dimension (mm)	Weight (kg/m)
	C-Channel	A × B × T ₁ × T ₂	
	C26	26×17×3.2×3.2	0.30
	C32	32×13×3×3	0.25
	C40	40×24×3.2×3.2	0.50
	C45	45×28×6.4×6.4	0.91
	C50	50×14×3.2×3.2	0.44
	C52	52×50×6×6	1.63
	C70	70×30×4.5×4.5	0.95
	C75	75×35×5×5	1.30
	C76A	76×22×6.4×6.4	1.31
	C76B	76×25×4.8×4.8	1.06
	C76C	76×38×6.4×6.4	1.70
	C90A	90×35×8.0×8.0	2.10
	C102A	102×27×3.2×3.2	0.91
	C102B	102×29×4.8×4.8	1.37
	C102C	102×29×6.4×6.4	1.78
	C102D	102×35×4.8×4.8	1.48
	C102E	102×44×4.8×4.8	1.65
	C102F	102×44×6.4×6.4	2.10
	C120	120×50×5.0×5.0	2.00
	C150	150×41×8.0×8.0	3.28
	C152A	152×42×4.8×4.8	2.03
	C152B	152×42×6.4×6.4	2.72
	C152C	152×42×8.8×8.0	3.35
	C152D	152×42×9.5×9.5	3.95
	C152E	152×50×8.0×8.0	3.59
	C203A	203×56×6.4×6.4	3.68
	C203B	203×56×9.5×9.5	5.34
	C254	254×70×12.7×12.7	8.90
	C210A	210×55×5.0×5.0	2.95
	C210B	210×80×5.0×5.0	3.42
	C210C	210×85×5.0×5.0	3.52
	C292	292×70×12.7×12.7	9.60
	C120A	120×25×5.0×5.0	1.52
	C120B	120×30×5.0×5.0	1.62
	C120C	120×40×5.0×5.0	1.81

View/instance	Type	Dimension (mm)	Weight (kg/m)
	Deck	A × B × T	
		305×47.5×6.4	8.5
		500×48.5×6.0	16.4
		500×40×5.0	10.5
	Floor plate	A × B × T	
		500×48.5×6.0	16.4
		650×98.5×13	55.3
		725×45×4.5	17.5



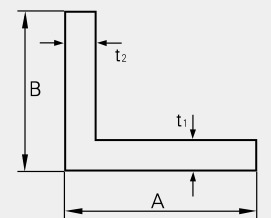
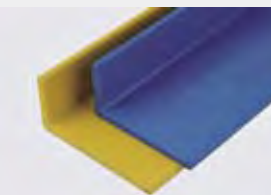
View/instance	Type	Dimension (mm)	Weight (kg/m)
	Square-tube	A × B × T ₁ × T ₂	
	ST25A	25×25×2.8×2.8	0.50
	ST25B	25×25×3.2×3.2	0.53
	ST25C	25×25×6.4×6.4	0.90
	ST32	32×32×6.4×6.4	1.24
	ST38A	38×38×3.2×3.2	0.85
	ST38B	38×38×5.0×5.0	1.25
	ST38C	38×38×6.4×6.4	1.54
	ST44A	44×44×3.2×3.2	1.01
	ST44B	44×44×6.4×6.4	1.83
	ST50A	50×50×3.2×3.2	1.14
	ST50B	50×50×3.5×3.5	1.24
	ST50C	50×50×4.0×4.0	1.42
	ST50D	50×50×5.0×5.0	1.74
	ST50E	50×50×6.4×6.4	2.12
	ST54A	54×54×3.2×3.2	1.24
	ST54B	54×54×4.8×4.8	1.78
	ST64A	64×64×3.2×3.2	1.48
	ST64B	64×64×4.4×4.4	1.97
	ST64C	64×64×6.4×6.4	2.80
	ST76A	76×76×3.2×3.2	1.77
	ST76B	76×76×5.0×5.0	2.70
	ST76C	76×76×6.4×6.4	3.39
	ST101A	101×101×3.2×3.2	2.38
	ST101B	101×101×5.0×5.0	3.61
	ST101C	101×101×6.4×6.4	4.61
	ST152A	152×152×6.4×6.4	7.10
	ST152B	152×152×9.5×9.5	10.4
	ST152C	152×152×12.7×12.7	13.5
	Handrail	A × B × T	
		62×60×5.0	1.70

