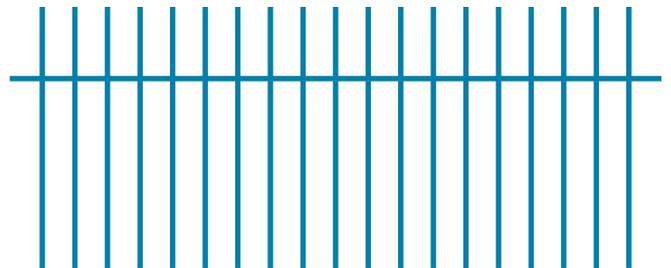
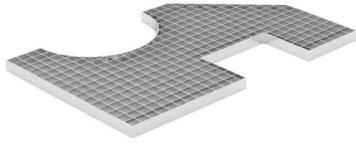


WELDERMAN





WELDERMAN



WeldermaN is the name of hard work that we proudly present to our customer quality, reliability, both in the Access flooring grating and Civil drainage markets.

We are a leading manufacturing service and supplier of Forge-Welded (Electro-Mechanical Welding) grating, spiral staircases, stair tread, railings, grating walkways, cast covers and mezzanines.

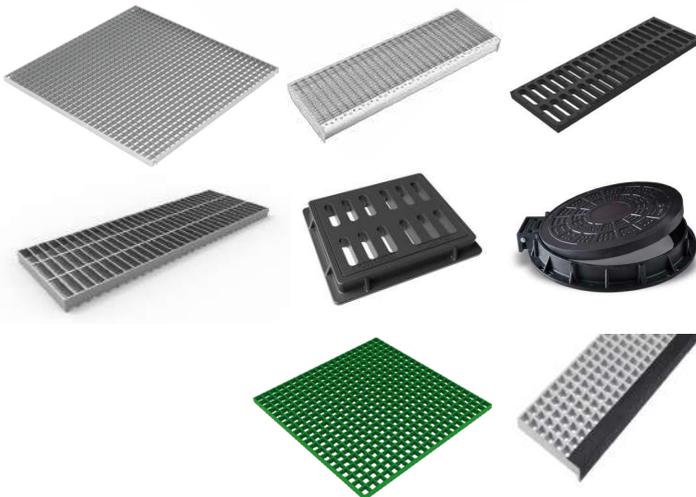
WeldermaN combines the benefits of local manufacture and international sourcing to provide customers with the best product range and project delivery options in the marketplace.

Goal

WeldermaN's goal stands the same today as it was when it began - to be a flexible company that provides the highest level of service to each and every customer. We have years of experience of delivering personal service to our customers. We have worked with tremendous drive and dedication to develop our products. Our production processes should be efficient and environmentally-friendly.

Products:

- Grating
- Stair Treads
- Hand-railing and Spiral Staircase
- Drainage Grates and Trench Covers
- FRP Grating
- Manholes Covers
- Steel Structure
- Marine Equipments & Accessories



Mission

Our spirit has been influenced by the culture of being economical with our resources, caring for our environment and taking the lead. Together with our knowledgeable staff, we create products that will last for decades. What we do today is shaping your future.

Vision

Our promise is to deliver the right quality products at the right time. Easy-to-assemble products and fast deliveries provide customers with the best overall value. WeldermaN is committed to providing customers with products that meet their quality standards and ours too. With our own rational manufacturing, the customer should see us as a long-term, environmentally friendly supplier.

We know our products and are a reliable partner that customers can count on. Our workforce has a combined wealth of expertise and is able to assist customers with advice and instructions. We have a comprehensive range of stock to ensure rapid delivery.

Services:

- Manufacturing Service
- Design
- Technical Support
- Quotations
- Fabrication
- Installation
- Quality Assurance
- Feasibility and Budget Rates
- Lump Sum and Rate Contracts
- Project Management
- Small Jobs
- Large Projects
- Galvanizing Service



