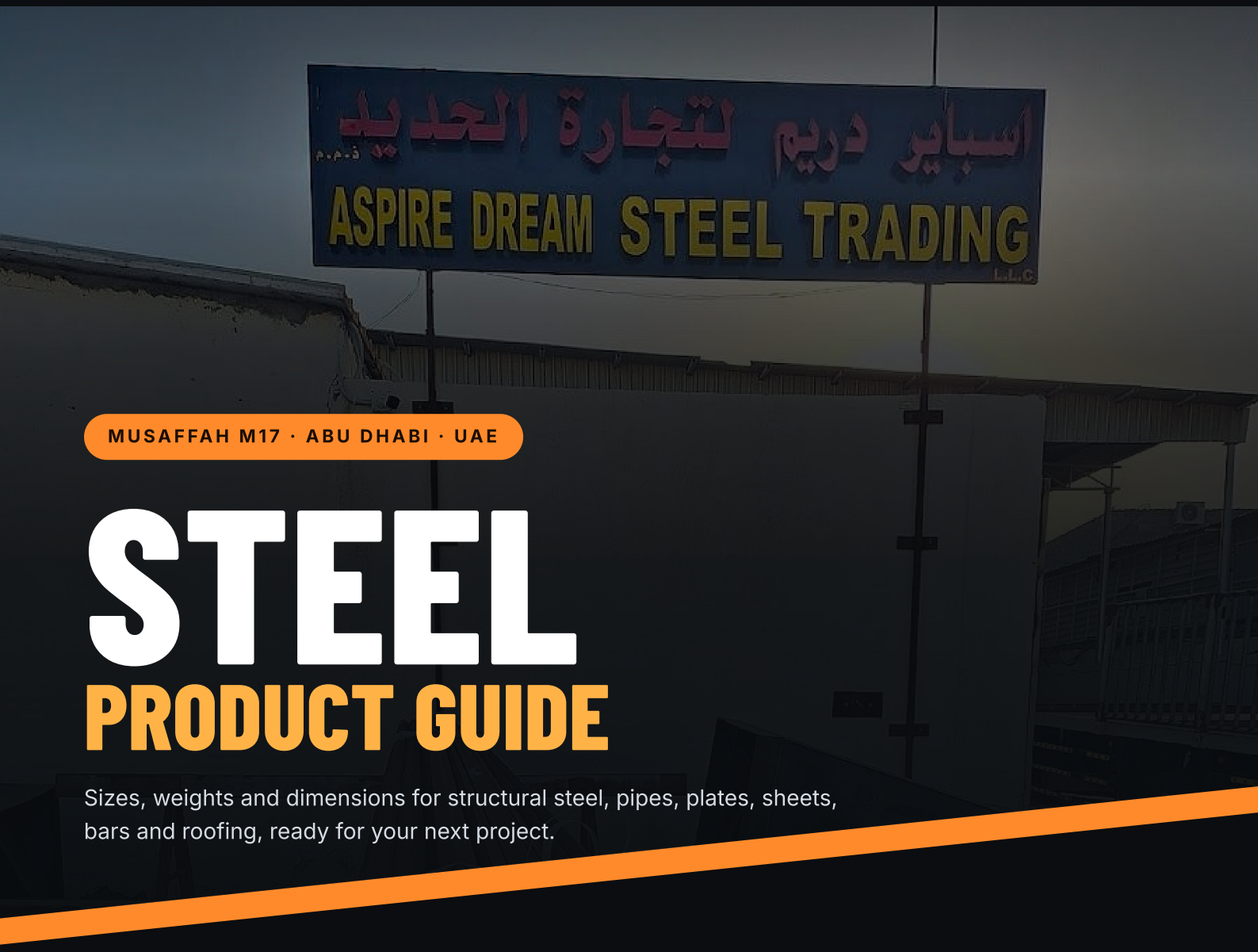
ASPIRE DREAM
STEEL TRADING LLC

EDITION
2026



MUSAFFAH M17 · ABU DHABI · UAE

STEEL
PRODUCT GUIDE

Sizes, weights and dimensions for structural steel, pipes, plates, sheets, bars and roofing, ready for your next project.

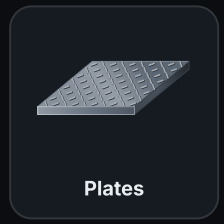

Beams


Channels


Angles


Pipes


Hollow sections


Plates

34
product families

1000+
standard sizes

⅛"–48"
pipe chart, every schedule

0.4–100
mm sheets & plates

READY STOCK ◆ CUT-TO-SIZE ON REQUEST ◆ ON-TIME DELIVERY TO YOUR SITE

WHATSAPP & CALL
+971 50 213 2786

EMAIL
steel@aspire-power.com

YARD
Musaffah Industrial M17, Abu Dhabi

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WHO WE ARE

YOUR STEEL PARTNER IN MUSAFFAH.

Aspire Dream Steel Trading LLC is a steel distributor in Musaffah Industrial Area (M17), Abu Dhabi. We stock the structural sections, plates, sheets, pipes and roofing materials that contractors, fabricators and maintenance teams use every day, and cut to size on request.

We are the sister company of **Aspire Mechanical & Electrical Services LLC**, an Abu Dhabi engineering company founded in March 2014 (ISO 9001, ISO 14001, ISO 45001 and ADNOC ICV certified).

Ready stock
Sections and sheets on hand in Musaffah

Cut-to-size
Standard lengths or your exact sizes

Checked before dispatch
Thickness, straightness and surface

On-time delivery
Phased or bulk, planned around your site

HOW TO USE THIS GUIDE

1. Find your product on the Contents page (page 2).
2. Tap its name to jump there, or type the page number into your PDF viewer.
3. Check the size and weight in the table.
4. Send us the size and quantity on WhatsApp: +971 50 213 2786.

SECTION 1

OUR PRODUCT RANGE

STRUCTURAL SECTIONS

6 products



H-BEAMS

Wide-flange sections for columns and heavy frames.

- Mild steel
- Standard mill lengths
- Cut-to-size on request



I-BEAMS

Narrow-flange beams for floors, lintels and roof frames.

- Mild steel
- Standard mill lengths
- Cut-to-size on request



STEEL CHANNELS

U / C-channels for frames, trailers and supports.

- Mild steel
- Multiple sizes
- Cut-to-size on request



EQUAL & UNEQUAL ANGLES

L-sections for bracing, brackets and frames.

- Equal & unequal legs
- Mild steel
- Multiple thicknesses



T-BARS (TEE SECTIONS)

Tee sections for stiffeners, frames and glazing bars.

- Mild steel
- Standard lengths
- Cut-to-size on request



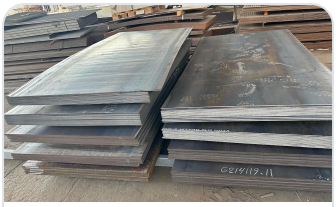
G.I. Z-PURLINS

200 mm galvanized purlins for roofs and walls.

- 200 × 1.5 mm
- 200 × 1.8 mm
- Galvanized

PLATES, SHEETS & GRATINGS

6 products



M.S. PLATES

Plain mild steel plates in multiple thicknesses.

- Plain finish
- Multiple thicknesses
- Cut-to-size on request



M.S. CHEQUERED PLATES

Anti-slip plates for floors, stairs and ramps.

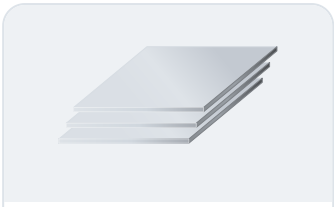
- Raised anti-slip pattern
- Mild steel
- Multiple thicknesses



G.I. SHEETS

Galvanized plain sheets, including odd sizes.

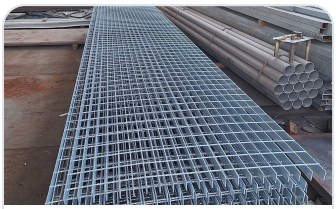
- Galvanized
- Standard & odd sizes
- Multiple thicknesses



STAINLESS STEEL SHEETS

Grade 304 and 316L for wet and corrosive areas.

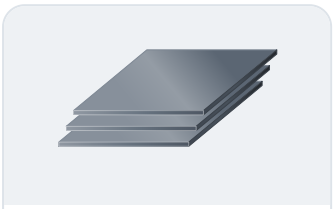
- Grade 304
- Grade 316L
- Corrosion resistant



G.I. GRATINGS

Galvanized gratings for platforms and walkways.

- Galvanized
- Open-grid design
- Sizes on request



HR / CR SHEETS & COILS

Hot rolled and cold rolled sheets, cut from coil.

- 0.4 – 6 mm
- HR & CR
- Cut to length

PIPES & TUBES

4 products



M.S. PIPES

Schedule 40, 80 and 160. Seamless and E.R.W.

- SCH 40 / SCH 80 / SCH 160
- Seamless & E.R.W.
- Multiple sizes



SQUARE & RECTANGULAR HOLLOW SECTIONS

SHS / RHS tubes for frames, gates and structures.

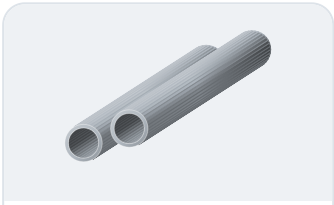
- SHS & RHS
- Mild steel
- Multiple wall thicknesses



GALVANIZED PIPES

G.I. pipes in Class A, B and C.

- Class A, B & C
- Galvanized
- Multiple sizes



SCAFFOLDING TUBES

M.S. and galvanized scaffolding tubes.

- M.S. & galvanized
- Standard lengths
- Bulk supply

BARS

3 products



FLAT BARS

Mild steel flats for brackets, frames and fabrication.

Mild steel

Multiple widths & thicknesses

Cut-to-size on request



ROUND BARS & SHAFT BARS

Plain round bars and shafting for machining.

M.S. plain round

Shaft bars

Multiple diameters



SQUARE BARS

Solid square bars for gates, grilles and machining.

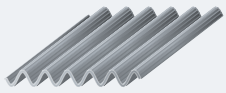
Mild steel

Multiple sizes

Cut-to-size on request

ROOFING & CLADDING

4 products



G.I. CORRUGATED SHEETS

Galvanized corrugated sheets for roofs and walls.

Galvanized

Corrugated profile

Multiple lengths



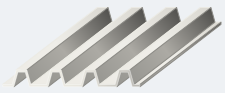
PREPAINTED G.I. ROOFING SHEETS

1050 mm single-skin sheets in four colours.

1050 × 0.4 mm

1050 × 0.5 mm

Single skin



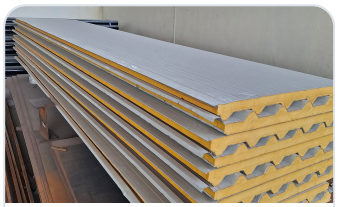
PREPAINTED ALUMINIUM SHEETS

1050 mm single-skin aluminium profile sheets.

1050 × 0.5 mm

1050 × 0.7 mm

Single skin



SANDWICH PANELS

Insulated panels in galvanized and aluminium.

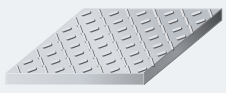
Galvanized & aluminium

Insulated core

Four colours

ALUMINIUM

2 products



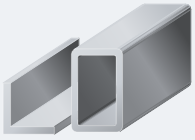
ALUMINIUM PLATES

Plain, corrugated and chequered plates.

Plain

Corrugated

Chequered



ALUMINIUM SECTIONS

SHS, RHS, angles and channels in aluminium.

SHS & RHS

Angles

Channels

FENCING, MESH & WIRE

3 products



G.I. BINDING WIRE

Galvanized binding and fencing wire in coils.

Ø 1.6 – 6 mm

Soft & medium tensile

In coils



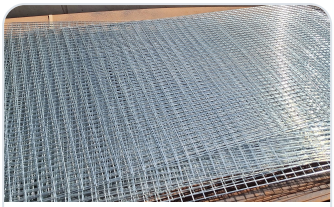
PVC COATED CHAIN LINK FENCE

Green PVC-coated chain link mesh rolls with tie wire.

PVC coated

Green colour

Supplied in rolls



WELDED WIRE MESH

Galvanized welded mesh in flat panels and rolls.

Galvanized

Panels & rolls

Multiple mesh sizes

SECTIONS 2 – 35

SIZES & WEIGHTS

Weights are theoretical for mild steel (7,850 kg/m³) unless stated. Beam and channel weights are standard catalogue values. Actual mill weights can vary slightly; other sizes are available on request.

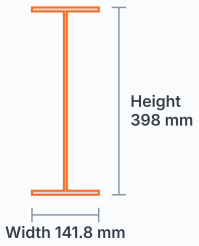
BEAMS & COLUMNS

8 tables

01 UNIVERSAL BEAMS (UB)

BS 4-1 universal beams for floor beams, rafters and long spans.