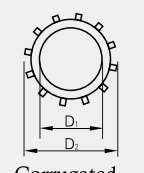
View/instance	Type	Dimension (mm)	Weight (kg/m)
	I-shape	A × B × T ₁ × T ₂	
	IB25	15×25×4.0×6.4	0.40
	IB32	15×32×4.0×6.4	0.44
	IB38A	15×38×4.0×6.4	0.51
	IB38B	38×76×6.4×6.4	1.69
	IB50A	50×102×6.4×6.4	2.40
	IB50B	50×102×8.0×8.0	3.00
	IB76A	76×152×6.4×6.4	3.59
	IB76B	76×152×9.5×9.5	5.32
	IB102A	102×203×9.5×9.5	7.20
	IB102B	102×203×12.7×12.7	9.50
	IB127A	127×254×9.5×9.5	9.00
	IB127B	127×254×12.7×12.7	11.90
	IB152A	152×305×9.5×9.5	10.74
	IB152B	152×305×12.7×12.7	14.30

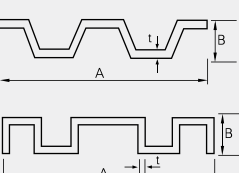
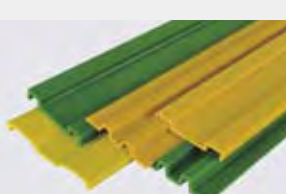


DuraPro Structural Profiles

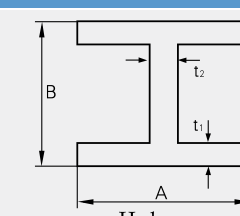


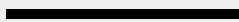
View/instance	Type	Dimension (mm)	Weight (kg/m)
 Equal angle  	Equal angle	$A \times B \times T_1 \times T_2$	
	EL32	32×32×4.0×4.0	0.42
	EL38A	38×38×4.8×4.8	0.65
	EL38B	38×38×6.4×6.4	0.85
	EL38C	38×38×5.0×5.0	0.65
	EL45	45×45×4.8×4.8	0.75
	EL50A	50×50×3.2×3.2	0.59
	EL50B	50×50×6.4×6.4	1.14
	EL70A	70×70×24×6.0	3.75
	EL76A	76×76×3.2×3.2	0.91
	EL76B	76×76×4.8×4.8	1.34
	EL76C	76×76×6.4×6.4	1.77
	EL76D	76×76×9.5×9.5	2.57
	EL76E	76×76×12.7×12.7	3.40
	EL101A	101×101×6.4×6.4	2.50
	EL101B	101×101×8×8	2.95
	EL101C	101×101×9.5×9.5	3.48
	EL101D	101×101×12.7×12.7	4.57
	EL152A	152×152×6.4×6.4	3.62
	EL152B	152×152×9.5×9.5	5.42
	EL152C	152×152×12.7×12.7	7.01
	L40	40×22×4.0×4.0	0.44
	L100	100×50×6.0×6.0	1.65
	L145	145×76×10×10	3.85
	L170	170×76×9.5×9.5	4.40
	L180	180×80×8.0×8.0	3.89