GRATING

Grating Terminology

Bearing Bars

Load carrying bar along with the span

Bearing Bar Pitch

center to center spacing between bearing bar

Cross Bars

Connecting bar, run along width of grating

Cross Bar Pitch

Center to center spacing between cross bar

Finish

Applied coating, galvanize

Serrated

Top surface for non-slip surface

Width

Overall dimension of the panel, measured perpendicular to bearing bar

Span

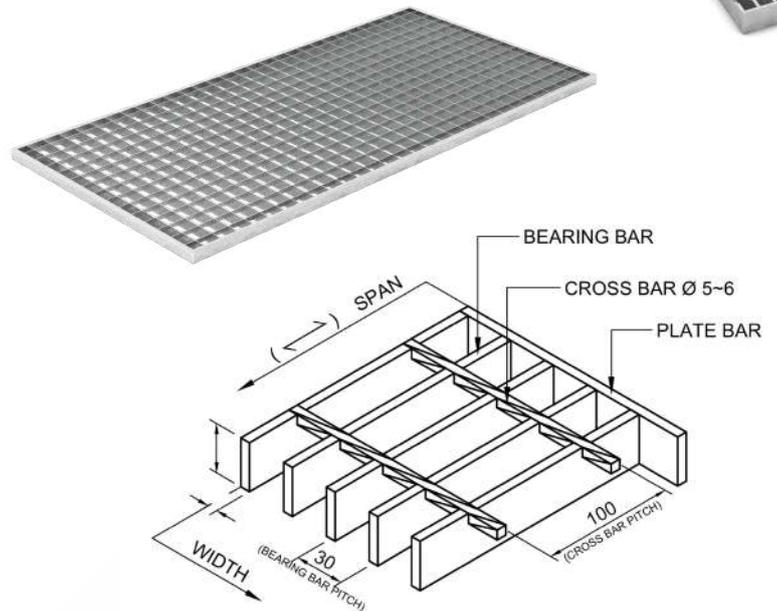
Distance running along direction of bearing bar

Plate Bar

Bar used to close open end

Kick Plate

Flat bar welded to outer edge with projection above grating



- Bearing bar : 30x3mm, 30x5mm, 32x3mm, 32x5mm, 40x5mm, 50x5mm, 65x5mm, 75x5mm, 75x6mm, 100x6mm
- Bearing bar pitch : 30mm, 40mm
- Cross bar : Ø 5~6mm, 6~8mm
- Cross bar pitch 100mm
- Plain
- Galvanized

Top Surface

- Plain (p)
- Serrated (S)

Material

- 250 Mild steel or equivalent
- Q235 / GB/T700 Steel grade

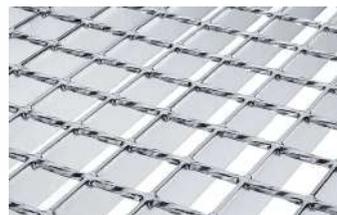
Treatment

- Hot dip galvanized (G)
- Painted (P)
- Untreated (U)

Applications

- Industrial Flooring, Walkways, Bridge Decks, Trenches, Steel Mills, Warehouses, Chemical Plants, Water Treatment Plants, Power Plants, Oil Refineries, Agricultural Facilities

Type (P)



Plain (P)

Type (S)



Serrated (S)

Material



Mild steel

Treatment / Finish



Hot dip galvanized (G)
ASTM A123

STANDARD DUTY: LIGHT & MEDIUM DUTY GRATING

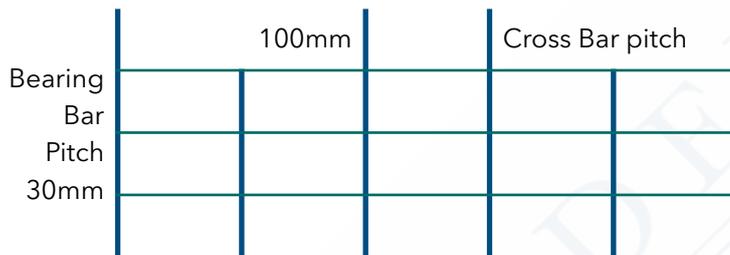
Choose your grating

STANDARD DUTY (SD)

Standard Duty Grating is the most common type of grating used in the industrial flooring market. The open grid construction provides for maximum passage for light, air circulation and drainage. Below are the most common standard duty grating profiles.

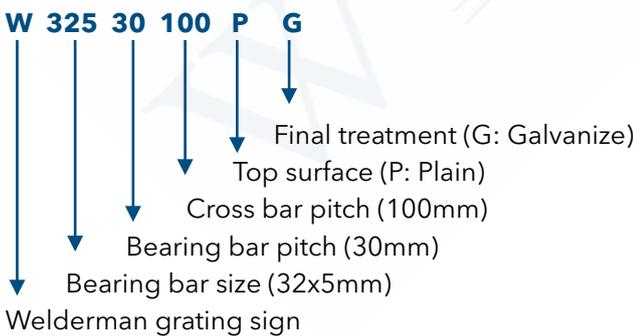
Steel Grating	Bearing Bar Size mm	Bearing Bar Pitch mm	Cross Bar pitch mm	Top Surface P / S	Treatment
W25330100	25x3	30	100	P/S	G
W25530100	25x5	30	100	P/S	G
W30330100	30x3	30	100	P/S	G
W30530100	30x5	30	100	P/S	G
W32330100	32x3	30	100	P/S	G
W32530100	32x5	30	100	P/S	G