Example: 406×140×39

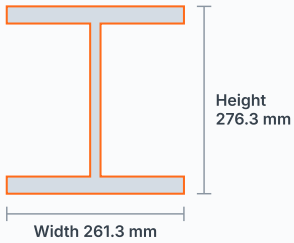
Size	Height (mm)	Flange width (mm)	Web thickness (mm)	Flange thickness (mm)	Weight (kg/m)
127×76×13	127	76	4	7.6	**13**
152×89×16	152.4	88.7	4.5	7.7	**16**
178×102×19	177.8	101.2	4.8	7.9	**19**
203×102×23	203.2	101.8	5.4	9.3	**23**
203×133×25	203.2	133.2	5.7	7.8	**25**
203×133×30	206.8	133.9	6.4	9.6	**30**
254×102×22	254	101.6	5.7	6.8	**22**
254×102×25	257.2	101.9	6	8.4	**25**
254×102×28	260.4	102.2	6.3	10	**28**
254×146×31	251.4	146.1	6	8.6	**31**
254×146×37	256	146.4	6.3	10.9	**37**
254×146×43	259.6	147.3	7.2	12.7	**43**
305×102×25	305.1	101.6	5.8	7	**25**
305×102×28	308.7	101.8	6	8.8	**28**
305×102×33	312.7	102.4	6.6	10.8	**33**
305×127×37	304.4	123.4	7.1	10.7	**37**
305×127×42	307.2	124.3	8	12.1	**42**
305×127×48	311	125.3	9	14	**48**
305×165×40	303.4	165	6	10.2	**40**
305×165×46	306.6	165.7	6.7	11.8	**46**
305×165×54	310.4	166.9	7.9	13.7	**54**
356×127×33	349	125.4	6	8.5	**33**
356×127×39	353.4	126	6.6	10.7	**39**
356×171×45	351.4	171.1	7	9.7	**45**
356×171×51	355	171.5	7.4	11.5	**51**
356×171×57	358	172.2	8.1	13	**57**
356×171×67	363.4	173.2	9.1	15.7	**67**
406×140×39	398	141.8	6.4	8.6	**39**

Size	Height (mm)	Flange width (mm)	Web thickness (mm)	Flange thickness (mm)	Weight (kg/m)
406×140×46	403.2	142.2	6.8	11.2	**46**
406×178×54	402.6	177.7	7.7	10.9	**54**
406×178×60	406.4	177.9	7.9	12.8	**60**
406×178×67	409.4	178.8	8.8	14.3	**67**
406×178×74	412.8	179.5	9.5	16	**74**
457×152×52	449.8	152.4	7.6	10.9	**52**
457×152×60	454.6	152.9	8.1	13.3	**60**
457×152×67	458	153.8	9	15	**67**
457×191×67	453.4	189.9	8.5	12.7	**67**
457×191×74	457	190.4	9	14.5	**74**
457×191×82	460	191.3	9.9	16	**82**
457×191×89	463.4	191.9	10.5	17.7	**89**
457×191×98	467.2	192.8	11.4	19.6	**98**
533×210×82	528.3	208.8	9.6	13.2	**82**
533×210×92	533.1	209.3	10.1	15.6	**92**
533×210×101	536.7	210	10.8	17.4	**101**
533×210×109	539.5	210.8	11.6	18.8	**109**
533×210×122	544.5	211.9	12.7	21.3	**122**
610×229×101	602.6	227.6	10.5	14.8	**101**
610×229×113	607.6	228.2	11.1	17.3	**113**
610×229×125	612.2	229	11.9	19.6	**125**
610×229×140	617.2	230.2	13.1	22.1	**140**
610×305×149	612.4	304.8	11.8	19.7	**149**
686×254×125	677.9	253	11.7	16.2	**125**
686×254×140	683.5	253.7	12.4	19	**140**
762×267×147	754	265.2	12.8	17.5	**147**
762×267×173	762.2	266.7	14.3	21.6	**173**

02 UNIVERSAL COLUMNS (UC)

BS 4-1 universal columns for columns and heavy frames.





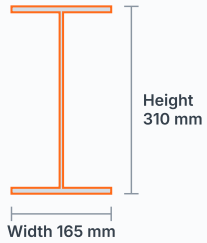
Example: 254×254×132

Size	Height (mm)	Flange width (mm)	Web thickness (mm)	Flange thickness (mm)	Weight (kg/m)
152×152×23	152.4	152.2	5.8	6.8	**23**
152×152×30	157.6	152.9	6.5	9.4	**30**
152×152×37	161.8	154.4	8	11.5	**37**
203×203×46	203.2	203.6	7.2	11	**46**
203×203×52	206.2	204.3	7.9	12.5	**52**
203×203×60	209.6	205.8	9.4	14.2	**60**
203×203×71	215.8	206.4	10	17.3	**71**
203×203×86	222.2	209.1	12.7	20.5	**86**
254×254×73	254.1	254.6	8.6	14.2	**73**
254×254×89	260.3	256.3	10.3	17.3	**89**
254×254×107	266.7	258.8	12.8	20.5	**107**
254×254×132	276.3	261.3	15.3	25.3	**132**
254×254×167	289.1	265.2	19.2	31.7	**167**
305×305×97	307.9	305.3	9.9	15.4	**97**
305×305×118	314.5	307.4	12	18.7	**118**
305×305×137	320.5	309.2	13.8	21.7	**137**
305×305×158	327.1	311.2	15.8	25	**158**
305×305×198	339.9	314.5	19.1	31.4	**198**
356×368×129	355.6	368.6	10.4	17.5	**129**
356×368×153	362	370.5	12.3	20.7	**153**
356×368×177	368.2	372.6	14.4	23.8	**177**
356×368×202	374.6	374.7	16.5	27	**202**

03 AMERICAN WIDE FLANGE (W)

ASTM A6 wide-flange W-shapes (designation in inches × lb/ft).





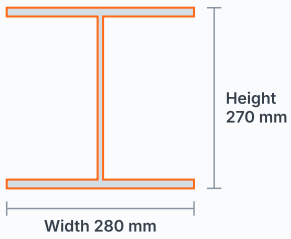
Example: W12×26

Size	Height (mm)	Flange width (mm)	Web thickness (mm)	Flange thickness (mm)	Weight (kg/m)
W4×13	106	103	7.1	8.8	**19.3**
W6×9	150	100	4.3	5.5	**13.5**
W6×12	153	102	5.8	7.1	**18**
W6×15	152	152	5.8	6.6	**22.5**
W8×10	200	100	4.3	5.2	**15**
W8×13	203	102	5.8	6.5	**19.3**
W8×18	207	133	5.8	8.4	**26.6**
W8×24	201	165	6.2	10.2	**35.9**
W8×31	203	203	7.2	11	**46.1**
W10×12	251	101	4.8	5.3	**17.9**
W10×22	259	146	6.1	9.1	**32.7**
W10×33	247	202	7.4	11	**49.1**
W10×49	253	254	8.6	14.2	**73**
W12×14	303	101	5.1	5.7	**21**
W12×26	310	165	5.8	9.7	**38.7**
W12×40	303	203	7.5	13.1	**59.5**
W12×65	308	305	9.9	15.4	**96.7**
W14×22	349	127	5.8	8.5	**32.9**
W14×30	352	171	6.9	9.8	**44.6**
W14×48	350	204	8.6	15.1	**71.4**
W16×26	399	140	6.4	8.8	**38.8**
W16×40	407	178	7.7	12.8	**59.8**
W18×35	450	152	7.6	10.8	**52.1**
W18×50	457	190	9	14.5	**74.4**
W21×44	525	165	8.9	11.4	**65.5**
W21×62	533	209	10.2	15.6	**92.3**
W24×55	599	178	10	12.8	**81.9**
W24×76	608	228	11.2	17.3	**113**

04 EUROPEAN BEAMS (HEA)

Light wide-flange H-beams for columns and frames.





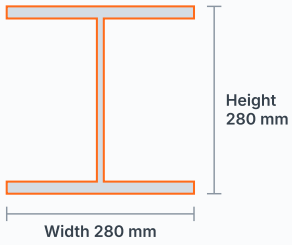
Example: HEA 280

Size	Height (mm)	Flange width (mm)	Web thickness (mm)	Flange thickness (mm)	Weight (kg/m)
HEA 100	96	100	5	8	**16.7**
HEA 120	114	120	5	8	**19.9**
HEA 140	133	140	5.5	8.5	**24.7**
HEA 160	152	160	6	9	**30.4**
HEA 180	171	180	6	9.5	**35.5**
HEA 200	190	200	6.5	10	**42.3**
HEA 220	210	220	7	11	**50.5**
HEA 240	230	240	7.5	12	**60.3**
HEA 260	250	260	7.5	12.5	**68.2**
HEA 280	270	280	8	13	**76.4**
HEA 300	290	300	8.5	14	**88.3**
HEA 320	310	300	9	15.5	**97.6**
HEA 340	330	300	9.5	16.5	**105**
HEA 360	350	300	10	17.5	**112**
HEA 400	390	300	11	19	**125**
HEA 450	440	300	11.5	21	**140**
HEA 500	490	300	12	23	**155**
HEA 600	590	300	13	25	**178**

05 EUROPEAN BEAMS (HEB)

Heavy wide-flange H-beams for columns and heavy structures.





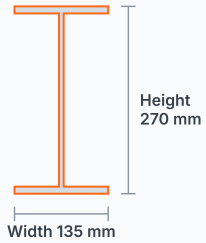
Example: HEB 280

Size	Height (mm)	Flange width (mm)	Web thickness (mm)	Flange thickness (mm)	Weight (kg/m)
HEB 100	100	100	6	10	**20.4**
HEB 120	120	120	6.5	11	**26.7**
HEB 140	140	140	7	12	**33.7**
HEB 160	160	160	8	13	**42.6**
HEB 180	180	180	8.5	14	**51.2**
HEB 200	200	200	9	15	**61.3**
HEB 220	220	220	9.5	16	**71.5**
HEB 240	240	240	10	17	**83.2**
HEB 260	260	260	10	17.5	**93**
HEB 280	280	280	10.5	18	**103**
HEB 300	300	300	11	19	**117**
HEB 320	320	300	11.5	20.5	**127**
HEB 340	340	300	12	21.5	**134**
HEB 360	360	300	12.5	22.5	**142**
HEB 400	400	300	13.5	24	**155**
HEB 450	450	300	14	26	**171**
HEB 500	500	300	14.5	28	**187**
HEB 600	600	300	15.5	30	**212**

06 EUROPEAN BEAMS (IPE)

Parallel-flange I-beams for floor beams, lintels and roof framing.





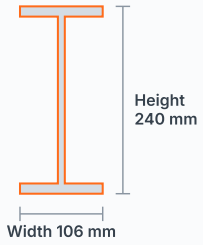
Example: IPE 270

Size	Height (mm)	Flange width (mm)	Web thickness (mm)	Flange thickness (mm)	Weight (kg/m)
IPE 100	100	55	4.1	5.7	**8.1**
IPE 120	120	64	4.4	6.3	**10.4**
IPE 140	140	73	4.7	6.9	**12.9**
IPE 160	160	82	5	7.4	**15.8**
IPE 180	180	91	5.3	8	**18.8**
IPE 200	200	100	5.6	8.5	**22.4**
IPE 220	220	110	5.9	9.2	**26.2**
IPE 240	240	120	6.2	9.8	**30.7**
IPE 270	270	135	6.6	10.2	**36.1**
IPE 300	300	150	7.1	10.7	**42.2**
IPE 330	330	160	7.5	11.5	**49.1**
IPE 360	360	170	8	12.7	**57.1**
IPE 400	400	180	8.6	13.5	**66.3**
IPE 450	450	190	9.4	14.6	**77.6**
IPE 500	500	200	10.2	16	**90.7**
IPE 550	550	210	11.1	17.2	**106**
IPE 600	600	220	12	19	**122**

07 EUROPEAN STANDARD BEAMS (IPN)

Taper-flange I-beams (DIN 1025-1). Shown with parallel flanges in 3D.



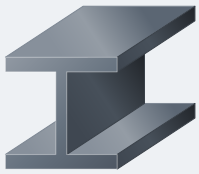


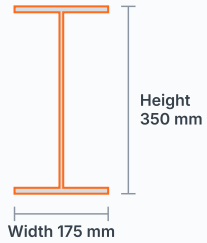
Example: IPN 240

Size	Height (mm)	Flange width (mm)	Web thickness (mm)	Flange thickness (mm)	Weight (kg/m)
IPN 80	80	42	3.9	5.9	**5.94**
IPN 100	100	50	4.5	6.8	**8.34**
IPN 120	120	58	5.1	7.7	**11.1**
IPN 140	140	66	5.7	8.6	**14.3**
IPN 160	160	74	6.3	9.5	**17.9**
IPN 180	180	82	6.9	10.4	**21.9**
IPN 200	200	90	7.5	11.3	**26.2**
IPN 220	220	98	8.1	12.2	**31.1**
IPN 240	240	106	8.7	13.1	**36.2**
IPN 260	260	113	9.4	14.1	**41.9**
IPN 280	280	119	10.1	15.2	**47.9**
IPN 300	300	125	10.8	16.2	**54.2**
IPN 320	320	131	11.5	17.3	**61**
IPN 340	340	137	12.2	18.3	**68**
IPN 360	360	143	13	19.5	**76.1**
IPN 380	380	149	13.7	20.5	**84**
IPN 400	400	155	14.4	21.6	**92.4**

08 JIS WIDE FLANGE (H)

JIS G3192 wide-flange H-sections.





Example: H 350×175

Size	Height (mm)	Flange width (mm)	Web thickness (mm)	Flange thickness (mm)	Weight (kg/m)
H 100×100	100	100	6	8	**17.2**
H 125×125	125	125	6.5	9	**23.8**
H 150×75	150	75	5	7	**14**
H 150×150	150	150	7	10	**31.5**
H 175×175	175	175	7.5	11	**40.2**
H 200×100	200	100	5.5	8	**21.3**
H 200×200	200	200	8	12	**49.9**
H 250×125	250	125	6	9	**29.6**
H 250×250	250	250	9	14	**72.4**
H 300×150	300	150	6.5	9	**36.7**
H 300×300	300	300	10	15	**94**
H 350×175	350	175	7	11	**49.6**
H 350×350	350	350	12	19	**137**
H 400×200	400	200	8	13	**66**
H 400×400	400	400	13	21	**172**
H 450×200	450	200	9	14	**76**
H 500×200	500	200	10	16	**89.6**
H 588×300	588	300	12	20	**151**
H 600×200	600	200	11	17	**106**
H 700×300	700	300	13	24	**185**
H 800×300	800	300	14	26	**210**
H 900×300	900	300	16	28	**243**

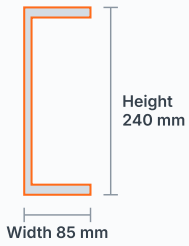
CHANNELS

3 tables

09 EUROPEAN CHANNELS (UPN)

Taper-flange channels (DIN 1026-1) for frames, stringers and supports.