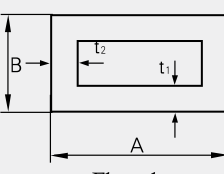
View/instance	Type	Dimension (mm)	Weight (kg/m)
 Corrugated 	Corrugated Round Tube	$D_1 \times D_2 \times T$	
	CT32A	19×32×6.4	1.11
	CT32B	25×32×3.5	0.66
	CT45A	28×45×8.5	1.86
	CT45B	32×45×6.4	1.10
	CT50	50×36×7.0	1.75
	CT90A	78×90×6	3.60
	CT90B	71×90×9.5	5.70

View/instance	Type	Dimension (mm)	Weight (kg/m)
 Kick plate 	Kick plate	$A \times B \times T$	
	M1	100×13×3.2 M-shape	0.77
	M2	100×14×3.2 M-shape	1.10
	M3	100×16×5.0 M-shape	1.30
	M4	148×12×3 M-shape	1.27
	W1	100×19×5.0 W-shape	1.36
	W2	100×14×3.2 W-shape	1.10

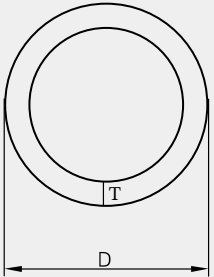


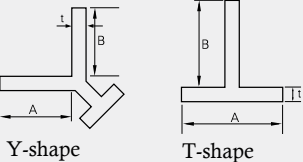
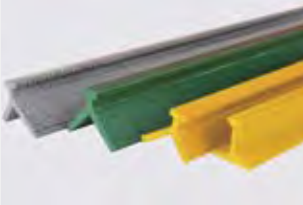
View/instance	Type	Dimension (mm)	Weight (kg/m)
 H-shape 	H-shape	$A \times B \times T_1 \times T_2$	
	HB76	76×76×6.4×6.4	2.67
	HB102A	102×102×6.4×6.4	3.59
	HB102B	102×102×8.0×8.0	4.50
	HB152A	152×152×6.4×6.4	5.43
	HB152B	152×152×9.5×9.5	8.10
	HB203A	203×203×9.5×9.5	10.80
	HB203B	203×203×12.7×12.7	14.36
	HB203C	203×203×6.4×6.4	7.50
	HB254A	254×254×9.5×9.5	13.60
	HB254B	254×254×12.7×12.7	18.04
	HB305	305×305×12.7×12.7	21.50

View/instance	Type	Dimension (mm)	Weight (kg/m)
 Flat plate  Flat strip 	Flat plate	Thickness×width×length	
	FP32	3.2×1220×3660	6.08
	FP64	6.4×1220×3660	12.16
	FP95	9.5×1220×3660	18.05
	FP127	12.7×1220×2440	24.13
	Flat strip	Width×thickness	
	FS20	20×6.4	0.25
	FS30A	30×3.0	0.70
	FS30B	30×6.4	0.36
	FS38	38×5.0	0.36
	FS50A	50×3.0	0.26
	FS50B	50×4.0	0.38
	FS50C	50×8.0	0.76
	FS50D	50×15	1.43
	FS60	60×4.0	0.46
	FS70	70×4.0	0.53
	FS90	90×15	2.57
	FS120	120×3.0	0.69
	FS190	190×15	5.42
	FS280	280×10	5.32

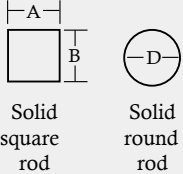
View/instance	Type	Dimension (mm)	Weight (kg/m)
 Flat tube 	Flat tube	$A \times B \times T_1 \times T_2$	
	FT50A	50×25×3×3	0.79
	FT50B	50×25×6.4×6.4	1.54
	FT51A	51×25×4×4	1.01
	FT51B	51×38×4×4	1.22
	FT52	52×32×5×5	1.41
	FT91A	91×38×4×4	1.78
	FT91B	91×112×6.4×6.4	4.46

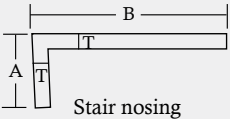
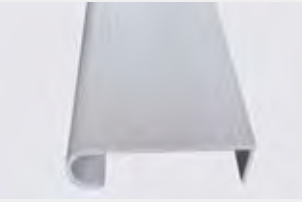