Standard Grating Pattern

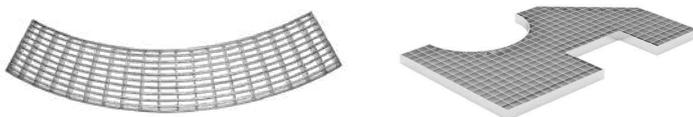


- Bearing bar pitch 100mm (center to center)
- Cross bar pitch 30mm (center to center)

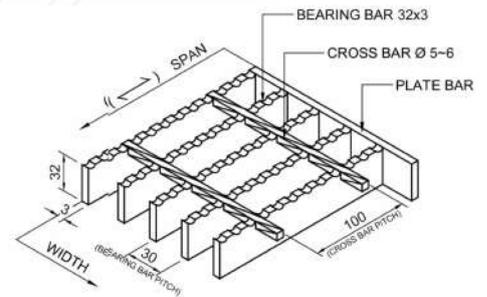
Grating Code



Customizable Grating Design

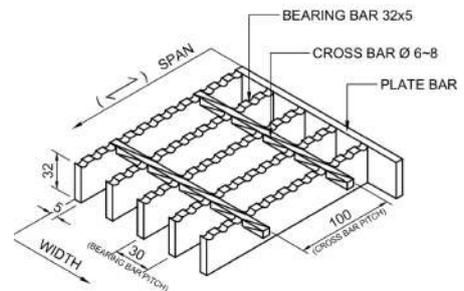


W32330100SG



- Bearing bar: 32x3mm
- Bearing bar pitch: 30mm
- Cross bar: Ø 5~6mm
- Cross bar pitch: 100mm
- Serrated
- Galvanized

W32530100SG



- Bearing bar: 32x5mm
- Bearing bar pitch: 30mm
- Cross bar: Ø 6~8mm
- Cross bar pitch: 100mm
- Serrated
- Galvanized

HEAVY DUTY GRATING: HEAVY LOAD GRATING

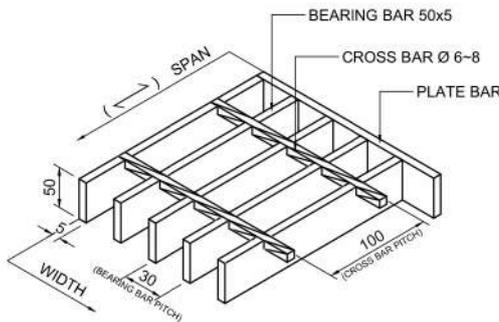
HEAVY-DUTY (HD)

Heavy-Duty Electro Welded Grating has the strength for heavy-duty load areas such as airfields, industrial plants, truck and bus terminals, parking lots and railroad yards. Common uses are flooring, driveways, subway and tunnel ventilation grilles, curb inlet grates, ramps, docks, etc.

Steel Grating	Bearing Bar Size mm	Bearing Bar Pitch mm	Cross Bar Pitch mm	Top Surface P / S	Treatment	
W40530100	40x5	30	40*	100	P/S	G
W50530100	50x5	30	40	100	P/S	G
W65530100	65x5	30	40	100	P/S	G
W75530100	75x5	30	40	100	P/S	G
W75630100	75x6	30	40	100	P/S	G
W100630100	100x6	30	40	100	P/S	G

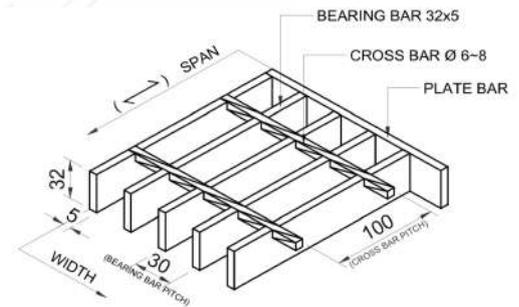
*40mm bearing bar pitch available upon request