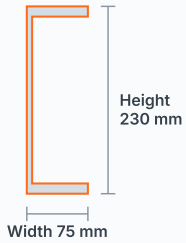
Example: UPN 240

Size	Height (mm)	Flange width (mm)	Web thickness (mm)	Flange thickness (mm)	Weight (kg/m)
UPN 80	80	45	6	8	**8.64**
UPN 100	100	50	6	8.5	**10.6**
UPN 120	120	55	7	9	**13.4**
UPN 140	140	60	7	10	**16**
UPN 160	160	65	7.5	10.5	**18.8**
UPN 180	180	70	8	11	**22**
UPN 200	200	75	8.5	11.5	**25.3**
UPN 220	220	80	9	12.5	**29.4**
UPN 240	240	85	9.5	13	**33.2**
UPN 260	260	90	10	14	**37.9**
UPN 280	280	95	10	15	**41.8**
UPN 300	300	100	10	16	**46.2**
UPN 320	320	100	14	17.5	**59.5**
UPN 350	350	100	14	16	**60.6**
UPN 380	380	102	13.5	16	**63.1**
UPN 400	400	110	14	18	**71.8**

10 PARALLEL FLANGE CHANNELS (PFC)

BS 4-1 parallel flange channels for frames, trimmers and bracing.





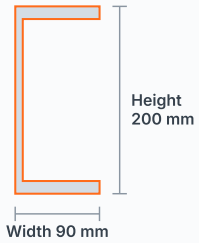
Example: PFC 230×75×26

Size	Height (mm)	Flange width (mm)	Web thickness (mm)	Flange thickness (mm)	Weight (kg/m)
PFC 100×50×10	100	50	5	8.5	**10.2**
PFC 125×65×15	125	65	5.5	9.5	**14.8**
PFC 150×75×18	150	75	5.5	10	**17.9**
PFC 150×90×24	150	90	6.5	12	**23.9**
PFC 180×75×20	180	75	6	10.5	**20.3**
PFC 180×90×26	180	90	6.5	12.5	**26.1**
PFC 200×75×23	200	75	6	12.5	**23.4**
PFC 200×90×30	200	90	7	14	**29.7**
PFC 230×75×26	230	75	6.5	12.5	**25.7**
PFC 230×90×32	230	90	7.5	14	**32.2**
PFC 260×75×28	260	75	7	12	**27.6**
PFC 260×90×35	260	90	8	14	**34.8**
PFC 300×90×41	300	90	9	15.5	**41.4**
PFC 300×100×46	300	100	9	16.5	**45.5**
PFC 380×100×54	380	100	9.5	17.5	**54**
PFC 430×100×64	430	100	11	19	**64.4**

11 JIS CHANNELS

JIS G3192 channels for frames and supports.



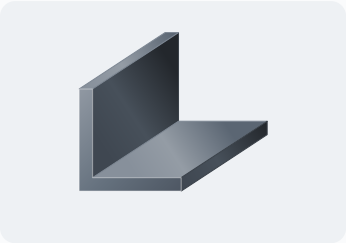


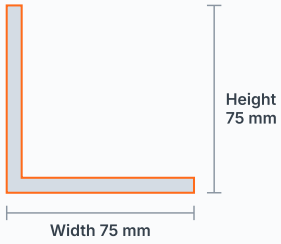
Example: C 200×90

Size	Height (mm)	Flange width (mm)	Web thickness (mm)	Flange thickness (mm)	Weight (kg/m)
C 75×40	75	40	5	7	**6.92**
C 100×50	100	50	5	7.5	**9.36**
C 125×65	125	65	6	8	**13.4**
C 150×75×6.5	150	75	6.5	10	**18.6**
C 150×75×9	150	75	9	12.5	**24**
C 180×75	180	75	7	10.5	**21.4**
C 200×80	200	80	7.5	11	**24.6**
C 200×90	200	90	8	13.5	**30.3**
C 250×90×9	250	90	9	13	**34.6**
C 250×90×11	250	90	11	14.5	**40.2**
C 300×90×9	300	90	9	13	**38.1**
C 300×90×10	300	90	10	15.5	**43.8**
C 300×90×12	300	90	12	16	**48.6**
C 380×100×10.5	380	100	10.5	16	**54.5**
C 380×100×13	380	100	13	20	**67.3**

12 EQUAL ANGLES

Equal-leg angles (BS EN 10056) for bracing, brackets and frames.





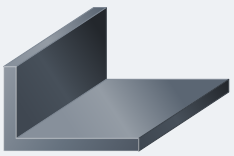
Example: L 75×75×6

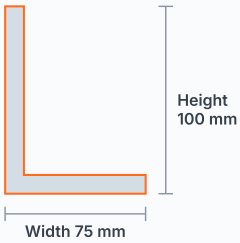
Size	Leg length (mm)	Thickness (mm)	Weight (kg/m)
L 20×20×3	20	3	0.87
L 25×25×3	25	3	1.11
L 25×25×4	25	4	1.44
L 25×25×5	25	5	1.77
L 30×30×3	30	3	1.34
L 30×30×4	30	4	1.76
L 30×30×5	30	5	2.16
L 40×40×4	40	4	2.39
L 40×40×5	40	5	2.94
L 40×40×6	40	6	3.49
L 45×45×4.5	45	4.5	3.02
L 45×45×5	45	5	3.34
L 50×50×5	50	5	3.73
L 50×50×6	50	6	4.43
L 50×50×8	50	8	5.78
L 60×60×5	60	5	4.51
L 60×60×6	60	6	5.37
L 60×60×8	60	8	7.03
L 60×60×10	60	10	8.64
L 65×65×6	65	6	5.84
L 65×65×8	65	8	7.66
L 70×70×6	70	6	6.31
L 70×70×7	70	7	7.31
L 70×70×8	70	8	8.29
L 75×75×6	75	6	6.78
L 75×75×8	75	8	8.92
L 75×75×10	75	10	10.99
L 75×75×12	75	12	13
L 80×80×8	80	8	9.55

Size	Leg length (mm)	Thickness (mm)	Weight (kg/m)
L 80×80×10	80	10	11.78
L 90×90×7	90	7	9.51
L 90×90×8	90	8	10.8
L 90×90×10	90	10	13.35
L 90×90×12	90	12	15.83
L 100×100×8	100	8	12.06
L 100×100×10	100	10	14.92
L 100×100×12	100	12	17.71
L 100×100×15	100	15	21.78
L 120×120×10	120	10	18.06
L 120×120×12	120	12	21.48
L 120×120×15	120	15	26.49
L 150×150×10	150	10	22.77
L 150×150×12	150	12	27.13
L 150×150×15	150	15	33.56
L 150×150×18	150	18	39.85
L 200×200×16	200	16	48.23
L 200×200×18	200	18	53.98
L 200×200×20	200	20	59.66
L 200×200×24	200	24	70.84

13 UNEQUAL ANGLES

Unequal-leg angles (BS EN 10056) for lintels, brackets and framing.





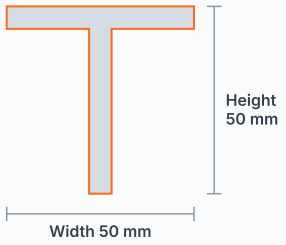
Example: L 100×75×10

Size	Long leg (mm)	Short leg (mm)	Thickness (mm)	Weight (kg/m)
L 40×25×4	40	25	4	1.92
L 45×30×4	45	30	4	2.23
L 50×30×5	50	30	5	2.94
L 60×30×5	60	30	5	3.34
L 60×40×5	60	40	5	3.73
L 60×40×6	60	40	6	4.43
L 65×50×5	65	50	5	4.32
L 75×50×6	75	50	6	5.6
L 75×50×8	75	50	8	7.35
L 80×40×6	80	40	6	5.37
L 80×40×8	80	40	8	7.03
L 80×60×7	80	60	7	7.31
L 100×50×6	100	50	6	6.78
L 100×50×8	100	50	8	8.92
L 100×65×7	100	65	7	8.68
L 100×75×8	100	75	8	10.49
L 100×75×10	100	75	10	12.95
L 100×75×12	100	75	12	15.35
L 125×75×8	125	75	8	12.06
L 125×75×10	125	75	10	14.92
L 125×75×12	125	75	12	17.71
L 150×75×10	150	75	10	16.88
L 150×75×12	150	75	12	20.06
L 150×75×15	150	75	15	24.73
L 150×90×10	150	90	10	18.06
L 150×90×12	150	90	12	21.48
L 150×90×15	150	90	15	26.49
L 200×100×10	200	100	10	22.77
L 200×100×12	200	100	12	27.13
L 200×100×15	200	100	15	33.56
L 200×150×12	200	150	12	31.84
L 200×150×15	200	150	15	39.45

14 T-BARS (TEES)

Equal tee sections for stiffeners, glazing bars and grating supports.





Example: T 50×50×6

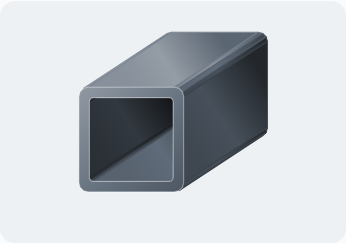
Size	Flange width (mm)	Height (mm)	Thickness (mm)	Weight (kg/m)
T 20×20×3	20	20	3	**0.87**
T 25×25×3	25	25	3	**1.11**
T 30×30×4	30	30	4	**1.76**
T 35×35×4	35	35	4	**2.07**
T 40×40×5	40	40	5	**2.94**
T 50×50×6	50	50	6	**4.43**
T 60×60×7	60	60	7	**6.21**
T 70×70×8	70	70	8	**8.29**
T 80×80×9	80	80	9	**10.67**
T 100×100×11	100	100	11	**16.32**

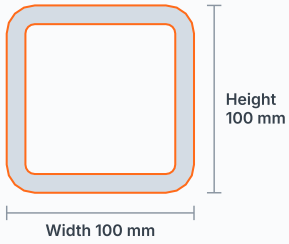
HOLLOW SECTIONS

2 tables

15 SQUARE HOLLOW SECTIONS (SHS)

EN 10219 cold-formed square tubes for frames, gates, canopies and trusses.





Example: 100×100×10

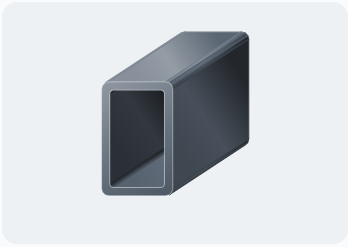
Size	Side (mm)	Wall thickness (mm)	Weight (kg/m)
20×20×1.5	20	1.5	0.84
20×20×2	20	2	1.08
25×25×1.5	25	1.5	1.08
25×25×2	25	2	1.39
25×25×2.5	25	2.5	1.68
25×25×3	25	3	1.95
30×30×2	30	2	1.7
30×30×2.5	30	2.5	2.07
30×30×3	30	3	2.42
40×40×2	40	2	2.33
40×40×2.5	40	2.5	2.86
40×40×3	40	3	3.36
40×40×4	40	4	4.31
50×50×2	50	2	2.96
50×50×2.5	50	2.5	3.64
50×50×3	50	3	4.31
50×50×4	50	4	5.56
50×50×5	50	5	6.73
60×60×2.5	60	2.5	4.43
60×60×3	60	3	5.25
60×60×4	60	4	6.82
60×60×5	60	5	8.3
60×60×6	60	6	9.69
70×70×3	70	3	6.19
70×70×4	70	4	8.07
70×70×5	70	5	9.87
80×80×3	80	3	7.13
80×80×4	80	4	9.33
80×80×5	80	5	11.44

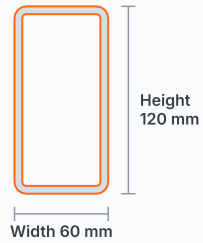
Size	Side (mm)	Wall thickness (mm)	Weight (kg/m)
80×80×6	80	6	**13.46**
90×90×4	90	4	**10.59**
90×90×5	90	5	**13.01**
90×90×6	90	6	**15.34**
100×100×3	100	3	**9.02**
100×100×4	100	4	**11.84**
100×100×5	100	5	**14.58**
100×100×6	100	6	**17.22**
100×100×8	100	8	**22.25**
100×100×10	100	10	**26.91**
120×120×4	120	4	**14.35**
120×120×5	120	5	**17.72**
120×120×6	120	6	**20.99**
120×120×8	120	8	**27.27**
120×120×10	120	10	**33.19**
140×140×5	140	5	**20.86**
140×140×6	140	6	**24.76**
140×140×8	140	8	**32.3**
140×140×10	140	10	**39.47**
150×150×5	150	5	**22.43**
150×150×6	150	6	**26.64**
150×150×8	150	8	**34.81**
150×150×10	150	10	**42.61**
150×150×12.5	150	12.5	**51.86**
180×180×6	180	6	**32.3**
180×180×8	180	8	**42.34**
180×180×10	180	10	**52.03**
180×180×12.5	180	12.5	**63.64**
200×200×6	200	6	**36.06**
200×200×8	200	8	**47.37**
200×200×10	200	10	**58.31**
200×200×12.5	200	12.5	**71.49**
200×200×16	200	16	**88.99**
250×250×6	250	6	**45.48**

Size	Side (mm)	Wall thickness (mm)	Weight (kg/m)
250×250×8	250	8	**59.93**
250×250×10	250	10	**74.01**
250×250×12.5	250	12.5	**91.11**
250×250×16	250	16	**114.11**
300×300×8	300	8	**72.49**
300×300×10	300	10	**89.71**
300×300×12.5	300	12.5	**110.74**
300×300×16	300	16	**139.23**
350×350×10	350	10	**105.41**
350×350×12.5	350	12.5	**130.36**
350×350×16	350	16	**164.35**
400×400×10	400	10	**121.11**
400×400×12.5	400	12.5	**149.99**
400×400×16	400	16	**189.47**

16 RECTANGULAR HOLLOW SECTIONS (RHS)

EN 10219 cold-formed rectangular tubes for frames, purlins and structures.