View/instance	Type	Dimension (mm)	Weight (kg/m)
 Round-tube 	Round-tube	D×T	
	RT25	25×3.2	0.44
	RT26A	26×3.0	0.42
	RT26B	26×4.8	0.63
	RT32A	32×3.2	0.55
	RT32B	32×5	0.81
	RT32C	32×6	0.96
	RT35A	35×2.5	0.49
	RT38A	38×3.2	0.65
	RT38B	38×4.0	0.81
	RT38C	38×5.0	1.00
	RT38D	38×6.4	1.18
	RT42A	42×3.2	0.70
	RT42B	42×5.0	1.11
	RT48	48×6.4	1.58
	RT50A	50×3.2	0.84
	RT50B	50×4.0	1.10
	RT50C	50×5.0	1.34
	RT50D	50×6.4	1.67
	RT50E	50×3.5	0.96
	RT50.8A	50.8×6.4	1.70
	RT50.8B	50.8×3.2	0.86
	RT64A	64×3.5	1.26
	RT64B	64×7.0	2.38
	RT76	76×6.4	2.64
	RT89A	89×3.2	1.54
	RT89B	89×5.0	2.51
	RT89C	89×6.4	3.13
	RT99	99×5.0	2.81
	RT101	101×6.4	3.62
	RT114A	114×3.2	2.12
	RT114B	114×5.0	3.25
	RT114C	114×6.4	4.11
	RT114D	114×9.5	5.93
	RT150A	150×3.2	2.81
	RT150B	150×5.0	4.35
	RT150C	150×6.4	5.50
	RT150D	150×9.5	8.00

View/instance	Type	Dimension (mm)	Weight (kg/m)
 Y-shape T-shape 	Y-shape	A×B×T	
		25×38×6.4	1.40
		38×38×6.4	1.60
		50×38×6.4	1.70
	T-shape	A B C	
		54×25×5.0	0.81
		54×25×6.0	0.89
		54×45×6.0	1.1
		54×54×5.0	1.03
		60×40×5.0	1.20
		60×40×6.0	1.30
		76×38×6.4	1.38



View/instance	Type	Dimension (mm)	Weight (kg/m)
 Solid square rod Solid round rod 	Solid square rod	A×B	
	SSR25	25×25	1.23
	SSR32	32×32	2.00
	SSR38	38×38	2.80
	Solid round rod	diameter	
	SRR95	9.5	0.14
	SRR127	12.7	0.26
	SRR254	25.4	1.00
	SRR328	31.8	1.51
	SRR380	38.0	2.15
	SPR42	4.2	0.03
	SPR80	8.0	0.10
	SPR16	16	0.41
	SPR19	19	0.55
	SPR20	20	0.62
	SPR22	22	0.72
	FS120	120×3.0	0.69
	FS190	190×15	5.42
	FS280	280×10	5.32

View/instance	Type	Dimension (mm)	Weight (kg/m)
 Stair nosing  	Stair nosing	A×B×T	
		25×60×3	0.50
		25×50×3	0.45
		30×70×4	0.75
		30×70×3.2	0.70
		55×55×3.2	0.70
		55×55×4	0.74
		55×70×3.2	0.80
		76×30×3	0.60
		90×50×3.2	0.85
	Round angle	30×100×3.2	0.78
	Square angle	30×100×3.2	0.80
		30×155×3.2	1.20
	Square angle	30×230×3.2	1.70
	Round angle	30×230×3.2	1.60
		30×260×3.2	1.80
		40×254×6.4	3.60
		345×55×4	3.85
		30×380×3.2	2.70
		55×400×3.2	2.80



offers an outstanding range of op-quality GRP products manufactured to he highest standards and designed to meet he most demanding specifications