W50530100PG



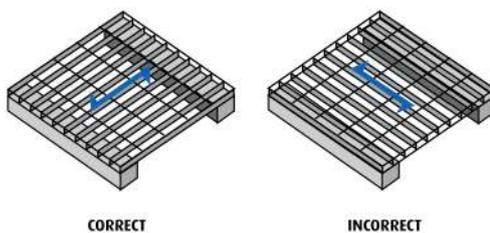
- Bearing bar : 50x5mm
- Bearing bar pitch : 30mm
- Cross bar : Ø 6~8mm
- Cross bar pitch 100mm
- Plain
- Galvanized

W32530100PG

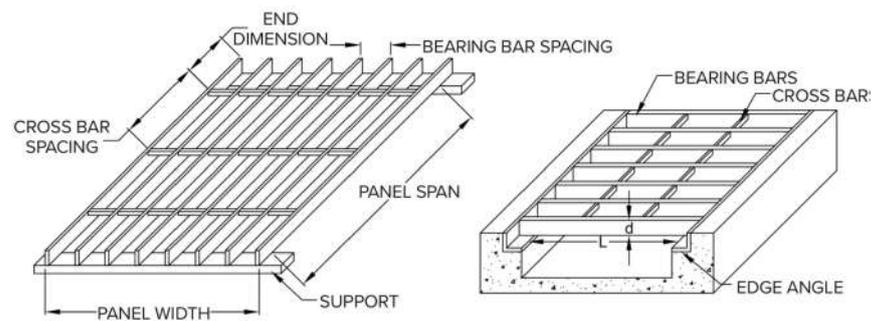


- Bearing bar : 32x5mm
- Bearing bar pitch : 30mm
- Cross bar : Ø 6~8mm
- Cross bar pitch 100mm
- Plain
- Galvanized

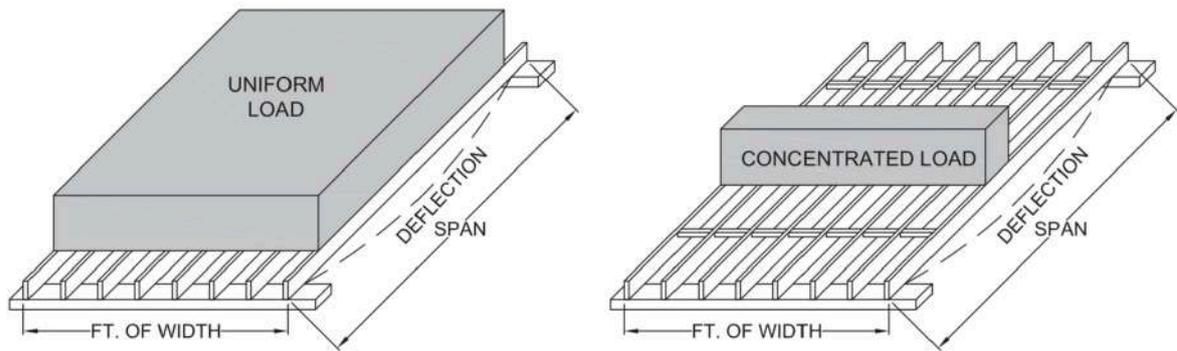
Note: The bearing bar is the flat bar from which the grating and the support of the grating has to be perpendicular this direction. The direction of bearing bars define the span of the grating.



Grating layout



LOAD TABLE : MAXIMUM RECOMMENDED SPAN



STANDARD DUTY GRATING MAXIMUM RECOMMENDED SPAN

Steel Grating	Bearing Bar Size mm	UDL 2.5kPa	UDL 3kPa	UDL 4kPa
		Deflection 5mm Bearing Bar Pitch 30mm	Deflection 5mm Bearing Bar pitch 30mm	Deflection 5mm Bearing Bar pitch 30mm
W25330100	25x3	1410	1350	1250
W25530100	25x5	1600	1530	1420
W32330100	32x3	1700	1620	1510
W32530100	32x5	1930	1840	1710

USAGE

For Maintenance Platforms

Pedestrian, flooring

Public pedestrian

HEAVY DUTY GRATING MAXIMUM RECOMMENDED SPAN

Steel Grating	Bearing Bar Size mm	UDL 5kPa	UDL 7,5kPa
		Deflection 5mm Bearing Bar Pitch 30mm	Deflection 5mm Bearing Bar pitch 30mm
W40530100	40x5	1920	1730
W50530100	50x5	2270	2050
W65530100	65x5	2760	2490
W75530100	75x5	3080	2780
W75630100	75x6	3220	2910
W100630100	100x6	4200	3900