Example: 120×60×5

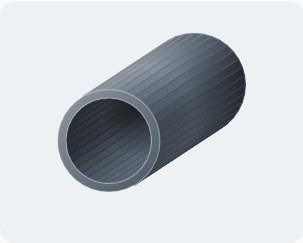
Size	Height (mm)	Width (mm)	Wall thickness (mm)	Weight (kg/m)
40×20×1.5	40	20	1.5	**1.31**
40×20×2	40	20	2	**1.7**
40×20×2.5	40	20	2.5	**2.07**
50×25×1.5	50	25	1.5	**1.67**
50×25×2	50	25	2	**2.18**
50×25×2.5	50	25	2.5	**2.66**
50×25×3	50	25	3	**3.13**
50×30×2	50	30	2	**2.33**
50×30×2.5	50	30	2.5	**2.86**
50×30×3	50	30	3	**3.36**
60×30×2	60	30	2	**2.65**
60×30×2.5	60	30	2.5	**3.25**
60×30×3	60	30	3	**3.84**
60×40×2	60	40	2	**2.96**
60×40×2.5	60	40	2.5	**3.64**
60×40×3	60	40	3	**4.31**
60×40×4	60	40	4	**5.56**
80×40×2	80	40	2	**3.59**
80×40×2.5	80	40	2.5	**4.43**
80×40×3	80	40	3	**5.25**
80×40×4	80	40	4	**6.82**
80×40×5	80	40	5	**8.3**
80×60×3	80	60	3	**6.19**
80×60×4	80	60	4	**8.07**
80×60×5	80	60	5	**9.87**
90×50×3	90	50	3	**6.19**
90×50×4	90	50	4	**8.07**
90×50×5	90	50	5	**9.87**
100×40×3	100	40	3	**6.19**
100×40×4	100	40	4	**8.07**
100×50×3	100	50	3	**6.66**
100×50×4	100	50	4	**8.7**

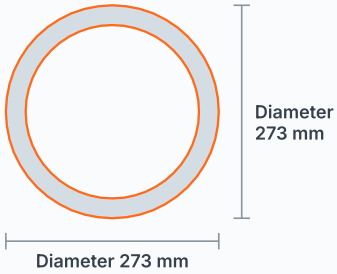
Size	Height (mm)	Width (mm)	Wall thickness (mm)	Weight (kg/m)
100×50×5	100	50	5	**10.65**
100×50×6	100	50	6	**12.51**
100×60×3	100	60	3	**7.13**
100×60×4	100	60	4	**9.33**
100×60×5	100	60	5	**11.44**
100×60×6	100	60	6	**13.46**
120×60×3	120	60	3	**8.07**
120×60×4	120	60	4	**10.59**
120×60×5	120	60	5	**13.01**
120×60×6	120	60	6	**15.34**
120×80×4	120	80	4	**11.84**
120×80×5	120	80	5	**14.58**
120×80×6	120	80	6	**17.22**
120×80×8	120	80	8	**22.25**
140×80×4	140	80	4	**13.1**
140×80×5	140	80	5	**16.15**
140×80×6	140	80	6	**19.11**
140×80×8	140	80	8	**24.76**
150×50×4	150	50	4	**11.84**
150×50×5	150	50	5	**14.58**
150×50×6	150	50	6	**17.22**
150×100×4	150	100	4	**14.98**
150×100×5	150	100	5	**18.5**
150×100×6	150	100	6	**21.93**
150×100×8	150	100	8	**28.53**
150×100×10	150	100	10	**34.76**
160×80×4	160	80	4	**14.35**
160×80×5	160	80	5	**17.72**
160×80×6	160	80	6	**20.99**
160×80×8	160	80	8	**27.27**
200×100×5	200	100	5	**22.43**
200×100×6	200	100	6	**26.64**
200×100×8	200	100	8	**34.81**
200×100×10	200	100	10	**42.61**

Size	Height (mm)	Width (mm)	Wall thickness (mm)	Weight (kg/m)
200×100×12.5	200	100	12.5	**51.86**
250×150×6	250	150	6	**36.06**
250×150×8	250	150	8	**47.37**
250×150×10	250	150	10	**58.31**
250×150×12.5	250	150	12.5	**71.49**
300×200×6	300	200	6	**45.48**
300×200×8	300	200	8	**59.93**
300×200×10	300	200	10	**74.01**
300×200×12.5	300	200	12.5	**91.11**
300×200×16	300	200	16	**114.11**
400×200×8	400	200	8	**72.49**
400×200×10	400	200	10	**89.71**
400×200×12.5	400	200	12.5	**110.74**
400×200×16	400	200	16	**139.23**

17 CARBON & STAINLESS PIPES (ASME B36.10 / B36.19)

Seamless and welded pipe, ⅛" to 48", every ASME schedule: weight classes STD / XS / XXS, schedules 5 to 160, and stainless schedules 5S to 80S.





Example: 10"

Nominal pipe size	Nominal bore (DN)	Outside diameter (inch)	Outside diameter (mm)	Weight class	Schedule	Stainless schedule	Wall thickness (inch)	Wall thickness (mm)	Weight (lb/ft)	Weight (kg/m)	Inside diameter (inch)	Inside diameter (mm)
1/8"	6	0.405	10.3	—	10	10S	0.049	1.24	**0.19**	**0.28**	0.307	7.82
1/8"	6	0.405	10.3	STD	40	40S	0.068	1.73	**0.24**	**0.37**	0.269	6.84
1/8"	6	0.405	10.3	XS	80	80S	0.095	2.41	**0.31**	**0.47**	0.215	5.84
1/4"	8	0.54	13.7	—	10	10S	0.065	1.65	**0.33**	**0.49**	0.41	10.4
1/4"	8	0.54	13.7	STD	40	40S	0.088	2.24	**0.43**	**0.63**	0.364	9.22
1/4"	8	0.54	13.7	XS	80	80S	0.119	3.02	**0.54**	**0.8**	0.302	7.66
3/8"	10	0.675	17.1	—	10	10S	0.065	1.65	**0.42**	**0.63**	0.545	13.8
3/8"	10	0.675	17.1	STD	40	40S	0.091	2.31	**0.57**	**0.84**	0.493	12.48
3/8"	10	0.675	17.1	XS	80	80S	0.126	3.2	**0.74**	**1.1**	0.423	10.7
1/2"	15	0.84	21.3	—	5	5S	0.065	1.65	**0.54**	**0.8**	0.71	18
1/2"	15	0.84	21.3	—	10	10S	0.083	2.11	**0.67**	**1**	0.674	17.08
1/2"	15	0.84	21.3	STD	40	40S	0.109	2.77	**0.85**	**1.27**	0.622	15.76
1/2"	15	0.84	21.3	XS	80	80S	0.147	3.73	**1.09**	**1.62**	0.546	13.84
1/2"	15	0.84	21.3	—	160	—	0.188	4.78	**1.31**	**1.95**	0.464	11.74
1/2"	15	0.84	21.3	XXS	—	—	0.294	7.47	**1.72**	**2.55**	0.252	6.36
3/4"	20	1.05	26.7	—	5	5S	0.065	1.65	**0.69**	**1.03**	0.92	23.4
3/4"	20	1.05	26.7	—	10	10S	0.083	2.11	**0.86**	**1.28**	0.884	22.48
3/4"	20	1.05	26.7	STD	40	40S	0.113	2.87	**1.13**	**1.69**	0.824	20.96
3/4"	20	1.05	26.7	XS	80	80S	0.154	3.91	**1.48**	**2.2**	0.742	18.88
3/4"	20	1.05	26.7	—	160	—	0.219	5.56	**1.95**	**2.9**	0.612	15.58
3/4"	20	1.05	26.7	XXS	—	—	0.308	7.82	**2.44**	**3.64**	0.434	11.06
1"	25	1.315	33.4	—	5	5S	0.065	1.65	**0.87**	**1.29**	1.185	30.1
1"	25	1.315	33.4	—	10	10S	0.109	2.77	**1.41**	**2.09**	1.097	27.86

Nominal pipe size	Nominal bore (DN)	Outside diameter (inch)	Outside diameter (mm)	Weight class	Schedule	Stainless schedule	Wall thickness (inch)	Wall thickness (mm)	Weight (lb/ft)	Weight (kg/m)	Inside diameter (inch)	Inside diameter (mm)
1"	25	1.315	33.4	STD	40	40S	0.133	3.38	1.68	2.5	1.049	26.64
1"	25	1.315	33.4	XS	80	80S	0.179	4.55	2.17	3.24	0.957	24.3
1"	25	1.315	33.4	—	160	—	0.25	6.35	2.85	4.24	0.815	20.7
1"	25	1.315	33.4	XXS	—	—	0.358	9.09	3.66	5.45	0.599	15.22
1-1/4"	32	1.66	42.2	—	5	5S	0.065	1.65	1.11	1.65	1.53	38.9
1-1/4"	32	1.66	42.2	—	10	10S	0.109	2.77	1.81	2.69	1.442	36.66
1-1/4"	32	1.66	42.2	STD	40	40S	0.14	3.56	2.27	3.39	1.38	35.08
1-1/4"	32	1.66	42.2	XS	80	80S	0.191	4.85	3	4.47	1.278	32.5
1-1/4"	32	1.66	42.2	—	160	—	0.25	6.35	3.77	5.61	1.16	29.5
1-1/4"	32	1.66	42.2	XXS	—	—	0.382	9.7	5.22	7.77	0.896	22.8
1-1/2"	40	1.9	48.3	—	5	5S	0.065	1.65	1.28	1.9	1.77	45
1-1/2"	40	1.9	48.3	—	10	10S	0.109	2.77	2.09	3.11	1.682	42.76
1-1/2"	40	1.9	48.3	STD	40	40S	0.145	3.68	2.72	4.05	1.61	40.94
1-1/2"	40	1.9	48.3	XS	80	80S	0.2	5.08	3.63	5.41	1.5	38.14
1-1/2"	40	1.9	48.3	—	160	—	0.281	7.14	4.86	7.25	1.338	34.02
1-1/2"	40	1.9	48.3	XXS	—	—	0.4	10.15	6.41	9.55	1.1	28
2"	50	2.375	60.3	—	5	5S	0.065	1.65	1.61	2.39	2.245	57
2"	50	2.375	60.3	—	10	10S	0.109	2.77	2.64	3.93	2.157	54.76
2"	50	2.375	60.3	STD	40	40S	0.154	3.91	3.66	5.44	2.067	52.48
2"	50	2.375	60.3	XS	80	80S	0.218	5.54	5.03	7.48	1.939	49.22
2"	50	2.375	60.3	—	160	—	0.344	8.74	7.47	11.11	1.687	42.82
2"	50	2.375	60.3	XXS	—	—	0.436	11.07	9.04	13.44	1.503	38.16
2-1/2"	65	2.875	73	—	5	5S	0.083	2.11	2.48	3.69	2.709	68.78
2-1/2"	65	2.875	73	—	10	10S	0.12	3.05	3.53	5.26	2.635	66.9
2-1/2"	65	2.875	73	STD	40	40S	0.203	5.16	5.8	8.63	2.469	62.68
2-1/2"	65	2.875	73	XS	80	80S	0.276	7.01	7.67	11.41	2.323	58.98
2-1/2"	65	2.875	73	—	160	—	0.375	9.53	10.02	14.92	2.125	53.94
2-1/2"	65	2.875	73	XXS	—	—	0.552	14.02	13.71	20.39	1.771	44.96
3"	80	3.5	88.9	—	5	5S	0.083	2.11	3.03	4.52	3.334	84.68
3"	80	3.5	88.9	—	10	10S	0.12	3.05	4.34	6.46	3.26	82.8
3"	80	3.5	88.9	STD	40	40S	0.216	5.49	7.58	11.29	3.068	77.92
3"	80	3.5	88.9	XS	80	80S	0.3	7.62	10.26	15.27	2.9	—
3"	80	3.5	88.9	—	160	—	0.438	11.13	14.34	21.35	2.624	66.64
3"	80	3.5	88.9	XXS	—	—	0.6	15.24	18.6	27.68	2.3	58.42
3-1/2"	90	4	101.6	—	5	5S	0.083	2.11	3.48	5.18	3.834	97.38
3-1/2"	90	4	101.6	—	10	10S	0.12	3.05	4.98	7.41	3.76	95.5
3-1/2"	90	4	101.6	STD	40	40S	0.226	5.74	9.12	13.57	3.548	90.12
3-1/2"	90	4	101.6	XS	80	80S	0.318	8.08	12.52	18.64	3.364	85.44