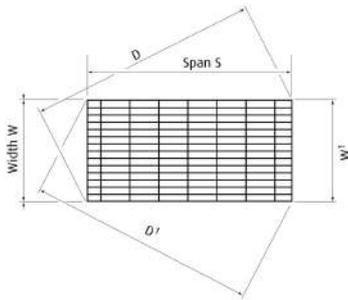
USAGE

Factory, generator room, trolley channel, forklift track

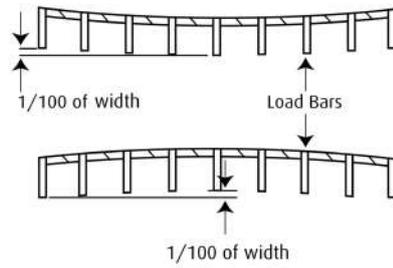
Heavy loading area, industrial plant, heavy equipment area, dock, ramps etc.

FABRICATION TOLERANCE & INSTALLATION

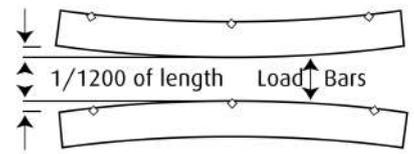
Panel Size ~3mm



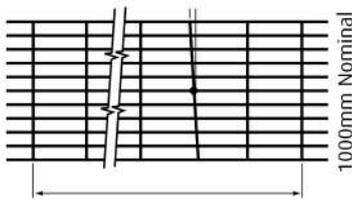
Traverse Bow



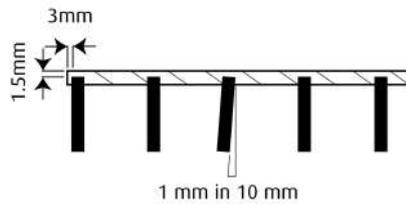
Longitudinal Bow



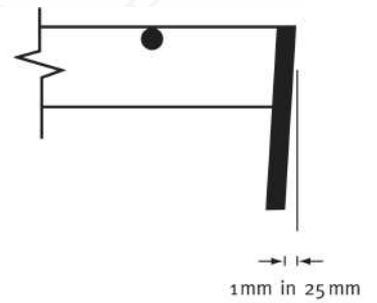
Cross bar and pitch



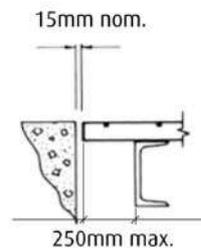
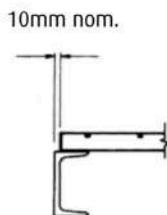
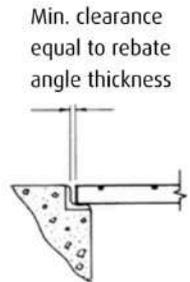
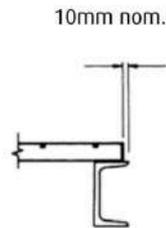
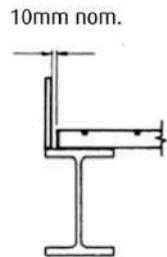
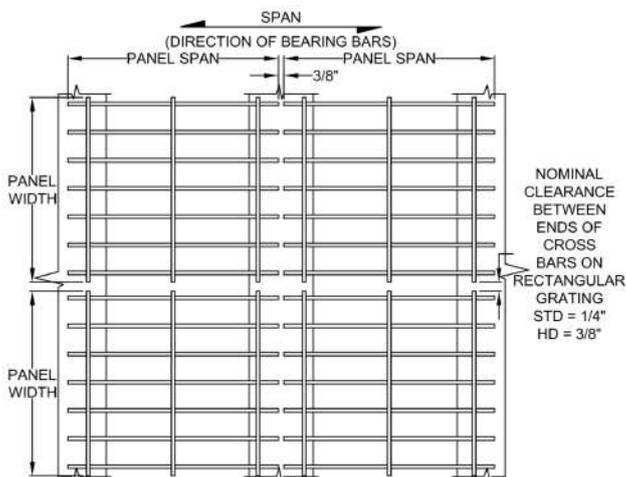
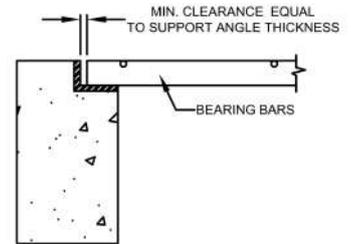
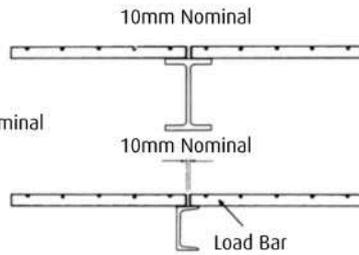
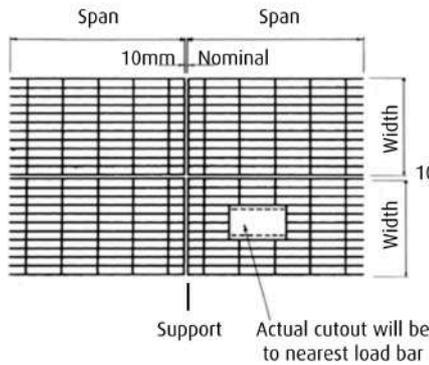
Cross Bar & Bearing Bar Lean