Nominal pipe size	Nominal bore (DN)	Outside diameter (inch)	Outside diameter (mm)	Weight class	Schedule	Stainless schedule	Wall thickness (inch)	Wall thickness (mm)	Weight (lb/ft)	Weight (kg/m)	Inside diameter (inch)	Inside diameter (mm)
3-1/2"	90	4	101.6	XXS	—	—	0.636	16.15	**22.87**	**34.03**	2.728	69.3
4"	100	4.5	114.3	—	5	5S	0.083	2.11	**3.92**	**5.84**	4.334	110.08
4"	100	4.5	114.3	—	10	10S	0.12	3.05	**5.62**	**8.37**	4.26	108.2
4"	100	4.5	114.3	—	—	—	0.156	3.96	**7.24**	**10.78**	4.188	106.38
4"	100	4.5	114.3	—	—	—	0.188	4.78	**8.67**	**12.91**	4.124	104.74
4"	100	4.5	114.3	STD	40	40S	0.237	6.02	**10.8**	**16.08**	4.026	102.26
4"	100	4.5	114.3	XS	80	80S	0.337	8.56	**15**	**22.32**	3.826	97.18
4"	100	4.5	114.3	—	120	—	0.438	11.13	**19.02**	**28.32**	3.624	92.04
4"	100	4.5	114.3	—	160	—	0.531	13.49	**22.53**	**33.54**	3.438	87.32
4"	100	4.5	114.3	XXS	—	—	0.674	17.12	**27.57**	**41.03**	3.152	80.06
4-1/2"	115	5	127	STD	40	40S	0.247	6.27	**12.55**	**18.67**	4.506	114.46
4-1/2"	115	5	127	XS	80	80S	0.355	9.02	**17.63**	**26.24**	4.29	108.96
4-1/2"	115	5	127	XXS	—	—	0.71	18.03	**32.56**	**48.45**	3.58	90.94
5"	125	5.563	141.3	—	5	5S	0.109	2.77	**6.36**	**9.46**	5.345	135.76
5"	125	5.563	141.3	—	10	10S	0.134	3.4	**7.78**	**11.56**	5.295	134.5
5"	125	5.563	141.3	STD	40	40S	0.258	6.55	**14.63**	**21.77**	5.047	128.2
5"	125	5.563	141.3	XS	80	80S	0.375	9.53	**20.8**	**30.97**	4.813	122.24
5"	125	5.563	141.3	—	120	—	0.5	12.7	**27.06**	**40.28**	4.563	115.9
5"	125	5.563	141.3	—	160	—	0.625	15.88	**32.99**	**49.12**	4.313	109.54
5"	125	5.563	141.3	XXS	—	—	0.75	19.05	**38.59**	**57.43**	4.063	103.2
6"	150	6.625	168.3	—	5	5S	0.109	2.77	**7.59**	**11.31**	6.407	162.76
6"	150	6.625	168.3	—	10	10S	0.134	3.4	**9.3**	**13.83**	6.357	161.5
6"	150	6.625	168.3	—	—	—	0.188	4.78	**12.94**	**19.28**	6.249	158.74
6"	150	6.625	168.3	STD	40	40S	0.28	7.11	**18.99**	**28.26**	6.065	154.08
6"	150	6.625	168.3	XS	80	80S	0.432	10.97	**28.6**	**42.56**	5.761	146.36
6"	150	6.625	168.3	—	120	—	0.562	14.27	**36.43**	**54.21**	5.501	139.76
6"	150	6.625	168.3	—	160	—	0.719	18.26	**45.39**	**67.57**	5.187	131.78
6"	150	6.625	168.3	XXS	—	—	0.864	21.95	**53.21**	**79.22**	4.897	124.4
7"	175	7.625	193.7	STD	40	40S	0.301	7.65	**23.57**	**35.1**	7.023	178.4
7"	175	7.625	193.7	XS	80	80S	0.5	12.7	**38.08**	**56.69**	6.625	168.3
7"	175	7.625	193.7	XXS	—	—	0.875	22.23	**63.14**	**94**	5.875	149.24
8"	200	8.625	219.1	—	—	5S	0.109	2.77	**9.92**	**14.78**	8.407	213.56
8"	200	8.625	219.1	—	10	10S	0.148	3.76	**13.41**	**19.97**	8.329	211.58
8"	200	8.625	219.1	—	20	—	0.25	6.35	**22.38**	**33.32**	8.125	206.4
8"	200	8.625	219.1	—	30	—	0.277	7.04	**24.72**	**36.82**	8.071	205.02
8"	200	8.625	219.1	STD	40	40S	0.322	8.18	**28.58**	**42.55**	7.981	202.74
8"	200	8.625	219.1	—	60	—	0.406	10.31	**35.67**	**53.09**	7.813	198.48
8"	200	8.625	219.1	XS	80	80S	0.5	12.7	**43.43**	**64.64**	7.625	193.7

Nominal pipe size	Nominal bore (DN)	Outside diameter (inch)	Outside diameter (mm)	Weight class	Schedule	Stainless schedule	Wall thickness (inch)	Wall thickness (mm)	Weight (lb/ft)	Weight (kg/m)	Inside diameter (inch)	Inside diameter (mm)
8"	200	8.625	219.1	—	100	—	0.594	15.09	51	75.92	7.437	188.92
8"	200	8.625	219.1	—	120	—	0.719	18.26	60.77	90.44	7.187	182.58
8"	200	8.625	219.1	—	140	—	0.812	20.62	67.82	100.93	7.001	177.86
8"	200	8.625	219.1	XXS	—	—	0.875	22.23	72.49	107.93	6.875	174.64
8"	200	8.625	219.1	—	160	—	0.906	23.01	74.76	111.27	6.813	173.08
9"	225	9.625	244.5	STD	40	40S	0.342	8.69	33.94	50.54	8.941	227.12
9"	225	9.625	244.5	XS	80	80S	0.5	12.7	48.77	72.6	8.625	219.1
9"	225	9.625	244.5	XXS	—	—	0.875	22.23	81.85	121.85	7.875	200.04
10"	250	10.75	273	—	—	5S	0.134	3.4	15.21	22.61	10.482	266.2
10"	250	10.75	273	—	—	10S	0.165	4.19	18.67	27.78	10.42	264.62
10"	250	10.75	273	—	—	—	0.188	4.78	21.23	31.62	10.374	263.44
10"	250	10.75	273	—	20	—	0.25	6.35	28.06	41.76	10.25	260.3
10"	250	10.75	273	—	30	—	0.307	7.8	34.27	51.01	10.136	257.4
10"	250	10.75	273	STD	40	40S	0.365	9.27	40.52	60.29	10.02	254.46
10"	250	10.75	273	XS	60	80S	0.5	12.7	54.79	81.53	9.75	247.6
10"	250	10.75	273	—	80	—	0.594	15.09	64.49	95.98	9.562	242.82
10"	250	10.75	273	—	100	—	0.719	18.26	77.1	114.71	9.312	236.48
10"	250	10.75	273	—	120	—	0.844	21.44	89.38	133.01	9.062	230.12
10"	250	10.75	273	XXS	140	—	1	25.4	104.23	155.1	8.75	222.2
10"	250	10.75	273	—	160	—	1.125	28.58	115.75	172.27	8.5	215.84
11"	275	11.75	298.5	STD	40	40S	0.375	9.53	45.6	67.91	11	279.44
11"	275	11.75	298.5	XS	80	80S	0.5	12.7	60.13	89.51	10.75	273.1
11"	275	11.75	298.5	XXS	—	—	0.875	22.23	101.72	151.46	10	254.04
12"	300	12.75	323.8	—	—	5S	0.156	3.96	21	31.24	—	315.88
12"	300	12.75	323.8	—	—	10S	0.18	4.57	24.19	35.98	12.39	314.66
12"	300	12.75	323.8	—	—	—	0.188	4.78	25.25	37.61	12.374	314.24
12"	300	12.75	323.8	—	20	—	0.25	6.35	33.41	49.71	12.25	311.1
12"	300	12.75	323.8	—	30	—	0.33	8.38	43.81	65.19	12.09	307.04
12"	300	12.75	323.8	STD	—	40S	0.375	9.53	49.61	73.86	12	304.74
12"	300	12.75	323.8	—	40	—	0.406	10.31	53.57	79.71	11.938	303.18
12"	300	12.75	323.8	XS	—	80S	0.5	12.7	65.48	97.44	11.75	298.4
12"	300	12.75	323.8	—	60	—	0.562	14.27	73.22	108.93	11.626	295.26
12"	300	12.75	323.8	—	80	—	0.688	17.48	88.71	132.05	11.374	288.84
12"	300	12.75	323.8	—	100	—	0.844	21.44	107.42	159.87	11.062	280.92
12"	300	12.75	323.8	XXS	120	—	1	25.4	125.61	186.92	10.75	273
12"	300	12.75	323.8	—	140	—	1.125	28.58	139.81	208.08	10.5	266.64
12"	300	12.75	323.8	—	160	—	1.312	33.32	160.42	238.69	10.126	257.16
14"	350	14	355.6	—	—	10S	0.188	4.78	27.76	41.36	13.624	346.04

Nominal pipe size	Nominal bore (DN)	Outside diameter (inch)	Outside diameter (mm)	Weight class	Schedule	Stainless schedule	Wall thickness (inch)	Wall thickness (mm)	Weight (lb/ft)	Weight (kg/m)	Inside diameter (inch)	Inside diameter (mm)
14"	350	14	355.6	—	10	—	0.25	6.35	**36.75**	**54.69**	13.5	342.9
14"	350	14	355.6	—	20	—	0.312	7.92	**45.65**	**67.91**	13.376	339.76
14"	350	14	355.6	STD	30	40S	0.375	9.53	**54.62**	**81.33**	13.25	336.54
14"	350	14	355.6	—	40	—	0.438	11.13	**63.5**	**94.55**	13.124	333.34
14"	350	14	355.6	XS	—	80S	0.5	12.7	**72.16**	**107.4**	13	330.2
14"	350	14	355.6	—	60	—	0.594	15.09	**85.13**	**126.72**	12.812	325.42
14"	350	14	355.6	—	80	—	0.75	19.05	**106.23**	**158.11**	12.5	317.5
14"	350	14	355.6	—	100	—	0.938	23.83	**130.98**	**194.98**	12.124	307.94
14"	350	14	355.6	—	120	—	1.094	27.79	**150.93**	**224.66**	11.812	300.02
14"	350	14	355.6	—	140	—	1.25	31.75	**170.37**	**253.58**	11.5	292.1
14"	350	14	355.6	—	160	—	1.406	35.71	**189.29**	**281.72**	11.188	284.18
16"	400	16	406.4	—	—	10S	0.188	4.78	**31.78**	**47.34**	15.624	396.84
16"	400	16	406.4	—	10	—	0.25	6.35	**42.09**	**62.65**	15.5	393.7
16"	400	16	406.4	—	20	—	0.312	7.92	**52.32**	**77.83**	15.376	390.56
16"	400	16	406.4	STD	30	40S	0.375	9.53	**62.64**	**93.27**	15.25	387.34
16"	400	16	406.4	XS	40	80S	0.5	12.7	**82.85**	**123.31**	15	381
16"	400	16	406.4	—	60	—	0.656	16.66	**107.6**	**160.13**	14.688	373.08
16"	400	16	406.4	—	80	—	0.844	21.44	**136.74**	**203.54**	14.312	363.52
16"	400	16	406.4	—	100	—	1.031	26.19	**164.98**	**245.57**	13.938	354.02
16"	400	16	406.4	—	120	—	1.219	30.96	**192.61**	**286.66**	13.562	344.48
16"	400	16	406.4	—	140	—	1.438	36.53	**223.85**	**333.21**	13.124	333.34
16"	400	16	406.4	—	160	—	1.594	40.49	**245.48**	**365.38**	12.812	325.42
18"	450	18	457	—	—	10S	0.188	4.78	**35.8**	**53.31**	17.624	447.44
18"	450	18	457	—	10	—	0.25	6.35	**47.44**	**70.57**	17.5	444.3
18"	450	18	457	—	20	—	0.312	7.92	**58.99**	**87.71**	17.376	441.16
18"	450	18	457	STD	—	40S	0.375	9.53	**70.65**	**105.17**	17.25	437.94
18"	450	18	457	—	30	—	0.438	11.13	**82.23**	**122.38**	17.124	434.74
18"	450	18	457	XS	—	80S	0.5	12.7	**93.54**	**139.16**	17	431.6
18"	450	18	457	—	40	—	0.562	14.27	**104.76**	**155.81**	16.876	428.46
18"	450	18	457	—	60	—	0.75	19.05	**138.3**	**205.75**	16.5	418.9
18"	450	18	457	—	80	—	0.938	23.83	**171.08**	**254.57**	16.124	409.34
18"	450	18	457	—	100	—	1.156	29.36	**208.15**	**309.64**	15.688	398.28
18"	450	18	457	—	120	—	1.375	34.93	**244.37**	**363.58**	15.25	387.14
18"	450	18	457	—	140	—	1.562	39.67	**274.48**	**408.28**	14.876	377.66
18"	450	18	457	—	160	—	1.781	45.24	**308.79**	**459.39**	14.438	366.52
20"	500	20	508	—	—	10S	0.218	5.54	**46.1**	**68.61**	19.564	496.92
20"	500	20	508	—	10	—	0.25	6.35	**52.78**	**78.56**	19.5	495.3
20"	500	20	508	STD	20	40S	0.375	9.53	**78.67**	**117.15**	19.25	488.94