Welding Tolerance: Plate Bar Lean



Installation Guide



STAIR TREAD



WT1
Welded Fixing
No Nosing



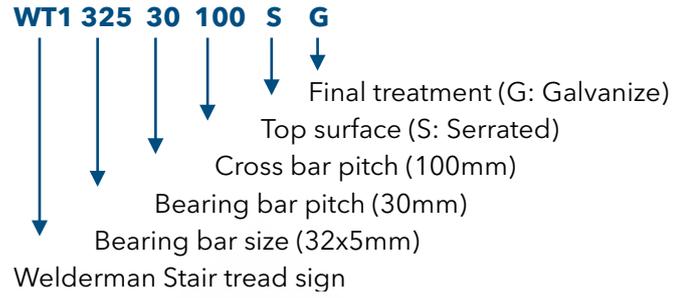
WT2
Bolted fixing
No Nosing



WT3
Welded Fixing
Chequer Plate Nosing



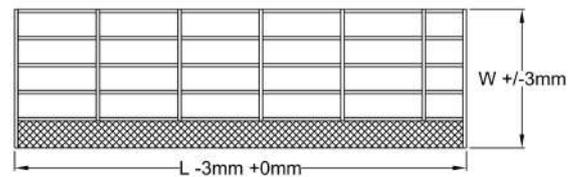
WT4
Bolted Fixing
Chequer Plate Nosing



How to order Welderman Stair tread?

- Choose the standard one or inform us your design
- Select tread type from pictures
- Define required pitch and Bearing bar size
- Specify length and width

Ex: WT4 325/30/100/S/G

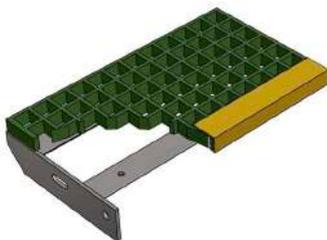


Tread Length and Width Tolerance

RECOMMEND MAXIMUM LENGTH AND WIDTH FOR STANDARD A GRATING PATTERN

Grating Pitch	Bearing Bar Size in mm			Recommended Maximum Length & Width
	25X5	32x5	50x5	
Pitch 30/100	900	1300	1800	Max Length
Pitch 30/100	170	250	285	Max Width

Welderman stair treads are available in a variety of grating profiles and tread types. We can manufacture according customer need



WT5
FRP Stair Tread
Bolted Fixing
Fiber Glass Anti Slip Abrasive
Nosing

Bearing Bar 38x7mm
Mesh Size 38x38mm

875 maximum length

Available in



Usage: Galvanized Grating
Industrial Staircase

DRAINAGE PRODUCTS

TRENCH-MANHOLE COVER & GRATES

Choose your load

Welderman Civil drainage range, including sump grates, trench grates and access covers are available to suit the complete range of International Standard Strength Classifications, depending on your project requirements. Below is the load range to each product for the specified project. Choose your load range according project requirement.

WMR01

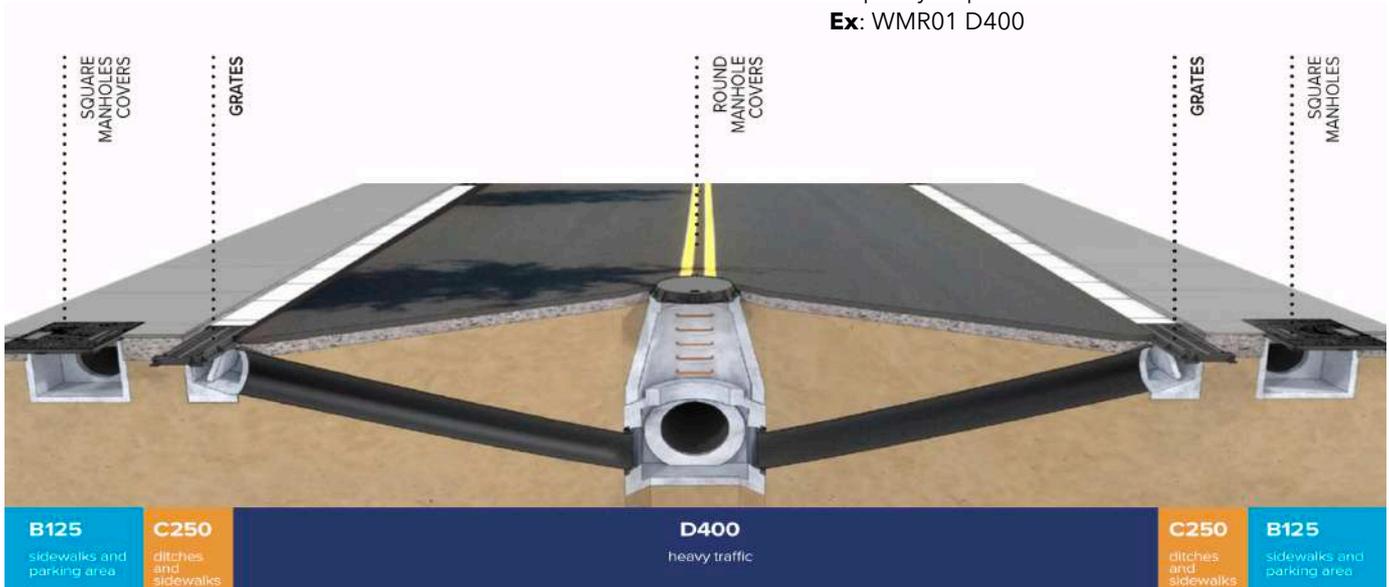
D400

↓ ↓
Load resistance B125/C250/D400
Welderman drainage product code

How to order Welderman drainage product?

- Choose the product according to its code
- Select load type
- Specify required size

Ex: WMR01 D400



- B125** Pedestrian areas and sidewalks (Light duty)
- C250** Roadside areas and parkings (Medium duty)
- D400** Heavy and normal traffic zones (Heavy duty)
- E600** Port areas

Grating Trench Cover WGT01

- Steel Grating*
- 25, 32, 40, 50 (mm) Height



B125	D400
C250	E600

Radial Trench Cover WGT02

- Steel Grating
- 25, 32, 40, 50 (mm) Height



B125	D400
C250	

Hinged Manhole Cover WMR01

- Ductile Iron
- 100mm Height
- 12mm Thickness



B125	D400
C250	E600

Square Framed cover WMR02

- Ductile Iron
- 70mm Height
- 12mm Thickness



B125	D400
C250	E600



**Drainage Pit
WGT03**

- Steel Grating
- 25, 32, 40, 50 (mm) Height

B125 **D400**

C250



**Cast Iron Grate
WCT01**

- Cast Iron
- 30mm Height
- 30mm Thickness

B125 **D400**

C250



**Bike Safe Grate
WCT02**

- Ductile Iron
- 30/50mm Height
- 30/50mm Thickness

B125 **D400**

C250



**XL Bike Safe
Grate WCT03**

- Ductile Iron
- 30/50mm Height
- 30/50mm Thickness

B125 **D400**

C250



**Grill With Frame
WCG01**

- Cast Iron
- 50/70mm Height
- 30mm Thickness

B125 **D400**

C250

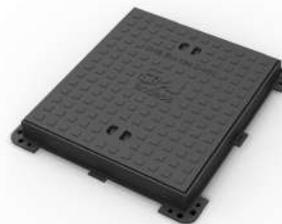


**Ring Manhole
Cover WMR03**

- Ductile Iron
- 70mm Height
- 12mm Thickness

B125 **D400**

C250 **E600**



**Telecom Manhole
Cover WMS01**

- Ductile Iron
- 70mm Height
- 12mm Thickness

B125 **D400**

C250



**Telecom Manhole
Cover WMS02**

- Ductile Iron
- 155mm Height
- 12mm Thickness

B125 **D400**

C250



**Telecom Manhole
Cover WMS03**

- Ductile Iron
- 155mm Height
- 12mm Thickness

B125 **D400**

C250



**Unhinged
Manhole Cover
WMR04**

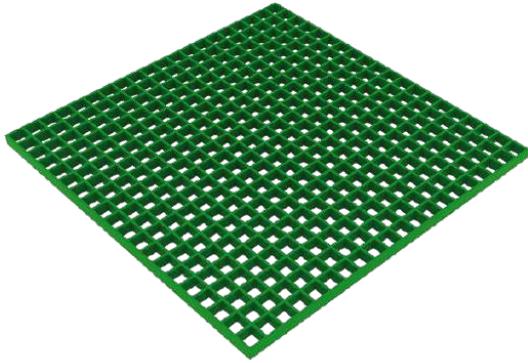
- Ductile Iron
- 70mm Height
- 12mm Thickness