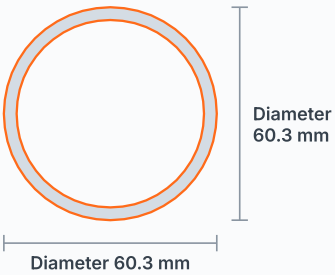
Nominal pipe size	Nominal bore (DN)	Outside diameter (inch)	Outside diameter (mm)	Weight class	Schedule	Stainless schedule	Wall thickness (inch)	Wall thickness (mm)	Weight (lb/ft)	Weight (kg/m)	Inside diameter (inch)	Inside diameter (mm)
20"	500	20	508	XS	30	80S	0.5	12.7	**104.23**	**155.13**	19	482.6
20"	500	20	508	—	40	—	0.594	15.09	**123.23**	**183.43**	18.812	477.82
20"	500	20	508	—	60	—	0.812	20.62	**166.56**	**247.84**	18.376	466.76
20"	500	20	508	—	80	—	1.031	26.19	**209.06**	**311.19**	17.938	455.62
20"	500	20	508	—	100	—	1.281	32.54	**256.34**	**381.55**	17.438	442.92
20"	500	20	508	—	120	—	1.5	38.1	**296.65**	**441.52**	17	431.8
20"	500	20	508	—	140	—	1.75	44.45	**341.41**	**508.15**	16.5	419.1
20"	500	20	508	—	160	—	1.969	50.01	**379.53**	**564.85**	16.062	407.98
22"	550	22	559	—	—	10S	0.218	5.54	**50.76**	**75.55**	21.564	547.92
22"	550	22	559	—	10	—	0.25	6.35	**58.13**	**86.55**	21.5	546.3
22"	550	22	559	STD	20	40S	0.375	9.53	**86.69**	**129.14**	21.25	539.94
22"	550	22	559	XS	30	80S	0.5	12.7	**114.92**	**171.1**	21	533.6
22"	550	22	559	—	60	—	0.875	22.23	**197.6**	**294.27**	20.25	514.54
22"	550	22	559	—	80	—	1.125	28.58	**251.05**	**373.85**	19.75	501.84
22"	550	22	559	—	100	—	1.375	34.93	**303.16**	**451.45**	19.25	489.14
22"	550	22	559	—	120	—	1.625	41.28	**353.94**	**527.05**	18.75	476.44
22"	550	22	559	—	140	—	1.875	47.63	**403.38**	**600.67**	18.25	463.74
22"	550	22	559	—	160	—	2.125	53.98	**451.49**	**672.3**	17.75	451.04
24"	600	24	610	—	10	10S	0.25	6.35	**63.47**	**94.53**	23.5	597.3
24"	600	24	610	STD	20	40S	0.375	9.53	**94.71**	**141.12**	23.25	590.94
24"	600	24	610	XS	—	80S	0.5	12.7	**125.61**	**187.07**	23	584.6
24"	600	24	610	—	30	—	0.562	14.27	**140.81**	**209.65**	22.876	581.46
24"	600	24	610	—	40	—	0.688	17.48	**171.45**	**255.43**	22.624	575.04
24"	600	24	610	—	60	—	0.969	24.61	**238.57**	**355.28**	22.062	560.78
24"	600	24	610	—	80	—	1.219	30.96	**296.86**	**442.11**	21.562	548.08
24"	600	24	610	—	100	—	1.531	38.89	**367.74**	**547.74**	20.938	532.22
24"	600	24	610	—	120	—	1.812	46.02	**429.79**	**640.07**	20.376	517.96
24"	600	24	610	—	140	—	2.062	52.37	**483.57**	**720.19**	19.876	505.26
24"	600	24	610	—	160	—	2.344	59.54	**542.64**	**808.27**	19.312	490.92
26"	650	26	660	—	10	—	0.312	7.92	**85.68**	**127.36**	25.376	644.16
26"	650	26	660	STD	—	40S	0.375	9.53	**102.72**	**152.88**	25.25	640.94
26"	650	26	660	XS	—	80S	0.5	12.7	**136.3**	**202.74**	25	634.6
28"	700	28	711	—	10	—	0.312	7.92	**92.35**	**137.32**	27.376	695.16
28"	700	28	711	STD	—	40S	0.375	9.53	**110.74**	**164.86**	27.25	691.94
28"	700	28	711	XS	20	80S	0.5	12.7	**146.99**	**218.71**	27	685.6
28"	700	28	711	—	30	—	0.625	15.88	**182.9**	**272.23**	26.75	679.24
30"	750	30	762	—	10	—	0.312	7.92	**99.02**	**147.29**	29.376	746.16
30"	750	30	762	STD	—	40S	0.375	9.53	**118.76**	**176.85**	29.25	742.94

Nominal pipe size	Nominal bore (DN)	Outside diameter (inch)	Outside diameter (mm)	Weight class	Schedule	Stainless schedule	Wall thickness (inch)	Wall thickness (mm)	Weight (lb/ft)	Weight (kg/m)	Inside diameter (inch)	Inside diameter (mm)
30"	750	30	762	XS	20	80S	0.5	12.7	**157.68**	**234.68**	29	736.6
30"	750	30	762	—	30	—	0.625	15.88	**196.26**	**292.2**	28.75	730.24
32"	800	32	813	—	10	—	0.312	7.92	**105.69**	**157.25**	31.376	797.16
32"	800	32	813	STD	—	—	0.375	9.53	**126.78**	**188.83**	31.25	793.94
32"	800	32	813	XS	20	—	0.5	12.7	**168.37**	**250.65**	31	787.6
32"	800	32	813	—	30	—	0.625	15.88	**209.62**	**312.17**	30.75	781.24
32"	800	32	813	—	40	—	0.688	17.48	**230.29**	**342.94**	30.624	778.04
34"	850	34	864	—	10	—	0.312	7.92	**112.36**	**167.21**	33.376	848.16
34"	850	34	864	STD	—	—	0.375	9.53	**134.79**	**200.82**	33.25	844.94
34"	850	34	864	XS	20	—	0.5	12.7	**179.06**	**266.63**	33	838.6
34"	850	34	864	—	30	—	0.625	15.88	**222.99**	**332.14**	32.75	832.24
34"	850	34	864	—	40	—	0.688	17.48	**245**	**364.92**	32.624	829.04
36"	900	36	914	—	10	—	0.312	7.92	**119.03**	**176.97**	35.376	898.16
36"	900	36	914	STD	—	—	0.375	9.53	**142.81**	**212.57**	35.25	894.94
36"	900	36	914	XS	—	—	0.5	12.7	**189.75**	**282.29**	35	888.6
42"	1050	42	1067	STD	—	—	0.375	9.53	**166.86**	**248.53**	41.25	1047.94
42"	1050	42	1067	XS	—	—	0.5	12.7	**221.82**	**330.21**	41	1041.6
42"	1050	42	1067	—	—	—	0.625	15.88	**276.44**	**411.64**	40.75	1035.24
42"	1050	42	1067	—	—	—	0.75	19.05	**330.72**	**492.33**	40.5	1028.9
48"	1200	48	1219	STD	—	—	0.375	9.53	**190.92**	**284.25**	47.25	1199.94
48"	1200	48	1219	XS	—	—	0.5	12.7	**253.89**	**377.81**	47	1193.6

18 BLACK & G.I. PIPES (BS 1387 / EN 10255)

Light (Class A), Medium (Class B) and Heavy (Class C) pipes, black or hot-dip galvanized.





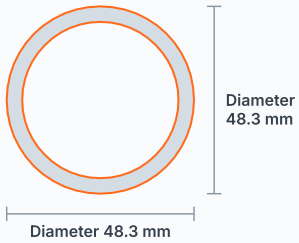
Example: 50

Nominal bore (mm)	Size (inch)	Outside diameter (mm)	Light (A) wall thickness (mm)	Light (A) weight (kg/m)	Medium (B) wall thickness (mm)	Medium (B) weight (kg/m)	Heavy (C) wall thickness (mm)	Heavy (C) weight (kg/m)
15	½"	21.3	2	**0.95**	2.6	**1.2**	3.2	**1.43**
20	¾"	26.9	2.3	**1.4**	2.6	**1.56**	3.2	**1.87**
25	1"	33.7	2.6	**1.99**	3.2	**2.41**	4	**2.93**
32	1¼"	42.4	2.6	**2.55**	3.2	**3.09**	4	**3.79**
40	1½"	48.3	2.9	**3.25**	3.2	**3.56**	4	**4.37**
50	2"	60.3	2.9	**4.1**	3.6	**5.03**	4.5	**6.19**
65	2½"	76.1	3.2	**5.75**	3.6	**6.44**	4.5	**7.95**
80	3"	88.9	3.2	**6.76**	4	**8.37**	5	**10.34**
100	4"	114.3	3.6	**9.83**	4.5	**12.18**	5.4	**14.5**
125	5"	139.7	—	**—**	5	**16.61**	5.4	**17.88**
150	6"	165.1	—	**—**	5	**19.74**	5.4	**21.27**

19 SCAFFOLDING TUBES

Scaffolding tubes (BS EN 39), black or galvanized, standard 6 m lengths.



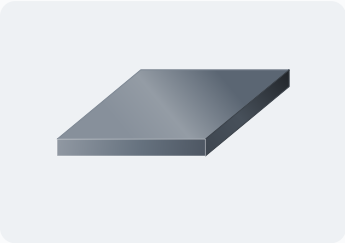


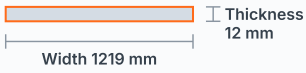
Example: 48.3×4

Size	Outside diameter (mm)	Wall thickness (mm)	Weight (kg/m)	Weight per 6 m length (kg)
48.3×3.2	48.3	3.2	**3.56**	**21.36**
48.3×4	48.3	4	**4.37**	**26.22**

20 HOT ROLLED SHEETS & PLATES

Hot rolled sheets and plates from 0.4 mm to 100 mm: SS400, A36, S275JR and S355J2. Thin sizes are cut from coil; boiler (A516) and shipbuilding (ABS) grades and cold rolled (SPCC / DC01) sheets on request.





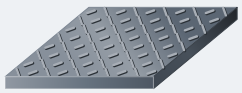
Example: 12 mm

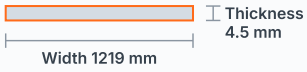
Thickness (mm)	Weight (kg/m²)	Weight per sheet 4 × 8 ft · 1219 × 2438 mm (kg)	Weight per sheet 1250 × 2500 mm (kg)	Weight per sheet 1500 × 6000 mm (kg)	Weight per sheet 2000 × 6000 mm (kg)	Weight per sheet 2500 × 6000 mm (kg)
0.4	3.14	9.33	9.81	28.26	37.68	47.1
0.5	3.93	11.66	12.27	35.33	47.1	58.88
0.6	4.71	14	14.72	42.39	56.52	70.65
0.7	5.5	16.33	17.17	49.46	65.94	82.43
0.8	6.28	18.66	19.63	56.52	75.36	94.2
0.9	7.07	21	22.08	63.59	84.78	105.98
1	7.85	23.33	24.53	70.65	94.2	117.75
1.2	9.42	28	29.44	84.78	113.04	141.3
1.5	11.78	34.99	36.8	105.98	141.3	176.63
1.6	12.56	37.33	39.25	113.04	150.72	188.4
2	15.7	46.66	49.06	141.3	188.4	235.5
2.5	19.63	58.32	61.33	176.63	235.5	294.38
3	23.55	69.99	73.59	211.95	282.6	353.25
4	31.4	93.32	98.13	282.6	376.8	471
5	39.25	116.65	122.66	353.25	471	588.75
6	47.1	139.98	147.19	423.9	565.2	706.5
8	62.8	186.64	196.25	565.2	753.6	942
10	78.5	233.3	245.31	706.5	942	1177.5
12	94.2	279.96	294.38	847.8	1130.4	1413
14	109.9	326.61	343.44	989.1	1318.8	1648.5
15	117.75	349.94	367.97	1059.75	1413	1766.25
16	125.6	373.27	392.5	1130.4	1507.2	1884
18	141.3	419.93	441.56	1271.7	1695.6	2119.5
20	157	466.59	490.63	1413	1884	2355
22	172.7	513.25	539.69	1554.3	2072.4	2590.5
25	196.25	583.24	613.28	1766.25	2355	2943.75

Thickness (mm)	Weight (kg/m²)	Weight per sheet 4 × 8 ft · 1219 × 2438 mm (kg)	Weight per sheet 1250 × 2500 mm (kg)	Weight per sheet 1500 × 6000 mm (kg)	Weight per sheet 2000 × 6000 mm (kg)	Weight per sheet 2500 × 6000 mm (kg)
28	219.8	653.23	686.88	1978.2	2637.6	3297
30	235.5	699.89	735.94	2119.5	2826	3532.5
35	274.75	816.54	858.59	2472.75	3297	4121.25
40	314	933.18	981.25	2826	3768	4710
45	353.25	1049.83	1103.91	3179.25	4239	5298.75
50	392.5	1166.48	1226.56	3532.5	4710	5887.5
60	471	1399.78	1471.88	4239	5652	7065
70	549.5	1633.07	1717.19	4945.5	6594	8242.5
80	628	1866.37	1962.5	5652	7536	9420
100	785	2332.96	2453.13	7065	9420	11775

21 CHEQUERED PLATES

Anti-slip tread plates, ASTM A36 / S275JR / SS400. Chequered sheet weight = plain plate weight + 5 kg (4 × 8 ft sheet) or + 15 kg (1500 × 6000 mm sheet) for the raised pattern.



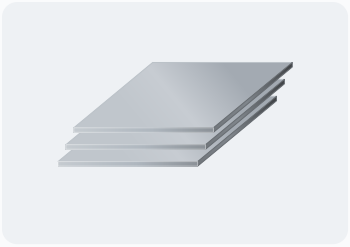


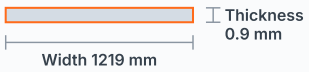
Example: 4.5 mm

Thickness (mm)	Chequered sheet weight 4 × 8 ft (kg)	Chequered sheet weight 1500 × 6000 mm (kg)
1.8	46.99	142.17
2	51.66	156.3
2.5	63.32	191.63
3	74.99	226.95
4	98.32	297.6
4.5	109.98	332.92
5	121.65	368.25
6	144.98	438.9
8	191.64	580.2
10	238.3	721.5

22 G.I. SHEETS

Hot-dip galvanized sheets (DX51D, Z120–Z275), plain. Odd sizes on request.



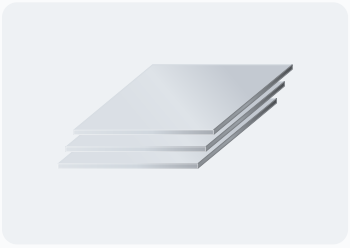


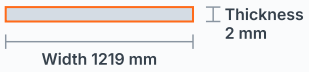
Example: 0.9 mm

Thickness (mm)	Weight (kg/m²)	Weight per sheet 4 × 8 ft · 1219 × 2438 mm (kg)	Weight per sheet 4 × 10 ft · 1219 × 3048 mm (kg)
0.3	2.36	7	8.75
0.4	3.14	9.33	11.67
0.5	3.93	11.66	14.58
0.6	4.71	14	17.5
0.7	5.5	16.33	20.42
0.8	6.28	18.66	23.33
0.9	7.07	21	26.25
1	7.85	23.33	29.17
1.2	9.42	28	35
1.5	11.78	34.99	43.75
2	15.7	46.66	58.33
2.5	19.63	58.32	72.92
3	23.55	69.99	87.5

23 STAINLESS STEEL SHEETS

Grade 304 / 316L sheets in mill, 2B, No.4 and mirror finishes.