B125 **D400**

C250

Moulded FRP/GRP Grating

Moulded GRP-gratings are produced in a negative mould. The the glass fibers are woven in a bond into the form. The resin mix is produced in a mixing tool. The mix consist of the following resins: Isophthalic resin, color pigments additives for fire behavior and UV-inhibitors. The mix is then also poured into the mould, the glass fibers are pressed once more with a comb and the mould gets heated. Heating hardens the material. When the grating has cooled down, it is pressed out of the mould.



FRP Grating	Bar tHeight	Bar Thickness	Mesh Size	Top Surface Plain/Sanded	Standard Size
WF2563838P	25	6.5/5	38x38	P/S	1000x4000
WF3873838P	38	7/5	38x38	P/S	1220x3660 1000x4000
WF50753838P	50	9,5/7,5	38x38	P/S	1230x4000
WF50853838P	50	8/5	50x50	P/S	1220x4000

* All measurements are in millimeter

Available Colors



Material

Isophthalic Polyester Resin
Vinyl Ester Resin
Phenolic Resin

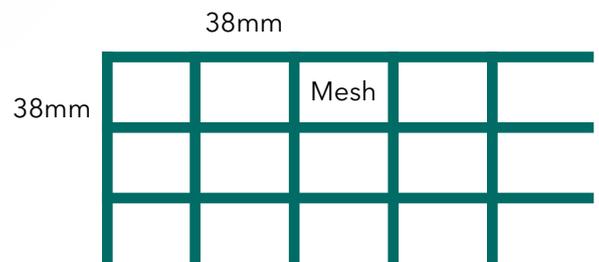
Top Surface Treatment

FRP grating is provided with an anti-skid Grit or Sanded (S) surface as standard. This is a coarse grit that is embedded into the top surface of the grating. A plain (P) top surface is available on request.

FRP Grating features

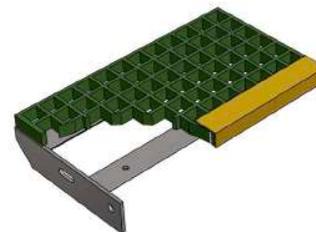
- high corrosion and weather resistance
- high chemical resistance
- hygienic and resistant to bacteria
- the gratings are load bearing in the direction of the supporting rods and the crossbars
- does not conduct electricity
- low thermal diffusivity
- Anti-slip up to R13
- relatively low unladen weight
- simple and quick on-site assembly
- high levels of comfort for walking and standing

Standard FRP Grating Pattern



- Bearing bar pitch 38mm (center to center)

FRP Stair Tread



WT5

FRP Stair Tread

Bolted Fixing
Fiber Glass Anti Slip
Abrasive Nosing

Bearing Bar 38x7mm
Mesh Size 38x38mm

875 maximum length

Available in



LOAD TABLE : MAXIMUM RECOMMENDED SPAN

Table of Safe Load Heavy Duty Grating With Bearing Bar pitch at 30mm

Grating Type	Bearing Bar Size mm	Bearing Bar Pitch mm	Cross Bar Pitch mm	LOAD/ DEFLECTION	Clear Span (mm)										
					200	400	600	800	1000	1200	1400	1600	1800	2000	
W25530100	25x5	30	100	U	590										
				D	0,22										
				C	59										
W32530100	32x5	30	100	U	967										
				D	0,17										
				C	96										
W40530100	40x5	30	100	U	1511										
				D	0,14										
				C	151										
W50530100	50x5	30	100	U	2361										
				D	0,11										
				C	236										
W65530100	65x5	30	100	U	3990	997	443	249	159	110	81	62	49	39	
				D	0,08	0,34	0,76	1,35	2,11	3,06	4,21	5,43	6,98	8,54	
				C	399	199	133	99	79	66	57	49	44	39	

METRIC LEGEND

- U = Safe Uniform Load (kPa)
- C = Safe Concentrated Load (kN/meter of Grating Width)
- D = Deflection (mm)