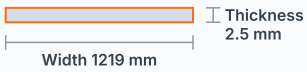
Example: 2 mm

Thickness (mm)	Weight (kg/m²)	Weight per sheet 4 × 8 ft · 1219 × 2438 mm (kg)	Weight per sheet 4 × 10 ft · 1219 × 3048 mm (kg)	Weight per sheet 5 × 10 ft · 1524 × 3048 mm (kg)
0.5	4	11.89	14.86	18.58
0.6	4.8	14.27	17.83	22.3
0.8	6.4	19.02	23.78	29.73
1	8	23.78	29.72	37.16
1.2	9.6	28.53	35.67	44.59
1.5	12	35.66	44.59	55.74
2	16	47.55	59.45	74.32
2.5	20	59.44	74.31	92.9
3	24	71.33	89.17	111.48
4	32	95.1	118.9	148.64
5	40	118.88	148.62	185.81
6	48	142.65	178.34	222.97

24 ALUMINIUM SHEETS & PLATES

Plain aluminium sheets and plates (1050 / 5052 / 6061).



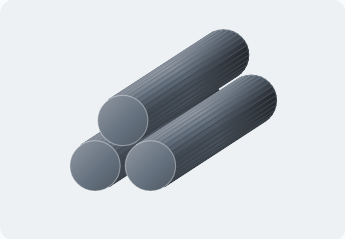


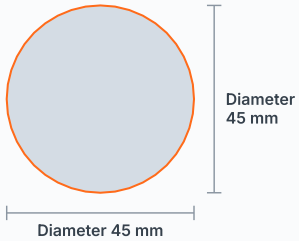
Example: 2.5 mm

Thickness (mm)	Weight (kg/m²)	Weight per sheet 4 × 8 ft · 1219 × 2438 mm (kg)	Weight per sheet 1500 × 3000 mm (kg)
0.5	1.35	4.01	6.08
0.7	1.89	5.62	8.5
0.8	2.16	6.42	9.72
1	2.7	8.02	12.15
1.2	3.24	9.63	14.58
1.5	4.05	12.04	18.23
2	5.4	16.05	24.3
2.5	6.75	20.06	30.38
3	8.1	24.07	36.45
4	10.8	32.1	48.6
5	13.5	40.12	60.75
6	16.2	48.15	72.9
8	21.6	64.19	97.2
10	27	80.24	121.5

25 ROUND BARS

Mild steel plain round bars, standard 6 m lengths.





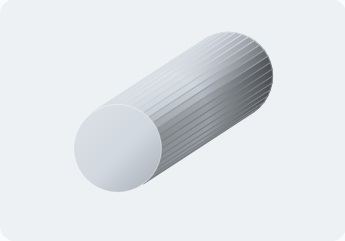
Example: 45 mm

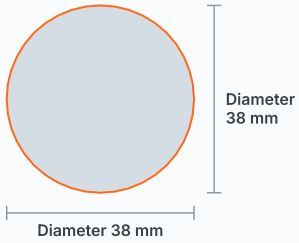
Diameter (mm)	Weight (kg/m)	Weight per 6 m length (kg)	Metres per ton
6	0.22	1.32	4545
8	0.39	2.34	2564
10	0.62	3.72	1613
12	0.89	5.34	1124
14	1.21	7.26	826
16	1.58	9.48	633
18	2	12	500
20	2.47	14.82	405
22	2.98	17.88	336
25	3.85	23.1	260
28	4.83	28.98	207
30	5.55	33.3	180
32	6.31	37.86	158
35	7.55	45.3	132
40	9.86	59.16	101
45	12.48	74.88	80
50	15.41	92.46	65
55	18.65	111.9	54
60	22.2	133.2	45
65	26.05	156.3	38
70	30.21	181.26	33
75	34.68	208.08	29
80	39.46	236.76	25
90	49.94	299.64	20
100	61.65	369.9	16
110	74.6	447.6	13
120	88.78	532.68	11
125	96.33	577.98	10
150	138.72	832.32	7

Diameter (mm)	Weight (kg/m)	Weight per 6 m length (kg)	Metres per ton
175	188.81	1132.86	5
200	246.62	1479.72	4

26 SHAFTING / BRIGHT BARS

Bright drawn / turned shafting bars (EN8 / C45 / 1045) for machining, 6 m lengths.





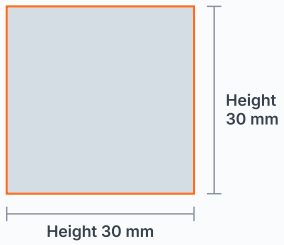
Example: 38 mm

Diameter (mm)	Weight (kg/m)	Weight per 6 m length (kg)
10	0.62	3.72
12	0.89	5.34
14	1.21	7.26
16	1.58	9.48
19	2.23	13.38
20	2.47	14.82
22	2.98	17.88
25	3.85	23.1
28	4.83	28.98
30	5.55	33.3
32	6.31	37.86
35	7.55	45.3
38	8.9	53.4
40	9.86	59.16
45	12.48	74.88
50	15.41	92.46
55	18.65	111.9
60	22.2	133.2
65	26.05	156.3
70	30.21	181.26
75	34.68	208.08
80	39.46	236.76
90	49.94	299.64
100	61.65	369.9

27 SQUARE BARS

Solid mild steel square bars, standard 6 m lengths.



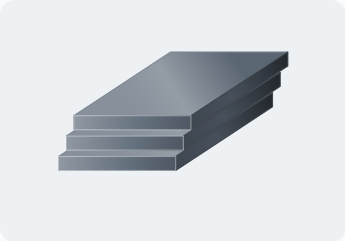


Example: 30 mm

Side (mm)	Weight (kg/m)	Weight per 6 m length (kg)	Metres per ton
6	0.28	1.68	3571
8	0.5	3	2000
10	0.79	4.74	1266
12	1.13	6.78	885
16	2.01	12.06	498
20	3.14	18.84	318
25	4.91	29.46	204
30	7.07	42.42	141
32	8.04	48.24	124
40	12.56	75.36	80
50	19.63	117.78	51
60	28.26	169.56	35
75	44.16	264.96	23
100	78.5	471	13

28 FLAT BARS

Mild steel flat bars, standard 6 m lengths.





Example: 65×6

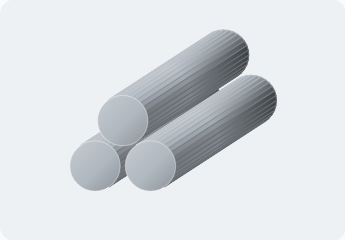
Size	Width (mm)	Thickness (mm)	Weight (kg/m)	Weight per 6 m length (kg)
13×3	13	3	0.31	1.86
16×3	16	3	0.38	2.28
20×3	20	3	0.47	2.82
20×5	20	5	0.79	4.74
20×6	20	6	0.94	5.64
20×10	20	10	1.57	9.42
25×3	25	3	0.59	3.54
25×5	25	5	0.98	5.88
25×6	25	6	1.18	7.08
25×8	25	8	1.57	9.42
25×10	25	10	1.96	11.76
25×12	25	12	2.36	14.16
30×3	30	3	0.71	4.26
30×5	30	5	1.18	7.08
30×6	30	6	1.41	8.46
30×8	30	8	1.88	11.28
30×10	30	10	2.36	14.16
30×12	30	12	2.83	16.98
40×3	40	3	0.94	5.64
40×5	40	5	1.57	9.42
40×6	40	6	1.88	11.28
40×8	40	8	2.51	15.06
40×10	40	10	3.14	18.84
40×12	40	12	3.77	22.62
40×20	40	20	6.28	37.68
50×5	50	5	1.96	11.76
50×6	50	6	2.36	14.16
50×8	50	8	3.14	18.84
50×10	50	10	3.93	23.58
50×12	50	12	4.71	28.26
50×20	50	20	7.85	47.1
50×25	50	25	9.81	58.86

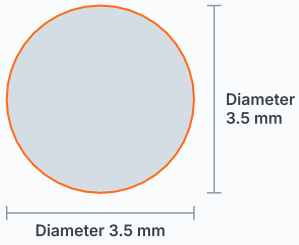
Size	Width (mm)	Thickness (mm)	Weight (kg/m)	Weight per 6 m length (kg)
60×6	60	6	**2.83**	**16.98**
60×8	60	8	**3.77**	**22.62**
60×10	60	10	**4.71**	**28.26**
60×12	60	12	**5.65**	**33.9**
60×20	60	20	**9.42**	**56.52**
65×6	65	6	**3.06**	**18.36**
65×10	65	10	**5.1**	**30.6**
65×12	65	12	**6.12**	**36.72**
75×6	75	6	**3.53**	**21.18**
75×8	75	8	**4.71**	**28.26**
75×10	75	10	**5.89**	**35.34**
75×12	75	12	**7.07**	**42.42**
75×20	75	20	**11.78**	**70.68**
75×25	75	25	**14.72**	**88.32**
80×8	80	8	**5.02**	**30.12**
80×10	80	10	**6.28**	**37.68**
80×12	80	12	**7.54**	**45.24**
90×10	90	10	**7.07**	**42.42**
90×12	90	12	**8.48**	**50.88**
100×6	100	6	**4.71**	**28.26**
100×8	100	8	**6.28**	**37.68**
100×10	100	10	**7.85**	**47.1**
100×12	100	12	**9.42**	**56.52**
100×15	100	15	**11.78**	**70.68**
100×20	100	20	**15.7**	**94.2**
100×25	100	25	**19.63**	**117.78**
120×10	120	10	**9.42**	**56.52**
120×12	120	12	**11.3**	**67.8**
125×10	125	10	**9.81**	**58.86**
125×12	125	12	**11.78**	**70.68**
130×10	130	10	**10.21**	**61.26**
150×6	150	6	**7.07**	**42.42**
150×8	150	8	**9.42**	**56.52**
150×10	150	10	**11.78**	**70.68**

Size	Width (mm)	Thickness (mm)	Weight (kg/m)	Weight per 6 m length (kg)
150×12	150	12	**14.13**	**84.78**
150×15	150	15	**17.66**	**105.96**
150×20	150	20	**23.55**	**141.3**
150×25	150	25	**29.44**	**176.64**
200×10	200	10	**15.7**	**94.2**
200×12	200	12	**18.84**	**113.04**
200×15	200	15	**23.55**	**141.3**
200×20	200	20	**31.4**	**188.4**
200×25	200	25	**39.25**	**235.5**

29 G.I. BINDING WIRE

Galvanized binding / fencing wire, soft and medium tensile, in coils.





Example: 3.5 mm

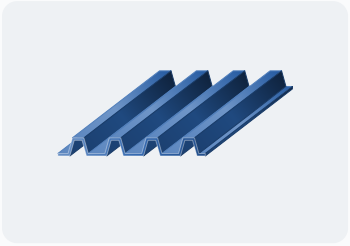
Diameter (mm)	Weight (kg per km)	Metres per kg
1.6	**15.78**	63.36
2	**24.66**	40.55
2.5	**38.53**	25.95
3	**55.49**	18.02
3.5	**75.53**	13.24
4	**98.65**	10.14
4.5	**124.85**	8.01
5	**154.13**	6.49
6	**221.95**	4.51

ROOFING & CLADDING

3 tables

30 PREPAINTED ROOFING SHEETS

Trapezoidal single-skin profile, 1050 mm cover width. Beige, Off White, Blue and Emirates Green.



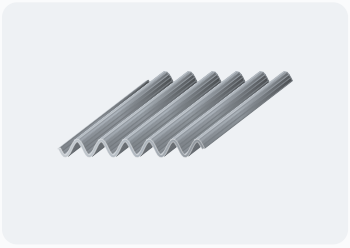


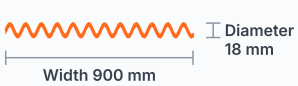
Example: Aluminium

Material	Cover width (mm)	Thickness (mm)	Weight (kg/m², approx.)	Weight per metre run (kg)
G.I.	1050	0.4	3.77	3.96
G.I.	1050	0.5	4.71	4.95
Aluminium	1050	0.5	1.62	1.7
Aluminium	1050	0.7	2.27	2.38

31 G.I. CORRUGATED SHEETS

Galvanized corrugated sheets for roofing, fencing and site hoarding.



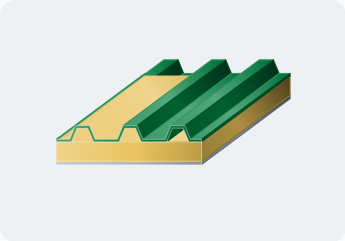


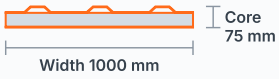
Example: 0.5 mm

Thickness (mm)	Weight (kg/m², approx.)	Weight per sheet 900 × 2438 mm (kg)	Weight per sheet 900 × 3048 mm (kg)
0.25	2.26	4.95	6.19
0.3	2.71	5.94	7.43
0.4	3.61	7.92	9.91
0.5	4.51	9.9	12.38
0.6	5.42	11.88	14.86
0.8	7.22	15.85	19.81

32 SANDWICH PANELS

Insulated PU / PIR panels with 0.5 mm galvanized or aluminium skins, 1000 mm cover width.





Example: 75 mm

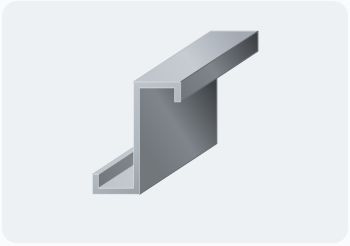
Core thickness (mm)	Skin thickness (mm)	Cover width (mm)	Weight (kg/m², approx.)
40	0.5 / 0.5	1000	**10.04**
50	0.5 / 0.5	1000	**10.44**
75	0.5 / 0.5	1000	**11.44**
100	0.5 / 0.5	1000	**12.44**
150	0.5 / 0.5	1000	**14.44**

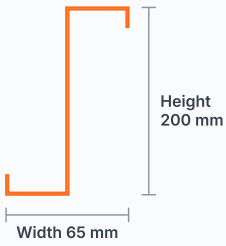
PURLINS & GRATINGS

2 tables

33 G.I. Z-PURLINS

Galvanized cold-formed Z-purlins for roofs and wall cladding. Other sizes on request.



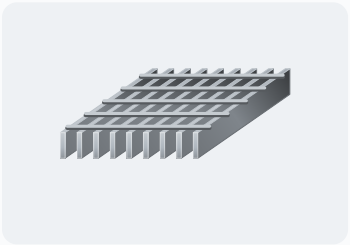


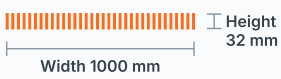
Example: Z 200×1.8

Size	Height (mm)	Flange width (mm)	Lip length (mm)	Thickness (mm)	Weight (kg/m)
Z 200×1.5	200	65	20	1.5	**4.29**
Z 200×1.8	200	65	20	1.8	**5.13**

34 STEEL GRATINGS

Plain or serrated welded gratings, 30 × 100 mm mesh, panels 1 × 6 m, black or galvanized.





Example: 32×5

Bearing bar size (mm)	Bar spacing (mm)	Weight (kg/m², approx.)	Weight per panel 1 × 6 m (kg)
25×3	30	**22.45**	**134.71**
25×5	30	**35.53**	**213.21**
30×3	30	**26.38**	**158.26**
30×5	30	**42.08**	**252.46**
32×5	30	**44.69**	**268.16**
40×3	30	**34.23**	**205.36**
40×5	30	**55.16**	**330.96**
50×5	30	**68.24**	**409.46**

SECTION 36

MATERIAL GRADES

The grades sold in the market for every product we stock, what the names mean, and which grades match across standards. Values are the standard minimums for thickness up to 16 mm and are for guidance. For an order, the mill test certificate (EN 10204 3.1) shows the actual values; ask us for it with your quote.

HOW TO READ A GRADE NAME

S **355** **J2** **H**

S	Structural steel
355	Minimum yield strength in MPa (for thickness up to 16 mm)
JR / J0 / J2	Impact tested: 27 J at +20 °C / 0 °C / −20 °C
K2	Impact tested: 40 J at −20 °C
H	Hollow section (tube)
+AR / +N	Supplied as rolled / normalized
DX51D	Galvanized steel for forming (bending, pressing)
GD	Galvanized steel for structural use
+Z275	Zinc coating of 275 g/m², both sides together
+AZ150	Aluminium-zinc (aluzinc) coating of 150 g/m²
Gr 50	ASTM grade: 50 ksi ≈ 345 MPa yield
TP316L	Stainless pipe, type 316, low carbon
H14 / T6	Aluminium temper: half hard / heat treated

EQUIVALENT GRADES

Similar, not identical: check chemistry, impact test and thickness limits before swapping one for another.

European (EN)	American (ASTM)	Japanese (JIS)	Old British (BS)
S235JR	A283 Gr C	SS330	40A
S275JR	A36	SS400	43A
S355JR	A572 Gr 50	SM490A	50B
S355J2	A572 Gr 50 + impact test	SM490B	50D
S355J2H	A500 Gr C	STKR490	—
304 (1.4301)	304	SUS304	304S31
316L (1.4404)	316L	SUS316L	316S11

STRUCTURAL SECTIONS & PLATES

Applies to: H-beams, I-beams, channels, angles, T-bars, flat bars and plates

Hot rolled carbon steel for frames and structures. The number in the grade is the minimum yield strength; the letters after it show how tough the steel is in the cold.

Grade	Standard	Min. yield strength (MPa)	Tensile strength (MPa)	Impact test (toughness)	Typical use
S235JR	EN 10025-2	235	360–510	27 J at +20 °C	Light structures, brackets, general fabrication
S275JR	EN 10025-2	275	410–560	27 J at +20 °C	The everyday structural grade: beams, frames, platforms
S275J0	EN 10025-2	275	410–560	27 J at 0 °C	Structures that need better toughness
S355JR	EN 10025-2	355	470–630	27 J at +20 °C	Higher strength: columns, heavy frames, crane beams
S355J0	EN 10025-2	355	470–630	27 J at 0 °C	Higher strength with better toughness
S355J2	EN 10025-2	355	470–630	27 J at −20 °C	Welded structures, outdoor and dynamic loads
S355K2	EN 10025-2	355	470–630	40 J at −20 °C	Heavy welded and offshore-type structures
ASTM A36	ASTM A36	250	400–550	Not required	American general structural grade: plates, angles, channels
ASTM A572 Gr 50	ASTM A572	345	≥ 450	Not required	American high-strength grade for beams and plates
ASTM A992	ASTM A992	345–450	≥ 450	Not required	Standard grade for American W-shape beams
SS400	JIS G3101	245	400–510	Not required	Japanese general structural grade (JIS beams, channels)
SM490A	JIS G3106	325	490–610	Not required	Japanese welded structural grade

HOLLOW SECTIONS (SHS / RHS)

Applies to: Square, rectangular and round structural tubes

The "H" at the end means hollow section. EN 10219 tubes are cold formed (the most common); EN 10210 tubes are hot finished.

Grade	Standard	Min. yield strength (MPa)	Tensile strength (MPa)	Impact test (toughness)	Typical use
S235JRH	EN 10219	235	360–510	27 J at +20 °C	Light frames, gates, fences, furniture
S275J0H	EN 10219	275	410–560	27 J at 0 °C	General structural tubes
S355J2H	EN 10219 / EN 10210	355	470–630	27 J at −20 °C	Trusses, columns, canopies, welded frames
ASTM A500 Gr B	ASTM A500	315	≥ 400	Not required	American structural tubing (square and rectangular)
ASTM A500 Gr C	ASTM A500	345	≥ 425	Not required	Higher-strength American structural tubing

PIPES & TUBES

Applies to: MS pipes, G.I. pipes, line pipe, scaffolding tubes and stainless pipes

Pipe grades are chosen by service: water and structure, high temperature and pressure, oil and gas, or corrosion.

Grade	Standard	Min. yield strength (MPa)	Tensile strength (MPa)	Made as	Typical use
ASTM A53 Gr B	ASTM A53	240	≥ 415	Seamless or ERW	Water, air, gas and structural piping
ASTM A106 Gr B	ASTM A106	240	≥ 415	Seamless	High-temperature and pressure service
API 5L Gr B	API 5L	245	≥ 415	Seamless or ERW	Line pipe for oil, gas and water
S195T	EN 10255 (BS 1387)	195	320–520	ERW, black or galvanized	Plumbing, water lines, fencing (Light, Medium, Heavy)
S235GT	EN 39	235	340–520	ERW, galvanized	Scaffolding tubes, 48.3 mm
TP304 / TP304L	ASTM A312	205 / 170	≥ 515 / ≥ 485	Seamless or welded	Stainless piping, general corrosion resistance
TP316 / TP316L	ASTM A312	205 / 170	≥ 515 / ≥ 485	Seamless or welded	Stainless piping for chemicals, sea water and coastal sites

STAINLESS STEEL

Applies to: Stainless sheets, plates and pipes

The grade decides how well it resists rust. 304 suits most indoor and city work; 316 contains molybdenum for sea water, coastal air and chemicals. "L" means low carbon, better for heavy welding.

Grade	Standard	Min. yield strength (MPa)	Tensile strength (MPa)	Type	Typical use
304 (1.4301)	ASTM A240 / EN 10088-2	205	≥ 515	Austenitic, non-magnetic	The most common stainless: kitchens, handrails, cladding, tanks
304L (1.4307)	ASTM A240 / EN 10088-2	170	≥ 485	Austenitic, low carbon	Heavily welded 304 work
316 (1.4401)	ASTM A240 / EN 10088-2	205	≥ 515	Austenitic, with molybdenum	Coastal, marine and chemical environments
316L (1.4404)	ASTM A240 / EN 10088-2	170	≥ 485	Austenitic, low carbon	Welded marine, chemical and food plant work
430 (1.4016)	ASTM A240 / EN 10088-2	205	≥ 450	Ferritic, magnetic	Indoor appliances, trims and decoration
201	ASTM A240	260	≥ 515	Austenitic, low nickel	Lower-cost indoor decorative use; not for wet or coastal areas

GALVANIZED & CARBON STEEL SHEETS

Applies to: G.I. sheets, corrugated sheets, HR / CR sheets and coils

"DX" grades are for bending and forming; "GD" grades are structural (with a guaranteed strength). "Z275" is the zinc coating weight in g/m², both sides together: more zinc, longer life outdoors.

Grade	Standard	Type	Min. yield strength (MPa)	Tensile strength (MPa)	Typical use
DX51D+Z	EN 10346	Galvanized, for forming	Not specified	270–500	General G.I. sheet: ducting, roofing, cladding, bending
SGCC	JIS G3302	Galvanized, commercial	Not specified	≥ 270	Asian equivalent of DX51D
S250GD+Z	EN 10346	Galvanized, structural	250	≥ 330	Decking, light frames, structural sheet
S350GD+Z	EN 10346	Galvanized, structural	350	≥ 420	Purlins, roof structures, decking
DD11 / SPHC	EN 10111 / JIS G3131	Hot rolled, for forming	170–360	≤ 440	Hot rolled sheet for bending and general fabrication
DC01 / SPCC	EN 10130 / JIS G3141	Cold rolled, commercial	140–280	270–410	Cold rolled sheet: cabinets, panels, painted parts

ZINC COATING WEIGHTS

Coating	Zinc (g/m², both sides)	Suits
Z120	120	Indoor use, ducting
Z180	180	General use, sheltered outdoor
Z275	275	Outdoor, roofing, structural and coastal sites
AZ150 (aluzinc)	150 (aluminium-zinc)	Roofing and cladding with long life in heat

BARS & SHAFTING

Applies to: Round, square and flat bars, bright bars and shafting

Structural grades are for fabrication and welding. Engineering grades (C45 / EN8, 42CrMo4 / EN19) are for machined parts and shafts that need strength and wear resistance.

Grade	Standard	Min. yield strength (MPa)	Tensile strength (MPa)	Condition	Typical use
S275JR / S355JR	EN 10025-2	275 / 355	410–560 / 470–630	As rolled	Fabrication, brackets, base plates, frames
ASTM A36	ASTM A36	250	400–550	As rolled	General bars to American standard
C45 (EN8)	EN 10083-2 / BS 970	305	≥ 580	Normalized	Shafts, pins, bolts, machined parts
42CrMo4 (EN19)	EN 10083-3 / BS 970	650	900–1100	Hardened and tempered	Heavy-duty shafts, gears, high-strength bolts

ALUMINIUM

Applies to: Aluminium sheets, plates, chequered plates, sections and prepainted sheets

The first number is the alloy series; the letters after it are the temper: H = work-hardened (H14 half hard), T = heat treated (T6 fully hardened).

Grade	Standard	Min. yield strength (MPa)	Tensile strength (MPa)	Form	Typical use
1050 H14	EN 485-2	85	105–145	Sheet	Pure aluminium: signage, insulation cladding
3003 H14	EN 485-2	125	145–195	Sheet	Roofing, prepainted sheet, ducting
5052 H32	EN 485-2	160	210–260	Sheet, chequered plate	Marine use, tanks, chequered flooring
5083 H111	EN 485-2	125	275–350	Plate	Boats, marine and heavy-duty plate
6061 T6	EN 755-2	240	≥ 260	Extrusion, plate	Structural profiles and machined parts
6063 T5 / T6	EN 755-2	110 / 170	≥ 160 / ≥ 215	Extrusion	Windows, doors, architectural sections

GRATINGS, PURLINS, ROOFING & WIRE

Applies to: G.I. gratings, Z-purlins, prepainted roofing, sandwich panels, G.I. wire, chain link and welded mesh

These products are made from the grades above and then galvanized, painted or formed. This is what they are usually made of.

Product	Usual material	Standard	Notes
G.I. gratings	S235JR / ASTM A36 bars	EN ISO 1461 / ASTM A123	Hot-dip galvanized after welding
Z-purlins	S350GD+Z275 or S450GD+Z275	EN 10346	Cold formed from galvanized structural coil
Prepainted roofing (PPGI)	DX51D+Z or S250GD+Z, painted	EN 10169	Polyester paint in RAL colours on zinc-coated steel
Prepainted roofing (PPGL)	Aluzinc AZ150, painted	EN 10346 / EN 10169	Longer life in heat and coastal air
Sandwich panels	PPGI skins with PU, PIR or rock wool core	EN 14509	Insulated roof and wall panels
G.I. wire	Low carbon wire, galvanized	ASTM A641 / EN 10244-2	Binding and fencing wire, soft or medium tensile
Chain link fence	G.I. wire, plain or PVC coated	ASTM A392 / ASTM F668	PVC coating adds colour and extra protection
Welded wire mesh	Low carbon G.I. wire, welded	EN 10223-4	Galvanized before or after welding; panels and rolls

SECTION 37

WEIGHT FORMULAS & CONVERSIONS

PLATE / SHEET

kg = L × W × T × 7.85

L, W in metres; T in mm. Per m²: T × 7.85

CHEQUERED PLATE

4 × 8 ft: plain + 5 kg · 1500 × 6000: plain + 15 kg

Plain sheet = W × L × T × 7.85 (W, L in metres; T in mm). 4 × 8 ft = 1.219 × 2.438 m

ROUND BAR

kg/m = D² × 0.00617

D in mm

SQUARE BAR

kg/m = A² × 0.00785

A in mm

FLAT BAR

kg/m = W × T × 0.00785

W, T in mm

PIPE

kg/m = (OD − t) × t × 0.02466

OD, t in mm

SHS / RHS

kg/m = (2t(A + B) − 4t²) × 0.00785

A, B, t in mm (sharp corners)

EQUAL ANGLE

kg/m = (2A − t) × t × 0.00785

A, t in mm

OTHER METALS

× 1.019 stainless · × 0.344 aluminium

Multiply the mild steel weight

Material	Density kg/m³
Mild steel / G.I.	7,850
Stainless steel 304 / 316L	8,000
Aluminium	2,700

Unit	Equals
1 inch	25.4 mm
1 foot	304.8 mm
1 metric ton	1,000 kg
1 kg/m	0.672 lb/ft
1 m²	10.764 ft²

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VISIT OUR YARD
Ath Thiqa 8th Street, near Musaffah City Hypermarket, Musaffah Industrial M17, Abu Dhabi

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